

Test by: Southern MN FIRST New Richland, MN

2020 Soybeans Top 30 Harvest Report

Minnesota South [MNSO] LAMBERTON, MN
Ed Iverson, Redwood County, MN 56152

Early-Season Test	1.6 - 1.9 Day CRM S2020MNSO01a
Top 30 of 48	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Accent, Callisto, Atrazine
SOIL DESCRIPTION:	North Twin-Walnut Grove Complex loam, mod. well drained, non-irrigated
SOIL CONDITION:	low P, low K, 6.5 pH, 4.3% OM, 28.9 CEC
TILLAGE/CULTIVATION:	Conventional W/O Fall Till
PEST MANAGEMENT:	Sinister, Fusilade, Prowl
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 15 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 6 126.3 /A

TEST COMMENTS:

Planting conditions were just dry enough. Every time I called Ed from April through July, he stated that he had received too much rain. A couple of individual plots showed evidence of stunted plants at harvest in an otherwise beautiful plot site. Rains stopped here in August, taking off the top end of yields. Plants all stood well at harvest, and the beans dried down a lot in the past few days.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
LATHAM	L 1948 R2X	RRX	1.9	R	76.8	8.5	0	128.3	730	1
GOLDEN HARVEST	GH1915X §	RRX	1.9	R	72.9	7.2	0	129.0	693	3
ASGROW	AG19X0 §	RRX	1.9	R	72.8	8.3	0	127.0	692	4
LATHAM	L 1858 R2	RR2Y	1.8	R	72.6	7.7	0	127.7	690	5
PIONEER	P18A98X §	RRX	1.8	R	72.3	8.0	0	128.0	687	6
APEX	AE1710	E3	1.7	R	71.5	7.4	0	122.7	679	7
DAIRYLAND	DSR-2030E	E3	1.9	R	71.3	8.2	0	127.0	677	8
HEFTY	H18X8	RRX	1.8	MR	70.8	7.9	0	126.7	673	9
ZINESTO	Z1701G	LLGT27	1.7	R	70.7	7.5	0	127.7	672	10
CREDENZ	CZ 1859GTLL	LLGT27	1.8	R	70.6	7.5	0	122.3	671	11
LATHAM	L 1648 LLGT27	LLGT27	1.6	R	70.4	7.8	0	127.5	669	12
ANDERSON	180RXT	RRX	1.8	MR	70.3	7.4	0	127.3	668	13
GOLD COUNTRY	1609X	RRX	1.6	R	70.0	8.4	0	124.3	665	14
LEGEND	19E152N GC	E3	1.9	NA	69.6	8.5	0	122.3	661	15
LOYAL	L1930E	E3	1.9	R	69.3	7.7	0	127.3	658	16
NK BRAND	S16-K2X	RRX	1.6	MR	69.0	8.1	0	128.0	656	17
HEFTY	H18X1	RRX	1.8	R	68.7	7.6	0	125.3	653	18
FEDERAL	F1909N	LLGT27	1.8	R	68.3	7.3	0	123.7	649	19
GOLDEN HARVEST	GH1638X	RRX	1.6	MR	68.0	8.2	0	125.7	646	20
RENK	RS181NX	RRX	1.8	R	67.6	7.6	0	127.7	642	21
ANDERSON	179RXT	RRX	1.7	MR	67.2	7.6	0	127.3	638	22
DYNA-GRO	S19XT30	RRX	1.9	R	67.1	8.0	0	128.7	637	23
NK BRAND	S19-2E3	E3	1.9	R	66.8	7.6	0	128.3	635	24
GENESIS	G1950E	E3	1.9	R	66.6	8.0	0	124.3	633	25
DYNA-GRO	S17XT29	RRX	1.7	R	66.2	7.7	0	127.3	629	26
TITAN PRO	18E9	E3	1.8	R	65.9	8.5	0	123.0	626	27
NUTECH	16N03E	E3	1.7	R	65.7	7.4	0	125.3	624	28
DYNA-GRO	S17EN80	E3	1.7	R	65.7	8.4	0	125.3	624	29
VIKING	1940KN	CONV	1.9	R	65.4	7.8	0	125.3	621	30
GENESIS	G1750E	E3	1.7	R	65.2	7.2	0	127.0	619	31
CREDENZ	CZ 2121GTLL CK	LLGT27	2.1	MR	74.0	8.2	0	129.3	703	2
					Averages =	66.4	7.8	0	126.3	631
					LSD (0.10) =	4.4	0.4	ns		
					LSD (0.25) =	2.3	0.2	ns		
					C.V. =	6.2				Historic yield: new site

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Yield & Income Factors:

Base Moisture = 13.0%

Shrink = 1.4

Drying = \$0.04

Prices: GMO = \$9.50

Report Date: 10/07/2020

† 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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TILLAGE/CULTIVATION:	Conventional W/O Fall Till
PEST MANAGEMENT:	Sinister, Fusilade, Prowl
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 15 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 6 127.0 /A

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Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
ASGROW	AG20X9 §	RRX	2.0	R	76.3	9.0	0	128.5	724	1
HEFTY	H23X0	RRX	2.3	R	74.6	8.9	0	127.0	709	2
DYNA-GRO	S21EN81	E3	2.1	R	73.6	8.5	0	127.0	699	3
NK BRAND	S21-W8X §	RRX	2.1	R	73.2	7.7	0	125.3	695	4
APEX	AE2110	E3	2.1	R	73.0	7.9	0	128.0	694	5
LATHAM	L 2295 R2X	RRX	2.2	R	72.6	7.7	0	124.0	690	7
LOYAL	L2130E	E3	2.1	R	72.2	7.9	0	127.0	686	8
DYNA-GRO	S21XT49	RRX	2.1	R	72.1	8.0	0	127.7	685	9
GENESIS	G2190GL	LLGT27	2.1	R	71.5	8.4	0	126.3	679	10
GOLD COUNTRY	2249X	RRX	2.2	R	71.3	9.8	0	129.7	677	11
NUTECH	22N02E	E3	2.2	R	70.6	8.9	0	130.3	671	12
PIONEER	P21A28X §	RRX	2.1	R	70.3	9.0	0	125.7	668	13
NK BRAND	S20-J5X §	RRX	2.0	R	69.6	7.8	0	127.7	661	14
STINE	23EA32 §	E3	2.3	R	69.0	9.1	0	126.0	656	15
GOLDEN HARVEST	GH2230X	RRX	2.2	R	68.8	8.0	0	123.7	654	16
TITAN PRO	22E8	E3	2.2	R	68.2	9.0	0	127.0	648	17
TITAN PRO	21E0	E3	2.1	R	68.2	8.6	0	128.3	648	18
ASGROW	AG21X9 GC	RRX	2.1	R	68.1	8.4	0	125.0	647	19
VIKING	2340KN	CONV	2.3	R	68.0	10.2	0	124.0	646	20
GENESIS	G2150E	E3	2.1	R	68.0	8.6	0	125.3	646	21
LATHAM	L 2184 R2X	RRX	2.1	R	67.9	8.5	0	127.3	645	22
NK BRAND	S23-G5X	RRX	2.3	MR	67.8	8.2	0	130.7	644	23
ANDERSON	217RXT	RRX	2.0	MR	67.5	8.4	0	129.0	641	24
STINE	21EA32 §	E3	2.1	R	67.1	9.4	0	124.7	637	25
LATHAM	L 2228 R2	RR2Y	2.2	R	67.0	8.0	0	130.3	636	26
FEDERAL	F2090N	RRX	2.0	R	67.0	8.4	0	122.5	636	27
DAIRYLAND	E24-201E	E3	2.3	R	66.3	8.9	0	124.3	630	28
NUTECH	20N03E	E3	2.0	R	65.9	8.7	0	126.0	626	29
GOLDEN HARVEST	GH2011E3	E3	2.0	MR	65.5	9.3	0	126.7	622	30
LATHAM	L 2379 E3	E3	2.3	R	65.3	9.6	0	126.7	620	31
CREDENZ	CZ 2121GTLL CK	LLGT27	2.1	MR	72.7	8.3	0	126.7	691	6
					Averages =	67.2	8.6	0	127.0	636
					LSD (0.10) =	4.7	0.6	ns		
					LSD (0.25) =	2.5	0.3	ns		
					C.V. =	6.6				Historic yield: new site

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

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† 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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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.