

Test by: Southern MN FIRST New Richland, MN

2019 Soybeans Top 30 Harvest Report

Minnesota South [MNSO] JEFFERS, MN
Rick Quade, Cottonwood County, MN 56083

Early-Season Test	1.6 - 1.9 Day CRM S2019MNSO01a
Top 30 of 42	For Gross Income (Sorted by Yield) Average of (2) Replications
PREV. CROP/HERB:	Corn / Force, SureStart, Status, atrazine
SOIL DESCRIPTION:	Webster, Clarion clay loam, moderately drained, non-irrigated
SOIL CONDITION:	low P, medium K, 6.4 pH, 3.3% OM, 23.7 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Sonic
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	Jun 6 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 27 123.5 /A

TEST COMMENTS:

This site was prepped for planting, but rain came before plots could be planted. It took a long time to dry out. Wet, cool weather slowed development, especially in May and June. One rep at this site had more soil saturation than the rest, and was removed from the early-season test. Rick stated that his beans have averaged from the upper 40's to the upper 50's this year. So much rain early, and late, in the season.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
CREDENZ	CZ 1859GTLL	LG27	1.8	R	60.9	12.3	0	123.9	533	1
HEFTY	Z1800E	E3	1.8	R	60.3	13.0	0	123.9	527	2
FEDERAL	2090N R2X	RRX	1.9	R	60.0	11.8	0	122.5	525	3
LATHAM	L 1858R2	RR2Y	1.8	R	59.9	11.8	0	124.6	524	4
LATHAM	L 1748R2	RR2Y	1.7	R	59.7	11.9	0	121.8	522	5
GOLDEN HARVEST	GH1619X §	RRX	1.6	R	59.4	12.3	0	124.6	520	6
NK BRAND	S18-G4X §	RRX	1.8	R	59.3	12.4	0	122.5	518	7
TITAN PRO	18GL8	LG27	1.8	R	58.7	12.3	0	126.7	514	8
DAHLMAN	1014E3N GC	E3	1.4	R	58.7	12.3	0	123.2	514	9
TITAN PRO	18E9	E3	1.8	R	58.4	12.6	0	126.0	511	10
NK BRAND	S18-H3X §	RRX	1.8	R	58.0	11.3	0	119.7	508	11
HEFTY	H17X0	RRX	1.7	R	57.9	12.0	0	120.4	507	12
FEDERAL	1909N LLGT+	LG27	1.8	R	57.8	12.2	0	126.0	506	13
ASGROW	AG19X0 §	RRX	1.9	R	57.7	12.0	0	121.1	504	14
NORTHSTAR	NS 81764NLG+	LG27	1.7	R	57.3	12.2	0	125.3	501	15
DYNA-GRO	S19XT30	RRX	1.9	R	57.2	12.1	0	123.9	500	16
DYNA-GRO	S18XT38	RRX	1.8	MR	57.0	11.5	0	123.2	499	17
PIONEER	P18A98X §	RRX	1.8	R	56.9	12.2	0	122.5	498	18
LATHAM	L 1983 LLGT27	LG27	1.9	R	56.9	11.3	0	122.5	498	19
STINE	19GA02 §	LG27	1.9	R	56.8	11.3	0	125.3	497	20
ANDERSON	180RXT	RRX	1.8	MR	56.5	11.7	0	123.2	494	21
STINE	17GA62 §	LG27	1.7	R	56.4	12.3	0	125.3	494	22
RENK	RS170NX	RRX	1.6	R	56.4	11.8	0	123.2	494	23
NORTHSTAR	NS 61775NXR2	RRX	1.7	R	56.4	11.9	0	123.2	494	24
NORTHSTAR	NS 91974NE3	E3	1.9	R	56.3	11.7	0	124.6	493	25
CORNELIUS	P3 2018E	E3	1.8	R	56.3	12.9	0	123.9	493	26
GOLDEN HARVEST	GH1915X §	RRX	1.9	R	56.0	10.6	0	121.8	490	28
ASGROW	AG17X8 §	RRX	1.7	R	55.9	11.7	0	121.8	489	29
ENESTVEDT	E1418RR2 GC	RR2Y	1.4	R	55.8	11.6	0	122.5	488	30
GENESIS	G1840E	E3	1.8	R	55.3	12.7	0	126.0	483	31
GOLD COUNTRY	1939X CK	RRX	1.9	R	56.2	11.8	0	121.8	492	27

Mark Querna

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Averages =	56.3	12.0	0	123.5	493
LSD (0.10) =	3.4	0.4	0		
LSD (0.25) =	1.8	0.2	0		
C.V. =	4.7				

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

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2019 Soybeans Top 30 Harvest Report

Minnesota South [MNSO] JEFFERS, MN
Rick Quade, Cottonwood County, MN 56083

Full-Season Test	2.0 - 2.3 Day CRM S2019MNSO01b
Top 30 of 48	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Force, SureStart, Status, atrazine
SOIL DESCRIPTION:	Webster, Clarion clay loam, moderately drained, non-irrigated
SOIL CONDITION:	low P, medium K, 6.4 pH, 3.3% OM, 23.7 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Sonic
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	Jun 6 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 27 123.7 /A

TEST COMMENTS:

This site was prepped for planting, but rain came before plots could be planted. It took a long time to dry out. Wet, cool weather slowed development, especially in May and June. One rep at this site had more soil saturation than the rest, and was removed from the early-season test. Rick stated that his beans have averaged from the upper 40's to the upper 50's this year. So much rain early, and late, in the season.

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	61.0	11.6	0	124.1	534	1
NK BRAND	S21-W8X §	RRX	2.1	R	59.2	11.3	0	124.6	518	2
LATHAM	L 2159 R2X	RRX	2.1	R	59.2	11.8	0	125.3	517	3
ANDERSON	217RXT	RRX	2.0	MR	58.2	11.3	0	125.5	509	4
CREDENZ	CZ 2230GTLL	LG27	2.2	MR	55.9	11.7	0	121.8	489	5
GENESIS	G2140E	E3	2.1	R	55.6	11.8	0	125.1	486	6
ASGROW	AG21X9 GC	RRX	2.1	R	55.6	11.8	0	123.7	486	7
NK BRAND	S20-J5X §	RRX	2.0	R	55.2	11.0	0	123.2	483	8
HEFTY	Z2000E	E3	2.0	R	55.2	11.7	0	124.1	483	9
CREDENZ	CZ 2040GTLL	LG27	2.0	R	54.8	11.1	0	123.2	480	10
GOLD COUNTRY	2138X	RRX	2.1	R	54.6	11.5	0	122.7	478	11
GOLD COUNTRY	2038X	RRX	2.0	R	54.6	11.5	0	124.6	478	12
CORNELIUS	CB20X22	RRX	2.0	R	54.6	11.5	0	124.6	478	13
PIONEER	P22T73R GC	RR	2.2	R	54.4	12.1	0	124.1	476	14
FEDERAL	2280N R2X	RRX	2.2	R	54.3	11.6	0	123.7	475	15
FEDERAL	2190N R2X	RRX	2.1	R	54.3	11.6	0	121.3	475	16
GOLD COUNTRY	2249X	RRX	2.2	R	54.0	12.0	0	125.5	472	17
PIONEER	P21A28X §	RRX	2.1	R	53.9	11.5	0	124.6	472	18
CREDENZ	CZ 2360GTLL	LG27	2.3	MR	53.6	11.9	0	123.7	469	19
LATHAM	L 2228R2	RR2Y	2.2	R	53.4	12.0	0	124.6	467	20
GOLDEN HARVEST	GH2041X §	RRX	2.0	R	53.2	11.6	0	122.3	466	21
TITAN PRO	20GL8	LG27	2.0	R	53.0	11.0	0	125.5	464	23
STINE	20EB23 §	E3	2.0	R	52.4	11.9	0	122.7	458	24
RENK	RS200NX	RRX	2.1	R	52.4	11.3	0	123.2	458	25
LATHAM	L 2193 E3	E3	2.1	R	52.4	11.9	0	123.2	458	26
HEFTY	H20X0	RRX	2.0	R	52.3	11.8	0	123.2	458	27
PIONEER	P23A32X §	RRX	2.3	R	52.2	12.0	0	125.3	456	28
TITAN PRO	20E9	E3	2.0	R	52.1	11.6	0	121.3	456	29
STINE	23EB02 §	E3	2.3	R	52.0	12.6	0	123.2	455	30
TITAN PRO	23E9	E3	2.3	R	51.9	12.4	0	123.2	454	31
GOLD COUNTRY	1939X CK	RRX	1.9	R	53.2	11.5	0	124.6	466	22

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Averages =	52.4	11.7	0	123.7	459
LSD (0.10) =	4.8	0.3	0		
LSD (0.25) =	2.5	0.2	0		
C.V. =	8.6				

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

2019 Soybeans - Minnesota South [MNSO]

Early-Season Test Products (42 Total)

Company/Brand	Product/Brand	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

2019 Soybeans - Minnesota South [MNSO]

Full-Season Test Products (48 Total)

Company/Brand	Product/Brand	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

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*

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
