

2018 Soybean Top 30 Harvest Report

Minnesota South [MNSO] KASSON

Brian Herbst, Dodge County, MN 55944



Test by: IMQ, LLC, New Richland, MN

PREV. CROP/HERB: Corn / Laudis, atrazine
 SOIL DESCRIPTION: Tripoli silty clay, mod. well drained, non-irrigated
 SOIL CONDITIONS: Very high P, very high K, 7.6 pH, 4.6% OM, 22.6 CEC
 TILLAGE/CULTIVATION: Conventional w/ fall till
 PEST MANAGEMENT: OpTill, Sharpen, Roundup, Warrant, Trivapro
 APPLIED N-P-K (units): 0-0-0
 SEEDED - RATE - ROW: May 22 140,000 /A 30" Spacing
 HARVESTED - STAND: Oct 22 133,300 /A

Early-Season Test

Maturity Group 1.6 - 1.9

S2018MNSO08a

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
AgriGold	G1990RX	RRX	1.9	R	64.6	10.5	0	133.9	\$533	1
Cornelius	CB18X80	RRX	1.8	R	64.5	10.5	0	131.1	\$532	2
Titan Pro	TP 18X97	RRX	1.8	MR	62.4	10.8	0	132.5	\$515	3
Federal	F1690NR2X	RRX	1.6	R	60.1	11.1	0	135.3	\$496	4
Asgrow	AG17X8 §	RRX	1.7	R	60.0	11.1	0	136.3	\$495	5
Dairyland	DSR-1870/R2Y	RR2Y	1.8	R	59.8	10.8	0	135.3	\$493	6
Dyna-Gro	SX18716XT	RRX	1.6	R	59.3	10.7	0	133.9	\$489	7
Golden Harvest	GH1915X	RRX	1.9	R	58.6	10.4	0	131.6	\$483	8
Federal	F195NRR2Y	RR2Y	1.9	R	58.5	10.9	0	131.6	\$483	9
Latham	L1769R2X	RRX	1.7	R	58.1	10.7	0	133.5	\$479	10
Golden Harvest	GH1852X	RRX	1.8	R	57.5	10.7	0	134.9	\$474	11
AgriGold	G1710RX	RRX	1.7	R	57.4	10.4	0	135.3	\$474	12
Latham	L1748R2	RR2Y	1.7	R	57.3	10.9	0	133.0	\$473	13
LG Seeds	LGS1635RX	RRX	1.6	R	56.3	10.6	0	133.5	\$464	14
Hefty	H17X9	RRX	1.7	MR	56.3	11.1	0	136.3	\$464	15
Cornelius	CB19R71	RR2Y	1.9	R	56.1	10.8	0	134.9	\$463	16
Pioneer	P19A14X §	RRX	1.9	R	55.8	11.1	0	134.4	\$460	17
AgriGold	G1502RX	RRX	1.5	R	55.6	10.8	0	131.1	\$459	18
Federal	F1880NR2X	RRX	1.8	R	55.5	10.6	0	130.2	\$458	19
Federal	F2090NR2X	RRX	1.9	R	55.1	10.6	0	132.5	\$455	20
NK Brand	S18-G4X §	RRX	1.8	R	55.1	10.9	0	133.9	\$455	21
NorthStar	NS 61903NXR2	RRX	1.9	MR	55.0	11.1	0	132.5	\$454	22
Prairie Brand	PB-1787R2	RR2Y	1.7	R	54.5	10.9	0	131.6	\$450	23
NorthStar	NS 1911NR2	RR2Y	1.9	MR	54.5	11.0	0	132.1	\$450	24
Titan Pro	TP 16X77	RRX	1.6	MR	54.2	11.0	0	132.1	\$447	26
Pioneer	P15T46R2 GC	RR2Y	1.5	R	53.8	11.0	0	135.8	\$444	27
Dyna-Gro	S18XT38	RRX	1.8	MR	53.7	10.7	0	134.4	\$443	28
Anderson	188RXT	RRX	1.8	MR	53.6	10.7	0	131.6	\$442	29
Latham	L1845R2X	RRX	1.8	MR	53.3	10.7	0	132.5	\$440	30
Hefty	H16X8	RRX	1.6	MR	53.1	11.0	0	133.5	\$438	31
Thunder	SB8818N CK	RRX	1.8	R	54.3	10.8	0	133.0	\$448	25

Mark Querna

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Averages = **54.4** **10.8** **0** **133.3** **\$449**

LSD (0.10) = 4.2 0.3 ns

LSD (0.25) = 2.2 0.2 ns

C.V. = 7.2 Prev. years avg. yield, 57.9 bu/a, 16 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 May rains, as well as cool temps. Rainfall here was a bit more normal than at other southern MN locations. August only showed 3 inches of rain and moderately changing temps. Plants at harvest were shorter than average. Brian stated that the field surrounding the plot had higher yield, but the plot's lower location resulted in larger yield deviation.*

† 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: 10/23/2018 Revised:

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PEST MANAGEMENT: OpTill, Sharpen, Roundup, Warrant, Trivapro
APPLIED N-P-K (units): 0-0-0
SEEDED - RATE - ROW: May 22 140,000 /A 30" Spacing
HARVESTED - STAND: Oct 22 133,900 /A

Full-Season Test
Maturity Group 2.0 - 2.3
S2018MNSO08b

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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
AgriGold	G2250RX	RRX	2.2	R	66.9	11.0	0	135.3	\$552	1
Titan Pro	TP 20X98	RRX	2.0	MR	66.2	11.0	0	134.4	\$546	2
AgriGold	G2105RX	RRX	2.1	R	65.6	10.8	0	133.5	\$541	3
Mustang	22X228 GC	RRX	2.2	R	63.9	11.3	0	133.0	\$527	4
Anderson	217RXT	RRX	2.0	MR	63.6	11.5	0	133.0	\$525	5
Stine	21RI32 §	RR2Y	2.1	R	63.1	11.3	0	135.3	\$521	6
Cornelius	CB21X55	RRX	2.1	R	62.0	11.1	0	135.3	\$512	7
Federal	F2280NR2X	RRX	2.2	R	62.0	11.2	0	136.3	\$512	8
Cornelius	CB20R44	RR2Y	2.0	R	61.9	11.3	0	136.7	\$511	9
Asgrow	AG20X7 §	RRX	2.0	R	61.4	11.3	0	133.0	\$507	10
LG Seeds	LGS2007RX	RRX	2.0	R	60.9	10.4	0	133.9	\$502	11
Renk	RS207NX	RRX	2.0	R	60.9	11.1	0	133.0	\$502	12
Latham	L2228R2	RR2Y	2.2	R	60.4	11.1	0	135.8	\$498	13
Stine	20RD20 §	RR2Y	2.0	R	60.3	11.3	0	132.5	\$497	14
Dyna-Gro	S21XT77	RRX	2.1	R	59.9	10.9	0	133.9	\$494	15
Dairyland	DSR-2197/R2Y	RR2Y	2.1	R	59.1	11.2	0	135.8	\$488	16
NorthStar	NS 62002NXR2	RRX	2.0	MR	59.0	10.9	0	133.0	\$487	17
AgriGold	G2355RX	RRX	2.3	R	58.3	11.8	0	132.5	\$481	18
Hefty	H22X8	RRX	2.2	MR	58.2	11.4	0	132.5	\$480	19
Renk	RS213NR2	RR2Y	2.1	R	58.0	11.1	0	133.0	\$479	20
Golden Harvest	GH2230X	RRX	2.2	R	58.0	11.2	0	133.0	\$479	21
Federal	F2190NR2X	RRX	2.1	R	56.7	11.2	0	133.0	\$468	22
NK Brand	S21-W8X §	RRX	2.1	R	56.6	10.6	0	133.0	\$467	23
Federal	F2290NR2X	RRX	2.2	R	56.2	10.7	0	133.5	\$464	24
Dairyland	DSR-2330/R2Y	RR2Y	2.3	R	56.2	11.3	0	133.5	\$464	25
Latham	L2295R2X	RRX	2.2	R	56.1	11.0	0	133.9	\$463	26
Latham	L2084R2	RR2Y	2.0	R	56.0	11.6	0	133.9	\$462	27
Dyna-Gro	SX18822XP	RRX	2.2	R	55.4	10.5	0	131.1	\$457	28
Dairyland	DSR-2062/R2Y GC	RR	2.2	R	55.4	11.4	0	135.3	\$457	29
Renk	RS219NX	RRX	2.1	R	55.4	11.5	0	133.5	\$457	30
Thunder	SB8818N CK	RRX	1.8	R	50.8	11.3	0	134.4	\$419	44

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Averages =	57.1	11.2	0	133.9	\$471
LSD (0.10) =	4.1	0.5	ns		
LSD (0.25) =	2.1	0.3	ns		
C.V. =	6.8				

Prev. years avg. yield, 57.9 bu/a, 16 yrs

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2018 Soybean - Minnesota South [MNSO]

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	RRX	1.5	R	ASfi,IL						
AgriGold	G1710RX	RRX	1.7	R	ASfi,IL						
AgriGold	G1990RX	RRX	1.9	R	ASfi,IL						
Anderson	168RXT	RRX	1.6	MR	None						
Anderson	188RXT	RRX	1.8	MR	None						
Asgrow	AG17X8 §	RRX	1.7	R	AC,PV						
Asgrow	AG19X8 GC	RRX	1.9	R	AC,PV						
Cornelius	CB18X80	RRX	1.8	R	PG+						
Cornelius	CB19R71	RR2Y	1.9	R	PG+						
Dairyland	DSR-1721/R2Y	RR2Y	1.7	R	CMB						
Dairyland	DSR-1870/R2Y	RR2Y	1.8	R	CMB						
Dairyland	DSR-1950/R2Y	RR2Y	1.9	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						
Federal	F2090NR2X	RRX	1.9	R	None						
Golden Harvest	GH1852X	RRX	1.8	R	CCB,Me						
Golden Harvest	GH1915X	RRX	1.9	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	LGS1635RX	RRX	1.6	R	ASfi,IL						
NK Brand	S18-G4X §	RRX	1.8	R	None						
NK Brand	S18-H3X	RRX	1.8	R	CCB,Me						
NorthStar	NS 1911NR2	RR2Y	1.9	MR	CCB						
NorthStar	NS 61903NXR2	RRX	1.9	MR	CCB						
Pioneer	P15T46R2 GC	RR2Y	1.5	R	None						
Pioneer	P16A35X §	RRX	1.6	R	None						
Pioneer	P19A14X §	RRX	1.9	R	None						
Prairie Brand	PB-1787R2	RR2Y	1.7	R	CMB						
Stine	19BA23 §	G27	2.0	R	None						
Stine	19RF32 GC	RR2Y	1.9	R	SF						
Thunder	SB8818N CK	RRX	1.8	R	Ret						
Titan Pro	TP 16X77	RRX	1.6	MR	None						
Titan Pro	TP 18X97	RRX	1.8	MR	IL,PV						

2018 Soybean - Minnesota South [MNSO]

Full-Season Test Products (48 Total)

Company/Brand	Product/Brand	Technol.	Mat.	SCN	Seed Trt	Company/Brand	Product/Brand	Technol.	Mat.	SCN	Seed Trt
AgriGold	G2105RX	RRX	2.1	R	ASfi,IL	Thunder	SB8818N CK	RRX	1.8	R	Ret
AgriGold	G2250RX	RRX	2.2	R	ASfi,IL	Titan Pro	TP 20X98	RRX	2.0	MR	IL,PV
AgriGold	G2355RX	RRX	2.3	R	ASfi,IL	Titan Pro	TP 22X68	RRX	2.2	MR	None
Anderson	217RXT	RRX	2.0	MR	None						
Asgrow	AG20X7 §	RRX	2.0	R	AC,PV						
Asgrow	AG21X7 §	RRX	2.1	R	AC,PV						
Cornelius	CB20R44	RR2Y	2.0	R	PG+						
Cornelius	CB20X56	RRX	2.0	R	PG+						
Cornelius	CB21X55	RRX	2.1	R	PG+						
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						
Dairyland	DSR-2330/R2Y	RR2Y	2.3	R	CMB						
Dyna-Gro	S21XT49	RRX	2.1	R	EQV,Ci						
Dyna-Gro	S21XT77	RRX	2.1	R	EQV,Ci						
Dyna-Gro	SX18723XT	RRX	2.3	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	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						
Hefty	H23X9	RRX	2.3	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						
Mustang	22X228 GC	RRX	2.2	R	F,I						
Mustang	24X728 GC	RRX	2.4	R	F,I						
NK Brand	S20-J5X §	RRX	2.0	R	CCB,Me						
NK Brand	S21-W8X §	RRX	2.1	R	CCB,Me						
NorthStar	NS 2362NR2	RR2Y	2.3	MR	CCB						
NorthStar	NS 62002NXR2	RRX	2.0	MR	CCB						
NorthStar	NS 62294NXR2	RRX	2.2	MR	CCB						
Pfister	20R23	RR2Y	2.0	R	CCB						
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						
Renk	RS239NX	RRX	2.3	R	None						
Stine	20RD20 §	RR2Y	2.0	R	SF						
Stine	21RI32 §	RR2Y	2.1	R	SF						

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.