

Test by: Southern MN FIRST New Richland, MN

2023 Soybeans Top 30 Harvest Report

Minnesota South [MNSO] NEW RICHLAND, MN
Leon Schoenrock, Waseca County, MN 56072

All-Season Test	Maturity Group 1.6 - 2.3 S2023MNSO03
Top 30 of 45	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Surpass, Callisto, Atrazine, Stinger
SOIL DESCRIPTION:	Webster clay loam, mod. poorly drained, non-irrigated
SOIL CONDITION:	very high P, very high K, 5.2 pH, 4.6% OM, 28.1 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Flexstar, Liberty, Section Three
FERTILITY - Applied N:	no additional fertilizer
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 23 130.0 /A 30" spacing
HARVESTED - STAND:	Oct 9 116.6 /A

TEST COMMENTS:

This plot was planted two weeks after heavy rains, while the surrounding field was planted just before the rains. Plant height in the plot was 10" higher than the early-planted beans. Other farmers in the area replanted early-planted fields due to emergence and erosion issues. Disease and pest pressure was minimal. A 2.5" rain in mid-August gave these beans enough moisture to produce above average yields. Some of the varieties showed lodging due to the above-average height. Due to dicamba drift injury resulting in significant differences between tolerant and non-tolerant variety yields, the RXF varieties had significantly higher yields. Location results will not be included in region summaries.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Asgrow	AG19XF3 § ↗	RXF	1.9	R	77.6	10.8	0	115.7	989	1
Asgrow	AG21XF2 § ↗	RXF	2.1	R	76.4	11.4	0	116.7	974	2
Asgrow	AG18XF1 § ↗	RXF	1.8	R	74.5	11.2	0	117.0	950	3
Dairyland	DSR-2310E ↗	E3	2.3	R	71.9	10.8	2	118.0	917	4
Golden Harvest	GH2292E3 § ↗	E3	2.2	MR	71.7	10.6	1	117.3	914	5
Genesis	G1760E ↗	E3	1.7	R	71.5	10.9	10	118.0	912	6
Jacobsen	J1942E3 ↗	E3	1.9	R	70.8	10.8	2	119.0	903	7
Titan Pro	TP 22E23 ↗	E3	2.2	R	70.6	11.0	0	118.0	900	8
Zinesto	Z1702E ↗	E3	1.7	NA	70.4	11.0	8	114.0	898	9
Pioneer	P19A37E § ↗	E3	1.9	NA	69.1	10.6	0	117.7	881	10
Mustang	23E824 ↗	E3	2.3	R	68.6	10.9	1	116.7	875	11
Loyal	L2160E GC ↗	E3	2.1	NA	68.4	11.1	0	116.7	872	12
Xitavo	XO 1632E ↗	E3	1.6	R	68.2	10.8	0	116.0	870	13
Zinesto	Z1802E ↗	E3	1.8	NA	68.1	11.0	1	116.0	868	14
Jacobsen	J1873E3 ↗	E3	1.8	R	67.7	10.8	3	116.3	863	15
Zinesto	Z1902E ↗	E3	1.9	NA	67.5	11.3	1	118.0	861	16
Pioneer	P19A66E § ↗	E3	1.9	NA	67.4	10.8	2	115.0	859	17
Xitavo	XO 1761E ↗	E3	1.7	R	67.2	11.0	1	116.3	857	18
Xitavo	XO 1822E ↗	E3	1.8	R	67.1	11.0	2	117.3	856	19
Stine	17EE32 § ↗	E3	1.7	R	67.1	10.7	3	115.0	856	20
Stine	20EG02 § ↗	E3	2.0	R	66.5	11.2	3	117.7	848	21
Dairyland	DSR-1919E ↗	E3	1.9	R	66.4	10.9	0	116.3	847	22
Dairyland	DSR-1788E ↗	E3	1.7	R	66.4	10.4	0	114.3	847	23
Xitavo	XO 2323E ↗	E3	2.3	R	66.3	10.9	1	115.3	845	24
Apex	AE1930 ↗	E3	1.9	R	66.3	10.8	1	116.3	845	25
Golden Harvest	GH1973E3S § ↗	E3,ST	1.9	R	65.4	11.2	1	114.0	834	26
Apex	AE1441 ↗	E3	1.4	R	65.3	10.7	0	118.0	833	27
Dairyland	DSR-2188E ↗	E3	2.1	R	65.2	11.0	1	117.7	831	28
Zinesto	Z2202E ↗	E3	2.2	NA	65.0	10.8	1	116.3	829	29
Zinesto	Z2303E ↗	E3	2.3	R	65.0	10.5	2	118.0	829	30

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Averages =	66.7	10.9	2	116.6	851
LSD (0.10) =	3.1	0.3	3		
LSD (0.25) =	1.6	0.2	1		
C.V. =	4.5				

Historic yield: 61.72 bu/a, 21 yr(s)

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

Report Date: 10/11/2023

† 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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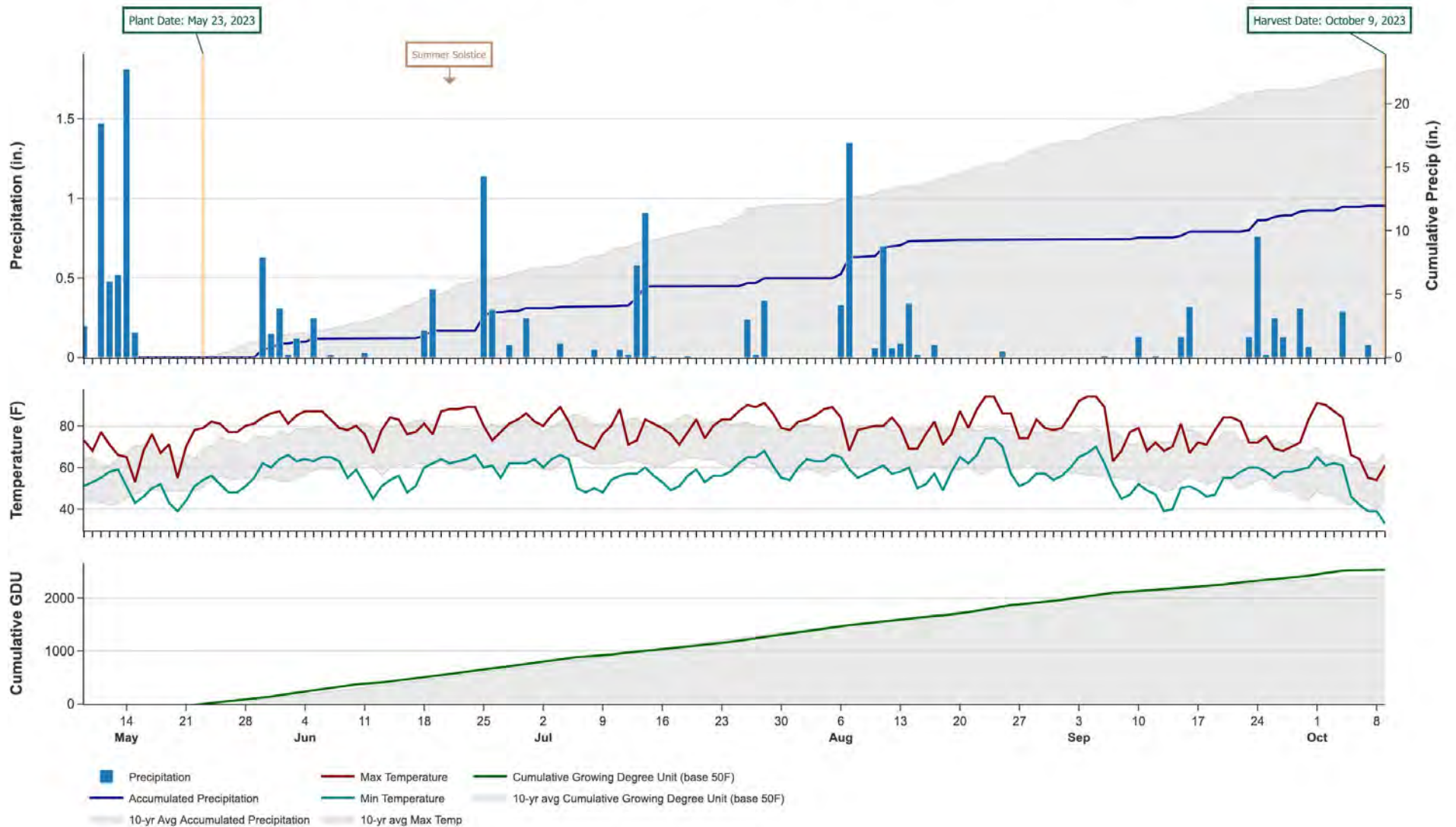
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Weather Conditions Summary at NEW RICHLAND, MN

Weather Data Retrieved: 10/11/2023

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) (Diff)	5.4 3.9 (+1.5)	3.1 5.3 (-2.2)	2.3 5.1 (-2.8)	3.1 4.9 (-1.8)	2.3 4.4 (-2.1)	0.4 1.5 (-1.1)	16.6 25.1 (-8.5)
GDU Avg (Diff)	298 235 (+62)	616 588 (+27)	576 663 (-87)	617 583 (+33)	472 412 (+59)	110 65 (+44)	2689 2548 (+140)



* 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.