

# 2023 Soybeans Top 30 Region Summary for Minnesota North Central [MNNC]

**Early-Season Test**  
**Maturity Group 0.6 - 1.0**  
S2023MNNCa

**Top 26 of 26**  
For Gross Income (Sorted by Yield), (8) Replication Average

Company/Brand	Product/Brand	Technol.†	RM	SCN	Yield Bu/A ↓	Protein (%)	Oil (%)	Moisture %	Lodging %	Gross Income \$/Acre	Rank	Albany *	Royalton	Starbuck	Wendell <b>REJECTED</b>
ZINESTO	Z1004E ↗	E3	1.0	R	<b>54.6</b>	34.1	<b>19.8</b>	16.4	0	709	1	51.7	63.9	<b>48.1</b>	44.4
ZINESTO	Z0804E ↗	E3	0.8	R	<b>54.5</b>	34.1	19.0	16.3	0	708	2	54.0	65.5	<b>43.9</b>	39.9
XITAVO	XO 0993E ↗	E3	0.9	R	54.0	34.3	<b>19.8</b>	16.0	1	702	3	<b>58.6</b>	64.3	39.2	40.2
ZINESTO	Z0903E ↗	E3	0.9	R	53.4	34.2	<b>19.9</b>	16.2	0	694	4	54.6	63.0	<b>42.5</b>	33.6
DAK-SOTA	DE5107 ↗	E3	0.7	R	53.3	34.7	19.0	16.3	0	693	5	51.6	65.3	<b>43.1</b>	29.2
DAIRYLAND	DSR-0920E ↗	E3	0.9	R	52.8	34.6	19.0	16.0	0	687	6	<b>62.0</b>	64.0	32.5	29.9
THUNDER	TX8307N ↗	RXF	0.7	R	52.8	34.1	18.3	16.2	2	686	7	51.4	<b>68.6</b>	38.3	34.0
XITAVO	XO 0602E ↗	E3	0.6	R	51.7	<b>35.4</b>	18.5	16.1	0	672	8	54.1	65.9	35.1	30.1
THUNDER	TE7309N ↗	E3	0.9	R	50.2	33.6	19.0	16.3	2	653	9	56.7	58.3	35.7	21.1
GOLDEN HARVEST	GH0734E3 § ↗	E3	0.7	MR	50.0	33.8	18.8	16.2	0	650	10	49.7	60.2	40.1	33.8
DAK-SOTA	DE5309 ↗	E3	0.9	R	49.6	33.8	<b>19.5</b>	16.2	2	644	11	55.1	52.2	<b>41.4</b>	41.4
ASGROW	AG09XF3 § ↗	RXF	0.9	R	48.8	33.7	18.6	16.2	3	634	12	52.4	<b>68.9</b>	25.1	25.1
ASGROW	AG06XF3 § ↗	RXF	0.6	R	48.3	33.7	19.0	16.2	0	628	14	53.5	55.9	35.5	25.1
PIONEER	P08A44E § ↗	E3	0.8	NA	48.3	<b>34.9</b>	<b>19.3</b>	16.1	0	628	15	46.7	58.2	40.1	33.8
ZINESTO	Z0701E ↗	E3	0.7	R	48.0	34.3	18.9	16.2	1	623	16	48.5	58.5	36.9	33.8
PIONEER	P04T02E § ↗	E3	0.4	NA	47.9	33.9	19.1	16.1	0	623	17	54.1	55.7	34.0	25.1
STINE	06EG29 § ↗	E3	0.6	R	46.7	33.8	18.4	16.1	3	607	18	55.8	47.4	37.0	25.1
THUNDER	TE7407N ↗	E3	0.7	R	46.5	<b>35.4</b>	18.4	16.3	0	605	19	48.8	59.3	31.5	33.8
DAIRYLAND	DSR-0660E ↗	E3	0.6	R	45.8	34.4	18.5	16.1	0	596	20	47.6	54.6	35.3	25.1
XITAVO	XO 0731E ↗	E3	0.7	R	45.5	<b>34.9</b>	19.1	16.1	0	591	21	45.8	49.8	40.8	33.8
DAIRYLAND	DSR-0757E ↗	E3	0.7	S	44.9	33.6	<b>19.7</b>	16.2	1	583	22	51.8	57.1	25.7	25.1
DAK-SOTA	DE5110 ↗	E3	1.0	R	44.7	<b>35.2</b>	18.4	16.1	0	581	23	42.7	54.9	36.4	30.6
STINE	08EG62 § ↗	E3	0.8	R	44.5	34.5	<b>19.6</b>	16.2	0	578	24	40.5	62.4	30.6	27.8
THUNDER	TX8309N ↗	RXF	0.9	R	44.1	34.2	18.6	16.4	5	573	25	40.3	58.2	33.8	39.3
GOLDEN HARVEST	GH0933E3 § ↗	E3	0.9	R	40.3	34.5	19.2	16.3	0	524	26	46.5	43.9	30.6	33.6
PIONEER	P06A85E CK ↗	E3	0.6	MR	48.7	34.2	<b>19.7</b>	16.1	0	632	13	52.6	62.4	31.0	31.6
PIONEER	P06A85E CK	E3	0.6	MR	48.7	34.2	<b>19.7</b>	16.1	0	632	13	52.6	62.4	31.0	31.6
<b>Averages =</b>					<b>48.8</b>	<b>34.3</b>	<b>19.0</b>	<b>16.2</b>	<b>1</b>	<b>635</b>		<b>51.0</b>	<b>58.9</b>	<b>36.2</b>	<b>32.0</b>
LSD (0.10) =					5.5	0.5	0.3	ns	ns			6.8	8.1	4.9	9.7
Ed Dahle LSD (0.25) =					2.9	0.2	0.2	ns	ns			3.5	4.2	2.6	5.1

**High yield variability**

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Prev. years average yield for region: 45.51 bu/a, 5 yr(s)

**Yield & Income Factors:** Base Moisture = 13.0% Shrink = 1.0 Drying = \$0.00 Prices: GMO = \$13.00

† 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 product's results at www.firstseedtests.com. Oil & Protein values average of 1 sample per location. \* 2 reps for the site.

Additional reports available at [www.firstseedtests.com](http://www.firstseedtests.com)

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Report Date: 11/16/2023 Revised: 01/09/2024 Protein and oil content results added.

# 2023 Soybeans Top 30 Region Summary for Minnesota North Central [MNNC]

## Full-Season Test

### Maturity Group 1.1 - 1.5

S2023MNNCb

Top 29 of 29

For Gross Income (Sorted by Yield), (9) Replication Average

Company/Brand	Product/Brand	Technol.†	RM	SCN	Yield Bu/A ↓	Protein (%)	Oil (%)	Moisture %	Lodging %	Gross Income \$/Acre	Rank	Albany	Royalton	Starbuck REJECTED	Wendell
GOLDEN HARVEST	GH1194E3 § ⚡	E3	1.1	MR	57.9	33.7	18.5	15.4	0	753	1	55.7	71.5	38.6	46.5
PIONEER	P13T47E § ⚡	E3	1.3	NA	56.2	33.8	19.0	15.2	0	730	2	57.2	65.1	43.2	46.2
DAIRYLAND	DSR-1290E ⚡	E3,ST	1.2	R	54.1	33.1	19.4	15.2	1	704	3	49.6	64.5	39.2	48.4
ZINESTO	Z1202E ⚡	E3	1.2	NA	53.9	35.4	18.3	15.3	0	701	4	61.4	62.0	41.1	38.4
ASGROW	AG12XF3 § ⚡	RXF	1.2	R	52.0	34.3	18.2	15.1	6	676	6	49.0	60.5	37.0	46.6
ZINESTO	Z1204E ⚡	E3	1.2	R	51.9	34.1	19.3	15.1	1	675	7	48.2	58.5	44.0	49.1
XITAVO	XO 1404E ⚡	E3	1.4	R	51.9	34.3	18.7	15.2	0	674	8	53.8	59.9	40.4	41.9
GOLDEN HARVEST	GH1124XF § ⚡	RXF	1.1	MR	51.7	35.1	18.5	15.5	1	673	9	45.0	61.6	41.9	48.7
DYNA-GRO	S14XF43 ⚡	RXF	1.4	MR	51.0	34.2	18.3	15.3	4	663	10	49.0	62.3	30.8	41.8
XITAVO	XO 1372E ⚡	E3,ST	1.3	R	51.0	33.1	19.5	15.2	0	663	11	53.0	60.4	38.9	39.5
STINE	10EF23 § ⚡	E3	1.0	R	50.8	34.4	19.1	15.2	0	660	12	52.3	57.7	38.4	42.2
XITAVO	XO 1212E ⚡	E3	1.2	R	50.6	34.5	18.8	15.4	0	658	13	57.0	58.2	38.9	36.7
STINE	14EG32 § ⚡	E3	1.4	R	50.6	34.5	18.4	15.2	1	658	14	52.4	61.5	38.9	37.9
THUNDER	TX8215N ⚡	RXF	1.5	R	50.2	34.2	18.5	15.4	3	653	15	55.4	61.5	38.9	33.8
CHANNEL	1022RFX GC ⚡	RXF	1.0	NA	49.7	34.8	18.9	15.1	0	646	16	49.7	56.5	38.9	43.0
DYNA-GRO	S12EN72 ⚡	E3	1.2	R	49.1	34.7	18.7	15.4	1	638	17	52.2	59.0	38.9	35.9
DAK-SOTA	DE5412 ⚡	E3	1.2	R	48.9	34.4	19.1	15.3	1	636	18	43.2	60.7	41.1	42.8
THUNDER	TX8414N ⚡	RXF	1.4	R	48.6	34.0	18.5	15.3	0	632	19	45.6	60.8	38.9	39.5
DAIRYLAND	DSR-1505E ⚡	E3	1.5	R	48.4	34.7	18.4	15.4	0	629	20	53.6	51.0	38.9	40.5
THUNDER	TE7415N ⚡	E3	1.5	R	47.7	33.0	19.2	15.4	1	620	21	51.7	50.0	38.9	41.3
THUNDER	TX8313N ⚡	RXF	1.3	R	47.6	34.2	18.2	15.3	2	619	22	52.6	53.2	38.9	37.0
XITAVO	XO 1133E ⚡	E3	1.1	R	47.2	34.5	18.6	15.3	0	613	23	49.5	51.3	35.9	40.7
GENESIS	G1560E ⚡	E3	1.5	R	46.0	34.1	18.7	15.5	1	598	24	50.4	49.6	34.2	38.1
DAIRYLAND	DSR-1450E ⚡	E3,ST	1.4	R	46.0	32.9	19.2	15.2	0	598	25	43.5	57.6	36.7	36.9
DAK-SOTA	DE5215 ⚡	E3	1.5	R	44.6	34.7	18.6	15.5	3	580	26	49.7	43.5	36.7	40.6
DAK-SOTA	DE5414 ⚡	E3	1.4	R	44.5	33.7	19.3	15.3	1	579	27	45.8	58.5	37.6	29.3
ASGROW	AG15XF2 § ⚡	RXF	1.5	R	44.4	33.3	19.1	15.2	1	577	28	50.0	42.8	40.0	40.4
ZINESTO	Z1502E ⚡	E3	1.5	NA	43.0	35.2	18.5	15.4	1	559	29	47.0	43.2	38.2	38.8
PIONEER	P06A85E CK ⚡	E3	0.6	MR	52.8	34.3	19.2	15.0	1	687	5	48.7	68.9	30.4	40.9
PIONEER	P06A85E CK	E3	0.6	MR	52.8	34.3	19.2	15.0	1	687	5	48.7	68.9	30.4	40.9
					<b>Averages =</b>	<b>49.7</b>	<b>34.2</b>	<b>18.8</b>	<b>15.3</b>	<b>1</b>	<b>647</b>	<b>50.7</b>	<b>57.7</b>	<b>37.9</b>	<b>40.8</b>
					LSD (0.10) =	5.4	0.6	0.4	0.1	2		5.1	8.8	7.5	6.0
					LSD (0.25) =	2.8	0.3	0.2	0.1	1		2.7	4.6	3.9	3.1
Ed Dahle															
ed.dahle@firstseedtests.com, (507) 456-6624					Prev. years average yield for region: 45.51 bu/a, 5 yr(s)										

#### Yield & Income Factors:

Base Moisture = 13.0%

Shrink = 1.0

Drying = \$0.00

Prices: GMO = \$13.00

† 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 product's results at www.firstseedtests.com. Oil & Protein values average of 1 sample per location. \* 2 reps for the site.

Additional reports available at [www.firstseedtests.com](http://www.firstseedtests.com)

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Report Date: 11/16/2023 Revised: 01/09/2024 Protein and oil content results added.

## 2023 Soybeans - Minnesota North Central [ MNNC ]

### Early-Season Test Products (26 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Asgrow	AG06XF3 §	RXF	R	0.6	ACi,IL
Asgrow	AG09XF3 §	RXF	R	0.9	ACi,IL
Dairyland	DSR-0660E	E3	R	0.6	Lum, LumT, IL
Dairyland	DSR-0757E	E3	S	0.7	Lum,Lu,IL
Dairyland	DSR-0920E	E3	R	0.9	Lum,Lu,IL
Dak-Sota	DE5107	E3	R	0.7	TFI
Dak-Sota	DE5110	E3	R	1.0	TFI
Dak-Sota	DE5309	E3	R	0.9	TFI
Golden Harvest	GH0734E3 §	E3	MR	0.7	CMB-APX,SA
Golden Harvest	GH0933E3 §	E3	R	0.9	CMB-APX,SA
Pioneer	P04T02E §	E3	NA	0.4	Untreated
Pioneer	P06A85E CK	E3	MR	0.6	Lum,IL
Pioneer	P08A44E §	E3	NA	0.8	Untreated
Stine	06EG29 §	E3	R	0.6	ACi
Stine	08EG62 §	E3	R	0.8	ACi
Thunder	TE7309N	E3	R	0.9	TFI
Thunder	TE7407N	E3	R	0.7	TFI
Thunder	TX8307N	RXF	R	0.7	TFI
Thunder	TX8309N	RXF	R	0.9	TFI
Xitavo	XO 0602E	E3	R	0.6	PV,IL,OB,Rey
Xitavo	XO 0731E	E3	R	0.7	PV,IL,OB,Rey
Xitavo	XO 0993E	E3	R	0.9	PV,IL,OB,Rey
Zinesto	Z0701E	E3	R	0.7	DST5
Zinesto	Z0804E	E3	R	0.8	DST5
Zinesto	Z0903E	E3	R	0.9	DST5
Zinesto	Z1004E	E3	R	1.0	DST5

## 2023 Soybeans - Minnesota North Central [ MNNC ]

### Full-Season Test Products (29 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Asgrow	AG12XF3 §	RXF	R	1.2	ACi,IL
Asgrow	AG15XF2 §	RXF	R	1.5	ACi,IL
Channel	1022RXF GC	RXF	NA	1.0	Untreated
Dairyland	DSR-1290E	E3,ST	R	1.2	Lum,Lu,IL
Dairyland	DSR-1450E	E3,ST	R	1.4	Lum,Lu,IL
Dairyland	DSR-1505E	E3	R	1.5	Lum,Lu,IL
Dak-Sota	DE5215	E3	R	1.5	TFI
Dak-Sota	DE5412	E3	R	1.2	TFI
Dak-Sota	DE5414	E3	R	1.4	TFI
Dyna-Gro	S12EN72	E3	R	1.2	EQV,Sa,Va
Dyna-Gro	S14XF43	RXF	MR	1.4	EQV,Sa,Va
Genesis	G1560E	E3	R	1.5	EcQ,NF,NH,SA
Golden Harvest	GH1124XF §	RXF	MR	1.1	CMB-APX,SA
Golden Harvest	GH1194E3 §	E3	MR	1.1	CMB-APX,SA
Pioneer	P06A85E CK	E3	MR	0.6	Lum,IL
Pioneer	P13T47E §	E3	NA	1.3	Lum, LumT, IL
Stine	10EF23 §	E3	R	1.0	NA
Stine	14EG32 §	E3	R	1.4	ACi
Thunder	TE7415N	E3	R	1.5	TFI
Thunder	TX8215N	RXF	R	1.5	TFI
Thunder	TX8313N	RXF	R	1.3	TFI
Thunder	TX8414N	RXF	R	1.4	TFI
Xitavo	XO 1133E	E3	R	1.1	PV,IL,OB,Rey
Xitavo	XO 1212E	E3	R	1.2	PV,IL,OB,Rey
Xitavo	XO 1372E	E3,ST	R	1.3	PV,IL,OB,Rey
Xitavo	XO 1404E	E3	R	1.4	PV,IL,OB,Rey
Zinesto	Z1202E	E3	NA	1.2	DST5
Zinesto	Z1204E	E3	R	1.2	DST5
Zinesto	Z1502E	E3	NA	1.5	DST5

## Footnotes and Abbreviations Descriptions

### Brand Footnotes

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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

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S	susceptible
MR	moderate resistance
R	resistant
n/a	info unavailable

### Soybeans Technologies

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E3	Enlist E3®
RXF	XtendFlex®
ST	Sulfonylurea tolerant

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### Soybeans Seed Treatments\*

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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,SA	Eclipse US Total Quad-R, N-Force, N-Hibit, Saltro
EQV,Sa,Va	Equity VIP, Saltro®, Vayantis®
Lum,IL	LumiGEN™ plus ILeVO
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
Lum, LumT, IL	LumiGEN™, LumiTreo, ILEVO
PV,IL,OB,Rey	Poncho®/Motivo®, ILeVO, Obvius Plus, Relenya®
TFI	ThunderStruck F&I (Thunder Seed Inc.)
Untreated	No seed treatment

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\* Seed treatments may include unspecified plant health promoting components.