

Test by: Southern MN FIRST New Richland, MN

2023 Soybeans Top 30 Harvest Report

Minnesota South [MNSO] KASSON, MN
Brian Herbst, Dodge County, MN 55944

All-Season Test	Maturity Group 1.6 - 2.3 S2023MNSO01
Top 30 of 45	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Force, Laudis, Atrazine
SOIL DESCRIPTION:	Readlyn silt loam, moderately drained, non-irrigated
SOIL CONDITION:	very high P, very high K, 6.8 pH, 2.9% OM, 14.7 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Dual, Metribuzin, Liberty, Warrant, Clethodim, Miravis Neo, Anova
FERTILITY - Applied N:	13.5# Sulfur, Manganese
Applied N-P-K (units):	0-0-84
SEDED - RATE - ROW:	May 18 130.0 /A 30" spacing
HARVESTED - STAND:	Oct 8 116.3 /A

TEST COMMENTS:

Brian recorded 4.71" of rain from planting to Sept 23rd, making this the 4th driest growing season on record, and drier than the drought of 1988. An extremely wet spring was a hidden blessing, as the soil profile was 100% full at planting. Moisture stress did not appear until late July. Seed size was smaller than normal, significantly reducing yields. Brian's bean yields are much below average this year, with the best yields in areas where the soil was lowest in elevation.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Zinesto	Z1702E ↗	E3	1.7	NA	50.8	11.4	0	113.7	648	1
Jacobsen	J1873E3 ↗	E3	1.8	R	50.5	11.3	0	119.0	644	2
Dairyland	DSR-1919E ↗	E3	1.9	R	49.7	10.8	0	119.3	634	3
Titan Pro	TP 18E22 ↗	E3	1.8	R	49.3	11.2	0	120.0	629	4
Zinesto	Z2002E ↗	E3	2.0	NA	49.2	10.9	0	113.3	627	5
Titan Pro	TP 22E23 ↗	E3	2.2	R	47.7	11.6	0	115.7	608	6
Xitavo	XO 1822E ↗	E3	1.8	R	47.5	11.5	0	118.3	606	7
Asgrow	AG21XF2 § ↗	RXF	2.1	R	47.3	11.3	0	116.7	603	8
Apex	AE1930 ↗	E3	1.9	R	47.0	11.0	0	117.3	599	9
Pioneer	P19A37E § ↗	E3	1.9	NA	46.8	11.0	0	117.3	597	10
Zinesto	Z2303E ↗	E3	2.3	R	46.7	11.4	0	111.7	595	11
Xitavo	XO 1971E ↗	E3	1.9	R	46.5	10.2	0	117.0	593	12
Mustang	23E824 ↗	E3	2.3	R	46.0	10.7	0	116.0	586	13
Pioneer	P18A73E § ↗	E3	1.8	NA	46.0	11.0	0	114.0	586	14
Genesis	G1760E ↗	E3	1.7	R	45.9	11.8	0	116.7	585	15
Dairyland	DSR-2188E ↗	E3	2.1	R	45.9	11.3	0	116.0	585	16
Xitavo	XO 1632E ↗	E3	1.6	R	45.6	11.6	0	116.7	581	17
Stine	17EE32 § ↗	E3	1.7	R	44.7	11.0	0	117.3	570	18
Golden Harvest	GH1973E3S § ↗	E3,ST	1.9	R	44.7	11.6	0	114.3	570	19
Golden Harvest	GH2292E3 § ↗	E3	2.2	MR	44.3	11.5	0	116.7	565	20
Zinesto	Z1902E ↗	E3	1.9	NA	44.2	10.4	0	116.0	564	21
Apex	AE2140 ↗	E3	2.1	R	43.6	11.9	0	114.3	556	22
Jacobsen	2213E3 ↗	E3	2.2	NA	43.4	10.7	0	116.0	553	23
Titan Pro	TP 20E22 ↗	E3	2.0	R	43.3	11.1	0	117.7	552	24
Asgrow	AG18XF1 § ↗	RXF	1.8	R	43.2	11.5	0	117.0	551	25
Zinesto	Z1802E ↗	E3	1.8	NA	42.6	10.8	0	115.0	543	26
Xitavo	XO 2323E ↗	E3	2.3	R	42.2	11.3	0	113.3	538	27
Dairyland	DSR-2310E ↗	E3	2.3	R	42.1	11.9	0	118.0	537	28
Dairyland	DSR-1788E ↗	E3	1.7	R	41.8	10.9	0	119.0	533	29
Jacobsen	J1942E3 ↗	E3	1.9	R	41.5	11.4	0	117.0	529	30

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Averages =	43.2	11.2	0	116.3	550
LSD (0.10) =	5.9	0.6	ns		
LSD (0.25) =	3.1	0.3	ns		
C.V. =	13.0				

Historic yield: 59.8 bu/a, 22 yr(s)

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

Report Date: 10/09/2023

† 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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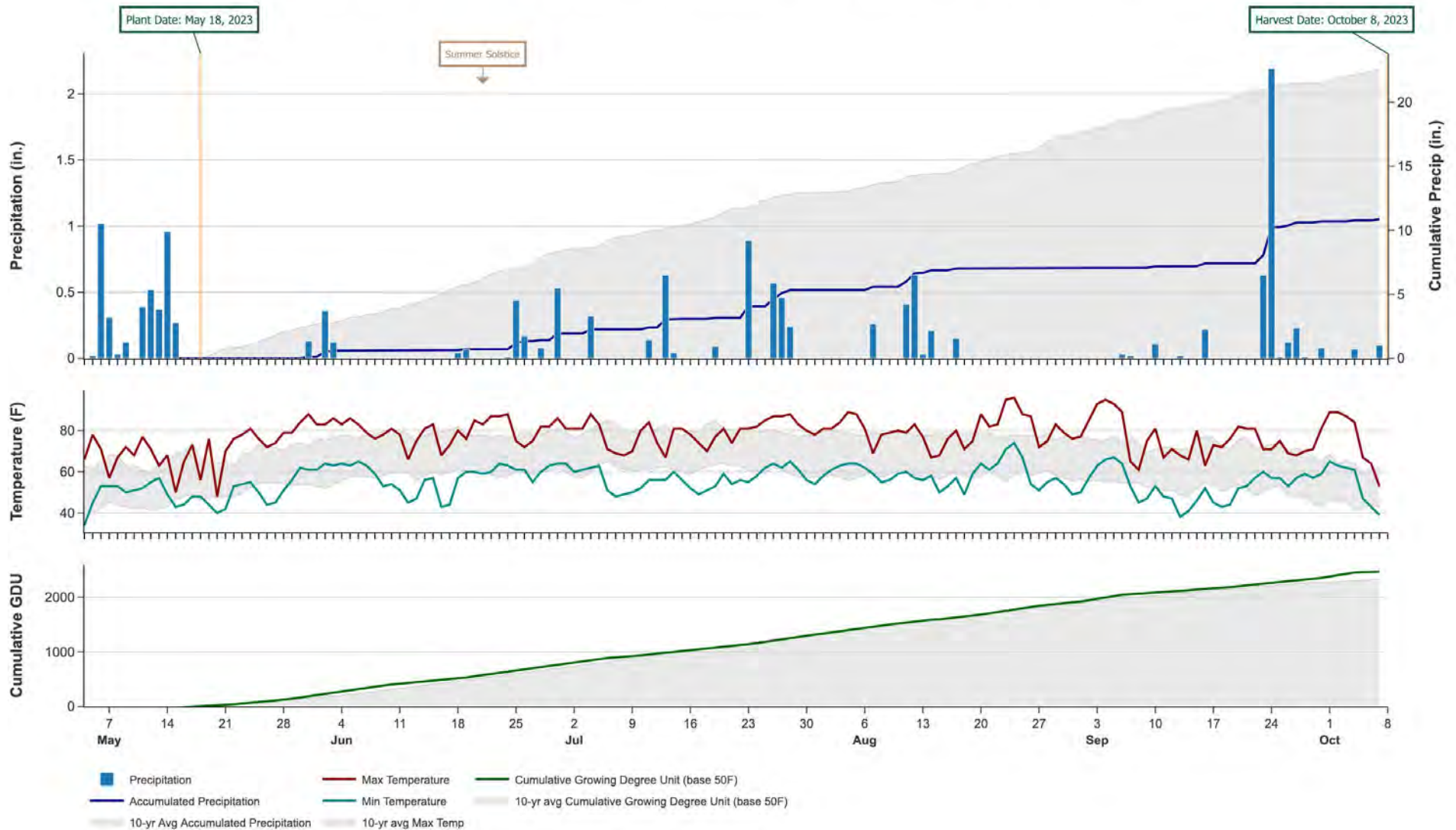
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2023 Soybeans - Minnesota South [MNSO]

Weather Conditions Summary at KASSON, MN

Weather Data Retrieved: 10/09/2023

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) (Diff)	4.1 4.9 (-0.8)	1.8 5.8 (-4.0)	3.4 4.7 (-1.3)	1.7 4.6 (-2.9)	3.7 4.0 (-0.3)	0.2 1.1 (-0.9)	14.9 25.0 (-10.1)
GDU Avg (Diff)	324 256 (+67)	578 547 (+30)	549 634 (-85)	592 562 (+29)	445 383 (+61)	112 47 (+64)	2600 2432 (+167)



* 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.
Apex	AE1441	E3	R	1.4	PU
Apex	AE1930	E3	R	1.9	PU
Apex	AE2140	E3	R	2.1	SA,A,R,TU
Asgrow	AG18XF1 §	RXF	R	1.8	ACi,IL
Asgrow	AG19XF3 §	RXF	R	1.9	ACi,IL
Asgrow	AG21XF2 §	RXF	R	2.1	ACi,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
Dairyland	DSR-2310E	E3	R	2.3	Lum, LumT, IL
Genesis	G1760E	E3	R	1.7	EcQ,NF,NH,SA
Genesis	G2180E	E3	R	2.1	EcQ,NF,NH,SA
Golden Harvest	GH1802E3 §	E3	R	1.8	CMB-APX,SA
Golden Harvest	GH1973E3S §	E3,ST	R	1.9	CMB-APX,SA
Golden Harvest	GH2292E3 §	E3	MR	2.2	CMB-APX,SA
Jacobsen	2213E3	E3	NA	2.2	F,I
Jacobsen	J1873E3	E3	R	1.8	F,I
Jacobsen	J1942E3	E3	R	1.9	Treated
Loyal	L1660E GC	E3	NA	1.6	EcQ,NF,NH
Loyal	L2160E GC	E3	NA	2.1	EcQ,NF,NH
Mustang	23E824	E3	R	2.3	Treated
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	17EE32 §	E3	R	1.7	ACi
Stine	19EG92 §	E3	R	1.9	ACi
Stine	20EG02 §	E3	R	2.0	ACi
Titan Pro	TP 18E22	E3	R	1.8	SA,A,R,TU
Titan Pro	TP 20E22	E3	R	2.0	SA,A,R,TU
Titan Pro	TP 22E23	E3	R	2.2	SA,A,R,TU
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
Xitavo	XO 2323E	E3	R	2.3	PV,IL,OB,Rey
Zinesto	Z1603E	E3	R	1.6	DST5
Zinesto	Z1702E	E3	NA	1.7	DST5
Zinesto	Z1802E	E3	NA	1.8	DST5
Zinesto	Z1902E	E3	NA	1.9	DST5
Zinesto	Z2002E	E3	NA	2.0	DST5

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Zinesto	Z2101E	E3	R	2.1	DST5
Zinesto	Z2202E	E3	NA	2.2	DST5
Zinesto	Z2303E	E3	R	2.3	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®
ST	Sulfonylurea tolerant

Soybeans Seed Treatments*

NA	Not Available
ACi	Acceleron® Standard Insecticide-Fungicide
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
CMB-APX,SA	CruiserMaxx® APX with Saltro®
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
F,I	Fungicide, Insecticide
Lum	LumiGEN™
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
Lum, LumT, IL	LumiGEN™, LumiTreo, ILEVO
PU	Protect Ultra
PV,IL,OB,Rey	Poncho®/Votivo®, ILeVO, Obvius Plus, Relenya®
SA,A,R,TU	Saltro, AllegianceFL, Redigo480, TriUp
Treated	Treated, unspecified

* Seed treatments may include unspecified plant health promoting components.