

Test by: Southern MN FIRST New Richland, MN

2020 Soybeans Top 30 Harvest Report

Minnesota South [MNSO] NEW RICHLAND, MN
Leon Schoenrock, Waseca County, MN 56072

Early-Season Test	1.6 - 1.9 Day CRM S2020MNSO03a
Top 30 of 48	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Resicore
SOIL DESCRIPTION:	Madelia silty clay loam, well drained, non-irrigated
SOIL CONDITION:	medium P, low K, 6.1 pH, 5.7% OM, 31.2 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Flexstar, Section 3
Applied N-P-K (units):	6-20-60
SEDED - RATE - ROW:	May 4 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 11 124.0 /A

TEST COMMENTS:

Great planting conditions. Cooler weather during germination, then warm weather and timely rains occurred through mid-July. Small hail fell on this plot June 2nd, but did not adversely affect plant lodging or stands. Signs of cupping from Dicamba drift were noticed in June affecting varieties w/o resistance. Later July and August brought just enough moisture to keep plants going till maturity.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
HEFTY	H18X1	RRX	1.8	R	80.5	8.4	0	124.7	765	2
GENESIS	G1680GL	LLGT27	1.6	R	79.5	8.7	0	124.3	755	3
LEGEND	19E152N GC	E3	1.9	NA	78.8	8.6	0	124.5	749	4
DYNA-GRO	S17EN80	E3	1.7	R	78.1	9.2	0	124.7	742	5
LATHAM	L 1858 R2	RR2Y	1.8	R	77.9	8.2	0	124.7	740	6
HEFTY	H18X8	RRX	1.8	MR	77.1	8.2	0	124.3	732	7
ZINESTO	Z1701G	LLGT27	1.7	R	77.0	8.2	0	123.7	732	8
ANDERSON	180RXT	RRX	1.8	MR	76.6	8.7	0	122.7	728	9
TITAN PRO	18E9	E3	1.8	R	76.5	9.1	0	124.7	727	10
ASGROW	AG19X0 §	RRX	1.9	R	76.5	9.0	0	125.3	727	11
RENK	RS181NX	RRX	1.8	R	75.7	8.3	0	124.0	719	12
HEFTY	H16X1	RRX	1.6	R	75.0	8.2	0	125.3	712	13
ZINESTO	Z1601E	E3	1.6	R	74.7	8.1	0	123.3	710	14
DAIRYLAND	DSR-2030E	E3	1.9	R	74.6	8.8	0	124.3	709	15
GOLD COUNTRY	1609X	RRX	1.6	R	74.6	8.3	0	124.0	709	16
CREDENZ	CZ 1660GTLL	LLGT27	1.6	MR	74.5	9.0	0	124.3	708	17
DYNA-GRO	S17XT29	RRX	1.7	R	74.5	8.6	0	125.3	708	18
DYNA-GRO	S19XT30	RRX	1.9	R	74.3	8.6	0	123.3	706	19
GOLDEN HARVEST	GH1915X §	RRX	1.9	R	74.1	7.9	0	122.7	704	20
APEX	AE1710	E3	1.7	R	73.9	8.0	0	125.0	702	21
HEFTY	H17X9	RRX	1.7	MR	73.7	8.5	0	124.7	700	22
TITAN PRO	17E0	E3	1.7	R	73.6	8.2	0	125.0	699	23
LATHAM	L 1948 R2X	RRX	1.9	R	73.5	8.4	0	124.7	698	24
PIONEER	P18A98X §	RRX	1.8	R	73.3	8.2	0	124.3	696	25
LATHAM	L 1758 E3	E3	1.7	R	73.1	8.5	0	123.0	694	26
GENESIS	G1650E	E3	1.6	R	72.8	8.2	0	125.0	692	27
FEDERAL	F1909N	LLGT27	1.8	R	72.5	8.2	0	124.7	689	28
ASGROW	AG17X8 §	RRX	1.7	R	72.3	8.4	0	122.3	687	29
LOYAL	L1930E	E3	1.9	R	72.2	8.0	0	123.0	686	30
NK BRAND	S16-K2X	RRX	1.6	MR	72.0	8.4	0	123.0	684	31
CREDENZ	CZ 2121GTLL CK	LLGT27	2.1	MR	81.3	8.7	0	124.0	772	1

Mark Querna

Mark Querna

mark.querna@firstseedtests.com, (507) 380-9920

Averages = **73.2** **8.4** **0** **124.0** **695**

LSD (0.10) = 3.7 0.3 ns

LSD (0.25) = 2.0 0.2 ns

C.V. = 4.9

Historic yield: 60.8 bu/a, 18 yr(s)

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.4 Drying = \$0.04 Prices: GMO = \$9.50

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Minnesota South [MNSO] NEW RICHLAND, MN
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Full-Season Test	2.0 - 2.3 Day CRM S2020MNSO03b
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PREV. CROP/HERB:	Corn / Resicore
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PEST MANAGEMENT:	Flexstar, Section 3
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SEEDED - RATE - ROW:	May 4 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 11 123.7 /A

TEST COMMENTS:

Great planting conditions. Cooler weather during germination, then warm weather and timely rains occurred through mid-July. Small hail fell on this plot June 2nd, but did not adversely affect plant lodging or stands. Signs of cupping from Dicamba drift were noticed in June affecting varieties w/o resistance. Later July and August brought just enough moisture to keep plants going till maturity.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
APEX	AE2110	E3	2.1	R	81.9	8.6	0	123.3	778	1
LATHAM	L 2295 R2X	RRX	2.2	R	81.3	8.5	0	123.0	772	2
GENESIS	G2150E	E3	2.1	R	81.0	8.7	0	124.3	770	3
ANDERSON	217RXT	RRX	2.0	MR	80.5	8.5	0	123.3	765	4
ASGROW	AG20X9 §	RRX	2.0	R	80.2	8.6	0	124.7	762	5
LATHAM	L 2228 R2	RR2Y	2.2	R	79.9	8.6	0	124.3	759	6
NUTECH	20N03E	E3	2.0	R	79.8	8.7	0	122.7	758	7
LATHAM	L 2184 R2X	RRX	2.1	R	79.5	8.9	0	123.3	755	8
NK BRAND	S20-J5X §	RRX	2.0	R	78.3	8.3	0	122.3	744	9
NK BRAND	S23-G5X	RRX	2.3	MR	77.5	8.6	0	123.0	736	10
PIONEER	P21A28X §	RRX	2.1	R	77.0	8.9	0	123.7	732	11
ASGROW	AG21X9 GC	RRX	2.1	R	77.0	8.8	0	123.7	732	12
TITAN PRO	21E0	E3	2.1	R	76.4	9.1	0	124.3	726	14
NK BRAND	S21-W8X §	RRX	2.1	R	76.1	8.1	0	122.0	723	15
DYNA-GRO	S21EN81	E3	2.1	R	76.0	8.8	0	123.7	722	16
GENESIS	G2190GL	LLGT27	2.1	R	75.6	9.0	0	123.3	718	17
LOYAL	L2130E	E3	2.1	R	75.5	8.9	0	124.3	717	18
HEFTY	H23X0	RRX	2.3	R	74.7	9.2	0	124.7	710	19
GOLDEN HARVEST	GH2230X	RRX	2.2	R	74.5	8.4	0	123.3	708	20
CREDENZ	CZ 2040GTLL	LLGT27	2.0	R	74.3	8.2	0	122.7	706	21
ZINESTO	Z2101E	E3	2.1	R	73.9	8.8	0	123.3	702	22
HEFTY	H23X9	RRX	2.3	MR	73.7	8.5	0	124.3	700	23
DYNA-GRO	S21XT49	RRX	2.1	R	73.6	8.3	0	122.7	699	24
NUTECH	22N02E	E3	2.2	R	73.3	9.2	0	124.7	696	25
DAIRYLAND	E20-101E	E3	2.2	R	72.2	8.6	0	123.0	686	26
DAIRYLAND	DSR-2112E	E3	2.1	R	72.2	9.8	0	123.7	686	27
VIKING	2155N	CONV	2.1	MR	71.8	9.8	0	123.7	682	28
GOLD COUNTRY	2249X	RRX	2.2	R	71.6	9.1	0	124.7	680	29
PIONEER	P20T64E §	E3	1.9	R	71.3	8.6	0	122.3	677	30
DAIRYLAND	E24-201E	E3	2.3	R	71.3	9.5	0	123.0	677	31
CREDENZ	CZ 2121GTLL CK	LLGT27	2.1	MR	76.7	9.0	0	124.7	729	13

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Averages = **73.3** **8.9** **0** **123.7** **696**

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LSD (0.25) = 2.4 0.2 ns

C.V. = 5.9

Historic yield: 60.8 bu/a, 18 yr(s)

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.4 Drying = \$0.04 Prices: GMO = \$9.50

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	1.8	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	1.9	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
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
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.