

Test by: Southern MN FIRST New Richland, MN

2020 Soybeans Top 30 Harvest Report

Minnesota South [MNSO] EASTON, MN
Dru Martin, Faribault County, MN 56025

Early-Season Test	1.6 - 1.9 Day CRM S2020MNSO02a
Top 30 of 48	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Resicore
SOIL DESCRIPTION:	Canisteo-Glencoe Complex loam, mod. well drained, non- irrigated
SOIL CONDITION:	very high P, very high K, 5.7 pH, 4.3% OM, 24.0 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Authority First Df, Flexstar, Section 3
Applied N-P-K (units):	0-0-0
SEDED - RATE - ROW:	May 7 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 7 126.3 /A

TEST COMMENTS:

Soils were perfect at planting. Moderately warm temps dominated the summer months, with no extreme heat. The rainfall here was good, but Dru feels they received just enough (no heavy rains) to produce great yields. Plant height was above average, with short internodes. Plants leaned to the south as we harvested in a west-east direction. Turns out the high yields contributed to the lean!

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
GOLD COUNTRY	1609X	RRX	1.6	R	85.2	7.6	0	126.0	809	1
LATHAM	L 1858 R2	RR2Y	1.8	R	84.6	7.5	0	127.3	804	2
CREDENZ	CZ 1660GTLL	LLGT27	1.6	MR	84.3	7.7	0	126.0	801	3
ZINESTO	Z1701G	LLGT27	1.7	R	84.3	6.8	0	125.7	801	4
LATHAM	L 1648 LLGT27	LLGT27	1.6	R	83.9	7.4	0	125.7	797	5
HEFTY	H18X1	RRX	1.8	R	83.3	7.3	0	126.0	791	6
HEFTY	H16X1	RRX	1.6	R	83.2	7.6	0	127.0	790	7
GOLDEN HARVEST	GH1915X §	RRX	1.9	R	82.7	7.1	0	124.3	786	8
TITAN PRO	18E9	E3	1.8	R	82.3	7.9	0	127.7	782	9
TITAN PRO	17E0	E3	1.7	R	82.3	7.3	0	125.0	782	10
GENESIS	G1680GL	LLGT27	1.6	R	82.2	7.2	0	129.3	781	11
LEGEND	19E152N GC	E3	1.9	NA	81.5	8.5	1	129.3	774	12
DYNA-GRO	S19XT30	RRX	1.9	R	81.3	7.8	1	125.0	772	13
CREDENZ	CZ 1859GTLL	LLGT27	1.8	R	81.2	7.3	0	127.3	771	14
GENESIS	G1750E	E3	1.7	R	80.8	7.2	1	127.7	768	15
NUTECH	16N03E	E3	1.7	R	80.6	7.0	0	128.7	766	16
LOYAL	L1930E	E3	1.9	R	80.5	7.8	1	126.0	765	17
DYNA-GRO	S17XT29	RRX	1.7	R	80.3	7.3	0	123.3	763	18
FEDERAL	F1901N	E3	1.9	R	80.2	7.4	1	124.7	762	19
ASGROW	AG19X0 §	RRX	1.9	R	80.0	7.6	0	124.7	760	21
DAIRYLAND	DSR-2030E	E3	1.9	R	79.7	7.7	1	125.7	757	22
FEDERAL	F1909N	LLGT27	1.8	R	79.6	6.9	0	127.3	756	23
RENK	RS181NX	RRX	1.8	R	79.3	7.4	0	124.0	753	24
ZINESTO	Z1801E	E3	1.8	R	79.1	7.5	1	128.7	751	25
APEX	AE1910	E3	1.9	R	78.5	7.1	0	124.7	746	26
DAIRYLAND	DSR-1673E	E3	1.6	R	78.2	7.1	0	127.7	743	27
STINE	19EA32 §	E3	1.9	R	78.2	7.6	0	123.7	743	28
APEX	AE1710	E3	1.7	R	78.2	7.5	0	128.0	743	29
ANDERSON	179RXT	RRX	1.7	MR	77.7	7.5	0	126.7	738	30
ANDERSON	A180E3	E3	1.8	NA	77.4	7.0	0	126.7	735	31
CREDENZ	CZ 2121GTLL CK	LLGT27	2.1	MR	80.0	7.8	1	127.7	760	20

Mark Querna

Mark Querna

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

Averages = **79.2** **7.4** **0** **126.3** **752**

LSD (0.10) = 3.7 0.3 1

LSD (0.25) = 1.9 0.2 0

C.V. = 4.4

Historic yield: 55.9 bu/a, 17 yr(s)

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

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Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
TITAN PRO	21E0	E3	2.1	R	89.2	7.9	2	128.3	847	1
HEFTY	H23X9	RRX	2.3	MR	87.1	8.2	0	127.3	827	2
NK BRAND	S21-W8X §	RRX	2.1	R	86.1	7.5	1	126.0	818	4
GENESIS	G2150E	E3	2.1	R	86.0	7.7	1	127.0	817	5
ASGROW	AG20X9 §	RRX	2.0	R	85.8	8.0	0	126.7	815	6
APEX	AE2110	E3	2.1	R	84.8	7.5	1	127.7	806	7
LOYAL	L2130E	E3	2.1	R	84.0	7.9	0	127.0	798	8
LATHAM	L 2228 R2	RR2Y	2.2	R	84.0	7.9	1	126.3	798	9
ANDERSON	A200E3	E3	2.0	NA	83.3	7.9	1	126.3	791	10
GOLD COUNTRY	2249X	RRX	2.2	R	82.8	8.2	1	125.3	787	11
GENESIS	G2190GL	LLGT27	2.1	R	82.8	7.7	1	126.7	787	12
DYNA-GRO	S21XT49	RRX	2.1	R	82.7	7.6	0	124.7	786	13
VIKING	2155N	CONV	2.1	MR	82.7	10.1	2	127.7	786	14
DYNA-GRO	S21EN81	E3	2.1	R	82.5	7.4	1	124.0	784	15
NK BRAND	S23-G5X	RRX	2.3	MR	82.4	7.2	0	126.7	783	16
ZINESTO	Z2101E	E3	2.1	R	82.3	7.7	1	124.3	782	17
LATHAM	L 2295 R2X	RRX	2.2	R	82.3	7.3	0	125.7	782	18
NK BRAND	S20-J5X §	RRX	2.0	R	81.9	7.2	1	127.0	778	19
CREDENZ	CZ 2040GTLL	LLGT27	2.0	R	81.2	7.5	1	126.3	771	20
TITAN PRO	22E8	E3	2.2	R	81.2	8.3	0	126.7	771	21
HEFTY	H23X0	RRX	2.3	R	81.1	8.2	0	123.7	770	22
PIONEER	P21A28X §	RRX	2.1	R	81.1	7.6	0	128.3	770	23
CREDENZ	CZ 2360GTLL	LLGT27	2.3	MR	80.9	8.2	1	125.3	769	24
ANDERSON	217RXT	RRX	2.0	MR	80.8	7.9	0	126.3	768	25
ZINESTO	Z2001E	E3	2.0	R	80.6	7.6	1	126.3	766	26
DAIRYLAND	DSR-2259E	E3	2.2	R	80.6	8.0	0	127.0	766	27
DAIRYLAND	DSR-2112E	E3	2.1	R	79.3	9.6	2	123.0	753	28
DAIRYLAND	E24-201E	E3	2.3	R	79.1	8.2	0	128.0	751	29
PIONEER	P20T64E §	E3	1.9	R	79.0	7.6	2	127.3	750	30
GOLDEN HARVEST	GH2230X	RRX	2.2	R	78.4	7.5	0	129.3	745	31
CREDENZ	CZ 2121GTLL CK	LLGT27	2.1	MR	86.9	7.7	0	124.7	826	3

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Averages = **80.5** **8.0** **1** **126.3** **765**

LSD (0.10) = 4.8 0.3 ns

LSD (0.25) = 2.5 0.1 ns

C.V. = 5.6

Historic yield: 55.9 bu/a, 17 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.