

Test by: North Iowa F.I.R.S.T., Inc. Sanborn, IA

2024 Soybeans Top 30 Harvest Report

Iowa North Central [IANC] WATERLOO, IA
Rottinghaus Farms, Rottinghaus Farms, Black Hawk County,
IA 50703

All-Season Test	Maturity Group 2.1 - 2.9 S2024IANC04
Top 30 of 60	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Capreno, Atrazine
SOIL DESCRIPTION:	Marquis loam, mod. well drained, non-irrigated
SOIL CONDITION:	low P, medium K, 6.2 pH, 2.5% OM, 13.4 CEC
TILLAGE/CULTIVATION:	Strip-Till
PEST MANAGEMENT:	Liberty 280 SI, Outlook, Roundup Powermax 3, Section Three
FERTILITY - Applied N:	11 Spring
Applied N-P-K (units):	11-52-60
SEEDED - RATE - ROW:	May 16 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 4 73.0 /A

TEST COMMENTS:

The attached precipitation report tells the story of how wet it was around here. Rick recorded about 8" of rain in the gauge within a week after planting. Plant stands were severely reduced and the Rottinghaus brothers decided to replant. The plot was left alone and we observed poor emergence across much of the first and second replicates. The thin stand and excess rain also made weed control a struggle. Residual herbicide was not able to hold for long and full canopy never did occur. Two applications of Roundup + Liberty were applied during the season along with walking the plot two times for escapes. The plants looked short and the trial looked tough due to the thin stands. Overall, this was a challenging season for the bean plot on this farm.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Asgrow	AG27XF3 § ↗	RXF	2.7	R	60.6	9.1	0	81.3	618	1
FS HiSOY	HS 28E10 ↗	E3	2.8	M	59.6	9.0	2	81.3	608	2
Cornelius	CB24XF75 ↗	RXF	2.4	M	59.4	9.1	0	72.0	606	3
Xitavo	XO 2181E ↗	E3	2.1	M	58.7	8.8	4	76.7	599	4
Golden Harvest	GH2544XF § ↗	RXF	2.5	M	58.1	8.9	3	86.3	593	5
Titan Pro	TP 25E22 ↗	E3	2.5	PK	57.5	9.4	1	76.7	586	6
NuTech	24N05E ↗	E3	2.4	PK	56.9	9.1	0	81.3	580	7
FS HiSOY	HS 26F20 ↗	RXF	2.6	M	56.8	9.1	1	67.0	579	8
Pioneer	P28A39E § ↗	E3	2.8	M	56.8	9.1	3	62.3	579	9
Golden Harvest	GH2292E3 § ↗	E3	2.2	M	56.5	8.8	1	81.3	576	10
P3 Genetics	2424E ↗	E3	2.4	M	56.5	8.9	1	77.0	576	11
Stine	24EG23 § ↗	E3	2.4	M	56.3	8.9	1	86.3	574	12
NuTech	28N03E ↗	E3	2.8	M	56.1	9.0	1	81.3	572	13
Jacobsen	J2223E3 ↗	E3	2.2	S	55.5	9.1	2	86.0	566	14
Xitavo	XO 2865E ↗	E3	2.8	M	54.8	9.0	1	86.0	559	15
Genesis	G2790E ↗	E3	2.7	PK	54.4	9.2	1	67.0	555	16
FS HiSOY	HS 24F40 ↗	RXF	2.4	M	54.4	9.2	2	72.0	555	17
Genesis	G2090E ↗	E3	2.0	PK	54.3	8.9	0	81.7	554	18
NuTech	29N05E ↗	E3	2.9	PK	53.5	8.8	0	76.7	546	19
Genesis	G2960E ↗	E3	2.9	M	53.0	9.0	0	81.3	541	20
Genesis	G2391E ↗	E3	2.3	M	52.6	8.9	0	81.3	537	21
Stine	25EG23 § ↗	E3	2.5	M	52.5	8.9	1	77.0	536	22
Apex	AE2050 ↗	E3	2.0	PK	52.4	8.4	1	72.0	534	23
Xitavo	XO 2735E ↗	E3	2.7	M	52.1	8.9	1	81.3	531	24
Genesis	G2480E ↗	E3	2.4	M	51.8	9.0	3	86.0	528	25
Asgrow	AG29XF4 § ↗	RXF	2.9	PK	51.4	9.7	0	72.0	524	26
P3 Genetics	2523E ↗	E3	2.3	PK	51.1	8.9	0	72.0	521	27
NuTech	27N07E ↗	E3	2.7	M	50.9	8.9	0	76.7	519	28
Apex	AE2351 ↗	E3	2.3	M	50.8	8.9	0	67.3	518	29
NuTech	25N05E ↗	E3	2.5	PK	50.5	9.0	3	72.0	515	30

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Averages = **49.7** **9.0** **1** **73.0** **507**

LSD (0.10) = 6.6 ns ns

LSD (0.25) = 3.5 ns ns

C.V. = 12.6 Historic yield: 59.39 bu/a, 10 yr(s)

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.0 Drying = \$0.02 Prices: GMO = \$10.20

Report Date: 10/04/2024

† 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

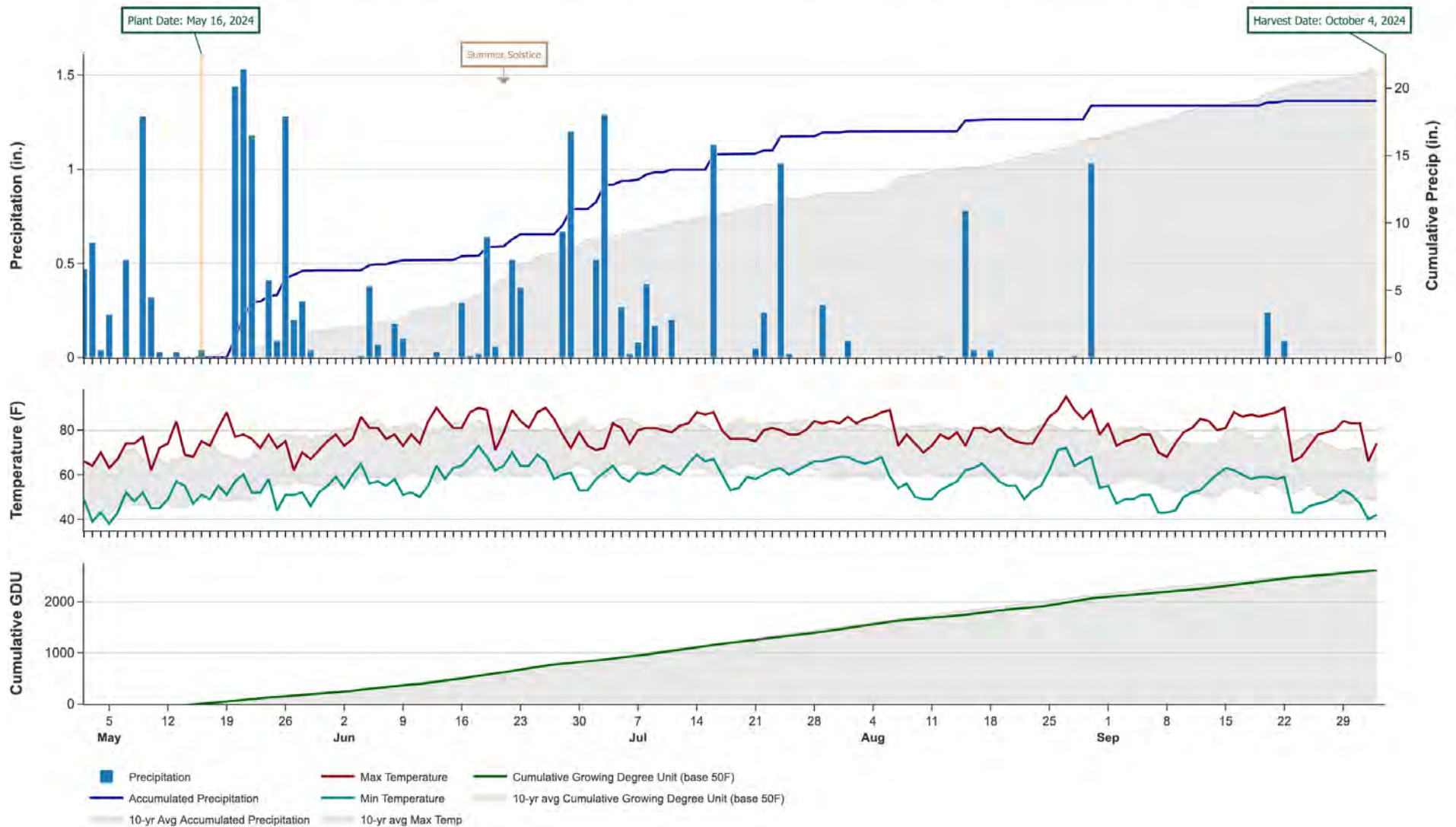
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2024 Soybeans - Iowa North Central [IANC]

Weather Conditions Summary at WATERLOO, IA

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) (Diff)	10.0 3.5 (+6.5)	4.5 6.3 (-1.7)	5.7 3.8 (+1.9)	2.0 4.1 (-2.1)	0.3 4.5 (-4.2)	0.0 0.6 (-0.6)	22.6 22.8 (-0.2)
GDU Avg (Diff)	368 332 (+35)	618 621 (-3)	640 690 (-50)	616 624 (-8)	494 450 (+43)	36 31 (+4)	2772 2751 (+20)



* 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 (60 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Apex	AE2050	E3	PK	2.0	CMBV,SA
Apex	AE2350	E3	PK	2.3	F,I
Apex	AE2351	E3	M	2.3	CMBV
Apex	AE2750	E3	PK	2.7	F,I
Asgrow	AG24XF4 §	RXF	R	2.4	ACi,IL
Asgrow	AG27XF3 §	RXF	R	2.7	ACi,IL
Asgrow	AG29XF4 §	RXF	PK	2.9	ACi,IL
Cornelius	CB24XF75	RXF	M	2.4	PG+
FS HiSOY	HS 22F40	RXF	M	2.2	ACi,SA
FS HiSOY	HS 23E40	E3	PK	2.3	ACi,SA
FS HiSOY	HS 24F40	RXF	M	2.4	ACi,SA
FS HiSOY	HS 25E30	E3	PK	2.5	ACi,SA
FS HiSOY	HS 26F20	RXF	M	2.6	ACi,SA
FS HiSOY	HS 28E10	E3	M	2.8	ACi,SA
FS HiSOY	HS 28F30	RXF	M	2.8	ACi,SA
FS HiSOY	HS 29E40	E3	PK	2.9	ACi,SA
Genesis	G2090E	E3	PK	2.0	CMBV,SA
Genesis	G2391E	E3	M	2.3	CMBV,SA
Genesis	G2480E	E3	M	2.4	EcTC,SA
Genesis	G2790E	E3	PK	2.7	EcTC,SA
Genesis	G2960E	E3	M	2.9	EcTC,SA
Golden Harvest	GH2292E3 §	E3	M	2.2	CMB-APX,SA
Golden Harvest	GH2544XF §	RXF	M	2.5	CMB-APX,SA
Golden Harvest	GH2674E3	E3	M	2.6	CMB-APX,SA
Golden Harvest	GH2775E3 §	E3	M	2.7	CMB-APX,SA
Hoegemeyer	2185 E	E3	PK	2.1	Lum, LumT, IL
Hoegemeyer	2395 E	E3	PK	2.3	Lum, LumT, IL
Jacobsen	J1873E3	E3	PK	1.8	F,I
Jacobsen	J1942E3	E3	PK	1.9	F,I
Jacobsen	J2223E3	E3	S	2.2	F,I
Jacobsen	J2473E3	E3	MR	2.4	F,I
NuTech	21N08E	E3	PK	2.1	Lum, LumT, IL
NuTech	22N04E	E3	PK	2.2	Lum, LumT, IL
NuTech	24N05E	E3	PK	2.4	Lum, LumT, IL
NuTech	25N05E	E3	PK	2.5	Lum, LumT, IL
NuTech	27N03E	E3	PK	2.7	Lum, LumT, IL
NuTech	27N07E	E3	M	2.7	Lum, LumT, IL
NuTech	28N03E	E3	M	2.8	Lum, LumT, IL
NuTech	29N05E	E3	PK	2.9	Lum, LumT, IL
P3 Genetics	2325E	E3	M	2.5	PG+
P3 Genetics	2424E	E3	M	2.4	PG+
P3 Genetics	2523E	E3	PK	2.3	PG+

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Pioneer	P21Z71E GC	E3	PK	2.1	Untreated
Pioneer	P23Z82E GC	E3	PK	2.3	Untreated
Pioneer	P28A39E §	E3	M	2.8	Untreated
Pioneer	P28A65E §	E3	M	2.8	Untreated
Pioneer	P29A19E §	E3	MR	2.9	Untreated
Stine	22EG02 §	E3	M	2.2	TFX1,SA
Stine	24EG23 §	E3	M	2.4	TFX1,SA
Stine	25EG23 §	E3	M	2.5	TFX1,SA
Titan Pro	TP 25E22	E3	PK	2.5	CMB-APX,SA
Titan Pro	TP 29E23	E3	M	2.9	CMB-APX,SA
Xitavo	XO 2075E	E3	PK	2.0	PV,IL,OB,Rey
Xitavo	XO 2181E	E3	M	2.1	PV,IL,OB,Rey
Xitavo	XO 2305E	E3	M	2.3	PV,IL,OB,Rey
Xitavo	XO 2444E	E3,ST	M	2.4	PV,IL,OB,Rey
Xitavo	XO 2625E	E3	M	2.6	PV,IL,OB,Rey
Xitavo	XO 2735E	E3	M	2.7	PV,IL,OB,Rey
Xitavo	XO 2865E	E3	M	2.8	PV,IL,OB,Rey
Xitavo	XO 2985E	E3	M	2.9	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®
RXF	XtendFlex®
ST	Sulfonylurea tolerant

Soybeans Seed Treatments*

NA	Not Available
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
ACi,SA	Acceleron® Standard Insecticide-Fungicide, Saltro®
CMB-APX,SA	CruiserMaxx® APX with Saltro®
CMBV	CruiserMaxx® Beans, Vibrance®
CMBV,SA	Cruisermaxx® Beans, Vibrance®, Saltro®
EcTC,SA	Eclipse US Total Coverage Trio IM, N-Force, Saltro®
F,I	Fungicide, Insecticide
Lum, LumT, IL	LumiGEN™, LumiTreo, ILEVO
PG+	Profit Guard +
PV,IL,OB,Rey	Poncho®/Votivo®, ILeVO, Obvius Plus, Relenya®
TFX1,SA	Stine MyYield, Saltro
Untreated	No seed treatment

* Seed treatments may include unspecified plant health promoting components.