

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

2021 Soybeans Top 30 Harvest Report

Iowa North [IANO] NEW HAMPTON, IA
Mark Bruening, Chickasaw County, IA 50659

Early-Season Test	1.7 - 2.1 Day CRM S2021IANO04a
Top 30 of 54	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Stalwart, Atrazine, Roundup
SOIL DESCRIPTION:	Readlyn silt loam, well drained, non-irrigated
SOIL CONDITION:	very high P, medium K, 6.4 pH, 4.4% OM, 19.5 CEC
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	2-4d, Sencor, Dual, Prefix, Select, First Rate
Applied N-P-K (units):	0-0-150
SEEDED - RATE - ROW:	May 11 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 16 113.0 /A

TEST COMMENTS:

Mark's Readlyn silty loam on this farm is typically very productive and produces great bean crops. Conditions were favorable for emergence for 2 weeks after planting but a cold snap around Memorial Day might have impacted stands slightly. A final stand average of 81% of the planted population revealed the struggle seedlings had to overcome in the early weeks of development. The Aug 21 - Sept 3 rain showers that covered this area brought plants new vigor and filled pods nicely. However, green stems were a common sight in bean fields across the area for the first couple of weeks of harvest.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Zinesto	Z1702E ↗	E3	1.7	NA	77.1	13.4	22	119.3	963	1
Hefty	H18XF2 ↗	RXF	1.8	NA	76.0	13.0	0	107.3	950	2
Credenz	CZ 2121GTLL ↗	LLGT27	2.1	MR	75.7	13.1	0	110.3	946	3
Xitavo	XO 2181E ↗	E3	2.1	R	74.9	12.7	3	109.0	936	4
Genesis	G2190GL ↗	LLGT27	2.1	R	74.5	13.3	3	99.7	931	5
Zinesto	Z1902E ↗	E3	1.9	NA	74.0	13.2	0	116.3	925	6
Xitavo	XO 1761E ↗	E3	1.7	R	73.7	12.8	3	113.7	921	8
Federal	F2121N ↗	LLGT27	2.1	R	72.9	13.1	0	113.0	911	9
Genesis	G1760E ↗	E3	1.7	R	72.5	13.5	32	120.3	906	10
Hefty	H20XF1 ↗	RXF	2.0	NA	72.2	13.2	8	125.0	902	11
Kruger	K2084XF ↗	RXF	2.0	R	71.2	13.2	3	117.0	890	12
P3 Genetics	2218E ↗	E3	1.8	R	71.0	13.5	11	110.7	887	13
FS HiSOY	19F10 ↗	RXF	1.9	R	70.0	12.9	24	95.7	875	14
Hefty	H21XF2 ↗	RXF	2.1	NA	69.5	13.0	8	128.0	869	15
Xitavo	XO 1971E ↗	E3	1.9	R	69.2	12.6	0	117.0	865	16
Genesis	G2060E ↗	E3	2.0	R	69.1	13.1	19	122.0	864	17
FS HiSOY	21E00 ↗	E3	2.1	R	68.4	12.8	8	117.0	855	18
Renk	RS219NX ↗	RRX	2.1	R	68.0	12.8	0	111.3	850	19
NuTech	20N04E ↗	E3	2.0	R	67.5	13.1	25	121.0	844	20
Latham	L 2184 R2X ↗	RRX	2.1	R	67.5	13.0	30	114.3	844	21
Viking	2018N ↗	CONV	2.0	MR	67.4	13.0	0	124.0	842	22
Cornelius	CB21X55 ↗	RRX	2.1	R	67.2	12.8	0	114.3	840	23
P3 Genetics	2220E ↗	E3	2.0	R	67.1	13.3	24	117.7	838	24
NuTech	18N02E ↗	E3	1.8	R	66.8	12.7	0	113.7	835	25
Asgrow	AG18XF1 § ↗	RXF	1.8	R	66.7	12.8	0	113.3	834	26
NK Brand	NK21-H4XF § ↗	RXF	2.1	MR	66.4	13.1	45	116.7	830	27
Zinesto	Z2002E ↗	E3	2.0	NA	66.3	13.0	8	103.3	829	28
Zinesto	Z1802E ↗	E3	1.8	NA	66.2	13.4	3	112.7	827	29
FS HiSOY	21F00 ↗	RXF	2.1	R	66.1	13.2	36	117.0	826	30
Pioneer	P18A98X § ↗	RRX	1.8	R	65.8	13.2	0	110.3	822	31
Croplan	CP2200X CK	RRX	2.2	R	74.0	12.8	0	122.7	925	7
					Averages =	67.1	13.1	11	113.0	838
					LSD (0.10) =	5.2	0.2	16		
					LSD (0.25) =	2.7	0.1	9		
					C.V. =	7.4	Historic yield: 55.17 bu/a, 19 yr(s)			

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: 10/17/2021

† 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] NEW HAMPTON, IA
Mark Bruening, Chickasaw County, IA 50659

Full-Season Test	2.2 - 2.5 Day CRM S2021IANO04b
Top 30 of 48	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Stalwart, Atrazine, Roundup
SOIL DESCRIPTION:	Readlyn silt loam, well drained, non-irrigated
SOIL CONDITION:	very high P, medium K, 6.4 pH, 4.4% OM, 19.5 CEC
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	2-4d, Sencor, Dual, Prefix, Select, First Rate
Applied N-P-K (units):	0-0-150
SEEDED - RATE - ROW:	May 11 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 16 121.4 /A

TEST COMMENTS:

Mark's Readlyn silty loam on this farm is typically very productive and produces great bean crops. Conditions were favorable for emergence for 2 weeks after planting but a cold snap around Memorial Day might have impacted stands slightly. A final stand average of 81% of the planted population revealed the struggle seedlings had to overcome in the early weeks of development. The Aug 21 - Sept 3 rain showers that covered this area brought plants new vigor and filled pods nicely. However, green stems were a common sight in bean fields across the area for the first couple of weeks of harvest.

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	81.0	13.0	0	108.7	1012	1
Hefty	H25X0 ↗	RRX	2.5	R	77.6	12.6	0	122.7	970	2
P3 Genetics	2223E ↗	E3	2.3	R	77.3	13.3	0	123.3	966	3
Renk	RS248NX ↗	RRX	2.4	R	77.1	13.7	0	127.3	963	4
Cornelius	CB23XF63 ↗	RXF	2.3	R	76.4	13.1	0	119.0	955	5
Genesis	G2550E ↗	E3	2.5	R	75.8	12.9	0	122.0	948	6
FS HiSOY	24F00 ↗	RXF	2.4	R	75.7	13.4	0	121.0	946	7
Latham	L 2549 R2X ↗	RRX	2.5	R	75.5	12.8	0	112.3	944	8
NuTech	22N02E ↗	E3	2.2	R	74.5	12.9	0	117.3	931	9
Viking	2418N ↗	CONV	2.4	MR	74.0	13.1	0	126.3	925	10
Zinesto	Z2202E ↗	E3	2.2	NA	73.5	12.9	0	105.0	919	11
Kruger	K2594XF ↗	RXF	2.5	R	73.5	13.3	0	122.3	918	12
Latham	L 2494 XF ↗	RXF	2.4	R	73.0	13.3	0	128.3	912	13
NuTech	24N04E ↗	E3	2.4	R	72.2	12.7	0	126.0	902	15
Latham	L 2458 E3 ↗	E3	2.4	R	72.0	13.1	0	114.7	900	16
Kruger	K2294XF ↗	RXF	2.2	R	71.9	13.6	0	125.3	898	18
Xitavo	XO 2501E ↗	E3	2.5	R	71.9	12.9	0	112.7	899	17
NK Brand	NK25-C9XF ↗	RXF	2.5	MR	71.7	12.5	3	127.7	896	19
Golden Harvest	GH2562XF § ↗	RXF	2.5	R	71.6	12.7	11	114.7	895	20
FS HiSOY	23E10 ↗	E3	2.3	R	71.3	12.9	8	130.3	891	21
P3 Genetics	2222E ↗	E3	2.2	R	71.3	12.9	0	110.3	891	22
Hefty	H24XF2 ↗	RXF	2.4	NA	71.3	13.4	0	127.3	891	23
Loyal	L2530E ↗	E3	2.5	R	71.2	13.0	3	131.3	890	24
Golden Harvest	GH2292E3 ↗	E3	2.2	MR	71.0	12.9	0	132.7	888	25
Credenz	CZ 2550GTLL ↗	LLGT27	2.5	MR	70.5	13.0	0	130.7	881	26
Zinesto	Z2302SE ↗	E3,ST	2.3	NA	70.4	13.4	0	113.3	879	27
NK Brand	NK22-C4E3 ↗	E3	2.2	R	70.3	12.9	0	105.7	879	28
Credenz	CZ 2360GTLL ↗	LLGT27	2.3	MR	70.1	13.0	0	127.7	876	29
Renk	RS242NXF ↗	RXF	2.4	R	70.1	12.8	0	114.3	876	30
Apex	AE2220 ↗	E3	2.2	R	69.9	12.9	0	120.0	874	31
Croplan	CP2200X CK	RRX	2.2	R	72.7	12.9	5	125.7	909	14
					Averages =	70.9	13.1	2	121.4	886
					LSD (0.10) =	4.2	0.3	7		
					LSD (0.25) =	2.2	0.2	4		
					C.V. =	5.6				
corey.rozenboom@firstseedtests.com, (319) 830-8886					Historic yield: 55.17 bu/a, 19 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: 10/17/2021

† 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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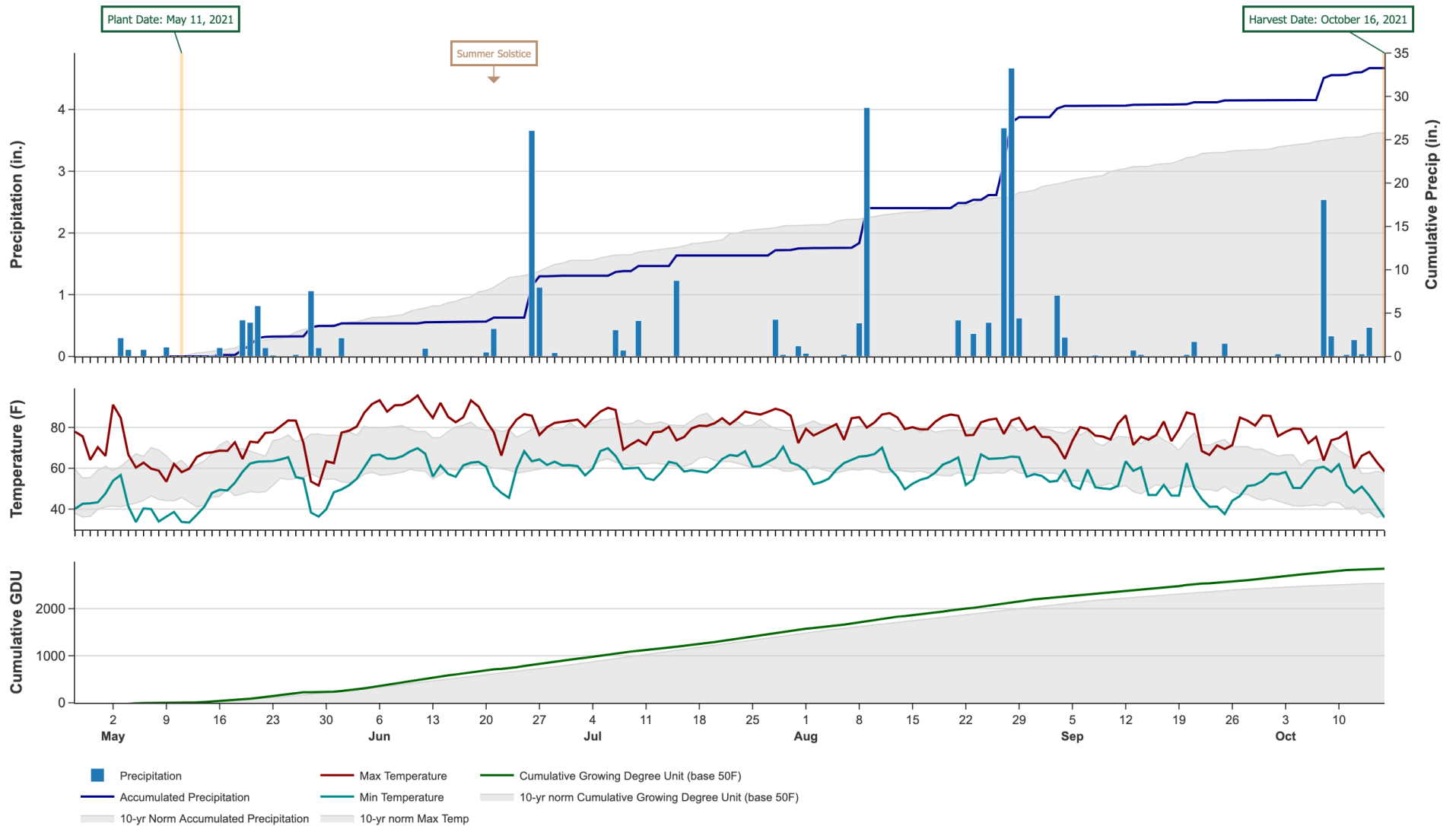
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2021 Soybeans - Iowa North [IANO]

Weather Conditions Summary at NEW HAMPTON, IA

Weather Data Retrieved: 10/17/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	0.0 0.5 (-0.5)	4.2 5.6 (-1.5)	5.8 7.1 (-1.3)	3.1 4.4 (-1.2)	15.2 4.1 (+11.1)	1.9 4.7 (-2.7)	3.7 1.9 (+1.8)	33.9 28.3 (+5.6)
GDU Normal (Diff)	44 0 (+44)	307 308 (-1)	655 556 (+98)	664 679 (-15)	641 584 (+56)	444 386 (+57)	207 96 (+110)	2962 2611 (+350)



* 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

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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

CONV	Conventional
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,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

* Seed treatments may include unspecified plant health promoting components.