

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

2022 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	Maturity Group 0.2 - 0.9 S2022RRCE02
Top 30 of 63	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Roundup, Laudis, Atrazine
SOIL DESCRIPTION:	Bearden-Colvin silty clay loam, mod. poorly drained, non-irrigated
SOIL CONDITION:	very low P, low K, 8.2 pH, 4.6% OM, 30.6 CEC
TILLAGE/CULTIVATION:	Conventional W/O Fall Till
PEST MANAGEMENT:	Fierce Ez, Interline, Intensity, Medal Ec
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	Jun 9 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 18 120.9 /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
Hefty	H03XF3 ↗	RXF	0.3	R	43.1	10.3	0	123.7	572	1
Thunder	TE7309N ↗	E3	0.9	R	40.9	11.2	0	121.3	542	2
Mustang	XF09123 ↗	RXF	0.9	R	38.6	10.1	0	121.3	512	3
Hefty	H09XF3 ↗	RXF	0.9	R	38.1	10.5	0	123.0	505	4
Dairyland	DSR-0920E ↗	E3	0.9	R	38.0	11.1	0	119.7	504	5
NK Brand	NK06-D9E3 § ↗	E3	0.6	R	37.8	10.7	0	118.0	501	6
Thunder	TX8309N ↗	RXF	0.9	R	37.6	10.6	0	117.3	499	7
Golden Harvest	GH0653XF ↗	RXF	0.6	R	37.5	10.4	0	120.3	497	8
Mustang	XF03312 ↗	RXF	0.3	S	37.3	10.5	0	121.3	495	9
Pioneer	P04A98E § ↗	E3	0.4	NA	36.8	10.3	0	126.3	488	10
Dyna-Gro	S07XF23 ↗	RXF	0.7	R	36.7	10.1	0	119.7	487	11
Latham	L 0528 LLGT27 ↗	LLGT27	0.5	R	36.5	10.3	0	121.3	484	12
NK Brand	NK06-P2XF § ↗	RXF	0.6	R	36.4	10.6	0	120.0	483	13
Latham	L 0945 LLGT27 ↗	LLGT27	0.9	R	35.7	10.7	0	118.3	473	14
Asgrow	AG02XF2 § ↗	RXF	0.2	R	35.4	10.4	0	122.0	469	15
Latham	L 0785 E3 ↗	E3	0.7	R	35.3	11.7	0	118.0	468	16
Hefty	H07XF1 ↗	RXF	0.7	NA	35.2	10.4	0	119.3	467	17
Latham	L 0728 XF ↗	RXF	0.7	R	35.0	10.7	0	120.0	464	18
Asgrow	AG04XF2 § ↗	RXF	0.4	R	35.0	10.2	0	118.3	464	19
Golden Harvest	GH0803XF ↗	RXF	0.8	R	34.9	10.5	0	118.7	463	20
AgriGold	G0577E3 ↗	E3	0.5	R	34.8	10.3	0	120.7	461	21
Latham	L 0694 XF ↗	RXF	0.6	R	34.7	10.8	0	120.7	460	22
Dyna-Gro	S05EN82 ↗	E3	0.5	R	34.6	10.1	0	121.7	459	23
Dak-Sota	DE5107 ↗	E3	0.7	R	34.2	12.0	0	119.7	453	24
Hefty	H06XF2 ↗	RXF	0.6	NA	34.1	10.2	0	118.3	452	25
Thunder	TX8307N ↗	RXF	0.7	R	34.0	10.8	0	125.5	451	26
Dak-Sota	DE5309 ↗	E3	0.9	R	33.6	10.6	0	119.7	446	27
Latham	L 0425 E3 ↗	E3	0.4	S	33.3	10.1	0	122.0	442	28
Dyna-Gro	S07EN61 ↗	E3	0.7	R	33.3	11.6	0	120.0	442	29
NK Brand	NK04-G8E3 ↗	E3	0.4	R	33.2	10.3	0	121.7	440	30

Averages = **32.4** **10.7** **0** **120.9** **428**

LSD (0.10) = 5.2 0.4 ns

LSD (0.25) = 2.8 0.2 ns

Luke Brendemuhl

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

C.V. = 15.4 Historic yield: 45.41 bu/a, 6 yr(s)

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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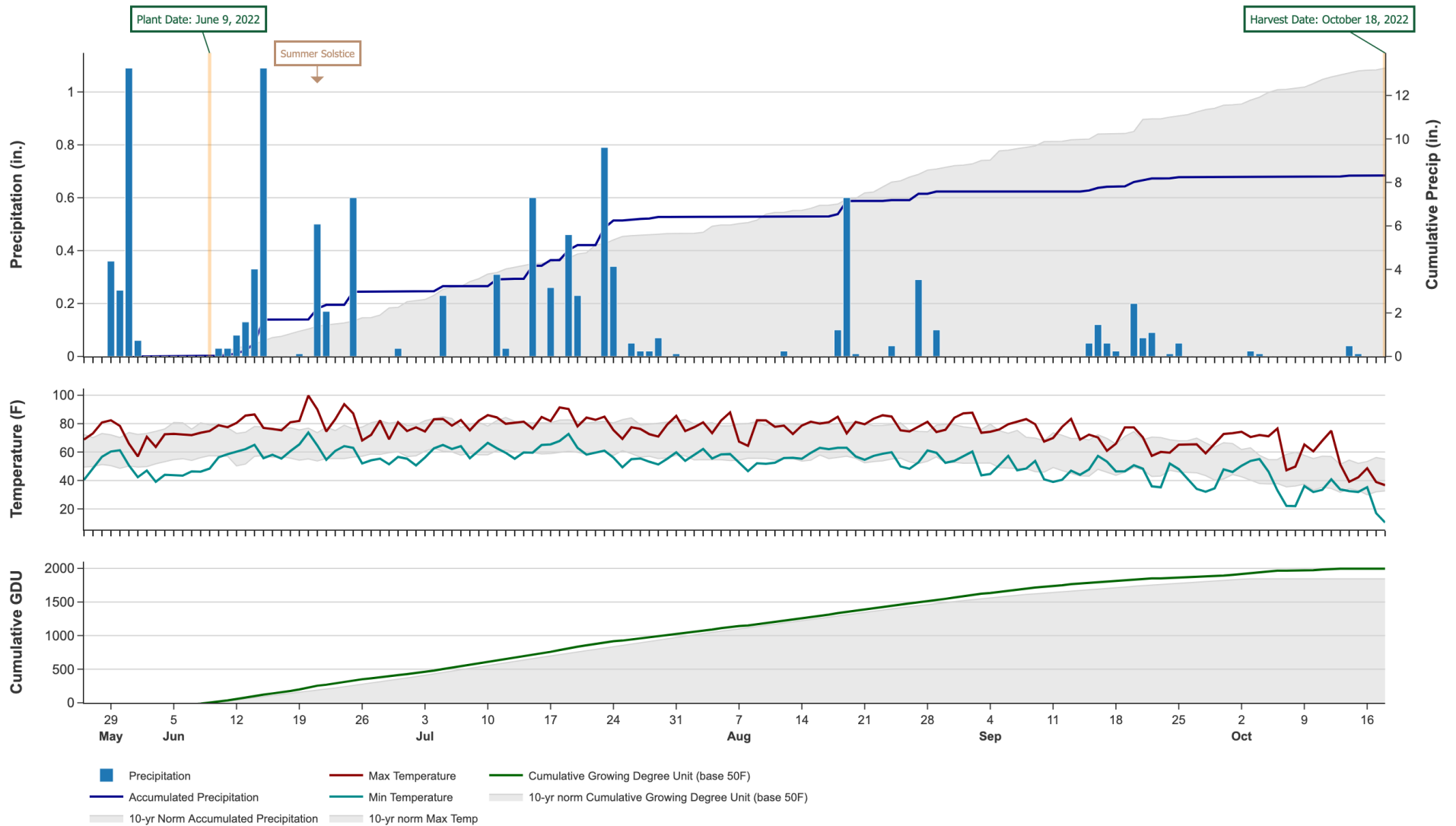
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Weather Conditions Summary at EAST GRAND FORKS, MN

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 (63 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
AgriGold	G0303E3	E3	R	0.3	ASfi,SA
AgriGold	G0577E3	E3	R	0.5	ASfi,SA
Asgrow	AG02XF2 §	RXF	R	0.2	ACi
Asgrow	AG04XF2 §	RXF	R	0.4	ACi
Asgrow	AG09XF3 §	RXF	R	0.9	ACi,IL
Brevant	B061EE §	E3	MR	0.6	Untreated
Brevant	B091EE §	E3	S	0.9	Untreated
Dairyland	DSR-0220E	E3	R	0.2	Lum,Lu,IL
Dairyland	DSR-0645E	E3	R	0.4	Lum,Lu,IL
Dairyland	DSR-0660E	E3	R	0.6	Lum,Lu,IL
Dairyland	DSR-0757E	E3	S	0.7	Lum,Lu,IL
Dairyland	DSR-0847E	E3	S	0.8	Lum,Lu,IL
Dairyland	DSR-0920E	E3	R	0.9	Lum,Lu,IL
Dak-Sota	DE5107	E3	R	0.7	TFI
Dak-Sota	DE5309	E3	R	0.9	TFI
Dyna-Gro	S05EN82	E3	R	0.5	EQV,Sa,Va
Dyna-Gro	S07EN61	E3	R	0.7	EQV,Sa,Va
Dyna-Gro	S07XF23	RXF	R	0.7	EQV,Sa,Va
Genesis	G0570E	E3	S	0.5	EcTC,SA
Golden Harvest	GH0213E3 §	E3	R	0.2	CMBV,SA
Golden Harvest	GH0653XF	RXF	R	0.6	CMBV,SA
Golden Harvest	GH0693E3	E3	R	0.6	CMBV,SA
Golden Harvest	GH0803XF	RXF	R	0.8	CMBV,SA
Hefty	H03XF3	RXF	R	0.3	DST4
Hefty	H05XF3	RXF	R	0.5	DST4
Hefty	H06XF2	RXF	NA	0.6	DST4
Hefty	H07XF1	RXF	NA	0.7	DST5
Hefty	H07XF3	RXF	R	0.7	DST4
Hefty	H08XF2	RXF	NA	0.8	DST4
Hefty	H09XF3	RXF	R	0.9	DST4
Latham	L 0425 E3	E3	S	0.4	SS+,SA
Latham	L 0528 LLGT27	LLGT27	R	0.5	SS+,SA
Latham	L 0694 XF	RXF	R	0.6	SS+,SA
Latham	L 0728 XF	RXF	R	0.7	SS+,SA
Latham	L 0785 E3	E3	R	0.7	SS+,SA
Latham	L 0945 LLGT27	LLGT27	R	0.9	SS+,SA
Latham	L 0959 E3	E3	R	0.9	SS+,SA
Latham	L 0984 XF	RXF	R	0.9	SS+,SA
Mustang	02E443	E3	S	0.2	Treated
Mustang	04E523	E3	R	0.4	Treated
Mustang	XF03312	RXF	S	0.3	Treated
Mustang	XF07723	RXF	R	0.7	Treated

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Mustang	XF09123	RXF	R	0.9	Treated
NK Brand	NK02-T4E3	E3	R	0.2	CMBV,SA
NK Brand	NK04-G8E3	E3	R	0.4	CMBV,SA
NK Brand	NK06-D9E3 §	E3	R	0.6	CMBV,SA
NK Brand	NK06-P2XF §	RXF	R	0.6	CMBV,SA
Paloma	PL20E61 GC	E3	NA	0.6	EcTC,SA
Pioneer	P04A98E §	E3	NA	0.4	Lum,Lu,IL
Stine	03EB02 §	E3	R	0.3	SFI
Stine	04EE06 §	E3	R	0.4	SFI
Stine	08EC32 §	E3	R	0.8	SFI
Thunder	TE7207	E3	S	0.7	TFI
Thunder	TE7309N	E3	R	0.9	TFI
Thunder	TX8305N	RXF	R	0.5	TFI
Thunder	TX8307N	RXF	R	0.7	TFI
Thunder	TX8309N	RXF	R	0.9	TFI
Xitavo	XO 0213E	E3	S	0.2	PV,IL,OB,Rey
Xitavo	XO 0311E	E3	MR	0.3	PV,IL,OB,Rey
Xitavo	XO 0573E	E3	S	0.5	PV,IL,OB,Rey
Xitavo	XO 0602E	E3	R	0.6	PV,IL,OB,Rey
Xitavo	XO 0731E	E3	R	0.7	PV,IL,OB,Rey
Xitavo	XO 0993E	E3	R	0.9	PV,IL,OB,Rey

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®
RXF	Roundup Ready 2 XtendFlex®

Soybeans Seed Treatments*

NA	Not Available
ACi	Acceleron® Standard Insecticide-Fungicide
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
ASfi,SA	AgriShield Max with Saltro®
CMBV,SA	Cruisermass® Beans, Vibrance®, Saltro®
DST4	Dominance 4 ST
DST5	Dominance 5 ST
EcTC,SA	Eclipse US Total Coverage Trio IM, N-Force, Saltro®
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.)
Treated	Treated, unspecified
Untreated	No seed treatment

* Seed treatments may include unspecified plant health promoting components.