

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

2021 Soybeans Top 30 Harvest Report

Missouri North [MONO] MARYVILLE, MO

Thummel Enterprises, Inc., Jeff & Deb Thummel, Nodaway County, MO

Early-Season Test	Maturity Group 3.2 - 3.7 S2021MONO02a
Top 30 of 44	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Resicore, Callisto, Roundup, Atrazine
SOIL DESCRIPTION:	Colo silty clay loam, moderately drained, non-irrigated
SOIL CONDITION:	high P, medium K, 6.3 pH, 3.2% OM, 18.2 CEC
TILLAGE/CULTIVATION:	No-Till
PEST MANAGEMENT:	Zidua Pro, Glyphosate, Liberty, Dual, Cover XI, And Leverage 360
FERTILITY - Applied N:	15 sulfur
Applied N-P-K (units):	0-60-100
SEEDED - RATE - ROW:	Jun 6 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 17 121.7 /A

TEST COMMENTS:

Very good soil conditions at planting into this no-till site. Beans emerged evenly and quickly. There was noticeable consistency across both tests during post-emerge herbicide application. Rainfall was heavily weighed on the front-end of the growing season. Above-average June rainfall was followed by below-average monthly totals through harvest ending the growing season about 6" below normal. There were no signs of herbicide damage, no weed pressure, and no sign of disease pressure. Some green stems made for slightly tougher harvest of the full-season test. The host farmer had a field average of 73 bu/A on his surrounding field of April planted beans. Top-notch test with great yields to boot.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Midland Genetics	3522XF ↗	RXF	3.5	MR	71.8	11.8	4	126.0	862	1
Midland Genetics	3591E3 ↗	E3	3.5	MR	69.3	12.0	4	116.0	832	2
NuTech	35N03E ↗	E3	3.5	R	69.2	12.1	5	122.0	830	3
Burrus	3642E ↗	E3	3.6	R	69.0	12.1	2	130.0	828	4
Dyna-Gro	S35XF72 ↗	RXF	3.5	R	68.1	11.8	2	124.0	817	5
Donmario	DM3756E ↗	E3	3.7	R	68.0	11.7	6	123.7	816	6
FS HiSOY	35E10 ↗	E3	3.5	R	67.9	11.8	12	124.0	815	7
Stine	36EB32 § ↗	E3	3.6	R	67.9	12.3	5	122.3	815	8
AgriGold	G3755E3 ↗	E3	3.7	R	67.8	12.3	5	122.0	814	9
AgriGold	G3490XF ↗	RXF	3.4	R	67.5	11.8	2	116.0	810	10
Xitavo	XO 3651E ↗	E3	3.6	R	67.5	12.2	3	112.7	810	11
CredeNZ	CZ 3750GTLL ↗	LLGT27	3.7	R	67.5	12.6	4	128.0	810	12
Dyna-Gro	S37XF42 ↗	RXF	3.7	MR	67.3	11.9	2	104.7	808	13
Hoegemeyer	3591 E ↗	E3	3.5	R	67.2	12.0	4	128.0	806	14
Midland Genetics	3392E3 ↗	E3	3.3	R	67.1	12.0	7	118.0	805	15
FS HiSOY	37E10 ↗	E3	3.7	R	67.0	11.8	7	126.0	804	16
Donmario	DM37F51 ↗	RXF	3.7	NA	66.6	11.8	6	129.7	799	17
NuTech	34N06E ↗	E3	3.4	R	66.0	12.0	7	124.0	792	18
Asgrow	AG35XF1 § ↗	RXF	3.5	R	65.9	11.9	1	114.3	791	19
Golden Harvest	GH3442XF ↗	RXF	3.4	MR	65.6	11.8	10	122.0	787	20
AgriGold	G3649E3 ↗	E3	3.6	R	65.6	11.9	2	114.3	787	21
Lewis	3325XF ↗	RXF	3.3	R	65.4	11.8	1	112.3	785	22
Golden Harvest	GH3512E3S ↗	E3,ST	3.5	MR	65.4	12.4	19	125.7	785	23
Xitavo	XO 3402E ↗	E3	3.4	R	65.2	11.9	5	112.0	782	24
Dyna-Gro	S37ES52 ↗	E3	3.7	R	65.0	11.9	5	112.3	780	25
Pioneer	P38T05E § ↗	E3	3.8	R	64.9	11.7	1	131.7	779	26
Lewis	3513XF ↗	RXF	3.5	R	64.8	11.9	3	118.0	778	27
NK Brand	NK37-Z9XF ↗	RXF	3.7	R	64.7	11.8	3	129.7	776	28
Xitavo	XO 3752E ↗	E3,ST	3.7	R	64.5	11.9	10	112.3	774	29
Pioneer	P38T76E § ↗	E3	3.8	NA	64.5	11.9	3	120.0	774	30
Pioneer	P41T07E CK	E3	4.1	MR	57.7	12.5	2	116.3	692	44
					Averages =	65.5	12.0	6	121.7	786
					LSD (0.10) =	2.8	0.3	5		
					LSD (0.25) =	1.5	0.1	3		
					C.V. =	4.0				
					Historic yield: 59.1 bu/a, 1 yr(s)					

William Schelp

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

Report Date: 10/19/2021

† 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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Missouri North [MONO] MARYVILLE, MO

Thummel Enterprises, Inc., Jeff & Deb Thummel, Nodaway County, MO

Full-Season Test Maturity Group **3.8 - 4.3**
S2021MONO02b

Top 30 of 45 For Gross Income
(Sorted by Yield)
Average of (3) Replications

PREV. CROP/HERB: Corn / Resicore, Callisto,
Roundup, Atrazine

SOIL DESCRIPTION: Colo silty clay loam, moderately
drained, non-irrigated

SOIL CONDITION: high P, medium K, 6.3 pH, 3.2%
OM, 18.2 CEC

TILLAGE/CULTIVATION: No-Till

PEST MANAGEMENT: Zidua Pro, Glyphosate, Liberty,
Dual, Cover XI, And Leverage
360

FERTILITY - Applied N: 15 sulfur

Applied N-P-K (units): 0-60-100

SEEDED - RATE - ROW: Jun 6 140.0 /A 30" spacing

HARVESTED - STAND: Oct 17 121.7 /A

TEST COMMENTS:

Very good soil conditions at planting into this no-till site. Beans emerged evenly and quickly. There was noticeable consistency across both tests during post-emerge herbicide application. Rainfall was heavily weighed on the front-end of the growing season. Above-average June rainfall was followed by below-average monthly totals through harvest ending the growing season about 6" below normal. There were no signs of herbicide damage, no weed pressure, and no sign of disease pressure. Some green stems made for slightly tougher harvest of the full-season test. The host farmer had a field average of 73 bu/A on his surrounding field of April planted beans. Top-notch test with great yields to boot.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
AgriGold	G3957E3 ↗	E3	3.9	R	70.7	12.7	2	108.3	848	1
NuTech	39N04E ↗	E3	3.9	R	69.6	12.8	2	118.0	835	2
Asgrow	AG41XF2 § ↗	RXF	4.1	R	68.6	12.8	3	114.0	823	3
Xitavo	XO 3861E ↗	E3,ST	3.8	R	67.0	12.2	1	118.3	804	4
Burrus	3859E ↗	E3	3.8	R	66.5	12.1	1	128.0	798	5
AgriGold	G3724XF ↗	RXF	3.7	R	66.4	12.7	5	120.0	797	6
FS HiSOY	39E10 ↗	E3	3.9	R	66.0	11.8	2	125.7	792	7
Stine	39EC22 § ↗	E3	3.9	R	65.2	13.2	2	122.3	782	8
Hoegemeyer	3921 E ↗	E3	3.9	R	65.1	12.7	1	128.0	781	9
Midland Genetics	4260E3S ↗	E3,ST	4.2	MR	64.0	13.0	4	118.0	768	10
NK Brand	NK39-A1XF § ↗	RXF	3.9	R	63.4	12.1	1	114.3	761	11
NuTech	43N04E ↗	E3	4.3	R	63.3	13.2	22	126.0	759	12
Golden Harvest	GH4072E3 ↗	E3	4.0	MR	63.3	13.1	2	133.7	759	13
Xitavo	XO 3922E ↗	E3	3.9	R	63.2	11.8	1	120.3	758	14
Dyna-Gro	S41EN72 ↗	E3	4.1	R	63.0	12.6	18	128.0	756	15
Credenz	CZ 3930GTLL ↗	LLGT27	3.9	R	62.9	12.2	4	126.0	755	16
NuTech	41N03E ↗	E3	4.1	R	62.9	12.7	1	123.7	755	17
Lewis	4004XF ↗	RXF	4.0	R	62.7	12.1	1	118.0	752	18
Xitavo	XO 4132E ↗	E3	4.1	R	62.4	12.2	16	124.0	749	19
Golden Harvest	GH3902E3S § ↗	E3,ST	3.9	R	62.4	12.4	14	120.0	749	20
Lewis	4304XF ↗	RXF	4.3	R	62.2	12.0	6	114.3	746	21
Asgrow	AG40XF1 § ↗	RXF	4.0	R	62.1	11.9	11	118.0	745	22
Donmario	DM40E62 ↗	E3	4.0	NA	62.0	14.4	7	124.0	742	23
FS HiSOY	39F10 ↗	RXF	3.9	R	61.6	12.0	4	118.0	739	24
Golden Harvest	GH3952XF ↗	RXF	3.9	R	61.6	11.9	2	126.0	739	25
Credenz	CZ 4241GTLL ↗	LLGT27	4.2	NA	61.2	12.1	2	124.0	734	26
AgriGold	G4094XF ↗	RXF	4.0	R	61.0	12.2	9	114.7	732	27
Hoegemeyer	4081 SE ↗	E3,ST	4.0	R	60.7	12.0	9	118.0	728	28
NuTech	39N05E ↗	E3	3.9	R	60.6	12.0	1	118.0	727	29
FS HiSOY	40F10 ↗	RXF	4.0	R	60.3	12.2	14	131.7	724	31
Pioneer	P41T07E CK	E3	4.1	MR	60.6	12.4	1	116.0	727	30
					Averages =	61.1	12.5	7	121.7	733
					LSD (0.10) =	3.7	0.7	7		
					LSD (0.25) =	2.0	0.4	4		
					C.V. =	5.8				
William Schelp					Historic yield: 59.1 bu/a, 1 yr(s)					
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: 10/19/2021

† 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

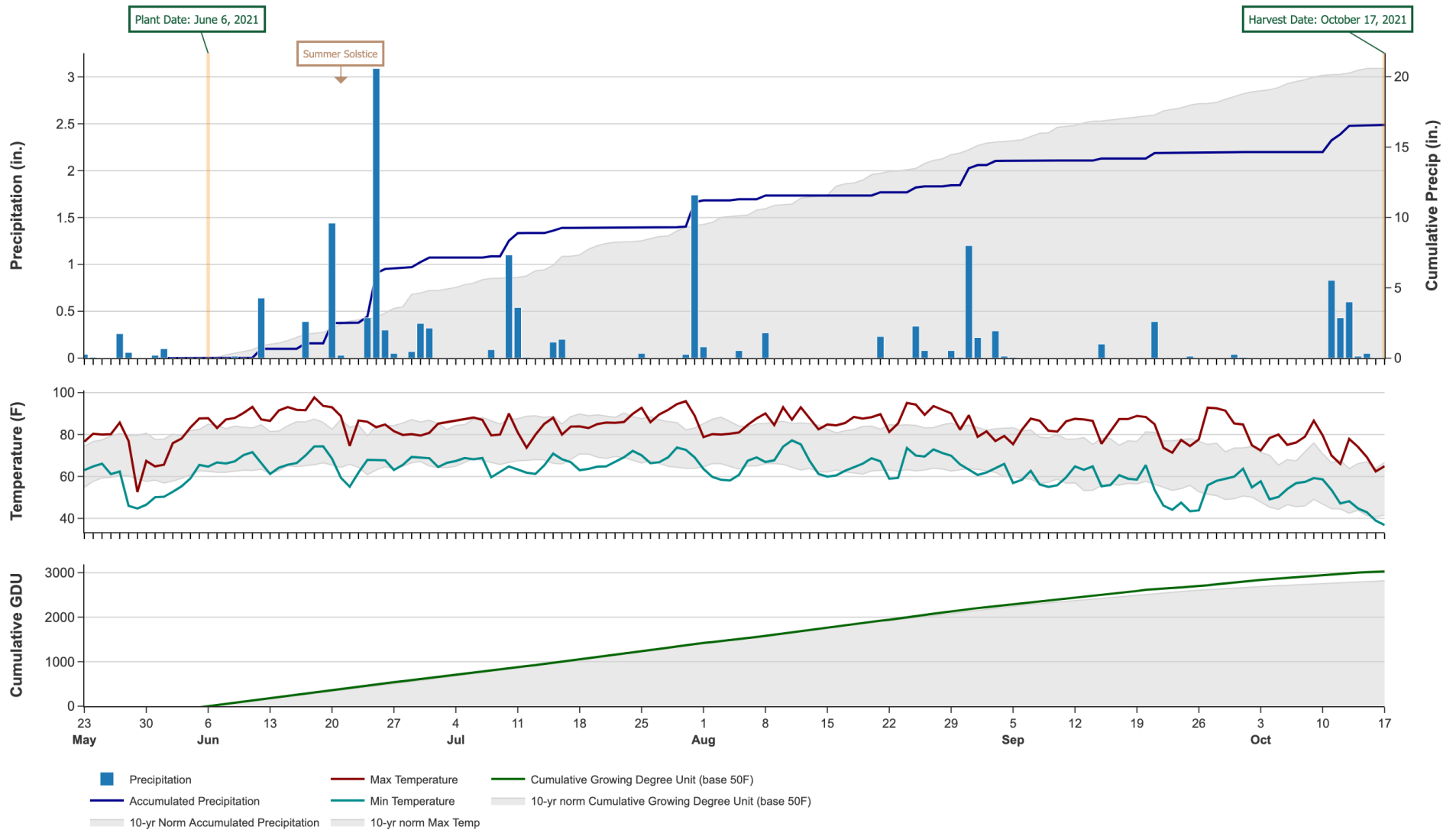
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2021 Soybeans - Missouri North [MONO]

Weather Conditions Summary at MARYVILLE, MO

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	0.4 2.3 (-1.9)	6.9 5.6 (+1.3)	4.3 4.7 (-0.5)	2.4 5.4 (-3.0)	1.1 3.8 (-2.7)	1.9 2.0 (-0.0)	17.1 23.9 (-6.8)
GDU Normal (Diff)	140 166 (-26)	723 702 (+20)	789 811 (-22)	784 744 (+39)	599 520 (+78)	243 160 (+82)	3278 3106 (+171)



* 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

* 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

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.