

2020 Soybeans Top 30 Performance Summary for Minnesota South Central [MNSC]

Early-Season Test

1.5 - 1.8 Day CRM

S2020MNSCa

Top 30 of 48

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	Cannon Falls	Madison Lake	Nerstrand REJECTED	Wabasso
HEFTY	H18X1	RRX	1.8	R	79.7			8.9	0	757	1	71.8	81.6	50.6	85.6
PIONEER	P15A88X §	RRX	1.5	R	79.1			9.1	0	751	2	72.2	81.6	49.2	83.4
GOLD COUNTRY	1609X	RRX	1.6	R	78.3			9.3	0	743	4	71.2	83.8	53.9	79.8
GENESIS	G1680GL GC	LLGT27	1.6	R	78.1			9.1	0	742	5	74.3	80.5	55.9	79.4
LATHAM	L 1858 R2	RR2Y	1.8	R	77.4			9.2	0	735	6	73.5	78.6	59.1	80.1
HEFTY	H18X8	RRX	1.8	MR	77.3			9.0	0	735	7	75.7	74.4	56.4	81.9
CREDENZ	CZ 1660GTLL	LLGT27	1.6	MR	76.7			9.0	0	729	8	71.9	75.4	53.0	82.8
TITAN PRO	15GL9	LLGT27	1.5	R	76.3			9.0	0	725	9	72.1	79.0	55.0	77.9
LOYAL	L1430E	E3	1.4	R	75.9			9.1	0	721	10	71.6	78.1	55.0	77.9
GENESIS	G1750E	E3	1.7	R	75.7			8.8	0	719	11	73.8	75.0	55.0	78.2
HEFTY	H16X1	RRX	1.6	R	75.6			9.1	0	718	12	67.1	79.5	55.0	80.3
RENK	RS181NX	RRX	1.8	R	75.4			9.1	0	716	13	68.0	78.5	47.6	79.5
DYNA-GRO	S17EN80	E3	1.7	R	75.3			10.1	0	715	14	68.0	75.0	47.6	82.8
GENESIS	G1650E	E3	1.6	R	74.9			8.6	0	712	15	74.5	74.5	47.6	75.8
NK BRAND	S14-U9X	RRX	1.4	MR	74.9			8.9	0	712	16	68.6	76.4	37.6	79.7
LATHAM	L 1758 E3	E3	1.7	R	74.8			9.2	0	710	17	69.4	75.4	54.8	79.5
APEX	AE1710	E3	1.7	R	74.6			8.9	0	709	18	70.2	74.1	55.0	79.5
ASGROW	AG17X8 §	RRX	1.7	R	74.5			9.0	0	708	19	68.8	77.4	47.6	77.3
RENK	RS150NX	RRX	1.5	R	74.1			8.9	0	704	20	71.9	74.6	47.6	75.8
LATHAM	L 1648 LLGT27	LLGT27	1.6	R	73.7			9.1	0	700	21	72.3	75.7	55.0	73.0
TITAN PRO	18E9	E3	1.8	R	73.5			10.0	0	699	22	66.0	74.6	47.6	80.0
DYNA-GRO	S17XT29	RRX	1.7	R	73.5			9.0	0	698	23	65.8	76.0	37.6	78.7
PIONEER	P18A98X §	RRX	1.8	R	73.3			8.8	0	696	24	68.1	79.2	55.0	72.6
GENESIS	G1450E	E3	1.4	R	73.2			9.0	0	696	25	65.7	75.4	37.6	78.6
STINE	16EC32 §	E3	1.6	R	73.2			8.6	0	695	26	65.2	75.1	51.7	79.4
FEDERAL	F1709N	LLGT27	1.7	R	73.2			9.0	0	695	27	70.4	76.7	52.2	72.4
ANDERSON	180RXT	RRX	1.8	MR	73.1			8.9	0	695	28	66.2	72.0	47.9	81.2
ZINESTO	Z1601E	E3	1.6	R	72.9			8.6	0	693	29	67.2	76.8	52.4	74.7
ZINESTO	Z1701G	LLGT27	1.7	R	72.8			8.9	0	692	30	63.5	77.6	49.7	77.4
GOLDEN HARVEST	GH1763E3	E3	1.7	MR	72.5			10.0	0	689	31	62.0	74.8	45.7	80.7
ASGROW	AG21X9 CK	RRX	2.1	R	78.4			9.3	1	745	3	72.5	78.6	55.6	84.2

Excluded due to hail damage

Mark Querna

Averages =	72.5	na	na	9.1	0	689	67.3	74.5	48.2	75.9
LSD (0.10) =	3.6	na	na	ns	ns		4.2	4.1	2.5	4.3
LSD (0.25) =	1.9	na	na	ns	ns		2.2	2.2	1.3	2.2

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Prev. years average yield for region: 55.6 bu/a, 18 yr(s)

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.4 Drying = \$0.04 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 South Central [MNSC]

Full-Season Test

1.9 - 2.2 Day CRM

S2020MNSCb

Top 30 of 48

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	Cannon Falls	Madison Lake	Nerstrand REJECTED	Wabasso
STINE	19EC32 §	E3	1.9	R	77.5			8.7	0	737	1	74.6	75.6	63.6	82.4
ZINESTO	Z2101G	LLGT27	2.1	R	77.4			9.1	0	735	2	75.2	76.9	63.2	80.0
ASGROW	AG20X9 §	RRX	2.0	R	77.1			8.8	0	732	3	76.0	75.3	61.4	80.0
PIONEER	P21A28X §	RRX	2.1	R	76.8			9.1	0	729	4	71.8	73.8	68.4	84.7
APEX	AE2110	E3	2.1	R	76.6			9.0	0	728	5	75.9	72.1	68.2	81.8
LATHAM	L 2228 R2	RR2Y	2.2	R	76.3			9.2	0	725	6	76.6	72.5	60.9	79.8
GENESIS	G2150E	E3	2.1	R	76.3			9.1	0	725	7	76.6	69.3	68.7	83.0
LOYAL	L2130E	E3	2.1	R	75.9			9.2	0	721	8	72.2	71.4	68.6	84.1
VIKING	2155N	CONV	2.1	MR	75.2			10.9	0	714	9	76.0	75.8	77.1	73.8
ZINESTO	Z2001E	E3	2.0	R	74.8			9.1	0	710	10	69.7	73.3	68.5	81.4
GENESIS	G2190GL	LLGT27	2.1	R	74.7			9.2	0	709	11	74.6	71.1	68.6	78.3
TITAN PRO	20E9	E3	2.0	R	74.6			9.5	0	709	12	72.6	71.0	68.6	80.2
ASGROW	AG19X0 §	RRX	1.9	R	74.6			9.5	0	709	13	70.3	75.7	68.7	77.8
APEX	AE1910	E3	1.9	R	74.4			8.7	0	707	14	72.9	71.1	68.7	79.4
GOLDEN HARVEST	GH2011E3	E3	2.0	MR	74.2			9.3	0	705	15	72.1	70.9	68.7	79.7
GOLD COUNTRY	2249X	RRX	2.2	R	74.1			10.3	0	704	16	71.2	69.4	68.4	81.8
LOYAL	L1930E	E3	1.9	R	73.9			8.9	0	702	17	73.3	73.7	58.1	74.8
LATHAM	L 2184 R2X	RRX	2.1	R	73.4			8.9	0	697	18	71.5	72.0	68.8	76.6
GOLDEN HARVEST	GH1915X	RRX	1.9	R	73.3			8.5	0	696	19	69.0	75.1	68.8	75.8
ANDERSON	217RXT	RRX	2.0	MR	73.3			8.9	0	696	20	70.1	71.7	68.8	78.1
NK BRAND	S21-W8X §	RRX	2.1	R	73.2			8.5	0	695	21	68.5	72.4	68.8	78.6
FEDERAL	F2001N	E3	2.0	R	73.1			9.1	0	695	22	70.9	70.4	68.8	78.0
DYNA-GRO	S19EN21	E3	1.9	R	73.1			8.9	0	694	23	72.1	69.2	68.8	78.0
GENESIS	G1950E	E3	1.9	R	73.1			8.8	0	694	24	68.3	74.5	68.8	76.4
LEGEND	19E152N GC	E3	1.9	NA	73.0			9.5	0	694	25	68.4	70.5	68.9	80.1
ZINESTO	Z2101E	E3	2.1	R	73.0			9.3	0	693	26	70.1	68.4	69.0	80.4
ZINESTO	Z1900E	E3	1.9	R	72.7			9.5	0	691	27	70.3	69.5	57.9	78.3
NK BRAND	S20-J5X §	RRX	2.0	R	72.7			8.5	0	691	28	66.3	72.8	59.9	78.9
DAIRYLAND	DSR-2112E	E3	2.1	R	72.3			11.0	0	687	29	67.1	73.8	73.1	76.1
LATHAM	L 2084 R2	RR2Y	2.0	R	72.0			9.0	0	684	30	70.4	71.1	56.1	74.5
ASGROW	AG21X9 CK	RRX	2.1	R	72.0			9.0	0	683	31	67.1	72.6	61.7	76.1
					Averages =	72.4	na	na	9.2	0	687	69.8	70.2	62.6	77.1
					LSD (0.10) =	2.9	na	na	0.4	0		3.5	3.1	3.2	4.1
					LSD (0.25) =	1.5	na	na	0.2	0		1.8	1.6	1.7	2.2

Mark Querna

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Prev. years average yield for region: 55.6 bu/a, 18 yr(s)

Yield & Income Factors:

Base Moisture = 13.0%

Shrink = 1.4

Drying = \$0.04

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 - Minnesota South Central [MNSC]

Early-Season Test Products (48 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
ANDERSON	159RXT	RRX	MR	1.5	Untreated
ANDERSON	179RXT	RRX	MR	1.7	Untreated
ANDERSON	180RXT	RRX	MR	1.8	Untreated
ANDERSON	A180E3	E3	NA	1.8	Untreated
APEX	AE1710	E3	R	1.7	CMBV,SA
ASGROW	AG17X8 §	RRX	R	1.7	ACi,IL
ASGROW	AG21X9 CK	RRX	R	2.1	Treated
CREDENZ	CZ 1660GTLL	LLGT27	MR	1.6	PV,IL,OB
CREDENZ	CZ 1859GTLL	LLGT27	R	1.8	PV,IL,OB
DAIRYLAND	DSR-1673E	E3	R	1.6	Lum,Lu,IL
DYNA-GRO	S17EN80	E3	R	1.7	EQV,SA
DYNA-GRO	S17XT29	RRX	R	1.7	EQV,SA
FEDERAL	F1601N	E3	NA	1.6	Untreated
FEDERAL	F1709N	LLGT27	R	1.7	Untreated
GENESIS	G1450E	E3	R	1.4	CMBV,SA
GENESIS	G1650E	E3	R	1.6	CMBV,SA
GENESIS	G1680GL GC	LLGT27	R	1.6	EcTC
GENESIS	G1750E	E3	R	1.7	CMBV,SA
GOLD COUNTRY	1609X	RRX	R	1.6	ACi,IL
GOLDEN HARVEST	GH1638X §	RRX	MR	1.6	CMBV,SA
GOLDEN HARVEST	GH1763E3	E3	MR	1.7	CMBV,SA
HCI	HC-02 GC	CONV	NA	0.2	Untreated
HEFTY	H16X1	RRX	R	1.6	HCS
HEFTY	H17X9	RRX	MR	1.7	HCS
HEFTY	H18X1	RRX	R	1.8	HCS
HEFTY	H18X8	RRX	MR	1.8	HCS
LATHAM	L 1648 LLGT27	LLGT27	R	1.6	SS+
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+
LOYAL	L1430E	E3	R	1.4	CMBV,SA
NK BRAND	S04-K9 GC	CONV	R	0.4	ViM,NO
NK BRAND	S14-U9X	RRX	MR	1.4	CMBV,SA
NK BRAND	S16-K2X	RRX	MR	1.6	CMBV,SA
NK BRAND	S18-R6 GC	CONV	R	1.8	Untreated
PIONEER	P15A88X §	RRX	R	1.5	Lum,Lu

Company/Brand	Brand/Product	Technology	RM	SCN	Seed Treat.
PIONEER	P18A98X §	RRX	R	1.8	Lum,Lu
PROSEEDS	SKYLINE GC	CONV	R	1.1	Untreated
RENK	RS150NX	RRX	R	1.5	EcTC
RENK	RS181NX	RRX	R	1.8	EcTC
STINE	16EC32 §	E3	R	1.6	VFI,SA
TITAN PRO	15E0	E3	R	1.5	SA,A,R,G
TITAN PRO	15GL9	LLGT27	R	1.5	SA,A,R,G
TITAN PRO	17E0	E3	R	1.7	SA,A,R,G
TITAN PRO	18E9	E3	R	1.8	SA,A,R,G
VIKING	1518N	CONV	MR	1.5	Untreated
ZINESTO	Z1601E	E3	R	1.6	DST
ZINESTO	Z1701G	LLGT27	R	1.7	DST

2020 Soybeans - Minnesota South Central [MNSC]

Full-Season Test Products (48 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
ANDERSON	217RXT	RRX	MR	2.0	Untreated
ANDERSON	A200E3	E3	NA	2.0	Untreated
APEX	AE1910	E3	R	1.9	CMBV,SA
APEX	AE2110	E3	R	2.1	CMBV,SA
ASGROW	AG19X0 §	RRX	R	1.9	ACi
ASGROW	AG20X9 §	RRX	R	2.0	ACi
ASGROW	AG21X9 CK	RRX	R	2.1	Treated
CREDENZ	CZ 2040GTLL	LLGT27	R	2.0	PV,IL,OB
CREDENZ	CZ 2360GTLL	LLGT27	MR	2.3	PV,IL,OB
DAIRYLAND	DSR-2030E	E3	R	1.9	Lum,Lu,IL
DAIRYLAND	DSR-2112E	E3	R	2.1	Lum,Lu,IL
DAIRYLAND	DSR-2259E	E3	R	2.2	Lum,Lu,IL
DAIRYLAND	E20-101E	E3	R	2.2	Lum,Lu,IL
DYNA-GRO	S19EN21	E3	R	1.9	EQV,SA
DYNA-GRO	S19XT30	RRX	R	1.9	EQV,SA
DYNA-GRO	S21XT49	RRX	R	2.1	EQV,SA
FEDERAL	F1901N	E3	R	1.9	Untreated
FEDERAL	F2001N	E3	R	2.0	Untreated
FEDERAL	F2201N	E3	R	2.2	Untreated
GENESIS	G1950E	E3	R	1.9	CMBV,SA
GENESIS	G2150E	E3	R	2.1	CMBV,SA
GENESIS	G2190GL	LLGT27	R	2.1	EcTC,SA
GOLD COUNTRY	2249X	RRX	R	2.2	ACi,IL
GOLDEN HARVEST	GH1915X	RRX	R	1.9	CMBV,SA
GOLDEN HARVEST	GH2011E3	E3	MR	2.0	CMBV,SA
LATHAM	L 2084 R2	RR2Y	R	2.0	SS
LATHAM	L 2184 R2X	RRX	R	2.1	SS+
LATHAM	L 2193 E3	E3	R	2.1	SS+
LATHAM	L 2228 R2	RR2Y	R	2.2	SS+
LEGEND	19E152N GC	E3	NA	1.9	YPP
LOYAL	L1930E	E3	R	1.9	CMBV,SA
LOYAL	L2130E	E3	R	2.1	CMBV,SA
NK BRAND	S20-J5X §	RRX	R	2.0	CMBV,SA
NK BRAND	S21-W8X §	RRX	R	2.1	CMBV,SA
PIONEER	P21A28X §	RRX	R	2.1	Lum,Lu
STINE	19EA32 §	E3	R	1.9	VFI,SA

Company/Brand	Brand/Product	Technology	RM	SCN	Seed Treat.
STINE	19EC32 §	E3	R	1.9	VFI,SA
TITAN PRO	19E0	E3	R	1.9	SA,A,R,G
TITAN PRO	20E9	E3	R	2.0	SA,A,R,G
TITAN PRO	21E0	E3	R	2.1	SA,A,R,G
TITAN PRO	22E8	E3	R	2.2	SA,A,R,G
VIKING	1940KN	CONV	R	1.9	AM
VIKING	2018N	CONV	MR	2.0	CMBV
VIKING	2155N	CONV	MR	2.1	CMBV
ZINESTO	Z1900E	E3	R	1.9	DST
ZINESTO	Z2001E	E3	R	2.0	DST
ZINESTO	Z2101E	E3	R	2.1	DST
ZINESTO	Z2101G	LLGT27	R	2.1	DST

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*

CONV	Conventional
E3	Enlist™ E3
LLGT27	LibertyLink® GT27®
RR2Y	Roundup Ready 2 Yield®
RRX	Roundup Ready 2 Xtend®

Soybeans Seed Treatments**

NA	Not Available
ACi	Acceleron® Standard Insecticide-Fungicide
ACi,IL	Acceleron Standard Insecticide-Fungicide, ILeVO
AM	ApronMaxx
CMBV	CruiserMaxx Beans, Vibrance
CMBV,SA	Cruisermaxx, Vibrance, Saltro
DST	Dominance 2 ST
EcTC	Eclipse US Total Coverage Trio IM, N-Force
EcTC,SA	Eclipse US Total Coverage Trio IM, N-Force, Saltro
EQV,SA	Equity VIP, Saltro
HCS	Hefty Complete Soybeans
Lum,Lu	Lumigen, Lumisena™
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
Treated	Treated, unspecified
Untreated	No seed treatment
VFI,SA	Virile Fungicide+Insecticide, Saltro (BCS Consulting)
VIM,NO	Vibrance Maxx, Nodulator Pro
YPP	YP Pro, QuickRoots

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