

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

2022 Soybeans Top 30 Harvest Report

Red River North North Dakota & Minnesota [RRNO]
DONALDSON, MN
Jackson Klein, Kittson County, MN 56728

All-Season Test	Maturity Group 00.7 - 0.4 S2022RRNO01
Top 30 of 54	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Sugarbeet / Roundup
SOIL DESCRIPTION:	Northcote clay, poorly drained, non-irrigated
SOIL CONDITION:	very high P, very high K, 7.9 pH, 5.8% OM, 32.1 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Fierce Ez, Interline, Mad Dog, Medal Ec
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	Jun 5 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 19 124.3 /A

TEST COMMENTS:

The plot was planted a little over a week after the surrounding field. Planting conditions were good, with adequate subsoil moisture. June was dry but had small, timely rains that kept the plot and surrounding area growing. During our early site visits, we noticed slight cupping among some varieties. As the growing season progressed, it was evident that dicamba damage from drift had caused damage, but the extent was not realized until harvest. Harvest was delayed due to some later varieties not being ripe enough before the first frost. Results were rejected due to dicamba drift damage.

Company/Brand	Product/Brand	Yield †	SW	SCN Resist.	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Agway	AG00072g +	NSP	0.1	R	45.8	10.8	0	124.3	432	1
Holly	H00072 +	NSP	0.2	R	44.8	11.1	0	124.7	391	2
Cherokee	CH00067 +	NSP	0.4	R	42.7	10.7	0	126.0	388	3
Agway	AG00072g +	NSP	0.4	R	42.6	11.0	0	122.7	385	4
Thompson	TH00066 +	NSP	0.4	R	42.1	10.7	0	125.0	380	5
NSA	NS00067 +	NSP	0.4	R	41.9	10.8	0	121.7	357	6
Lafayette	L000640 +	NSP	0.7	R	41.8	11.0	0	121.0	349	7
NSA	NS00067 +	NSP	0.1	R	41.8	10.8	0	121.7	341	8
Agway	AG00072g +	NSP	0.1	R	41.3	11.0	0	125.7	334	9
ProSeed	PS00426 +	NSP	0.1	R	38.4	11.0	0	127.3	325	10
Holly	H00072 +	NSP	0.1	R	37.5	11.0	0	122.3	324	11
Cherokee	CH00067 +	NSP	0.1	R	36.9	10.9	0	123.3	314	12
Cherokee	CH00066 +	NSP	0.1	R	36.7	10.8	0	126.7	313	13
ProSeed	PS00426 +	NSP	0.1	R	36.7	10.8	0	126.0	312	14
ProSeed	PS00412 +	NSP	0.1	R	37.8	10.8	0	126.7	303	15
NS Brand	NS0041823g +	ES	0.1	R	37.7	11.1	0	124.0	300	16
Holly	H00072 +	NSP	0.1	R	37.0	10.8	0	124.7	291	17
Golden Harvest	GH00063 +	NSP	0.1	R	36.6	10.8	0	124.0	285	18
Thompson	TH00061 +	NSP	0.1	R	36.2	10.3	0	126.7	280	19
Lafayette	L000640 +	NSP	0.2	R	36.1	10.7	0	126.0	279	20
NSA	NS00067 +	NSP	0.4	R	35.7	11.1	0	125.7	273	21
ProSeed	PS00412 +	ES	0.4	NS	34.2	11.4	0	122.7	263	22
NS Brand	NS0041823 +	ES	0.9	R	33.4	10.4	0	122.7	243	23
NS Brand	NS0041823 +	ES	0.4	R	33.0	10.8	0	122.7	238	24
NSA	NS00067g +	ES	0.3	R	32.8	10.8	0	125.3	235	25
ProSeed	PS00426 +	ES	0.3	R	32.8	10.8	0	124.7	235	26
ProSeed	PS00412 +	ES	0.1	R	32.5	11.0	0	124.0	231	27
Holly	H00072 +	NSP	0.9	NS	32.3	10.1	0	125.7	228	28
Cherokee	CH00061 +	ES	0.1	R	32.1	11.1	0	124.0	228	29
NSA	NS00067g +	ES	0.1	R	31.9	10.8	0	124.0	223	30

REJECTED

Averages = **32.9** **10.7** **0** **124.3** **436**

LSD (0.10) = 4.8 ns ns

LSD (0.25) = 2.5 ns ns

C.V. = 13.7

Historic yield: new site

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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

Additional reports available at www.firstseedtests.com

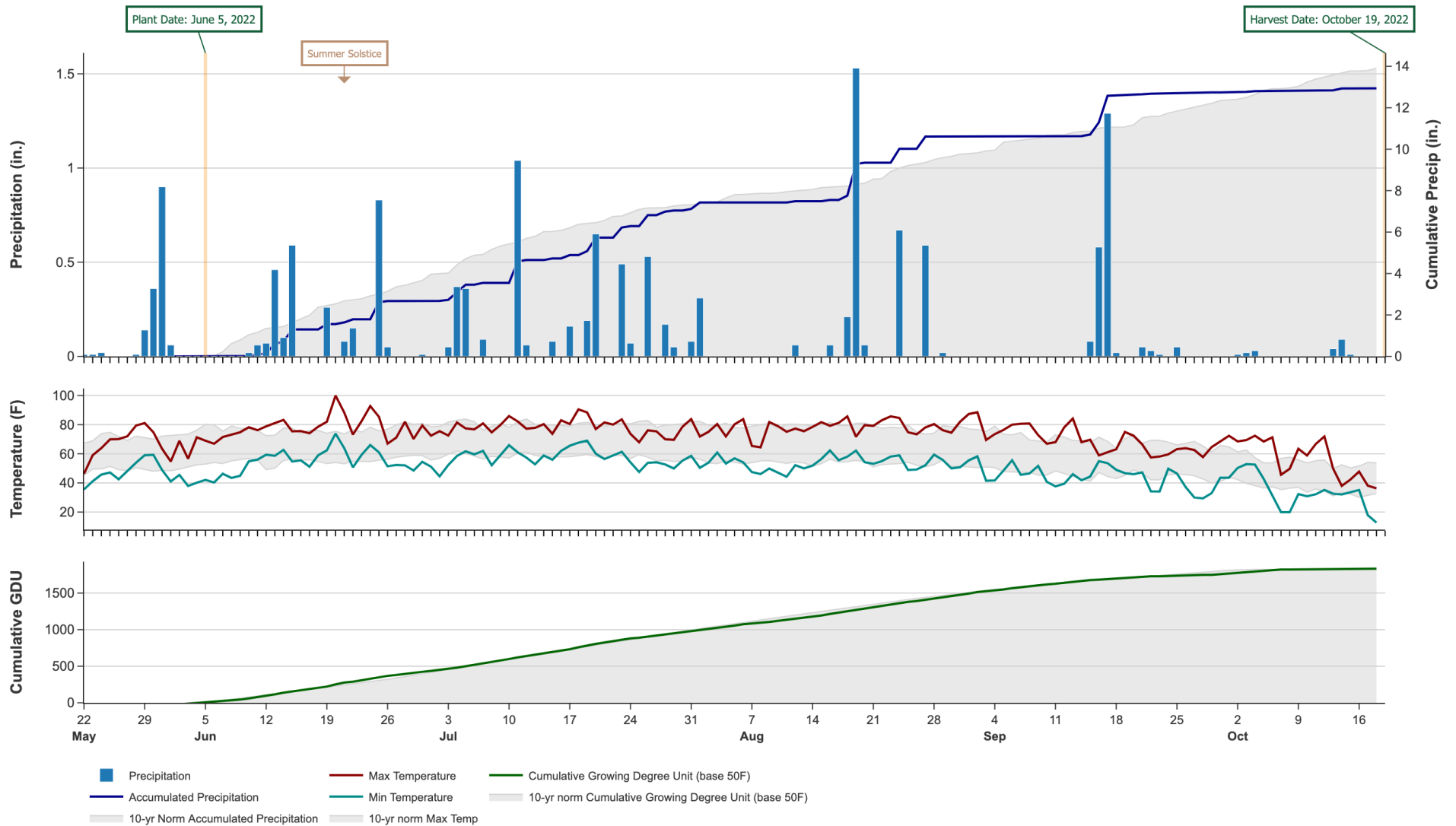
† See last page for abbreviation descriptions. Dark colored row identifies the check product found in early- and full-season tests. **Bold** yields are significantly above test average by LSD(0.10). **Italicized** brands exceed the grain moisture limit for this test. **ns** = column values not significantly different. ↗ Links to full product yield results at www.firstseedtests.com

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Weather Conditions Summary at DONALDSON, MN

Weather Data Retrieved: 10/19/2022

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	1.4 1.1 (+0.3)	2.7 4.2 (-1.5)	4.4 3.6 (+0.8)	3.5 2.5 (+1.1)	2.1 2.6 (-0.5)	0.2 1.6 (-1.4)	14.4 15.6 (-1.1)
GDU Normal (Diff)	103 106 (-3)	453 465 (-12)	554 596 (-42)	493 506 (-13)	286 302 (-16)	75 19 (+55)	1964 1995 (-31)



* 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

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
RXF	Roundup Ready 2 XtendFlex®

Soybeans Seed Treatments*

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

* Seed treatments may include unspecified plant health promoting components.