

Test by: Southern MN FIRST New Richland, MN

2020 Soybeans Top 30 Harvest Report

Minnesota South Central [MNSC] WABASSO, MN
Leon Plaetz, Redwood County, MN 56293

Early-Season Test	1.5 - 1.8 Day CRM S2020MNSC05a
Top 30 of 48	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Tripleflex, Atrazine, Callisto
SOIL DESCRIPTION:	Okoboji silty clay loam, mod. well drained, non-irrigated
SOIL CONDITION:	high P, high K, 7.0 pH, 5.5% OM, 29.9 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Boundary, Flexstar, Section 3
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 7 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 5 126.6 /A

TEST COMMENTS:

The best spring weather in years gave the seedlings a great start. They hit their stride in June, and did not look back. Leon reports that the weather was constantly changing, and he credits that for the phenomenal yields. Warm temps, yet not hot temps, kept the plants happy. August had equal bits of "hot, wet, cool and dry" -- which is key for top yields in soybeans.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
HEFTY	H18X1	RRX	1.8	R	85.6	8.8	0	126.3	813	1
PIONEER	P15A88X §	RRX	1.5	R	83.4	8.5	0	126.7	792	3
DYNA-GRO	S17EN80	E3	1.7	R	82.8	10.2	0	129.0	787	4
CREDENZ	CZ 1660GTLL	LLGT27	1.6	MR	82.8	8.9	0	126.7	787	5
HEFTY	H18X8	RRX	1.8	MR	81.9	9.2	0	125.3	778	6
ANDERSON	180RXT	RRX	1.8	MR	81.2	8.7	0	124.3	771	7
GOLDEN HARVEST	GH1763E3	E3	1.7	MR	80.7	10.4	0	128.3	767	8
HEFTY	H16X1	RRX	1.6	R	80.3	8.7	0	127.3	763	9
LATHAM	L 1858 R2	RR2Y	1.8	R	80.1	9.1	0	127.7	761	10
TITAN PRO	18E9	E3	1.8	R	80.0	10.2	0	127.3	760	11
GOLD COUNTRY	1609X	RRX	1.6	R	79.8	9.2	0	126.7	758	12
NK BRAND	S14-U9X	RRX	1.4	MR	79.7	8.6	0	126.7	757	13
NK BRAND	S16-K2X	RRX	1.6	MR	79.6	9.1	0	127.0	756	14
RENK	RS181NX	RRX	1.8	R	79.5	8.9	0	126.3	755	15
LATHAM	L 1758 E3	E3	1.7	R	79.5	8.9	0	127.3	755	16
APEX	AE1710	E3	1.7	R	79.5	8.7	0	127.0	755	17
STINE	16EC32 §	E3	1.6	R	79.4	8.5	0	126.0	754	18
GENESIS	G1680GL GC	LLGT27	1.6	R	79.4	8.9	0	126.7	754	19
DYNA-GRO	S17XT29	RRX	1.7	R	78.7	8.9	0	127.3	748	20
GENESIS	G1450E	E3	1.4	R	78.6	9.4	0	126.7	747	21
GENESIS	G1750E	E3	1.7	R	78.2	9.0	0	124.7	743	22
TITAN PRO	15GL9	LLGT27	1.5	R	77.9	8.9	0	126.3	740	23
LOYAL	L1430E	E3	1.4	R	77.9	9.1	0	126.7	740	24
ZINESTO	Z1701G	LLGT27	1.7	R	77.4	8.6	0	126.3	735	25
GOLDEN HARVEST	GH1638X §	RRX	1.6	MR	77.3	9.2	0	127.7	734	26
ASGROW	AG17X8 §	RRX	1.7	R	77.3	8.6	0	126.0	734	27
GENESIS	G1650E	E3	1.6	R	75.8	8.4	0	128.0	720	28
RENK	RS150NX	RRX	1.5	R	75.8	8.6	0	126.0	720	29
TITAN PRO	17E0	E3	1.7	R	75.7	8.9	0	126.7	719	30
FEDERAL	F1601N	E3	1.6	NA	75.3	9.1	0	127.7	715	31
ASGROW	AG21X9 CK	RRX	2.1	R	84.2	9.3	0	124.7	800	2

Mark Querna

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Averages = **75.9** **8.9** **0** **126.6** **721**

LSD (0.10) = 4.3 0.4 ns

LSD (0.25) = 2.2 0.2 ns

C.V. = 5.3

Historic yield: 54.0 bu/a, 13 yr(s)

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

Report Date: 10/05/2020

† 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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Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
PIONEER	P21A28X §	RRX	2.1	R	84.7	9.5	0	123.7	805	1
LOYAL	L2130E	E3	2.1	R	84.1	9.5	0	126.7	799	2
GENESIS	G2150E	E3	2.1	R	83.0	9.4	0	126.7	788	3
STINE	19EC32 §	E3	1.9	R	82.4	8.9	0	126.3	783	4
APEX	AE2110	E3	2.1	R	81.8	9.3	0	127.0	777	5
GOLD COUNTRY	2249X	RRX	2.2	R	81.8	11.4	0	126.0	777	6
ZINESTO	Z2001E	E3	2.0	R	81.4	9.2	0	127.3	773	7
LATHAM	L 2193 E3	E3	2.1	R	80.9	10.0	0	126.3	769	8
ZINESTO	Z2101E	E3	2.1	R	80.4	9.4	0	126.3	764	9
TITAN PRO	20E9	E3	2.0	R	80.2	9.6	0	127.3	762	10
LEGEND	19E152N GC	E3	1.9	NA	80.1	10.3	0	127.3	761	11
ASGROW	AG20X9 §	RRX	2.0	R	80.0	8.9	0	127.3	760	12
ZINESTO	Z2101G	LLGT27	2.1	R	80.0	9.2	0	128.0	760	13
LATHAM	L 2228 R2	RR2Y	2.2	R	79.8	9.6	0	127.0	758	14
GOLDEN HARVEST	GH2011E3	E3	2.0	MR	79.7	9.6	0	127.7	757	15
APEX	AE1910	E3	1.9	R	79.4	9.0	0	125.0	754	16
NK BRAND	S20-J5X §	RRX	2.0	R	78.9	8.5	0	124.7	750	17
NK BRAND	S21-W8X §	RRX	2.1	R	78.6	8.7	0	127.7	747	18
TITAN PRO	21E0	E3	2.1	R	78.4	9.6	0	126.0	745	19
ZINESTO	Z1900E	E3	1.9	R	78.3	10.1	0	126.3	744	20
GENESIS	G2190GL	LLGT27	2.1	R	78.3	9.5	0	126.3	744	21
ANDERSON	217RXT	RRX	2.0	MR	78.1	9.0	0	125.7	742	22
FEDERAL	F2001N	E3	2.0	R	78.0	9.2	0	126.3	741	23
DYNA-GRO	S19EN21	E3	1.9	R	78.0	9.9	0	126.7	741	24
ASGROW	AG19X0 §	RRX	1.9	R	77.8	9.6	0	126.3	739	25
STINE	19EA32 §	E3	1.9	R	77.4	9.5	0	129.0	735	26
LATHAM	L 2184 R2X	RRX	2.1	R	76.6	9.3	0	126.7	728	27
GENESIS	G1950E	E3	1.9	R	76.4	9.0	0	126.0	726	28
DAIRYLAND	DSR-2112E	E3	2.1	R	76.1	12.5	0	127.0	723	29
GOLDEN HARVEST	GH1915X	RRX	1.9	R	75.8	8.5	0	125.3	720	31
ASGROW	AG21X9 CK	RRX	2.1	R	76.1	8.8	0	124.7	723	30

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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

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*

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

Soybeans Seed Treatments**

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

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