

2018 Soybean Top 30 Harvest Report
 Minnesota South Central [MNSC] MADISON LAKE
 Mike Krenik, Le Sueur County, MN 56063



PREV. CROP/HERB: Corn / SureStart II
 SOIL DESCRIPTION: Lesueur loam, moderately drained, non-irrigated
 SOIL CONDITIONS: Very high P, very high K, 6.4 pH, 5.8% OM, 24.7 CEC
 TILLAGE/CULTIVATION: Conventional w/ fall till
 PEST MANAGEMENT: Sonic, Flexstar GT, Warrior
 APPLIED N-P-K (units): 0-0-0
 SEEDED - RATE - ROW: May 22 140,000 /A 30" Spacing
 HARVESTED - STAND: Oct 25 128,500 /A

Early-Season Test
Maturity Group 1.5 - 1.8
 S2018MNSC02a

Top 30 of 42

For Gross Income (Sorted by Yield)
 Average of (3) Replications

Company/Brand	Product/Brand†	Technol.†	Mat.	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
LG Seeds	C1838RX	RRX	1.8	R	68.8	9.5	0	130.2	\$568	1
Proseed	XT71-40	RRX	1.4	R	67.0	9.8	1	129.7	\$553	2
Asgrow	AG17X8 GC	RRX	1.7	R	65.8	9.8	1	122.3	\$543	3
Prairie Brand	PB-1566R2	RR2Y	1.6	R	65.6	9.8	1	124.6	\$541	4
Golden Harvest	GH1852X	RRX	1.8	R	65.4	9.8	0	130.7	\$540	5
NK Brand	S18-G4X §	RRX	1.8	R	64.8	9.6	2	128.8	\$535	6
Titan Pro	TP 18X97	RRX	1.8	MR	64.2	9.6	1	131.6	\$530	7
Hefty	H17X9	RRX	1.7	MR	62.6	10.5	1	131.1	\$516	8
Latham	L1858R2	RR2Y	1.8	R	62.5	9.8	1	130.2	\$516	9
Latham	L1748R2	RR2Y	1.7	R	61.8	9.9	1	131.6	\$510	10
Pioneer	P16A35X §	RRX	1.6	R	60.9	9.7	2	129.3	\$502	11
Dyna-Gro	S18XT38	RRX	1.8	MR	60.8	9.6	0	132.1	\$502	12
Thunder	3914R2YN GC	RR2Y	1.4	R	60.8	9.9	1	126.5	\$502	13
Dyna-Gro	S16XT58	RRX	1.6	R	60.6	10.1	2	130.7	\$500	14
Dairyland	DSR-1721/R2Y	RR2Y	1.7	R	59.6	10.5	1	122.3	\$492	15
Anderson	188RXT	RRX	1.8	MR	58.2	9.5	0	129.3	\$480	16
Anderson	168RXT	RRX	1.6	MR	57.4	9.9	2	130.2	\$474	17
Titan Pro	TP 16X77	RRX	1.6	MR	57.3	10.0	1	130.2	\$473	18
NorthStar	NS 61624NXR2	RRX	1.6	MR	57.1	10.0	0	131.1	\$471	20
Latham	L1845R2X	RRX	1.8	MR	56.4	9.3	0	128.3	\$465	21
Renk	RS188NX	RRX	1.8	R	56.1	9.4	1	125.1	\$463	22
Dairyland	DSR-1526/R2Y	RR2Y	1.5	R	55.8	9.8	1	129.7	\$460	23
Federal	F1690NR2X	RRX	1.6	R	55.7	10.2	1	129.3	\$460	24
NK Brand	S18-H3X	RRX	1.8	R	55.7	9.7	1	131.1	\$460	25
Federal	F1880NR2X	RRX	1.8	R	55.3	9.4	0	130.7	\$456	26
Renk	RS169NX	RRX	1.6	R	55.2	10.1	1	130.7	\$455	27
Dairyland	DSR-1870/R2Y	RR2Y	1.8	R	54.7	10.0	0	132.1	\$451	28
AgriGold	G1710RX GC	RRX	1.7	R	54.6	10.0	1	130.7	\$450	29
Anderson	159RXT	RRX	1.5	MR	54.2	7.6	0	118.5	\$447	30
Renk	RS149NX	RRX	1.4	R	53.8	9.8	1	130.2	\$444	31
NuTech	7198 CK	RR	1.9	R	57.3	9.8	1	131.6	\$473	19

Mark Querna

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Averages =	57.5	9.8	1	128.5	\$475
LSD (0.10) =	5.8	0.7	0.9		
LSD (0.25) =	3.1	0.4	0.5		
C.V. =	9.6				

Prev. years avg. yield, 55.2 bu/a, 11 yrs

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.020 Prices = \$8.25 GMO; \$8.25 non-GMO

TEST COMMENTS: *Planting was delayed due to April snow and early May rain. Planting conditions were good. Post herbicide application was delayed due to rain in June. Rainfall was as follows: May - 3.75"; June - 9.36"; July - 3.79"; August - 3.47", with more rain in September and October. Mike sprayed Warrior for aphids in August. This site was located on fairly level ground, so yields dipped in slightly lower areas.*

† See last page for abbreviation descriptions. Results in **bold** are significantly above test average by LSD (0.10). **ns** = column values not significantly different.

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Report Date: 10/28/2018 Revised:

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 PEST MANAGEMENT: Sonic, Flexstar GT, Warrior
 APPLIED N-P-K (units): 0-0-0
 SEEDED - RATE - ROW: May 22 140,000 /A 30" Spacing
 HARVESTED - STAND: Oct 25 130,100 /A

Full-Season Test
Maturity Group 1.9 - 2.2
 S2018MNSC02b

Top 30 of 42

For Gross Income (Sorted by Yield)
 Average of (3) Replications

Company/Brand	Product/Brand†	Technol.†	Mat.	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Hefty	H22X8	RRX	2.2	MR	69.7	9.8	0	132.5	\$575	1
NorthStar	NS 1911NR2	RR2Y	1.9	MR	68.9	9.7	2	131.6	\$568	2
LG Seeds	LGS2007RX	RRX	2.0	R	68.3	9.5	1	124.6	\$563	3
AgriGold	G2250RX GC	RRX	2.2	R	67.0	9.6	0	130.7	\$553	4
Renk	RS207NX	RRX	2.0	R	66.9	9.5	1	131.6	\$552	5
Hefty	H21X9	RRX	2.1	MR	66.3	9.5	1	132.1	\$547	6
Federal	F2190NR2X	RRX	2.1	R	65.9	9.5	1	129.7	\$544	7
Titan Pro	TP 20X98	RRX	2.0	MR	65.7	9.5	1	132.1	\$542	8
Renk	RS219NX	RRX	2.1	R	65.5	9.6	0	132.1	\$540	9
Stine	20RD20 §	RR2Y	2.0	R	65.1	9.6	1	130.7	\$537	10
Latham	L2295R2X	RRX	2.2	R	65.1	9.8	3	130.7	\$537	11
Pfister	20R23	RR2Y	2.0	R	63.8	9.8	1	131.6	\$526	12
Hefty	H20X7	RRX	2.0	MR	63.5	9.7	1	130.2	\$524	13
NK Brand	S20-J5X §	RRX	2.0	R	63.4	9.7	2	132.1	\$523	14
Renk	RS213NR2	RR2Y	2.1	R	63.3	9.8	2	129.3	\$522	15
Pioneer	P22T73R §	RR	2.2	R	63.0	9.8	0	132.1	\$520	16
AgriGold	G2105RX GC	RRX	2.1	R	62.5	9.6	1	131.1	\$516	17
Dairyland	DSR-2197/R2Y	RR2Y	2.1	R	62.3	9.6	0	130.7	\$514	18
Titan Pro	TP 22X68	RRX	2.2	MR	62.2	9.6	1	132.5	\$513	19
Stine	21RI32 §	RR2Y	2.1	R	62.1	9.5	0	132.5	\$512	20
Asgrow	AG20X7 §	RRX	2.0	R	61.9	9.8	3	131.1	\$511	21
Latham	L2228R2	RR2Y	2.2	R	61.0	9.9	1	130.7	\$503	22
AgriGold	G1990RX GC	RRX	1.9	R	60.8	9.5	1	123.2	\$502	23
Asgrow	AG21X7 §	RRX	2.1	R	60.6	9.7	1	131.1	\$500	24
Federal	F2280NR2X	RRX	2.2	R	60.5	9.5	0	131.1	\$499	25
Golden Harvest	GH2230X	RRX	2.2	R	60.4	9.7	3	131.1	\$498	26
Anderson	217RXT	RRX	2.0	MR	59.4	9.6	3	129.7	\$490	27
Dairyland	DSR-2062/R2Y GC	RR	2.2	R	58.8	9.8	0	131.6	\$485	28
Dyna-Gro	S21XT49	RRX	2.1	R	58.7	9.4	1	127.4	\$484	29
Dairyland	DSR-2110/R2Y	RR2Y	2.1	R	56.7	9.7	1	128.8	\$468	30
NuTech	7198 CK	RR	1.9	R	52.5	9.6	2	131.6	\$433	39

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Averages =	60.4	9.6	1	130.1	\$498
LSD (0.10) =	5.7	0.2	1.8		
LSD (0.25) =	3.0	0.1	0.9		
C.V. =	8.9				

Prev. years avg. yield, 55.2 bu/a, 11 yrs

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.020 Prices = \$8.25 GMO; \$8.25 non-GMO

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Report Date: 10/28/2018 Revised:

2018 Soybean - Minnesota South Central [MNSC]

Early-Season Test Products (42 Total)

Company/Brand	Product/Brand	Technol.	Mat.	SCN	Seed Trt	Company/Brand	Product/Brand	Technol.	Mat.	SCN	Seed Trt
AgriGold	G1502RX GC	RRX	1.5	R	ASfi,IL						
AgriGold	G1710RX GC	RRX	1.7	R	ASfi,IL						
Anderson	159RXT	RRX	1.5	MR	None						
Anderson	168RXT	RRX	1.6	MR	None						
Anderson	188RXT	RRX	1.8	MR	None						
Asgrow	AG17X8 GC	RRX	1.7	R	AC,PV						
Dairyland	DSR-1526/R2Y	RR2Y	1.5	R	CMB						
Dairyland	DSR-1721/R2Y	RR2Y	1.7	R	CMB						
Dairyland	DSR-1870/R2Y	RR2Y	1.8	R	CMB						
Dyna-Gro	S16XT58	RRX	1.6	R	EQV,Ci						
Dyna-Gro	S18XT38	RRX	1.8	MR	EQV,Ci						
Dyna-Gro	SX18716XT	RRX	1.6	R	EQV,Ci						
Federal	F1690NR2X	RRX	1.6	R	None						
Federal	F1880NR2X	RRX	1.8	R	None						
Federal	F195NRR2Y	RR2Y	1.9	R	None						
Golden Harvest	GH1852X	RRX	1.8	R	CCB,Me						
Hefty	H16X8	RRX	1.6	MR	DST						
Hefty	H17X9	RRX	1.7	MR	DST						
Hefty	H18X8	RRX	1.8	MR	DST						
Latham	L1748R2	RR2Y	1.7	R	SS,IL						
Latham	L1769R2X	RRX	1.7	R	SS+						
Latham	L1845R2X	RRX	1.8	MR	SS						
Latham	L1858R2	RR2Y	1.8	R	SS+						
LG Seeds	C1838RX	RRX	1.8	R	ASfi,IL						
LG Seeds	LGS1575RX	RRX	1.5	R	ASfi,IL						
NK Brand	S18-G4X §	RRX	1.8	R	None						
NK Brand	S18-H3X	RRX	1.8	R	CCB,Me						
NorthStar	NS 61624NXR2	RRX	1.6	MR	CCB						
NuTech	7198 CK	RR	1.9	R	None						
Pioneer	P15T46R2 §	RR2Y	1.5	R	None						
Pioneer	P16A35X §	RRX	1.6	R	None						
Prairie Brand	PB-1566R2	RR2Y	1.6	R	CMB						
Proseed	XT71-40	RRX	1.4	R	CMB						
Renk	RS149NX	RRX	1.4	R	EcTC						
Renk	RS169NX	RRX	1.6	R	EcTC						
Renk	RS188NX	RRX	1.8	R	EcTC						
Thunder	3914R2YN GC	RR2Y	1.4	R	Ret						
Thunder	SB8814N GC	RRX	1.4	R	Ret						
Thunder	SB8818N GC	RRX	1.8	R	Ret						
Thunder	SB8916N GC	RRX	1.6	R	Ret						
Titan Pro	TP 16X77	RRX	1.6	MR	None						
Titan Pro	TP 18X97	RRX	1.8	MR	IL,PV						

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Full-Season Test Products (42 Total)

Company/Brand	Product/Brand	Technol.	Mat.	SCN	Seed Trt	Company/Brand	Product/Brand	Technol.	Mat.	SCN	Seed Trt
AgriGold	G1990RX GC	RRX	1.9	R	ASfi,IL						
AgriGold	G2105RX GC	RRX	2.1	R	ASfi,IL						
AgriGold	G2250RX GC	RRX	2.2	R	ASfi,IL						
Anderson	217RXT	RRX	2.0	MR	None						
Asgrow	AG19X8 §	RRX	1.9	R	AC,PV						
Asgrow	AG20X7 §	RRX	2.0	R	AC,PV						
Asgrow	AG21X7 §	RRX	2.1	R	AC,PV						
Dairyland	DSR-1950/R2Y	RR2Y	1.9	R	CMB						
Dairyland	DSR-2062/R2Y GC	RR	2.2	R	None						
Dairyland	DSR-2110/R2Y	RR2Y	2.1	R	CMB						
Dairyland	DSR-2197/R2Y	RR2Y	2.1	R	CMB						
Dyna-Gro	S21XT49	RRX	2.1	R	EQV,Ci						
Dyna-Gro	SX18822XP	RRX	2.2	R	EQV,Ci						
Federal	F2190NR2X	RRX	2.1	R	None						
Federal	F2280NR2X	RRX	2.2	R	None						
Federal	F2290NR2X	RRX	2.2	R	None						
Golden Harvest	GH1915X	RRX	1.9	R	CCB,Me						
Golden Harvest	GH2230X	RRX	2.2	R	CCB,Me						
Hefty	H20X7	RRX	2.0	MR	DST						
Hefty	H21X9	RRX	2.1	MR	DST						
Hefty	H22X8	RRX	2.2	MR	DST						
Latham	L2084R2	RR2Y	2.0	R	SS+						
Latham	L2228R2	RR2Y	2.2	R	SS+						
Latham	L2239R2X	RRX	2.2	R	SS+						
Latham	L2295R2X	RRX	2.2	R	SS+						
LG Seeds	LGS2007RX	RRX	2.0	R	ASfi,IL						
NK Brand	S20-J5X §	RRX	2.0	R	CCB,Me						
NK Brand	S21-W8X §	RRX	2.1	R	CCB,Me						
NorthStar	NS 1911NR2	RR2Y	1.9	MR	CCB						
NuTech	7198 CK	RR	1.9	R	None						
Pfister	20R23	RR2Y	2.0	R	CCB						
Pioneer	P19A14X GC	RRX	1.9	R	None						
Pioneer	P22T73R §	RR	2.2	R	None						
Renk	RS207NX	RRX	2.0	R	EcTC						
Renk	RS213NR2	RR2Y	2.1	R	EcTC						
Renk	RS219NX	RRX	2.1	R	EcTC						
Stine	19BA23 GC	G27	2.0	R	None						
Stine	19RF32 §	RR2Y	1.9	R	SF						
Stine	20RD20 §	RR2Y	2.0	R	SF						
Stine	21RI32 §	RR2Y	2.1	R	SF						
Titan Pro	TP 20X98	RRX	2.0	MR	IL,PV						
Titan Pro	TP 22X68	RRX	2.2	MR	None						

Footnotes and Abbreviation Descriptions

Brand Footnotes

^	Innotech™ brand seed is distributed by Rob-See-Co, LLC. Innotech™ is a trademark of Syngenta.
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 Technologies

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

Soybean Cyst Nematode (SCN) Resistance Rating

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

Soybean Seed Treatments*

?	Information not provided	Gr+	Great Start™ Max Plus
A2020	Alert 2020™	I	insecticide
AC	Acceleron® fungicide products	IL	ILeVO®
ACi	Acceleron® fungicide and insecticide products	In	Intego™ Solo
AM	ApronMaxx®	IS	Intego™ Suite
ASfi	AgriShield® F+I	Lu	Lumisena™
AVB	Avicta® Complete Beans	Me	Mertect®
AVBV	Avicta® Complete Beans with Vibrance	None	untreated
BB	Buckeye Boost ST	Pd	proTect D™
CCB	Clariva™ Complete Beans	PG+	Profit Guard +™
CI	Clariva™ pn	PS	MAS Pro-Shield
CMB	CruiserMaxx® Beans	PV	Poncho®/Votivo®
CMBV	CruiserMaxx® Beans with Vibrance	R	Redigo™
DPHB	DPH Boost®	Ret	Revize® SB+T
DST	Dominance™ ST	Ri	Rizolex™
DX	Defend™ Extra	SF	Stine XP F
EcTC	Eclipse™ US Total coverage	SFI	Stine XP fungicide & insecticide
EE	Evergol™ Energy	SS	Soyshield™
EL	Elevate™ F+I	SS+	Soyshield Plus™
EL+	Elevate™ Plus	TE	Trius Elite™
En	Encase®	TT	Turbo Treat™
EQV	Equity® VIP	W	Warden® CX
Es	Escalate™	Wr	Warden® RTA
F	fungicide	YPP	YP Pro™
G	Gaucho®		

* Seed treatments may include unspecified plant health promoting components.