

2020 Soybeans Top 30 Performance Summary for Minnesota South [MNSO]

Early-Season Test

1.6 - 1.9 Day CRM

S2020MNSOa

Top 30 of 48

For Gross Income (Sorted by Yield), (12) Replication Average

Company/Brand	Product/Brand	Technol.†	RM	SCN	Yield Bu/A ↓	Protein (%)	Oil (%)	Moisture %	Lodging %	Gross Income \$/Acre	Rank	Easton	Kasson	Lamberton	New Richland
LATHAM	L 1858 R2	RR2Y	1.8	R	78.1	33.7	18.8	8.3	0	742	1	84.6	77.1	72.6	77.9
HEFTY	H18X1	RRX	1.8	R	78.0	34.3	18.7	8.3	0	741	2	83.3	79.5	68.7	80.5
GOLD COUNTRY	1609X	RRX	1.6	R	77.7	33.9	19.5	8.7	0	738	3	85.2	81.0	70.0	74.6
GOLDEN HARVEST	GH1915X §	RRX	1.9	R	77.4	33.3	19.8	7.9	0	736	5	82.7	80.0	72.9	74.1
LATHAM	L 1948 R2X	RRX	1.9	R	76.5	34.8	18.4	8.7	0	727	6	77.2	78.4	76.8	73.5
ZINESTO	Z1701G	LLGT27	1.7	R	76.4	34.1	19.5	8.2	0	726	7	84.3	73.5	70.7	77.0
LEGEND	19E152N GC	E3	1.9	NA	76.0	33.6	19.2	9.2	0	722	8	81.5	73.9	69.6	78.8
ASGROW	AG19X0 §	RRX	1.9	R	75.8	34.3	18.7	8.9	0	720	9	80.0	73.9	72.8	76.5
ANDERSON	180RXT	RRX	1.8	MR	75.5	34.6	19.0	8.5	0	718	10	77.4	77.8	70.3	76.6
HEFTY	H18X8	RRX	1.8	MR	75.4	34.7	18.8	8.4	0	717	11	75.5	78.3	70.8	77.1
RENK	RS181NX	RRX	1.8	R	75.2	33.7	18.8	8.4	0	714	12	79.3	78.2	67.6	75.7
APEX	AE1710	E3	1.7	R	75.0	33.5	19.0	8.1	0	713	13	78.2	76.5	71.5	73.9
DAIRYLAND	DSR-2030E	E3	1.9	R	74.9	33.7	18.7	8.8	0	712	14	79.7	74.0	71.3	74.6
GENESIS	G1680GL	LLGT27	1.6	R	74.8	34.2	19.6	8.5	0	711	15	82.2	72.7	64.9	79.5
CREDENZ	CZ 1660GTLL	LLGT27	1.6	MR	74.8	33.4	19.5	8.7	0	711	16	84.3	76.3	64.0	74.5
TITAN PRO	18E9	E3	1.8	R	74.7	33.9	18.8	9.1	0	710	17	82.3	74.2	65.9	76.5
LATHAM	L 1648 LLGT27	LLGT27	1.6	R	74.4	33.9	19.8	8.6	0	707	18	83.9	72.9	70.4	70.2
DYNA-GRO	S17XT29	RRX	1.7	R	74.3	35.6	18.7	8.5	0	706	19	80.3	76.3	66.2	74.5
HEFTY	H16X1	RRX	1.6	R	73.9	34.5	19.3	8.5	0	702	20	83.2	74.5	63.0	75.0
DYNA-GRO	S19XT30	RRX	1.9	R	73.8	33.8	18.6	8.7	0	701	21	81.3	72.3	67.1	74.3
LOYAL	L1930E	E3	1.9	R	73.7	33.2	19.1	8.5	0	700	22	80.5	72.6	69.3	72.2
DYNA-GRO	S17EN80	E3	1.7	R	73.4	34.3	18.9	9.1	0	698	23	77.3	72.7	65.7	78.1
FEDERAL	F1909N	LLGT27	1.9	R	73.1	33.7	19.4	8.2	0	695	24	79.6	72.0	68.3	72.5
CREDENZ	CZ 1859GTLL	LLGT27	1.8	R	73.0	33.7	19.1	8.3	0	694	25	81.2	70.9	70.6	69.3
PIONEER	P18A98X §	RRX	1.8	R	72.8	33.8	18.9	8.3	0	692	26	74.6	71.1	72.3	73.3
TITAN PRO	17E0	E3	1.7	R	72.4	34.0	19.0	8.4	0	688	27	82.3	74.7	59.1	73.6
GENESIS	G1750E	E3	1.7	R	72.2	33.7	18.9	8.1	0	686	28	80.8	73.5	65.2	69.5
ANDERSON	179RXT	RRX	1.7	MR	72.2	35.8	18.8	8.4	0	686	29	77.7	72.6	67.2	71.2
NK BRAND	S19-2E3	E3	1.9	R	71.8	33.7	18.6	8.2	0	683	30	77.3	74.5	66.8	68.7
ZINESTO	Z1601E	E3	1.6	R	71.6	33.1	18.9	8.2	0	681	31	75.2	72.8	63.8	74.7
CREDENZ	CZ 2121GTLL CK	LLGT27	2.1	MR	77.7	33.2	19.2	8.9	0	738	4	80.0	75.3	74.0	81.3



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Averages =	73.0	33.9	19.0	8.5	0	694	79.2	73.4	66.4	73.2
LSD (0.10) =	2.8	0.6	0.3	ns	ns		3.7	2.8	4.4	3.7
LSD (0.25) =	1.5	0.3	0.2	ns	ns		1.9	1.5	2.3	2.0

Prev. years average yield for region: 57.2 bu/a, 18 yr(s)

Yield & Income Factors:

Base Moisture = 13.0%

Shrink = 1.4

Drying = \$0.04

Prices: GMO = \$9.50

† 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.

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2020 Soybeans Top 30 Performance Summary for Minnesota South [MNSO]



Test by: Southern MN FIRST New Richland, MN

Full-Season Test

2.0 - 2.3 Day CRM

S2020MNSOb

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For Gross Income (Sorted by Yield), (12) Replication Average

Company/Brand	Product/Brand	Technol.†	RM	SCN	Yield Bu/A ↓	Protein (%)	Oil (%)	Moisture %	Lodging %	Gross Income \$/Acre	Rank	Easton	Kasson	Lamberton	New Richland
ASGROW	AG20X9 §	RRX	2.0	R	79.7	34.0	18.4	9.0	0	757	1	85.8	76.3	76.3	80.2
APEX	AE2110	E3	2.1	R	79.5	33.0	18.9	8.8	0	756	2	84.8	78.4	73.0	81.9
LATHAM	L 2295 R2X	RRX	2.2	R	78.4	34.6	18.9	8.5	0	744	4	82.3	77.2	72.6	81.3
GENESIS	G2150E	E3	2.1	R	78.3	33.1	19.1	9.0	0	744	5	86.0	78.2	68.0	81.0
NK BRAND	S21-W8X §	RRX	2.1	R	78.0	34.1	19.1	8.4	0	741	6	86.1	76.6	73.2	76.1
LOYAL	L2130E	E3	2.1	R	77.9	32.7	19.1	8.8	0	740	7	84.0	79.9	72.2	75.5
DYNA-GRO	S21EN81	E3	2.1	R	77.8	33.1	18.9	8.9	0	739	8	82.5	79.0	73.6	76.0
TITAN PRO	21E0	E3	2.1	R	77.4	32.8	19.1	9.0	0	735	9	89.2	75.6	68.2	76.4
HEFTY	H23X0	RRX	2.3	R	76.7	32.9	19.1	9.7	0	729	10	81.1	76.3	74.6	74.7
LATHAM	L 2228 R2	RR2Y	2.2	R	76.6	33.9	18.2	8.7	0	728	11	84.0	75.6	67.0	79.9
NK BRAND	S20-J5X §	RRX	2.0	R	76.5	34.2	19.3	8.4	0	726	12	81.9	76.0	69.6	78.3
GENESIS	G2190GL	LLGT27	2.1	R	76.2	32.9	19.3	8.9	0	724	13	82.8	74.9	71.5	75.6
DYNA-GRO	S21XT49	RRX	2.1	R	76.2	34.5	18.8	8.7	0	724	14	82.7	76.4	72.1	73.6
NK BRAND	S23-G5X	RRX	2.3	MR	75.9	34.1	19.0	8.6	0	721	15	82.4	75.9	67.8	77.5
ANDERSON	217RXT	RRX	2.0	MR	75.6	34.7	18.7	8.8	0	718	16	80.8	73.6	67.5	80.5
PIONEER	P21A28X §	RRX	2.1	R	75.2	33.3	19.5	8.9	0	715	17	81.1	72.5	70.3	77.0
HEFTY	H23X9	RRX	2.3	MR	74.6	33.4	19.5	9.3	0	709	18	87.1	73.8	63.9	73.7
GOLD COUNTRY	2249X	RRX	2.2	R	74.6	33.7	18.9	9.8	0	709	19	82.8	72.7	71.3	71.6
GOLDEN HARVEST	GH2230X	RRX	2.2	R	74.5	33.5	18.8	8.5	0	708	20	78.4	76.1	68.8	74.5
ASGROW	AG21X9 GC	RRX	2.1	R	74.0	33.5	18.9	9.0	0	704	21	78.4	72.6	68.1	77.0
LATHAM	L 2184 R2X	RRX	2.1	R	73.5	35.0	18.6	9.0	0	698	22	74.9	71.6	67.9	79.5
ZINESTO	Z2101E	E3	2.1	R	73.3	32.8	19.1	8.9	0	697	23	82.3	74.7	62.3	73.9
NUTECH	20N03E	E3	2.0	R	73.2	33.4	18.9	9.1	0	696	24	78.0	69.2	65.9	79.8
CREDENZ	CZ 2040GTLL	LLGT27	2.0	R	73.1	33.4	19.3	8.5	0	695	25	81.2	72.9	64.1	74.3
NUTECH	22N02E	E3	2.2	R	73.1	34.9	18.4	9.8	0	694	26	77.4	71.0	70.6	73.3
VIKING	2155N	CONV	2.1	MR	72.6	34.0	18.5	10.8	1	689	27	82.7	71.5	64.3	71.8
CREDENZ	CZ 2360GTLL	LLGT27	2.3	MR	72.5	33.6	18.9	9.3	0	689	28	80.9	74.7	63.8	70.6
TITAN PRO	22E8	E3	2.2	R	72.1	33.8	19.1	9.5	0	685	29	81.2	71.7	68.2	67.4
FEDERAL	F2090N	RRX	2.0	R	71.9	35.0	18.5	8.8	0	684	30	76.7	75.5	67.0	68.6
DAIRYLAND	DSR-2112E	E3	2.1	R	71.9	33.3	19.1	10.1	0	683	31	79.3	71.6	64.5	72.2
CREDENZ	CZ 2121GTLL CK	LLGT27	2.1	MR	78.4	33.9	18.7	9.0	0	745	3	86.9	77.4	72.7	76.7

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Averages =	73.4	33.8	18.9	9.2	0	697	80.5	73.0	67.2	73.3
LSD (0.10) =	3.0	0.5	0.3	0.3	ns		4.8	2.9	4.7	4.5
LSD (0.25) =	1.6	0.3	0.2	0.2	ns		2.5	1.5	2.5	2.4

Prev. years average yield for region: 57.2 bu/a, 18 yr(s)

Yield & Income Factors:

Base Moisture = 13.0%

Shrink = 1.4

Drying = \$0.04

Prices: GMO = \$9.50

† 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.

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2020 Soybeans - Minnesota South [MNSO]

Early-Season Test Products (48 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
ANDERSON	179RXT	RRX	MR	1.7	Untreated
ANDERSON	180RXT	RRX	MR	1.8	Untreated
ANDERSON	A180E3	E3	NA	1.8	Untreated
APEX	AE1710	E3	R	1.7	CMBV,SA
APEX	AE1910	E3	R	1.9	CMBV,SA
ASGROW	AG17X8 §	RRX	R	1.7	ACi,IL
ASGROW	AG19X0 §	RRX	R	1.9	ACi
CREDENZ	CZ 1660GTLL	LLGT27	MR	1.6	PV,IL,OB
CREDENZ	CZ 1859GTLL	LLGT27	R	1.8	PV,IL,OB
CREDENZ	CZ 2121GTLL CK	LLGT27	MR	2.1	PV,IL,OB
DAIRYLAND	DSR-1673E	E3	R	1.6	Lum,Lu,IL
DAIRYLAND	DSR-2030E	E3	R	1.9	Lum,Lu,IL
DYNA-GRO	S17EN80	E3	R	1.7	EQV,SA
DYNA-GRO	S17XT29	RRX	R	1.7	EQV,SA
DYNA-GRO	S19XT30	RRX	R	1.9	EQV,SA
FEDERAL	F1901N	E3	R	1.9	Untreated
FEDERAL	F1909N	LLGT27	R	1.9	Untreated
GENESIS	G1650E	E3	R	1.6	CMBV,SA
GENESIS	G1680GL	LLGT27	R	1.6	EcTC
GENESIS	G1750E	E3	R	1.7	CMBV,SA
GENESIS	G1950E	E3	R	1.9	CMBV,SA
GOLD COUNTRY	1609X	RRX	R	1.6	ACi,IL
GOLDEN HARVEST	GH1638X	RRX	MR	1.6	CMBV,SA
GOLDEN HARVEST	GH1915X §	RRX	R	1.9	CMBV,SA
HEFTY	H16X1	RRX	R	1.6	HCS
HEFTY	H17X9	RRX	MR	1.7	HCS
HEFTY	H18X1	RRX	R	1.8	HCS
HEFTY	H18X8	RRX	MR	1.8	HCS
LATHAM	L 1648 LLGT27	LLGT27	R	1.6	SS+
LATHAM	L 1758 E3	E3	R	1.7	SS+
LATHAM	L 1858 R2	RR2Y	R	1.8	SS+
LATHAM	L 1948 R2X	RRX	R	1.9	SS+
LEGEND	19E152N GC	E3	NA	1.9	YPP
LOYAL	L1930E	E3	R	1.9	CMBV,SA
NK BRAND	S16-K2X	RRX	MR	1.6	CMBV,SA
NK BRAND	S19-2E3	E3	R	1.9	CMBV,SA

Company/Brand	Brand/Product	Technology	RM	SCN	Seed Treat.
NUTECH	16N03E	E3	R	1.7	Lum,G,IL
PIONEER	P18A98X §	RRX	R	1.8	Lum,Lu
RENK	RS181NX	RRX	R	1.8	EcTC
STINE	19EA32 §	E3	R	1.9	VFI,SA
TITAN PRO	15E0	E3	R	1.5	SA,A,R,G
TITAN PRO	17E0	E3	R	1.7	SA,A,R,G
TITAN PRO	18E9	E3	R	1.8	SA,A,R,G
TITAN PRO	19E0	E3	R	1.9	SA,A,R,G
VIKING	1940KN	CONV	R	1.9	AM
ZINESTO	Z1601E	E3	R	1.6	DST
ZINESTO	Z1701G	LLGT27	R	1.7	DST
ZINESTO	Z1801E	E3	R	1.8	DST

2020 Soybeans - Minnesota South [MNSO]

Full-Season Test Products (48 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
ANDERSON	217RXT	RRX	MR	2.0	Untreated
ANDERSON	A200E3	E3	NA	2.0	Untreated
APEX	AE2110	E3	R	2.1	CMBV,SA
APEX	AE2310	E3	R	2.3	CMBV,SA
ASGROW	AG20X9 §	RRX	R	2.0	ACi
ASGROW	AG21X9 GC	RRX	R	2.1	ACi,IL
CREDENZ	CZ 2040GTLL	LLGT27	R	2.0	PV,IL,OB
CREDENZ	CZ 2121GTLL CK	LLGT27	MR	2.1	PV,IL,OB
CREDENZ	CZ 2360GTLL	LLGT27	MR	2.3	PV,IL,OB
DAIRYLAND	DSR-2112E	E3	R	2.1	Lum,Lu,IL
DAIRYLAND	DSR-2259E	E3	R	2.2	Lum,Lu,IL
DAIRYLAND	E20-101E	E3	R	2.2	Lum,Lu,IL
DAIRYLAND	E24-201E	E3	R	2.3	Lum,Lu,IL
DYNA-GRO	S21EN81	E3	R	2.1	EQV,SA
DYNA-GRO	S21XT49	RRX	R	2.1	EQV,SA
FEDERAL	F2090N	RRX	R	2.0	Untreated
FEDERAL	F2201N	E3	R	2.2	Untreated
GENESIS	G2150E	E3	R	2.1	CMBV,SA
GENESIS	G2190GL	LLGT27	R	2.1	EcTC,SA
GENESIS	G2350E	E3	R	2.3	CMBV,SA
GOLD COUNTRY	2249X	RRX	R	2.2	ACi,IL
GOLDEN HARVEST	GH2011E3	E3	MR	2.0	CMBV,SA
GOLDEN HARVEST	GH2230X	RRX	R	2.2	CMBV,SA
HEFTY	H23X0	RRX	R	2.3	HCS
HEFTY	H23X9	RRX	MR	2.3	HCS
LATHAM	L 2184 R2X	RRX	R	2.1	SS+
LATHAM	L 2228 R2	RR2Y	R	2.2	SS+
LATHAM	L 2295 R2X	RRX	R	2.2	SS+
LATHAM	L 2379 E3	E3	R	2.3	SS+
LOYAL	L2130E	E3	R	2.1	CMBV,SA
NK BRAND	S20-J5X §	RRX	R	2.0	CMBV,SA
NK BRAND	S21-W8X §	RRX	R	2.1	CMBV,SA
NK BRAND	S23-G5X	RRX	MR	2.3	CMBV,SA
NUTECH	20N03E	E3	R	2.0	Lum,G,IL
NUTECH	20N04E	E3	R	2.0	Lum,G,IL
NUTECH	22N02E	E3	R	2.2	Lum,G,IL

Company/Brand	Brand/Product	Technology	RM	SCN	Seed Treat.
PIONEER	P20T64E §	E3	R	2.0	Untreated
PIONEER	P21A28X §	RRX	R	2.1	Lum,Lu
STINE	21EA32 §	E3	R	2.1	NA
STINE	23EA32 §	E3	R	2.3	VFI,SA
TITAN PRO	20E9	E3	R	2.0	SA,A,R,G
TITAN PRO	21E0	E3	R	2.1	SA,A,R,G
TITAN PRO	22E8	E3	R	2.2	SA,A,R,G
VIKING	2018N	CONV	MR	2.0	CMBV
VIKING	2155N	CONV	MR	2.1	CMBV
VIKING	2340KN	CONV	R	2.3	CMBV
ZINESTO	Z2001E	E3	R	2.0	DST
ZINESTO	Z2101E	E3	R	2.1	DST

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*

CONV	Conventional
E3	Enlist™ E3
LLGT27	LibertyLink® GT27®
RR2Y	Roundup Ready 2 Yield®
RRX	Roundup Ready 2 Xtend®

Soybeans Seed Treatments**

NA	Not Available
ACi	Acceleron® Standard Insecticide-Fungicide
ACi,IL	Acceleron Standard Insecticide-Fungicide, ILeVO
AM	ApronMaxx
CMBV	CruiserMaxx Beans, Vibrance
CMBV,SA	Cruisermaxx, Vibrance, Saltro
DST	Dominance 2 ST
EQV,SA	Equity VIP, Saltro
EcTC	Eclipse US Total Coverage Trio IM, N-Force
EcTC,SA	Eclipse US Total Coverage Trio IM, N-Force, Saltro
HCS	Hefty Complete Soybeans
Lum,G,IL	Lumisena, Gaucho, ILeVO
Lum,Lu	Lumigen, Lumisena™
Lum,Lu,IL	Lumigen, Lumisena™, ILeVO
PV,IL,OB	Poncho®/Votivo®, ILeVO, Obvius Plus
SA,A,R,G	Saltro, Allegiance FL, Redigo 480, Gaucho 600
SS+	SoyShield Plus
Untreated	No seed treatment
VFI,SA	Virile Fungicide+Insecticide, Saltro (BCS Consulting)
YPP	YP Pro, QuickRoots

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