

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

2022 Soybeans Top 30 Harvest Report

Missouri Central [MOCE] PORTAGE DES SIOUX, MO
Matt Neustadt, St. Charles County, MO

Early-Season Test	Maturity Group 3.4 - 3.9 S2022MOCE04a
Top 30 of 36	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Anthem Max, Cavallo, Atrazine
SOIL DESCRIPTION:	Sioux loam, well drained, non- irrigated
SOIL CONDITION:	very high P, very high K, 6.0 pH, 2.5% OM, 16.0 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Zidua Pro, Liberty
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 16 140.0 /A 30" spacing
HARVESTED - STAND:	Nov 4 127.6 /A

TEST COMMENTS:

The soil profile stayed saturated for two weeks after planting. Then June turned dry and was 3" short of normal precipitation. Then the weather shifted to a wet bias in July and August (rainfall totaled over 10") and vegetative growth was abundant. Plants were tall at harvest. Many measured around 48" with most in the 42"-54" range. There was some modest lodging, but it did not negatively affect harvest efficiency. There was some evidence of sudden death syndrome (SDS). A good trial overall.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Midland Genetics	38X63 ↗	RXF,ST	3.7	MR	74.9	9.8	17	122.0	1030	1
FS HiSOY	HS 37E10 ↗	E3,ST	3.7	R	73.9	9.8	20	124.0	1016	2
Dyna-Gro	S37ES52 ↗	E3,ST	3.7	R	72.2	10.0	19	133.3	993	3
Midland Genetics	3742 E3S ↗	E3,ST	3.7	R	71.9	9.9	17	130.0	989	4
Burrus	3886F ↗	RXF	3.8	R	71.3	10.0	7	122.0	980	5
NuTech	39N07E ↗	E3	3.9	R	71.1	10.2	7	133.5	976	6
DONMARIO	DM3932E ↗	E3	3.9	R	69.9	10.0	18	127.7	961	7
AgVenture	AV39Y3E ↗	E3	3.9	MR	69.1	9.3	9	129.7	950	8
Asgrow	AG39XF3 § ↗	RXF	3.9	R	69.0	9.5	17	122.0	949	9
Xitavo	XO 3861E ↗	E3	3.8	R	67.2	9.5	6	130.0	924	10
Golden Harvest	GH3762E3S § ↗	E3,ST	3.7	MR	67.0	10.6	14	135.7	921	11
Xitavo	XO 3651E ↗	E3	3.6	R	66.9	10.2	14	135.3	920	12
Dyna-Gro	S38XF22S ↗	RXF,ST	3.8	MR	66.6	10.1	23	129.7	916	13
NuTech	37N01E ↗	E3	3.7	R	66.1	9.7	4	124.0	909	14
NK Brand	NK39-T5E3S ↗	E3,ST	3.9	R	66.1	10.2	20	122.0	909	15
Midland Genetics	3522XF ↗	RXF	3.5	MR	66.0	9.5	5	116.0	908	16
NuTech	35N03E ↗	E3	3.5	R	65.7	10.0	20	126.0	903	18
Lewis	3834XF ↗	RXF	3.8	R	65.3	10.0	14	137.3	898	19
Golden Harvest	GH3902E3S ↗	E3,ST	3.9	R	65.0	10.1	22	122.0	894	20
Midland Genetics	39E83 ↗	E3,ST	3.9	MR	64.6	10.0	32	132.0	888	21
Dyna-Gro	S37XF33 ↗	RXF	3.7	MR	64.4	9.6	26	124.0	886	22
NK Brand	NK38-D2E3S ↗	E3,ST	3.8	R	64.3	10.2	32	139.3	884	23
Lewis	3910XF ↗	RXF	3.9	R	63.7	10.2	14	108.3	876	24
FS HiSOY	HS 38F20 ↗	RXF	3.8	R	63.1	9.8	20	137.3	868	25
Pioneer	P37T33E § ↗	E3	3.7	MR	62.7	9.5	7	131.7	862	26
DONMARIO	DM37E43S ↗	E3,ST	3.7	R	62.3	10.3	14	119.7	857	27
AgVenture	AV38V3E ↗	E3	3.8	MR	62.3	10.1	15	124.0	857	28
Xitavo	XO 3752E ↗	E3	3.7	R	62.2	10.2	25	129.3	855	29
Stine	38EF32 § ↗	E3	3.8	R	61.7	10.1	28	131.7	848	30
FS HiSOY	HS 38E20 ↗	E3,ST	3.8	R	59.9	10.6	26	124.0	824	31
PIONEER	P42A84E CK	E3	4.2	R	65.9	10.6	15	124.0	906	17
					Averages =	65.2	10.0	16	127.6	898
					LSD (0.10) =	4.1	0.4	9		
					LSD (0.25) =	2.1	0.2	5		
					C.V. =	5.9				
					Historic yield: 62.48 bu/a, 3 yr(s)					

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Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.035 Prices: GMO = \$13.75

Report Date: 11/09/2022

† 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. ↗ Links to full product yield results at www.firstseedtests.com

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Full-Season Test	Maturity Group 4.0 - 4.5 S2022MOCE04b
Top 30 of 32	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Anthem Max, Cavallo, Atrazine
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SOIL CONDITION:	very high P, very high K, 6.0 pH, 2.5% OM, 16.0 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Zidua Pro, Liberty
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 16 140.0 /A 30" spacing
HARVESTED - STAND:	Nov 4 122.7 /A

TEST COMMENTS:

The soil profile stayed saturated for two weeks after planting. Then June turned dry and was 3" short of normal precipitation. Then the weather shifted to a wet bias in July and August (rainfall totaled over 10") and vegetative growth was abundant. Plants were tall at harvest. Many measured around 48" with most in the 42"-54" range. There was some modest lodging, but it did not negatively affect harvest efficiency. There was some evidence of sudden death syndrome (SDS). A good trial overall.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Midland Genetics	4260E3S ↗	E3,ST	4.2	MR	77.1	10.2	3	131.7	1060	1
Golden Harvest	GH4093E3 ↗	E3	4.0	R	74.3	10.3	4	128.0	1022	3
Golden Harvest	GH4155E3 ↗	E3	4.1	MR	74.1	10.1	5	120.3	1019	4
Lewis	4035XF ↗	RXF	4.0	R	73.8	10.2	20	124.3	1015	5
Lewis	4304XF ↗	RXF	4.3	R	73.0	9.9	13	124.3	1004	6
NuTech	40N02E ↗	E3	4.0	R	71.9	10.1	26	120.0	989	7
NK Brand	NK40-P5E3 ↗	E3	4.0	R	71.8	10.4	6	134.0	987	8
Xitavo	XO 4522E ↗	E3	4.5	R	71.7	9.8	6	116.3	986	9
DONMARIO	DM41E73 ↗	E3	4.1	R	71.3	10.5	14	116.0	980	10
Dyna-Gro	S42XF93S ↗	RXF,ST	4.2	MR	71.2	10.2	23	128.0	979	11
NK Brand	NK43-P7E3S § ↗	E3,ST	4.3	R	71.0	10.3	10	126.0	976	12
Stine	44EE20 § ↗	E3	4.4	R	70.3	10.3	11	122.0	967	13
Dyna-Gro	S41EN72 ↗	E3	4.1	R	69.6	9.8	19	122.0	957	14
Xitavo	XO 4132E ↗	E3	4.1	R	68.9	10.2	14	124.0	947	15
AgVenture	AV43V6E ↗	E3	4.3	MR	68.6	9.9	13	130.0	943	16
Lewis	4211XF ↗	RXF,ST	4.2	R	68.2	10.7	12	128.0	938	17
Midland Genetics	4422XF ↗	RXF	4.4	MR	68.0	10.3	20	121.7	935	18
FS HISOY	HS 42F10 ↗	RXF	4.2	R	67.4	10.1	29	132.0	927	19
DONMARIO	DM41F33S ↗	RXF,ST	4.1	R	67.1	10.1	14	120.0	923	20
Midland Genetics	4082E3 ↗	E3	4.0	R	67.1	9.7	5	116.3	923	21
FS HiSOY	HS 43E20 ↗	E3	4.3	R	65.4	10.2	10	112.0	899	22
Lewis	4533XF ↗	RXF	4.5	R	65.3	10.2	7	122.0	898	23
Stine	41EE62 § ↗	E3	4.1	R	65.0	9.7	14	120.0	894	24
NuTech	43N04E ↗	E3	4.3	R	64.9	10.3	14	118.3	892	25
Asgrow	AG40XF1 § ↗	RXF,ST	4.0	R	64.0	10.1	20	120.3	880	26
Asgrow	AG45XF3 § ↗	RXF,ST	4.5	R	63.9	10.4	7	127.7	879	27
NuTech	45N09E ↗	E3	4.5	R	63.1	10.7	20	126.0	868	28
Xitavo	XO 4371E ↗	E3	4.3	R	62.9	10.1	15	126.0	865	29
FS HiSOY	HS 44F20 ↗	RXF	4.4	R	62.8	10.0	14	116.3	864	30
FS HISOY	HS 41E20 ↗	E3	4.1	R	61.2	10.4	22	118.0	842	31
PIONEER	P42A84E CK	E3	4.2	R	75.6	10.3	14	116.0	1040	2
					Averages =	68.4	10.2	14	122.7	940
					LSD (0.10) =	6.4	ns	8		
					LSD (0.25) =	3.3	ns	4		
					C.V. =	8.8	Historic yield: 62.48 bu/a, 3 yr(s)			

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Report Date: 11/09/2022

† 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. ↗ Links to full product yield results at www.firstseedtests.com

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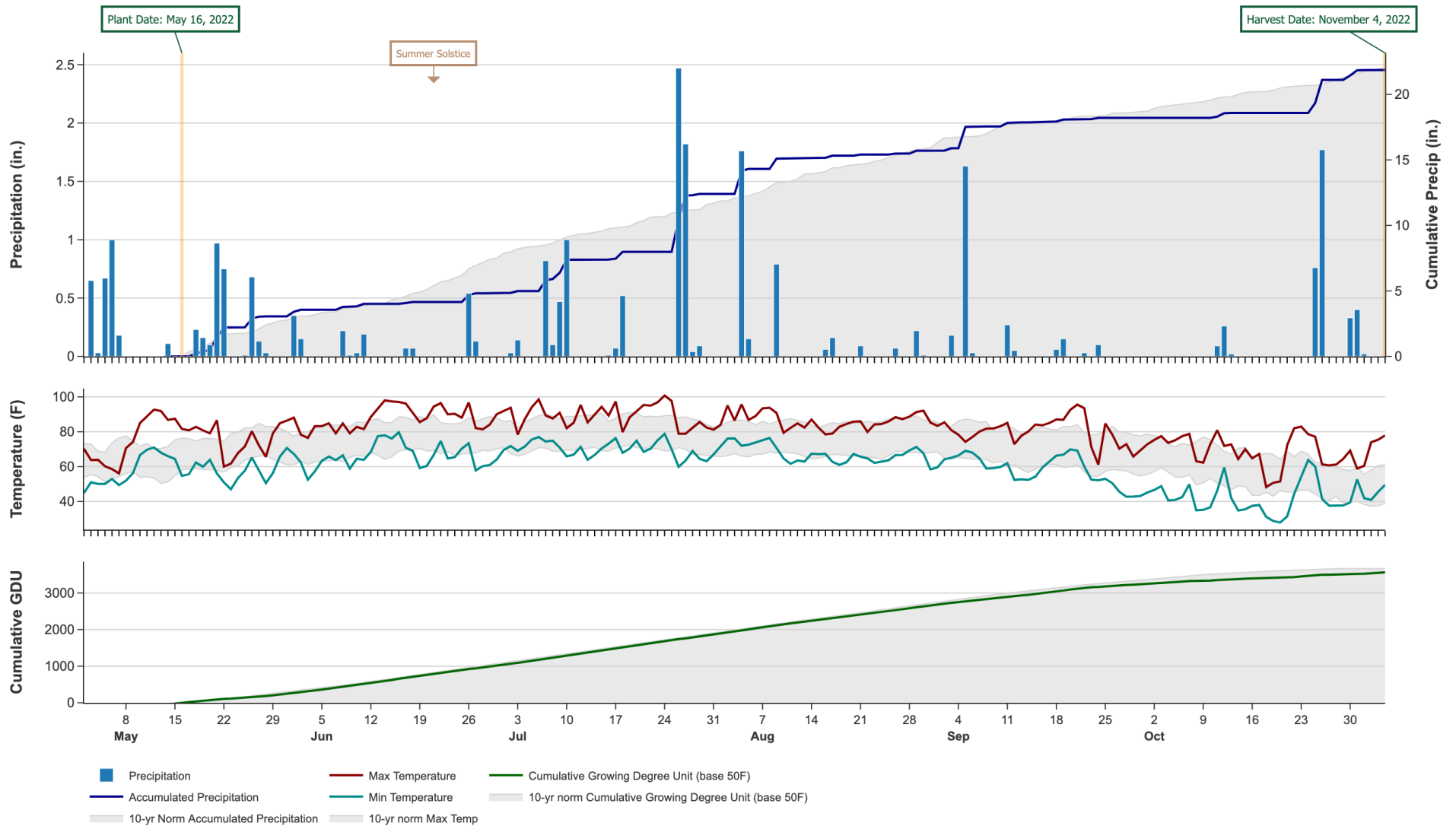
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2022 Soybeans - Missouri Central [MOCE]

Weather Conditions Summary at PORTAGE DES SIOUX, MO

Weather Data Retrieved: 11/09/2022

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct	Nov*	Total
Precip (in) Normal (Diff)	5.7 4.8 (+0.9)	1.8 4.7 (-3.0)	7.6 4.2 (+3.4)	3.3 4.2 (-0.9)	2.5 2.8 (-0.3)	3.6 2.9 (+0.7)	0.0 0.4 (-0.4)	24.5 24.0 (+0.5)
GDU Normal (Diff)	501 506 (-5)	753 764 (-11)	846 853 (-7)	804 807 (-3)	575 636 (-61)	284 296 (-12)	44 0 (+44)	3807 3864 (-57)



* 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.

2022 Soybeans - Missouri Central [MOCE]

Early-Season Test Products (36 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
AgVenture	AV38V3E	E3	MR	3.8	F,I,SA
AgVenture	AV39Y3E	E3	MR	3.9	F,I,SA
Asgrow	AG35XF1 §	RXF	R	3.5	ACi
Asgrow	AG39XF3 §	RXF	R	3.9	ACi,IL
Burrus	3886F	RXF	R	3.8	NA
DONMARIO	DM37E43S	E3,ST	R	3.7	CMBV
DONMARIO	DM3932E	E3	R	3.9	CMBV
Dyna-Gro	S37ES52	E3,ST	R	3.7	EQV,Sa,Va
Dyna-Gro	S37XF33	RXF	MR	3.7	EQV,Sa,Va
Dyna-Gro	S38XF22S	RXF,ST	MR	3.8	EQV,Sa,Va
FS HiSOY	HS 37E10	E3,ST	R	3.7	ACi,SA,B-200
FS HiSOY	HS 37F00	RXF	R	3.7	ACi,SA,B-200
FS HiSOY	HS 38E20	E3,ST	R	3.8	ACi,SA,B-200
FS HiSOY	HS 38F20	RXF	R	3.8	ACi,SA,B-200
Golden Harvest	GH3762E3S §	E3,ST	MR	3.7	CMBV,SA
Golden Harvest	GH3902E3S	E3,ST	R	3.9	CMBV,SA
Lewis	3623XF	RXF	R	3.6	ACi
Lewis	3834XF	RXF	R	3.8	ACi
Lewis	3910XF	RXF	R	3.9	ACi
Midland Genetics	3522XF	RXF	MR	3.5	Edge-SST
Midland Genetics	3742 E3S	E3,ST	R	3.7	Edge-SST
Midland Genetics	38X63	RXF,ST	MR	3.7	Edge-SST
Midland Genetics	39E83	E3,ST	MR	3.9	Edge-SST
NK Brand	NK38-D2E3S	E3,ST	R	3.8	NA
NK Brand	NK39-T5E3S	E3,ST	R	3.9	CMBV,SA
NuTech	34N02E	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
NuTech	39N07E	E3	R	3.9	Lum,Lu,IL
Pioneer	P37T33E §	E3	MR	3.7	NA
Pioneer	P38T76E §	E3	NA	3.8	NA
Pioneer	P42A84E CK	E3	R	4.2	NA
Stine	38EF32 §	E3	R	3.8	SFI
Xitavo	XO 3651E	E3	R	3.6	PV,IL,OB,Rey
Xitavo	XO 3752E	E3	R	3.7	PV,IL,OB,Rey
Xitavo	XO 3861E	E3	R	3.8	PV,IL,OB,Rey

2022 Soybeans - Missouri Central [MOCE]

Full-Season Test Products (32 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
AgVenture	AV41Y5E	E3	MR	4.1	F,I,SA
AgVenture	AV43V6E	E3	MR	4.3	F,I,SA
Asgrow	AG40XF1 §	RXF,ST	R	4.0	ACi
Asgrow	AG45XF3 §	RXF,ST	R	4.5	ACi,IL
DONMARIO	DM41E73	E3	R	4.1	CMBV
DONMARIO	DM41F33S	RXF,ST	R	4.1	CMBV
Dyna-Gro	S41EN72	E3	R	4.1	EQV,Sa,Va
Dyna-Gro	S42XF93S	RXF,ST	MR	4.2	EQV,Sa,Va
FS HiSOY	HS 41E20	E3	R	4.1	ACi,SA,B-200
FS HiSOY	HS 42F10	RXF	R	4.2	ACi,SA,B-200
FS HiSOY	HS 43E20	E3	R	4.3	ACi,SA,B-200
FS HiSOY	HS 44F20	RXF	R	4.4	ACi,SA,B-200
Golden Harvest	GH4093E3 §	E3	R	4.0	CMBV,SA
Golden Harvest	GH4155E3	E3	MR	4.1	CMBV,SA
Lewis	4035XF	RXF	R	4.0	NA
Lewis	4211XF	RXF,ST	R	4.2	ACi
Lewis	4304XF	RXF	R	4.3	ACi
Lewis	4533XF	RXF	R	4.5	ACi
Midland Genetics	4082E3	E3	R	4.0	Edge-SST
Midland Genetics	4260E3S	E3,ST	MR	4.2	Edge-SST
Midland Genetics	4422XF	RXF	MR	4.4	Edge-SST
NK Brand	NK40-P5E3	E3	R	4.0	CMBV,SA
NK Brand	NK43-P7E3S §	E3,ST	R	4.3	CMBV,SA
NuTech	40N02E	E3	R	4.0	Lum,Lu,IL
NuTech	43N04E	E3	R	4.3	Lum,Lu,IL
NuTech	45N09E	E3	R	4.5	Lum,Lu,IL
Pioneer	P42A84E CK	E3	R	4.2	NA
Stine	41EE62 §	E3	R	4.1	SFI
Stine	44EE20 §	E3	R	4.4	SFI
Xitavo	XO 4132E	E3	R	4.1	PV,IL,OB,Rey
Xitavo	XO 4371E	E3	R	4.3	PV,IL,OB,Rey
Xitavo	XO 4522E	E3	R	4.5	PV,IL,OB,Rey

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
RXF	Roundup Ready 2 XtendFlex®
ST	Sulfonylurea tolerant

Soybeans Seed Treatments*

NA	Not Available
ACi	Acceleron® Standard Insecticide-Fungicide
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
ACi,SA,B-200	Acceleron® Standard Insecticide-Fungicide, Salstro®, B-200 SAT
CMBV	CruiserMaxx® Beans, Vibrance®
CMBV,SA	Cruisermaxx® Beans, Vibrance®, Salstro®
Edge-SST	Cruiser®, Apron XL®, Maxim®, Dynasty®, Mertect®, Optimize®, Salstro® (Midland Genetics)
EQV,Sa,Va	Equity VIP, Salstro®, Vayantis
F,I,SA	Fungicide, Insecticide, Salstro®
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
PV,IL,OB,Rey	Poncho®/Votivo®, ILeVO, Obvius Plus, Relenya®
SFI	Stine XP F&I

* Seed treatments may include unspecified plant health promoting components.