

# 2021 Soybeans Top 30 Performance Summary for Minnesota South [MNSO]

## Early-Season Test

### 1.6 - 1.9 Day CRM

S2021MNSOa

Top 30 of 53

For Gross Income (Sorted by Yield), (6) Replication Average

Company/Brand	Product/Brand	Technol.†	RM	SCN	Yield Bu/A ↓	Protein (%)	Oil (%)	Moisture %	Lodging %	Gross Income \$/Acre	Rank	Easton REJECTED	Kasson	Lamberton	New Richland REJECTED
APEX	AE1930 ↗	E3	1.9	R	64.4			10.9	0	805	1	70.9	75.5	53.3	65.6
PIONEER	P18A33X § ↗	RRX	1.8	NA	61.7			11.0	1	772	2	76.7	73.2	50.3	72.8
XITAVO	XO 1822E ↗	E3	1.8	R	60.6			11.3	0	757	3	66.4	68.2	53.0	66.2
ZINESTO	Z1702E ↗	E3	1.7	NA	59.9			11.2	0	749	4	69.5	69.5	50.3	66.7
STINE	17EE32 § ↗	E3	1.7	R	59.7			11.2	0	746	5	63.5	63.5	55.8	64.4
APEX	AE1720 ↗	E3	1.7	R	59.6			11.0	1	745	6	70.0	70.0	49.2	64.4
NK BRAND	NK19-Y5E3 ↗	E3	1.9	R	59.3			11.4	1	741	7	69.2	69.2	49.3	64.4
LOYAL	L1740E ↗	E3	1.7	R	59.1			10.9	0	739	8	67.8	67.8	50.3	64.4
LOYAL	L1950E ↗	E3	1.9	R	58.6			11.1	0	733	9	69.5	69.5	47.7	64.4
HEFTY	H18XF2 ↗	RXF	1.8	NA	58.2			10.8	0	727	10	68.0	68.0	48.3	64.4
LATHAM	L 1648 LLGT27 ↗	LLGT27	1.6	R	58.1			10.9	0	726	11	68.0	68.0	48.2	64.4
DAHLMAN	1215E3N GC ↗	E3	1.5	NA	57.9			11.2	1	724	12	66.2	66.2	49.5	64.4
GENESIS	G1760E ↗	E3	1.7	R	57.9			11.1	1	724	13	67.0	67.0	48.7	64.4
HEFTY	H16X1 ↗	RRX	1.6	R	57.7			10.9	0	721	14	66.3	66.3	49.0	64.4
APEX	AE1920 ↗	E3	1.9	R	57.5			11.1	0	718	15	67.3	67.3	47.6	64.4
GOLDEN HARVEST	GH1762XF § ↗	RXF	1.7	MR	57.3			10.9	0	716	16	64.9	64.9	49.6	64.4
LATHAM	L 1784 XF ↗	RXF	1.7	R	57.1			11.4	0	714	17	61.5	61.5	52.7	64.4
DAIRYLAND	DSR-2030E ↗	E3	1.9	R	56.9			10.9	0	712	18	61.9	61.9	51.9	64.4
ANDERSON	A1821XF ↗	RXF	1.8	NA	56.9			11.3	0	712	19	64.1	64.1	49.8	64.4
ZINESTO	Z1902E ↗	E3	1.9	NA	56.8			11.1	0	709	20	66.9	66.9	46.6	64.4
NK BRAND	NK17-M2XF ↗	RXF	1.7	R	56.5			10.4	0	706	21	61.6	61.6	51.3	64.4
FEDERAL	F1920N ↗	RXF	1.9	R	56.5			10.6	2	706	22	63.9	63.9	49.0	64.4
NK BRAND	NK18-J7E3 § ↗	E3	1.8	MR	56.4			10.9	0	705	23	59.4	59.4	53.4	64.4
GENESIS	G1960E ↗	E3	1.9	R	56.3			11.2	3	704	24	67.9	67.9	44.6	64.4
GENESIS	G1950E ↗	E3	1.9	R	55.9			11.0	0	698	25	64.2	64.2	47.5	64.4
ASGROW	AG18XF1 § ↗	RXF	1.8	R	55.7			11.0	0	696	26	57.3	57.3	54.1	64.4
DAHLMAN	6815XN GC ↗	RRX	1.5	R	55.3			10.2	0	692	27	63.1	63.1	47.5	64.4
GOLD COUNTRY	1531XF ↗	RXF	1.5	R	55.0			11.0	4	689	28	67.8	67.8	48.6	64.4
ZINESTO	Z1802E ↗	E3	1.8	NA	55.0			11.0	0	688	29	68.1	68.1	49.2	64.4
DYNA-GRO	S17XF02 ↗	RXF	1.7	MR	54.8			11.0	0	685	30	68.4	68.4	47.0	64.4
DAHLMAN	1120E3N CK	E3	2.0	NA	54.1			11.0	0	677	34	68.6	68.6	46.7	64.4
					<b>Averages =</b>	<b>55.5</b>	<b>na</b>	<b>na</b>	<b>11.0</b>	<b>1</b>	<b>694</b>	<b>67.2</b>	<b>62.4</b>	<b>48.5</b>	<b>67.2</b>
					LSD (0.10) =	ns	na	na	ns	ns		4.4	6.8	4.3	4.7
					LSD (0.25) =	ns	na	na	ns	ns		2.3	3.5	2.3	2.5

Not reported due to dicamba drift damage

Not reported due to dicamba drift damage



Mark Querna

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Prev. years average yield for region: 57.58 bu/a, 19 yr(s)

#### Yield & Income Factors:

Base Moisture = 13.0%

Shrink = 1.3

Drying = \$0.03

Prices: GMO = \$12.50; non-GMO = \$14.50

† 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](http://www.firstseedtests.com) \*There were 2 reps for the site.

Additional reports available at [www.firstseedtests.com](http://www.firstseedtests.com)

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Report Date: 10/12/2021

# 2021 Soybeans Top 30 Performance Summary for Minnesota South [MNSO]

## Full-Season Test

### 2.0 - 2.3 Day CRM

S2021MNSOb

Top 30 of 54

For Gross Income (Sorted by Yield), (3) Replication Average

Company/Brand	Product/Brand	Technol.†	RM	SCN	Yield Bu/A ↓	Protein (%)	Oil (%)	Moisture %	Lodging %	Gross Income \$/Acre	Rank	Easton REJECTED	Kasson	Lamberton REJECTED	New Richland REJECTED
PIONEER	P21A28X §	RRX	2.1	R	70.0			8.9	0	875	1	68.9	70.0	54.3	66.0
NK BRAND	NK21-H4XF §	RXF	2.1	MR	68.7			9.3	0	859	2	77.2	68.7	53.9	62.5
FEDERAL	F2320N	RXF	2.3	R	68.0			12.2	0	850	3	72.8	68.0	49.2	70.7
STINE	21EE62 §	E3	2.1	R	67.5			8.7	0	844	4	67.5	67.5	52.2	63.3
GENESIS	G2060E	E3	2.0	R	67.3			10.2	0	841	5	67.3	67.3	53.2	62.2
APEX	AE2220	E3	2.2	R	66.5			10.5	0	831	6	66.5	66.5	53.3	62.2
XITAVO	XO 2282E	E3	2.2	R	66.2			11.3	0	828	7	66.2	66.2	52.2	61.9
LOYAL	L2240E	E3	2.2	R	66.0			10.5	0	825	8	66.0	66.0	49.9	61.4
DYNA-GRO	S21EN81	E3	2.1	R	65.7			10.0	0	821	9	65.7	65.7	53.6	61.9
PIONEER	P23A15X GC	RRX	2.3	R	65.4			10.1	0	818	10	65.4	65.4	53.0	61.0
ZINESTO	Z2302SE	E3,ST	2.3	NA	65.4			10.9	0	818	11	65.4	65.4	53.0	61.0
FEDERAL	F2210N	RXF	2.2	R	65.2			10.6	0	815	12	65.2	65.2	53.7	61.1
ZINESTO	Z2002E	E3	2.0	NA	65.0			9.3	0	812	13	65.0	65.0	53.8	61.5
RENK	RS212NXF	RXF	2.1	R	65.0			10.0	1	812	14	65.0	65.0	53.3	61.5
NK BRAND	NK22-C4E3	E3	2.2	R	64.9			9.2	0	811	15	64.9	64.9	53.1	61.1
LATHAM	L 2379 E3	E3	2.3	R	64.8			10.6	0	810	16	64.8	64.8	49.9	59.9
ZINESTO	Z2101E	E3	2.1	R	64.3			9.9	0	804	17	64.3	64.3	53.8	61.6
LOYAL	L2040E	E3	2.0	R	63.9			10.3	0	799	18	63.9	63.9	53.0	61.6
XITAVO	XO 2181E	E3	2.1	R	63.6			9.6	0	795	19	63.6	63.6	53.6	61.7
STINE	20EE23 §	E3	2.0	R	62.5			9.4	0	781	20	62.5	62.5	53.9	61.9
GENESIS	G2260E	E3	2.2	R	62.4			9.8	0	780	21	62.4	62.4	53.6	61.6
ASGROW	AG22XF2 §	RXF	2.2	R	62.3			9.5	0	779	22	62.3	62.3	53.1	61.0
APEX	AE2020	E3	2.0	R	62.3			9.8	0	779	23	62.3	62.3	53.3	61.0
DAIRYLAND	DSR-2112E	E3	2.1	R	62.1			11.0	0	776	24	62.1	62.1	53.5	61.8
LATHAM	L 2295 R2X	RRX	2.2	R	62.0			9.4	0	775	25	62.0	62.0	53.2	61.7
GENESIS	G2150E	E3	2.1	R	61.3			10.4	0	766	26	61.3	61.3	49.6	61.7
DYNA-GRO	S21XF61	RXF	2.1	R	60.8			10.9	0	760	27	60.8	60.8	52.0	61.6
GOLD COUNTRY	2250XF	RXF	2.2	R	60.2			11.3	0	752	28	74.9	60.2	55.4	65.3
ANDERSON	217RXT	RRX	2.0	MR	60.1			8.2	0	751	29	71.9	60.1	54.7	72.2
ANDERSON	A200E3	E3	2.0	NA	60.1			9.8	0	751	30	66.8	60.1	51.4	67.3
DAHLMAN	1120E3N CK	E3	2.0	NA	53.5			10.6	0	669	51	68.0	53.5	46.5	64.5

Not reported due to dicamba drift damage

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Not reported due to dicamba drift damage

*Mark Querna*

<b>Averages =</b>	<b>60.9</b>	na	na	<b>10.1</b>	<b>0</b>	<b>761</b>	<b>68.8</b>	<b>60.8</b>	<b>48.4</b>	<b>64.6</b>
LSD (0.10) =		na	na	ns	ns		4.5	4.6	3.8	4.0
LSD (0.25) =		na	na	ns	ns		2.3	2.4	2.0	2.1

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Prev. years average yield for region: 57.58 bu/a, 19 yr(s)

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

† 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](http://www.firstseedtests.com) \*There were 2 reps for the site.

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## 2021 Soybeans - Minnesota South [ MNSO ]

### Early-Season Test Products (53 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Anderson	A180E3	E3	NA	1.8	Untreated
Anderson	A1821XF	RXF	NA	1.8	Untreated
Apex	AE1720	E3	R	1.7	CMBV,SA
Apex	AE1910	E3	R	1.9	CMBV,SA
Apex	AE1920	E3	R	1.9	CMBV,SA
Apex	AE1930	E3	R	1.9	CMBV,SA
Asgrow	AG18XF1 §	RXF	R	1.8	Untreated
Credenz	CZ 1660GTLL	LLGT27	MR	1.6	PV,IL,OB
Dahlman	1120E3N CK	E3	NA	2.0	IS
Dahlman	1215E3N GC	E3	NA	1.5	Untreated
Dahlman	6815XN GC	RRX	R	1.5	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
Dairyland	DSR-2030E	E3	R	1.9	Lum,IL
Dyna-Gro	S17XF02	RXF	MR	1.7	EQV,SA
Dyna-Gro	S18EN52	E3	MR	1.8	EQV,SA
Federal	F1909N	LLGT27	R	1.9	MAG
Federal	F1920N	RXF	R	1.9	MAG
Genesis	G1680GL	LLGT27	R	1.6	CMBV,SA
Genesis	G1760E	E3	R	1.7	CMBV,SA
Genesis	G1950E	E3	R	1.9	CMBV,SA
Genesis	G1960E	E3	R	1.9	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	H16X1	RRX	R	1.6	DST4,SA
Hefty	H16XF2	RXF	NA	1.6	DST4,SA
Hefty	H17XF1	RXF	NA	1.7	DST4,SA
Hefty	H18XF2	RXF	NA	1.8	DST4,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
Latham	L 1995 E3	E3	R	1.9	SS+,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
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
NK Brand	NK19-Y5E3	E3	R	1.9	CMBV,SA

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
NuTech	18N02E	E3	R	1.8	Lum,Lu,IL
Pioneer	P15A63X §	RRX	NA	1.5	Untreated
Pioneer	P18A33X §	RRX	NA	1.8	Lum,Lu
Stine	17EE32 §	E3	R	1.7	SF1
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	Z1702E	E3	NA	1.7	DST4,SA
Zinesto	Z1801E	E3	R	1.8	DST4,SA
Zinesto	Z1802E	E3	NA	1.8	DST4,SA
Zinesto	Z1902E	E3	NA	1.9	DST5

\* 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 [ MNSO ]

### 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	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
Asgrow	AG22XF2 §	RXF	R	2.2	ACi,IL
Credenz	CZ 2121GTLL	LLGT27	MR	2.1	PV,IL,OB
Dahlman	1120E3N CK	E3	NA	2.0	IS
Dahlman	7220XF GC	RXF	NA	2.0	IS
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	S21EN81	E3	R	2.1	EQV,SA
Dyna-Gro	S21XF61	RXF	R	2.1	EQV,SA
Dyna-Gro	S21XF72	RXF	R	2.1	EQV,SA
Federal	F2210N	RXF	R	2.2	MAG
Federal	F2320N	RXF	R	2.3	MAG
Genesis	G2060E	E3	R	2.0	CMBV,SA
Genesis	G2150E	E3	R	2.1	CMBV,SA
Genesis	G2190GL	LLGT27	R	2.1	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	H20XF1	RXF	NA	2.0	DST4,SA
Hefty	H20XF2	RXF	NA	2.0	DST4,SA
Hefty	H21XF2	RXF	NA	2.1	DST4,SA
Hefty	H23XF1	RXF	NA	2.3	DST4,SA
Latham	L 2049 E3	E3	R	2.0	SS+,SA
Latham	L 2193 E3	E3	R	2.1	SS+,SA
Latham	L 2295 R2X	RRX	R	2.2	SS+,SA
Latham	L 2379 E3	E3	R	2.3	SS+,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	NK21-H4XF §	RXF	MR	2.1	CMBV,SA
NK Brand	NK22-C4E3	E3	R	2.2	CMBV,SA
NuTech	20N04E	E3	R	2.0	Lum,Lu,IL
NuTech	21N06E	E3	R	2.1	Lum,Lu,IL
Pioneer	P20T64E GC	E3	R	2.0	Lum,Lu

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Pioneer	P21A28X §	RRX	R	2.1	Lum,Lu
Pioneer	P23A15X GC	RRX	R	2.3	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
Xitavo	XO 2282E	E3	R	2.2	PV,IL,OB
Zinesto	Z2002E	E3	NA	2.0	DST4,SA
Zinesto	Z2101E	E3	R	2.1	DST4,SA
Zinesto	Z2202E	E3	NA	2.2	DST4,SA
Zinesto	Z2302SE	E3,ST	NA	2.3	DST5

\* 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

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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

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S	susceptible
MR	moderate resistance
R	resistant
n/a	info unavailable

### Soybeans Technologies

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E3	Enlist™ E3
LLGT27	LibertyLink® GT27®
RRX	Roundup Ready 2 Xtend®
RXF	Roundup Ready 2 XtendFlex®
ST	Sulfonylurea tolerant

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### Soybeans Seed Treatments\*

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NA	Not Available
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
CMBV,SA	Cruisermass® Beans, Vibrance®, Saltro®
DST4,SA	Dominance 4 ST,Saltro®
DST5	Dominance 5 ST
EcTC,SA	Eclipse US Total Coverage Trio IM, N-Force, Saltro®
EQV,SA	Equity VIP, Saltro®
IS	Intego® Suite
Lum,IL	LumiGEN™ plus ILeVO
Lum,Lu	LumiGEN™, Lumisena™
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
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

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\* Seed treatments may include unspecified plant health promoting components.