

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

## 2022 Soybeans Top 30 Harvest Report

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

Matthew Krueger, Polk County, MN 56721

<b>All-Season Test</b>	Maturity Group <b>00.7 - 0.4</b> S2022RRNO03
<b>Top 30 of 54</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn / Roundup, Laudis, Atrazine
<b>SOIL DESCRIPTION:</b>	Bearden-Colvin silty clay loam, mod. poorly drained, non- irrigated
<b>SOIL CONDITION:</b>	very low P, low K, 8.0 pH, 5.0% OM, 30.4 CEC
<b>TILLAGE/CULTIVATION:</b>	Conventional W/O Fall Till
<b>PEST MANAGEMENT:</b>	Fierce Ez, Interline, Intensity, Medal Ec
<b>Applied N-P-K (units):</b>	0-0-0
<b>SEEDED - RATE - ROW:</b>	Jun 9 140.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 18 116.9 /A

### TEST COMMENTS:

*Shortly after planting, this area experienced soil crusting caused by rains, which caused some delayed and uneven emergence. Iron chlorosis hit the area hard, but Matt had a more defensive variety than some in the plot. Most varieties here were affected, ranging from near barren plants to a few varieties being unaffected. Top-yielding products handled iron chlorosis best. Beans suffering IDC were hit hard by the first frost, taking more time to dry down and causing some green and malformed beans in the samples. Matt said the bean he planted around the plot yielded in the upper 40s. The yields were variable in the low-yield environment but were highly significant for variety differences.*

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Thunder	TX8304N ↗	RXF	0.4	R	<b>45.3</b>	10.4	0	118.3	601	1
Hefty	H03XF3 ↗	RXF	0.3	R	<b>41.0</b>	10.6	0	118.0	544	2
Proseed	XF30-42N ↗	RXF	0.4	R	<b>38.6</b>	10.5	0	117.7	512	3
REA	R0422XF ↗	RXF	0.4	R	<b>37.3</b>	10.9	0	114.7	495	4
NK Brand	NK009-G7E3 ↗	E3	00.9	R	<b>36.4</b>	10.6	0	118.3	483	5
Asgrow	AG01XF3 § ↗	RXF	0.1	R	<b>35.9</b>	10.3	0	116.7	476	6
Hefty	H009XF3 ↗	RXF	00.9	R	<b>35.0</b>	10.5	0	119.0	464	7
Latham	L 0254 XF ↗	RXF	0.2	S	<b>34.4</b>	9.7	0	118.3	456	8
Channel	0423RXF ↗	RXF	0.4	R	33.3	10.8	0	115.7	442	9
Channel	0122RXF ↗	RXF	0.1	S	33.2	10.1	0	112.0	440	10
Golden Harvest	GH00973E3 ↗	E3	00.9	R	33.2	10.4	0	113.0	440	11
NK Brand	NK04-G8E3 ↗	E3	0.4	R	33.2	10.6	0	119.0	440	12
Proseed	EL30-13 ↗	E3	0.1	S	33.0	10.5	0	114.3	438	13
Golden Harvest	GH0363E3 ↗	E3	0.3	R	32.9	10.6	0	120.0	436	14
Latham	L 0136 E3 ↗	E3	0.1	S	32.9	10.9	0	118.0	436	15
Asgrow	AG04XF2 § ↗	RXF	0.4	R	32.1	11.3	0	117.0	426	16
Thunder	TX8203 ↗	RXF	0.3	S	32.1	10.2	0	118.7	426	17
Hefty	H01XF3 ↗	RXF	0.1	R	31.9	10.3	0	119.3	423	18
Pioneer	P04A98E § ↗	E3	0.4	NA	31.9	10.9	0	121.7	423	19
Dak-Sota	DE5301 ↗	E3	0.1	S	30.2	10.5	0	110.3	400	20
Dyna-Gro	S01XF43 ↗	RXF	0.1	S	29.7	10.1	0	115.7	394	21
Stine	04EE06 § ↗	E3	0.4	R	29.4	11.2	0	116.7	390	22
NK Brand	NK03-V5E3 § ↗	E3	0.3	R	29.3	10.7	0	115.0	389	23
Dyna-Gro	S02EN71 ↗	E3	0.2	R	28.6	10.5	0	114.3	379	24
Stine	01EA63 § ↗	E3	0.1	S	28.4	10.6	0	117.3	377	25
Latham	L 00839 E3 ↗	E3	00.8	R	28.4	10.4	0	117.7	377	26
Proseed	EL30-33 ↗	E3	0.3	S	28.2	10.0	0	120.3	374	27
Dairyland	DSR-0220E ↗	E3	0.2	R	27.5	10.8	0	114.7	365	28
Dairyland	DSR-0645E ↗	E3	0.4	R	27.4	10.5	0	122.0	363	29
Golden Harvest	GH0213E3 § ↗	E3	0.2	R	27.2	10.9	0	116.3	361	30

Averages = **28.5** **10.4** **116.9** **378**

LSD (0.10) = 5.9 0.5 ns

LSD (0.25) = 3.1 0.3 ns

C.V. = 19.7

Historic yield: 45.41 bu/a, 6 yr(s)

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### Yield & Income Factors:

Base Moisture = 13.0%

Shrink = 1.3

Drying = \$0.025

Prices: GMO = \$13.26

Report Date: 10/19/2022

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

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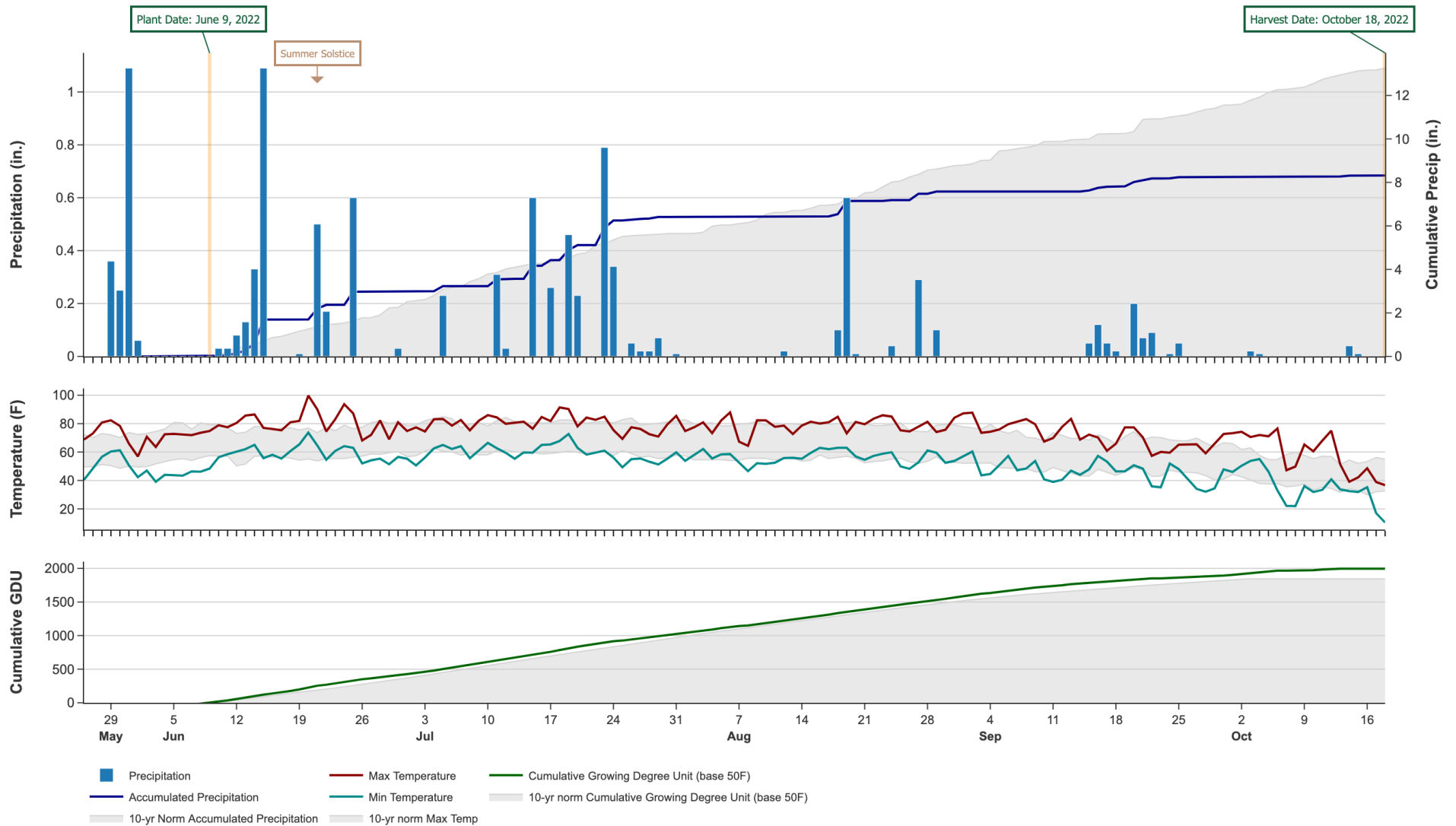
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# 2022 Soybeans - Red River North North Dakota & Minnesota [ RRNO ]

## Weather Conditions Summary at EAST GRAND FORKS, MN

Weather Data Retrieved: 10/19/2022

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in)   Normal (Diff)	1.7   0.6 (+1.1)	3.1   3.7 (-0.6)	3.4   3.4 (0.0)	1.2   3.1 (-1.9)	0.7   2.8 (-2.1)	0.1   1.7 (-1.6)	10.1   15.3 (-5.2)
GDU   Normal (Diff)	89   66 (+22)	498   490 (+7)	611   623 (-12)	544   529 (+14)	326   318 (+7)	103   20 (+82)	2171   2049 (+121)



\* 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 (54 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Asgrow	AG007XF3 §	RXF	S	00.7	ACi
Asgrow	AG01XF3 §	RXF	R	0.1	ACi,IL
Asgrow	AG04XF2 §	RXF	R	0.4	ACi
Brevant	B0090EE §	E3	R	00.9	Untreated
Channel	0122RXF	RXF	S	0.1	ACi,IL
Channel	0423RXF	RXF	R	0.4	ACi,IL
Dairyland	DSR-0220E	E3	R	0.2	Lum,Lu,IL
Dairyland	DSR-0645E	E3	R	0.4	Lum,Lu,IL
Dak-Sota	DE5301	E3	S	0.1	TFI
Dak-Sota	DE5303	E3	S	0.3	TFI
Dyna-Gro	S01XF43	RXF	S	0.1	EQV,Sa,Va
Dyna-Gro	S02EN71	E3	R	0.2	EQV,Sa,Va
Golden Harvest	GH00973E3	E3	R	00.9	CMBV,SA
Golden Harvest	GH0213E3 §	E3	R	0.2	CMBV,SA
Golden Harvest	GH0272XF §	RXF	MR	0.2	CMBV,SA
Golden Harvest	GH0363E3	E3	R	0.3	CMBV,SA
Hefty	H008E1	E3	R	00.8	Untreated
Hefty	H008XF2	RXF	NA	00.8	Untreated
Hefty	H009XF2	RXF	NA	00.9	Untreated
Hefty	H009XF3	RXF	R	00.9	Untreated
Hefty	H01XF3	RXF	R	0.1	DST4
Hefty	H03XF3	RXF	R	0.3	DST4
Latham	L 00725 XF	RXF	S	00.7	SS+,SA
Latham	L 00839 E3	E3	R	00.8	SS+,SA
Latham	L 0136 E3	E3	S	0.1	SS+,SA
Latham	L 0254 XF	RXF	S	0.2	SS+,SA
Latham	L 0293 E3	E3	R	0.2	SS+,SA
Latham	L 0425 E3	E3	S	0.4	SS+,SA
NK Brand	NK009-G7E3	E3	R	00.9	CMBV,SA
NK Brand	NK02-T4E3	E3	R	0.2	CMBV,SA
NK Brand	NK03-V5E3 §	E3	R	0.3	CMBV,SA
NK Brand	NK04-G8E3	E3	R	0.4	CMBV,SA
Pioneer	P005A59E §	E3	NA	00.5	Lum,Lu,IL
Pioneer	P009T18E GC	E3	NA	00.9	Lum,Lu,IL
Pioneer	P04A98E §	E3	NA	0.4	Lum,Lu,IL
Proseed	EL30-03N	E3	R	0.1	CMBV
Proseed	EL30-13	E3	S	0.1	CMBV
Proseed	EL30-33	E3	S	0.3	CMBV
Proseed	XF30-082	RXF	S	00.8	CMBV
Proseed	XF30-12	RXF	S	0.1	CMBV
Proseed	XF30-42N	RXF	R	0.4	CMBV
REA	R0112XF	RXF	S	0.1	ACi

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
REA	R0422XF	RXF	R	0.4	ACi,IL
Stine	01EA63 §	E3	S	0.1	SFI
Stine	03EB02 §	E3	R	0.3	SFI
Stine	04EE06 §	E3	R	0.4	SFI
Thunder	TE7101N	E3	R	0.1	TFI
Thunder	TE7302N	E3	R	0.2	TFI
Thunder	TE7304N	E3	R	0.4	TFI
Thunder	TX8203	RXF	S	0.3	TFI
Thunder	TX8301	RXF	S	0.1	TFI
Thunder	TX8304N	RXF	R	0.4	TFI
Xitavo	XO 0101E	E3	MR	0.1	PV,IL,OB,Rey
Xitavo	XO 0213E	E3	S	0.2	PV,IL,OB,Rey

## Footnotes and Abbreviations Descriptions

### Brand Footnotes

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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

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S	susceptible
MR	moderate resistance
R	resistant
n/a	info unavailable

### Soybeans Technologies

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E3	Enlist™ E3
RXF	Roundup Ready 2 XtendFlex®

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### Soybeans Seed Treatments\*

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NA	Not Available
ACi	Acceleron® Standard Insecticide-Fungicide
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
CMBV	CruiserMaxx® Beans, Vibrance®
CMBV,SA	Cruisermaxx® Beans, Vibrance®, Saltro®
DST4	Dominance 4 ST
EQV,Sa,Va	Equity VIP, Saltro®, Vayantis
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
PV,IL,OB,Rey	Poncho®/Votivo®, ILeVO, Obvius Plus, Relenya®
SFI	Stine XP F&I
SS+,SA	SoyShield Plus, Saltro®
TFI	ThunderStruck F&I (Thunder Seed Inc.)
Untreated	No seed treatment

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