

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

2020 Soybeans Top 30 Harvest Report

Red River South North Dakota & Minnesota [RRSO]
LITCHVILLE, ND
Mark Formo, Barnes County, ND 58461

Early-Season Test	0.6 - 0.9 Day CRM S2020RRSO04a
Top 30 of 45	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Wheat / Husky
SOIL DESCRIPTION:	Hamerly-Wyard loam, mod. poorly drained, non-irrigated
SOIL CONDITION:	medium P, very high K, 6.3 pH, 3.7% OM, 18.3 CEC
TILLAGE/CULTIVATION:	Conventional W/O Fall Till
PEST MANAGEMENT:	Fierce Ez, Makaze, Medal Ec
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 28 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 10 128.7 /A

TEST COMMENTS:

Planting was a struggle in this area due to wet conditions. The plot had one hail event that damaged leaves in June, but this had no long term effects. The plot and surrounding area had white mold, which affected some varieties worse than others, making some beans difficult to combine due to lodging. Mark said they had been seeing good bean yields this year on their farm.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
THUNDER	SB8010N	RRX	1.0	R	48.0	12.0	0	130.0	453	1
GOLDEN HARVEST	GH1012E3 §	E3	1.0	R	47.7	10.9	0	130.7	450	2
LATHAM	L 1094 E3	E3	1.0	R	47.3	11.4	8	126.7	446	3
HEFTY	H10X0	RRX	1.0	R	47.0	10.9	0	127.7	443	4
RENK	RS100NX	RRX	1.0	R	47.0	11.6	13	129.7	443	5
GENESIS	G0690GL	LLGT27	0.6	R	46.6	11.8	0	130.7	439	6
NK BRAND	S10-E3	E3	1.0	R	45.9	11.3	5	130.3	433	7
LATHAM	L 0739 R2X	RRX	0.7	R	45.8	10.9	3	128.3	432	8
NK BRAND	S09-D4X	RRX	0.9	S	45.5	11.8	3	130.7	429	9
ZINESTO	Z0601E	E3	0.6	R	45.4	11.3	0	128.3	428	10
THUNDER	SB8807N	RRX	0.7	R	44.7	10.8	0	130.0	422	11
HEFTY	H09X0	RRX	0.9	R	44.6	11.5	8	129.7	421	12
TITAN PRO	10E0	E3	1.0	R	44.1	11.6	1	127.0	416	14
APEX	AE0810	E3	0.8	R	43.9	11.3	12	129.7	414	15
DYNA-GRO	S10XT71	RRX	1.0	R	43.8	11.7	1	131.7	413	16
LATHAM	L 1085 LLGT27	LLGT27	1.0	R	43.8	11.3	15	131.3	413	17
PROSEED	EL21-03	E3	1.0	R	43.4	11.3	8	132.7	409	18
ZINESTO	Z1001E	E3	1.0	R	42.7	11.6	16	131.3	403	19
LOYAL	L1030E	E3	1.0	R	41.9	11.1	21	128.3	395	20
THUNDER	TE7110N	E3	1.0	R	41.9	11.1	16	127.3	395	21
DYNA-GRO	S09EN41	E3	0.9	R	41.9	11.7	25	128.3	395	22
GENESIS	G1050E	E3	1.0	R	41.4	10.9	12	126.3	390	23
ASGROW	AG08X0 §	RRX	0.8	R	41.3	10.8	1	128.0	389	24
HEFTY	H09X1	RRX	0.9	R	41.1	11.1	1	127.0	388	25
APEX	AE1010	E3	1.0	R	41.0	11.6	8	129.3	387	26
NK BRAND	S07-Q4X §	RRX	0.7	MR	40.7	10.7	7	127.3	384	27
THUNDER	TE7107N	E3	0.7	R	40.6	11.2	24	127.3	383	28
HEFTY	H07X0	RRX	0.7	R	40.5	11.5	13	126.0	382	29
GENESIS	G0850E	E3	0.8	R	40.4	11.5	20	131.3	381	30
STINE	10EC20 §	E3	1.0	R	40.4	11.3	0	126.7	381	31
PIONEER	P11A44X CK	RRX	1.1	R	44.1	11.4	0	125.7	416	13
					Averages =	42.0	11.2	14	128.7	396
					LSD (0.10) =	3.3	0.5	18		
					LSD (0.25) =	1.7	0.3	9		
					C.V. =	7.4				
Luke Brendemuhl					Historic yield: 41.7 bu/a, 5 yr(s)					
luke.brendemuhl@firstseedtests.com, (218) 790-4497										

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

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2020 Soybeans Top 30 Harvest Report

Red River South North Dakota & Minnesota [RRSO]
LITCHVILLE, ND
Mark Formo, Barnes County, ND 58461

Full-Season Test	1.0 - 1.4 Day CRM S2020RRSO04b
Top 30 of 33	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Wheat / Husky
SOIL DESCRIPTION:	Hamerly-Wyard loam, mod. poorly drained, non-irrigated
SOIL CONDITION:	medium P, very high K, 6.3 pH, 3.7% OM, 18.3 CEC
TILLAGE/CULTIVATION:	Conventional W/O Fall Till
PEST MANAGEMENT:	Fierce Ez, Makaze, Medal Ec
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 28 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 10 128.5 /A

TEST COMMENTS:

Planting was a struggle in this area due to wet conditions. The plot had one hail event that damaged leaves in June, but this had no long term effects. The plot and surrounding area had white mold, which affected some varieties worse than others, making some beans difficult to combine due to lodging. Mark said they had been seeing good bean yields this year on their farm.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
CREDENZ	CZ 1139GTLL	LLGT27	1.1	MR	47.3	12.3	0	126.3	446	1
ASGROW	AG11X8 §	RRX	1.1	R	46.2	11.2	0	125.3	436	2
ASGROW	AG14X8 §	RRX	1.4	R	45.5	12.3	16	128.7	429	4
ZINESTO	Z1301G	LLGT27	1.3	R	45.3	13.6	0	125.7	426	5
CREDENZ	CZ 1331GTLL	LLGT27	1.3	R	45.1	15.0	0	129.3	423	6
NK BRAND	S12-R3	RR2Y	1.2	R	44.9	11.5	1	130.3	423	7
TITAN PRO	13GL0	LLGT27	1.3	R	44.8	13.7	0	129.0	422	8
HEFTY	H14X1	RRX	1.4	R	44.4	12.7	3	130.0	419	9
GOLDEN HARVEST	GH1225X	RRX	1.2	R	44.2	11.4	12	127.0	417	10
CREDENZ	CZ 1280GTLL	LLGT27	1.2	MR	44.0	11.3	0	129.3	415	11
NK BRAND	S12-T2X	RRX	1.2	MR	42.6	11.5	0	128.3	402	12
NK BRAND	S14-U9X	RRX	1.4	MR	42.3	12.0	0	130.3	399	13
ZINESTO	Z1101E	E3	1.1	R	40.7	11.3	28	132.3	384	14
LATHAM	L 1392 E3	E3	1.3	R	40.6	11.8	16	128.0	383	15
GENESIS	G1250ES	E3	1.2	R	40.1	11.0	15	127.0	378	16
PROSEED	EL21-23	E3	1.2	R	38.9	11.1	45	129.0	367	17
APEX	AE1300	E3	1.3	R	38.2	12.3	38	128.3	360	18
LATHAM	L 1429 LLGT27	LLGT27	1.4	R	38.1	10.9	16	129.3	359	19
GENESIS	G1340E	E3	1.3	R	37.8	11.4	28	130.0	356	20
THUNDER	SB8012N	RRX	1.2	R	37.3	10.3	28	127.0	352	21
APEX	AE1210S	E3	1.2	R	37.1	10.8	20	130.3	350	22
LATHAM	L 1192 E3	E3	1.1	R	37.0	10.9	5	129.0	349	23
THUNDER	TE7011N	E3	1.1	R	36.9	10.7	5	128.7	348	24
LOYAL	L1320E	E3	1.3	R	36.6	11.4	16	125.0	345	25
DYNA-GRO	S11EN40	E3	1.1	R	36.5	10.8	22	125.7	344	26
DYNA-GRO	S14EN90	E3	1.4	R	36.2	12.7	33	128.7	341	27
TITAN PRO	13E9	E3	1.3	R	35.7	11.1	45	129.0	337	28
NK BRAND	S13-E3 §	E3	1.3	MR	34.6	11.3	49	129.7	326	29
THUNDER	TE7013N	E3	1.3	R	33.8	11.4	45	129.7	319	30
ZINESTO	Z1401E	E3	1.4	R	33.4	11.0	16	129.3	315	31
PIONEER	P11A44X CK	RRX	1.1	R	45.6	11.1	0	127.3	430	3
					Averages =	39.6	11.6	18	128.5	373
					LSD (0.10) =	4.3	0.8	18		
					LSD (0.25) =	2.3	0.4	9		
					C.V. =	10.4	Historic yield: 41.7 bu/a, 5 yr(s)			

Luke Brendemuhl

luke.brendemuhl@firstseedtests.com, (218) 790-4497

Yield & Income Factors:

Base Moisture = 13.0%

Shrink = 1.3

Drying = \$0.025

Prices: GMO = \$9.43

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	NA
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	NA
PROSEED	EL20-73	E3	R	0.7	NA
PROSEED	EL21-03	E3	R	1.0	NA
RENK	RS100NX	RRX	R	1.0	EcTC
STINE	06EC23 §	E3	R	0.6	NA
STINE	09EA02 §	E3	R	0.9	NA
STINE	10EC20 §	E3	R	1.0	NA
THUNDER	SB8009N	RRX	R	0.9	NA

Company/Brand	Brand/Product	Technology	RM	SCN	Seed Treat.
THUNDER	SB8010N	RRX	R	1.0	NA
THUNDER	SB8807N	RRX	R	0.7	NA
THUNDER	TE7107N	E3	R	0.7	NA
THUNDER	TE7110N	E3	R	1.0	NA
TITAN PRO	10E0	E3	R	1.0	SA,A,R,G
ZINESTO	Z0601E	E3	R	0.6	NA
ZINESTO	Z0701E	E3	R	0.7	NA
ZINESTO	Z0801E	E3	R	0.8	NA
ZINESTO	Z1001E	E3	R	1.0	NA

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	NA
ASGROW	AG14X8 §	RRX	R	1.4	NA
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	NA
PROSEED	EL21-23	E3	R	1.2	NA
PROSEED	EL91-33	E3	R	1.3	NA
THUNDER	SB8012N	RRX	R	1.2	NA
THUNDER	TE7011N	E3	R	1.1	NA
THUNDER	TE7013N	E3	R	1.3	NA
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	NA
ZINESTO	Z1301G	LLGT27	R	1.3	NA
ZINESTO	Z1401E	E3	R	1.4	NA

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**

NA	Not Available
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.