

Test by: NewVenture, LLC Ellendale, MN

2022 Soybeans Top 30 Harvest Report

Minnesota North Central [MNNC] WENDELL, MN
Chad Biss, Grant County, MN 56531

Early-Season Test	Maturity Group 0.6 - 0.9 S2022MNNC03a
Top 30 of 34	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Wheat / NA
SOIL DESCRIPTION:	Aazdahl-Formdale-Balaton Clay clay loam, mod. well drained, non-irrigated
SOIL CONDITION:	very high P, high K, 7.6 pH, 5.3% OM, 22.8 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Liberty, Selectmax
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	Jun 8 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 16 130.1 /A

TEST COMMENTS:

A wet and cool spring led to the late plant date. After that, the rain stopped and it was dry. Emergence and the final stand were both very good. The beans were standing well and combined fairly easily. The average for the plot was right in line with the surrounding field. Chad noted, "that was good for three months of drought."

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Hefty	H08XF2 ↗	RXF	0.8	NA	55.8	10.0	0	129.7	809	1
Zinesto	Z0601E ↗	E3	0.6	R	52.9	10.2	0	130.0	767	2
Gold Country	0842XF ↗	RXF	0.8	R	50.7	10.2	0	131.0	735	3
Latham	L 0694 XF ↗	RXF	0.6	R	48.5	10.1	0	130.3	703	4
Latham	L 0945 LLGT27 ↗	LLGT27	0.9	R	48.5	10.2	0	129.3	703	5
Zinesto	Z0903E ↗	E3	0.9	R	48.5	10.5	0	129.0	703	6
Hefty	H09XF3 ↗	RXF	0.9	R	48.4	9.9	0	130.3	702	7
Zinesto	Z0702E ↗	E3	0.7	NA	48.0	10.2	0	129.0	696	8
Thunder	TE7207 ↗	E3	0.7	S	48.0	10.4	1	130.3	696	9
Hefty	H05XF3 ↗	RXF	0.5	R	47.8	10.5	0	131.0	693	10
Asgrow	AG09XF3 § ↗	RXF	0.9	R	47.5	9.9	0	130.3	689	11
Dairyland	DSR-0920E ↗	E3	0.9	R	47.1	10.4	0	130.0	683	12
Hefty	H07XF3 ↗	RXF	0.7	R	46.8	9.9	0	129.3	679	13
Thunder	TX8309N ↗	RXF	0.9	R	46.7	10.3	6	129.3	677	14
Golden Harvest	GH0983XF § ↗	RXF	0.9	R	45.9	9.9	0	130.3	666	15
Zinesto	Z0602E ↗	E3	0.6	NA	45.6	10.3	0	130.7	661	16
Latham	L 0785 E3 ↗	E3	0.7	R	44.2	10.1	0	129.3	641	17
Golden Harvest	GH0693E3 § ↗	E3	0.6	R	44.0	10.0	0	130.7	638	18
Xitavo	XO 0602E ↗	E3	0.6	R	44.0	10.2	0	131.0	638	19
Stine	09EA02 § ↗	E3	0.9	R	43.9	10.2	0	129.7	637	20
Thunder	TE7309N ↗	E3	0.9	R	43.8	10.2	0	130.3	635	21
Golden Harvest	GH0653XF § ↗	RXF	0.6	R	43.8	9.7	0	129.7	635	22
Pioneer	P09T68E § ↗	E3	0.9	NA	43.4	10.1	0	130.3	629	23
Dairyland	DSR-0757E ↗	E3	0.7	S	42.9	9.7	0	130.0	622	25
Thunder	TX8307N ↗	RXF	0.7	R	42.5	9.8	0	129.0	616	26
Xitavo	XO 0993E ↗	E3	0.9	R	41.1	10.4	0	130.3	596	27
Latham	L 0959 E3 ↗	E3	0.9	R	40.3	10.4	0	131.0	584	28
Dyna-Gro	S07EN61 ↗	E3	0.7	R	39.4	9.8	0	130.3	571	29
Golden Harvest	GH0933E3 § ↗	E3	0.9	R	38.5	10.2	0	131.0	558	30
Xitavo	XO 0731E ↗	E3	0.7	R	38.0	9.8	0	130.3	551	31
NK BRAND	NK13-Y4XF CK	RXF	1.3	R	43.3	10.1	0	130.3	628	24
					Averages =	44.5	10.1	0	130.1	645
					LSD (0.10) =	5.8	0.2	1		
					LSD (0.25) =	3.0	0.1	0		
Ed Dahle					C.V. =	12.3				
ed.dahle@firstseedtests.com, (507) 456-6624					Historic yield: 46.55 bu/a, 5 yr(s)					

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.03 Prices: GMO = \$14.50

Report Date: 10/16/2022

† 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 1.0 - 1.5 S2022MNNC03b
Top 30 of 36	For Gross Income (Sorted by Yield) Average of (3) Replications
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SOIL CONDITION:	very high P, high K, 7.6 pH, 5.3% OM, 22.8 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Liberty, Selectmax
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	Jun 8 140.0 /A 30" spacing
HARVESTED - STAND:	Oct 16 129.9 /A

TEST COMMENTS:

A wet and cool spring led to the late plant date. After that, the rain stopped and it was dry. Emergence and the final stand were both very good. The beans were standing well and combined fairly easily. The average for the plot was right in line with the surrounding field. Chad noted, "that was good for three months of drought."

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Zinesto	Z1202E ↗	E3	1.2	NA	44.9	9.9	0	129.0	651	1
Dairyland	DSR-1505E ↗	E3	1.5	R	44.0	10.1	0	131.0	638	2
Xitavo	XO 1212E ↗	E3	1.2	R	43.7	10.0	0	129.3	634	3
Zinesto	Z1101E ↗	E3	1.1	R	43.6	9.9	0	130.3	632	4
Asgrow	AG11XF2 § ↗	RXF	1.1	R	43.3	10.1	0	131.0	628	5
Zinesto	Z1502E ↗	E3	1.5	NA	43.1	10.3	0	130.0	625	6
Xitavo	XO 1133E ↗	E3	1.1	R	42.4	10.1	0	129.3	615	7
Dyna-Gro	S12EN72 ↗	E3	1.2	R	42.4	10.0	0	129.3	615	8
Dairyland	DSR-1121E ↗	E3	1.1	R	42.4	10.2	1	130.0	615	9
Dairyland	DSR-1290E ↗	E3,ST	1.2	R	41.3	9.8	0	129.7	599	10
Dairyland	DSR-1450E ↗	E3,ST	1.4	R	41.1	9.7	0	129.3	596	11
Pioneer	P13T47E § ↗	E3	1.3	NA	40.6	9.9	0	129.7	589	12
Gold Country	1041XF ↗	RXF	1.0	R	40.0	10.1	0	129.3	580	13
Hefty	H15XF2 ↗	RXF	1.5	NA	38.9	10.0	0	131.0	564	14
Thunder	TX8312N ↗	RXF	1.2	R	38.9	9.8	0	129.7	564	15
Thunder	TX8313N ↗	RXF	1.3	R	38.7	10.1	0	130.3	561	16
Hefty	H14XF3 ↗	RXF	1.4	R	38.5	9.9	0	129.0	558	17
Asgrow	AG13XF3 § ↗	RXF	1.3	R	37.9	10.0	0	129.7	550	18
Latham	L 1439 XF ↗	RXF	1.4	R	37.7	9.8	0	128.7	547	19
Stine	15EE32 § ↗	E3	1.5	R	36.7	10.1	0	130.3	532	20
Zinesto	Z1003E ↗	E3	1.0	R	36.7	9.8	0	129.7	532	21
Stine	14EE02 § ↗	E3	1.4	R	36.1	9.7	0	129.0	523	22
Latham	L 1392 E3 ↗	E3	1.3	R	35.8	10.1	0	130.3	519	23
Xitavo	XO 1372E ↗	E3,ST	1.3	R	35.7	9.6	0	129.7	518	24
Thunder	TX8211N ↗	RXF	1.1	R	35.7	10.0	0	130.3	518	25
Latham	L 1452 LLGT27 ↗	LLGT27	1.4	R	35.3	9.8	0	131.0	512	26
Hefty	H10XF1 ↗	RXF	1.0	NA	35.2	9.8	0	131.0	510	27
Latham	L 1558 E3 ↗	E3	1.5	R	34.8	10.1	0	129.0	505	29
Asgrow	AG15XF2 § ↗	RXF	1.5	R	34.5	10.2	1	131.0	500	30
Pioneer	P12T94E § ↗	E3	1.2	NA	34.2	10.0	0	130.3	496	31
NK BRAND	NK13-Y4XF CK	RXF	1.3	R	34.8	9.9	0	129.7	505	28
					Averages =	37.7	9.9	0	129.9	546
					LSD (0.10) =	6.2	0.2	ns		
					LSD (0.25) =	3.2	0.1	ns		
Ed Dahle					C.V. = 15.5		Historic yield: 46.55 bu/a, 5 yr(s)			
ed.dahle@firstseedtests.com, (507) 456-6624										

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.3 Drying = \$0.03 Prices: GMO = \$14.50

Report Date: 10/16/2022

† 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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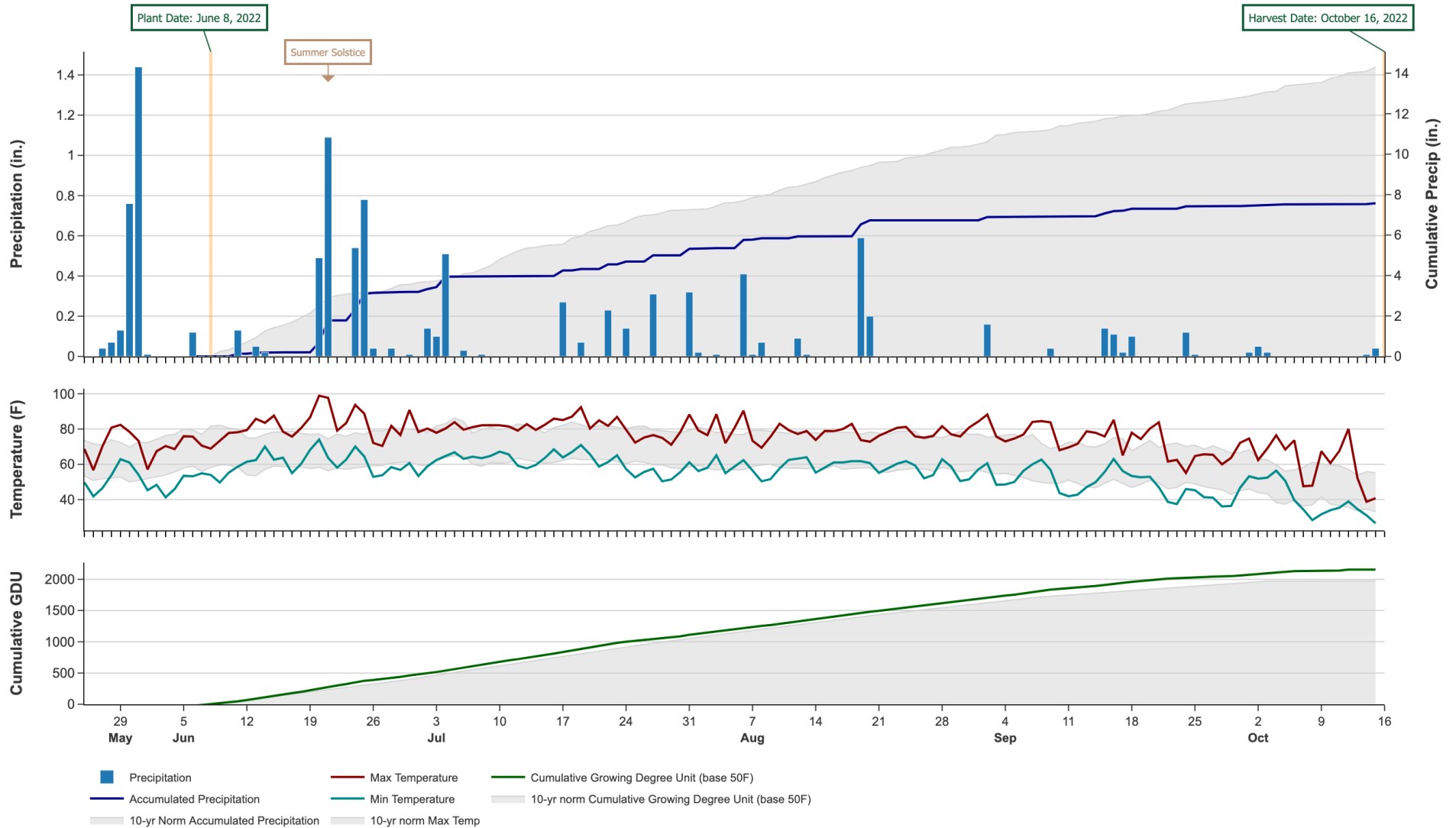
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2022 Soybeans - Minnesota North Central [MNNC]

Weather Conditions Summary at WENDELL, MN

Weather Data Retrieved: 10/16/2022

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	2.4 0.8 (+1.7)	3.3 4.2 (-0.9)	2.1 3.7 (-1.5)	1.4 3.2 (-1.8)	0.7 2.4 (-1.7)	0.1 1.5 (-1.4)	10.1 15.7 (-5.6)
GDU Normal (Diff)	93 83 (+9)	546 531 (+14)	650 652 (-2)	561 549 (+11)	390 344 (+45)	93 27 (+65)	2333 2189 (+143)



* 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 - Minnesota North Central [MNNC]

Early-Season Test Products (34 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Asgrow	AG09XF3 §	RXF	R	0.9	ACi,IL
Dairyland	DSR-0757E	E3	S	0.7	Lum,Lu,IL
Dairyland	DSR-0847E	E3	S	0.8	Lum,Lu,IL
Dairyland	DSR-0920E	E3	R	0.9	Lum,Lu,IL
Dyna-Gro	S07EN61	E3	R	0.7	EQV,Sa,Va
Dyna-Gro	S09EN53	E3	R	0.9	EQV,Sa,Va
Gold Country	0842XF	RXF	R	0.8	ACi,IL
Golden Harvest	GH0653XF §	RXF	R	0.6	CMBV,SA
Golden Harvest	GH0693E3 §	E3	R	0.6	CMBV,SA
Golden Harvest	GH0933E3 §	E3	R	0.9	CMBV,SA
Golden Harvest	GH0983XF §	RXF	R	0.9	CMBV,SA
Hefty	H05XF3	RXF	R	0.5	DST4
Hefty	H07XF3	RXF	R	0.7	DST4
Hefty	H08XF2	RXF	NA	0.8	DST4
Hefty	H09XF3	RXF	R	0.9	DST4
Latham	L 0694 XF	RXF	R	0.6	SS+,SA
Latham	L 0785 E3	E3	R	0.7	SS+,SA
Latham	L 0945 LLGT27	LLGT27	R	0.9	SS+,SA
Latham	L 0959 E3	E3	R	0.9	SS+,SA
NK Brand	NK13-Y4XF CK	RXF	R	1.3	CMBV,SA
Pioneer	P09T68E §	E3	NA	0.9	Lum,Lu,IL
Stine	08EC32 §	E3	R	0.8	SFI
Stine	09EA02 §	E3	R	0.9	SFI
Thunder	TE7207	E3	S	0.7	TFI
Thunder	TE7309N	E3	R	0.9	TFI
Thunder	TX8307N	RXF	R	0.7	TFI
Thunder	TX8309N	RXF	R	0.9	TFI
Xitavo	XO 0602E	E3	R	0.6	PV,IL,OB,Rey
Xitavo	XO 0731E	E3	R	0.7	PV,IL,OB,Rey
Xitavo	XO 0993E	E3	R	0.9	PV,IL,OB,Rey
Zinesto	Z0601E	E3	R	0.6	DST4
Zinesto	Z0602E	E3	NA	0.6	DST4
Zinesto	Z0702E	E3	NA	0.7	DST4
Zinesto	Z0903E	E3	R	0.9	DST4

2022 Soybeans - Minnesota North Central [MNNC]

Full-Season Test Products (36 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Asgrow	AG11XF2 §	RXF	R	1.1	ACi,IL
Asgrow	AG13XF3 §	RXF	R	1.3	ACi
Asgrow	AG15XF2 §	RXF	R	1.5	ACi,IL
Dairyland	DSR-1121E	E3	R	1.1	Lum,Lu,IL
Dairyland	DSR-1290E	E3,ST	R	1.2	Lum,Lu,IL
Dairyland	DSR-1450E	E3,ST	R	1.4	Lum,Lu,IL
Dairyland	DSR-1505E	E3	R	1.5	Lum,Lu,IL
Dyna-Gro	S12EN72	E3	R	1.2	EQV,Sa,Va
Dyna-Gro	S14EN22	E3	R	1.4	EQV,Sa,Va
Gold Country	1041XF	RXF	R	1.0	ACi,IL
Hefty	H10XF1	RXF	NA	1.0	DST4
Hefty	H13XF3	RXF	R	1.3	DST4
Hefty	H14XF3	RXF	R	1.4	DST4
Hefty	H15XF2	RXF	NA	1.5	DST4
Latham	L 1392 E3	E3	R	1.3	SS+,SA
Latham	L 1439 XF	RXF	R	1.4	SS+,SA
Latham	L 1452 LLGT27	LLGT27	R	1.4	SS+,SA
Latham	L 1558 E3	E3	R	1.5	SS+,SA
NK Brand	NK13-Y4XF CK	RXF	R	1.3	CMBV,SA
Pioneer	P10T57E §	E3	NA	1.0	Lum,Lu,IL
Pioneer	P12T94E §	E3	NA	1.2	Lum,Lu,IL
Pioneer	P13T47E §	E3	NA	1.3	Lum,Lu,IL
Stine	14EE02 §	E3	R	1.4	SFI
Stine	15EE32 §	E3	R	1.5	SFI
Thunder	TX8211N	RXF	R	1.1	TFI
Thunder	TX8215N	RXF	R	1.5	TFI
Thunder	TX8312N	RXF	R	1.2	TFI
Thunder	TX8313N	RXF	R	1.3	TFI
Xitavo	XO 1041E	E3	R	1.0	PV,IL,OB,Rey
Xitavo	XO 1133E	E3	R	1.1	PV,IL,OB,Rey
Xitavo	XO 1212E	E3	R	1.2	PV,IL,OB,Rey
Xitavo	XO 1372E	E3,ST	R	1.3	PV,IL,OB,Rey
Zinesto	Z1003E	E3	R	1.0	DST4
Zinesto	Z1101E	E3	R	1.1	DST4
Zinesto	Z1202E	E3	NA	1.2	DST4
Zinesto	Z1502E	E3	NA	1.5	DST4

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,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
CMBV,SA	Cruisermaxx® Beans, Vibrance®, Salto®
DST4	Dominance 4 ST
EQV,Sa,Va	Equity VIP, Salto®, Vayantis
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
PV,IL,OB,Rey	Poncho®/Votivo®, ILeVO, Obvius Plus, Relenya®
SFI	Stine XP F&I
SS+,SA	SoyShield Plus, Salto®
TFI	ThunderStruck F&I (Thunder Seed Inc.)

* Seed treatments may include unspecified plant health promoting components.