

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

2021 Soybeans Top 30 Harvest Report

Red River Central North Dakota & Minnesota [RRCE] EAST GRAND FORKS, MN

Matthew Krueger, Polk County, MN 56721

All-Season Test 0.2 - 0.9 Day CRM S2021RRCE04

Top 30 of 71 For Gross Income (Sorted by Yield) Average of (3) Replications

PREV. CROP/HERB: Wheat / Colt As, Sword, Affinity Broadspec

SOIL DESCRIPTION: Bearden-Colvin silt loam, mod. poorly drained, non-irrigated

SOIL CONDITION: very low P, low K, 8.4 pH, 5.3% OM, 31.6 CEC

TILLAGE/CULTIVATION: Conventional W/ Fall Till

PEST MANAGEMENT: Fierce Ez, Mad Dog, Medal Ec, Gunsmoke

Applied N-P-K (units): 0-0-0

SEEDED - RATE - ROW: May 18 140.0 /A 30" spacing

HARVESTED - STAND: Oct 7 133.0 /A

TEST COMMENTS:

This was one of our last plots planted this year, and received rains shortly after planting that helped emergence. This site had iron chlorosis that affected some varieties and had varying degrees of impact on yield. The growing season was much drier than average, but Matt said that this area received random timely rains that came just at the right time. This part of the field yielded extremely well, with Matt saying that spots were reaching the 70 bpa mark. Plants at harvest were waist-high, with many branches containing full pods with large beans.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Latham	L 0785 E3 ↗	E3	0.7	R	79.7	10.3	1	133.0	1012	1
Credenz	CZ 0661GTLL ↗	LLGT27	0.6	R	75.9	10.8	2	132.7	964	2
Dyna-Gro	S07EN61 ↗	E3	0.7	R	75.3	10.1	1	132.7	956	3
Dairyland	DSR-0847E ↗	E3	0.8	S	74.4	10.6	2	133.3	945	4
Dairyland	DSR-0645E ↗	E3	0.4	R	73.7	10.3	1	133.0	936	5
Genesis	G0750E ↗	E3	0.7	R	72.6	10.2	2	133.0	922	6
AgriGold	G0801E3 § ↗	E3	0.8	NA	72.6	10.2	2	133.0	922	7
Thunder	TX8109N ↗	RXF	0.9	R	71.7	10.2	2	132.7	911	8
Dyna-Gro	S05EN82 ↗	E3	0.5	R	71.4	10.1	0	132.3	907	9
Hefty	H07XF1 ↗	RXF	0.7	NA	70.7	10.3	1	133.0	898	10
Channel	0622RFX § ↗	RXF	0.6	NA	70.2	10.2	0	133.3	892	11
Thunder	TE7207 ↗	E3	0.7	S	70.2	10.4	2	133.7	892	12
NK Brand	NK05-W3XF ↗	RXF	0.5	R	70.1	10.5	5	132.7	890	13
Thunder	SB8903N ↗	RRX	0.3	R	70.1	10.5	1	133.0	890	14
Dairyland	DSR-1010E ↗	E3	1.0	R	70.0	10.4	4	132.3	889	15
Apex	AE0611 ↗	E3	0.6	R	69.8	10.3	2	133.3	886	16
Asgrow	AG09XF0 § ↗	RXF	0.9	R	69.6	10.0	3	133.3	884	17
Genesis	G0651E ↗	E3	0.6	R	69.5	10.2	0	133.7	883	18
Zinesto	Z0602E ↗	E3	0.6	NA	69.3	10.3	1	133.3	880	19
Thunder	TX8206N ↗	RXF	0.6	R	69.1	10.2	3	132.7	878	20
Apex	AE0720 ↗	E3	0.7	R	69.0	10.5	0	133.3	876	21
Hefty	H06XF2 ↗	RXF	0.6	NA	68.9	10.1	1	132.0	875	22
Latham	L 0739 R2X ↗	RRX	0.7	R	68.7	9.8	2	133.0	872	23
Hefty	H06X8 ↗	RRX	0.6	MR	68.7	9.9	2	133.7	872	24
Xitavo	XO 0731E ↗	E3	0.7	R	68.7	10.3	1	133.3	872	25
Thunder	TX8207N ↗	RXF	0.7	R	68.6	10.2	1	133.3	871	26
Innotech	IS0678E3 ↗	E3	0.6	MR	68.6	10.2	2	132.7	871	27
Mustang	06X628 GC ↗	RRX	0.6	R	68.0	9.9	4	132.7	864	28
Loyal	L0640E ↗	E3	0.6	R	68.0	10.5	2	133.3	864	29
Xitavo	XO 0311E ↗	E3	0.3	MR	67.8	10.1	1	132.7	861	30

Averages = **65.5** **10.3** **2** **133.0** **829**

LSD (0.10) = 6.8 0.3 ns

LSD (0.25) = 3.6 0.2 ns

Luke Brendemuhl

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

C.V. = 9.9

Historic yield: 38.58 bu/a, 5 yr(s)

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$12.70

Report Date: 10/08/2021

† 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. ↗ New! Links to full product yield results at www.firstseedtests.com

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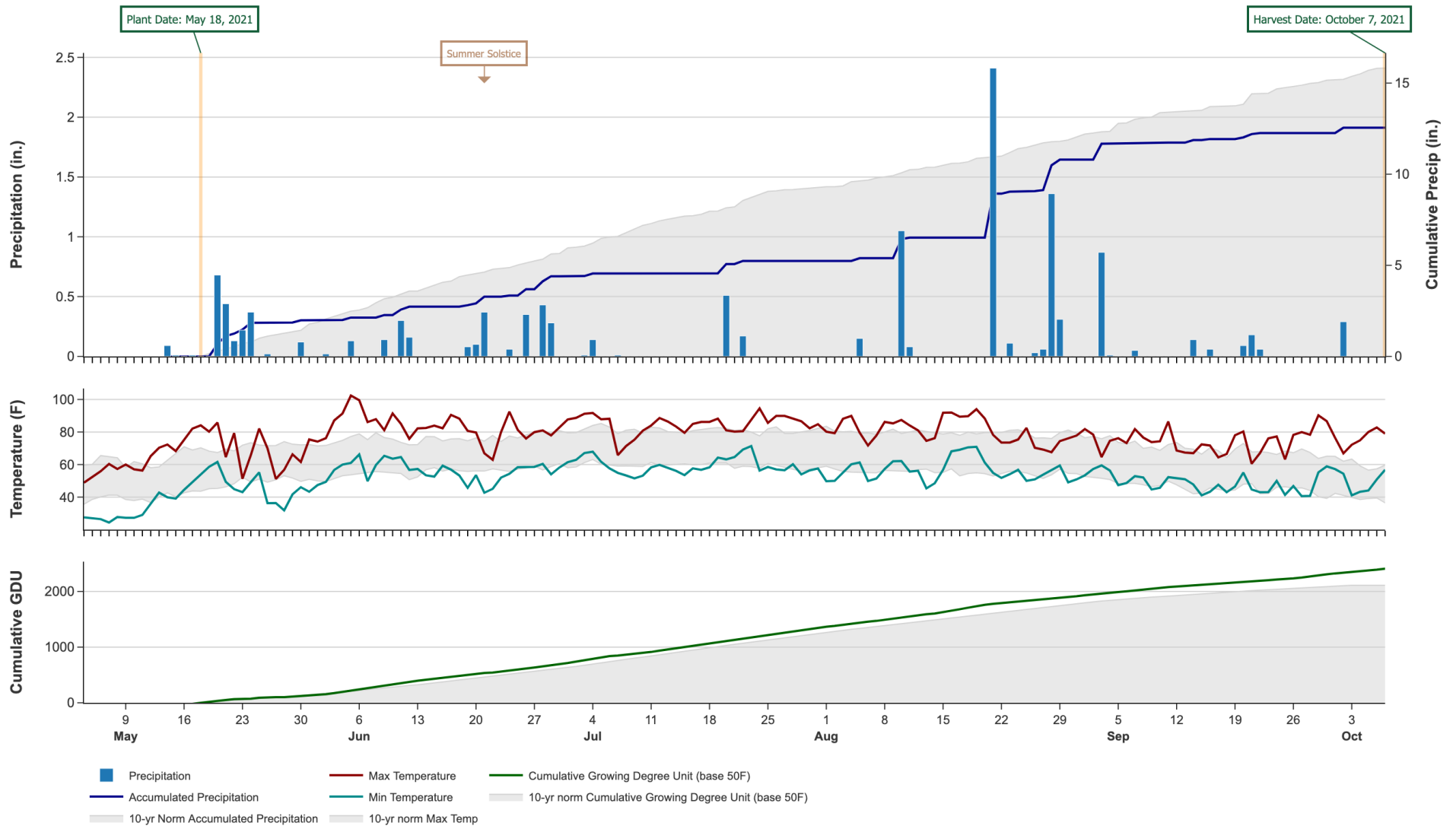
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2021 Soybeans - Red River Central North Dakota & Minnesota [RRCE]

Weather Conditions Summary at EAST GRAND FORKS, MN

Weather Data Retrieved: 10/08/2021

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	2.1 2.7 (-0.6)	2.4 3.9 (-1.5)	0.8 3.6 (-2.8)	5.6 2.8 (+2.8)	1.5 3.1 (-1.6)	0.3 0.7 (-0.4)	12.7 16.7 (-4.1)
GDU Normal (Diff)	214 209 (+4)	563 473 (+89)	661 627 (+33)	563 541 (+21)	393 306 (+86)	101 20 (+80)	2495 2178 (+316)



* First monthly total starts on the date 14 days prior to planting and final monthly total ends on the harvest date.

Note: Weather information from PRISM Climate Group. Data may be revised by the provider after retrieval. FIRST will not revise or update reports to reflect any weather data changes. For information purposes only.

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All-Season Test Products (71 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
AgriGold	G0801E3 §	E3	NA	0.8	ASfi,SA
Apex	AE0611	E3	R	0.6	CMBV,SA
Apex	AE0720	E3	R	0.7	CMBV,SA
Asgrow	AG02X2 §	RRX	R	0.2	ACi
Asgrow	AG03X7 §	RRX	R	0.3	ACi,IL
Asgrow	AG09XF0 §	RXF	R	0.9	ACi,IL
Brevant	B061EE §	E3	MR	0.6	Untreated
Brevant	B091EE §	E3	S	0.9	Untreated
Channel	0622RXF §	RXF	NA	0.6	PV,IL
Credenz	CZ 0419GTLL	LLGT27	MR	0.4	PV,IL,OB
Credenz	CZ 0661GTLL	LLGT27	R	0.6	PV,IL,OB
Dairyland	DSR-0645E	E3	R	0.4	Lum,IL
Dairyland	DSR-0660E	E3	R	0.6	Lum,IL
Dairyland	DSR-0847E	E3	S	0.8	Lum,IL
Dairyland	DSR-1010E	E3	R	1.0	Lum,IL
Dyna-Gro	S05EN82	E3	R	0.5	EQV,SA
Dyna-Gro	S07EN61	E3	R	0.7	EQV,SA
Genesis	G0651E	E3	R	0.6	CMBV,SA
Genesis	G0750E	E3	R	0.7	CMBV,SA
Genesis	G0760E	E3	R	0.7	CMBV,SA
Golden Harvest	GH0272XF §	RXF	MR	0.2	CMBV,SA
Golden Harvest	GH0325E3	E3	MR	0.3	CMBV,SA
Golden Harvest	GH0443X	RRX	MR	0.4	CMBV,SA
Golden Harvest	GH0502XF	RXF	MR	0.5	CMBV,SA
Golden Harvest	GH0593E3 GC	E3	MR	0.5	CMBV,SA
Golden Harvest	GH0822XF	RXF	R	0.8	CMBV,SA
Golden Harvest	GH0842E3 §	E3	R	0.8	CMBV,SA
Hefty	H02E1	E3	R	0.2	DST4,SA
Hefty	H04X8	RRX	MR	0.4	DST4,SA
Hefty	H06X8	RRX	MR	0.6	DST4,SA
Hefty	H06XF2	RXF	NA	0.6	DST4,SA
Hefty	H07XF1	RXF	NA	0.7	DST4,SA
Hefty	H08XF2	RXF	NA	0.8	DST4,SA
Hefty	H09X1	RRX	R	0.9	DST4,SA
Innotech	IS0343E3	E3	MR	0.3	Fortify
Innotech	IS0678E3	E3	MR	0.6	Fortify

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Innotech	IS0864E3	E3	R	0.8	Fortify
Latham	L 0293 E3	E3	R	0.2	SS+
Latham	L 0425 E3	E3	S	0.4	SS+
Latham	L 0438 R2X	RRX	R	0.4	SS+
Latham	L 0728 XF	RXF	R	0.7	SS+,SA
Latham	L 0739 R2X	RRX	R	0.7	SS+,SA
Latham	L 0785 E3	E3	R	0.7	SS+,SA
Latham	L 0984 XF	RXF	R	0.9	SS+,SA
Latham	L 0995 E3	E3	R	0.9	SS+,SA
Loyal	L0640E	E3	R	0.6	CMBV,SA
Loyal	L0740E	E3	R	0.7	CMBV,SA
Mustang	03X329 GC	RRX	R	0.3	Treated
Mustang	06X628 GC	RRX	R	0.6	Treated
NK Brand	NK02-M4XF	RXF	MR	0.2	CMBV,SA
NK Brand	NK04-G8E3 §	E3	R	0.4	CMBV,SA
NK Brand	NK05-W3XF	RXF	R	0.5	CMBV,SA
NK Brand	NK08-B7XF	RXF	R	0.8	CMBV,SA
Stine	03EB02 §	E3	R	0.3	SFI
Stine	06EC23 §	E3	R	0.6	SFI
Stine	08EC02 §	E3	R	0.8	SFI
Stine	08GC02 GC	LLGT27	R	0.8	NA
Thunder	SB8104N	RRX	R	0.4	AM
Thunder	SB8807N	RRX	R	0.7	AM
Thunder	SB8903N	RRX	R	0.3	AM
Thunder	TE7207	E3	S	0.7	AM
Thunder	TX8109N	RXF	R	0.9	AM
Thunder	TX8205N	RXF	R	0.5	AM
Thunder	TX8206N	RXF	R	0.6	AM
Thunder	TX8207N	RXF	R	0.7	AM
Xitavo	XO 0311E	E3	MR	0.3	PV,IL,OB
Xitavo	XO 0521E	E3	R	0.5	PV,IL,OB
Xitavo	XO 0731E	E3	R	0.7	PV,IL,OB
Zinesto	Z0602E	E3	NA	0.6	DST4,SA
Zinesto	Z0702E	E3	NA	0.7	DST4,SA
Zinesto	Z0801E	E3	R	0.8	DST4,SA

* FIRST does not inspect products for refuge blend. N* indicates the product was entered without a refuge component by the sponsoring seed company. Prior year entries may contain refuge blend.

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®
RRX	Roundup Ready 2 Xtend®
RXF	Roundup Ready 2 XtendFlex®

Soybeans Seed Treatments*

NA	Not Available
ACi	Acceleron® Standard Insecticide-Fungicide
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
AM	ApronMaxx
ASfi,SA	AgriShield Max with Saltro®
CMBV,SA	Cruisermaxx® Beans, Vibrance®, Saltro®
DST4,SA	Dominance 4 ST,Saltro®
EQV,SA	Equity VIP, Saltro®
Fortify	Insecticide-Fungicide (Rob-See-Co)
Lum,IL	LumiGEN™ plus ILeVO
PV,IL	Poncho®/Votivo®, ILeVO
PV,IL,OB	Poncho®/Votivo®, ILeVO, Obvius Plus
SFI	Stine XP F&I
SS+	SoyShield Plus
SS+,SA	SoyShield Plus, Saltro®
Treated	Treated, unspecified
Untreated	No seed treatment

* Seed treatments may include unspecified plant health promoting components.