

Test by: F.I.R.S.T. MSR, Inc. Columbia, MO

2021 Soybeans Top 30 Harvest Report

Missouri North [MONO] ST. JOSEPH, MO
Jeff Gaskill, Buchanan County, MO 64098

Early-Season Test	Maturity Group 3.2 - 3.7 S2021MONO01a
Top 30 of 44	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Fulltime Nxt, Armezon, Atrazine 4l
SOIL DESCRIPTION:	Haynie silt loam, moderately drained, non-irrigated
SOIL CONDITION:	low P, very high K, 7.9 pH, 1.5% OM, 14.8 CEC
TILLAGE/CULTIVATION:	Conventional W/O Fall Till
PEST MANAGEMENT:	Authority Elite, Liberty
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	Jun 7 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 19 127.7 /A

TEST COMMENTS:

A good soaker on June 25 was followed by a dry bias for an extended period during the yield making months of July and August. July and almost half of August never received daily rainfall of more than 1/2 in. July was 3.7" below average. Quite possibly this put downward pressure on yield potential. August 13th did bring much needed precipitation with a 2.4" rain event. There were no signs of herbicide damage, no weed pressure, and no sign of disease pressure. This uniform trial site facilitated a very good test.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Xitavo	XO 3752E ↗	E3,ST	3.7	R	57.7	11.0	1	131.7	692	1
NuTech	37N01E ↗	E3	3.7	R	57.7	11.1	1	131.7	692	2
Donmario	DM3756E ↗	E3	3.7	R	57.1	11.0	1	131.0	685	3
Golden Harvest	GH3512E3S ↗	E3,ST	3.5	MR	56.4	11.4	4	127.7	677	4
Xitavo	XO 3402E ↗	E3	3.4	R	56.2	11.0	1	122.0	674	5
Golden Harvest	GH3442XF ↗	RXF	3.4	MR	56.0	11.2	1	118.3	672	6
AgriGold	G3755E3 ↗	E3	3.7	R	56.0	11.1	1	126.0	672	7
Pioneer	P38T05E § ↗	E3	3.8	R	55.2	11.1	1	129.7	662	8
FS HiSOY	37F00 ↗	RXF	3.7	R	54.6	11.1	1	122.0	655	9
FS HiSOY	35E10 ↗	E3	3.5	R	54.5	11.1	2	127.7	654	10
Midland Genetics	3591E3 ↗	E3	3.5	MR	54.2	11.2	1	131.7	650	11
Stine	35EE32 § ↗	E3	3.5	R	54.2	11.3	1	119.0	649	12
Lewis	3513XF ↗	RXF	3.5	R	54.0	11.1	1	128.0	648	13
Asgrow	AG35XF1 § ↗	RXF	3.5	R	53.5	11.0	1	126.0	642	14
Midland Genetics	3392E3 ↗	E3	3.3	R	53.4	11.1	4	124.0	641	15
AgriGold	G3490XF ↗	RXF	3.4	R	53.3	10.9	1	135.3	640	16
Pioneer	P38T76E § ↗	E3	3.8	NA	53.1	11.1	1	137.3	637	17
Golden Harvest	GH3762E3S ↗	E3,ST	3.7	MR	52.9	11.3	2	131.7	635	18
Xitavo	XO 3651E ↗	E3	3.6	R	52.8	11.2	1	125.7	634	19
NK Brand	NK37-Z9XF ↗	RXF	3.7	R	52.8	11.1	1	122.0	634	20
Burrus	3642E ↗	E3	3.6	R	52.6	11.0	1	114.3	631	21
FS HiSOY	37E10 ↗	E3	3.7	R	52.5	11.0	2	129.7	630	22
Dyna-Gro	S37ES52 ↗	E3	3.7	R	52.2	11.1	1	123.7	626	23
NK Brand	NK37-V4E3S ↗	E3,ST	3.7	MR	52.1	11.3	1	133.3	625	24
Lewis	3713XF ↗	RXF	3.7	R	52.1	10.9	1	125.7	625	25
Credenz	CZ 3750GTLL ↗	LLGT27	3.7	R	51.6	11.2	1	133.7	619	26
Golden Harvest	GH3732XF § ↗	RXF	3.7	R	51.4	11.1	1	133.3	617	27
NuTech	35N03E ↗	E3	3.5	R	50.5	11.3	1	123.7	606	29
Xitavo	XO 3341E ↗	E3	3.3	R	50.5	11.3	1	131.7	606	30
AgriGold	G3649E3 ↗	E3	3.6	R	50.3	10.8	1	114.0	604	31
Pioneer	P41T07E CK	E3	4.1	MR	50.7	11.0	1	127.7	608	28
					Averages =	52.0	11.1	1	127.7	625
					LSD (0.10) =	3.9	ns	ns		
					LSD (0.25) =	2.1	ns	ns		
					C.V. =	7.2				
					Historic yield: 55.12 bu/a, 3 yr(s)					

William Schelp

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william.schelp@firstseedtests.com, (573) 819-7968

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.02 Prices: GMO = \$12.00; non-GMO = \$12.00

Report Date: 10/20/2021

† 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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Full-Season Test	Maturity Group 3.8 - 4.3 S2021MONO01b
Top 30 of 45	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Fulltime Nxt, Armezon, Atrazine 4l
SOIL DESCRIPTION:	Haynie silt loam, moderately drained, non-irrigated
SOIL CONDITION:	low P, very high K, 7.9 pH, 1.5% OM, 14.8 CEC
TILLAGE/CULTIVATION:	Conventional W/O Fall Till
PEST MANAGEMENT:	Authority Elite, Liberty
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	Jun 7 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 19 129.3 /A

TEST COMMENTS:

A good soaker on June 25 was followed by a dry bias for an extended period during the yield making months of July and August. July and almost half of August never received daily rainfall of more than 1/2 in. July was 3.7" below average. Quite possibly this put downward pressure on yield potential. August 13th did bring much needed precipitation with a 2.4" rain event. There were no signs of herbicide damage, no weed pressure, and no sign of disease pressure. This uniform trial site facilitated a very good test.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
FS HiSOY	39E10 ↗	E3	3.9	R	58.5	11.0	1	135.7	702	1
Credenz	CZ 3930GTLL ↗	LLGT27	3.9	R	58.3	11.1	1	131.7	700	2
Golden Harvest	GH3952XF ↗	RXF	3.9	R	57.4	11.4	1	122.0	689	3
Asgrow	AG40XF1 § ↗	RXF	4.0	R	57.2	11.2	1	131.7	686	4
Hoegemeyer	4081 SE ↗	E3,ST	4.0	R	56.9	11.0	1	131.3	683	5
Xitavo	XO 3922E ↗	E3	3.9	R	56.7	11.2	1	139.3	680	6
Burrus	3859E ↗	E3	3.8	R	56.1	11.2	1	118.0	673	7
Xitavo	XO 3861E ↗	E3,ST	3.8	R	55.9	10.9	1	132.0	671	8
NK Brand	NK39-A1XF § ↗	RXF	3.9	R	55.4	11.2	1	125.7	665	9
AgriGold	G3724XF ↗	RXF	3.7	R	55.1	11.2	2	122.0	661	10
NK Brand	NK40-U7E3 ↗	E3	4.0	R	54.9	11.1	1	131.7	659	11
NuTech	39N05E ↗	E3	3.9	R	54.9	11.0	1	124.0	659	12
Midland Genetics	3999E3 ↗	E3	3.9	R	54.4	11.0	1	132.0	653	13
Hoegemeyer	3921 E ↗	E3	3.9	R	54.2	10.9	1	130.0	650	14
NuTech	41N03E ↗	E3	4.1	R	54.0	11.1	1	121.7	648	15
Stine	39EC22 § ↗	E3	3.9	R	53.7	11.0	1	131.7	644	16
Golden Harvest	GH4072E3 ↗	E3	4.0	MR	53.6	11.1	1	120.3	643	17
Xitavo	XO 4132E ↗	E3	4.1	R	53.3	11.2	1	122.0	640	18
Asgrow	AG41XF2 § ↗	RXF	4.1	R	53.0	11.2	2	122.0	636	19
NuTech	39N04E ↗	E3	3.9	R	52.4	11.1	1	119.0	629	20
Midland Genetics	4260E3S ↗	E3,ST	4.2	MR	52.2	11.1	1	126.0	626	21
FS HiSOY	39F10 ↗	RXF	3.9	R	51.7	11.1	1	128.0	620	22
Lewis	4304XF ↗	RXF	4.3	R	51.3	10.9	1	131.0	614	23
FS HiSOY	40F10 ↗	RXF	4.0	R	51.2	11.0	1	122.0	614	24
Donmario	DM3932E ↗	E3	3.9	R	50.6	11.0	1	143.3	607	25
AgriGold	G4094XF ↗	RXF	4.0	R	50.5	11.0	4	118.0	606	26
Golden Harvest	GH3902E3S § ↗	E3,ST	3.9	R	50.2	11.1	6	137.3	602	27
FS HiSOY	42E10 ↗	E3,ST	4.2	R	49.9	11.2	1	129.3	599	28
AgriGold	G3957E3 ↗	E3	3.9	R	49.7	11.0	1	130.0	596	29
NuTech	43N04E ↗	E3	4.3	R	49.4	11.1	1	141.0	593	30
Pioneer	P41T07E CK	E3	4.1	MR	46.2	11.2	1	130.0	554	39
					Averages =	51.3	11.1	1	129.3	616
					LSD (0.10) =	4.5	ns	1		
					LSD (0.25) =	2.4	ns	1		
					C.V. =	8.4				
					Historic yield: 55.12 bu/a, 3 yr(s)					

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Report Date: 10/20/2021

† 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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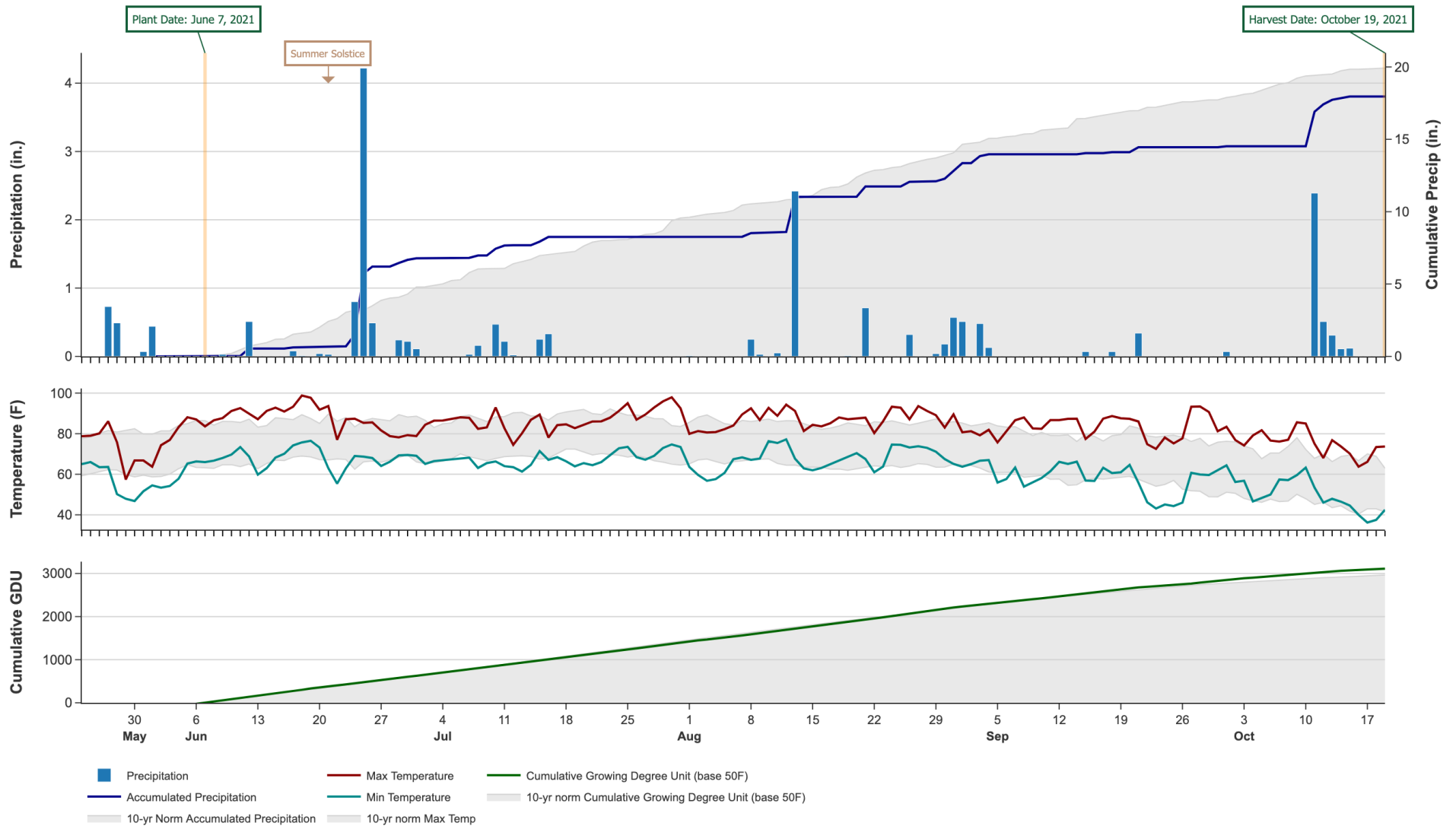
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2021 Soybeans - Missouri North [MONO]

Weather Conditions Summary at ST. JOSEPH, MO

Weather Data Retrieved: 10/20/2021

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	1.3 2.1 (-0.8)	7.1 5.3 (+1.8)	1.6 5.3 (-3.7)	4.6 4.5 (+0.1)	1.6 3.7 (-2.1)	3.5 2.2 (+1.3)	19.7 23.1 (-3.4)
GDU Normal (Diff)	125 162 (-37)	738 753 (-15)	804 836 (-32)	805 773 (+31)	622 561 (+60)	277 196 (+80)	3371 3283 (+87)



* 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 - Missouri North [MONO]

Early-Season Test Products (44 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
AgriGold	G3490XF	RXF	R	3.4	ASfi,SA
AgriGold	G3630XF	RXF	R	3.6	ASfi,SA
AgriGold	G3649E3	E3	R	3.6	ASfi,SA
AgriGold	G3755E3	E3	R	3.7	ASfi,SA
Asgrow	AG35XF1 §	RXF	R	3.5	ACi
Burrus	3642E	E3	R	3.6	NA
Credenz	CZ 3750GTLL	LLGT27	R	3.7	PV,IL,OB
Donmario	DM3756E	E3	R	3.7	BPS-SDS
Donmario	DM37F51	RXF	NA	3.7	BPS-SDS
Dyna-Gro	S35XF72	RXF	R	3.5	EQV,SA
Dyna-Gro	S37ES52	E3	R	3.7	EQV,SA
Dyna-Gro	S37XF42	RXF	MR	3.7	EQV,SA
FS HiSOY	35E10	E3	R	3.5	ACi,B-200
FS HiSOY	35F10	RXF	R	3.5	ACi,B-200
FS HiSOY	37E10	E3	R	3.7	ACi,B-200
FS HiSOY	37F00	RXF	R	3.7	ACi,B-200
Golden Harvest	GH3442XF	RXF	MR	3.4	CMBV,SA
Golden Harvest	GH3512E3S	E3,ST	MR	3.5	CMBV,SA
Golden Harvest	GH3732XF §	RXF	R	3.7	CMBV,SA
Golden Harvest	GH3762E3S	E3,ST	MR	3.7	CMBV,SA
Hoegemeyer	3421 SE	E3,ST	R	3.4	Lum,Lu,IL
Hoegemeyer	3591 E	E3	R	3.5	Lum,Lu,IL
Lewis	3325XF	RXF	R	3.3	ACi
Lewis	3513XF	RXF	R	3.5	ACi
Lewis	3623XF	RXF	R	3.6	ACi
Lewis	3713XF	RXF	R	3.7	ACi
Midland Genetics	3392E3	E3	R	3.3	Edge-SST
Midland Genetics	3522XF	RXF	MR	3.5	Edge-SST
Midland Genetics	3591E3	E3	MR	3.5	Edge-SST
Midland Genetics	3722XFS	RXF	MR	3.7	Edge-SST
NK Brand	NK37-V4E3S	E3,ST	MR	3.7	CMBV,SA
NK Brand	NK37-Z9XF	RXF	R	3.7	CMBV,SA
NuTech	34N06E	E3	R	3.4	Lum,Lu,IL
NuTech	35N03E	E3	R	3.5	Lum,Lu,IL
NuTech	37N01E	E3	R	3.7	Lum,Lu,IL
Pioneer	P38T05E §	E3	R	3.8	NA
Pioneer	P38T76E §	E3	NA	3.8	NA
Pioneer	P41T07E CK	E3	MR	4.1	NA
Stine	35EE32 §	E3	R	3.5	SFI
Stine	36EB32 §	E3	R	3.6	NA
Xitavo	XO 3341E	E3	R	3.3	PV,IL,OB
Xitavo	XO 3402E	E3	R	3.4	PV,IL,OB

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Xitavo	XO 3651E	E3	R	3.6	PV,IL,OB
Xitavo	XO 3752E	E3,ST	R	3.7	PV,IL,OB

* 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 - Missouri North [MONO]

Full-Season Test Products (45 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
AgriGold	G3724XF	RXF	R	3.7	ASfi,SA
AgriGold	G3957E3	E3	R	3.9	ASfi,SA
AgriGold	G4094XF	RXF	R	4.0	ASfi,SA
Asgrow	AG40XF1 §	RXF	R	4.0	ACi,IL
Asgrow	AG41XF2 §	RXF	R	4.1	ACi,IL
Burrus	3859E	E3	R	3.8	Treated
Credenz	CZ 3930GTLL	LLGT27	R	3.9	PV,IL,OB
Credenz	CZ 4241GTLL	LLGT27	NA	4.2	PV,IL,OB
Donmario	DM3932E	E3	R	3.9	BPS-SDS
Donmario	DM39F62	RXF	NA	3.9	CMBV
Donmario	DM40E62	E3	NA	4.0	CMBV
Dyna-Gro	S39XF41	RXF,ST	MR	3.9	EQV,SA
Dyna-Gro	S40XF21S	RXF,ST	R	4.0	EQV,SA
Dyna-Gro	S41EN72	E3	R	4.1	EQV,SA
FS HiSOY	39E10	E3	R	3.9	Treated
FS HiSOY	39F10	RXF	R	3.9	ACi,B-200
FS HiSOY	40F10	RXF	R	4.0	ACi,B-200
FS HiSOY	42E10	E3,ST	R	4.2	Treated
Golden Harvest	GH3902E3S §	E3,ST	R	3.9	CMBV,SA
Golden Harvest	GH3952XF	RXF	R	3.9	CMBV,SA
Golden Harvest	GH4072E3	E3	MR	4.0	CMBV,SA
Golden Harvest	GH4392XF	RXF	MR	4.3	CMBV,SA
Hoegemeyer	3921 E	E3	R	3.9	Lum,Lu,IL
Hoegemeyer	4081 SE	E3,ST	R	4.0	Lum,Lu,IL
Lewis	3910XF	RXF	R	3.9	ACi
Lewis	4004XF	RXF	R	4.0	ACi
Lewis	4211XF	RXF	R	4.2	ACi
Lewis	4304XF	RXF	R	4.3	ACi
Midland Genetics	3921XFS	RXF	R	3.9	Edge-SST
Midland Genetics	3999E3	E3	R	3.9	Edge-SST
Midland Genetics	4221XFS	RXF	MR	4.2	Edge-SST
Midland Genetics	4260E3S	E3,ST	MR	4.2	Edge-SST
NK Brand	NK39-A1XF §	RXF	R	3.9	CMBV,SA
NK Brand	NK40-U7E3	E3	R	4.0	CMBV,SA
NuTech	39N04E	E3	R	3.9	Lum,Lu,IL
NuTech	39N05E	E3	R	3.9	Lum,Lu,IL
NuTech	41N03E	E3	R	4.1	Lum,Lu,IL
NuTech	43N04E	E3	R	4.3	Lum,Lu,IL
Pioneer	P41T07E CK	E3	MR	4.1	NA
Stine	39EC22 §	E3	R	3.9	SFI
Stine	40EC20 §	E3	R	4.0	SFI
Xitavo	XO 3861E	E3,ST	R	3.8	PV,IL,OB

Company/Brand	Brand/Product	Technology	SCN	RM	Seed Treat.
Xitavo	XO 3922E	E3	R	3.9	PV,IL,OB
Xitavo	XO 4132E	E3	R	4.1	PV,IL,OB
Xitavo	XO 4371E	E3	R	4.3	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®
RXF	Roundup Ready 2 XtendFlex®
ST	Sulfonylurea tolerant

Soybeans Seed Treatments*

NA	Not Available
ACi	Acceleron® Standard Insecticide-Fungicide
ACi,B-200	Acceleron® Standard Insecticide-Fungicide, B-200 SAT
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
ASfi,SA	AgriShield Max with Saltro®
BPS-SDS	Burrus PowerShield® SDS
CMBV	CruiserMaxx® Beans, Vibrance®
CMBV,SA	Cruisermaxx® Beans, Vibrance®, Saltro®
Edge-	Cruiser®, Apron XL®, Maxim®, Dynasty®, Mertect®,
SST	Optimize®, Saltro® (Midland Genetics)
EQV,SA	Equity VIP, Saltro®
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
PV,IL,OB	Poncho®/Votivo®, ILeVO, Obvius Plus
SFI	Stine XP F&I
Treated	Treated, unspecified

* Seed treatments may include unspecified plant health promoting components.