

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

2023 Soybeans Top 30 Harvest Report

Iowa Northwest [IANW] EMMETSBURG, IA

Jeff Charlstrom, Clay County, IA

Early-Season Test	Maturity Group 1.9 - 2.4 S2023IANW04a
Top 30 of 30	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Anthem Maxx, Atrazine, Solstice
SOIL DESCRIPTION:	Nicollet clay loam, moderately drained, non-irrigated
SOIL CONDITION:	medium P, medium K, 6.0 pH, 4.5% OM, 22.7 CEC
TILLAGE/CULTIVATION:	Minimum W/ Fall Till
PEST MANAGEMENT:	Authority Edge, Mauler, Liberty 280 SI, Roundup Powermax 3, Outlook, Clethodim 2ec, Lucento, Hero
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 26 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 9 127.8 /A

TEST COMMENTS:

A wet spring delayed planting here and soil moisture was nearly ideal at planting time. The plants emerged quickly. Dry conditions during flowering and pod development did take a toll on varieties at this site, however, a few well-timed showers early in August provided some temporary relief to the moderate drought that had formed. Seed size was all over the place on any given plant with August rain-filled pods with large seeds higher up the plant compared to smaller seeds found in pods set mid-to-lower on the main stem. From planting through Oct 1, this farm was 6.4" below the 10-yr average rainfall. Plants stood very straight at harvest and no lodging was noted.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Xitavo	XO 1822E ↗	E3	1.8	R	73.2	9.4	0	130.0	922	1
FS HiSOY	HS 18F20 ↗	RXF	1.8	R	72.0	9.0	0	130.0	907	2
Asgrow	AG18XF1 § ↗	RXF	1.8	R	70.2	8.9	0	127.3	885	4
Hefty	H18E3 ↗	E3	1.8	R	69.9	9.2	0	127.3	881	5
Xitavo	XO 1632E ↗	E3	1.6	R	69.3	9.2	0	127.3	873	6
Asgrow	AG19XF3 § ↗	RXF	1.9	R	68.6	8.6	0	125.0	864	7
FS HiSOY	HS 15E10 ↗	E3	1.5	R	68.5	9.3	0	130.0	863	8
Stine	20EG02 § ↗	E3	2.0	R	68.2	9.3	0	127.3	859	9
Zinesto	Z1802E ↗	E3	1.8	NA	67.4	9.1	0	130.0	849	10
FS HiSOY	HS 18E30 ↗	E3	1.8	R	67.4	9.3	0	130.0	849	11
Cornelius	CB18XF88 GC ↗	RXF	1.8	R	66.8	9.0	0	129.7	842	12
Hefty	H16E4 ↗	E3	1.6	R	66.5	9.4	0	127.3	838	13
Stine	19EG92 § ↗	E3	1.9	R	66.3	9.1	0	127.3	835	14
Zinesto	Z2002E ↗	E3	2.0	NA	64.0	9.1	0	127.3	806	15
Kruger	K1914XF ↗	RXF	1.9	R	63.7	8.7	0	124.7	803	16
Titan Pro	TP 20E22 GC ↗	E3	2.0	R	63.5	9.2	0	127.3	800	17
Pioneer	P19A66E § ↗	E3	1.9	NA	62.9	8.7	0	127.3	793	18
FS HiSOY	HS 15F30 ↗	RXF	1.5	R	62.8	9.3	0	127.3	791	19
Hefty	H20E3 ↗	E3	2.0	R	62.5	9.4	0	129.7	788	20
Xitavo	XO 1761E ↗	E3	1.7	R	61.0	8.7	0	127.3	769	21
Golden Harvest	GH2083E3S § ↗	E3,ST	2.0	R	60.9	9.4	0	130.0	767	22
Golden Harvest	GH2004XF § ↗	RXF	2.0	MR	60.6	9.0	0	127.3	764	23
Titan Pro	TP 18E22 GC ↗	E3	1.8	R	60.1	9.2	0	130.0	757	24
Pioneer	P18A73E § ↗	E3	1.8	NA	60.1	8.6	0	117.3	757	25
Zinesto	Z1603E ↗	E3	1.6	R	59.9	9.0	0	124.7	755	26
Kruger	K1804XF ↗	RXF	1.8	R	59.4	8.7	0	129.7	748	27
Xitavo	XO 1971E ↗	E3	1.9	R	59.1	9.1	0	129.7	745	28
Zinesto	Z1902E ↗	E3	1.9	NA	56.2	9.0	0	130.0	708	29
Cornelius	CB16XF21 GC ↗	RXF	1.6	R	53.8	9.2	0	125.0	678	30
CROPLAN	CP2520E CK	E3	2.5	R	71.0	9.4	0	130.0	895	3

Corey Rozenboom

Corey Rozenboom

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Averages = **64.5** **9.1** **127.8** **813**

LSD (0.10) = 4.2 0.3 ns

LSD (0.25) = 2.2 0.2 ns

C.V. = 6.2

Historic yield: 57.5 bu/a, 15 yr(s)

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.0 Drying = \$0.02 Prices: GMO = \$12.60

Report Date: 10/10/2023

† 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 2.5 - 2.8 S2023IANW04b
Top 30 of 30	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Anthem Maxx, Atrazine, Solstice
SOIL DESCRIPTION:	Nicollet clay loam, moderately drained, non-irrigated
SOIL CONDITION:	medium P, medium K, 6.0 pH, 4.5% OM, 22.7 CEC
TILLAGE/CULTIVATION:	Minimum W/ Fall Till
PEST MANAGEMENT:	Authority Edge, Mauler, Liberty 280 SI, Roundup Powermax 3, Outlook, Clethodim 2ec, Lucento, Hero
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 26 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 9 125.4 /A

TEST COMMENTS:

A wet spring delayed planting here and soil moisture was nearly ideal at planting time. The plants emerged quickly. Dry conditions during flowering and pod development did take a toll on varieties at this site, however, a few well-timed showers early in August provided some temporary relief to the moderate drought that had formed. Seed size was all over the place on any given plant with August rain-filled pods with large seeds higher up the plant compared to smaller seeds found in pods set mid-to-lower on the main stem. From planting through Oct 1, this farm was 6.4" below the 10-yr average rainfall. Plants stood very straight at harvest and no lodging was noted.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Asgrow	AG21XF2 § ↗	RXF	2.1	R	76.8	9.1	0	124.7	968	1
Xitavo	XO 2323E ↗	E3	2.3	R	75.0	9.2	0	127.3	945	2
Hoegemeyer	2574 E ↗	E3	2.5	R	75.0	9.4	0	127.3	945	3
Titan Pro	TP 25E22 ↗	E3	2.5	R	74.8	9.5	0	124.7	942	4
Kruger	K2294XF ↗	RXF	2.2	R	74.7	9.3	0	125.0	941	5
Genesis	G2550E ↗	E3	2.5	R	73.8	9.2	0	125.0	930	6
Golden Harvest	GH2292E3 § ↗	E3	2.2	MR	73.7	8.9	0	127.3	929	7
Xitavo	XO 2282E ↗	E3	2.2	R	73.4	9.1	0	124.7	925	8
Zinesto	Z2303E ↗	E3	2.3	R	72.2	9.3	0	122.3	910	9
Kruger	K2115XF ↗	RXF	2.1	R	72.0	9.2	0	124.7	907	10
Stine	21EG32 § ↗	E3	2.1	R	71.7	9.7	0	124.7	903	11
FS HiSOY	HS 25E30 ↗	E3	2.5	R	71.7	9.5	0	130.0	903	12
Golden Harvest	GH2544XF § ↗	RXF	2.5	R	71.0	9.4	0	119.7	895	13
Cornelius	CB22XF52 ↗	RXF	2.2	R	70.9	8.9	0	122.3	893	14
Xitavo	XO 2444E ↗	E3,ST	2.4	R	70.9	9.9	0	130.0	893	15
Hoegemeyer	2254 E ↗	E3	2.2	R	70.3	9.7	0	127.3	886	17
Genesis	G2570ES ↗	E3,ST	2.5	R	69.7	9.4	0	124.7	878	18
FS HiSOY	HS 23F10 ↗	RXF	2.3	R	69.7	9.6	0	127.3	878	19
Genesis	G2480E ↗	E3	2.4	R	68.5	8.9	0	124.7	863	20
Xitavo	XO 2181E ↗	E3	2.1	R	68.3	9.0	0	124.7	861	21
FS HiSOY	HS 24E30 ↗	E3	2.4	R	68.1	9.4	0	130.0	858	22
FS HiSOY	HS 23E10 ↗	E3,ST	2.3	R	66.0	9.2	0	120.0	832	23
Pioneer	P21A53E § ↗	E3	2.1	NA	66.0	8.7	0	125.0	832	24
Zinesto	Z2401E ↗	E3	2.4	R	65.7	9.8	0	122.0	828	25
Asgrow	AG25XF3 § ↗	RXF	2.5	R	65.4	10.0	0	127.3	824	26
Zinesto	Z2202E ↗	E3	2.2	NA	64.3	9.3	0	127.3	810	27
Stine	24FD32 § ↗	RXF	2.4	R	63.5	9.1	0	127.3	800	28
Zinesto	Z2101E ↗	E3	2.1	R	63.5	9.4	0	125.0	800	29
Titan Pro	TP 22E23 ↗	E3	2.2	R	61.8	9.1	0	127.3	779	30
CROPLAN	CP2520E CK	E3	2.5	R	70.4	9.3	0	122.0	887	16

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Averages = **69.9** **9.3** **125.4** **882**

LSD (0.10) = 3.8 0.4 ns

LSD (0.25) = 2.0 0.2 ns

C.V. = 5.1

Historic yield: 57.5 bu/a, 15 yr(s)

Yield & Income Factors: Base Moisture = 13.0% Shrink = 1.0 Drying = \$0.02 Prices: GMO = \$12.60

Report Date: 10/10/2023

† 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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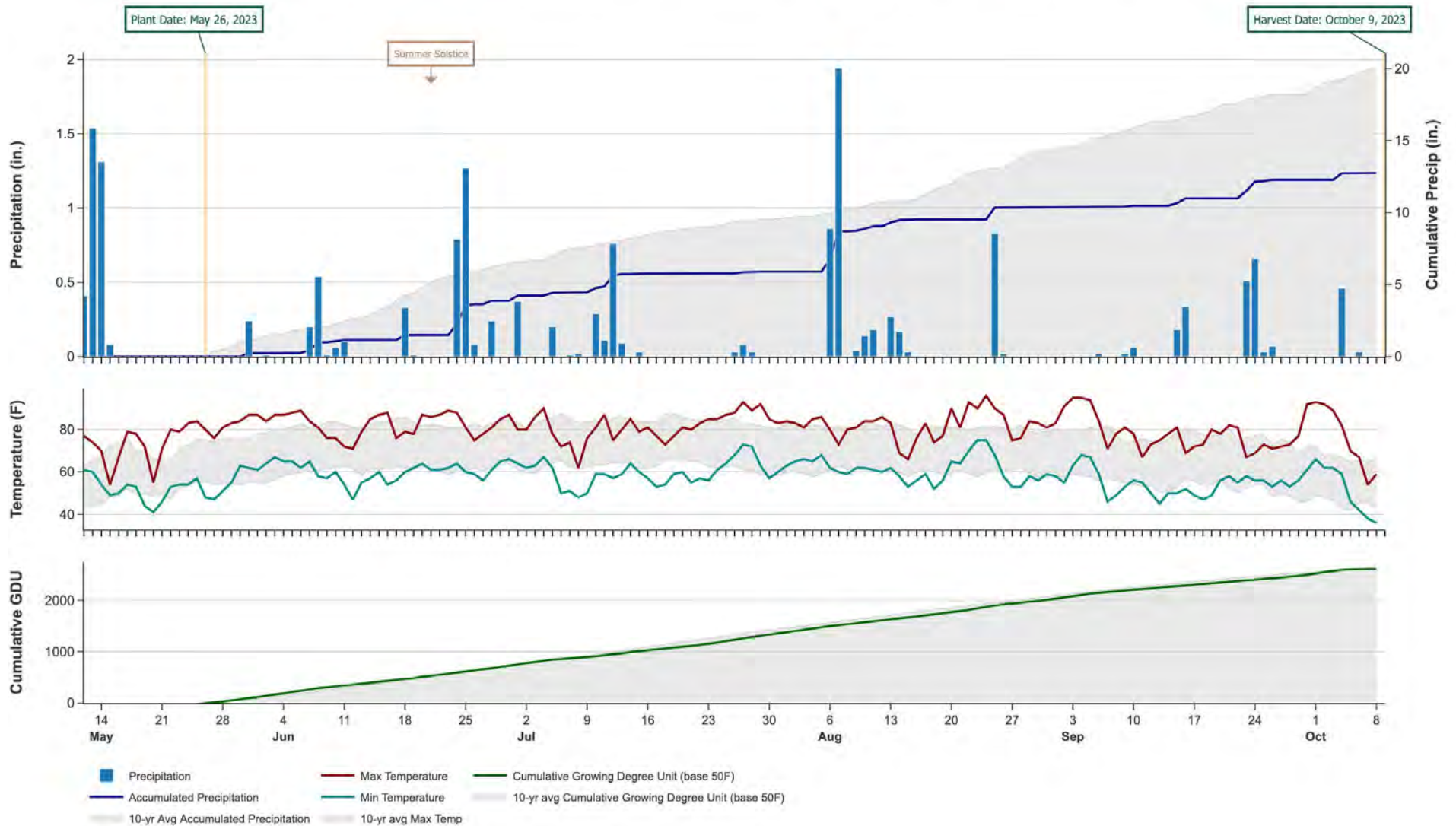
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2023 Soybeans - Iowa Northwest [IANW]

Weather Conditions Summary at EMMETSBURG, IA

Weather Data Retrieved: 10/10/2023

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) (Diff)	3.6 3.4 (+0.2)	3.6 5.3 (-1.7)	2.0 3.1 (-1.1)	4.5 4.7 (-0.2)	1.9 4.0 (-2.1)	0.5 1.8 (-1.3)	16.1 22.2 (-6.1)
GDU Avg (Diff)	294 235 (+58)	635 640 (-5)	623 720 (-97)	657 638 (+18)	485 464 (+20)	113 67 (+45)	2807 2766 (+40)



* 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.

2023 Soybeans - Iowa Northwest [IANW]

Early-Season Test Products (30 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Asgrow	AG18XF1 §	RXF	R	1.8	ACi,IL
Asgrow	AG19XF3 §	RXF	R	1.9	ACi,IL
Cornelius	CB16XF21 GC	RXF	R	1.6	PG+
Cornelius	CB18XF88 GC	RXF	R	1.8	PG+
Croplan	CP2520E CK	E3	R	2.5	W
FS HiSOY	HS 15E10	E3	R	1.5	ACi,SA
FS HiSOY	HS 15F30	RXF	R	1.5	ACi,SA
FS HiSOY	HS 18E30	E3	R	1.8	ACi,SA
FS HiSOY	HS 18F20	RXF	R	1.8	ACi,SA
Golden Harvest	GH2004XF §	RXF	MR	2.0	CMB-APX,SA
Golden Harvest	GH2083E3S §	E3,ST	R	2.0	CMB-APX,SA
Hefty	H16E4	E3	R	1.6	DST5
Hefty	H18E3	E3	R	1.8	DST5
Hefty	H20E3	E3	R	2.0	DST5
Kruger	K1804XF	RXF	R	1.8	ACi,IL
Kruger	K1914XF	RXF	R	1.9	ACi,IL
Pioneer	P18A73E §	E3	NA	1.8	Untreated
Pioneer	P19A66E §	E3	NA	1.9	Untreated
Stine	19EG92 §	E3	R	1.9	ACi
Stine	20EG02 §	E3	R	2.0	ACi
Titan Pro	TP 18E22 GC	E3	R	1.8	Untreated
Titan Pro	TP 20E22 GC	E3	R	2.0	SA,A,R,TU
Xitavo	XO 1632E	E3	R	1.6	PV,IL,OB,Rey
Xitavo	XO 1761E	E3	R	1.7	PV,IL,OB,Rey
Xitavo	XO 1822E	E3	R	1.8	PV,IL,OB,Rey
Xitavo	XO 1971E	E3	R	1.9	PV,IL,OB,Rey
Zinesto	Z1603E	E3	R	1.6	DST5
Zinesto	Z1802E	E3	NA	1.8	DST5
Zinesto	Z1902E	E3	NA	1.9	DST5
Zinesto	Z2002E	E3	NA	2.0	DST5

2023 Soybeans - Iowa Northwest [IANW]

Full-Season Test Products (30 Total)

Company/Brand	Product/Brand	Technology	SCN	RM	Seed Treat.
Asgrow	AG21XF2 §	RXF	R	2.1	ACi,IL
Asgrow	AG25XF3 §	RXF	R	2.5	ACi,IL
Cornelius	CB22XF52	RXF	R	2.2	PG+
Croplan	CP2520E CK	E3	R	2.5	W
FS HiSOY	HS 23E10	E3,ST	R	2.3	ACi,SA
FS HiSOY	HS 23F10	RXF	R	2.3	ACi,SA
FS HiSOY	HS 24E30	E3	R	2.4	ACi,SA
FS HiSOY	HS 25E30	E3	R	2.5	ACi,SA
Genesis	G2480E	E3	R	2.4	EcQ,NF,NH,SA
Genesis	G2550E	E3	R	2.5	EcQ,NF,NH,SA
Genesis	G2570ES	E3,ST	R	2.5	EcQ,NF,NH,SA
Golden Harvest	GH2292E3 §	E3	MR	2.2	CMB-APX,SA
Golden Harvest	GH2544XF §	RXF	R	2.5	CMB-APX,SA
Hoegemeyer	2254 E	E3	R	2.2	Lum, LumT, IL
Hoegemeyer	2574 E	E3	R	2.5	Lum,Lu,IL
Kruger	K2115XF	RXF	R	2.1	ACi,IL
Kruger	K2294XF	RXF	R	2.2	ACi,IL
Pioneer	P21A53E §	E3	NA	2.1	Untreated
Stine	21EG32 §	E3	R	2.1	ACi
Stine	24FD32 §	RXF	R	2.4	ACi
Titan Pro	TP 22E23	E3	R	2.2	SA,A,R,TU
Titan Pro	TP 25E22	E3	R	2.5	SA,A,R,TU
Xitavo	XO 2181E	E3	R	2.1	PV,IL,OB,Rey
Xitavo	XO 2282E	E3	R	2.2	PV,IL,OB,Rey
Xitavo	XO 2323E	E3	R	2.3	PV,IL,OB,Rey
Xitavo	XO 2444E	E3,ST	R	2.4	PV,IL,OB,Rey
Zinesto	Z2101E	E3	R	2.1	DST5
Zinesto	Z2202E	E3	NA	2.2	DST5
Zinesto	Z2303E	E3	R	2.3	DST5
Zinesto	Z2401E	E3	R	2.4	DST5

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	XtendFlex®
ST	Sulfonylurea tolerant

Soybeans Seed Treatments*

NA	Not Available
ACi	Acceleron® Standard Insecticide-Fungicide
ACi,IL	Acceleron® Standard Insecticide-Fungicide, ILeVO
ACi,SA	Acceleron® Standard Insecticide-Fungicide, Saltro®
CMB-APX,SA	CruiserMaxx® APX with Saltro®
DST5	Dominance 5 ST
EcQ,NF,NH,SA	Eclipse US Total Quad-R, N-Force, N-Hibit, Saltro
Lum,Lu,IL	LumiGEN™, Lumisena™, ILeVO
Lum, LumT, IL	LumiGEN™, LumiTreo, ILEVO
PG+	Profit Guard +
PV,IL,OB,Rey	Poncho®/Votivo®, ILeVO, Obvius Plus, Relenya®
SA,A,R,TU	Saltro, AllegianceFL, Redigo480, TriUp
Untreated	No seed treatment
W	Warden® CX

* Seed treatments may include unspecified plant health promoting components.