

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

2021 Soybeans Top 30 Harvest Report

Red River North North Dakota & Minnesota [RRNO]
WARREN, MN

Garth Kruger, Marshall County, MN

All-Season Test

00.7 - 0.4 Day CRM
S2021RRNO01

Top 30 of 53

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

PREV. CROP/HERB:

Wheat / Bison, Affinity Tm, Slant,
Crosshair, Miravis Ace, Rainier

SOIL DESCRIPTION:

Flaming sandy loam, mod. well
drained, non-irrigated

SOIL CONDITION:

high P, very low K, 7.6 pH, 2.6%
OM, 13.8 CEC

TILLAGE/CULTIVATION:

Minimum W/ Fall Till

PEST MANAGEMENT:

Fierce Ez, Makaze, Medal Ec,
Gunsmoke

Applied N-P-K (units):

0-0-0

SEEDED - RATE - ROW:

May 11 140.0 /A 30" spacing

HARVESTED - STAND:

Sep 27 132.3 /A

TEST COMMENTS:

The plot was located in a field that historically has done very well for soybeans. The growing season was much drier than average, with the plot receiving very little rain from June through August. A timely rain in August helped the surrounding area yields, with Garth saying that just a few miles in any direction the yields dropped off substantially. Garth said that the field surrounding the plot averaged in the 50's for bushels per acre.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Proseed	EL90-33N ↗	E3	0.3	R	65.1	9.6	0	132.7	828	1
Thunder	SB8903N ↗	RRX	0.3	R	64.5	9.6	0	132.3	820	2
Dyna-Gro	S02EN71 ↗	E3	0.2	R	63.4	10.1	0	132.3	806	3
Credenz	CZ 0419GTLL ↗	LLGT27	0.4	MR	61.5	10.1	0	132.0	782	4
Latham	L 0438 R2X ↗	RRX	0.4	R	60.6	10.6	0	131.3	771	5
Proseed	XT80-20N ↗	RRX	0.2	R	60.4	9.5	0	133.0	768	6
Dahlman	1201E3N ↗	E3	0.1	R	60.3	9.7	0	133.7	767	7
Golden Harvest	GH0443X ↗	RRX	0.4	MR	60.3	10.1	0	132.0	767	8
Latham	L 0282 R2X ↗	RRX	0.2	R	59.7	9.5	0	132.0	759	9
Latham	L 0124 R2X ↗	RRX	0.1	S	59.7	9.5	0	132.7	759	10
Innotech	IS0343E3 ↗	E3	0.3	MR	59.2	9.8	0	132.7	753	11
Stine	03EB02 § ↗	E3	0.3	R	59.2	9.7	0	131.7	753	12
Thunder	SB8104N ↗	RRX	0.4	R	59.1	10.1	0	131.7	752	13
Asgrow	AG02X2 § ↗	RRX	0.2	R	58.4	9.8	0	131.7	743	14
Dyna-Gro	S04XT91 ↗	RRX	0.4	MR	58.3	10.5	0	132.3	742	15
Hefty	H04X8 ↗	RRX	0.4	MR	58.3	9.7	0	133.0	742	16
Latham	L 0293 E3 ↗	E3	0.2	R	57.9	9.8	0	132.7	736	17
Thunder	TE7101N ↗	E3	0.1	R	57.9	9.9	0	132.3	736	18
Asgrow	AG03X7 § ↗	RRX	0.3	R	56.9	9.4	0	131.7	724	19
Golden Harvest	GH0145X ↗	RRX	0.1	S	56.9	9.7	0	133.0	724	20
Latham	L 0225 E3 ↗	E3	0.2	S	56.3	9.8	0	132.0	716	21
Latham	L 0425 E3 ↗	E3	0.4	S	56.2	10.6	0	131.3	715	22
Xitavo	XO 0101E ↗	E3	0.1	MR	56.2	10.0	0	132.0	715	23
Dahlman	1102E3N ↗	E3	0.2	R	56.1	10.0	0	133.3	714	24
Golden Harvest	GH0272XF § ↗	RXF	0.2	MR	55.5	9.9	0	133.3	706	25
Xitavo	XO 0311E ↗	E3	0.3	MR	55.1	9.8	0	133.7	701	26
Thunder	TX8203 ↗	RXF	0.3	S	54.8	9.5	0	132.0	697	27
Loyal	L0140E ↗	E3	0.1	S	53.8	10.2	0	133.3	684	28
Hefty	H02E1 ↗	E3	0.2	R	53.5	10.1	0	131.7	681	29
Dairyland	DSR-0645E ↗	E3	0.4	R	53.4	11.1	0	131.3	679	30

Averages = **54.7** **9.8** **132.3** **696**

LSD (0.10) = 6.8 0.4 ns

LSD (0.25) = 3.5 0.2 ns

Luke Brendemuhl

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C.V. = 11.7

Historic yield: 32.69 bu/a, 3 yr(s)

Yield & Income Factors:

Base Moisture = 13.0%

Shrink = 1.3

Drying = \$0.025

Prices: GMO = \$12.72

Report Date: 09/28/2021

† 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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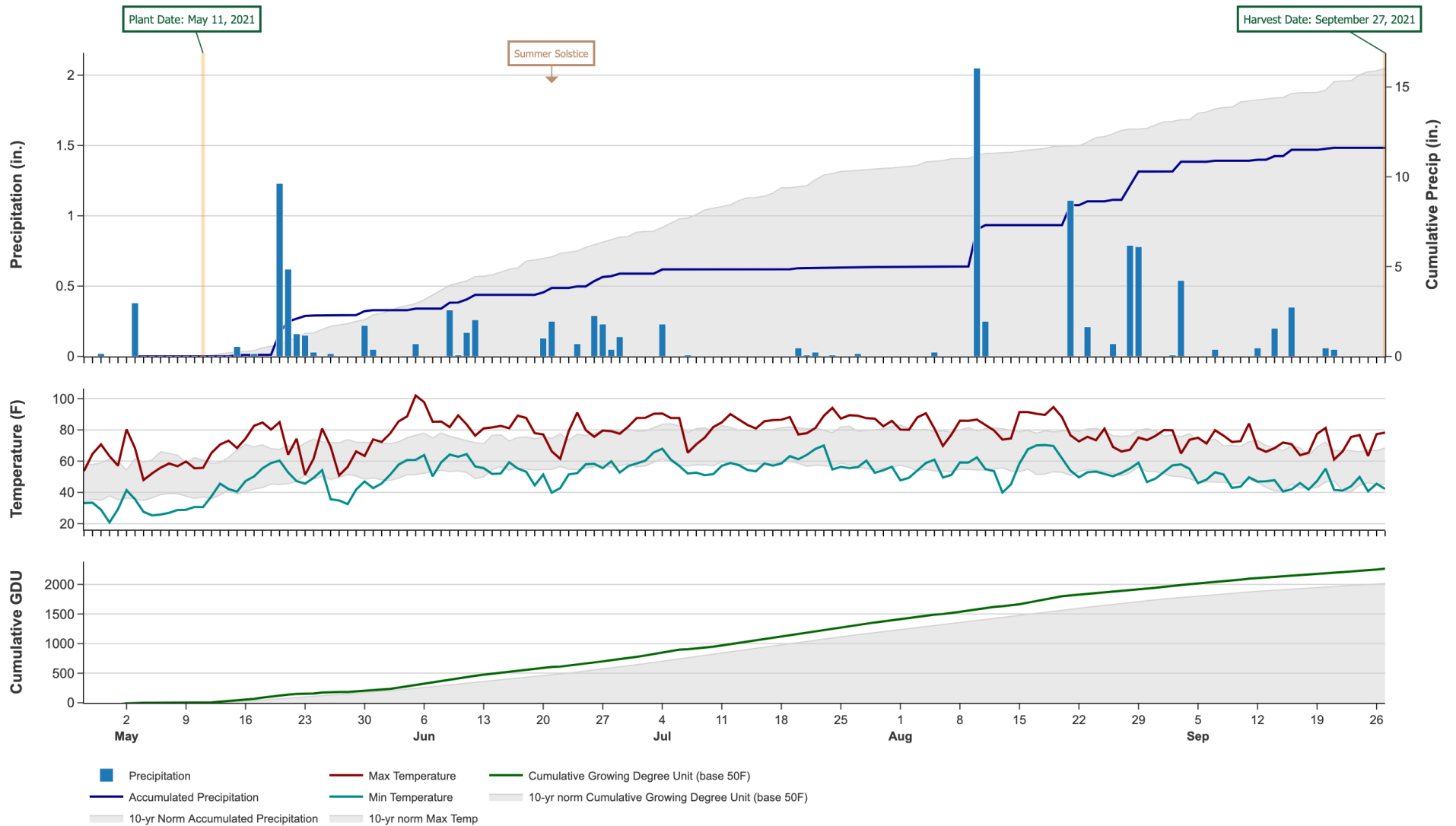
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2021 Soybeans - Red River North North Dakota & Minnesota [RRNO]

Weather Conditions Summary at WARREN, MN

Weather Data Retrieved: 09/28/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep*	Total
Precip (in) Normal (Diff)	0.0 0.3 (-0.3)	3.0 2.9 (0.0)	2.0 4.4 (-2.3)	0.4 3.8 (-3.4)	5.3 2.4 (+2.9)	1.3 3.2 (-1.8)	12.0 17.0 (-5.0)
GDU Normal (Diff)	0 0 (0)	234 206 (+27)	544 442 (+101)	643 597 (+45)	546 516 (+29)	322 275 (+46)	2289 2038 (+250)



* 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 (53 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Asgrow	AG008X1 §	RRX	R	00.8	ACi
Asgrow	AG02X2 §	RRX	R	0.2	ACi
Asgrow	AG03X7 §	RRX	R	0.3	ACi
Brevant	B019EE GC	E3	S	0.1	Untreated
Credenz	CZ 0419GTLL	LLGT27	MR	0.4	PV,IL,OB
Dahlman	1102E3N	E3	R	0.2	Treated
Dahlman	1201E3N	E3	R	0.1	Treated
Dairyland	DSR-0119E	E3	S	0.2	Lum,IL
Dairyland	DSR-0645E	E3	R	0.4	Lum,IL
Dyna-Gro	S009XT68	RRX	S	00.9	EQV,SA
Dyna-Gro	S02EN71	E3	R	0.2	EQV,SA
Dyna-Gro	S04XT91	RRX	MR	0.4	EQV,SA
Golden Harvest	GH00833E3 GC	E3	MR	00.8	CMBV,SA
Golden Harvest	GH00982XF	RXF	MR	00.9	CMBV,SA
Golden Harvest	GH0145X	RRX	S	0.1	CMBV,SA
Golden Harvest	GH0272XF §	RXF	MR	0.2	CMBV,SA
Golden Harvest	GH0294E3 GC	E3	S	0.2	CMBV,SA
Golden Harvest	GH0325E3 GC	E3	MR	0.3	CMBV,SA
Golden Harvest	GH0443X	RRX	MR	0.4	CMBV,SA
Hefty	H008E1	E3	R	00.8	DST4,SA
Hefty	H009XF2	RXF	NA	00.9	DST4,SA
Hefty	H01X0	RRX	S	0.1	DST4,SA
Hefty	H02E1	E3	R	0.2	DST4,SA
Hefty	H04X8	RRX	MR	0.4	DST4,SA
Innotech	IS0156E3	E3	S	0.1	Fortify
Innotech	IS0343E3	E3	MR	0.3	Fortify
Latham	L 00839 E3	E3	R	00.8	SS+
Latham	L 0124 R2X	RRX	S	0.1	SS+,SA
Latham	L 0225 E3	E3	S	0.2	SS+
Latham	L 0254 XF	RXF	S	0.2	SS+,SA
Latham	L 0282 R2X	RRX	R	0.2	SS+
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+
Loyal	L0140E	E3	S	0.1	CMBV,SA
NK Brand	NK009-T1XF §	RXF	MR	00.9	CMBV,SA

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
NK Brand	NK02-M4XF	RXF	MR	0.2	CMBV,SA
NK Brand	NK04-G8E3 §	E3	R	0.4	CMBV,SA
Proseed	EL90-33N	E3	R	0.3	CMBV
Proseed	XF10-092N	RXF	R	00.9	CMBV
Proseed	XT80-20N	RRX	R	0.2	CMBV
Stine	003EB62 §	E3	R	00.3	NA
Stine	03EB02 §	E3	R	0.3	SFI
Thunder	SB8001	RRX	S	0.1	AM
Thunder	SB8104N	RRX	R	0.4	AM
Thunder	SB88007N	RRX	R	00.7	AM
Thunder	SB8903N	RRX	R	0.3	AM
Thunder	TE71008N	E3	R	00.8	AM
Thunder	TE7101N	E3	R	0.1	AM
Thunder	TX82008N	RXF	R	00.8	AM
Thunder	TX8203	RXF	S	0.3	AM
Xitavo	XO 0101E	E3	MR	0.1	PV,IL,OB
Xitavo	XO 0311E	E3	MR	0.3	PV,IL,OB

* 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
AM	ApronMaxx
CMBV	CruiserMaxx® Beans, Vibrance®
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,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.