

Test by: Northland F.I.R.S.T., LLC Moorehead, MN

2020 Soybeans Top 30 Harvest Report

Red River South North Dakota & Minnesota [RRSO]
BRECKENRIDGE, MN
Bruce Yaggie, Wilkin County, MN 56520

Early-Season Test	0.6 - 0.9 Day CRM S2020RRSO03a
Top 30 of 45	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Armezon Pro, Atrazine
SOIL DESCRIPTION:	Antler loam, mod. poorly drained, non-irrigated
SOIL CONDITION:	high P, low K, 8.2 pH, 4.1% OM, 28.6 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Fierce Ez, Makaze, Medal Ec
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 18 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 9 128.9 /A

TEST COMMENTS:

Planting conditions were good, and the plot was planted the same day as the surrounding field. During the growing season, this area received above-average rainfall and the plot was hit with hail once, damaging plants. There were some varieties that were affected by Iron Chlorosis. Yields in this area range widely depending on the field. Due to damage and high yield variance in both tests, the data was rejected.

Company/Brand	Product/Brand	Yield	GR	SCN Resist.	Yield Buck L	Moisture %	lodging %	Stand in 2020	Gross Income \$/acre	Rank
HEFTY	HEFTY	99.8	0.7	R	10.4	11.0	0	128.0	208	1
LATHAM	L 1778 EZ	93	0.7	R	20.8	10.4	0	128.0	202	2
GENESIS	GENESIS	93	0.7	R	20.8	10.2	0	130.0	202	3
LATHAM	L 1892 LUSTY	LUSTY	0.8	R	20.8	10.1	0	128.0	204	4
GENESIS	GENESIS	93	0.8	R	20.8	9.9	0	127.0	201	5
GENESIS	GENESIS	LUSTY	0.8	R	20.8	10.4	0	127.0	200	6
SYN-GRO	SYN-GRO	99.8	1.0	R	10.2	10.2	0	127.0	200	7
APEX	APEX	93	1.0	R	10.2	10.1	0	127.0	199	8
REX	REX	99.8	1.0	R	10.2	10.1	0	126.0	199	9
GENESIS	GENESIS	93	1.0	R	10.7	10.0	0	126.0	198	10
THUNDER	THUNDER	93	1.0	R	10.7	10.0	0	126.0	191	11
ZINCO	ZINCO	93	1.0	R	10.7	10.0	0	127.0	190	12
CRONING	CRONING	99.8	0.7	NR	10.0	9.9	0	127.0	178	13
THUNDER	THUNDER	99.8	0.7	R	10.0	10.7	0	126.7	178	14
ZINCO	ZINCO	93	0.7	R	10.0	9.7	0	121.0	174	15
HEFTY	HEFTY	93	0.8	R	17.8	10.0	0	126.7	166	16
APEX	APEX	93	0.8	R	17.2	9.8	0	126.7	162	17
PROVIDE	PROVIDE	93	0.8	R	16.2	10.0	0	126.7	154	18
MR BRAND	MR BRAND	99.8	0.8	NR	16.2	10.1	0	121.7	154	19
THUNDER	THUNDER	99.8	0.8	R	16.7	9.7	0	126.7	148	20
SYN	SYN	93	1.0	R	15.0	10.0	0	121.0	148	21
GOLDEN HARVEST	GOLDEN HARVEST	99.8	1.0	R	15.4	10.7	0	126.0	148	22
SYN	SYN	93	0.8	R	15.2	9.7	0	126.0	140	23
MR BRAND	MR BRAND	99.8	0.8	R	15.1	9.8	0	126.7	142	24
GOLDEN HARVEST	GOLDEN HARVEST	99.8	0.7	NR	14.4	10.1	0	122.7	138	25
LOYAL	LOYAL	93	1.0	R	13.8	9.4	0	127.0	121	26
LATHAM	L 1778 R2K	99.8	0.7	R	13.8	9.7	0	126.7	120	28
HEFTY	HEFTY	99.8	0.8	R	13.7	9.8	0	121.0	120	29
ACORN	ACORN	99.8	0.8	R	13.4	9.3	0	126.0	120	30
APEX	APEX	93	0.7	R	13.0	9.8	0	126.7	120	31
PROVIDE	PROVIDE	99.8	1.0	R	13.0	10.0	0	127.0	120	32



Averages =	16.1	10.1	0	128.9	153
LSD (0.10) =	8.6	ns	ns		
LSD (0.25) =	4.5	ns	ns		
C.V. =	51.0				Historic yield: new site

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Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$9.43

Report Date: 10/09/2020

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† 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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2020 Soybeans Top 30 Harvest Report

Red River South North Dakota & Minnesota [RRSO]
BRECKENRIDGE, MN

Bruce Yaggie, Wilkin County, MN 56520

Full-Season Test	1.0 - 1.4 Day CRM S2020RRSO03b
Top 30 of 33	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Armezon Pro, Atrazine
SOIL DESCRIPTION:	Antler loam, mod. poorly drained, non-irrigated
SOIL CONDITION:	high P, low K, 8.2 pH, 4.1% OM, 28.6 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Fierce Ez, Makaze, Medal Ec
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 18 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 9 129.1 /A

TEST COMMENTS:

Planting conditions were good, and the plot was planted the same day as the surrounding field. During the growing season, this area received above-average rainfall and the plot was hit with hail once, damaging plants. There were some varieties that were affected by Iron Chlorosis. Yields in this area range widely depending on the field. Due to damage and high yield variance in both tests, the data was rejected.

Company/Brand	Product/Brand	Yield [†]	GR	SH	Moisture	Logging	Stand	Gross Income	Rank	
					%	%	/a 2020	\$/acre		
SYNCO	SYNCO	83	1.1	R	25.0	9.7	0	129.3	288	1
MR BRAND	SYNCO	83	1.3	MR	24.7	9.7	0	132.0	230	2
LATHAM	L 1180	83	1.1	R	24.8	10.2	0	131.0	230	3
ZINCO	ZINCO	83	1.1	R	25.0	10.0	0	128.7	217	4
MR BRAND	SYNCO	89	1.4	MR	22.8	9.3	0	127.0	210	5
AGRIUM	AGRIUM	89	1.1	R	23.3	9.8	0	127.7	210	6
PROSECO	ELITE	83	1.2	R	23.7	10.7	0	127.7	210	7
CRONING	CRONING	83	1.3	R	23.7	9.7	0	126.0	190	8
APEX	APEX	83	1.1	R	23.8	10.0	0	126.0	190	9
THUNDER	THUNDER	83	1.1	R	24.0	10.0	0	126.0	190	10
AGRIUM	AGRIUM	89	1.1	R	23.0	9.8	0	126.0	190	11
LYNAL	L 1180	83	1.1	R	23.0	10.0	0	127.0	190	12
CRONING	CRONING	83	1.2	MR	23.4	9.7	0	126.0	190	13
HEFTY	HEFTY	89	1.4	MR	23.0	9.4	0	127.0	171	14
TITAN PRO	TITAN PRO	83	1.2	R	23.0	10.0	0	126.7	170	15
GOLDEN HARVEST	GOLDEN HARVEST	83	1.1	R	23.0	9.4	0	126.7	169	16
ZINCO	ZINCO	83	1.2	R	23.2	10.4	0	126.7	162	17
LATHAM	L 1180	83	1.1	R	23.0	9.8	0	126.0	159	18
SYNCO	SYNCO	83	1.4	R	23.0	10.0	0	126.0	159	19
CRONING	CRONING	83	1.4	MR	23.7	9.8	0	126.0	157	20
ZINCO	ZINCO	83	1.4	R	23.0	10.0	0	126.0	154	21
GENESIS	GENESIS	83	1.2	R	23.2	9.4	0	126.0	150	22
PROSECO	PROSECO	83	1.3	R	23.0	10.0	0	126.7	150	24
THUNDER	THUNDER	89	1.2	R	23.8	9.3	0	126.7	150	25
TITAN PRO	TITAN PRO	83	1.3	R	22.8	9.4	0	126.0	121	26
CRONING	CRONING	83	1.1	MR	22.0	9.0	0	126.7	118	27
GENESIS	GENESIS	83	1.3	R	21.4	10.0	0	126.0	108	28
MR BRAND	SYNCO	89	1.2	R	21.2	10.0	0	126.0	108	29
THUNDER	THUNDER	83	1.3	R	20.0	10.4	0	126.0	94	30
APEX	APEX	83	1.3	R	20.0	9.8	0	126.0	91	31
PROSECO	PROSECO	89	1.1	R	20.0	10.0	0	126.7	90	32



Averages =	17.4	10.0	0	129.1	163
LSD (0.10) =	ns	ns	ns		
LSD (0.25) =	ns	ns	ns		
C.V. =	53.0			Historic yield: new site	

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Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$9.43

† 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

2020 Soybeans - Red River South North Dakota & Minnesota [RRSO]

Early-Season Test Products (45 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
APEX	AE0710	E3	R	0.7	CMBV,SA
APEX	AE0810	E3	R	0.8	CMBV,SA
APEX	AE1010	E3	R	1.0	CMBV,SA
ASGROW	AG08X0 §	RRX	R	0.8	None
CREDENZ	CZ 0729GTLL	LLGT27	MR	0.7	PV,IL,OB
DYNA-GRO	S09EN41	E3	R	0.9	EQV,SA
DYNA-GRO	S10XT71	RRX	R	1.0	EQV,SA
GENESIS	G0690GL	LLGT27	R	0.6	EcTC
GENESIS	G0750E	E3	R	0.7	CMBV,SA
GENESIS	G0850E	E3	R	0.8	CMBV,SA
GENESIS	G1050E	E3	R	1.0	CMBV,SA
GOLDEN HARVEST	GH0749X	RRX	MR	0.7	CMBV,SA
GOLDEN HARVEST	GH1012E3 §	E3	R	1.0	CMBV,SA
HEFTY	H07X0	RRX	R	0.7	HCS
HEFTY	H09X0	RRX	R	0.9	HCS
HEFTY	H09X1	RRX	R	0.9	HCS
HEFTY	H10X0	RRX	R	1.0	HCS
LATHAM	L 0739 R2X	RRX	R	0.7	SS+
LATHAM	L 0785 E3	E3	R	0.7	SS+
LATHAM	L 0852 LLGT27	LLGT27	S	0.8	SS+
LATHAM	L 1085 LLGT27	LLGT27	R	1.0	SS+
LATHAM	L 1094 E3	E3	R	1.0	SS+
LOYAL	L0830E	E3	R	0.8	CMBV,SA
LOYAL	L1030E	E3	R	1.0	CMBV,SA
NK BRAND	S07-Q4X §	RRX	MR	0.7	CMBV,SA
NK BRAND	S09-3E3	E3	NA	0.9	CMBV,SA
NK BRAND	S09-D4X	RRX	S	0.9	CMBV,SA
NK BRAND	S10-E3	E3	R	1.0	CMBV,SA
PIONEER	P11A44X CK	RRX	R	1.1	None
PROSEED	EL20-73	E3	R	0.7	None
PROSEED	EL21-03	E3	R	1.0	None
RENK	RS100NX	RRX	R	1.0	EcTC
STINE	06EC23 §	E3	R	0.6	None
STINE	09EA02 §	E3	R	0.9	None
STINE	10EC20 §	E3	R	1.0	None
THUNDER	SB8009N	RRX	R	0.9	None

Company/Brand	Brand/Product	Technology	RM	SCN	Seed Treat.
THUNDER	SB8010N	RRX	R	1.0	None
THUNDER	SB8807N	RRX	R	0.7	None
THUNDER	TE7107N	E3	R	0.7	None
THUNDER	TE7110N	E3	R	1.0	None
TITAN PRO	10E0	E3	R	1.0	SA,A,R,G
ZINESTO	Z0601E	E3	R	0.6	None
ZINESTO	Z0701E	E3	R	0.7	None
ZINESTO	Z0801E	E3	R	0.8	None
ZINESTO	Z1001E	E3	R	1.0	None

2020 Soybeans - Red River South North Dakota & Minnesota [RRSO]

Full-Season Test Products (33 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
APEX	AE1210S	E3	R	1.2	CMBV,SA
APEX	AE1300	E3	R	1.3	CMBV,SA
ASGROW	AG11X8 §	RRX	R	1.1	None
ASGROW	AG14X8 §	RRX	R	1.4	None
CREDENZ	CZ 1139GTLL	LLGT27	MR	1.1	PV,IL,OB
CREDENZ	CZ 1280GTLL	LLGT27	MR	1.2	PV,IL,OB
CREDENZ	CZ 1331GTLL	LLGT27	R	1.3	PV,IL,OB
CREDENZ	CZ 1470GTLL	LLGT27	MR	1.4	PV,IL,OB
DYNA-GRO	S11EN40	E3	R	1.1	EQV,SA
DYNA-GRO	S14EN90	E3	R	1.4	EQV,SA
GENESIS	G1250ES	E3	R	1.2	CMBV,SA
GENESIS	G1340E	E3	R	1.3	CMBV,SA
GOLDEN HARVEST	GH1225X	RRX	R	1.2	CMBV,SA
HEFTY	H14X1	RRX	R	1.4	HCS
LATHAM	L 1192 E3	E3	R	1.1	SS+
LATHAM	L 1392 E3	E3	R	1.3	SS+
LATHAM	L 1429 LLGT27	LLGT27	R	1.4	SS+
LOYAL	L1320E	E3	R	1.3	CMBV,SA
NK BRAND	S12-R3	RR2Y	R	1.2	CMBV,SA
NK BRAND	S12-T2X	RRX	MR	1.2	CMBV,SA
NK BRAND	S13-E3 §	E3	MR	1.3	CMBV,SA
NK BRAND	S14-U9X	RRX	MR	1.4	CMBV,SA
PIONEER	P11A44X CK	RRX	R	1.1	None
PROSEED	EL21-23	E3	R	1.2	None
PROSEED	EL91-33	E3	R	1.3	None
THUNDER	SB8012N	RRX	R	1.2	None
THUNDER	TE7011N	E3	R	1.1	None
THUNDER	TE7013N	E3	R	1.3	None
TITAN PRO	13E9	E3	R	1.3	SA,A,R,G
TITAN PRO	13GL0	LLGT27	R	1.3	SA,A,R,G
ZINESTO	Z1101E	E3	R	1.1	None
ZINESTO	Z1301G	LLGT27	R	1.3	None
ZINESTO	Z1401E	E3	R	1.4	None

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*

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

Soybeans Seed Treatments**

CMBV,SA	Cruisermaxx, Vibrance, Saltro
EcTC	Eclipse US Total Coverage Trio IM, N-Force
EQV,SA	Equity VIP, Saltro
HCS	Hefty Complete Soybeans
PV,IL,OB	Poncho®/Votivo®, ILeVO, Obvius Plus
SA,A,R,G	Saltro, Allegiance FL, Redigo 480, Gaucho 600
SS+	SoyShield Plus

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

