

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

2021 Soybeans Top 30 Harvest Report

South Dakota Southeast [SDSE] SALEM, SD
Ernie Christensen, McCook County, SD 57048

All-Season Test	2.1 - 2.8 Day CRM S2021SDSE01
Top 30 of 63	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, 7.0 pH, 4.0% OM, 19.4 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 5 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 5 116.3 /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
NK Brand	NK21-H4XF § ↗	RXF	2.1	MR	80.3	10.9	1	117.5	964	1
Stine	21EE62 § ↗	E3	2.1	R	78.5	11.2	1	117.0	942	2
Credenz	CZ 2121GTLL ↗	LLGT27	2.1	MR	77.6	10.8	1	118.0	931	3
Credenz	CZ 2760GTLL ↗	LLGT27	2.7	R	76.6	11.1	1	117.0	919	4
Hoegemeyer	2141 E ↗	E3	2.1	R	75.6	11.1	1	116.3	907	5
Xitavo	XO 2832E ↗	E3	2.8	R	74.8	11.1	1	122.0	898	6
Xitavo	XO 2501E ↗	E3	2.5	R	72.0	10.9	2	117.0	864	7
Hefty	H25X0 ↗	RRX	2.5	R	71.3	10.9	1	118.7	856	8
Latham	L 2549 R2X ↗	RRX	2.5	R	71.1	11.3	1	116.0	853	9
Innotech	IS2545E3 ↗	E3	2.5	R	71.0	11.3	2	116.7	852	10
Hefty	H25XF1 ↗	RXF	2.5	NA	70.7	11.7	1	117.0	848	11
Hoegemeyer	2660 E ↗	E3	2.6	R	70.4	11.1	2	116.7	845	12
Hefty	H26XF2 ↗	RXF	2.6	NA	70.2	11.4	1	116.0	842	13
Latham	L 2894 E3 ↗	E3	2.8	R	70.1	11.0	1	115.0	841	14
Golden Harvest	GH2562XF § ↗	RXF	2.5	R	68.8	10.7	1	116.0	826	15
NK Brand	NK25-C9XF ↗	RXF	2.5	MR	68.8	10.7	1	112.3	826	16
Asgrow	AG26XF1 § ↗	RXF	2.6	R	68.0	11.6	1	119.3	816	17
Hefty	H28X8 ↗	RRX	2.8	R	67.7	11.2	5	116.3	812	18
Zinesto	Z2401E ↗	E3	2.4	R	67.7	11.1	2	116.0	812	19
Credenz	CZ 2360GTLL ↗	LLGT27	2.3	MR	67.3	11.5	1	113.3	808	20
Zinesto	Z2101E ↗	E3	2.1	R	67.1	10.7	1	110.0	805	21
Credenz	CZ 2550GTLL ↗	LLGT27	2.5	MR	66.9	11.1	3	109.3	803	22
Dyna-Gro	S27EN89 ↗	E3	2.7	R	66.4	11.2	1	112.7	797	23
Zinesto	Z2300E ↗	E3	2.3	R	66.3	10.8	4	111.0	796	24
Hoegemeyer	2421 E ↗	E3	2.4	R	66.0	11.4	1	115.7	792	25
Zinesto	Z2302SE ↗	E3,ST	2.3	NA	65.9	10.7	2	120.0	791	26
Apex	AE2420S ↗	E3,ST	2.4	R	65.8	11.4	1	117.7	790	27
Asgrow	AG21XF0 § ↗	RXF	2.1	R	65.3	11.2	1	118.7	784	28
Asgrow	AG27XF2 § ↗	RXF	2.7	R	65.0	10.8	1	120.0	780	29
Pioneer	P23A15X § ↗	RRX	2.3	R	64.9	11.5	1	118.0	779	30

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Averages = **64.3** **11.2** **1** **116.3** **771**

LSD (0.10) = 9.5 0.4 ns

LSD (0.25) = 5.0 0.2 ns

C.V. = 14.1

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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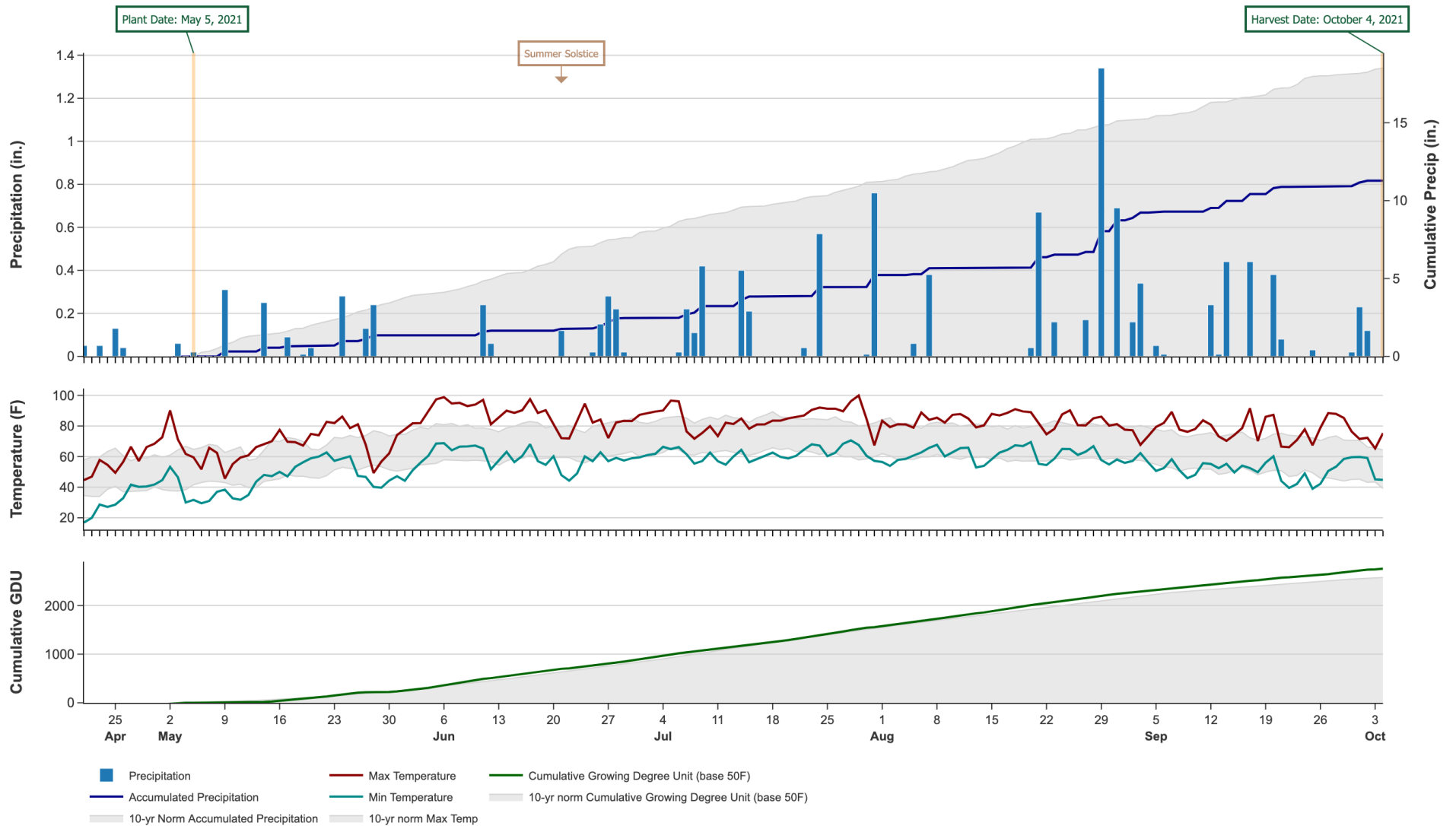
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2021 Soybeans - South Dakota Southeast [SDSE]

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 0.9 (-0.7)	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 20.1 (-8.5)
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 (63 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Apex	AE2220	E3	R	2.2	CMBV,SA
Apex	AE2420S	E3,ST	R	2.4	CMBV,SA
Asgrow	AG21XF0 §	RXF	R	2.1	ACi,IL
Asgrow	AG26XF1 §	RXF	R	2.6	ACi,IL
Asgrow	AG27XF2 §	RXF	R	2.7	ACi,IL
Credenz	CZ 2121GTLL	LLGT27	MR	2.1	PV,IL,OB
Credenz	CZ 2360GTLL	LLGT27	MR	2.3	PV,IL,OB
Credenz	CZ 2550GTLL	LLGT27	MR	2.5	PV,IL,OB
Credenz	CZ 2760GTLL	LLGT27	R	2.7	PV,IL,OB
Dyna-Gro	S24XF12	RXF	R	2.4	EQV,SA
Dyna-Gro	S25EN41	E3	R	2.5	EQV,SA
Dyna-Gro	S27EN89	E3	R	2.7	EQV,SA
Genesis	G2260E	E3	R	2.2	CMBV,SA
Genesis	G2460ES	E3,ST	R	2.4	CMBV,SA
Golden Harvest	GH2292E3 §	E3	MR	2.2	CMBV,SA
Golden Harvest	GH2562XF §	RXF	R	2.5	CMBV,SA
Golden Harvest	GH2722XF	RXF	MR	2.7	CMBV,SA
Golden Harvest	GH2818E3	E3	MR	2.8	CMBV,SA
Hefty	H21XF2	RXF	NA	2.1	DST4,SA
Hefty	H23XF1	RXF	NA	2.3	DST4,SA
Hefty	H24XF2	RXF	NA	2.4	DST4,SA
Hefty	H25X0	RRX	R	2.5	DST4,SA
Hefty	H25XF1	RXF	NA	2.5	DST4,SA
Hefty	H26XF2	RXF	NA	2.6	DST4,SA
Hefty	H28X8	RRX	R	2.8	DST4,SA
Hoegemeyer	2141 E	E3	R	2.1	Lum,Lu,IL
Hoegemeyer	2421 E	E3	R	2.4	Lum,Lu,IL
Hoegemeyer	2660 E	E3	R	2.6	Lum,Lu,IL
Innotech	IS2342E3	E3	MR	2.3	Fortify
Innotech	IS2545E3	E3	R	2.5	Fortify
Innotech	IS2748E3	E3	MR	2.7	Fortify
Latham	L 2458 E3	E3	R	2.4	SS+,SA
Latham	L 2494 XF	RXF	R	2.4	SS+,SA
Latham	L 2549 R2X	RRX	R	2.5	SS+,SA
Latham	L 2638 E3	E3	R	2.6	SS+,SA
Latham	L 2786 XF	RXF	R	2.7	SS+,SA

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Latham	L 2839 LLGT27	LLGT27	R	2.8	SS+,SA
Latham	L 2887 R2X	RRX	R	2.8	SS+,SA
Latham	L 2894 E3	E3	R	2.8	SS+,SA
Loyal	L2240E	E3	R	2.2	CMBV,SA
Loyal	L2440ES	E3,ST	R	2.4	CMBV,SA
NK Brand	NK21-H4XF §	RXF	MR	2.1	CMBV,SA
NK Brand	NK22-C4E3	E3	R	2.2	CMBV,SA
NK Brand	NK24-G7E3	E3	R	2.4	CMBV,SA
NK Brand	NK25-C9XF	RXF	MR	2.5	CMBV,SA
Pioneer	P23A15X §	RRX	R	2.3	Lum,Lu
REA	R2140XF	RXF	NA	2.1	ACi,IL
REA	R2651XF	RXF	R	2.6	ACi,IL
Stine	21EE62 §	E3	R	2.1	SFI
Stine	24EE32 §	E3	R	2.4	SFI
Stine	25EB32 §	E3	R	2.5	SFI
Xitavo	XO 2181E	E3	R	2.1	PV,IL,OB
Xitavo	XO 2282E	E3	R	2.2	PV,IL,OB
Xitavo	XO 2472E	E3	R	2.4	PV,IL,OB
Xitavo	XO 2501E	E3	R	2.5	PV,IL,OB
Xitavo	XO 2832E	E3	R	2.8	PV,IL,OB
Zinesto	Z2101E	E3	R	2.1	DST4,SA
Zinesto	Z2101G	LLGT27	R	2.1	DST4,SA
Zinesto	Z2202E	E3	NA	2.2	DST4,SA
Zinesto	Z2300E	E3	R	2.3	DST4,SA
Zinesto	Z2302SE	E3,ST	NA	2.3	DST4,SA
Zinesto	Z2401E	E3	R	2.4	DST4,SA
Zinesto	Z2700E	E3	R	2.7	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
CMBV,SA	Cruisemaxx® Beans, Vibrance®, Saltro®
DST4,SA	Dominance 4 ST,Saltro®
EQV,SA	Equity VIP, Saltro®
Fortify	Insecticide-Fungicide (Rob-See-Co)
Lum,Lu	LumiGEN™, Lumisena™
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
PV,IL,OB	Poncho®/Votivo®, ILeVO, Obvius Plus
SFI	Stine XP F&I
SS+,SA	SoyShield Plus, Saltro®

* Seed treatments may include unspecified plant health promoting components.