

Test by: MNS Seed Testing, LLC New Richland, MN

2021 Soybeans Top 30 Harvest Report

South Dakota East Central [SDEC] SALEM, SD
Ernie Christensen, McCook County, SD 57048

All-Season Test	1.6 - 2.3 Day CRM S2021SDEC08
Top 30 of 81	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Harness, Callisto, Round- Up
SOIL DESCRIPTION:	Hand-Bonilla loam, well drained, non-irrigated
SOIL CONDITION:	very high P, very high K, 7.1 pH, 3.8% OM, 21.7 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Round-Up, Authority First
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 4 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 5 112.7 /A

TEST COMMENTS:

There was a perfect seedbed at planting that led to good emergence this spring. The pre-emerge herbicide worked well and with one pass of roundup, we had good weed control. The drought conditions caused some variable yields as plots dried up at uneven rates. This plot was positioned on the higher side of a gradual slope. In this area, we saw some soybean plants that had dropped beans before harvest, bean heights were under 30 inches, and some had discolored stalks. A lot of variable yields in the surrounding area with soil type and spotty rains making a big difference.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Latham	L 2295 R2X ↗	RRX	2.2	R	63.3	12.0	1	113.3	760	1
Asgrow	AG21XF0 § ↗	RXF	2.1	R	61.8	11.9	1	115.0	742	2
Hefty	H20XF2 ↗	RXF	2.0	NA	60.3	12.0	1	110.0	724	3
Zinesto	Z2302SE ↗	E3,ST	2.3	NA	60.0	12.1	1	114.7	720	4
Innotech	IS1761E3 ↗	E3	1.7	MR	59.3	12.6	1	109.7	712	5
Loyal	L2040E ↗	E3	2.0	R	58.2	11.3	2	115.0	698	6
Hefty	H16XF2 ↗	RXF	1.6	NA	58.1	12.0	1	108.0	697	7
Xitavo	XO 1971E ↗	E3	1.9	R	58.0	11.8	1	119.3	696	8
Genesis	G2060E ↗	E3	2.0	R	57.9	11.9	2	110.7	695	9
Credenz	CZ 2121GTLL ↗	LLGT27	2.1	MR	57.8	12.0	1	117.0	694	10
Stine	20EE23 § ↗	E3	2.0	R	57.3	12.0	1	108.7	688	11
Xitavo	XO 1632E ↗	E3	1.6	R	57.3	12.7	1	113.7	688	12
Dairyland	DSR-2040E ↗	E3	2.0	R	56.0	11.7	1	114.7	672	13
Thunder	TX8220N ↗	RXF	2.0	R	55.9	12.0	1	112.7	671	14
Zinesto	Z2002E ↗	E3	2.0	NA	55.3	11.9	1	117.0	664	15
Dyna-Gro	S21XF72 ↗	RXF	2.1	R	54.9	12.3	1	116.3	659	16
Asgrow	AG18XF1 § ↗	RXF	1.8	R	54.9	11.9	1	113.0	659	17
Dairyland	DSR-1820E ↗	E3	1.8	R	54.3	11.2	1	114.0	652	18
Xitavo	XO 2181E ↗	E3	2.1	R	54.3	11.7	1	114.3	652	19
Thunder	TE7221N ↗	E3	2.1	R	54.1	11.2	2	109.0	649	20
Credenz	CZ 2360GTLL ↗	LLGT27	2.3	MR	53.7	12.3	1	113.0	644	21
Latham	L 2193 E3 ↗	E3	2.1	R	53.2	12.1	1	116.3	638	22
Latham	L 2049 E3 ↗	E3	2.0	R	53.1	11.8	1	106.3	637	23
Asgrow	AG22XF2 § ↗	RXF	2.2	R	52.6	12.3	1	114.3	631	24
NK Brand	NK21-H4XF § ↗	RXF	2.1	MR	52.4	12.3	1	117.7	629	25
Dairyland	DSR-2112E ↗	E3	2.1	R	52.4	12.4	1	116.7	629	26
Hefty	H16X1 ↗	RRX	1.6	R	52.0	12.2	1	107.3	624	27
Hefty	H18XF2 ↗	RXF	1.8	NA	52.0	13.0	1	110.0	624	28
Xitavo	XO 2282E ↗	E3	2.2	R	51.9	11.9	1	113.7	623	29
Apex	AE1720 ↗	E3	1.7	R	51.8	11.9	1	111.7	622	30

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Averages = **49.3** **11.9** **1** **112.7** **591**

LSD (0.10) = 9.3 0.5 ns

LSD (0.25) = 4.9 0.2 ns

C.V. = 17.9

Historic yield: 53.76 bu/a, 12 yr(s)

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.0 Drying = \$0.035 Prices: GMO = \$12.00

Report Date: 10/07/2021

† 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. ↗ New! Links to full product yield results at www.firstseedtests.com

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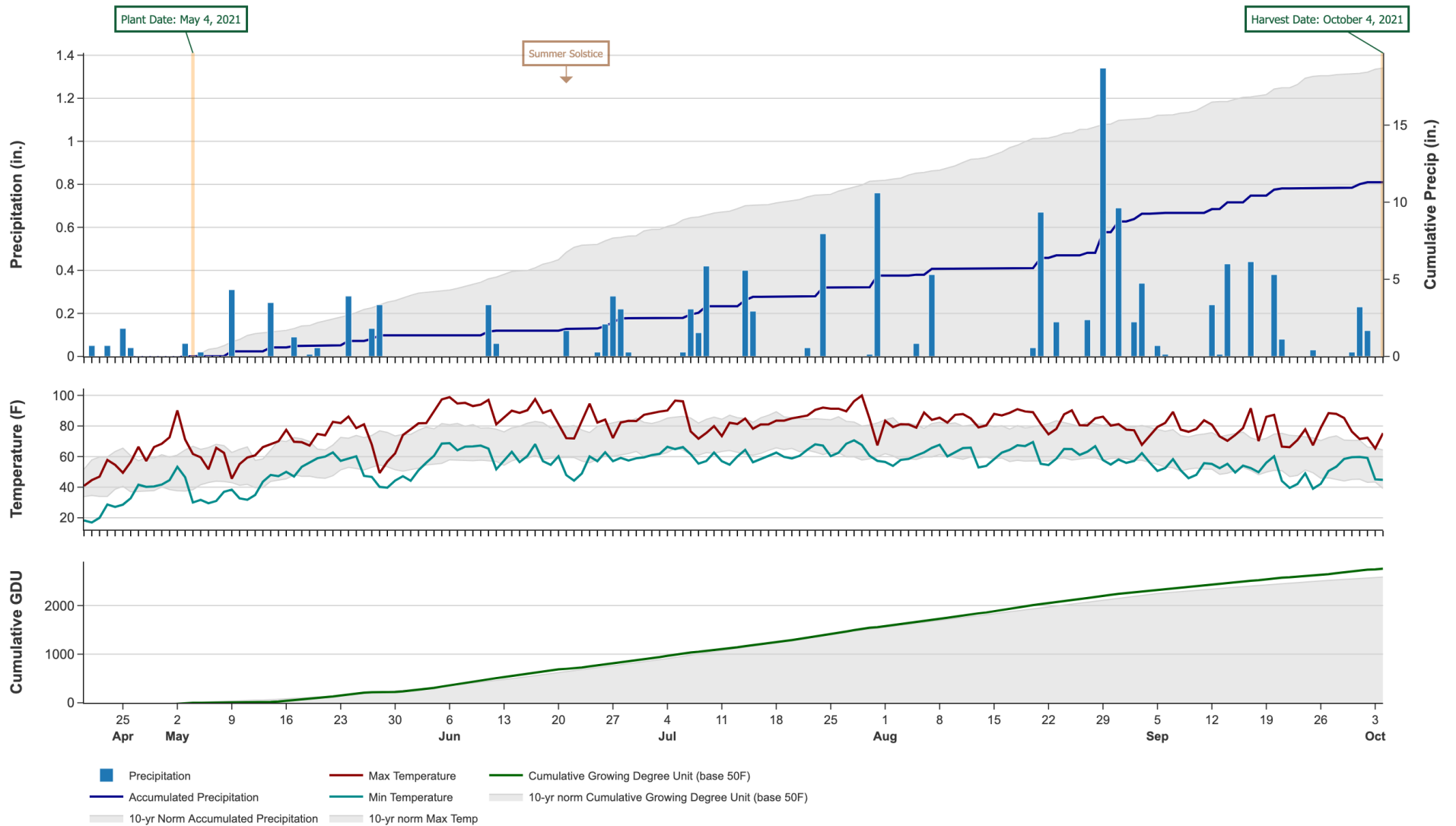
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2021 Soybeans - South Dakota East Central [SDEC]

Weather Conditions Summary at SALEM, SD

Weather Data Retrieved: 10/07/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	0.3 1.1 (-0.8)	1.4 4.3 (-2.9)	1.1 4.0 (-2.9)	2.8 3.6 (-0.8)	3.5 3.9 (-0.4)	2.2 3.0 (-0.8)	0.3 0.4 (-0.1)	11.6 20.2 (-8.6)
GDU Normal (Diff)	26 19 (+6)	276 270 (+5)	635 565 (+69)	688 718 (-30)	683 615 (+67)	466 396 (+69)	52 33 (+18)	2826 2620 (+205)



* 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 (81 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Apex	AE1720	E3	R	1.7	CMBV,SA
Apex	AE1920	E3	R	1.9	CMBV,SA
Apex	AE1930	E3	R	1.9	CMBV,SA
Apex	AE2020	E3	R	2.0	CMBV,SA
Apex	AE2220	E3	R	2.2	CMBV,SA
Asgrow	AG18XF1 §	RXF	R	1.8	Untreated
Asgrow	AG21XF0 §	RXF	R	2.1	ACi,IL
Asgrow	AG22XF2 §	RXF	R	2.2	ACi,IL
Credenz	CZ 1660GTLL	LLGT27	MR	1.6	PV,IL,OB
Credenz	CZ 1859GTLL	LLGT27	R	1.8	PV,IL,OB
Credenz	CZ 2121GTLL	LLGT27	MR	2.1	PV,IL,OB
Credenz	CZ 2360GTLL	LLGT27	MR	2.3	PV,IL,OB
Dairyland	DSR-1820E	E3	R	1.8	Lum,IL
Dairyland	DSR-2030E	E3	R	1.9	Lum,IL
Dairyland	DSR-2040E	E3	R	2.0	Lum,IL
Dairyland	DSR-2112E	E3	R	2.1	Lum,IL
Dairyland	DSR-2222E	E3	R	2.2	Lum,IL
Dyna-Gro	S18EN52	E3	MR	1.8	EQV,SA
Dyna-Gro	S21XF72	RXF	R	2.1	EQV,SA
Genesis	G1760E	E3	R	1.7	CMBV,SA
Genesis	G1960E	E3	R	1.9	CMBV,SA
Genesis	G1970E	E3	R	1.9	CMBV,SA
Genesis	G2060E	E3	R	2.0	CMBV,SA
Genesis	G2260E	E3	R	2.2	CMBV,SA
Golden Harvest	GH1762XF	RXF	MR	1.7	CMBV,SA
Golden Harvest	GH1802E3 §	E3	R	1.8	CMBV,SA
Golden Harvest	GH2011E3	E3	MR	2.0	CMBV,SA
Golden Harvest	GH2102XF	RXF	MR	2.1	CMBV,SA
Hefty	H16X1	RRX	R	1.6	DST4,SA
Hefty	H16XF2	RXF	NA	1.6	DST5
Hefty	H17XF1	RXF	NA	1.7	DST4,SA
Hefty	H18XF2	RXF	NA	1.8	DST4,SA
Hefty	H20XF1	RXF	NA	2.0	DST4,SA
Hefty	H20XF2	RXF	NA	2.0	DST4,SA
Hefty	H21XF2	RXF	NA	2.1	DST4,SA
Hefty	H23XF1	RXF	NA	2.3	DST4,SA

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Innotech	IS1761E3	E3	MR	1.7	Fortify
Innotech	IS1929E3	E3	R	1.9	Fortify
Innotech	IS2089E3	E3	MR	2.0	Fortify
Innotech	IS2342E3	E3	MR	2.3	Fortify
Latham	L 1784 XF	RXF	R	1.7	SS+,SA
Latham	L 1995 E3	E3	R	1.9	SS+,SA
Latham	L 2049 E3	E3	R	2.0	SS+,SA
Latham	L 2184 R2X	RRX	R	2.1	SS+,SA
Latham	L 2193 E3	E3	R	2.1	SS+,SA
Latham	L 2283 XF	RXF	R	2.2	SS+,SA
Latham	L 2295 R2X	RRX	R	2.2	SS+,SA
Latham	L 2379 E3	E3	R	2.3	SS+,SA
Loyal	L1740E	E3	R	1.7	CMBV,SA
Loyal	L1940E	E3	R	1.9	CMBV,SA
Loyal	L1950E	E3	R	1.9	CMBV,SA
Loyal	L2040E	E3	R	2.0	CMBV,SA
Loyal	L2240E	E3	R	2.2	CMBV,SA
NK Brand	NK18-J7E3	E3	MR	1.8	CMBV,SA
NK Brand	NK19-C8XF	RXF	R	1.9	CMBV,SA
NK Brand	NK19-Y5E3 §	E3	R	1.9	CMBV,SA
NK Brand	NK21-H4XF §	RXF	MR	2.1	CMBV,SA
Pioneer	P21A28X §	RRX	R	2.1	Lum,Lu
REA	R1532XF	RXF	NA	1.5	ACi,IL
REA	R2140XF	RXF	NA	2.1	ACi,IL

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Stine	17EE32 §	E3	R	1.7	SFI
Stine	20EE23 §	E3	R	2.0	SFI
Stine	21EE62 §	E3	R	2.1	SFI
Thunder	TE7218N	E3	R	1.8	AM
Thunder	TE7221N	E3	R	2.1	AM
Thunder	TX8117N	RXF	R	1.7	AM
Thunder	TX8220N	RXF	R	2.0	AM
Xitavo	XO 1632E	E3	R	1.6	PV,IL,OB
Xitavo	XO 1761E	E3	R	1.7	PV,IL,OB
Xitavo	XO 1822E	E3	R	1.8	PV,IL,OB
Xitavo	XO 1971E	E3	R	1.9	PV,IL,OB
Xitavo	XO 2181E	E3	R	2.1	PV,IL,OB
Xitavo	XO 2282E	E3	R	2.2	PV,IL,OB
Zinesto	Z1601E	E3	R	1.6	DST4,SA
Zinesto	Z1702E	E3	NA	1.7	DST4,SA
Zinesto	Z1801E	E3	R	1.8	DST4,SA
Zinesto	Z1802E	E3	NA	1.8	DST4,SA
Zinesto	Z1902E	E3	NA	1.9	DST5
Zinesto	Z2002E	E3	NA	2.0	DST4,SA
Zinesto	Z2202E	E3	NA	2.2	DST4,SA
Zinesto	Z2302SE	E3,ST	NA	2.3	DST4,SA

* FIRST does not inspect products for refuge blend. N* indicates the product was entered without a refuge component by the sponsoring seed company. Prior year entries may contain refuge blend.

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®
RRX	Roundup Ready 2 Xtend®
RXF	Roundup Ready 2 XtendFlex®
ST	Sulfonylurea tolerant

Soybeans Seed Treatments*

NA	Not Available
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
AM	ApronMaxx
CMBV,SA	Cruisermass® Beans, Vibrance®, Saltro®
DST4,SA	Dominance 4 ST,Saltro®
DST5	Dominance 5 ST
EQV,SA	Equity VIP, Saltro®
Fortify	Insecticide-Fungicide (Rob-See-Co)
Lum,IL	LumiGEN™ plus ILeVO
Lum,Lu	LumiGEN™, Lumisena™
PV,IL,OB	Poncho®/Votivo®, ILeVO, Obvius Plus
SFI	Stine XP F&I
SS+,SA	SoyShield Plus, Saltro®
Untreated	No seed treatment

* Seed treatments may include unspecified plant health promoting components.