

2021 Soybeans Top 30 Performance Summary for Minnesota South Central [MNSC]

Early-Season Test

Maturity Group 1.5 - 1.8

S2021MNSCa

Top 30 of 52

For Gross Income (Sorted by Yield), (9) Replication Average

Company/Brand	Product/Brand	Technol.†	RM	SCN	Yield Bu/A ↓	Protein (%)	Oil (%)	Moisture %	Lodging %	Gross Income \$/Acre	Rank	Madison Lake REJECTED	Nerstrand	Wabasso	Winthrop
PIONEER	P18A33X §	RRX	1.8	NA	68.4	33.0	20.8	12.1	0	854	1	63.8	73.8	58.0	73.2
HEFTY	H18XF2	RXF	1.8	NA	67.9	32.5	20.1	12.3	0	849	2	74.0	76.7	51.9	75.2
HEFTY	H17XF1	RXF	1.7	NA	66.1	33.1	19.7	12.2	1	826	3	69.4	78.4	52.7	67.2
GENESIS	G1760E	E3	1.7	R	65.6	34.2	19.5	12.1	1	821	4	63.2	74.7	49.5	72.7
LATHAM	L 1784 XF	RXF	1.7	R	64.5	33.0	19.7	12.4	0	806	5	60.5	75.1	53.0	65.4
LG SEEDS	LGS1769XF GC	RXF	1.7	R	64.5	34.1	19.3	12.1	0	805	6	61.6	72.6	51.0	69.8
LOYAL	L1740E	E3	1.7	R	64.1	33.7	19.7	12.5	2	800	7	61.6	77.0	50.6	64.5
NK BRAND	NK17-M2XF	RXF	1.7	R	64.0	34.2	19.2	12.3	1	799	9	61.6	78.9	46.9	66.0
ASGROW	AG18XF1 §	RXF	1.8	R	64.0	32.9	19.5	12.3	0	800	8	51.6	75.6	50.1	66.2
XITAVO	XO 1632E	E3	1.6	R	63.8	33.6	19.4	12.5	0	798	10	62.3	77.5	44.8	69.1
STINE	17EE32 §	E3	1.7	R	63.5	34.6	19.1	12.5	0	793	11	61.6	78.0	52.3	60.1
DAIRYLAND	DSR-1820E	E3	1.8	R	63.4	33.9	19.8	12.2	0	793	12	61.6	78.7	47.5	64.0
ANDERSON	A151E3	E3	1.5	NA	63.3	33.4	19.7	12.3	0	792	13	71.6	73.0	44.6	72.5
APEX	AE1720	E3	1.7	R	63.3	34.3	19.4	12.4	0	791	14	71.6	75.6	44.4	69.8
ANDERSON	A1821XF	RXF	1.8	NA	63.1	32.7	19.5	12.6	0	788	15	61.6	72.5	54.1	62.7
ANDERSON	159RXT	RRX	1.5	MR	63.1	34.5	18.8	12.0	0	788	16	61.6	74.3	46.5	68.4
ASGROW	AG15XF2 §	RXF	1.5	R	62.2	32.2	20.3	12.0	0	778	17	61.6	69.7	48.0	69.0
GENESIS	G1680GL	LLGT27	1.6	R	61.9	33.3	20.2	12.5	0	774	18	61.6	75.5	43.5	66.8
GENESIS	G1560E	E3	1.5	R	61.7	34.1	19.4	12.6	0	772	20	61.6	74.3	42.4	68.5
ZINESTO	Z1702E	E3	1.7	NA	61.7	34.0	19.6	12.6	2	771	21	61.6	75.6	47.6	61.9
GOLD COUNTRY	1609X	RRX	1.6	R	61.6	34.3	19.6	12.3	0	770	22	61.6	74.0	45.5	65.3
HEFTY	H15XF2	RXF	1.5	NA	61.6	33.8	19.5	12.0	0	769	23	61.6	74.9	47.4	62.4
XITAVO	XO 1761E	E3	1.7	R	61.1	34.0	19.7	11.9	0	764	24	61.6	76.7	41.7	65.0
APEX	AE1520	E3	1.5	R	60.9	33.9	19.6	12.6	0	761	25	61.6	70.6	43.7	68.3
HEFTY	H16XF2	RXF	1.6	NA	60.9	34.5	19.2	12.2	0	760	26	61.6	78.5	51.2	52.8
ZINESTO	Z1802E	E3	1.8	NA	60.7	33.4	19.9	12.5	0	759	27	51.6	71.4	47.6	63.0
GOLDEN HARVEST	GH1802E3	E3	1.8	R	60.7	34.1	19.6	12.0	1	758	28	73.1	71.5	43.4	67.0
LOYAL	L1540E	E3	1.5	R	60.5	34.5	19.7	12.4	0	756	29	64.8	75.5	41.1	64.8
DAHLMAN	6815XN GC	RRX	1.5	R	60.3	34.4	19.9	12.3	0	754	30	60.7	70.2	47.0	63.7
DAIRYLAND	DSR-1707E	E3	1.7	R	60.2	33.8	20.4	12.3	0	752	31	64.2	70.9	42.4	67.3
DAHLMAN	7218XF CK	RXF	1.8	NA	61.9	32.5	19.5	12.3	2	774	19	64.4	77.0	55.0	53.8
					Averages =	60.9	33.8	19.7	12.3	0	762	64.2	72.9	46.1	63.9
					LSD (0.10) =	4.7	0.7	0.4	ns	1		8.3	4.7	4.8	7.5
					LSD (0.25) =	2.4	0.4	0.2	ns	1		4.3	2.4	2.5	3.9

Yield variability due to weed pressure

Mark Querna

Mark Querna

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Prev. years average yield for region: 55.47 bu/a, 19 yr(s)

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

† 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 *There were 2 reps for the site.

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2021 Soybeans Top 30 Performance Summary for Minnesota South Central [MNSC]

Full-Season Test

Maturity Group 1.9 - 2.2

S2021MNSCb

Top 30 of 54

For Gross Income (Sorted by Yield), (9) Replication Average

Company/Brand	Product/Brand	Technol.†	RM	SCN	Yield Bu/A ↓	Protein (%)	Oil (%)	Moisture %	Lodging %	Gross Income \$/Acre	Rank	Madison Lake REJECTED	Nerstrand	Wabasso	Winthrop
DYNA-GRO	S21XF61 ↗	RXF	2.1	R	67.2	33.9	19.1	12.8	2	839	1	55.5	84.0	45.5	72.1
ANDERSON	217RXT ↗	RRX	2.0	MR	67.0	34.2	19.2	11.9	1	838	2	61.4	78.1	53.3	69.8
STINE	21EE62 § ↗	E3	2.1	R	66.5	34.0	18.9	13.2	1	830	3	61.8	72.3	60.5	66.6
PIONEER	P21A28X § ↗	RRX	2.1	R	64.9	33.6	19.9	11.9	0	811	5	63.6	77.0	53.7	63.9
HEFTY	H20X7 ↗	RRX	2.0	MR	64.7	34.6	19.6	12.2	4	809	6	54.9	72.7	47.2	74.3
HEFTY	H20XF1 ↗	RXF	2.0	NA	63.7	35.1	18.7	12.8	0	795	7	48.8	80.2	44.7	66.1
INNOTECH	IS2089E3 ↗	E3	2.0	MR	63.3	35.1	18.9	11.9	1	792	8	50.8	74.4	44.8	70.8
GOLDEN HARVEST	GH2292E3 ↗	E3	2.2	MR	63.2	33.7	19.1	12.0	0	790	9	50.8	76.8	45.8	67.0
ANDERSON	A200E3 ↗	E3	2.0	NA	62.9	33.4	19.4	12.2	1	787	10	50.8	71.5	46.3	71.0
FEDERAL	F2121N ↗	LLGT27	2.1	R	62.7	32.3	19.1	12.6	1	783	11	60.3	77.3	48.1	62.5
LOYAL	L2240E ↗	E3	2.2	R	62.4	33.1	19.4	12.5	2	780	12	50.8	74.5	49.6	63.0
NK BRAND	NK22-C4E3 ↗	E3	2.2	R	62.3	33.7	19.8	12.0	0	779	13	50.8	77.7	49.6	59.6
ZINESTO	Z2202E ↗	E3	2.2	NA	62.1	33.4	19.4	12.5	0	777	14	50.8	77.2	50.5	58.7
LATHAM	L 2184 R2X ↗	RRX	2.1	R	62.1	35.0	19.0	11.9	5	776	15	60.3	73.4	51.2	61.7
LG SEEDS	LGS2025XF GC ↗	RXF	2.0	R	62.1	34.8	19.0	12.8	0	776	16	57.0	80.2	48.4	57.7
ASGROW	AG21XF0 § ↗	RXF	2.1	R	62.0	34.6	19.2	12.6	1	775	17	50.8	75.0	41.7	69.2
GOLDEN HARVEST	GH2102XF ↗	RXF	2.1	MR	61.7	34.6	18.9	12.3	2	771	18	50.8	78.2	43.8	63.0
ZINESTO	Z1902E ↗	E3	1.9	NA	61.6	33.0	19.7	12.5	0	770	19	50.8	81.0	47.3	56.6
ANDERSON	A2121XF ↗	RXF	2.0	NA	61.5	35.2	19.6	12.3	2	769	20	50.8	69.2	52.6	62.7
GENESIS	G2260E ↗	E3	2.2	R	61.1	33.3	19.7	12.5	0	764	21	60.3	78.1	44.8	60.4
APEX	AE2220 ↗	E3	2.2	R	60.9	33.1	19.5	12.8	0	762	22	50.8	75.2	47.8	59.8
DAIRYLAND	DSR-2040E ↗	E3	2.0	R	60.8	32.9	19.7	12.1	0	760	23	50.8	71.5	44.4	66.6
RENK	RS212NXF ↗	RXF	2.1	R	60.5	34.8	19.3	12.2	1	757	24	50.8	73.1	49.3	59.2
PIONEER	P20T64E GC ↗	E3	2.0	R	60.5	33.0	19.6	12.3	0	757	25	48.8	79.5	42.0	60.1
RENK	RS219NX ↗	RRX	2.1	R	60.5	34.4	19.1	12.1	0	756	26	50.8	79.6	39.5	62.4
GOLD COUNTRY	2250XF ↗	RXF	2.2	R	60.4	33.2	19.2	12.8	0	755	27	50.2	75.4	42.5	63.3
LOYAL	L2130E ↗	E3	2.1	R	60.2	33.9	19.5	12.2	3	754	28	50.9	71.1	46.2	63.5
STINE	20EE23 § ↗	E3	2.0	R	60.2	34.5	19.4	12.5	3	752	29	51.1	71.1	49.3	60.1
NK BRAND	NK21-H4XF § ↗	RXF	2.1	MR	60.1	33.9	19.5	12.1	10	751	30	55.0	64.8	45.8	69.7
APEX	AE2110 ↗	E3	2.1	R	60.0	33.1	19.8	12.3	1	750	31	55.4	75.2	40.5	64.4
DAHLMAN	7218XF CK	RXF	1.8	NA	65.9	32.5	19.6	12.6	2	823	4	63.8	77.1	52.7	67.8
					Averages =	60.5	33.8	19.4	12.4	2	756	55.5	72.4	46.4	62.7
					LSD (0.10) =	5.1	0.9	0.5	ns	4		8.2	4.5	4.9	5.8
					LSD (0.25) =	2.7	0.5	0.2	ns	2		4.3	2.4	2.6	3.0

Yield variability due to weed pressure

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Prev. years average yield for region: 55.47 bu/a, 19 yr(s)

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

† 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 *There were 2 reps for the site.

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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

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
Dahlgan	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

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	Cruisermass® 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
SF1	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.