

# 2019 Soybeans Top 30 Performance Summary for Minnesota South [MNSO]

## Early-Season Test

### 1.6 - 1.9 Day CRM

S2019MNSOa

Top 30 of 42

For Gross Income (Sorted by Yield), (10) Replication Average

Company/Brand	Product/Brand	Technol.†	RM	SCN	Yield Bu/A	Protein (%)	Oil (%)	Moisture %	Lodging %	Gross Income \$/Acre	Rank	Easton	Jeffers *	Kasson *	New Richland
LATHAM	L 1858R2	RR2Y	1.8	R	<b>65.1</b>	33.0	18.9	11.8	0	569	1	<b>65.7</b>	<b>59.9</b>	66.8	<b>67.9</b>
GOLDEN HARVEST	GH1915X §	RRX	1.9	R	<b>64.6</b>	33.0	<b>19.3</b>	11.2	0	566	2	<b>73.4</b>	56.0	61.1	<b>68.0</b>
ASGROW	AG19X0 §	RRX	1.9	R	<b>64.3</b>	33.7	18.9	12.1	0	562	3	<b>68.2</b>	57.7	66.9	64.3
NK BRAND	S18-G4X §	RRX	1.8	R	<b>64.2</b>	33.3	18.7	12.2	0	562	4	65.0	59.3	66.0	<b>66.5</b>
FEDERAL	2090N R2X	RRX	1.9	R	63.9	<b>34.0</b>	18.7	11.9	0	559	6	65.2	<b>60.0</b>	<b>70.1</b>	60.5
ENESTVEDT	E1418RR2 GC	RR2Y	1.4	R	63.9	<b>34.1</b>	18.2	11.8	0	559	5	64.1	55.8	<b>70.5</b>	65.3
DAHLMAN	1014E3N GC	E3	1.4	R	63.8	33.8	18.3	11.9	0	559	7	62.8	58.7	<b>67.6</b>	<b>66.2</b>
RENK	RS170NX	RRX	1.6	R	63.1	33.6	19.2	11.7	0	553	8	63.3	56.4	66.8	<b>66.0</b>
CORNELIUS	CB18X80	RRX	1.8	R	62.6	33.4	18.9	11.8	0	547	9	65.2	52.9	<b>68.5</b>	63.7
HEFTY	Z1800E	E3	1.8	R	62.4	33.4	18.6	12.9	0	545	11	59.6	<b>60.3</b>	<b>68.6</b>	61.3
NK BRAND	S18-H3X §	RRX	1.8	R	62.4	<b>34.4</b>	18.4	11.6	0	546	10	<b>68.3</b>	58.0	62.9	60.3
STINE	19GA02 §	LG27	1.9	R	62.2	33.3	19.2	11.6	0	544	12	64.8	56.8	65.3	61.9
DYNA-GRO	S18XT38	RRX	1.8	MR	62.0	<b>34.3</b>	18.5	11.7	0	543	13	63.5	57.0	67.5	60.2
TITAN PRO	18E9	E3	1.8	R	61.7	33.8	18.6	12.8	0	540	14	61.9	58.4	65.9	60.8
LATHAM	L 1983 LLGT27	LG27	1.9	R	61.5	33.1	<b>19.3</b>	11.3	0	539	15	62.5	56.9	62.3	64.4
FEDERAL	1909N LLGT+	LG27	1.8	R	61.4	33.4	19.1	11.9	0	537	16	63.2	57.8	58.4	<b>66.2</b>
CORNELIUS	P3 2018E	E3	1.8	R	61.3	33.6	18.7	12.8	0	536	18	60.0	56.3	<b>68.5</b>	60.4
GOLDEN HARVEST	GH1619X §	RRX	1.6	R	61.3	31.3	<b>19.7</b>	12.0	0	536	17	<b>66.4</b>	59.4	56.8	62.6
DYNA-GRO	S19XT30	RRX	1.9	R	61.2	33.1	19.0	12.0	0	535	19	62.1	57.2	67.2	58.3
PIONEER	P18A98X §	RRX	1.8	R	61.1	33.3	19.1	11.9	0	535	20	59.3	56.9	64.9	63.4
LATHAM	L 1829 E3	E3	1.8	R	61.0	33.5	18.8	12.7	0	533	21	59.7	53.5	<b>69.7</b>	61.3
TITAN PRO	19E8	E3	1.9	R	60.9	32.7	<b>19.9</b>	12.1	0	533	22	62.4	54.1	<b>69.2</b>	57.9
GENESIS	G1840E	E3	1.8	R	60.6	33.5	18.7	12.8	0	530	26	59.1	55.3	<b>68.0</b>	60.2
NORTHSTAR	NS 61775NXR2	RRX	1.7	R	60.6	33.6	19.0	11.7	0	531	24	63.0	56.4	58.7	64.3
HEFTY	H17X0	RRX	1.7	R	60.6	33.7	18.9	11.7	0	530	25	62.9	57.9	56.4	65.2
CREDENZ	CZ 1660GTLL	LG27	1.6	MR	60.5	33.3	<b>19.4</b>	11.9	0	530	27	63.2	54.1	60.5	64.4
ANDERSON	180RXT	RRX	1.8	MR	60.3	33.4	19.2	11.8	0	527	28	62.4	56.5	57.1	65.1
CREDENZ	CZ 1859GTLL	LG27	1.8	R	60.2	33.5	19.1	11.9	0	527	29	62.6	<b>60.9</b>	55.6	61.7
TITAN PRO	18GL8	LG27	1.8	R	60.1	33.1	<b>19.3</b>	11.9	0	526	30	63.0	58.7	57.7	60.9
NORTHSTAR	NS 81764NLG+	LG27	1.7	R	60.1	33.2	19.2	11.8	0	525	31	62.0	57.3	59.6	61.4
GOLD COUNTRY	1939X CK	RRX	1.9	R	60.7	32.9	<b>19.3</b>	12.1	0	531	23	58.1	56.2	65.3	63.1



<b>Averages =</b>	<b>61.1</b>	<b>33.4</b>	<b>19.0</b>	<b>11.9</b>	<b>0</b>	<b>534</b>	<b>62.4</b>	<b>56.3</b>	<b>63.2</b>	<b>62.4</b>
LSD (0.10) =	3.0	0.4	0.3	0.3	ns		2.9	3.4	4.3	3.2
LSD (0.25) =	1.6	0.2	0.1	0.1	ns		1.5	1.8	2.3	1.7

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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

† 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. \*There were 2 reps for the site.

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# 2019 Soybeans Top 30 Performance Summary for Minnesota South [MNSO]



Test by: Southern MN FIRST New Richland, MN

## Full-Season Test

### 2.0 - 2.3 Day CRM

S2019MNSOb

Top 30 of 48

For Gross Income (Sorted by Yield), (12) Replication Average

Company/Brand	Product/Brand	Technol. †	RM	SCN	Yield Bu/A	Protein (%)	Oil (%)	Moisture %	Lodging %	Gross Income \$/Acre	Rank	Easton	Jeffers	Kasson	New Richland
ANDERSON	217RXT	RRX	2.0	MR	<b>65.5</b>	33.5	19.0	11.6	0	573	1	<b>69.1</b>	<b>58.2</b>	63.8	<b>71.0</b>
PIONEER	P21A28X §	RRX	2.1	R	<b>64.5</b>	33.2	<b>19.6</b>	11.8	0	564	2	64.5	53.9	<b>71.6</b>	<b>67.8</b>
GOLD COUNTRY	2138X	RRX	2.1	R	<b>64.1</b>	33.4	19.3	11.6	0	561	3	<b>71.5</b>	54.6	64.5	65.9
NK BRAND	S21-W8X §	RRX	2.1	R	<b>64.1</b>	33.4	18.9	11.6	0	560	4	<b>68.8</b>	<b>59.2</b>	65.3	62.9
CORNELIUS	CB20X22	RRX	2.0	R	<b>63.2</b>	33.2	18.5	12.0	0	553	5	<b>68.4</b>	54.6	62.7	<b>67.2</b>
NK BRAND	S20-J5X §	RRX	2.0	R	<b>63.2</b>	<b>33.9</b>	18.7	11.4	0	553	6	<b>68.6</b>	55.2	63.9	65.1
GOLDEN HARVEST	GH2041X §	RRX	2.0	R	63.0	<b>34.1</b>	18.6	11.5	0	552	7	<b>68.5</b>	53.2	63.7	<b>66.7</b>
FEDERAL	2280N R2X	RRX	2.2	R	62.9	32.9	<b>19.6</b>	12.1	0	550	8	<b>68.4</b>	54.3	<b>66.3</b>	62.6
FEDERAL	2190N R2X	RRX	2.1	R	62.8	<b>33.6</b>	18.9	11.9	0	549	9	<b>67.4</b>	54.3	65.5	63.9
PIONEER	P23A32X §	RRX	2.3	R	62.7	33.3	19.1	12.2	0	549	10	65.6	52.2	64.8	<b>68.3</b>
ASGROW	AG20X9 §	RRX	2.0	R	62.6	32.7	18.6	11.8	0	547	11	66.8	<b>61.0</b>	61.7	60.7
CREDENZ	CZ 2230GTLL	LG27	2.2	MR	62.5	<b>34.7</b>	18.2	11.9	0	547	12	63.1	55.9	62.4	<b>68.5</b>
ASGROW	AG21X9 GC	RRX	2.1	R	62.5	32.0	<b>19.7</b>	11.9	0	547	13	<b>70.3</b>	55.6	56.3	<b>67.7</b>
CREDENZ	CZ 2040GTLL	LG27	2.0	R	62.5	33.5	19.2	11.4	0	547	14	65.7	54.8	<b>67.0</b>	62.3
GOLDEN HARVEST	GH2230X §	RRX	2.2	R	62.2	32.9	<b>19.3</b>	11.3	0	544	15	<b>69.0</b>	49.6	64.3	65.8
GOLD COUNTRY	2038X	RRX	2.0	R	62.1	<b>34.1</b>	18.4	11.7	0	544	16	<b>67.8</b>	54.6	63.9	62.3
PIONEER	P22T73R GC	RR	2.2	R	62.0	33.1	19.1	12.3	0	542	17	65.6	54.4	61.8	<b>66.2</b>
LATHAM	L 2159 R2X	RRX	2.1	R	62.0	32.8	18.6	11.9	0	542	18	65.0	<b>59.2</b>	59.0	64.7
GOLD COUNTRY	2249X	RRX	2.2	R	61.8	32.7	<b>19.9</b>	13.2	0	539	19	62.6	54.0	64.2	<b>66.3</b>
TITAN PRO	20GL8	LG27	2.0	R	60.9	32.8	<b>19.5</b>	11.5	0	533	20	62.9	53.0	64.7	63.0
HEFTY	Z2000E	E3	2.0	R	60.6	<b>33.8</b>	18.5	12.2	0	530	21	64.3	55.2	60.8	62.0
RENK	RS200NX	RRX	2.1	R	60.5	32.8	18.5	11.9	0	529	22	65.2	52.4	59.3	64.9
LATHAM	L 2228R2	RR2Y	2.2	R	60.4	32.9	19.1	11.6	0	529	23	63.1	53.4	60.8	64.5
HEFTY	H20X0	RRX	2.0	R	60.3	32.9	18.5	11.9	0	528	24	66.2	52.3	58.2	64.7
ANDERSON	20LG20	LG27	2.0	MR	60.3	33.1	<b>19.4</b>	11.2	0	528	25	62.7	50.3	61.9	<b>66.2</b>
THUNDER	SB8021N GC	RRX	2.1	R	60.2	32.6	18.7	11.8	0	527	26	64.1	49.5	63.4	63.7
CREDENZ	CZ 2360GTLL	LG27	2.3	MR	60.1	33.1	<b>19.3</b>	12.3	0	525	27	61.1	53.6	61.3	64.3
LATHAM	L 2193 E3	E3	2.1	R	59.9	<b>33.7</b>	18.6	12.1	0	525	28	63.0	52.4	61.1	63.3
TITAN PRO	23E9	E3	2.3	R	59.8	31.9	19.0	13.1	0	523	29	60.1	51.9	65.8	61.5
CORNELIUS	P3 2021E	E3	2.1	R	59.5	<b>33.9</b>	18.7	12.2	0	521	30	63.7	51.3	60.0	63.1
GOLD COUNTRY	1939X CK	RRX	1.9	R	59.0	32.9	19.2	11.7	0	516	37	63.2	53.2	58.0	61.5

<b>Averages =</b>	<b>60.6</b>	<b>33.1</b>	<b>19.0</b>	<b>12.0</b>	<b>0</b>	<b>530</b>	<b>63.9</b>	<b>52.4</b>	<b>62.4</b>	<b>63.7</b>
LSD (0.10) =	2.5	0.4	0.2	0.3	ns		3.5	4.8	3.6	2.5
LSD (0.25) =	1.3	0.2	0.1	0.2	ns		1.8	2.5	1.9	1.3

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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

† 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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## 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

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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

### Soybean Cyst Nematode (SCN) Resistance Rating

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

### Soybeans Technologies\*

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E3	Enlist E3™
LG27 or G27	LibertyLink® 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