

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

2022 Soybeans Top 30 Harvest Report

Red River Central North Dakota & Minnesota [RRCE]
COLGATE, ND

Satrom Hiam Seed, Thomas Hiam, Steele County, ND

All-Season Test

Maturity Group **0.2 - 0.9**
S2022RRCE03

Top 30 of 63

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

PREV. CROP/HERB:

Navy Beans / NA

SOIL DESCRIPTION:

Hamerly-Tonka loam, mod.
poorly drained, irrigated

SOIL CONDITION:

very high P, medium K, 6.4 pH,
3.3% OM, 19.5 CEC

TILLAGE/CULTIVATION:

Conventional W/ Fall Till

PEST MANAGEMENT:

Fierce Ez, Interline, Medal Ec

Applied N-P-K (units):

0-0-0

SEEDED - RATE - ROW:

Jun 8 140.0 /A 30" spacing

HARVESTED - STAND:

Oct 17 124.0 /A

TEST COMMENTS:

This location was the last soybean plot planted this year, a week later than the surrounding field. Planting conditions were dry but had adequate rains shortly after planting that helped activate pre-emerge herbicides and made for excellent emergence. Weed control was outstanding at this location, requiring one application of post-herbicide much later than the usual spraying timeframe. Early in the growing season, this area had high winds that caused damage to the crops; The plot was wind-whipped significantly but bounced back and looked excellent the rest of the growing season. Tom said that area yields were in the 40-50 bushels per acre range, depending on the location. He also stated that he was happy with yields considering the growing season struggles.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Latham	L 0528 LLGT27 ↗	LLGT27	0.5	R	48.3	10.7	0	127.0	640	1
Thunder	TE7207 ↗	E3	0.7	S	46.9	10.8	0	123.7	622	2
Dairyland	DSR-0920E ↗	E3	0.9	R	45.7	10.8	0	123.3	606	3
Thunder	TX8307N ↗	RXF	0.7	R	45.4	11.3	0	123.0	602	4
Latham	L 0984 XF ↗	RXF	0.9	R	45.2	11.3	0	123.3	599	5
Brevant	B091EE § ↗	E3	0.9	S	45.1	10.8	0	124.3	598	6
Hefty	H06XF2 ↗	RXF	0.6	NA	45.0	10.5	0	125.7	597	7
Dyna-Gro	S07EN61 ↗	E3	0.7	R	44.6	11.0	0	122.3	591	8
Thunder	TX8309N ↗	RXF	0.9	R	44.3	10.6	0	123.7	587	9
Asgrow	AG02XF2 § ↗	RXF	0.2	R	44.3	10.2	0	125.5	586	10
Hefty	H09XF3 ↗	RXF	0.9	R	44.2	10.3	0	123.3	586	11
Brevant	B061EE § ↗	E3	0.6	MR	44.1	10.8	0	124.3	585	12
Mustang	XF09123 ↗	RXF	0.9	R	43.7	10.7	0	125.0	579	13
Hefty	H07XF3 ↗	RXF	0.7	R	43.6	10.5	0	123.3	578	14
Stine	03EB02 § ↗	E3	0.3	R	43.5	10.5	0	123.7	577	15
Latham	L 0945 LLGT27 ↗	LLGT27	0.9	R	43.4	10.7	0	123.7	575	16
Asgrow	AG09XF3 § ↗	RXF	0.9	R	43.1	10.8	0	124.3	572	17
Thunder	TX8305N ↗	RXF	0.5	R	43.0	10.7	0	124.7	570	18
Dyna-Gro	S07XF23 ↗	RXF	0.7	R	42.9	10.7	0	124.7	569	19
Latham	L 0785 E3 ↗	E3	0.7	R	42.9	10.9	0	123.3	569	20
Stine	08EC32 § ↗	E3	0.8	R	42.9	10.5	0	123.7	569	21
Hefty	H08XF2 ↗	RXF	0.8	NA	42.8	10.5	0	124.7	568	22
Latham	L 0728 XF ↗	RXF	0.7	R	42.8	10.5	0	122.7	568	23
AgriGold	G0303E3 ↗	E3	0.3	R	42.7	10.6	0	124.0	566	24
Latham	L 0959 E3 ↗	E3	0.9	R	42.7	10.9	0	124.7	566	25
Hefty	H05XF3 ↗	RXF	0.5	R	42.6	10.6	0	125.0	565	26
Dyna-Gro	S05EN82 ↗	E3	0.5	R	42.3	10.6	0	123.0	561	27
Hefty	H03XF3 ↗	RXF	0.3	R	42.3	10.6	0	124.7	561	28
Pioneer	P04A98E § ↗	E3	0.4	NA	42.2	10.0	0	124.0	560	29
Dak-Sota	DE5309 ↗	E3	0.9	R	41.8	10.8	0	124.0	554	30

Averages = **41.5** **10.6** **0** **124.0** **550**

LSD (0.10) = 3.3 0.4 ns

LSD (0.25) = 1.7 0.2 ns

Luke Brendemuhl

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C.V. = 7.5

Historic yield: new site

Yield & Income Factors:

Base Moisture = 13.0%

Shrink = 1.3

Drying = \$0.025

Prices: GMO = \$13.26

Report Date: 10/18/2022

† 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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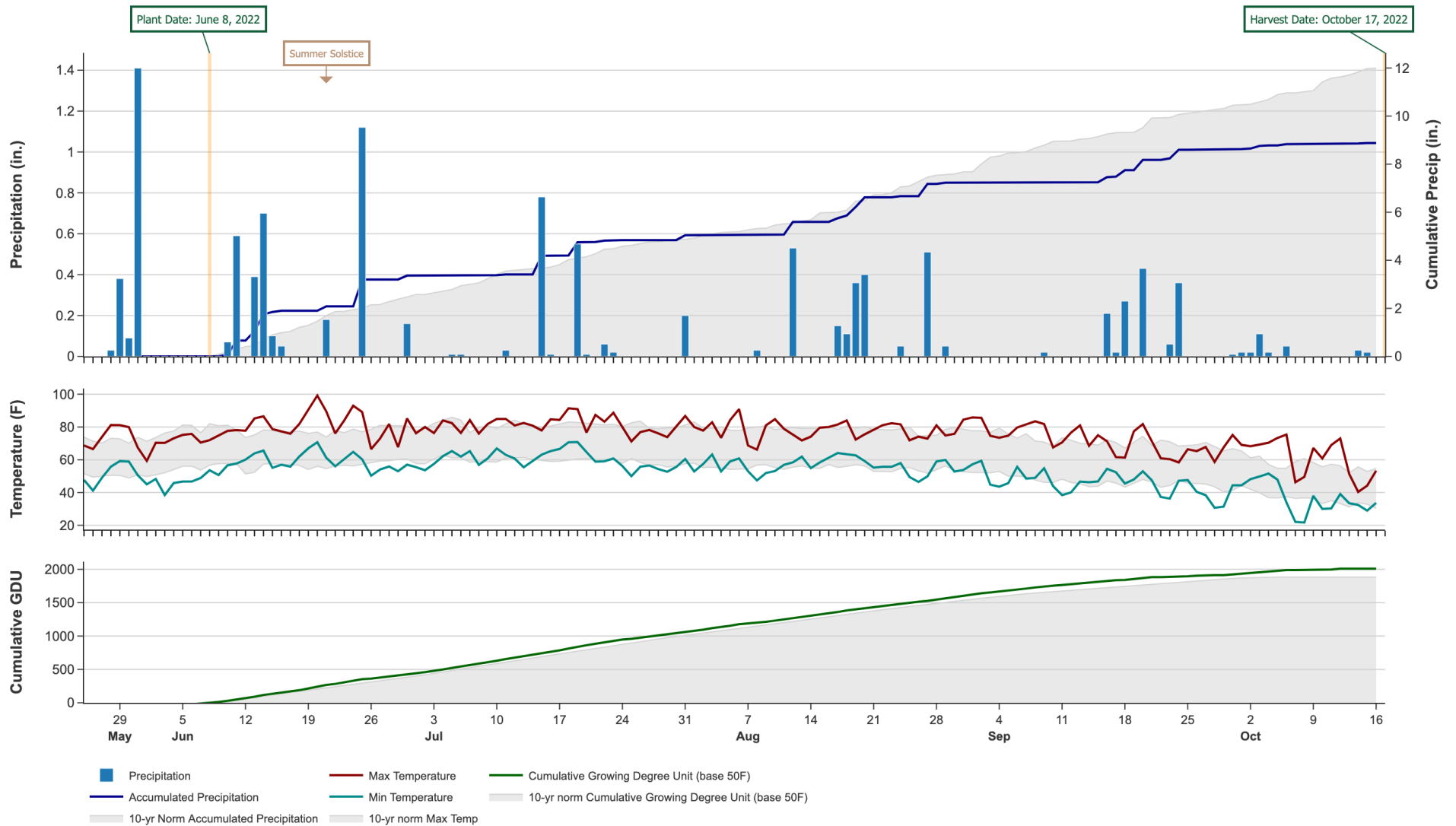
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2022 Soybeans - Red River Central North Dakota & Minnesota [RRCE]

Weather Conditions Summary at COLGATE, ND

Weather Data Retrieved: 10/18/2022

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	1.9 0.8 (+1.1)	3.4 3.0 (+0.4)	1.7 2.4 (-0.7)	2.2 2.8 (-0.6)	1.4 2.8 (-1.4)	0.3 1.6 (-1.3)	10.8 13.3 (-2.5)
GDU Normal (Diff)	97 79 (+17)	511 507 (+3)	635 628 (+6)	536 524 (+11)	327 326 (0)	84 19 (+64)	2190 2086 (+103)



* 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.