

2020 Soybeans Top 30 Performance Summary for Minnesota Central [MNCE]

Early-Season Test

1.3 - 1.6 Day CRM

S2020MNCEa

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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	Buffalo	Clinton	Lester Prairie	Starbuck REJECTED
PROSEED	EL91-33	E3	1.3	R	63.9			9.0	0	608	1	72.0	62.9	56.9	31.6
GOLD COUNTRY	1609X GC	RRX	1.6	R	58.9			8.9	0	560	2	70.5	50.9	55.4	28.2
ZINESTO	Z1400E	E3	1.4	R	58.3			8.9	0	554	3	58.8	60.6	55.4	26.4
STINE	14EB26 §	E3	1.4	R	58.2			8.9	0	552	4	57.2	61.1	56.2	21.3
DYNA-GRO	S14EN90	E3	1.4	R	57.5			8.9	2	547	5	70.9	40.4	61.3	20.9
LOYAL	L1320E	E3	1.3	R	57.3			9.1	0	544	6	69.2	44.4	58.3	40.4
PIONEER	P15A88X §	RRX	1.5	R	56.7			9.0	0	539	7	66.7	45.2	58.3	38.9
NK BRAND	S16-K2X	RRX	1.6	MR	55.6			8.8	0	528	8	73.8	47.3	45.7	20.9
NK BRAND	S13-E3	E3	1.3	MR	55.1			9.2	0	523	9	71.0	42.8	51.5	20.9
THUNDER	TE7013N	E3	1.3	R	55.1			9.0	0	523	10	60.0	50.8	54.4	33.6
TITAN PRO	13GL0	LLGT27	1.3	R	54.7			9.0	0	520	11	60.8	55.9	47.5	20.9
HEFTY	H16X1	RRX	1.6	R	54.5			8.7	0	518	13	73.4	48.4	41.8	38.9
TITAN PRO	15GL9	LLGT27	1.5	R	54.3			9.2	0	516	14	60.5	44.0	58.5	38.9
DAIRYLAND	DSR-1318E	E3	1.3	R	54.2			9.0	0	515	15	69.2	47.9	45.6	20.9
GENESIS	G1680GL	LLGT27	1.6	R	53.8			8.9	0	512	16	66.3	44.7	50.5	40.4
TITAN PRO	13E9	E3	1.3	R	53.6			9.0	2	509	17	61.7	48.0	51.0	38.9
STINE	12EB32 §	E3	1.2	R	53.5			8.9	0	509	18	65.8	46.4	48.4	47.7
GOLDEN HARVEST	GH1362E3	E3	1.3	R	53.4			9.0	0	507	19	63.9	47.0	49.4	38.9
CREDENZ	CZ 1660GTLL	LLGT27	1.6	MR	53.3			9.0	0	506	20	61.4	52.9	45.6	20.9
ZINESTO	Z1301G	LLGT27	1.3	R	53.1			9.2	0	504	21	64.1	53.4	41.7	20.9
HEFTY	H14X8	RRX	1.4	MR	52.6			8.9	0	499	22	61.2	42.5	54.0	38.9
GENESIS	G1340E	E3	1.3	R	52.3			9.0	0	497	23	60.1	51.9	45.0	20.9
GENESIS	G1650E	E3	1.6	R	52.3			8.9	2	497	24	56.7	43.5	56.6	34.9
APEX	AE1300	E3	1.3	R	52.1			8.9	0	495	25	55.3	46.0	54.9	10.1
GOLDEN HARVEST	GH1638X	RRX	1.6	MR	52.0			8.9	0	494	26	66.7	41.1	48.3	10.1
ANDERSON	159RXT	RRX	1.5	MR	51.5			8.7	0	489	27	60.0	43.9	50.5	37.4
LATHAM	L 1648 LLGT27	LLGT27	1.6	R	51.2			9.0	0	487	28	69.9	37.2	46.6	35.3
LG SEEDS	1550RX §	RRX	1.5	R	51.0			8.9	0	484	30	58.4	47.3	47.2	22.0
GENESIS	G1450E	E3	1.4	R	51.0			9.1	0	484	29	58.9	49.1	44.9	34.7
GOLDEN HARVEST	GH1557E3	E3	1.5	R	49.2			9.2	0	467	31	59.2	42.3	46.1	22.5
STINE	19EA32 CK	E3	1.9	R	54.5			9.5	0	518	12	59.9	50.0	53.7	28.2

Not in summary - high weed pressure

Averages =	52.4	na	na	9.0	0	498		61.1	46.4	49.5	29.7
LSD (0.10) =	6.3	na	na	ns	ns			9.4	6.4	6.9	10.0
LSD (0.25) =	3.3	na	na	ns	ns			4.9	3.4	3.6	5.2

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Prev. years average yield for region: 53.3 bu/a, 17 yr(s)

Yield & Income Factors:

Base Moisture = 13.0%

Shrink = 1.3

Drying = \$0.03

Prices: GMO = \$9.50

† 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. *There were 2 reps for the site.

2020 Soybeans Top 30 Performance Summary for Minnesota Central [MNCE]

Full-Season Test

1.7 - 2.0 Day CRM

S2020MNCEb

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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	Buffalo	Clinton	Lester Prairie	Starbuck * REJECTED
NK BRAND	S20-J5X	RRX	2.0	R	59.9			8.7	0	569	2	75.2	53.7	50.8	27.8
GOLDEN HARVEST	GH2011E3 §	E3	2.0	MR	58.8			9.7	0	559	3	68.3	53.7	54.4	27.7
FEDERAL	F2090N	RRX	2.0	R	57.9			9.3	0	550	4	68.0	51.2	54.6	18.4
TITAN PRO	20E9	E3	2.0	R	57.8			9.3	0	549	5	73.4	55.5	44.5	34.7
APEX	AE1910	E3	1.9	R	56.1			9.4	4	532	6	65.2	49.8	53.2	4.1
NK BRAND	S20-E3	E3	2.0	MR	55.7			9.6	0	529	7	64.9	50.9	51.2	3.5
LATHAM	L 1858 R2	RR2Y	1.8	R	55.6			8.8	0	528	8	63.4	52.8	50.5	4.1
GOLDEN HARVEST	GH2041X	RRX	2.0	R	55.4			8.7	0	527	9	62.6	50.6	53.0	3.6
LG SEEDS	1834RX GC	RRX	1.8	R	55.0			8.9	0	522	10	69.6	51.9	43.3	3.5
THUNDER	SB8818N	RRX	1.8	R	54.9			9.1	0	522	11	66.7	55.8	42.2	3.2
ASGROW	AG17X8 §	RRX	1.7	R	54.8			8.5	0	521	12	65.2	56.5	42.7	3.3
PIONEER	P18A98X §	RRX	1.8	R	54.8			9.1	0	520	13	66.6	54.5	43.2	3.4
LATHAM	L 2084 R2	RR2Y	2.0	R	54.5			9.6	0	518	14	70.5	51.0	42.1	3.8
ASGROW	AG20X9 §	RRX	2.0	R	54.4			9.0	0	517	15	68.2	55.9	39.2	2.8
FEDERAL	F1709N GC	LLGT27	1.7	R	53.9			9.2	0	512	16	63.5	52.4	45.8	2.2
LATHAM	L 1769 R2X	RRX	1.7	R	53.8			8.8	0	511	17	63.4	53.2	44.9	2.1
THUNDER	TE7119N	E3	1.9	R	53.8			9.6	2	511	18	65.2	54.6	41.6	2.0
HEFTY	H18X1	RRX	1.8	R	53.8			9.0	1	511	19	68.0	55.6	37.9	2.1
FEDERAL	F2001N	E3	2.0	R	53.7			9.8	1	510	20	59.9	46.5	54.6	2.3
LATHAM	L 1948 R2X	RRX	1.9	R	53.6			9.2	0	509	21	72.0	49.8	39.0	1.4
CREDENZ	CZ 2040GTLL	LLGT27	2.0	R	53.2			9.0	0	506	22	59.1	49.3	51.4	2.2
HEFTY	H17X9	RRX	1.7	MR	53.1			8.7	0	504	23	70.8	44.0	44.4	1.3
GOLDEN HARVEST	GH1915X	RRX	1.9	R	53.0			8.8	0	503	24	70.2	49.7	39.1	3.5
FEDERAL	F1909N	LLGT27	1.8	R	52.6			8.9	0	500	25	69.5	48.3	40.0	1.3
CREDENZ	CZ 1859GTLL	LLGT27	1.8	R	52.2			8.7	0	495	26	67.4	47.5	41.5	2.6
DYNA-GRO	S17EN80	E3	1.7	R	52.1			9.4	0	495	27	58.0	49.8	48.5	2.5
GENESIS	G1950E	E3	1.9	R	52.1			9.6	0	495	28	58.4	48.9	48.9	26.9
APEX	AE1710	E3	1.7	R	51.9			9.0	0	493	29	52.3	52.2	51.3	16.9
ASGROW	AG19X0 §	RRX	1.9	R	51.7			9.3	0	491	30	62.2	53.4	39.5	36.3
ZINESTO	Z1701G	LLGT27	1.7	R	51.2			8.8	0	486	31	56.4	49.5	47.7	26.6
STINE	19EA32 CK	E3	1.9	R	61.8			9.3	0	587	1	78.0	57.2	50.2	33.8

Not in summary - high weed pressure

Averages =	52.6	na	na	9.2	1	500		63.1	49.8	44.8	29.3
LSD (0.10) =	5.4	na	na	0.6	2			8.9	5.2	6.1	8.3
LSD (0.25) =	2.8	na	na	0.3	1			4.7	2.7	3.2	4.3

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Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.03 Prices: GMO = \$9.50

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2020 Soybeans - Minnesota Central [MNCE]

Early-Season Test Products (42 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
ANDERSON	159RXT	RRX	MR	1.5	Untreated
APEX	AE1300	E3	R	1.3	CMBV,SA
APEX	AE1410	E3	R	1.4	CMBV,SA
CREDENZ	CZ 1660GTLL	LLGT27	MR	1.6	PV,IL,OB
DAIRYLAND	DSR-1318E	E3	R	1.3	Lum,Lu,IL
DAIRYLAND	DSR-1673E	E3	R	1.6	Lum,Lu,IL
DYNA-GRO	S14EN90	E3	R	1.4	EQV,SA
GENESIS	G1340E	E3	R	1.3	CMBV,SA
GENESIS	G1450E	E3	R	1.4	CMBV,SA
GENESIS	G1650E	E3	R	1.6	CMBV,SA
GENESIS	G1680GL	LLGT27	R	1.6	EcTC
GOLD COUNTRY	1360X	RRX	R	1.3	ACi,IL
GOLD COUNTRY	1609X GC	RRX	R	1.6	ACi,IL
GOLDEN HARVEST	GH1362E3	E3	R	1.3	CMBV,SA
GOLDEN HARVEST	GH1557E3	E3	R	1.5	CMBV,SA
GOLDEN HARVEST	GH1638X	RRX	MR	1.6	CMBV,SA
HEFTY	H14X8	RRX	MR	1.4	HCS
HEFTY	H16X1	RRX	R	1.6	HCS
LATHAM	L 1648 LLGT27	LLGT27	R	1.6	SS+
LG SEEDS	1550RX §	RRX	R	1.5	NA
LOYAL	L1320E	E3	R	1.3	CMBV,SA
LOYAL	L1430E	E3	R	1.4	CMBV,SA
NK BRAND	S13-E3	E3	MR	1.3	CMBV,SA
NK BRAND	S14-U9X §	RRX	MR	1.4	CMBV,SA
NK BRAND	S16-K2X	RRX	MR	1.6	CMBV,SA
PIONEER	P15A88X §	RRX	R	1.5	NA
PROSEED	EL91-33	E3	R	1.3	NA
RENK	RS149NX	RRX	R	1.4	EcTC
RENK	RS150NX	RRX	R	1.5	EcTC
STINE	12EB32 §	E3	R	1.2	NA
STINE	13EA12 §	E3	R	1.3	NA
STINE	14EB26 §	E3	R	1.4	NA
STINE	19EA32 CK	E3	R	1.9	NA
THUNDER	SB8015N	RRX	R	1.5	NA
THUNDER	TE7013N	E3	R	1.3	NA
TITAN PRO	13E9	E3	R	1.3	SA,A,R,G

Company/Brand	Brand/Product	Technology	RM	SCN	Seed Treat.
TITAN PRO	13GL0	LLGT27	R	1.3	SA,A,R,G
TITAN PRO	15E0	E3	R	1.5	SA,A,R,G
TITAN PRO	15GL9	LLGT27	R	1.5	SA,A,R,G
ZINESTO	Z1301G	LLGT27	R	1.3	NA
ZINESTO	Z1400E	E3	R	1.4	NA
ZINESTO	Z1601E	E3	R	1.6	NA

2020 Soybeans - Minnesota Central [MNCE]

Full-Season Test Products (48 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
ANDERSON	179RXT	RRX	MR	1.7	Untreated
APEX	AE1710	E3	R	1.7	CMBV,SA
APEX	AE1910	E3	R	1.9	CMBV,SA
ASGROW	AG17X8 §	RRX	R	1.7	NA
ASGROW	AG19X0 §	RRX	R	1.9	NA
ASGROW	AG20X9 §	RRX	R	2.0	NA
CREDENZ	CZ 1859GTLL	LLGT27	R	1.8	PV,IL,OB
CREDENZ	CZ 2040GTLL	LLGT27	R	2.0	PV,IL,OB
DAIRYLAND	DSR-2030E	E3	R	1.9	Lum,Lu,IL
DYNA-GRO	S17EN80	E3	R	1.7	EQV,SA
DYNA-GRO	S17XT29	RRX	R	1.7	EQV,SA
DYNA-GRO	S19XT30	RRX	R	1.9	EQV,SA
FEDERAL	F1709N GC	LLGT27	R	1.7	Untreated
FEDERAL	F1901N	E3	R	1.9	Untreated
FEDERAL	F1909N	LLGT27	R	1.8	Untreated
FEDERAL	F2001N	E3	R	2.0	Untreated
FEDERAL	F2090N	RRX	R	2.0	Untreated
GENESIS	G1950E	E3	R	1.9	CMBV,SA
GOLDEN HARVEST	GH1915X	RRX	R	1.9	CMBV,SA
GOLDEN HARVEST	GH2011E3 §	E3	MR	2.0	CMBV,SA
GOLDEN HARVEST	GH2041X	RRX	R	2.0	CMBV,SA
HEFTY	H17X9	RRX	MR	1.7	HCS
HEFTY	H18X1	RRX	R	1.8	HCS
LATHAM	L 1758 E3	E3	R	1.7	SS+
LATHAM	L 1769 R2X	RRX	R	1.7	SS+
LATHAM	L 1858 R2	RR2Y	R	1.8	SS+
LATHAM	L 1948 R2X	RRX	R	1.9	SS+
LATHAM	L 1995 E3	E3	R	1.9	SS+
LATHAM	L 2049 E3	E3	R	2.0	SS+
LATHAM	L 2084 R2	RR2Y	R	2.0	SS
LG SEEDS	1834RX GC	RRX	R	1.8	NA
LOYAL	L1930E	E3	R	1.9	CMBV,SA
NK BRAND	S19-2E3 §	E3	R	1.9	CMBV,SA
NK BRAND	S20-E3	E3	MR	2.0	CMBV,SA
NK BRAND	S20-J5X	RRX	R	2.0	CMBV,SA
PIONEER	P18A98X §	RRX	R	1.8	NA

Company/Brand	Brand/Product	Technology	RM	SCN	Seed Treat.
PIONEER	P20T64E GC	E3	R	1.9	NA
STINE	19EA32 CK	E3	R	1.9	NA
THUNDER	SB8818N	RRX	R	1.8	NA
THUNDER	TE7117N	E3	R	1.7	NA
THUNDER	TE7119N	E3	R	1.9	NA
TITAN PRO	17E0	E3	R	1.7	SA,A,R,G
TITAN PRO	18E9	E3	R	1.8	SA,A,R,G
TITAN PRO	19E0	E3	R	1.9	SA,A,R,G
TITAN PRO	20E9	E3	R	2.0	SA,A,R,G
ZINESTO	Z1701G	LLGT27	R	1.7	NA
ZINESTO	Z1801E	E3	R	1.8	NA
ZINESTO	Z2001E	E3	R	2.0	NA

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
LLGT27	LibertyLink® GT27®
RR2Y	Roundup Ready 2 Yield®
RRX	Roundup Ready 2 Xtend®

Soybeans Seed Treatments**

NA	Not Available
ACi,IL	Acceleron Standard Insecticide-Fungicide, ILeVO
CMBV,SA	Cruisermaxx, Vibrance, Saltro
EcTC	Eclipse US Total Coverage Trio IM, N-Force
EQV,SA	Equity VIP, Saltro
HCS	Hefty Complete Soybeans
Lum,Lu,IL	Lumigen, Lumisena™, ILeVO
PV,IL,OB	Poncho®/Votivo®, ILeVO, Obvius Plus
SA,A,R,G	Saltro, Allegiance FL, Redigo 480, Gaucho 600
SS	SoyShield
SS+	SoyShield Plus
Untreated	No seed treatment

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