

Test by: North Iowa F.I.R.S.T., Inc. Sanborn, IA

## 2021 Soybeans Top 30 Harvest Report

Iowa North [IANO] VENTURA, IA

Brent Renner, Cerro Gordo County, IA

<b>Early-Season Test</b>	1.7 - 2.1 Day CRM S2021IANO02a
<b>Top 30 of 54</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn / Dual, Capreno, Atrazine
<b>SOIL DESCRIPTION:</b>	Webster clay loam, moderately drained, non-irrigated
<b>SOIL CONDITION:</b>	very high P, medium K, 7.1 pH, 4.5% OM, 25.2 CEC
<b>TILLAGE/CULTIVATION:</b>	Strip-Till
<b>PEST MANAGEMENT:</b>	Warrant Ultra, Section Three, Cover-XI, Silencer
<b>Applied N-P-K (units):</b>	0-48-87
<b>SEEDED - RATE - ROW:</b>	May 17 144.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 14 121.7 /A

### TEST COMMENTS:

A short stretch of cold, wet weather kept us from planting this plot at Brent's farm until mid-May. Twelve days after planting we had another cold night that came just as plants were beginning to emerge. Differences were observed among varieties when stand counts were recorded and some appeared to handle the cold better than others. We recorded 7.7" of rainfall from Aug 20 - Sept 3 on this site, which was a break from the dry conditions in this area since mid-July. Plants were tall at harvest and seed size was excellent.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
FS HiSOY	21E00 ↗	E3	2.1	R	<b>74.9</b>	10.3	8	125.7	936	1
Genesis	G2190GL ↗	LLGT27	2.1	R	<b>72.8</b>	10.8	0	122.3	910	2
Federal	F2121N ↗	LLGT27	2.1	R	<b>72.5</b>	10.8	0	113.7	906	3
Zinesto	Z1902E ↗	E3	1.9	NA	<b>71.4</b>	10.6	0	124.0	893	4
Genesis	G1760E ↗	E3	1.7	R	<b>71.3</b>	10.9	21	127.7	891	5
FS HiSOY	21F00 ↗	RXF	2.1	R	<b>70.8</b>	10.5	0	119.0	885	6
Golden Harvest	GH2102XF § ↗	RXF	2.1	MR	<b>70.5</b>	10.3	5	121.3	881	7
NK Brand	NK21-H4XF § ↗	RXF	2.1	MR	<b>70.4</b>	10.4	8	116.0	880	8
Apex	AE2110 ↗	E3	2.1	R	<b>70.4</b>	10.5	3	110.7	880	9
Cornelius	CB20XF71 ↗	RXF	2.0	R	69.7	10.5	0	126.3	871	10
Credenz	CZ 2121GTLL ↗	LLGT27	2.1	MR	69.6	10.8	12	125.7	870	11
Zinesto	Z1702E ↗	E3	1.7	NA	69.3	11.1	12	119.3	866	12
P3 Genetics	2220E ↗	E3	2.0	R	69.3	10.6	8	126.3	866	13
NuTech	20N04E ↗	E3	2.0	R	69.0	10.4	24	125.7	862	15
Loyal	L2130E ↗	E3	2.1	R	68.3	10.5	5	122.0	854	16
Stine	21EE62 § ↗	E3	2.1	R	68.2	11.0	3	110.3	852	17
Zinesto	Z2002E ↗	E3	2.0	NA	68.2	10.6	0	124.0	852	18
Renk	RS219NX ↗	RRX	2.1	R	68.1	10.3	8	126.0	851	19
Apex	AE2020 ↗	E3	2.0	R	67.9	10.7	8	124.0	849	20
Xitavo	XO 1971E ↗	E3	1.9	R	67.6	10.4	0	122.0	845	21
NuTech	21N06E ↗	E3	2.1	R	67.6	10.4	0	118.3	845	22
Cornelius	CB21X55 ↗	RRX	2.1	R	67.5	10.4	0	117.3	844	23
Latham	L 2184 R2X ↗	RRX	2.1	R	67.4	10.4	0	117.7	843	24
Viking	2155N ↗	CONV	2.1	MR	67.3	11.4	30	123.0	841	25
Latham	L 2049 E3 ↗	E3	2.0	R	67.3	10.4	3	123.3	841	26
P3 Genetics	2218E ↗	E3	1.8	R	66.4	11.0	8	115.7	830	27
Hefty	H21XF2 ↗	RXF	2.1	NA	66.2	10.5	35	128.7	828	28
Latham	L 1784 XF ↗	RXF	1.7	R	66.0	10.8	8	122.3	825	29
FS HiSOY	19F10 ↗	RXF	1.9	R	66.0	10.7	41	125.7	825	30
Renk	RS212NXF ↗	RXF	2.1	R	65.8	10.4	0	112.7	822	31
Croplan	CP2200X CK	RRX	2.2	R	69.1	10.7	17	120.7	864	14
					Averages =	<b>66.2</b>	<b>10.7</b>	<b>8</b>	<b>121.7</b>	<b>828</b>
					LSD (0.10) =	3.9	0.3	15		
					LSD (0.25) =	2.0	0.1	8		
					C.V. =	5.5	Historic yield: new site			

*Corey Rozenboom*

Corey Rozenboom

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### Yield & Income Factors:

Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.02 Prices: GMO = \$12.50

Report Date: 10/15/2021

† 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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## 2021 Soybeans Top 30 Harvest Report

Iowa North [IANO] VENTURA, IA

Brent Renner, Cerro Gordo County, IA

<b>Full-Season Test</b>	2.2 - 2.5 Day CRM S2021IANO02b
<b>Top 30 of 48</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn / Dual, Capreno, Atrazine
<b>SOIL DESCRIPTION:</b>	Webster clay loam, moderately drained, non-irrigated
<b>SOIL CONDITION:</b>	very high P, medium K, 7.1 pH, 4.5% OM, 25.2 CEC
<b>TILLAGE/CULTIVATION:</b>	Strip-Till
<b>PEST MANAGEMENT:</b>	Warrant Ultra, Section Three, Cover-XI, Silencer
<b>Applied N-P-K (units):</b>	0-48-87
<b>SEEDED - RATE - ROW:</b>	May 17 144.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 14 125.4 /A

### TEST COMMENTS:

A short stretch of cold, wet weather kept us from planting this plot at Brent's farm until mid-May. Twelve days after planting we had another cold night that came just as plants were beginning to emerge. Differences were observed among varieties when stand counts were recorded and some appeared to handle the cold better than others. We recorded 7.7" of rainfall from Aug 20 - Sept 3 on this site, which was a break from the dry conditions in this area since mid-July. Plants were tall at harvest and seed size was excellent.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
FS HISOY	25E00 ↗	E3	2.5	R	<b>77.6</b>	10.3	0	129.3	970	1
Loyal	L2530E ↗	E3	2.5	R	<b>77.4</b>	10.4	0	127.0	968	2
P3 Genetics	2223E ↗	E3	2.3	R	<b>77.2</b>	10.4	3	127.3	965	3
Hefty	H25X0 ↗	RRX	2.5	R	<b>76.2</b>	10.2	0	120.0	952	4
Apex	AE2420S ↗	E3,ST	2.4	R	<b>75.6</b>	10.8	3	114.7	945	5
Kruger	K2294XF ↗	RXF	2.2	R	75.1	10.9	0	115.0	939	6
Genesis	G2260E ↗	E3	2.2	R	75.0	10.3	0	124.7	938	7
NuTech	24N04E ↗	E3	2.4	R	74.9	10.2	1	125.7	936	8
Zinesto	Z2302SE ↗	E3,ST	2.3	NA	74.9	10.5	0	121.3	936	9
Renk	RS248NX ↗	RRX	2.4	R	74.6	10.8	0	129.7	932	10
Xitavo	XO 2501E ↗	E3	2.5	R	74.5	10.3	0	121.0	931	11
Zinesto	Z2401E ↗	E3	2.4	R	74.4	10.3	0	129.3	930	12
Latham	L 2549 R2X ↗	RRX	2.5	R	74.4	10.0	0	127.3	930	13
Genesis	G2550E ↗	E3	2.5	R	74.3	10.3	0	131.7	929	14
FS HISOY	23E10 ↗	E3	2.3	R	73.9	10.4	0	120.0	924	15
Cornelius	CB23XF63 ↗	RXF	2.3	R	73.6	10.6	0	130.7	920	16
Viking	2418N ↗	CONV	2.4	MR	73.5	10.2	16	131.0	919	17
Hefty	H25XF1 ↗	RXF	2.5	NA	73.2	10.7	0	126.7	915	18
Kruger	K2594XF ↗	RXF	2.5	R	73.0	10.6	0	124.3	912	19
Zinesto	Z2202E ↗	E3	2.2	NA	72.9	10.1	1	134.3	911	20
Latham	L 2494 XF ↗	RXF	2.4	R	72.9	11.1	0	121.7	911	21
Kruger	K2391XF ↗	RXF	2.3	R	72.7	10.9	0	122.3	909	22
Renk	RS242NXF ↗	RXF	2.4	R	72.7	10.3	0	122.7	909	23
FS HISOY	23F10 ↗	RXF	2.3	R	72.3	10.8	0	126.3	904	24
NuTech	22N02E ↗	E3	2.2	R	72.1	10.3	16	128.3	901	25
Latham	L 2458 E3 ↗	E3	2.4	R	72.1	10.6	3	125.3	901	26
NK Brand	NK25-C9XF ↗	RXF	2.5	MR	71.6	10.2	0	118.7	895	27
NK Brand	NK22-C4E3 ↗	E3	2.2	R	71.3	10.3	0	123.0	891	29
Golden Harvest	GH2562XF § ↗	RXF	2.5	R	71.1	10.4	5	118.0	889	30
Hefty	H24XF2 ↗	RXF	2.4	NA	70.9	10.5	3	124.0	886	31
Croplan	CP2200X CK	RRX	2.2	R	71.3	10.7	0	129.7	891	28

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Averages = **71.4** **10.5** **2** **125.4** **892**

LSD (0.10) = 3.9 0.3 ns

LSD (0.25) = 2.1 0.2 ns

C.V. = 5.2

Historic yield: new site

**Yield & Income Factors:** Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.02 Prices: GMO = \$12.50

Report Date: 10/15/2021

† 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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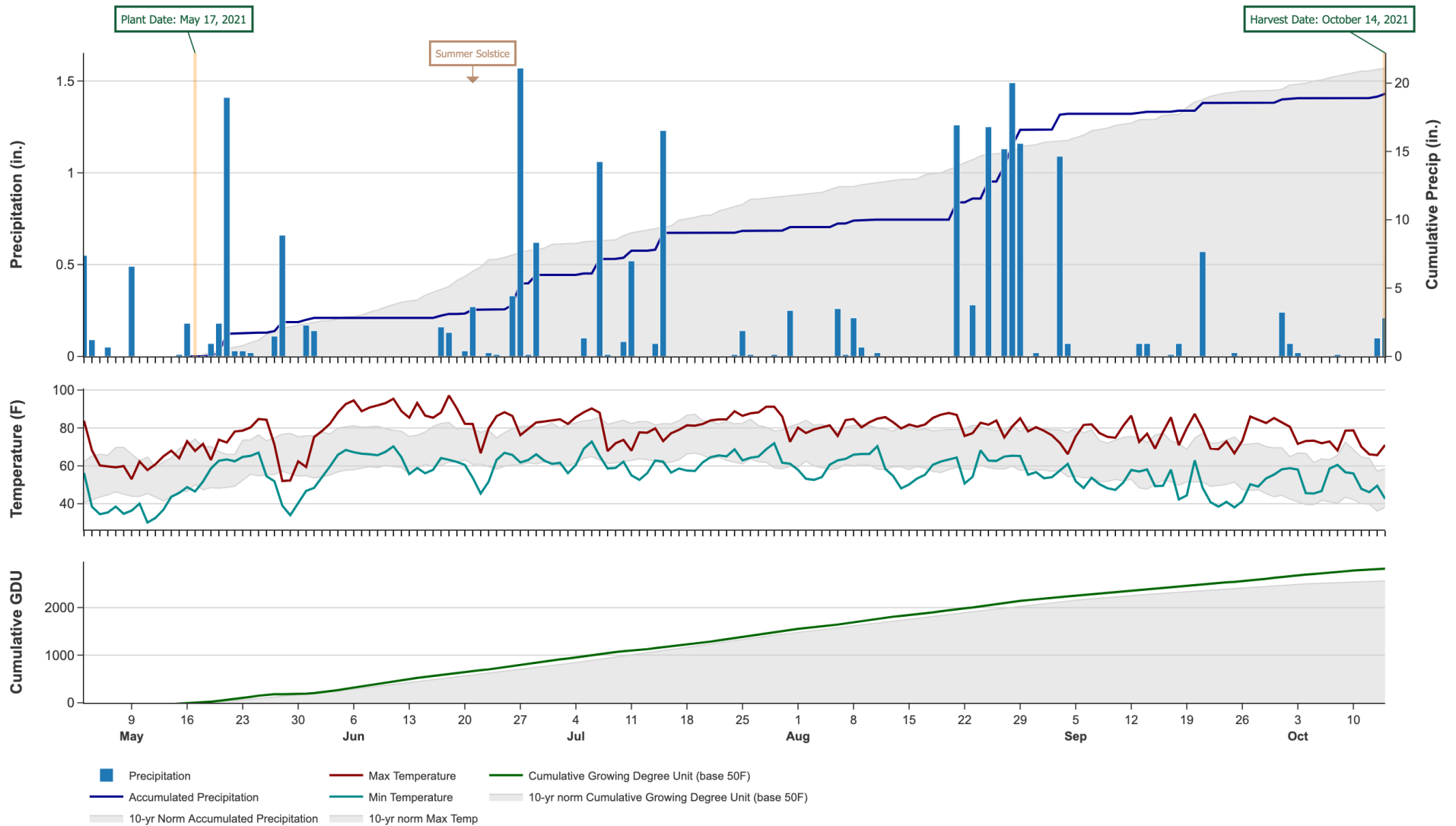
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# 2021 Soybeans - Iowa North [ IANO ]

## Weather Conditions Summary at VENTURA, IA

Weather Data Retrieved: 10/15/2021

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in)   Normal (Diff)	4.0   4.3 (-0.3)	3.3   5.5 (-2.2)	3.5   3.9 (-0.4)	7.1   3.7 (+3.4)	2.0   4.0 (-2.0)	0.7   1.6 (-1.0)	20.6   23.0 (-2.4)
GDU   Normal (Diff)	270   302 (-32)	675   578 (+96)	669   699 (-30)	640   605 (+34)	450   397 (+52)	191   95 (+95)	2895   2679 (+215)



\* 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.

## 2021 Soybeans - Iowa North [ IANO ]

### Early-Season Test Products (54 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Apex	AE1720	E3	R	1.7	CMBV,SA
Apex	AE2020	E3	R	2.0	CMBV,SA
Apex	AE2110	E3	R	2.1	CMBV,SA
Asgrow	AG18XF1 §	RXF	R	1.8	Untreated
Asgrow	AG21XF0 §	RXF	R	2.1	ACi,IL
Benson Hill	E1958	CONV	MR	1.9	Untreated
Cornelius	CB20XF71	RXF	R	2.0	PG+
Cornelius	CB21X55	RRX	R	2.1	PG+
Credenz	CZ 2121GTLL	LLGT27	MR	2.1	PV,IL,OB
Croplan	CP2200X CK	RRX	R	2.2	Untreated
Federal	F2121N	LLGT27	R	2.1	MAG
FS HiSOY	19F10	RXF	R	1.9	ACi,B-200
FS HiSOY	21E00	E3	R	2.1	ACi,B-200
FS HiSOY	21F00	RXF	R	2.1	ACi,B-200
Genesis	G1760E	E3	R	1.7	CMBV,SA
Genesis	G1960E	E3	R	1.9	CMBV,SA
Genesis	G2060E	E3	R	2.0	CMBV,SA
Genesis	G2190GL	LLGT27	R	2.1	CMBV,SA
Golden Harvest	GH1802E3	E3	R	1.8	CMBV,SA
Golden Harvest	GH2102XF §	RXF	MR	2.1	CMBV,SA
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	H21XF2	RXF	NA	2.1	DST4,SA
Kruger	K2084XF	RXF	R	2.0	ACi,IL
Latham	L 1784 XF	RXF	R	1.7	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
Loyal	L2130E	E3	R	2.1	CMBV,SA
NK Brand	NK19-C8XF	RXF	R	1.9	CMBV,SA
NK Brand	NK21-H4XF §	RXF	MR	2.1	CMBV,SA
NK Brand	S18-H3X GC	RRX	R	1.8	CMBV,SA
NK Brand	S19-2E3 GC	E3	R	1.9	Untreated
NuTech	18N02E	E3	R	1.8	Lum,Lu,IL
NuTech	20N04E	E3	R	2.0	Lum,Lu,IL
NuTech	21N06E	E3	R	2.1	Lum,Lu,IL
P3 Genetics	2218E	E3	R	1.8	PG+
P3 Genetics	2220E	E3	R	2.0	PG+
Pioneer	P18A98X §	RRX	R	1.8	Lum,Lu
Pioneer	P21A28X §	RRX	R	2.1	Lum,Lu,IL
Renk	RS212NXF	RXF	R	2.1	EcTC,SA

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Renk	RS219NX	RRX	R	2.1	EcTC,SA
Stine	21EE62 §	E3	R	2.1	SFI
Viking	1940KN	CONV	R	1.9	CMB
Viking	2018N	CONV	MR	2.0	CMB
Viking	2155N	CONV	MR	2.1	CMB
Xitavo	XO 1761E	E3	R	1.7	PV,IL,OB
Xitavo	XO 1971E	E3	R	1.9	PV,IL,OB
Xitavo	XO 2181E	E3	R	2.1	PV,IL,OB
Zinesto	Z1702E	E3	NA	1.7	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

\* 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.

## 2021 Soybeans - Iowa North [ IANO ]

### Full-Season Test Products (48 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	AG24XF1 §	RXF	R	2.4	ACi,IL
Benson Hill	E2358	CONV	MR	2.3	Untreated
Cornelius	CB22XF02	RXF	R	2.2	PG+
Cornelius	CB23XF63	RXF	R	2.3	PG+
Credenz	CZ 2360GTL	LLGT27	MR	2.3	PV,IL,OB
Credenz	CZ 2550GTL	LLGT27	MR	2.5	PV,IL,OB
Croplan	CP2200X CK	RRX	R	2.2	Untreated
FS HiSOY	23E10	E3	R	2.3	ACi,SA,B-200
FS HiSOY	23F10	RXF	R	2.3	ACi,B-200
FS HiSOY	24F00	RXF	R	2.4	ACi,B-200
FS HiSOY	25E00	E3	R	2.5	ACi,B-200
Genesis	G2260E	E3	R	2.2	CMBV,SA
Genesis	G2460ES	E3,ST	R	2.4	CMBV,SA
Genesis	G2550E	E3	R	2.5	CMBV,SA
Golden Harvest	GH2292E3	E3	MR	2.2	CMBV,SA
Golden Harvest	GH2562XF §	RXF	R	2.5	CMBV,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
Kruger	K2294XF	RXF	R	2.2	ACi,IL
Kruger	K2391XF	RXF	R	2.3	ACi,IL
Kruger	K2594XF	RXF	R	2.5	ACi,IL
Latham	L 2379 E3	E3	R	2.3	SS+,SA
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
Loyal	L2530E	E3	R	2.5	CMBV,SA
NK Brand	NK22-C4E3	E3	R	2.2	CMBV,SA
NK Brand	NK25-C9XF	RXF	MR	2.5	CMBV,SA
NuTech	22N02E	E3	R	2.2	Lum,Lu,IL
NuTech	24N04E	E3	R	2.4	Lum,Lu,IL
P3 Genetics	2222E	E3	R	2.2	PG+
P3 Genetics	2223E	E3	R	2.3	PG+
Renk	RS242NXF	RXF	R	2.4	EcTC,SA
Renk	RS248NX	RRX	R	2.4	EcTC,SA
Stine	24EE32 §	E3	R	2.4	SFI
Stine	25EB32 §	E3	R	2.5	SFI
Viking	2340KN	CONV	R	2.3	CMB
Viking	2418N	CONV	MR	2.4	CMB

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Viking	O.2244AT	CONV	MR	2.2	Vi,Ti
Xitavo	XO 2501E	E3	R	2.5	PV,IL,OB
Zinesto	Z2202E	E3	NA	2.2	DST4,SA
Zinesto	Z2300E	E3	R	2.3	DST4,SA
Zinesto	Z2302SE	E3,ST	NA	2.3	DST5
Zinesto	Z2401E	E3	R	2.4	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

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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

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S	susceptible
MR	moderate resistance
R	resistant
n/a	info unavailable

### Soybeans Technologies

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CONV	Conventional
E3	Enlist™ E3
LLGT27	LibertyLink® GT27®
RRX	Roundup Ready 2 Xtend®
RXF	Roundup Ready 2 XtendFlex®
ST	Sulfonylurea tolerant

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## Soybeans Seed Treatments\*

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NA	Not Available
ACi,B-200	Acceleron® Standard Insecticide-Fungicide, B-200 SAT
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
ACi,SA,B-200	Acceleron® Standard Insecticide-Fungicide, Saltro®, B-200 SAT
CMB	CruiserMaxx® Beans
CMBV,SA	Cruisermaxx® Beans, Vibrance®, Saltro®
DST4,SA	Dominance 4 ST,Saltro®
DST5	Dominance 5 ST
EcTC,SA	Eclipse US Total Coverage Trio IM, N-Force, Saltro®
Lum,Lu	LumiGEN™, Lumisena™
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
MAG	Max Armor Guard (Federal Hybrids)
PG+	Profit Guard +
PV,IL,OB	Poncho®/Votivo®, ILeVO, Obvius Plus
SF1	Stine XP F&I
SS+,SA	SoyShield Plus, Saltro®
Untreated	No seed treatment
Vi,Ti	Vibrance®, Trio

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