

Test by: Southern MN FIRST New Richland, MN

## 2019 Soybeans Top 30 Harvest Report

Minnesota South Central [MNSC] NERSTRAND, MN  
Wheeling Grain Partnership Keith, Kurt and Brian Schrader,  
Rice County, MN 55053

<b>Early-Season Test</b>	1.5 - 1.8 Day CRM S2019MNSC07a
<b>Top 30 of 36</b>	For Gross Income (Sorted by Yield) Average of (2) Replications
<b>PREV. CROP/HERB:</b>	Corn / SureStart, Halex GT, atrazine
<b>SOIL DESCRIPTION:</b>	Marquis, Maxfield silt loam, mod. well drained, non-irrigated
<b>SOIL CONDITION:</b>	medium P, medium K, 7.0 pH, 4.5% OM, 22.4 CEC
<b>TILLAGE/ CULTIVATION:</b>	Conventional W/ Fall Till
<b>PEST MANAGEMENT:</b>	Zidua Pro, Flexstar, Volunteer
<b>Applied N-P-K (units):</b>	6-26-102
<b>SEEDED - RATE - ROW:</b>	Jun 3 140.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 18 121.4 /A

### TEST COMMENTS:

*Wet and cool weather delayed planting. This site has a gentle slope from left to right across the plot. It is protected on the upslope by a terrace, and good drainage continues across. As a result, plants stood tall at harvest, and put on yield with no moisture stress. Alternating periods of warm and cool temps kept the soybeans guessing, and reduced pest and disease pressure.*

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
HEFTY	Z1401E	E3	1.4	R	<b>74.9</b>	15.3	0	119.7	648	1
LATHAM	L 1858R2	RR2Y	1.8	R	<b>72.7</b>	13.0	0	122.5	636	2
RENK	RS170NX	RRX	1.6	R	<b>72.4</b>	13.1	0	122.5	633	3
TITAN PRO	15GL9	LG27	1.5	R	<b>71.2</b>	13.8	0	121.8	621	4
GOLDEN HARVEST	GH1619X §	RRX	1.6	R	<b>70.8</b>	14.2	0	121.8	616	6
LATHAM	L 1648 LLGT27	LG27	1.6	R	<b>70.7</b>	13.8	0	123.2	617	5
DYNA-GRO	S17XT29	RRX	1.7	R	<b>70.5</b>	13.5	0	123.2	615	7
GENESIS	G1680GL	LG27	1.6	R	<b>70.3</b>	13.9	0	121.1	612	8
RENK	RS153NR2	RR2Y	1.5	R	<b>70.1</b>	13.9	0	123.2	611	9
CORNELIUS	CB18X80 GC	RRX	1.8	R	<b>69.9</b>	14.2	0	120.4	608	10
STINE	15GA20 §	LG27	1.5	R	<b>68.0</b>	13.6	0	123.2	593	11
GOLDEN HARVEST	GH1538X §	RRX	1.5	R	<b>67.7</b>	13.4	0	122.5	591	12
ANDERSON	180RXT	RRX	1.8	MR	67.3	13.1	0	125.3	589	13
HEFTY	H18X8	RRX	1.8	MR	67.0	13.1	0	123.2	586	14
NK BRAND	S18-H3X §	RRX	1.8	R	67.0	12.8	0	120.4	586	15
NK BRAND	S18-G4X §	RRX	1.8	R	66.8	13.5	0	116.2	583	16
TITAN PRO	TP-16X88	RRX	1.6	R	66.8	13.6	0	118.3	583	17
DYNA-GRO	S18XT38	RRX	1.8	MR	66.5	13.5	0	123.2	581	18
LATHAM	L 1793 LLGT27	LG27	1.7	R	65.8	13.9	0	119.0	573	20
CREDENZ	CZ 1850GTLL	LG27	1.8	MR	64.9	16.1	0	118.3	559	24
LATHAM	L 1829 E3	E3	1.8	R	64.8	14.1	0	123.9	564	22
ANDERSON	159RXT	RRX	1.5	MR	64.5	13.0	0	123.2	564	21
PIONEER	P15T46R2 §	RR2Y	1.5	R	64.0	12.8	0	116.9	560	23
CREDENZ	CZ 1549GTLL	LG27	1.5	R	63.7	14.3	0	122.5	553	27
STINE	17GA62 §	LG27	1.7	R	63.6	13.0	0	121.1	556	25
TITAN PRO	18GL8	LG27	1.8	R	63.4	13.8	0	117.6	553	28
ANDERSON	179RXT	RRX	1.7	MR	63.3	13.0	0	123.9	554	26
TITAN PRO	18E9	E3	1.8	R	62.7	14.0	0	121.1	545	30
CREDENZ	CZ 1660GTLL	LG27	1.6	MR	62.4	13.4	0	121.1	545	29
FEDERAL	1909N LLGT+	LG27	1.8	R	61.0	13.1	0	125.3	534	31
ASGROW	AG17X8 CK	RRX	1.7	n/a	65.9	13.3	0	120.4	575	19

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Averages =	<b>66.1</b>	<b>13.6</b>	<b>0</b>	<b>121.4</b>	<b>577</b>
LSD (0.10) =	3.6	0.5	0		
LSD (0.25) =	1.9	0.3	0		
C.V. =	4.1				

**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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<b>Full-Season Test</b>	1.9 - 2.2 Day CRM S2019MNSC07b
<b>Top 30 of 42</b>	For Gross Income (Sorted by Yield) Average of (2) Replications
<b>PREV. CROP/HERB:</b>	Corn / SureStart, Halex GT, atrazine
<b>SOIL DESCRIPTION:</b>	Marquis, Maxfield silt loam, mod. well drained, non-irrigated
<b>SOIL CONDITION:</b>	medium P, medium K, 7.0 pH, 4.5% OM, 22.4 CEC
<b>TILLAGE/ CULTIVATION:</b>	Conventional W/ Fall Till
<b>PEST MANAGEMENT:</b>	Zidua Pro, Flexstar, Volunteer
<b>Applied N-P-K (units):</b>	6-26-102
<b>SEEDED - RATE - ROW:</b>	Jun 3 140.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 18 121.8 /A

### TEST COMMENTS:

*Wet and cool weather delayed planting. This site has a gentle slope from left to right across the plot. It is protected on the upslope by a terrace, and good drainage continues across. As a result, plants stood tall at harvest, and put on yield with no moisture stress. Alternating periods of warm and cool temps kept the soybeans guessing, and reduced pest and disease pressure.*

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
HEFTY	Z2000E	E3	2.0	R	<b>74.5</b>	14.2	2	120.4	648	1
ASGROW	AG21X9 §	RRX	2.1	R	<b>73.7</b>	15.6	2	122.5	637	2
ASGROW	AG19X0 §	RRX	1.9	R	<b>72.7</b>	14.2	1	121.1	633	3
GOLDEN HARVEST	GH2230X §	RRX	2.2	R	<b>72.4</b>	14.0	0	125.3	631	4
TITAN PRO	20E9	E3	2.0	R	71.4	14.9	2	119.0	619	7
LATHAM	L 2193 E3	E3	2.1	R	71.3	18.4	0	118.3	609	11
ASGROW	AG20X9 §	RRX	2.0	R	71.0	14.0	0	120.4	619	5
LATHAM	L 1983 LLGT27	LG27	1.9	R	70.9	13.3	0	120.4	619	6
GOLD COUNTRY	2249X	RRX	2.2	R	70.6	19.7	1	121.1	598	15
DYNA-GRO	S21EN70	E3	2.1	R	70.3	14.5	0	121.1	611	8
CORNELIUS	CB20X22 GC	RRX	2.0	R	70.3	15.4	0	123.2	608	12
FEDERAL	2280N R2X	RRX	2.2	R	70.1	13.9	0	124.6	611	9
NK BRAND	S21-W8X §	RRX	2.1	R	70.0	13.6	0	121.8	611	10
GENESIS	G2140E	E3	2.1	R	69.7	15.6	0	119.7	603	13
RENK	RS207NX	RRX	2.0	R	69.0	13.6	0	122.5	602	14
CREDENZ	CZ 2230GTLL	LG27	2.2	MR	68.2	14.1	2	119.0	594	17
FEDERAL	2190N R2X	RRX	2.1	R	68.2	13.7	1	123.2	595	16
GOLD COUNTRY	1939X	RRX	1.9	R	67.7	14.3	0	122.5	589	19
GENESIS	G2181GL	LG27	2.2	R	67.7	14.4	0	120.4	589	21
DYNA-GRO	S19XT30	RRX	1.9	R	67.5	13.3	0	121.8	590	18
TITAN PRO	22E8	E3	2.2	R	67.5	14.5	1	119.0	587	23
HEFTY	H21X9	RRX	2.1	MR	67.5	13.6	0	123.2	589	20
ANDERSON	20LG20	LG27	2.0	MR	67.4	14.0	0	120.4	586	24
ANDERSON	217RXT	RRX	2.0	MR	67.3	13.9	0	119.7	586	25
GOLD COUNTRY	2038X	RRX	2.0	R	67.2	13.5	0	122.5	587	22
TITAN PRO	TP-20X98	RRX	2.0	R	66.7	13.9	0	121.1	581	27
FEDERAL	2109N LLGT+	LG27	2.1	R	66.6	14.0	0	124.6	580	28
PIONEER	P21A28X §	RRX	2.1	R	66.4	14.3	0	124.6	578	30
GOLD COUNTRY	2138X	RRX	2.1	R	66.3	13.6	0	118.3	578	29
HEFTY	H20X0	RRX	2.0	R	65.9	15.3	0	123.2	570	31
ASGROW	AG17X8 CK	RRX	1.7	n/a	67.0	12.7	0	121.1	586	26

*Mark Querna*

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Averages =	<b>67.4</b>	<b>14.3</b>	<b>0</b>	<b>121.8</b>	<b>586</b>
LSD (0.10) =	4.0	0.7	1		
LSD (0.25) =	2.1	0.4	1		
C.V. =	4.6				

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

**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