

Test by: Southern MN FIRST New Richland, MN

2020 Soybeans Top 30 Harvest Report

Minnesota South Central [MNSC] MADISON LAKE, MN
Mike Krenik, Le Sueur County, MN 56063

Early-Season Test	1.5 - 1.8 Day CRM S2020MNSC06a
Top 30 of 48	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybean / Sonic, Flexstar, Dual
SOIL DESCRIPTION:	Le Sueur loam, mod. well drained, non-irrigated
SOIL CONDITION:	very high P, high K, 5.3 pH, 4.1% OM, 22.3 CEC
TILLAGE/CULTIVATION:	Conventional W/O Fall Till
PEST MANAGEMENT:	Sonic, Flexstar, Dual
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 6 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 14 123.3 /A

TEST COMMENTS:

Planting conditions were ideal on May 6th. Emergence was very even despite cooler temps during early May. This plot is located on higher ground and has minimal slope. Rainfall came in large doses throughout the growing season. May through August rainfall was over 27 inches with four events bringing 3 or more inches at a time. Warm temps and sunshine were plentiful whenever it was not raining.

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	83.8	9.2	0	125.7	796	1
PIONEER	P15A88X §	RRX	1.5	R	81.6	10.2	0	123.7	775	2
HEFTY	H18X1	RRX	1.8	R	81.6	9.4	0	124.3	775	3
GENESIS	G1680GL GC	LLGT27	1.6	R	80.5	9.8	0	124.7	765	4
HEFTY	H16X1	RRX	1.6	R	79.5	9.5	0	124.3	755	5
PIONEER	P18A98X §	RRX	1.8	R	79.2	9.2	0	123.0	752	6
TITAN PRO	15GL9	LLGT27	1.5	R	79.0	9.5	0	125.0	750	7
LATHAM	L 1858 R2	RR2Y	1.8	R	78.6	10.0	0	123.0	747	8
RENK	RS181NX	RRX	1.8	R	78.5	9.1	0	122.7	746	10
LOYAL	L1430E	E3	1.4	R	78.1	9.8	0	124.0	742	11
DAIRYLAND	DSR-1673E	E3	1.6	R	77.7	9.6	0	124.0	738	12
ZINESTO	Z1701G	LLGT27	1.7	R	77.6	9.6	0	123.7	737	13
ASGROW	AG17X8 §	RRX	1.7	R	77.4	9.4	0	122.3	735	14
ZINESTO	Z1601E	E3	1.6	R	76.8	9.0	0	124.3	730	15
FEDERAL	F1709N	LLGT27	1.7	R	76.7	9.7	0	124.3	729	16
VIKING	1518N	CONV	1.5	MR	76.5	9.9	0	123.7	727	17
NK BRAND	S14-U9X	RRX	1.4	MR	76.4	9.9	0	122.7	726	18
ANDERSON	179RXT	RRX	1.7	MR	76.1	9.8	0	125.3	723	19
CREDENZ	CZ 1859GTLL	LLGT27	1.8	R	76.0	9.3	0	124.3	722	20
DYNA-GRO	S17XT29	RRX	1.7	R	76.0	9.9	0	122.7	722	21
LATHAM	L 1648 LLGT27	LLGT27	1.6	R	75.7	9.7	0	124.3	719	22
CREDENZ	CZ 1660GTLL	LLGT27	1.6	MR	75.4	9.5	0	124.7	716	23
GENESIS	G1450E	E3	1.4	R	75.4	9.4	0	123.7	716	24
LATHAM	L 1758 E3	E3	1.7	R	75.4	9.3	0	126.0	715	25
STINE	16EC32 §	E3	1.6	R	75.1	9.1	0	124.3	713	26
GENESIS	G1750E	E3	1.7	R	75.0	9.1	0	123.7	712	27
DYNA-GRO	S17EN80	E3	1.7	R	75.0	10.2	0	124.3	712	28
GOLDEN HARVEST	GH1763E3	E3	1.7	MR	74.8	10.4	0	124.3	711	29
TITAN PRO	18E9	E3	1.8	R	74.6	10.0	0	124.0	709	30
RENK	RS150NX	RRX	1.5	R	74.6	9.5	0	123.3	709	31
ASGROW	AG21X9 CK	RRX	2.1	R	78.6	9.6	1	122.7	747	9

Mark Querna

Mark Querna

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

Averages = **74.5** **9.6** **0** **123.3** **707**

LSD (0.10) = 4.1 0.5 ns

LSD (0.25) = 2.2 0.3 ns

C.V. = 5.3

Historic yield: 58.3 bu/a, 11 yr(s)

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

Test by: Southern MN FIRST New Richland, MN

2020 Soybeans Top 30 Harvest Report

Minnesota South Central [MNSC] MADISON LAKE, MN
Mike Krenik, Le Sueur County, MN 56063

Full-Season Test	1.9 - 2.2 Day CRM S2020MNSC06b
Top 30 of 48	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybean / Sonic, Flexstar, Dual
SOIL DESCRIPTION:	Le Sueur loam, mod. well drained, non-irrigated
SOIL CONDITION:	very high P, high K, 5.3 pH, 4.1% OM, 22.3 CEC
TILLAGE/CULTIVATION:	Conventional W/O Fall Till
PEST MANAGEMENT:	Sonic, Flexstar, Dual
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 6 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 14 123.5 /A

TEST COMMENTS:

Planting conditions were ideal on May 6th. Emergence was very even despite cooler temps during early May. This plot is located on higher ground and has minimal slope. Rainfall came in large doses throughout the growing season. May through August rainfall was over 27 inches with four events bringing 3 or more inches at a time. Warm temps and sunshine were plentiful whenever it was not raining.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
ZINESTO	Z2101G	LLGT27	2.1	R	76.9	10.1	0	125.3	731	1
VIKING	2155N	CONV	2.1	MR	75.8	10.0	0	123.0	720	2
ASGROW	AG19X0 §	RRX	1.9	R	75.7	9.8	0	124.0	719	3
STINE	19EC32 §	E3	1.9	R	75.6	9.1	0	124.0	718	4
ASGROW	AG20X9 §	RRX	2.0	R	75.3	9.4	0	123.7	715	5
GOLDEN HARVEST	GH1915X	RRX	1.9	R	75.1	9.3	0	123.0	713	6
GENESIS	G1950E	E3	1.9	R	74.5	9.1	0	124.3	708	7
PIONEER	P21A28X §	RRX	2.1	R	73.8	9.6	0	122.7	701	8
DAIRYLAND	DSR-2112E	E3	2.1	R	73.8	10.1	0	124.3	701	9
LOYAL	L1930E	E3	1.9	R	73.7	9.2	0	124.3	700	10
ZINESTO	Z2001E	E3	2.0	R	73.3	9.8	0	124.3	696	11
NK BRAND	S20-J5X §	RRX	2.0	R	72.8	9.5	0	123.3	692	12
LATHAM	L 2228 R2	RR2Y	2.2	R	72.5	9.9	0	123.7	689	14
NK BRAND	S21-W8X §	RRX	2.1	R	72.4	9.2	0	121.7	688	15
APEX	AE2110	E3	2.1	R	72.1	9.6	0	123.7	685	16
LATHAM	L 2184 R2X	RRX	2.1	R	72.0	9.4	0	124.3	684	17
ANDERSON	217RXT	RRX	2.0	MR	71.7	9.3	0	121.3	681	18
LOYAL	L2130E	E3	2.1	R	71.4	9.9	0	123.3	678	19
LATHAM	L 2084 R2	RR2Y	2.0	R	71.1	9.3	0	123.3	675	20
APEX	AE1910	E3	1.9	R	71.1	9.0	0	124.7	675	21
GENESIS	G2190GL	LLGT27	2.1	R	71.1	9.6	0	125.0	675	22
TITAN PRO	20E9	E3	2.0	R	71.0	10.0	0	123.0	674	23
GOLDEN HARVEST	GH2011E3	E3	2.0	MR	70.9	9.9	0	124.0	674	24
VIKING	2018N	CONV	2.0	MR	70.8	9.7	0	123.7	673	25
DYNA-GRO	S19XT30	RRX	1.9	R	70.7	9.4	0	123.0	672	26
LEGEND	19E152N GC	E3	1.9	NA	70.5	9.8	0	124.3	670	27
FEDERAL	F2001N	E3	2.0	R	70.4	9.4	0	123.7	669	28
ZINESTO	Z1900E	E3	1.9	R	69.5	10.2	0	123.7	660	29
GOLD COUNTRY	2249X	RRX	2.2	R	69.4	9.6	0	123.0	659	30
GENESIS	G2150E	E3	2.1	R	69.3	9.8	0	123.7	658	31
ASGROW	AG21X9 CK	RRX	2.1	R	72.6	9.3	0	124.0	690	13

Mark Querna

Mark Querna

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

Averages = **70.2** **9.6** **0** **123.5** **667**

LSD (0.10) = 3.1 0.3 ns

LSD (0.25) = 1.6 0.1 ns

C.V. = 4.2

Historic yield: 58.3 bu/a, 11 yr(s)

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

2020 Soybeans - Minnesota South Central [MNSC]

Early-Season Test Products (48 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
ANDERSON	159RXT	RRX	MR	1.5	Untreated
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
ASGROW	AG17X8 §	RRX	R	1.7	ACi,IL
ASGROW	AG21X9 CK	RRX	R	2.1	Treated
CREDENZ	CZ 1660GTLL	LLGT27	MR	1.6	PV,IL,OB
CREDENZ	CZ 1859GTLL	LLGT27	R	1.8	PV,IL,OB
DAIRYLAND	DSR-1673E	E3	R	1.6	Lum,Lu,IL
DYNA-GRO	S17EN80	E3	R	1.7	EQV,SA
DYNA-GRO	S17XT29	RRX	R	1.7	EQV,SA
FEDERAL	F1601N	E3	NA	1.6	Untreated
FEDERAL	F1709N	LLGT27	R	1.7	Untreated
GENESIS	G1450E	E3	R	1.4	CMBV,SA
GENESIS	G1650E	E3	R	1.6	CMBV,SA
GENESIS	G1680GL GC	LLGT27	R	1.6	EcTC
GENESIS	G1750E	E3	R	1.7	CMBV,SA
GOLD COUNTRY	1609X	RRX	R	1.6	ACi,IL
GOLDEN HARVEST	GH1638X §	RRX	MR	1.6	CMBV,SA
GOLDEN HARVEST	GH1763E3	E3	MR	1.7	CMBV,SA
HCI	HC-02 GC	CONV	NA	0.2	Untreated
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 1769 R2X	RRX	R	1.7	SS+
LATHAM	L 1858 R2	RR2Y	R	1.8	SS+
LOYAL	L1430E	E3	R	1.4	CMBV,SA
NK BRAND	S04-K9 GC	CONV	R	0.4	ViM,NO
NK BRAND	S14-U9X	RRX	MR	1.4	CMBV,SA
NK BRAND	S16-K2X	RRX	MR	1.6	CMBV,SA
NK BRAND	S18-R6 GC	CONV	R	1.8	Untreated
PIONEER	P15A88X §	RRX	R	1.5	Lum,Lu

Company/Brand	Brand/Product	Technology	RM	SCN	Seed Treat.
PIONEER	P18A98X §	RRX	R	1.8	Lum,Lu
PROSEEDS	SKYLINE GC	CONV	R	1.1	Untreated
RENK	RS150NX	RRX	R	1.5	EcTC
RENK	RS181NX	RRX	R	1.8	EcTC
STINE	16EC32 §	E3	R	1.6	VFI,SA
TITAN PRO	15E0	E3	R	1.5	SA,A,R,G
TITAN PRO	15GL9	LLGT27	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
VIKING	1518N	CONV	MR	1.5	Untreated
ZINESTO	Z1601E	E3	R	1.6	DST
ZINESTO	Z1701G	LLGT27	R	1.7	DST

2020 Soybeans - Minnesota South Central [MNSC]

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	AE1910	E3	R	1.9	CMBV,SA
APEX	AE2110	E3	R	2.1	CMBV,SA
ASGROW	AG19X0 §	RRX	R	1.9	ACi
ASGROW	AG20X9 §	RRX	R	2.0	ACi
ASGROW	AG21X9 CK	RRX	R	2.1	Treated
CREDENZ	CZ 2040GTLL	LLGT27	R	2.0	PV,IL,OB
CREDENZ	CZ 2360GTLL	LLGT27	MR	2.3	PV,IL,OB
DAIRYLAND	DSR-2030E	E3	R	1.9	Lum,Lu,IL
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
DYNA-GRO	S19EN21	E3	R	1.9	EQV,SA
DYNA-GRO	S19XT30	RRX	R	1.9	EQV,SA
DYNA-GRO	S21XT49	RRX	R	2.1	EQV,SA
FEDERAL	F1901N	E3	R	1.9	Untreated
FEDERAL	F2001N	E3	R	2.0	Untreated
FEDERAL	F2201N	E3	R	2.2	Untreated
GENESIS	G1950E	E3	R	1.9	CMBV,SA
GENESIS	G2150E	E3	R	2.1	CMBV,SA
GENESIS	G2190GL	LLGT27	R	2.1	EcTC,SA
GOLD COUNTRY	2249X	RRX	R	2.2	ACi,IL
GOLDEN HARVEST	GH1915X	RRX	R	1.9	CMBV,SA
GOLDEN HARVEST	GH2011E3	E3	MR	2.0	CMBV,SA
LATHAM	L 2084 R2	RR2Y	R	2.0	SS
LATHAM	L 2184 R2X	RRX	R	2.1	SS+
LATHAM	L 2193 E3	E3	R	2.1	SS+
LATHAM	L 2228 R2	RR2Y	R	2.2	SS+
LEGEND	19E152N GC	E3	NA	1.9	YPP
LOYAL	L1930E	E3	R	1.9	CMBV,SA
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
PIONEER	P21A28X §	RRX	R	2.1	Lum,Lu
STINE	19EA32 §	E3	R	1.9	VFI,SA

Company/Brand	Brand/Product	Technology	RM	SCN	Seed Treat.
STINE	19EC32 §	E3	R	1.9	VFI,SA
TITAN PRO	19E0	E3	R	1.9	SA,A,R,G
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	1940KN	CONV	R	1.9	AM
VIKING	2018N	CONV	MR	2.0	CMBV
VIKING	2155N	CONV	MR	2.1	CMBV
ZINESTO	Z1900E	E3	R	1.9	DST
ZINESTO	Z2001E	E3	R	2.0	DST
ZINESTO	Z2101E	E3	R	2.1	DST
ZINESTO	Z2101G	LLGT27	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,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
SS+	SoyShield Plus
Treated	Treated, unspecified
Untreated	No seed treatment
VFI,SA	Virile Fungicide+Insecticide, Saltro (BCS Consulting)
ViM,NO	Vibrance Maxx, Nodulator Pro
YPP	YP Pro, QuickRoots

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