

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

## 2021 Soybeans Top 30 Harvest Report

Iowa North [IANO] LU VERNE, IA

Bob Plathe, Kossuth County, IA 50560

**Early-Season Test** 1.7 - 2.1 Day CRM  
S2021IANO01a

**Top 30 of 54** For Gross Income  
(Sorted by Yield)  
Average of (3) Replications

**PREV. CROP/HERB:** Corn / Corvus  
**SOIL DESCRIPTION:** Kossuth-Clarion silty clay loam,  
well drained, non-irrigated  
**SOIL CONDITION:** high P, medium K, 5.7 pH, 3.9%  
OM, 25.4 CEC  
**TILLAGE/CULTIVATION:** Minimum W/ Fall Till  
**PEST MANAGEMENT:** Zidua Wg, Section Three,  
Warrant Ultra  
**Applied N-P-K (units):** 0-80-70  
**SEEDED - RATE - ROW:** May 13 144.0 /A 30" spacing  
**HARVESTED - STAND:** Oct 6 123.5 /A

### TEST COMMENTS:

Bob reported some snowfall in the plot shortly after planting. While some fields in the county also experienced severe frost damage, this site had an 86% final stand versus planted population and survived the early cold snap. A few scattered plants revealed SDS and white mold during R6, however, it was not widespread across the plot area. The entire season was quite dry with an extended stretch from mid-July through 3rd weed of Aug that saw less than an inch of precipitation. Late Aug and early Sept showers were very welcome after the dry start of the season.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Federal	F2121N ↗	LLGT27	2.1	R	<b>69.3</b>	12.3	0	126.3	866	1
Apex	AE1720 ↗	E3	1.7	R	<b>67.6</b>	12.5	8	130.3	845	2
Credenz	CZ 2121GTLL ↗	LLGT27	2.1	MR	<b>67.4</b>	12.2	0	124.3	843	3
Latham	L 2049 E3 ↗	E3	2.0	R	<b>67.1</b>	12.2	0	129.7	839	4
P3 Genetics	2220E ↗	E3	2.0	R	<b>66.9</b>	12.5	0	128.3	836	5
Asgrow	AG21XF0 § ↗	RXF	2.1	R	<b>66.7</b>	12.2	0	123.3	834	6
Golden Harvest	GH1802E3 ↗	E3	1.8	R	<b>65.7</b>	12.1	0	130.0	821	7
Zinesto	Z1902E ↗	E3	1.9	NA	<b>65.5</b>	12.2	0	124.3	819	8
Hefty	H20XF1 ↗	RXF	2.0	NA	<b>65.5</b>	12.6	0	126.3	819	9
Hefty	H21XF2 ↗	RXF	2.1	NA	<b>65.3</b>	12.3	30	131.0	816	10
Genesis	G2190GL ↗	LLGT27	2.1	R	<b>64.7</b>	12.4	0	122.3	809	11
NuTech	21N06E ↗	E3	2.1	R	64.2	12.0	0	124.3	802	12
Golden Harvest	GH2102XF § ↗	RXF	2.1	MR	63.2	12.0	33	123.3	790	13
Latham	L 2184 R2X ↗	RRX	2.1	R	62.9	12.0	0	119.3	786	14
Xitavo	XO 1971E ↗	E3	1.9	R	62.9	11.9	21	125.3	786	15
Xitavo	XO 1761E ↗	E3	1.7	R	62.0	11.9	0	123.0	775	16
Zinesto	Z2002E ↗	E3	2.0	NA	62.0	12.5	8	133.3	775	17
Asgrow	AG18XF1 § ↗	RXF	1.8	R	61.9	12.4	30	127.7	774	18
Viking	1940KN ↗	CONV	1.9	R	61.9	12.2	0	113.3	774	19
NK Brand	NK21-H4XF § ↗	RXF	2.1	MR	61.8	12.3	42	125.7	772	20
Xitavo	XO 2181E ↗	E3	2.1	R	61.8	12.1	8	119.7	772	21
FS HiSOY	21E00 ↗	E3	2.1	R	61.5	12.1	17	131.0	769	22
NK Brand	S18-H3X GC ↗	RRX	1.8	R	61.2	12.1	12	128.0	765	23
Pioneer	P18A98X § ↗	RRX	1.8	R	60.8	12.2	38	123.3	760	25
Renk	RS219NX ↗	RRX	2.1	R	60.8	12.3	8	115.7	760	26
FS HiSOY	19F10 ↗	RXF	1.9	R	60.6	12.4	21	123.7	758	27
Apex	AE2020 ↗	E3	2.0	R	60.6	12.5	0	122.0	758	28
Latham	L 2193 E3 ↗	E3	2.1	R	60.5	12.3	21	118.7	756	29
Genesis	G2060E ↗	E3	2.0	R	60.4	12.3	12	129.7	755	30
Viking	2018N ↗	CONV	2.0	MR	60.3	12.3	12	123.3	754	31
Croplan	CP2200X CK	RRX	2.2	R	61.1	12.0	38	123.0	764	24

*Corey Rozenboom*

Corey Rozenboom

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Averages = **61.0** **12.3** **12** **123.5** **762**

LSD (0.10) = 3.5 0.2 ns

LSD (0.25) = 1.9 0.1 ns

C.V. = 5.5 Historic yield: 61.24 bu/a, 4 yr(s)

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

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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## 2021 Soybeans Top 30 Harvest Report

Iowa North [IANO] LU VERNE, IA

Bob Plathe, Kossuth County, IA 50560

<b>Full-Season Test</b>	2.2 - 2.5 Day CRM S2021IANO01b
<b>Top 30 of 48</b>	For Gross Income (Sorted by Yield) Average of (3) Replications
<b>PREV. CROP/HERB:</b>	Corn / Corvus
<b>SOIL DESCRIPTION:</b>	Kossuth-Clarion silty clay loam, well drained, non-irrigated
<b>SOIL CONDITION:</b>	high P, medium K, 5.7 pH, 3.9% OM, 25.4 CEC
<b>TILLAGE/CULTIVATION:</b>	Minimum W/ Fall Till
<b>PEST MANAGEMENT:</b>	Zidua Wg, Section Three, Warrant Ultra
<b>Applied N-P-K (units):</b>	0-80-70
<b>SEEDED - RATE - ROW:</b>	May 13 144.0 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 6 125.8 /A

### TEST COMMENTS:

Bob reported some snowfall in the plot shortly after planting. While some fields in the county also experienced severe frost damage, this site had an 86% final stand versus planted population and survived the early cold snap. A few scattered plants revealed SDS and white mold during R6, however, it was not widespread across the plot area. The entire season was quite dry with an extended stretch from mid-July through 3rd weed of Aug that saw less than an inch of precipitation. Late Aug and early Sept showers were very welcome after the dry start of the season.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Kruger	K2294XF ↗	RXF	2.2	R	<b>69.4</b>	12.9	0	123.3	868	1
Hefty	H25X0	RRX	2.5	R	<b>68.9</b>	11.9	0	112.3	861	2
Latham	L 2549 R2X ↗	RRX	2.5	R	<b>68.4</b>	12.1	0	119.7	855	3
Xitavo	XO 2501E ↗	E3	2.5	R	<b>68.1</b>	12.2	0	122.0	851	4
FS HiSOY	23E10 ↗	E3	2.3	R	<b>68.0</b>	12.4	0	129.3	850	5
Kruger	K2594XF ↗	RXF	2.5	R	<b>67.1</b>	12.6	0	131.3	839	6
Asgrow	AG24XF1 § ↗	RXF	2.4	R	<b>67.0</b>	12.6	0	136.3	838	7
NK Brand	NK22-C4E3 ↗	E3	2.2	R	<b>66.5</b>	12.1	0	110.7	831	8
Latham	L 2458 E3 ↗	E3	2.4	R	<b>66.3</b>	12.5	0	122.3	829	9
Renk	RS248NX ↗	RRX	2.4	R	65.8	12.3	0	127.0	822	10
FS HiSOY	23F10 ↗	RXF	2.3	R	65.5	12.7	8	116.7	819	11
P3 Genetics	2223E ↗	E3	2.3	R	65.5	12.5	0	126.7	819	12
Zinesto	Z2401E ↗	E3	2.4	R	65.2	11.8	8	130.7	815	13
Loyal	L2530E ↗	E3	2.5	R	64.9	11.8	12	128.3	811	14
Genesis	G2460ES ↗	E3,ST	2.4	R	64.6	12.4	0	114.7	807	15
Kruger	K2391XF ↗	RXF	2.3	R	64.2	12.8	0	135.0	802	16
Apex	AE2420S ↗	E3,ST	2.4	R	63.8	12.0	0	125.7	798	17
Hefty	H25XF1 ↗	RXF	2.5	NA	63.8	12.6	16	118.0	798	18
Hefty	H23XF1 ↗	RXF	2.3	NA	63.6	12.6	0	137.7	795	19
Golden Harvest	GH2292E3 ↗	E3	2.2	MR	63.5	11.9	0	121.3	794	20
Credenz	CZ 2550GTLL ↗	LLGT27	2.5	MR	63.1	12.1	0	124.3	789	21
Latham	L 2494 XF ↗	RXF	2.4	R	62.9	12.6	0	135.0	786	22
Zinesto	Z2302SE ↗	E3,ST	2.3	NA	62.8	12.4	0	127.7	785	23
Golden Harvest	GH2562XF § ↗	RXF	2.5	R	62.6	12.0	25	123.0	782	24
Cornelius	CB23XF63 ↗	RXF	2.3	R	62.6	12.4	0	125.7	782	25
FS HiSOY	25E00 ↗	E3	2.5	R	62.4	12.0	8	130.7	780	26
Zinesto	Z2300E ↗	E3	2.3	R	62.1	12.1	0	133.0	776	27
Renk	RS242NXF ↗	RXF	2.4	R	61.9	12.0	16	123.7	774	28
P3 Genetics	2222E ↗	E3	2.2	R	61.9	12.2	0	129.0	774	29
FS HiSOY	24F00 ↗	RXF	2.4	R	61.7	12.5	0	127.3	771	30
Croplan	CP2200X CK	RRX	2.2	R	61.6	12.3	21	123.0	770	31
					Averages =	<b>62.5</b>	<b>12.3</b>	<b>5</b>	<b>125.8</b>	<b>782</b>
					LSD (0.10) =	3.6	0.2	14		
					LSD (0.25) =	1.9	0.1	8		
					C.V. =	5.4	Historic yield: 61.24 bu/a, 4 yr(s)			

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### Yield & Income Factors:

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

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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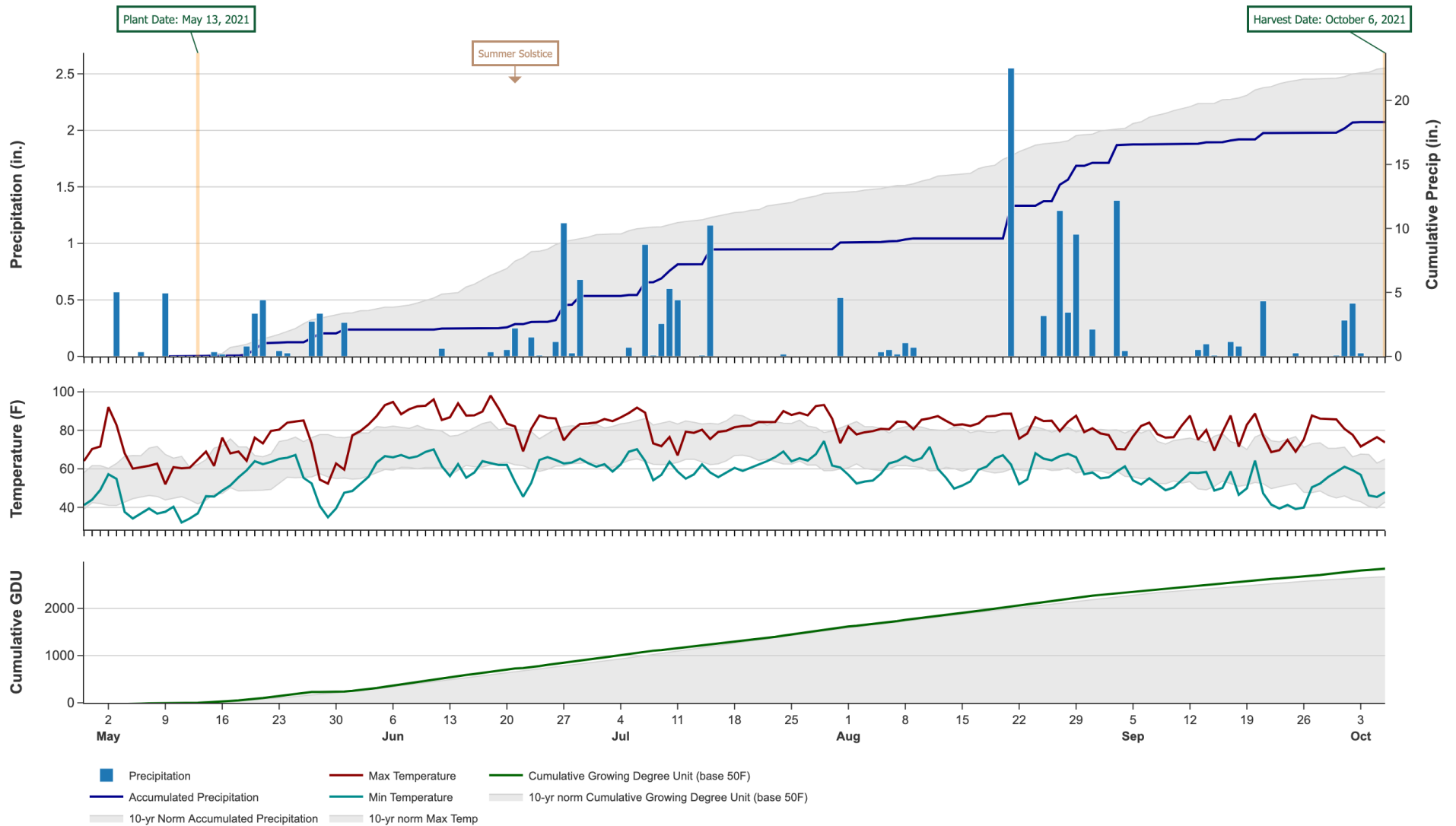
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# 2021 Soybeans - Iowa North [ IANO ]

## Weather Conditions Summary at LU VERNE, IA

Weather Data Retrieved: 10/07/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in)   Normal (Diff)	0.0   0.2 (-0.2)	3.3   5.4 (-2.2)	2.6   5.9 (-3.3)	4.2   3.5 (+0.7)	6.2   4.5 (+1.7)	2.4   4.4 (-2.0)	0.8   0.8 (0.0)	19.5   24.8 (-5.3)
GDU   Normal (Diff)	17   5 (+11)	318   329 (-11)	677   611 (+65)	681   723 (-42)	671   628 (+42)	480   424 (+55)	91   50 (+40)	2935   2772 (+162)



\* 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

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
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
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 2360GTLL	LLGT27	MR	2.3	PV,IL,OB
Credenz	CZ 2550GTLL	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+

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