

Test by: Southern MN FIRST New Richland, MN

2023 Soybeans Top 30 Harvest Report

Minnesota South Central [MNSC] WINTHROP, MN

Jim Sallstrom, Sibley County, MN

All-Season Test Maturity Group 1.5 - 2.2
S2023MNSC07

Top 30 of 45 For Gross Income
(Sorted by Yield)
Average of (3) Replications

PREV. CROP/HERB: Corn / Acuron Gt
SOIL DESCRIPTION: Canisteo-Glencoe Complex clay loam, mod. poorly drained, non-irrigated

SOIL CONDITION: very low P, low K, 7.9 pH, 4.9% OM, 30.0 CEC

TILLAGE/CULTIVATION: Conventional W/ Fall Till

PEST MANAGEMENT: Sonic, Metrobuzin, Section Three, Liberty, Warrant

FERTILITY - Applied N: no additional fertilizer

Applied N-P-K (units): 0-0-0

SEEDED - RATE - ROW: May 25 130.0 /A 30" spacing

HARVESTED - STAND: Oct 11 115.3 /A

TEST COMMENTS:

A 4" rain on May 11 charged the soil profile, but it was extremely dry and hot until September (June = 1.6", July = 1.14", and Aug 2.38"). It was dry for three weeks after planting, and emergence struggled. At harvest, plants were healthy, and average height. Alkaline soils in the first horizontal replication shortened plant height and caused 6-8 bushel lower yields in that rep. Soils with higher pH lowered bean yields across southern MN in this dry season. The data for the plot was rejected due to high yield variability from drought stress.

Company/Brand	Product/Brand	Seeds /	SN	SN	Yield	Moisture	Logging	Stand	Gross Income	Rank
				Brand	bu/a	%	%	(x 1000)	\$/acre	
Pioneer	P184276 g	03	1.8	NA	80.8	9.0	0	116.5	775	1
Golden Harvest	G2224647 g	007	2.0	NA	80.4	8.8	0	113.7	767	2
Wisc	180300 g	03	1.8	R	80.1	9.4	0	116.3	764	3
Argus	A018471 g	007	1.8	R	80.0	8.8	0	113.7	761	4
Danland	D0414180	03	1.8	R	87.8	8.8	0	113.3	757	5
Zeevis	Z20000	03	2.0	NA	80.0	9.3	0	113.3	750	6
Zeevis	Z21010	03	2.1	NA	80.0	9.3	0	113.3	751	7
Golden Harvest	G2224643 GC	03	2.1	NA	80.1	9.1	0	113.7	728	8
Danland	D0414180	03	1.1	NA	80.0	8.8	0	113.0	724	9
Wisc	NO 17400	03	1.8	R	80.1	9.1	0	113.0	719	10
Dynalco	D184742	03	1.8	R	80.0	9.2	0	116.3	718	11
Wisc	NO 21400	03	2.1	R	80.0	8.8	0	116.0	711	12
Genesee	G17400	03	2.1	R	80.0	9.2	0	116.7	708	13
Argus	A018471 g	007	1.8	R	80.2	9.1	0	113.7	704	14
Top Pro	TP 18020	03	1.8	R	80.0	8.8	0	116.3	701	15
Wisc	NO 16400	03	1.8	R	80.0	8.8	0	116.3	698	16
Argus	A018471 g	007	1.8	R	80.0	8.7	0	113.0	696	17
Pioneer	P184276 g	03	1.8	NA	80.3	9.0	0	116.3	695	18
Wisc	NO 16000	03	1.8	R	80.2	9.2	0	113.7	691	19
Wisc	NO 16000	03	1.8	R	80.0	8.8	0	113.0	688	20
Holly	H1800	03	1.8	R	80.8	8.8	0	116.3	687	21
Danland	D0414180	03	1.8	R	80.8	9.3	0	114.7	687	22
Zeevis	Z18000	03	1.8	R	80.8	8.7	0	116.3	686	23
Anderson	A180007	007	1.8	NA	80.8	9.1	0	116.0	686	24
Holly	H1800	03	1.8	R	80.8	9.2	0	116.3	686	25
Wisc	NO 16000	03	1.8	R	80.7	9.1	0	116.3	685	26
Genesee	G17400	03	1.7	R	80.8	9.0	0	113.7	683	27
Wisc	180300 g	03	1.8	R	80.8	9.4	0	116.3	683	28
Logic	L21400 GC	03	2.1	NA	80.4	9.1	0	116.0	681	29
Golden Harvest	G2224643 g	03	1.8	R	80.4	9.2	0	114.7	681	30

REJECTED

Mark Querna

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Averages = **54.0** **9.0** **0** **115.3** **689**
 LSD (0.10) = ns 0.4 ns
 LSD (0.25) = ns 0.2 ns

C.V. = 10.6 Historic yield: 57.35 bu/a, 5 yr(s)

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.0 Drying = \$0.02 Prices: GMO = \$12.75

Report Date: 10/13/2023

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

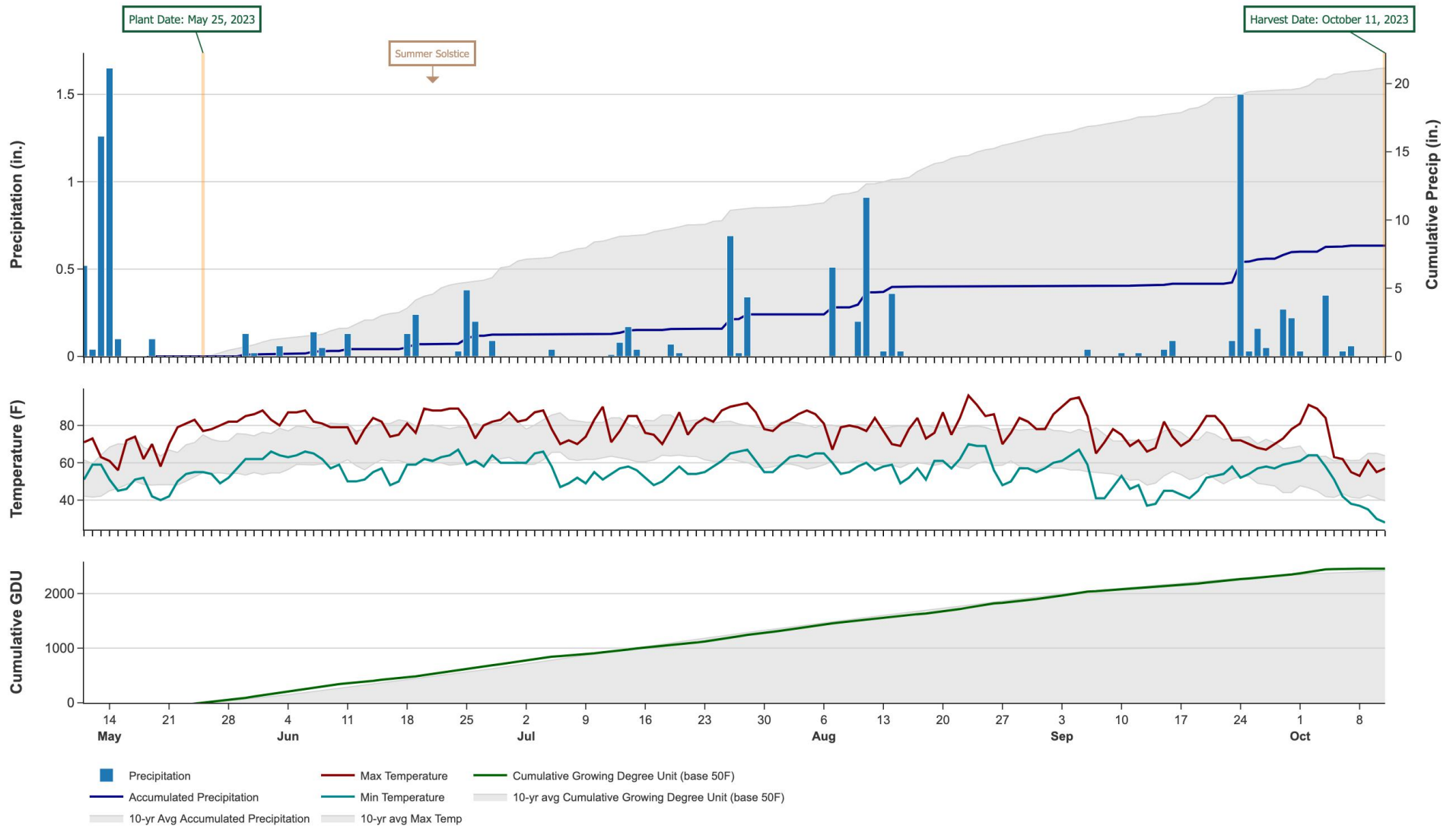
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2023 Soybeans - Minnesota South Central [MNSC]

Weather Conditions Summary at WINTHROP, MN

Weather Data Retrieved: 10/17/2023

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) (Diff)	3.8 3.2 (+0.6)	1.4 5.7 (-4.3)	1.5 4.3 (-2.8)	2.0 5.2 (-3.2)	2.5 3.5 (-0.9)	0.5 1.6 (-1.1)	11.8 23.5 (-11.7)
GDU Avg (Diff)	280 218 (+61)	616 585 (+30)	568 675 (-107)	598 594 (+3)	450 402 (+47)	105 74 (+30)	2617 2550 (+66)



* 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 (45 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Anderson	A182E3	E3	MR	1.8	Untreated
Anderson	A1923XF	RXF	MR	1.9	Untreated
Asgrow	AG16XF3 §	RXF	R	1.6	ACi,IL
Asgrow	AG18XF1 §	RXF	R	1.8	ACi,IL
Asgrow	AG19XF3 §	RXF	R	1.9	ACi,IL
Dairyland	DSR-1505E	E3	R	1.5	Lum,Lu,IL
Dairyland	DSR-1788E	E3	R	1.7	Lum,Lu,IL
Dairyland	DSR-1919E	E3	R	1.9	Lum,Lu,IL
Dairyland	DSR-2188E	E3	R	2.1	Lum,Lu,IL
Dyna-Gro	S16EN42	E3	R	1.6	EQV,Sa,Va
Dyna-Gro	S19XF62	RXF	R	1.9	EQV,Sa,Va
Dyna-Gro	S20EN84	E3	R	2.0	EQV,Sa,Va
Genesis	G1760E	E3	R	1.7	EcQ,NF,NH,SA
Genesis	G2180E	E3	R	2.1	EcQ,NF,NH,SA
Golden Harvest	GH1614E3 §	E3	R	1.6	CMB-APX,SA
Golden Harvest	GH1802E3 §	E3	R	1.8	CMB-APX,SA
Golden Harvest	GH2004XF §	RXF	MR	2.0	CMB-APX,SA
Golden Harvest	GH2292E3 GC	E3	MR	2.2	CMB-APX,SA
Hefty	H16E4	E3	R	1.6	DST5
Hefty	H18E3	E3	R	1.8	DST5
Hefty	H20E3	E3	R	2.0	DST5
Loyal	L1460E GC	E3	NA	1.4	EcQ,NF,NH
Loyal	L2150E GC	E3	NA	2.1	EcQ,NF,NH
Pioneer	P18A73E §	E3	NA	1.8	Lum, LumT, IL
Pioneer	P19A37E §	E3	NA	1.9	Lum
Pioneer	P19A66E §	E3	NA	1.9	Lum, LumT, IL
Stine	14EG32 §	E3	R	1.4	ACi
Stine	19EG92 §	E3	R	1.9	ACi
Stine	20EG02 §	E3	R	2.0	ACi
Stine	21EG32 GC	E3	R	2.1	ACi
Titan Pro	TP 18E22	E3	R	1.8	SA,A,R,TU
Xitavo	XO 1404E	E3	R	1.4	PV,IL,OB,Rey
Xitavo	XO 1632E	E3	R	1.6	PV,IL,OB,Rey
Xitavo	XO 1761E	E3	R	1.7	PV,IL,OB,Rey
Xitavo	XO 1822E	E3	R	1.8	PV,IL,OB,Rey
Xitavo	XO 1971E	E3	R	1.9	PV,IL,OB,Rey
Xitavo	XO 2181E	E3	R	2.1	PV,IL,OB,Rey
Xitavo	XO 2282E	E3	R	2.2	PV,IL,OB,Rey
Zinesto	Z1502E	E3	NA	1.5	DST5
Zinesto	Z1603E	E3	R	1.6	DST5
Zinesto	Z1802E	E3	NA	1.8	DST5
Zinesto	Z1902E	E3	NA	1.9	DST5

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Zinesto	Z2002E	E3	NA	2.0	DST5
Zinesto	Z2101E	E3	R	2.1	DST5
Zinesto	Z2202E	E3	NA	2.2	DST5

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	XtendFlex®

Soybeans Seed Treatments*

NA	Not Available
ACi	Acceleron® Standard Insecticide-Fungicide
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
CMB-APX,SA	CruiserMaxx® APX with Salstro®
DST5	Dominance 5 ST
EcQ,NF,NH	Eclipse US Total Quad-R, N-Force, N-Hibit
EcQ,NF,NH,SA	Eclipse US Total Quad-R, N-Force, N-Hibit, Saltro
EQV,Sa,Va	Equity VIP, Salstro®, Vayantis®
Lum	LumiGEN™
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
Lum, LumT, IL	LumiGEN™, LumiTreo, ILeVO
PV,IL,OB,Rey	Poncho®/Votivo®, ILeVO, Obvius Plus, Relenya®
SA,A,R,TU	Salstro, AllegianceFL, Redigo480, TriUp
Untreated	No seed treatment

* Seed treatments may include unspecified plant health promoting components.