

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

2021 Soybeans Top 30 Harvest Report

South Dakota Southeast [SDSE] BERESFORD, SD
Jason Frick, Clay County, SD 57004

All-Season Test	2.1 - 2.8 Day CRM S2021SDSE02
Top 30 of 63	For Gross Income (Sorted by Yield) Average of (2) Replications
PREV. CROP/HERB:	Corn / NA
SOIL DESCRIPTION:	Egan-Ethan-Tetonka sandy clay loam, well drained, non-irrigated
SOIL CONDITION:	low P, very high K, 7.0 pH, 4.3% OM, 21.4 CEC
TILLAGE/CULTIVATION:	Minimum W/O Fall Till
PEST MANAGEMENT:	Cobra, Round-Up
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 16 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 9 113.4 /A

TEST COMMENTS:

A pre-emerge herbicide was not used and by the end of June, some weed pressure was evident. A post-emergence spray included Cobra and we had only sparse weeds for harvest. The drought in the area coupled with some burned leaves from herbicide application stressed the beans and brought down yield potential. This site had dicamba drift from neighboring fields in June, but the post-emerge spray seemed to have a bigger effect. One replicate was removed due to higher variation. There was no significant difference between yield in dicamba-tolerant and non-tolerant varieties.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Zinesto	Z2401E ↗	E3	2.4	R	60.8	13.8	1	112.5	728	1
Golden Harvest	GH2562XF § ↗	RXF	2.5	R	54.6	13.5	1	115.5	653	2
Hefty	H28X8 ↗	RRX	2.8	R	52.9	13.3	1	118.0	634	3
Latham	L 2638 E3 ↗	E3	2.6	R	52.1	14.0	1	116.0	623	4
Latham	L 2839 LLGT27 ↗	LLGT27	2.8	R	49.7	14.5	1	116.5	593	5
Apex	AE2420S ↗	E3,ST	2.4	R	48.6	14.3	1	110.5	581	6
Latham	L 2786 XF ↗	RXF	2.7	R	48.3	14.8	1	118.0	577	7
Hefty	H23XF1 ↗	RXF	2.3	NA	45.9	14.5	1	115.0	548	8
Asgrow	AG26XF1 § ↗	RXF	2.6	R	45.8	14.5	1	115.5	547	9
Hoegemeyer	2660 E ↗	E3	2.6	R	45.5	13.8	1	118.0	545	10
Latham	L 2887 R2X ↗	RRX	2.8	R	45.2	13.0	3	115.0	541	11
Golden Harvest	GH2292E3 § ↗	E3	2.2	MR	45.1	13.6	1	117.5	539	12
Latham	L 2549 R2X ↗	RRX	2.5	R	44.5	13.1	1	113.5	534	13
Innotech	IS2545E3 ↗	E3	2.5	R	44.4	14.2	1	119.0	531	14
Dyna-Gro	S25EN41 ↗	E3	2.5	R	43.5	13.4	1	112.5	521	15
Zinesto	Z2700E ↗	E3	2.7	R	42.9	14.2	1	114.5	513	16
Xitavo	XO 2832E ↗	E3	2.8	R	42.6	14.8	3	113.5	509	17
Dyna-Gro	S27EN89 ↗	E3	2.7	R	42.5	14.0	1	113.0	509	18
Xitavo	XO 2501E ↗	E3	2.5	R	42.0	13.6	1	112.0	503	19
Loyal	L2440ES ↗	E3,ST	2.4	R	41.8	14.3	1	114.5	500	20
Hefty	H26XF2 ↗	RXF	2.6	NA	41.6	13.6	1	113.5	498	21
REA	R2140XF ↗	RXF	2.1	NA	41.5	13.4	1	113.5	497	22
Innotech	IS2748E3 ↗	E3	2.7	MR	40.9	13.4	1	115.0	490	23
Stine	25EB32 § ↗	E3	2.5	R	40.4	14.0	1	113.5	483	25
Xitavo	XO 2181E ↗	E3	2.1	R	40.4	13.7	1	112.0	484	24
NK Brand	NK22-C4E3 ↗	E3	2.2	R	39.8	13.9	1	113.5	476	26
Hoegemeyer	2141 E ↗	E3	2.1	R	39.2	13.4	1	114.0	470	27
Hefty	H25XF1 ↗	RXF	2.5	NA	39.2	14.3	1	112.0	469	28
Stine	24EE32 § ↗	E3	2.4	R	39.2	14.1	1	113.5	468	30
Hefty	H25X0 ↗	RRX	2.5	R	39.1	13.1	1	115.5	469	29

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Averages = **38.9** **13.7** **1** **113.4** **466**

LSD (0.10) = 9.7 0.7 ns

LSD (0.25) = 5.1 0.4 ns

C.V. = 19.2 Historic yield: 44.73 bu/a, 16 yr(s)

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.2 Drying = \$0.035 Prices: GMO = \$12.00

Report Date: 10/11/2021

† 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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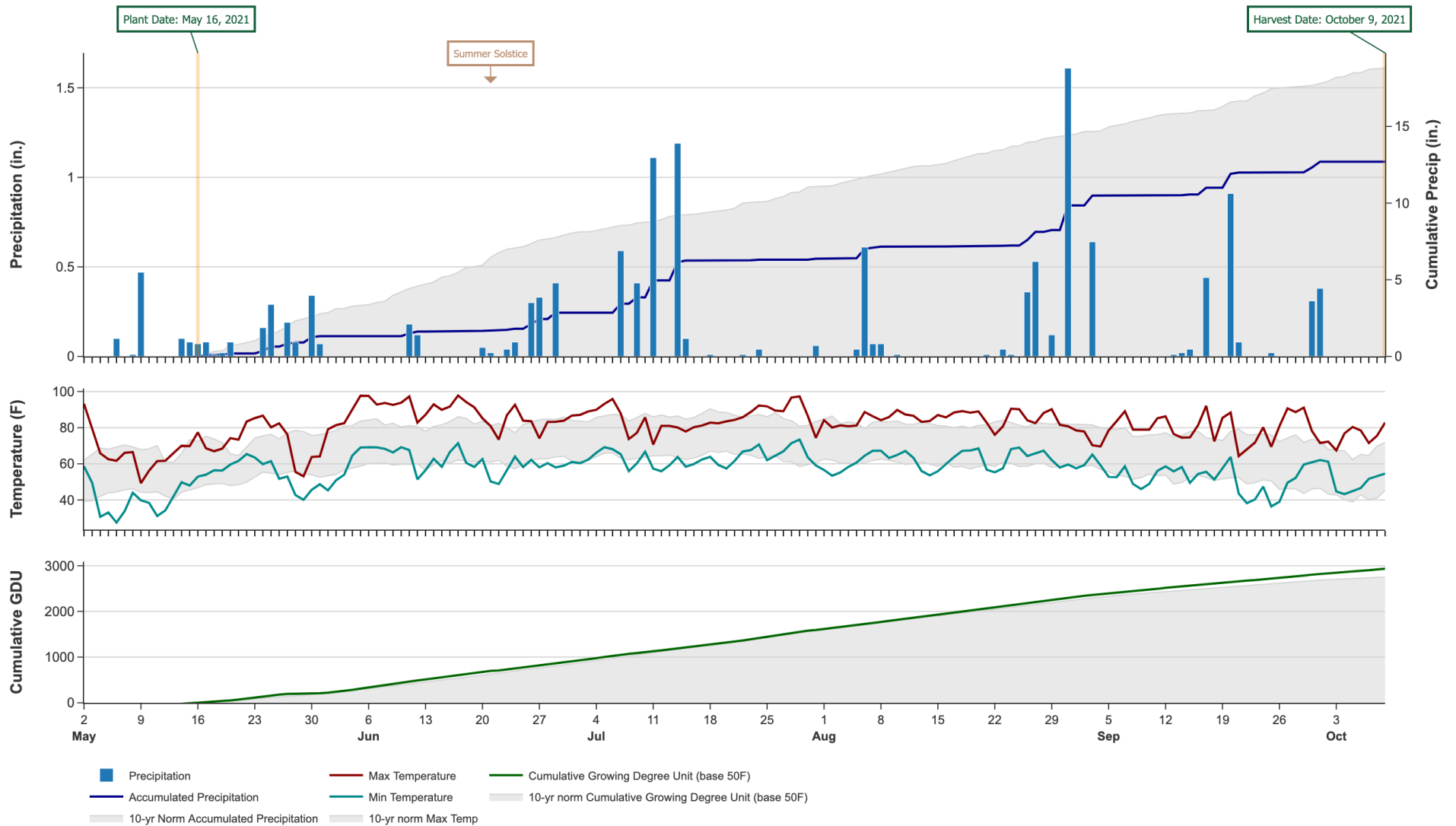
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2021 Soybeans - South Dakota Southeast [SDSE]

Weather Conditions Summary at BERESFORD, SD

Weather Data Retrieved: 10/11/2021

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	2.1 4.1 (-2.0)	1.5 5.1 (-3.6)	3.5 3.1 (+0.4)	3.5 3.4 (+0.1)	2.5 3.2 (-0.8)	0.4 1.1 (-0.7)	13.5 20.1 (-6.6)
GDU Normal (Diff)	304 328 (-24)	671 630 (+40)	716 753 (-37)	710 653 (+56)	499 440 (+58)	130 79 (+50)	3030 2886 (+143)



* 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
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

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
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.