

Test by: Southern MN FIRST New Richland, MN

## 2020 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 S2020MNSC08a
<b>Top 30 of 48</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Peas, Rye Cover / Prowl, Sharpen
<b>SOIL DESCRIPTION:</b>	Klinger silt loam, mod. well drained, non-irrigated
<b>SOIL CONDITION:</b>	high P, high K, 7.1 pH, 2.9% OM, 12.4 CEC
<b>TILLAGE/CULTIVATION:</b>	No-Till
<b>PEST MANAGEMENT:</b>	Flexstar, Section 3
<b>Applied N-P-K (units):</b>	0-0-0
<b>SEEDED - RATE - ROW:</b>	May 6 140.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 9 122.7 /A

### TEST COMMENTS:

*This site was planted on a slight north to south slope, so excess rainfall did not pond here. Spring and summer weather was ideal. Temps were warm in June, July, and August, yet not above 90 degrees. Rainfall was ideal through July, but August was dry. There was enough subsoil moisture to fill pods quite well. Plants were of average height and showed some branching, but no real lodging.*

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
HEFTY	H18X8	RRX	1.8	MR	<b>75.7</b>	8.9	0	124.3	719	1
GENESIS	G1650E	E3	1.6	R	<b>74.5</b>	8.1	0	123.0	708	2
GENESIS	G1680GL GC	LLGT27	1.6	R	<b>74.3</b>	8.6	0	122.3	706	3
GENESIS	G1750E	E3	1.7	R	<b>73.8</b>	8.3	0	122.3	701	4
LATHAM	L 1858 R2	RR2Y	1.8	R	<b>73.5</b>	8.5	0	123.3	698	5
LATHAM	L 1648 LLGT27	LLGT27	1.6	R	<b>72.3</b>	8.4	0	123.7	687	7
PIONEER	P15A88X §	RRX	1.5	R	<b>72.2</b>	8.6	0	122.7	686	8
TITAN PRO	15GL9	LLGT27	1.5	R	<b>72.1</b>	8.5	0	124.7	685	9
CREDENZ	CZ 1660GTLL	LLGT27	1.6	MR	<b>71.9</b>	8.5	0	123.7	683	10
RENK	RS150NX	RRX	1.5	R	<b>71.9</b>	8.4	0	121.3	683	11
HEFTY	H18X1	RRX	1.8	R	<b>71.8</b>	8.4	0	123.0	682	12
LOYAL	L1430E	E3	1.4	R	<b>71.6</b>	8.5	0	124.7	680	13
GOLD COUNTRY	1609X	RRX	1.6	R	71.2	9.7	0	123.7	676	14
FEDERAL	F1709N	LLGT27	1.7	R	70.4	8.5	0	123.7	669	15
APEX	AE1710	E3	1.7	R	70.2	8.8	0	122.7	667	16
TITAN PRO	17E0	E3	1.7	R	69.6	8.9	0	122.3	661	17
LATHAM	L 1758 E3	E3	1.7	R	69.4	9.6	0	122.0	659	18
ASGROW	AG17X8 §	RRX	1.7	R	68.8	8.9	0	121.7	654	19
NK BRAND	S14-U9X	RRX	1.4	MR	68.6	8.3	0	122.7	652	20
LATHAM	L 1769 R2X	RRX	1.7	R	68.5	9.0	0	122.3	651	21
PIONEER	P18A98X §	RRX	1.8	R	68.1	8.6	0	121.7	647	22
RENK	RS181NX	RRX	1.8	R	68.0	9.2	0	123.0	646	23
DYNA-GRO	S17EN80	E3	1.7	R	68.0	10.0	0	124.3	646	24
ZINESTO	Z1601E	E3	1.6	R	67.2	8.3	0	123.0	638	25
VIKING	1518N	CONV	1.5	MR	67.1	8.5	0	121.7	637	26
HEFTY	H16X1	RRX	1.6	R	67.1	9.2	0	122.7	637	27
ANDERSON	179RXT	RRX	1.7	MR	66.3	8.5	0	122.3	630	28
ANDERSON	180RXT	RRX	1.8	MR	66.2	8.3	0	121.7	629	29
TITAN PRO	18E9	E3	1.8	R	66.0	9.9	0	123.3	627	30
TITAN PRO	15E0	E3	1.5	R	66.0	9.0	0	121.7	627	31
ASGROW	AG21X9 CK	RRX	2.1	R	72.5	9.1	0	123.0	689	6

*Mark Querna*

Mark Querna

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Averages = **67.3** **8.8** **0** **122.7** **639**

LSD (0.10) = 4.2 0.6 ns

LSD (0.25) = 2.2 0.3 ns

C.V. = 5.9

Historic yield: 58.5 bu/a, 2 yr(s)

**Yield & Income Factors:** Base Moisture = 13.0% Shrink = 1.4 Drying = \$0.04 Prices: GMO = \$9.50

Report Date: 10/09/2020

† 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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Jeff Beckman, Goodhue County, MN 55018

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<b>PEST MANAGEMENT:</b>	Flexstar, Section 3
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### TEST COMMENTS:

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Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
LATHAM	L 2228 R2	RR2Y	2.2	R	<b>76.6</b>	8.2	0	122.7	728	1
GENESIS	G2150E	E3	2.1	R	<b>76.6</b>	8.1	0	122.0	728	2
VIKING	2155N	CONV	2.1	MR	<b>76.0</b>	10.1	0	124.3	722	3
ASGROW	AG20X9 §	RRX	2.0	R	<b>76.0</b>	8.1	0	122.7	722	4
APEX	AE2110	E3	2.1	R	<b>75.9</b>	8.2	0	122.3	721	5
ZINESTO	Z2101G	LLGT27	2.1	R	<b>75.2</b>	8.0	0	124.3	714	6
STINE	19EC32 §	E3	1.9	R	<b>74.6</b>	8.2	0	123.3	709	7
GENESIS	G2190GL	LLGT27	2.1	R	<b>74.6</b>	8.5	0	122.7	709	8
DYNA-GRO	S21XT49	RRX	2.1	R	<b>74.2</b>	8.3	0	124.3	705	9
LOYAL	L1930E	E3	1.9	R	<b>73.3</b>	8.2	0	123.7	696	10
APEX	AE1910	E3	1.9	R	<b>72.9</b>	7.9	0	121.7	693	11
TITAN PRO	20E9	E3	2.0	R	<b>72.6</b>	8.8	0	122.7	690	12
LOYAL	L2130E	E3	2.1	R	<b>72.2</b>	8.3	0	123.7	686	13
DYNA-GRO	S19EN21	E3	1.9	R	<b>72.1</b>	7.8	0	122.3	685	14
GOLDEN HARVEST	GH2011E3	E3	2.0	MR	<b>72.1</b>	8.5	0	122.3	685	15
PIONEER	P21A28X §	RRX	2.1	R	<b>71.8</b>	8.3	0	122.3	682	16
LATHAM	L 2184 R2X	RRX	2.1	R	<b>71.5</b>	8.1	0	122.3	679	17
GOLD COUNTRY	2249X	RRX	2.2	R	<b>71.2</b>	10.0	0	124.0	676	18
FEDERAL	F2001N	E3	2.0	R	<b>70.9</b>	8.7	0	124.3	674	19
LATHAM	L 2084 R2	RR2Y	2.0	R	<b>70.4</b>	8.5	0	123.7	669	20
ZINESTO	Z1900E	E3	1.9	R	<b>70.3</b>	8.4	0	122.7	668	21
ASGROW	AG19X0 §	RRX	1.9	R	<b>70.3</b>	8.9	0	123.3	668	22
CREDENZ	CZ 2040GTLL	LLGT27	2.0	R	<b>70.2</b>	8.2	0	121.7	667	23
ZINESTO	Z2101E	E3	2.1	R	<b>70.1</b>	8.5	0	124.7	666	24
ANDERSON	217RXT	RRX	2.0	MR	<b>70.1</b>	8.2	0	121.7	666	25
ZINESTO	Z2001E	E3	2.0	R	<b>69.7</b>	8.4	0	122.7	662	26
CREDENZ	CZ 2360GTLL	LLGT27	2.3	MR	<b>69.1</b>	8.9	0	122.7	656	27
GOLDEN HARVEST	GH1915X	RRX	1.9	R	<b>69.0</b>	7.6	0	123.0	656	28
TITAN PRO	21E0	E3	2.1	R	<b>68.9</b>	8.2	0	124.0	655	29
DAIRYLAND	E20-101E	E3	2.2	R	<b>68.7</b>	9.0	0	122.7	653	30
ASGROW	AG21X9 CK	RRX	2.1	R	<b>67.1</b>	8.9	0	121.3	637	37

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Averages = **69.8** **8.5** **0** **122.7** **663**

LSD (0.10) = 3.5 0.5 ns

LSD (0.25) = 1.8 0.2 ns

C.V. = 4.7

Historic yield: 58.5 bu/a, 2 yr(s)

**Yield & Income Factors:** Base Moisture = 13.0% Shrink = 1.4 Drying = \$0.04 Prices: GMO = \$9.50

## 2020 Soybeans - Minnesota South Central [ MNSC ]

### Early-Season Test Products (48 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
ANDERSON	159RXT	RRX	MR	1.5	Untreated
ANDERSON	179RXT	RRX	MR	1.7	Untreated
ANDERSON	180RXT	RRX	MR	1.8	Untreated
ANDERSON	A180E3	E3	NA	1.8	Untreated
APEX	AE1710	E3	R	1.7	CMBV,SA
ASGROW	AG17X8 §	RRX	R	1.7	ACi,IL
ASGROW	AG21X9 CK	RRX	R	2.1	Treated
CREDENZ	CZ 1660GTLL	LLGT27	MR	1.6	PV,IL,OB
CREDENZ	CZ 1859GTLL	LLGT27	R	1.8	PV,IL,OB
DAIRYLAND	DSR-1673E	E3	R	1.6	Lum,Lu,IL
DYNA-GRO	S17EN80	E3	R	1.7	EQV,SA
DYNA-GRO	S17XT29	RRX	R	1.7	EQV,SA
FEDERAL	F1601N	E3	NA	1.6	Untreated
FEDERAL	F1709N	LLGT27	R	1.7	Untreated
GENESIS	G1450E	E3	R	1.4	CMBV,SA
GENESIS	G1650E	E3	R	1.6	CMBV,SA
GENESIS	G1680GL GC	LLGT27	R	1.6	EcTC
GENESIS	G1750E	E3	R	1.7	CMBV,SA
GOLD COUNTRY	1609X	RRX	R	1.6	ACi,IL
GOLDEN HARVEST	GH1638X §	RRX	MR	1.6	CMBV,SA
GOLDEN HARVEST	GH1763E3	E3	MR	1.7	CMBV,SA
HCI	HC-02 GC	CONV	NA	0.2	Untreated
HEFTY	H16X1	RRX	R	1.6	HCS
HEFTY	H17X9	RRX	MR	1.7	HCS
HEFTY	H18X1	RRX	R	1.8	HCS
HEFTY	H18X8	RRX	MR	1.8	HCS
LATHAM	L 1648 LLGT27	LLGT27	R	1.6	SS+
LATHAM	L 1758 E3	E3	R	1.7	SS+
LATHAM	L 1769 R2X	RRX	R	1.7	SS+
LATHAM	L 1858 R2	RR2Y	R	1.8	SS+
LOYAL	L1430E	E3	R	1.4	CMBV,SA
NK BRAND	S04-K9 GC	CONV	R	0.4	ViM,NO
NK BRAND	S14-U9X	RRX	MR	1.4	CMBV,SA
NK BRAND	S16-K2X	RRX	MR	1.6	CMBV,SA
NK BRAND	S18-R6 GC	CONV	R	1.8	Untreated
PIONEER	P15A88X §	RRX	R	1.5	Lum,Lu

Company/Brand	Brand/Product	Technology	RM	SCN	Seed Treat.
PIONEER	P18A98X §	RRX	R	1.8	Lum,Lu
PROSEEDS	SKYLINE GC	CONV	R	1.1	Untreated
RENK	RS150NX	RRX	R	1.5	EcTC
RENK	RS181NX	RRX	R	1.8	EcTC
STINE	16EC32 §	E3	R	1.6	VFI,SA
TITAN PRO	15E0	E3	R	1.5	SA,A,R,G
TITAN PRO	15GL9	LLGT27	R	1.5	SA,A,R,G
TITAN PRO	17E0	E3	R	1.7	SA,A,R,G
TITAN PRO	18E9	E3	R	1.8	SA,A,R,G
VIKING	1518N	CONV	MR	1.5	Untreated
ZINESTO	Z1601E	E3	R	1.6	DST
ZINESTO	Z1701G	LLGT27	R	1.7	DST

## 2020 Soybeans - Minnesota South Central [ MNSC ]

### Full-Season Test Products (48 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
ANDERSON	217RXT	RRX	MR	2.0	Untreated
ANDERSON	A200E3	E3	NA	2.0	Untreated
APEX	AE1910	E3	R	1.9	CMBV,SA
APEX	AE2110	E3	R	2.1	CMBV,SA
ASGROW	AG19X0 §	RRX	R	1.9	ACi
ASGROW	AG20X9 §	RRX	R	2.0	ACi
ASGROW	AG21X9 CK	RRX	R	2.1	Treated
CREDENZ	CZ 2040GTLL	LLGT27	R	2.0	PV,IL,OB
CREDENZ	CZ 2360GTLL	LLGT27	MR	2.3	PV,IL,OB
DAIRYLAND	DSR-2030E	E3	R	1.9	Lum,Lu,IL
DAIRYLAND	DSR-2112E	E3	R	2.1	Lum,Lu,IL
DAIRYLAND	DSR-2259E	E3	R	2.2	Lum,Lu,IL
DAIRYLAND	E20-101E	E3	R	2.2	Lum,Lu,IL
DYNA-GRO	S19EN21	E3	R	1.9	EQV,SA
DYNA-GRO	S19XT30	RRX	R	1.9	EQV,SA
DYNA-GRO	S21XT49	RRX	R	2.1	EQV,SA
FEDERAL	F1901N	E3	R	1.9	Untreated
FEDERAL	F2001N	E3	R	2.0	Untreated
FEDERAL	F2201N	E3	R	2.2	Untreated
GENESIS	G1950E	E3	R	1.9	CMBV,SA
GENESIS	G2150E	E3	R	2.1	CMBV,SA
GENESIS	G2190GL	LLGT27	R	2.1	EcTC,SA
GOLD COUNTRY	2249X	RRX	R	2.2	ACi,IL
GOLDEN HARVEST	GH1915X	RRX	R	1.9	CMBV,SA
GOLDEN HARVEST	GH2011E3	E3	MR	2.0	CMBV,SA
LATHAM	L 2084 R2	RR2Y	R	2.0	SS
LATHAM	L 2184 R2X	RRX	R	2.1	SS+
LATHAM	L 2193 E3	E3	R	2.1	SS+
LATHAM	L 2228 R2	RR2Y	R	2.2	SS+
LEGEND	19E152N GC	E3	NA	1.9	YPP
LOYAL	L1930E	E3	R	1.9	CMBV,SA
LOYAL	L2130E	E3	R	2.1	CMBV,SA
NK BRAND	S20-J5X §	RRX	R	2.0	CMBV,SA
NK BRAND	S21-W8X §	RRX	R	2.1	CMBV,SA
PIONEER	P21A28X §	RRX	R	2.1	Lum,Lu
STINE	19EA32 §	E3	R	1.9	VFI,SA

Company/Brand	Brand/Product	Technology	RM	SCN	Seed Treat.
STINE	19EC32 §	E3	R	1.9	VFI,SA
TITAN PRO	19E0	E3	R	1.9	SA,A,R,G
TITAN PRO	20E9	E3	R	2.0	SA,A,R,G
TITAN PRO	21E0	E3	R	2.1	SA,A,R,G
TITAN PRO	22E8	E3	R	2.2	SA,A,R,G
VIKING	1940KN	CONV	R	1.9	AM
VIKING	2018N	CONV	MR	2.0	CMBV
VIKING	2155N	CONV	MR	2.1	CMBV
ZINESTO	Z1900E	E3	R	1.9	DST
ZINESTO	Z2001E	E3	R	2.0	DST
ZINESTO	Z2101E	E3	R	2.1	DST
ZINESTO	Z2101G	LLGT27	R	2.1	DST

## 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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CONV	Conventional
E3	Enlist™ E3
LLGT27	LibertyLink® GT27®
RR2Y	Roundup Ready 2 Yield®
RRX	Roundup Ready 2 Xtend®

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## Soybeans Seed Treatments\*\*

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NA	Not Available
ACi	Acceleron® Standard Insecticide-Fungicide
ACi,IL	Acceleron Standard Insecticide-Fungicide, ILeVO
AM	ApronMaxx
CMBV	CruiserMaxx Beans, Vibrance
CMBV,SA	Cruisermaxx, Vibrance, Saltro
DST	Dominance 2 ST
EcTC	Eclipse US Total Coverage Trio IM, N-Force
EcTC,SA	Eclipse US Total Coverage Trio IM, N-Force, Saltro
EQV,SA	Equity VIP, Saltro
HCS	Hefty Complete Soybeans
Lum,Lu	Lumigen, Lumisena™
Lum,Lu,IL	Lumigen, Lumisena™, ILeVO
PV,IL,OB	Poncho®/Votivo®, ILeVO, Obvius Plus
SA,A,R,G	Saltro, Allegiance FL, Redigo 480, Gaucho 600
SS	SoyShield
SS+	SoyShield Plus
Treated	Treated, unspecified
Untreated	No seed treatment
VFI,SA	Virile Fungicide+Insecticide, Saltro (BCS Consulting)
ViM,NO	Vibrance Maxx, Nodulator Pro
YPP	YP Pro, QuickRoots

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\*\* Seed treatments may include unspecified plant health promoting components.