

Test by: NewVenture, LLC Ellendale, MN

2020 Soybeans Top 30 Harvest Report

Minnesota Central [MNCE] CLINTON, MN

Doug Nelson, Big Stone County, MN 56225

Early-Season Test	1.3 - 1.6 Day CRM S2020MNCE04a
Top 30 of 42	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Force, Surestart, Callisto, Roundup
SOIL DESCRIPTION:	Fram Loam, Fram-Vallers- Parnell Complex loam, mod. poorly drained, non-irrigated
SOIL CONDITION:	high P, medium K, 7.3 pH, 4.0% OM, 26.3 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Sonic, Flexstar Gt, Dual
Applied N-P-K (units):	0-0-0
SEDED - RATE - ROW:	May 15 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 7 131.1 /A

TEST COMMENTS:

This site was planted in mid-May into a very good seedbed. The Nelsons told me that they were grateful for the stored soil moisture. They also noted that the rains seemed to come "just in time". During an August site visit, it was observed that the beans were up to chest high throughout the plot.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
PROSEED	EL91-33	E3	1.3	R	62.9	8.4	0	131.3	598	1
STINE	14EB26 §	E3	1.4	R	61.1	8.2	0	129.7	580	2
ZINESTO	Z1400E	E3	1.4	R	60.6	8.5	0	131.0	576	3
TITAN PRO	13GL0	LLGT27	1.3	R	55.9	8.6	0	131.5	531	4
ZINESTO	Z1301G	LLGT27	1.3	R	53.4	8.4	0	131.3	507	5
CREDENZ	CZ 1660GTLL	LLGT27	1.6	MR	52.9	8.1	0	131.7	503	6
GENESIS	G1340E	E3	1.3	R	51.9	8.4	1	131.3	493	7
GOLD COUNTRY	1609X GC	RRX	1.6	R	50.9	8.3	0	129.7	484	8
THUNDER	TE7013N	E3	1.3	R	50.8	8.6	0	131.0	483	9
GENESIS	G1450E	E3	1.4	R	49.1	8.3	0	131.0	466	11
HEFTY	H16X1	RRX	1.6	R	48.4	8.3	0	131.3	460	12
APEX	AE1410	E3	1.4	R	48.4	8.3	0	130.7	460	13
TITAN PRO	13E9	E3	1.3	R	48.0	8.3	0	131.7	456	14
DAIRYLAND	DSR-1318E	E3	1.3	R	47.9	8.3	0	130.3	455	15
NK BRAND	S16-K2X	RRX	1.6	MR	47.3	8.3	0	130.7	449	16
LG SEEDS	1550RX §	RRX	1.5	R	47.3	8.5	0	130.7	449	17
GOLDEN HARVEST	GH1362E3	E3	1.3	R	47.0	8.5	0	131.0	446	18
STINE	13EA12 §	E3	1.3	R	46.6	8.3	0	131.3	443	19
STINE	12EB32 §	E3	1.2	R	46.4	8.3	0	131.0	441	20
APEX	AE1300	E3	1.3	R	46.0	8.4	0	131.3	437	21
NK BRAND	S14-U9X §	RRX	1.4	MR	45.9	8.3	0	131.3	436	22
PIONEER	P15A88X §	RRX	1.5	R	45.2	8.4	0	132.0	429	23
GENESIS	G1680GL	LLGT27	1.6	R	44.7	8.1	0	131.3	425	24
ZINESTO	Z1601E	E3	1.6	R	44.5	8.4	0	129.7	423	25
LOYAL	L1320E	E3	1.3	R	44.4	8.5	0	131.7	422	26
LOYAL	L1430E	E3	1.4	R	44.4	8.2	0	131.3	422	27
TITAN PRO	15GL9	LLGT27	1.5	R	44.0	8.5	0	132.3	418	28
ANDERSON	159RXT	RRX	1.5	MR	43.9	8.4	0	130.3	417	29
GENESIS	G1650E	E3	1.6	R	43.5	8.3	0	132.0	413	30
RENK	RS149NX	RRX	1.4	R	42.8	8.3	0	132.0	407	31
STINE	19EA32 CK	E3	1.9	R	50.0	8.1	0	131.7	475	10

Averages = **46.4** **8.4** **0** **131.1** **442**

LSD (0.10) = 6.4 ns ns

LSD (0.25) = 3.4 ns ns

Ed Dahle

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C.V. = 13.1

Historic yield: 53.6 bu/a, 13 yr(s)

Yield & Income Factors:

Base Moisture = 13.0%

Shrink = 1.3

Drying = \$0.025

Prices: GMO = \$9.50

Test by: NewVenture, LLC Ellendale, MN

2020 Soybeans Top 30 Harvest Report

Minnesota Central [MNCE] CLINTON, MN

Doug Nelson, Big Stone County, MN 56225

Full-Season Test	1.7 - 2.0 Day CRM S2020MNCE04b
Top 30 of 48	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Force, Surestart, Callisto, Roundup
SOIL DESCRIPTION:	Fram Loam, Fram-Vallers- Parnell Complex loam, mod. poorly drained, non-irrigated
SOIL CONDITION:	high P, medium K, 7.3 pH, 4.0% OM, 26.3 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Sonic, Flexstar Gt, Dual
Applied N-P-K (units):	0-0-0
SEDED - RATE - ROW:	May 15 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 7 131.2 /A

TEST COMMENTS:

This site was planted in mid-May into a very good seedbed. The Nelsons told me that they were grateful for the stored soil moisture. They also noted that the rains seemed to come "just in time". During an August site visit, it was observed that the beans were up to chest high throughout the plot.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
ASGROW	AG17X8 §	RRX	1.7	R	56.5	8.2	0	132.3	537	2
ZINESTO	Z1801E	E3	1.8	R	56.1	8.3	0	131.7	533	3
ASGROW	AG20X9 §	RRX	2.0	R	55.9	8.2	0	131.3	531	4
THUNDER	SB8818N	RRX	1.8	R	55.8	8.5	0	133.0	530	5
HEFTY	H18X1	RRX	1.8	R	55.6	8.4	0	131.0	527	6
TITAN PRO	20E9	E3	2.0	R	55.5	8.2	0	131.0	527	7
THUNDER	TE7119N	E3	1.9	R	54.6	8.5	3	132.0	519	8
PIONEER	P18A98X §	RRX	1.8	R	54.5	8.2	0	131.5	518	9
NK BRAND	S20-J5X	RRX	2.0	R	53.7	8.2	1	131.3	510	10
GOLDEN HARVEST	GH2011E3 §	E3	2.0	MR	53.7	8.3	0	131.7	510	11
ASGROW	AG19X0 §	RRX	1.9	R	53.4	8.3	0	131.0	507	12
LATHAM	L 1769 R2X	RRX	1.7	R	53.2	8.5	0	132.0	504	13
NK BRAND	S19-2E3 §	E3	1.9	R	52.9	8.4	12	130.0	503	14
LATHAM	L 1858 R2	RR2Y	1.8	R	52.8	8.1	0	131.0	502	15
FEDERAL	F1709N GC	LLGT27	1.7	R	52.4	8.4	0	130.3	498	16
APEX	AE1710	E3	1.7	R	52.2	8.2	0	132.3	496	17
LG SEEDS	1834RX GC	RRX	1.8	R	51.9	8.2	1	132.3	493	18
FEDERAL	F2090N	RRX	2.0	R	51.2	8.3	0	130.0	486	19
LATHAM	L 2084 R2	RR2Y	2.0	R	51.0	8.2	1	132.0	484	20
NK BRAND	S20-E3	E3	2.0	MR	50.9	8.4	0	131.5	484	21
GOLDEN HARVEST	GH2041X	RRX	2.0	R	50.6	8.1	1	130.7	481	22
FEDERAL	F1901N	E3	1.9	R	50.4	8.3	6	129.3	479	23
DYNA-GRO	S17XT29	RRX	1.7	R	50.2	8.4	0	131.3	477	24
TITAN PRO	17E0	E3	1.7	R	50.1	8.3	0	132.7	476	25
DYNA-GRO	S17EN80	E3	1.7	R	49.8	8.5	0	130.3	473	26
APEX	AE1910	E3	1.9	R	49.8	8.3	12	132.0	473	27
LATHAM	L 1948 R2X	RRX	1.9	R	49.8	8.4	0	130.3	473	28
GOLDEN HARVEST	GH1915X	RRX	1.9	R	49.7	8.1	0	131.0	472	29
ZINESTO	Z1701G	LLGT27	1.7	R	49.5	8.5	0	130.7	470	30
CREDENZ	CZ 2040GTLL	LLGT27	2.0	R	49.3	8.3	0	130.3	468	31
STINE	19EA32 CK	E3	1.9	R	57.2	8.4	0	131.3	543	1
					Averages =	49.8	8.3	2	131.2	473
					LSD (0.10) =	5.2	ns	4		
					LSD (0.25) =	2.7	ns	2		
					C.V. =	9.9				
Ed Dahle					Historic yield: 53.6 bu/a, 13 yr(s)					
ed.dahle@firstseedtests.com, (507) 456-6624										

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$9.50

Report Date: 10/08/2020

† 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

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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.