

Test by: Southern MN FIRST New Richland, MN

## 2019 Soybeans Top 30 Harvest Report

Minnesota South Central [MNSC] CANNON FALLS, MN  
Jeff Beckman, Goodhue County, MN 55018

<b>Early-Season Test</b>	1.5 - 1.8 Day CRM S2019MNSC08a
<b>Top 30 of 36</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Peas, Rye Cover / Prowl
<b>SOIL DESCRIPTION:</b>	Klinger silt loam, mod. well drained, non-irrigated
<b>SOIL CONDITION:</b>	very high P, high K, 7.3 pH, 5.3% OM, 20.0 CEC
<b>TILLAGE/CULTIVATION:</b>	No-Till
<b>PEST MANAGEMENT:</b>	Roundup
<b>Applied N-P-K (units):</b>	0-0-0
<b>SEEDED - RATE - ROW:</b>	Jun 3 140.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 19 121.0 /A

### TEST COMMENTS:

*This plot was planted into recently-baled rye cover crop stubble. Jeff noted that total rainfall for the summer was only 27" (close to normal), compared to 57" at our Kasson site. A total post emerge program of glyphosate allowed some waterhemp escapes. The high fertility here encouraged bean plants to branch and grow tall. A gentle slope kept excess water off the site.*

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
CREDENZ	CZ 1660GTLL	LG27	1.6	MR	<b>72.8</b>	12.8	0	119.5	637	1
LATHAM	L 1648 LLGT27	LG27	1.6	R	<b>71.7</b>	12.2	0	124.6	627	2
TITAN PRO	15GL9	LG27	1.5	R	<b>69.6</b>	12.0	0	121.3	609	3
GENESIS	G1680GL	LG27	1.6	R	<b>67.8</b>	12.5	0	121.8	593	4
TITAN PRO	TP-16X88	RRX	1.6	R	<b>66.5</b>	12.0	0	123.2	582	5
DYNA-GRO	S17XT29	RRX	1.7	R	<b>64.7</b>	11.9	0	118.5	566	7
TITAN PRO	18GL8	LG27	1.8	R	<b>64.7</b>	12.1	0	118.5	566	8
ANDERSON	179RXT	RRX	1.7	MR	64.1	11.8	0	123.2	561	9
RENK	RS170NX	RRX	1.6	R	63.8	12.5	0	120.4	558	10
LATHAM	L 1793 LLGT27	LG27	1.7	R	63.4	12.0	0	123.2	555	11
STINE	17GA62 §	LG27	1.7	R	63.4	12.0	0	123.2	555	12
NK BRAND	S18-H3X §	RRX	1.8	R	63.1	12.0	1	117.1	552	13
ANDERSON	159RXT	RRX	1.5	MR	62.7	11.7	1	121.8	549	14
GOLDEN HARVEST	GH1619X §	RRX	1.6	R	62.6	11.7	0	124.6	548	15
ANDERSON	18LG20	LG27	1.8	MR	62.4	12.2	0	118.5	546	16
GOLDEN HARVEST	GH1538X §	RRX	1.5	R	61.9	12.2	0	119.9	542	17
CREDENZ	CZ 1859GTLL	LG27	1.8	R	61.6	11.9	0	119.9	539	18
FEDERAL	1909N LLGT+	LG27	1.8	R	61.5	12.2	0	121.3	538	19
PIONEER	P15T46R2 §	RR2Y	1.5	R	60.1	12.5	0	119.0	526	20
ANDERSON	180RXT	RRX	1.8	MR	59.9	12.6	1	119.9	524	21
LATHAM	L 1858R2	RR2Y	1.8	R	58.5	12.1	0	121.8	512	22
NK BRAND	S18-G4X §	RRX	1.8	R	58.0	12.8	4	121.8	508	23
HEFTY	Z1401E	E3	1.4	R	57.9	13.6	0	121.3	505	24
STINE	15GA20 §	LG27	1.5	R	57.6	12.4	0	118.5	504	25
RENK	RS153NR2	RR2Y	1.5	R	56.6	12.3	0	119.0	495	26
CORNELIUS	CB18X80 GC	RRX	1.8	R	56.5	12.5	1	120.4	494	27
HEFTY	H18X8	RRX	1.8	MR	56.2	11.9	0	121.3	492	28
DYNA-GRO	S18XT38	RRX	1.8	MR	55.4	11.8	1	122.3	485	29
CREDENZ	CZ 1549GTLL	LG27	1.5	R	53.9	13.6	0	120.4	470	30
HEFTY	Z1800E	E3	1.8	R	52.0	13.7	0	123.7	454	31
ASGROW	AG17X8 CK	RRX	1.7	n/a	66.3	12.0	1	118.5	580	6
					Averages =	<b>59.9</b>	<b>12.4</b>	<b>0</b>	<b>121.0</b>	<b>524</b>
					LSD (0.10) =	5.0	0.7	1		
					LSD (0.25) =	2.6	0.4	1		
					C.V. =	8.0				

*Mark Querna*

Mark Querna

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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

Test by: Southern MN FIRST New Richland, MN

## 2019 Soybeans Top 30 Harvest Report

Minnesota South Central [MNSC] CANNON FALLS, MN  
Jeff Beckman, Goodhue County, MN 55018

<b>Full-Season Test</b>	1.9 - 2.2 Day CRM S2019MNSC08b
<b>Top 30 of 42</b>	For Gross Income (Sorted by Yield) Average of (2) Replications
<b>PREV. CROP/HERB:</b>	Peas, Rye Cover / Prowl
<b>SOIL DESCRIPTION:</b>	Klinger silt loam, mod. well drained, non-irrigated
<b>SOIL CONDITION:</b>	very high P, high K, 7.3 pH, 5.3% OM, 20.0 CEC
<b>TILLAGE/CULTIVATION:</b>	No-Till
<b>PEST MANAGEMENT:</b>	Roundup
<b>Applied N-P-K (units):</b>	0-0-0
<b>SEEDED - RATE - ROW:</b>	Jun 3 140.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 19 120.6 /A

### TEST COMMENTS:

*This plot was planted into recently-baled rye cover crop stubble. Jeff noted that total rainfall for the summer was only 27" (close to normal), compared to 57" at our Kasson site. A total post emerge program of glyphosate allowed some waterhemp escapes. The high fertility here encouraged bean plants to branch and grow tall. A gentle slope kept excess water off the site.*

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
<b>GOLD COUNTRY</b>	2249X	RRX	2.2	R	<b>68.2</b>	16.0	0	123.9	589	1
PIONEER	P21A28X §	RRX	2.1	R	<b>67.0</b>	12.5	0	119.0	586	2
PIONEER	P19A14X §	RRX	1.9	R	<b>66.8</b>	12.2	0	120.4	584	3
NK BRAND	S20-J5X §	RRX	2.0	R	<b>66.4</b>	12.9	0	121.8	581	4
ASGROW	AG20X9 §	RRX	2.0	R	66.3	12.0	2	120.4	580	5
LATHAM	L 1983 LLGT27	LG27	1.9	R	65.9	12.2	0	118.3	576	6
NK BRAND	S21-W8X §	RRX	2.1	R	65.0	11.8	0	123.2	569	7
DYNA-GRO	S21XT49	RRX	2.1	R	64.3	11.8	0	118.3	562	9
GOLDEN HARVEST	GH2041X §	RRX	2.0	R	63.5	12.4	1	120.4	556	10
GOLDEN HARVEST	GH2230X §	RRX	2.2	R	63.3	12.3	0	119.7	554	11
GOLD COUNTRY	2138X	RRX	2.1	R	63.2	11.9	0	118.3	553	12
GOLD COUNTRY	1939X	RRX	1.9	R	63.2	13.7	0	121.8	551	13
GENESIS	G2181GL	LG27	2.2	R	62.9	13.3	0	122.5	550	14
DYNA-GRO	S21EN70	E3	2.1	R	62.5	15.5	0	121.8	541	19
RENK	RS207NX	RRX	2.0	R	62.4	12.3	0	119.0	546	15
FEDERAL	2280N R2X	RRX	2.2	R	62.3	13.1	2	121.8	545	16
GOLD COUNTRY	2038X	RRX	2.0	R	62.2	12.9	0	123.2	544	17
HEFTY	Z2000E	E3	2.0	R	62.1	14.4	0	119.0	539	20
TITAN PRO	TP-20X98	RRX	2.0	R	62.0	11.9	0	121.8	542	18
TITAN PRO	20E9	E3	2.0	R	61.8	15.1	0	117.6	536	22
LATHAM	L 1995 E3	E3	1.9	R	61.4	12.0	0	124.6	537	21
ASGROW	AG21X9 §	RRX	2.1	R	61.3	14.3	2	118.3	533	24
FEDERAL	2109N LLGT+	LG27	2.1	R	61.1	12.5	0	120.4	535	23
ANDERSON	20LG20	LG27	2.0	MR	60.3	12.6	0	121.1	528	25
CREDENZ	CZ 2230GTLL	LG27	2.2	MR	60.0	13.5	0	120.4	524	26
DYNA-GRO	S19XT30	RRX	1.9	R	59.9	12.8	1	119.0	524	27
FEDERAL	2190N R2X	RRX	2.1	R	59.8	12.6	0	121.8	523	28
HEFTY	H20X0	RRX	2.0	R	58.6	14.3	0	121.8	509	29
LATHAM	L 2228R2	RR2Y	2.2	R	57.4	11.9	0	121.1	502	30
CORNELIUS	P3 2018E GC	E3	1.8	R	57.0	12.4	0	121.8	499	31
ASGROW	AG17X8 CK	RRX	1.7	n/a	64.9	11.8	0	121.1	567	8
					Averages =	<b>60.4</b>	<b>13.1</b>	<b>0</b>	<b>120.6</b>	<b>527</b>
					LSD (0.10) =	5.9	1.3	1		
					LSD (0.25) =	3.1	0.7	1		
					C.V. =	7.5				

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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: 10/20/2019

† 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 (36 Total)**

Company/Brand	Brand/Product	Technology	SCN	RM
ANDERSON	159RXT	RRX	MR	1.5
ANDERSON	179RXT	RRX	MR	1.7
ANDERSON	180RXT	RRX	MR	1.8
ANDERSON	18LG20	LG27	MR	1.8
ASGROW	AG17X8 CK	RRX	R	1.7
CORNELIUS	CB18X80 GC	RRX	R	1.8
CREDENZ	CZ 1549GTLL	LG27	R	1.5
CREDENZ	CZ 1660GTLL	LG27	MR	1.6
CREDENZ	CZ 1850GTLL	LG27	MR	1.8
CREDENZ	CZ 1859GTLL	LG27	R	1.8
DYNA-GRO	S17XT29	RRX	R	1.7
DYNA-GRO	S18XT38	RRX	MR	1.8
FEDERAL	1909N LLGT+	LG27	R	1.8
GENESIS	G1680GL	LG27	R	1.6
GENESIS	G1840E	E3	R	1.8
GOLDEN HARVEST	GH1538X §	RRX	R	1.5
GOLDEN HARVEST	GH1619X §	RRX	R	1.6
HEFTY	H18X8	RRX	MR	1.8
HEFTY	Z1401E	E3	R	1.4
HEFTY	Z1800E	E3	R	1.8
LATHAM	L 1648 LLGT27	LG27	R	1.6
LATHAM	L 1793 LLGT27	LG27	R	1.7
LATHAM	L 1829 E3	E3	R	1.8
LATHAM	L 1858R2	RR2Y	R	1.8
NK BRAND	S18-G4X §	RRX	R	1.8
NK BRAND	S18-H3X §	RRX	R	1.8
PIONEER	P15T46R2 §	RR2Y	R	1.5
RENK	RS153NR2	RR2Y	R	1.5
RENK	RS170NX	RRX	R	1.6
STINE	13EA12 §	E3	R	1.3
STINE	15GA20 §	LG27	R	1.5
STINE	17GA62 §	LG27	R	1.7
TITAN PRO	15GL9	LG27	R	1.5
TITAN PRO	18E9	E3	R	1.8
TITAN PRO	18GL8	LG27	R	1.8
TITAN PRO	TP-16X88	RRX	R	1.6

**Full-Season Test Products (42 Total)**

Company/Brand	Brand/Product	Technology	SCN	RM
ANDERSON	20LG20	LG27	MR	2.0
ANDERSON	217RXT	RRX	MR	2.0
ASGROW	AG17X8 CK	RRX	R	1.7
ASGROW	AG19X0 §	RRX	R	1.9
ASGROW	AG20X9 §	RRX	R	2.0
ASGROW	AG21X9 §	RRX	R	2.1
CORNELIUS	CB20X22 GC	RRX	R	2.0
CORNELIUS	P3 2018E GC	E3	R	1.8
CREDENZ	CZ 2040GTLL	LG27	R	2.0
CREDENZ	CZ 2230GTLL	LG27	MR	2.2
DYNA-GRO	S19XT30	RRX	R	1.9
DYNA-GRO	S21EN70	E3	R	2.1
DYNA-GRO	S21XT49	RRX	R	2.1
FEDERAL	2109N LLGT+	LG27	R	2.1
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
GOLD COUNTRY	1939X	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	H21X9	RRX	MR	2.1
HEFTY	Z1900E	E3	R	1.9
HEFTY	Z2000E	E3	R	2.0
LATHAM	L 1983 LLGT27	LG27	R	1.9
LATHAM	L 1995 E3	E3	R	1.9
LATHAM	L 2193 E3	E3	R	2.1
LATHAM	L 2228R2	RR2Y	R	2.2
NK BRAND	S20-J5X §	RRX	R	2.0
NK BRAND	S21-W8X §	RRX	R	2.1
PIONEER	P19A14X §	RRX	R	1.9
PIONEER	P21A28X §	RRX	R	2.1

Company/Brand	Brand/Product	Technology	RM	SCN
RENK	RS200NX	RRX	R	2.1
RENK	RS207NX	RRX	R	2.0
TITAN PRO	19E8	E3	R	1.9
TITAN PRO	20E9	E3	R	2.0
TITAN PRO	22E8	E3	R	2.2
TITAN PRO	TP-20X98	RRX	R	2.0

## Footnotes and Abbreviations Descriptions

### Brand Footnotes

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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\*

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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

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### Soybean Cyst Nematode (SCN) Resistance Rating

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