

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

2021 Soybeans Top 30 Harvest Report

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

Matthew Krueger, Polk County, MN 56721

All-Season Test 00.7 - 0.4 Day CRM
S2021RRNO04

Top 30 of 53 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, 8.5 pH, 4.9%
OM, 30.6 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: Sep 28 132.9 /A

TEST COMMENTS:

The plot was planted in dry conditions but had a couple of good rains a few days after planting. This area was drier than average, with the driest period of time lasting from the end of June through the first part of August. Iron chlorosis was noticed in some varieties this summer, causing noticeable yield decreases at harvest. Matt said that the surrounding fields yielded in the 50 bpa range.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Golden Harvest	GH0443X ↗	RRX	0.4	MR	66.1	8.1	4	133.3	839	1
Asgrow	AG02X2 § ↗	RRX	0.2	R	65.0	8.1	1	133.3	826	2
Dairyland	DSR-0119E ↗	E3	0.2	S	63.6	8.1	0	133.3	808	3
Thunder	SB8104N ↗	RRX	0.4	R	62.4	8.2	2	133.3	792	4
Proseed	XT80-20N ↗	RRX	0.2	R	62.3	8.0	2	133.0	791	5
Hefty	H04X8 ↗	RRX	0.4	MR	61.8	8.8	0	133.3	785	6
Latham	L 0282 R2X ↗	RRX	0.2	R	61.2	7.8	3	133.0	777	7
Stine	03EB02 § ↗	E3	0.3	R	60.9	7.9	3	132.7	773	8
Thunder	SB8903N ↗	RRX	0.3	R	60.4	8.2	1	133.3	767	9
Dahlman	1201E3N ↗	E3	0.1	R	59.9	7.9	2	133.3	761	10
Dairyland	DSR-0645E ↗	E3	0.4	R	59.8	8.3	2	133.0	759	11
Brevant	B019EE GC ↗	E3	0.1	S	59.5	8.0	3	131.7	756	12
Dyna-Gro	S04XT91 ↗	RRX	0.4	MR	59.3	8.2	2	133.3	753	13
Golden Harvest	GH0325E3 GC ↗	E3	0.3	MR	58.7	7.8	3	132.3	745	14
Latham	L 0124 R2X ↗	RRX	0.1	S	57.8	7.6	2	132.3	734	15
Golden Harvest	GH0145X ↗	RRX	0.1	S	57.3	7.9	3	132.7	728	16
Hefty	H008E1 ↗	E3	0.8	R	57.3	7.9	2	132.3	728	17
Asgrow	AG03X7 § ↗	RRX	0.3	R	57.3	8.5	3	133.3	728	18
Loyal	L0140E ↗	E3	0.1	S	56.6	8.1	3	132.3	719	19
Golden Harvest	GH0272XF § ↗	RXF	0.2	MR	56.3	7.8	2	133.0	715	20
Xitavo	XO 0101E ↗	E3	0.1	MR	56.3	7.9	4	132.3	715	21
Xitavo	XO 0311E ↗	E3	0.3	MR	56.3	7.9	3	133.3	715	22
Thunder	TX8203 ↗	RXF	0.3	S	56.0	8.4	2	133.7	711	23
Golden Harvest	GH0294E3 GC ↗	E3	0.2	S	56.0	7.8	2	133.3	711	24
NK Brand	NK009-T1XF § ↗	RXF	0.9	MR	55.9	8.0	1	133.0	710	25
Proseed	EL90-33N ↗	E3	0.3	R	55.5	8.3	1	132.7	705	26
Asgrow	AG008X1 § ↗	RRX	0.8	R	55.2	7.6	2	133.0	701	27
Stine	003EB62 § ↗	E3	0.3	R	54.9	7.8	0	132.7	697	28
Thunder	SB8001 ↗	RRX	0.1	S	54.9	8.0	3	133.3	697	29
NK Brand	NK02-M4XF ↗	RXF	0.2	MR	54.8	7.9	0	134.0	696	30

Averages = **55.3** **8.2** **2** **132.9** **703**

LSD (0.10) = 6.4 1.1 ns

LSD (0.25) = 3.3 0.6 ns

Luke Brendemuhl

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C.V. = 11.0 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: 09/29/2021

† 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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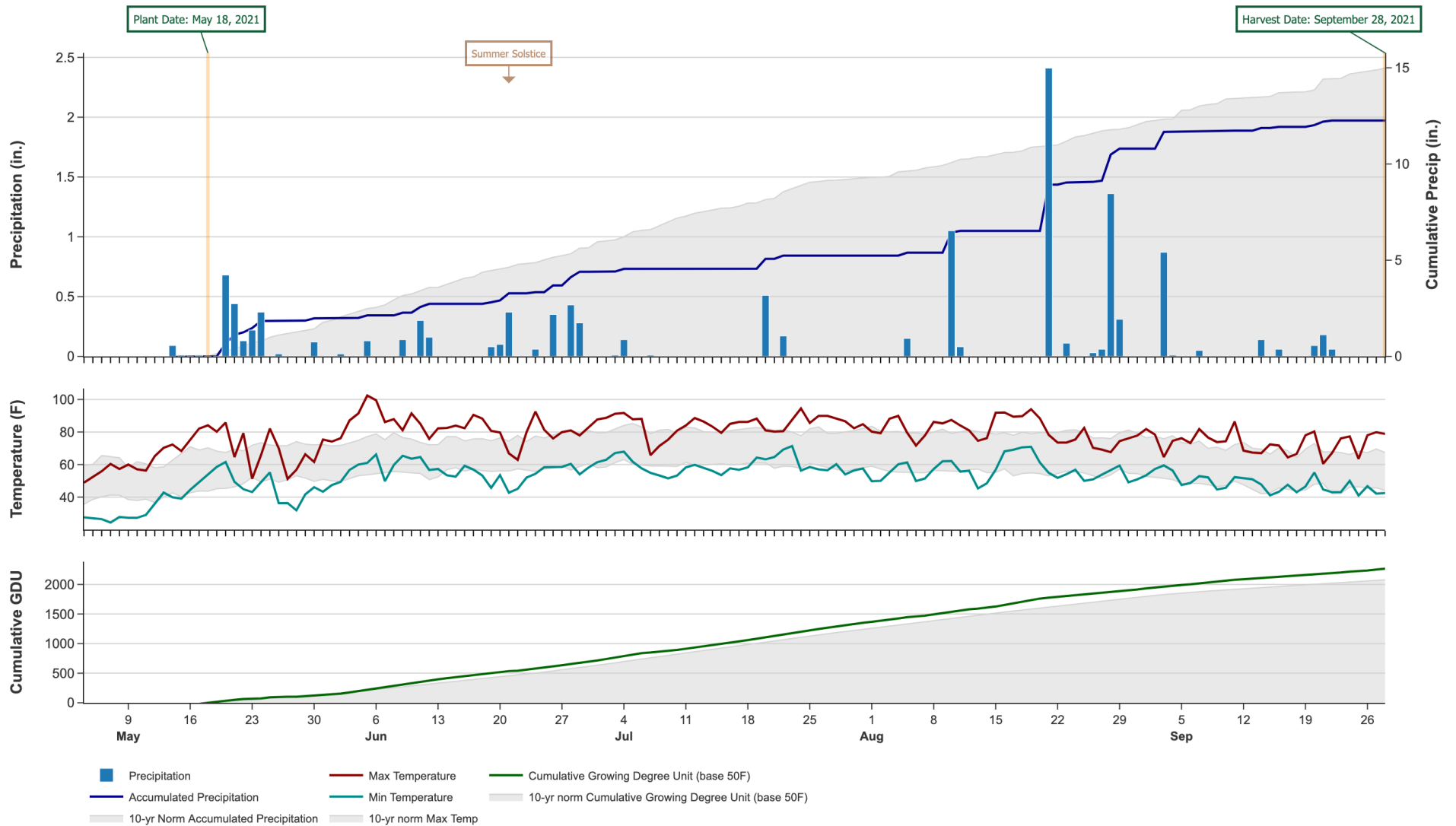
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Weather Conditions Summary at EAST GRAND FORKS, MN

Weather Data Retrieved: 09/29/2021

Monthly Total	May*	Jun	Jul	Aug	Sep*	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 2.9 (-1.5)	12.4 15.9 (-3.5)
GDU Normal (Diff)	214 209 (+4)	563 473 (+89)	661 627 (+33)	563 541 (+21)	350 291 (+58)	2351 2144 (+206)



* 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.