

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

2021 Soybeans Top 30 Harvest Report

Iowa Northwest [IANW] HARTLEY, IA
Clint Van Beek, O'Brien County, IA 51346

Early-Season Test	1.9 - 2.4 Day CRM S2021IANW02a
Top 30 of 42	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Resicore, Veltyma
SOIL DESCRIPTION:	Galva silty clay loam, moderately drained, non-irrigated
SOIL CONDITION:	very high P, very high K, 6.5 pH, 4.3% OM, 25.4 CEC
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	Authority First, Roundup, Warrant Ultra, Section Three, Priaxor
Applied N-P-K (units):	0-0-0
SEDED - RATE - ROW:	May 18 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 12 131.1 /A

TEST COMMENTS:

This part of Clint's field has a history of injected swine manure for at least every other year over the past 20+ years and fertility levels are very high. These conditions have led to the development of white mold that can really separate differences among varieties at harvest (yield differences of 30 bu/a). With the consistency of rainfall experienced this season on the farm, conditions were right to produce very tall plants that canopied quickly and favored white mold. Most varieties handled it well, but a handful of later varieties, especially in the full season trial, were impacted severely which dragged down the yield average for the entire trial.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Golden Harvest	GH2102XF § ↗	RXF	2.1	MR	77.4	13.1	0	134.0	967	1
NK Brand	NK21-H4XF § ↗	RXF	2.1	MR	76.8	13.1	0	136.0	960	2
Zinesto	Z1902E ↗	E3	1.9	NA	75.1	13.0	0	122.7	939	3
Golden Harvest	GH2292E3 ↗	E3	2.2	MR	74.6	12.8	0	127.0	932	4
Credenz	CZ 2121GTLL ↗	LLGT27	2.1	MR	74.4	13.0	0	117.7	930	5
NK Brand	NK22-C4E3 ↗	E3	2.2	R	73.4	12.8	0	126.0	918	6
Apex	AE2020 ↗	E3	2.0	R	73.1	13.1	0	128.0	914	7
Credenz	CZ 2360GTLL ↗	LLGT27	2.3	MR	73.0	13.1	0	121.0	912	8
Hoegemeyer	2141 E ↗	E3	2.1	R	72.3	12.9	0	130.7	904	9
FS HISOY	21E00 ↗	E3	2.1	R	71.6	13.1	0	128.3	895	10
NK Brand	S19-2E3 GC ↗	E3	1.9	R	71.5	12.8	0	137.7	894	11
Stine	21EE62 § ↗	E3	2.1	R	71.3	12.9	0	123.3	891	12
Xitavo	XO 2181E ↗	E3	2.1	R	71.0	12.9	0	132.3	888	13
Stine	20EE23 § ↗	E3	2.0	R	70.8	13.1	0	140.7	885	14
Latham	L 2049 E3 ↗	E3	2.0	R	70.2	13.1	0	129.0	877	15
Kruger	K2084XF ↗	RXF	2.0	R	70.2	13.1	0	127.0	877	16
Apex	AE2220 ↗	E3	2.2	R	70.1	13.0	0	128.3	876	17
Genesis	G1960E ↗	E3	1.9	R	69.7	13.4	11	128.3	871	18
Genesis	G2060E ↗	E3	2.0	R	69.3	13.2	5	131.7	866	19
Pioneer	P21A28X GC ↗	RRX	2.1	R	69.2	12.9	0	133.7	865	20
Hefty	H21XF2 ↗	RXF	2.1	NA	68.9	12.9	0	138.7	861	21
Hoegemeyer	2240 E ↗	E3	2.2	R	68.8	12.9	0	137.3	860	22
Genesis	G2460ES ↗	E3,ST	2.4	R	68.4	13.1	0	134.0	855	23
Kruger	K2294XF ↗	RXF	2.2	R	67.1	13.2	0	138.7	838	25
Genesis	G2260E ↗	E3	2.2	R	67.1	13.1	0	129.0	839	24
FS HISOY	19F10 ↗	RXF	1.9	R	67.0	12.8	11	132.7	838	26
Xitavo	XO 1971E ↗	E3	1.9	R	66.9	12.8	5	127.0	836	27
Zinesto	Z2202E ↗	E3	2.2	NA	66.9	13.0	0	124.0	836	28
Latham	L 2193 E3 ↗	E3	2.1	R	66.6	12.8	0	125.7	832	29
Apex	AE2420S ↗	E3,ST	2.4	R	66.1	13.0	0	136.3	826	30
Croplan	CP2400X CK	RRX	2.4	R	59.4	12.8	0	138.7	742	39
					Averages =	67.7	13.0	3	131.1	846
					LSD (0.10) =	3.9	0.2	9		
					LSD (0.25) =	2.0	0.1	5		
					C.V. =	5.4	Historic yield: 55.89 bu/a, 10 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: 10/13/2021

† 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 Northwest [IANW] HARTLEY, IA
Clint Van Beek, O'Brien County, IA 51346

Full-Season Test	2.5 - 2.8 Day CRM S2021IANW02b
Top 30 of 36	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Resicore, Veltyma
SOIL DESCRIPTION:	Galva silty clay loam, moderately drained, non-irrigated
SOIL CONDITION:	very high P, very high K, 6.5 pH, 4.3% OM, 25.4 CEC
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	Authority First, Roundup, Warrant Ultra, Section Three, Priaxor
Applied N-P-K (units):	0-0-0
SEDED - RATE - ROW:	May 18 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 12 131.4 /A

TEST COMMENTS:

This part of Clint's field has a history of injected swine manure for at least every other year over the past 20+ years and fertility levels are very high. These conditions have led to the development of white mold that can really separate differences among varieties at harvest (yield differences of 30 bu/a). With the consistency of rainfall experienced this season on the farm, conditions were right to produce very tall plants that canopied quickly and favored white mold. Most varieties handled it well, but a handful of later varieties, especially in the full season trial, were impacted severely which dragged down the yield average for the entire trial.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Pioneer	P25A54X GC ↗	RRX	2.5	R	71.6	12.9	8	133.0	895	1
Xitavo	XO 2832E ↗	E3	2.8	R	71.1	13.2	0	125.7	888	2
FS HISOY	28E10 ↗	E3	2.8	R	69.6	13.2	0	129.0	870	3
FS HISOY	25E00 ↗	E3	2.5	R	69.1	13.0	5	133.3	864	4
Latham	L 2887 R2X ↗	RRX	2.8	R	69.0	13.0	22	129.0	862	5
Credenz	CZ 2550GTLL ↗	LLGT27	2.5	MR	66.9	12.9	0	137.0	836	6
Genesis	G2550E ↗	E3	2.5	R	66.8	12.8	5	135.0	835	7
Latham	L 2894 E3 ↗	E3	2.8	R	66.5	12.9	5	124.7	831	8
Kruger	K2594XF ↗	RXF	2.5	R	65.7	13.1	0	135.3	821	9
FS HISOY	27E10 ↗	E3	2.7	R	65.4	13.0	0	127.3	818	10
Pioneer	P26T23E § ↗	E3	2.6	R	65.2	13.2	0	139.3	815	11
NK Brand	NK25-C9XF ↗	RXF	2.5	MR	64.9	12.8	5	133.0	811	12
Stine	25EB32 § ↗	E3	2.5	R	64.9	13.1	0	124.3	811	13
Golden Harvest	GH2562XF § ↗	RXF	2.5	R	63.8	13.0	65	136.0	798	14
Asgrow	AG27XF1 § ↗	RXF	2.7	R	63.5	13.1	0	133.3	794	15
Asgrow	AG27XF2 § ↗	RXF	2.7	R	63.4	12.8	0	118.3	792	16
Xitavo	XO 2501E ↗	E3	2.5	R	63.3	13.0	16	136.0	791	17
Credenz	CZ 2760GTLL ↗	LLGT27	2.7	R	62.6	13.1	0	133.0	782	18
Hoegemeyer	2660 E ↗	E3	2.6	R	62.1	13.1	0	126.7	776	19
Pioneer	P26T57E § ↗	E3	2.6	R	61.7	12.9	0	129.0	771	20
Hefty	H25XF1 ↗	RXF	2.5	NA	61.3	13.2	48	134.0	766	21
Golden Harvest	GH2722XF GC ↗	RXF	2.7	MR	61.0	12.9	8	130.0	762	22
Pioneer	P27A17X § ↗	RRX	2.7	R	60.9	13.0	0	130.3	761	23
Latham	L 2786 XF ↗	RXF	2.7	R	60.9	13.7	0	124.3	760	24
Kruger	K2793XF ↗	RXF	2.7	R	60.6	13.1	0	124.3	757	25
Federal	F2520N GC ↗	RXF	2.5	R	59.8	12.9	0	138.7	748	27
Asgrow	AG26XF1 § ↗	RXF	2.6	R	58.8	13.4	0	137.3	735	28
Golden Harvest	GH2872XF ↗	RXF	2.8	R	58.6	13.4	0	123.7	732	29
Hefty	H28X8 ↗	RRX	2.8	R	58.3	13.2	0	132.3	729	30
Latham	L 2839 LLGT27 ↗	LLGT27	2.8	R	56.8	13.3	0	135.3	710	31
Croplan	CP2400X CK	RRX	2.4	R	60.5	13.0	0	132.0	756	26
					Averages =	61.7	13.1	8	131.4	771
					LSD (0.10) =	5.6	0.2	13		
					LSD (0.25) =	2.9	0.1	7		
					C.V. =	8.5				
					Historic yield: 55.89 bu/a, 10 yr(s)					

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Yield & Income Factors:

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Report Date: 10/13/2021

† 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

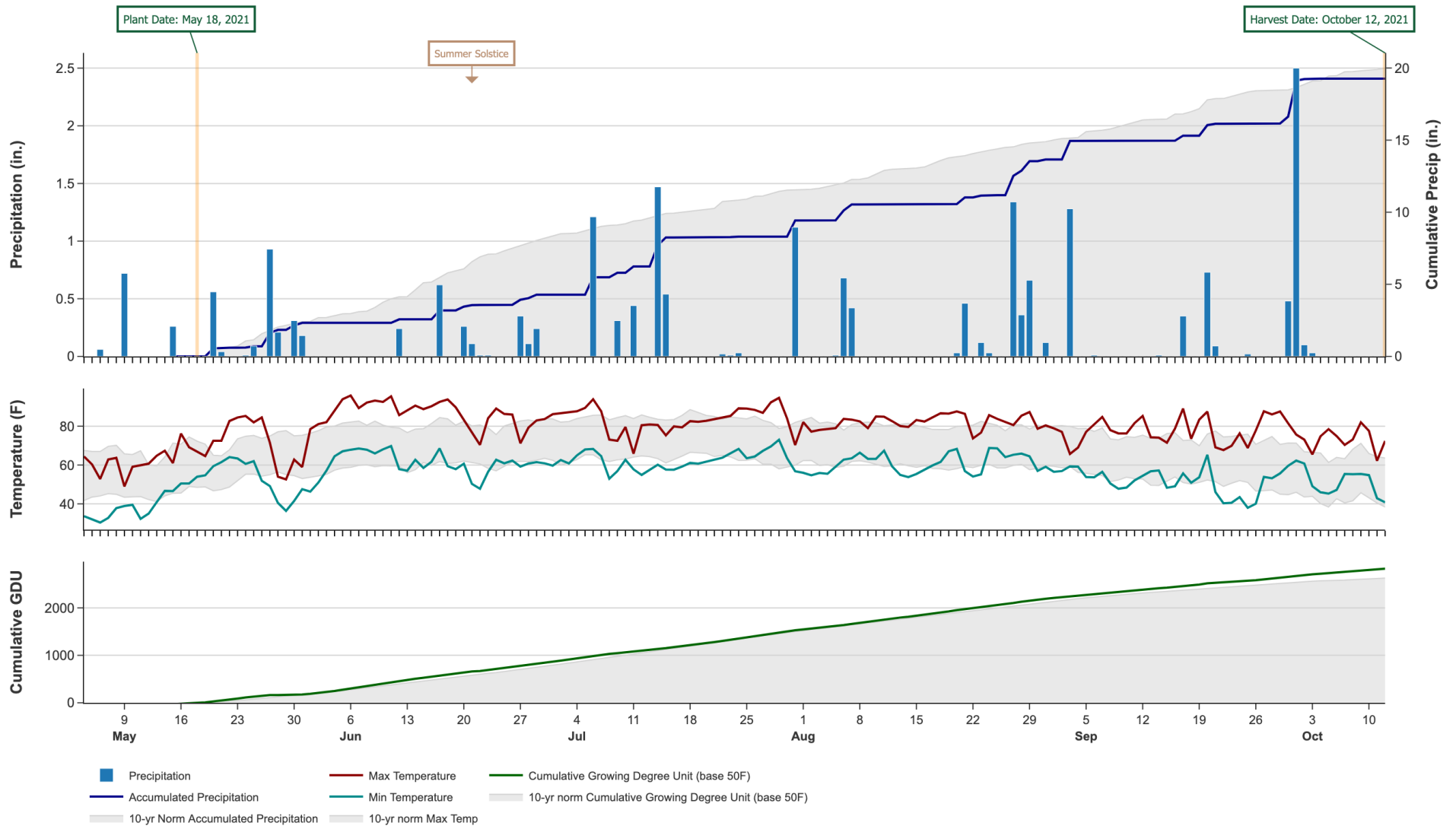
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2021 Soybeans - Iowa Northwest [IANW]

Weather Conditions Summary at HARTLEY, IA

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	3.4 4.4 (-1.0)	1.9 5.8 (-3.8)	5.2 3.4 (+1.8)	4.2 3.4 (+0.9)	3.0 3.6 (-0.6)	2.6 1.5 (+1.1)	20.3 22.0 (-1.7)
GDU Normal (Diff)	237 299 (-62)	668 601 (+66)	685 725 (-40)	664 623 (+40)	471 416 (+54)	162 90 (+71)	2887 2758 (+128)



* 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 Northwest [IANW]

Early-Season Test Products (42 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Apex	AE2020	E3	R	2.0	CMBV,SA
Apex	AE2220	E3	R	2.2	CMBV,SA
Apex	AE2420S	E3,ST	R	2.4	CMBV,SA
Credenz	CZ 2121GTLL	LLGT27	MR	2.1	PV,IL,OB
Credenz	CZ 2360GTLL	LLGT27	MR	2.3	PV,IL,OB
Croplan	CP2400X CK	RRX	R	2.4	Untreated
FS HiSOY	19F10	RXF	R	1.9	ACi,B-200
FS HiSOY	21E00	E3	R	2.1	ACi,B-200
FS HiSOY	24F00	RXF	R	2.4	ACi,B-200
Genesis	G1960E	E3	R	1.9	CMBV,SA
Genesis	G2060E	E3	R	2.0	CMBV,SA
Genesis	G2260E	E3	R	2.2	CMBV,SA
Genesis	G2460ES	E3,ST	R	2.4	CMBV,SA
Golden Harvest	GH2102XF §	RXF	MR	2.1	CMBV,SA
Golden Harvest	GH2292E3	E3	MR	2.2	CMBV,SA
Hefty	H20XF1	RXF	NA	2.0	DST4,SA
Hefty	H20XF2	RXF	NA	2.0	DST4,SA
Hefty	H21XF2	RXF	NA	2.1	DST4,SA
Hefty	H24XF2	RXF	NA	2.4	DST4,SA
Hoegemeyer	2141 E	E3	R	2.1	Lum,Lu,IL
Hoegemeyer	2240 E	E3	R	2.2	Lum,Lu,IL
Hoegemeyer	2421 E	E3	R	2.4	Lum,Lu,IL
Kruger	K2084XF	RXF	R	2.0	ACi,IL
Kruger	K2294XF	RXF	R	2.2	ACi,IL
Kruger	K2391XF	RXF	R	2.3	ACi,IL
Latham	L 2049 E3	E3	R	2.0	SS+,SA
Latham	L 2193 E3	E3	R	2.1	SS+,SA
Latham	L 2379 E3	E3	R	2.3	SS+,SA
Latham	L 2458 E3	E3	R	2.4	SS+,SA
NK Brand	NK19-C8XF	RXF	R	1.9	CMBV,SA
NK Brand	NK21-H4XF §	RXF	MR	2.1	CMBV,SA
NK Brand	NK22-C4E3	E3	R	2.2	CMBV,SA
NK Brand	S19-2E3 GC	E3	R	1.9	Untreated
Pioneer	P21A28X GC	RRX	R	2.1	Lum,Lu,IL
Stine	20EE23 §	E3	R	2.0	SFI
Stine	21EE62 §	E3	R	2.1	SFI
Xitavo	XO 1971E	E3	R	1.9	PV,IL,OB
Xitavo	XO 2181E	E3	R	2.1	PV,IL,OB
Zinesto	Z1902E	E3	NA	1.9	DST5
Zinesto	Z2002E	E3	NA	2.0	DST4,SA
Zinesto	Z2202E	E3	NA	2.2	DST4,SA
Zinesto	Z2302SE	E3,ST	NA	2.3	DST5

* 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 Northwest [IANW]

Full-Season Test Products (36 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Asgrow	AG26XF1 §	RXF	R	2.6	ACi,IL
Asgrow	AG27XF1 §	RXF	R	2.7	ACi,IL
Asgrow	AG27XF2 §	RXF	R	2.7	ACi,IL
Credenz	CZ 2550GTLL	LLGT27	MR	2.5	PV,IL,OB
Credenz	CZ 2760GTLL	LLGT27	R	2.7	PV,IL,OB
Croplan	CP2400X CK	RRX	R	2.4	Untreated
Federal	F2520N GC	RXF	R	2.5	MAG
FS HiSOY	25E00	E3	R	2.5	ACi,B-200
FS HiSOY	27E10	E3	R	2.7	ACi,B-200
FS HiSOY	27F10	RXF	R	2.7	ACi,B-200
FS HiSOY	28E10	E3	R	2.8	ACi,B-200
Genesis	G2550E	E3	R	2.5	CMBV,SA
Golden Harvest	GH2562XF §	RXF	R	2.5	CMBV,SA
Golden Harvest	GH2722XF GC	RXF	MR	2.7	CMBV,SA
Golden Harvest	GH2872XF	RXF	R	2.8	CMBV,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
Hefty	H28XF1	RXF	R	2.8	DST5
Hoegemeyer	2660 E	E3	R	2.6	Lum,Lu,IL
Hoegemeyer	2831 E	E3	R	2.8	Lum,Lu,IL
Kruger	K2594XF	RXF	R	2.5	ACi,IL
Kruger	K2793XF	RXF	R	2.7	ACi,IL
Kruger	K2885XF	RXF	R	2.8	ACi,IL
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
NK Brand	NK25-C9XF	RXF	MR	2.5	CMBV,SA
Pioneer	P25A54X GC	RRX	R	2.5	Untreated
Pioneer	P26T23E §	E3	R	2.6	Lum,Lu,IL
Pioneer	P26T57E §	E3	R	2.6	Lum,Lu,IL
Pioneer	P27A17X §	RRX	R	2.7	Lum,Lu,IL
Stine	25EB32 §	E3	R	2.5	SFI
Xitavo	XO 2501E	E3	R	2.5	PV,IL,OB
Xitavo	XO 2832E	E3	R	2.8	PV,IL,OB

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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

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
CMBV,SA	Cruisermx® Beans, Vibrance®, Saltro®
DST4,SA	Dominance 4 ST, Saltro®
DST5	Dominance 5 ST
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
MAG	Max Armor Guard (Federal Hybrids)
PV,IL,OB	Poncho®/Votivo®, ILeVO, Obvius Plus
SFI	Stine XP F&I
SS+,SA	SoyShield Plus, Saltro®
Untreated	No seed treatment

* Seed treatments may include unspecified plant health promoting components.