

Test by: Southern MN FIRST New Richland, MN

2019 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 S2019MNSO03a
Top 30 of 42	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Resicor Roundup, atrazine
SOIL DESCRIPTION:	Webster clay loam , mod. well drained
SOIL CONDITION:	very high P, medium K, 6.0 pH, 5.0% OM, 31.1 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Roundup, Flexstar, Clethodim
Applied N-P-K (units):	0-26-62
SEEDED - RATE - ROW:	May 26 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 9 122.7 /A

TEST COMMENTS:

A wet cool spring delayed planting. Plants were slow to develop. Rows finally shaded over in late August. Rainfall was above normal, except for two weeks in late August/early September. Aphid pressure was low, though Leon did note some frog-eye leaf spot across his fields. Some plants showed minor signs of white mold and SDS. Plants stood very well at harvest, in spite of heavy rains in late Sept/early Oct.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
GOLDEN HARVEST	GH1915X §	RRX	1.9	R	68.0	10.4	0	122.7	595	1
LATHAM	L 1858R2	RR2Y	1.8	R	67.9	10.7	0	121.3	594	2
NK BRAND	S18-G4X §	RRX	1.8	R	66.5	11.3	0	122.3	582	3
DAHLMAN	1014E3N GC	E3	1.4	R	66.2	10.8	0	124.1	579	4
FEDERAL	1909N LLGT+	LG27	1.8	R	66.2	10.5	0	125.5	579	5
RENK	RS170NX	RRX	1.6	R	66.0	10.6	0	125.1	578	6
ENESTVEDT	E1418RR2 GC	RR2Y	1.4	R	65.3	10.9	0	124.1	571	7
HEFTY	H17X0	RRX	1.7	R	65.2	10.8	0	123.7	570	9
ANDERSON	180RXT	RRX	1.8	MR	65.1	10.9	0	120.4	570	8
CREDENZ	CZ 1660GTLL	LG27	1.6	MR	64.4	10.7	0	123.2	564	10
LATHAM	L 1983 LLGT27	LG27	1.9	R	64.4	9.8	0	124.6	564	11
NORTHSTAR	NS 61775NXR2	RRX	1.7	R	64.3	10.5	0	120.9	563	13
ASGROW	AG19X0 §	RRX	1.9	R	64.3	11.1	0	120.9	563	12
ANDERSON	18LG20	LG27	1.8	MR	63.9	10.7	0	121.3	559	14
CORNELIUS	CB18X80	RRX	1.8	R	63.7	10.4	0	122.7	557	15
PIONEER	P18A98X §	RRX	1.8	R	63.4	10.7	0	124.6	555	16
CREDENZ	CZ 1850GTLL	LG27	1.8	MR	63.1	10.2	0	123.2	552	17
GOLDEN HARVEST	GH1619X §	RRX	1.6	R	62.6	10.8	0	123.2	548	19
STINE	17GA62 §	LG27	1.7	R	62.3	10.8	0	125.1	545	21
NORTHSTAR	NS 91974NE3	E3	1.9	R	62.3	12.0	0	125.5	545	20
STINE	19GA02 §	LG27	1.9	R	61.9	10.2	0	122.3	542	22
ASGROW	AG17X8 §	RRX	1.7	R	61.8	10.1	0	123.2	541	23
CREDENZ	CZ 1859GTLL	LG27	1.8	R	61.7	10.6	0	123.7	540	24
NORTHSTAR	NS 81764NLG+	LG27	1.7	R	61.4	10.5	0	123.2	537	25
HEFTY	Z1800E	E3	1.8	R	61.3	11.6	0	122.7	536	26
LATHAM	L 1829 E3	E3	1.8	R	61.3	11.2	0	122.7	536	27
TITAN PRO	TP-16X88	RRX	1.6	R	61.2	10.4	0	122.3	536	28
TITAN PRO	18GL8	LG27	1.8	R	60.9	10.4	0	124.1	533	29
TITAN PRO	18E9	E3	1.8	R	60.8	11.4	0	123.9	532	30
FEDERAL	2090N R2X	RRX	1.9	R	60.5	10.7	0	120.4	529	31
GOLD COUNTRY	1939X CK	RRX	1.9	n/a	63.1	11.2	0	121.8	552	18
					Averages =	62.4	10.7	0	122.7	546
					LSD (0.10) =	3.2	0.3	0		
					LSD (0.25) =	1.7	0.2	0		
					C.V. =	4.8				

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Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.4 Drying = \$0.04 Prices: GMO = \$8.75; non-GMO = \$8.75

Report Date: 10/10/2019

Additional reports available at www.firstseedtests.com

† 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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Leon Schoenrock, Waseca County, MN 56072

Full-Season Test	2.0 - 2.3 Day CRM S2019MNSO03b
Top 30 of 48	For Gross Income (Sorted by Yield) Average of (3) Replications
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SOIL DESCRIPTION:	Webster clay loam , mod. well drained
SOIL CONDITION:	very high P, medium K, 6.0 pH, 5.0% OM, 31.1 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Roundup, Flexstar, Clethodim
Applied N-P-K (units):	0-26-62
SEEDED - RATE - ROW:	May 26 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 9 122.9 /A

TEST COMMENTS:

A wet cool spring delayed planting. Plants were slow to develop. Rows finally shaded over in late August. Rainfall was above normal, except for two weeks in late August/early September. Aphid pressure was low, though Leon did note some frog-eye leaf spot across his fields. Some plants showed minor signs of white mold and SDS. Plants stood very well at harvest, in spite of heavy rains in late Sept/early Oct.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
ANDERSON	217RXT	RRX	2.0	MR	71.0	10.3	0	124.6	621	1
CREDENZ	CZ 2230GTLL	LG27	2.2	MR	68.5	10.8	0	125.1	599	2
PIONEER	P23A32X §	RRX	2.3	R	68.3	11.6	0	124.6	598	3
PIONEER	P21A28X §	RRX	2.1	R	67.8	10.3	0	124.6	593	4
ASGROW	AG21X9 GC	RRX	2.1	R	67.7	11.3	0	122.7	592	5
CORNELIUS	CB20X22	RRX	2.0	R	67.2	10.4	0	125.5	588	6
GOLDEN HARVEST	GH2041X §	RRX	2.0	R	66.7	10.3	0	122.3	584	7
GOLD COUNTRY	2249X	RRX	2.2	R	66.3	13.5	0	120.9	579	9
PIONEER	P22T73R GC	RR	2.2	R	66.2	11.2	0	121.8	579	10
ANDERSON	20LG20	LG27	2.0	MR	66.2	9.8	0	119.9	579	8
GOLD COUNTRY	2138X	RRX	2.1	R	65.9	10.1	0	121.3	577	11
GOLDEN HARVEST	GH2230X §	RRX	2.2	R	65.8	10.4	0	124.1	576	12
NK BRAND	S20-J5X §	RRX	2.0	R	65.1	10.8	0	120.9	570	13
GENESIS	G2340E	E3	2.3	R	65.1	12.5	0	122.7	570	14
RENK	RS200NX	RRX	2.1	R	64.9	10.8	0	121.3	568	15
HEFTY	H20X0	RRX	2.0	R	64.7	10.6	0	124.6	566	16
LATHAM	L 2159 R2X	RRX	2.1	R	64.7	10.8	0	121.8	566	17
LATHAM	L 2384 R2X	RRX	2.3	R	64.7	11.5	0	122.3	566	18
LATHAM	L 2228R2	RR2Y	2.2	R	64.5	10.0	0	125.5	564	19
NORTHSTAR	NS 62115NXR2	RRX	2.1	R	64.5	10.7	0	121.3	564	20
CREDENZ	CZ 2360GTLL	LG27	2.3	MR	64.3	10.7	0	123.2	563	21
DYNA-GRO	S21EN70	E3	2.1	R	64.1	10.8	0	125.5	561	22
FEDERAL	2190N R2X	RRX	2.1	R	63.9	10.5	0	121.3	559	23
STINE	23EB02 §	E3	2.3	R	63.9	12.6	0	124.1	559	24
THUNDER	SB8021N GC	RRX	2.1	R	63.7	10.2	0	124.1	557	25
LATHAM	L 2193 E3	E3	2.1	R	63.3	11.2	0	124.1	554	26
CORNELIUS	P3 2021E	E3	2.1	R	63.1	11.1	0	124.1	552	27
TITAN PRO	20GL8	LG27	2.0	R	63.0	10.3	0	122.3	551	28
NK BRAND	S21-W8X §	RRX	2.1	R	62.9	10.6	0	120.9	550	30
HEFTY	Z2301E	E3	2.3	R	62.8	11.8	0	125.1	550	29
GOLD COUNTRY	1939X CK	RRX	1.9	n/a	61.5	10.7	0	122.7	538	36
					Averages =	63.7	10.9	0	122.9	557
					LSD (0.10) =	2.5	0.5	0		
					LSD (0.25) =	1.3	0.2	0		
					C.V. =	3.7				

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Early-Season Test Products (42 Total)

Company/Brand	Brand/Product	Technology	SCN	RM
ANDERSON	159RXT GC	RRX	MR	1.5
ANDERSON	179RXT	RRX	MR	1.7
ANDERSON	180RXT	RRX	MR	1.8
ANDERSON	18LG20	LG27	MR	1.8
ASGROW	AG17X8 §	RRX	R	1.7
ASGROW	AG19X0 §	RRX	R	1.9
CORNELIUS	CB18X80	RRX	R	1.8
CORNELIUS	P3 2018E	E3	R	1.8
CREDENZ	CZ 1660GTLL	LG27	MR	1.6
CREDENZ	CZ 1850GTLL	LG27	MR	1.8
CREDENZ	CZ 1859GTLL	LG27	R	1.8
DAHLMAN	1014E3N GC	E3	R	1.4
DAHLMAN	6014XN GC	RRX	R	1.4
DYNA-GRO	S18XT38	RRX	MR	1.8
DYNA-GRO	S19XT30	RRX	R	1.9
ENESTVEDT	E1418RR2 GC	RR2Y	R	1.4
FEDERAL	1909N LLGT+	LG27	R	1.8
FEDERAL	2090N R2X	RRX	R	1.9
GENESIS	G1840E	E3	R	1.8
GOLD COUNTRY	1939X CK	RRX	R	1.9
GOLDEN HARVEST	GH1619X §	RRX	R	1.6
GOLDEN HARVEST	GH1915X §	RRX	R	1.9
HEFTY	H17X0	RRX	R	1.7
HEFTY	Z1800E	E3	R	1.8
HEFTY	Z1900E	E3	R	1.9
LATHAM	L 1748R2	RR2Y	R	1.7
LATHAM	L 1829 E3	E3	R	1.8
LATHAM	L 1858R2	RR2Y	R	1.8
LATHAM	L 1983 LLGT27	LG27	R	1.9
NK BRAND	S18-G4X §	RRX	R	1.8
NK BRAND	S18-H3X §	RRX	R	1.8
NORTHSTAR	NS 61775NXR2	RRX	R	1.7
NORTHSTAR	NS 81764NLG+	LG27	R	1.7
NORTHSTAR	NS 91974NE3	E3	R	1.9
PIONEER	P18A98X §	RRX	R	1.8
RENK	RS170NX	RRX	R	1.6

Company/Brand	Brand/Product	Technology	RM	SCN
STINE	17GA62 §	LG27	R	1.7
STINE	19GA02 §	LG27	R	1.9
TITAN PRO	18E9	E3	R	1.8
TITAN PRO	18GL8	LG27	R	1.8
TITAN PRO	19E8	E3	R	1.9
TITAN PRO	TP-16X88	RRX	R	1.6

Full-Season Test Products (48 Total)

Company/Brand	Brand/Product	Technology	SCN	RM
ANDERSON	20LG20	LG27	MR	2.0
ANDERSON	217RXT	RRX	MR	2.0
ASGROW	AG20X9 §	RRX	R	2.0
ASGROW	AG21X9 GC	RRX	R	2.1
CORNELIUS	CB20X22	RRX	R	2.0
CORNELIUS	CB21X55	RRX	R	2.1
CORNELIUS	P3 2021E	E3	R	2.1
CREDENZ	CZ 2040GTLL	LG27	R	2.0
CREDENZ	CZ 2230GTLL	LG27	MR	2.2
CREDENZ	CZ 2360GTLL	LG27	MR	2.3
DYNA-GRO	S21EN70	E3	R	2.1
DYNA-GRO	S21XT49	RRX	R	2.1
DYNA-GRO	S23XT90	RRX	R	2.3
FEDERAL	2190N R2X	RRX	R	2.1
FEDERAL	2280N R2X	RRX	R	2.2
GENESIS	G2140E	E3	R	2.1
GENESIS	G2181GL	LG27	R	2.2
GENESIS	G2340E	E3	R	2.3
GOLD COUNTRY	1939X CK	RRX	R	1.9
GOLD COUNTRY	2038X	RRX	R	2.0
GOLD COUNTRY	2138X	RRX	R	2.1
GOLD COUNTRY	2249X	RRX	R	2.2
GOLDEN HARVEST	GH2041X §	RRX	R	2.0
GOLDEN HARVEST	GH2230X §	RRX	R	2.2
HEFTY	H20X0	RRX	R	2.0
HEFTY	Z2000E	E3	R	2.0
HEFTY	Z2300E	E3	R	2.3
HEFTY	Z2301E	E3	R	2.3
LATHAM	L 2159 R2X	RRX	R	2.1
LATHAM	L 2193 E3	E3	R	2.1
LATHAM	L 2228R2	RR2Y	R	2.2
LATHAM	L 2384 R2X	RRX	R	2.3
NK BRAND	S20-J5X §	RRX	R	2.0
NK BRAND	S21-W8X §	RRX	R	2.1
NORTHSTAR	NS 62115NXR2	RRX	R	2.1
NORTHSTAR	NS 82024NLG+	LG27	R	2.0

Company/Brand	Brand/Product	Technology	RM	SCN
NORTHSTAR	NS 92335NE3	E3	R	2.3
PIONEER	P21A28X §	RRX	R	2.1
PIONEER	P22T73R GC	RR	R	2.2
PIONEER	P23A32X §	RRX	R	2.3
RENK	RS200NX	RRX	R	2.1
STINE	20EB23 §	E3	R	2.0
STINE	23EB02 §	E3	R	2.3
THUNDER	SB8021N GC	RRX	R	2.1
TITAN PRO	20E9	E3	R	2.0
TITAN PRO	20GL8	LG27	R	2.0
TITAN PRO	22E8	E3	R	2.2
TITAN PRO	23E9	E3	R	2.3

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

Soybeans Technologies*

E3	Enlist E3™
G27	GT27™
LL	LibertyLink®
None	Conventional, non-GMO
RR	Glyphosate tolerant
RR2Y	Genuity® Roundup Ready 2 Yield®
RRX	Roundup Ready 2 Xtend®
ST	Sulfonylurea herbicide tolerant

Soybean Cyst Nematode (SCN) Resistance Rating

S	susceptible
MR	moderate resistance
R	resistant
n/a	info unavailable