

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

2023 Soybeans Top 30 Harvest Report

Iowa Northwest [IANW] HULL, IA
Hull Coop Association, Evan Wielenga, Sioux County, IA

Early-Season Test	Maturity Group 1.6 - 2.0 S2023IANW01a
Top 30 of 30	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Verdict, Callisto, Atrazine
SOIL DESCRIPTION:	Galva-Primghar silty clay loam, well drained, non-irrigated
SOIL CONDITION:	high P, very high K, 6.4 pH, 4.3% OM, 21.2 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Zidua Pro, Roundup Powermax 3, Liberty 280 SI (X2)
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 8 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 6 129.3 /A

TEST COMMENTS:

We were very glad to work with Evan and the local coop to host the soybean plot this season, while also providing a learning opportunity for the local high school FFA chapter about field research and the many different soybean varieties that farmers have to choose from. For the most part, this part of the state was dry all season long. From July all the way through harvest, most of Sioux County stayed in a moderate drought. This prevented foliar disease development and plants were healthy through vegetative and reproductive stages. With the exception of a single storm that brought 3.3" on Aug 6 & 7, the rain was very scarce during seed filling. In all from planting through Oct 1, this farm was 4.9" below the 10-yr average. Plants stood nice and straight at harvest and no lodging was observed.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Kruger	K1804XF ↗	RXF	1.8	R	74.5	10.5	1	130.0	939	1
Titan Pro	TP 20E22 GC ↗	E3	2.0	R	74.0	10.7	1	124.7	932	2
Cornelius	CB18XF88 GC ↗	RXF	1.8	R	73.4	10.4	1	132.3	925	3
Zinesto	Z1902E ↗	E3	1.9	NA	73.0	10.9	1	124.7	920	5
Zinesto	Z1802E ↗	E3	1.8	NA	72.2	10.8	1	127.3	910	6
Hefty	H20E3 ↗	E3	2.0	R	71.2	10.6	1	130.0	897	7
Titan Pro	TP 18E22 GC ↗	E3	1.8	R	70.0	10.8	1	134.7	882	8
Pioneer	P19A66E § ↗	E3	1.9	NA	69.6	10.6	1	130.0	877	9
Hefty	H18E3 ↗	E3	1.8	R	69.2	11.0	1	132.0	872	10
Xitavo	XO 1632E ↗	E3	1.6	R	69.2	11.3	1	127.3	872	11
Stine	19EG92 § ↗	E3	1.9	R	68.7	10.8	1	127.3	866	12
FS HiSOY	HS 18F20 ↗	RXF	1.8	R	68.6	11.1	1	137.0	864	13
FS HiSOY	HS 15F30 ↗	RXF	1.5	R	68.0	12.1	1	122.0	857	14
Pioneer	P18A73E § ↗	E3	1.8	NA	68.0	10.6	1	130.0	857	15
Xitavo	XO 1822E ↗	E3	1.8	R	67.3	11.1	1	127.3	848	16
Asgrow	AG19XF3 § ↗	RXF	1.9	R	67.2	10.7	1	127.3	847	17
FS HiSOY	HS 18E30 ↗	E3	1.8	R	66.2	11.2	1	130.0	834	18
Asgrow	AG18XF1 § ↗	RXF	1.8	R	66.1	11.0	1	134.7	833	19
Cornelius	CB16XF21 GC ↗	RXF	1.6	R	65.9	11.2	1	134.7	830	20
FS HiSOY	HS 15E10 ↗	E3	1.5	R	65.9	11.3	1	124.7	830	21
Golden Harvest	GH2004XF § ↗	RXF	2.0	MR	65.3	11.1	1	132.3	823	22
Kruger	K1914XF ↗	RXF	1.9	R	65.3	11.1	1	124.7	823	23
Zinesto	Z2002E ↗	E3	2.0	NA	64.7	11.1	1	132.3	815	24
Stine	20EG02 § ↗	E3	2.0	R	64.1	11.1	1	132.3	808	25
Golden Harvest	GH2083E3S § ↗	E3,ST	2.0	R	63.2	11.1	1	129.7	796	26
Xitavo	XO 1761E ↗	E3	1.7	R	60.4	11.3	1	132.3	761	27
Xitavo	XO 1971E ↗	E3	1.9	R	57.5	11.5	1	127.3	724	28
Hefty	H16E4 ↗	E3	1.6	R	54.4	11.4	1	124.7	685	29
Zinesto	Z1603E ↗	E3	1.6	R	52.0	11.2	1	129.7	655	30
CROPLAN	CP2520E CK	E3	2.5	R	73.0	10.6	1	125.0	920	4
					Averages =	66.9	11.0	1	129.3	843
					LSD (0.10) =	3.5	0.3	ns		
					LSD (0.25) =	1.9	0.1	ns		
					C.V. =	5.0	Historic yield: 53.75 bu/a, 3 yr(s)			

Corey Rozenboom

Corey Rozenboom

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

Report Date: 10/07/2023

Revised: 10/23/2023 Corrected the test maturity range, no data changes.

Additional reports available at www.firstseedtests.com

† 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 2.1 - 2.5 S2023IANW01b
Top 30 of 30	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn / Verdict, Callisto, Atrazine
SOIL DESCRIPTION:	Galva-Primghar silty clay loam, well drained, non-irrigated
SOIL CONDITION:	high P, very high K, 6.4 pH, 4.3% OM, 21.2 CEC
TILLAGE/CULTIVATION:	Conventional W/ Fall Till
PEST MANAGEMENT:	Zidua Pro, Roundup Powermax 3, Liberty 280 SI (X2)
Applied N-P-K (units):	0-0-0
SEEDED - RATE - ROW:	May 8 144.0 /A 30" spacing
HARVESTED - STAND:	Oct 6 129.9 /A

TEST COMMENTS:

We were very glad to work with Evan and the local coop to host the soybean plot this season, while also providing a learning opportunity for the local high school FFA chapter about field research and the many different soybean varieties that farmers have to choose from. For the most part, this part of the state was dry all season long. From July all the way through harvest, most of Sioux County stayed in a moderate drought. This prevented foliar disease development and plants were healthy through vegetative and reproductive stages. With the exception of a single storm that brought 3.3" on Aug 6 & 7, the rain was very scarce during seed filling. In all from planting through Oct 1, this farm was 4.9" below the 10-yr average. Plants stood nice and straight at harvest and no lodging was observed.

Company/Brand	Product/Brand	Technol.†	RM	SCN Resist.	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Xitavo	XO 2444E ↗	E3,ST	2.4	R	77.0	10.6	1	127.3	970	1
Genesis	G2570ES ↗	E3,ST	2.5	R	75.2	10.7	1	132.3	948	2
Stine	24FD32 § ↗	RXF	2.4	R	74.9	10.9	1	130.0	944	3
Titan Pro	TP 25E22 ↗	E3	2.5	R	74.6	10.4	1	127.3	940	4
FS HISOY	HS 23E10 ↗	E3,ST	2.3	R	74.3	10.8	1	127.3	936	5
Cornelius	CB22XF52 ↗	RXF	2.2	R	72.5	10.5	1	132.3	914	6
Golden Harvest	GH2544XF § ↗	RXF	2.5	R	72.4	10.6	1	129.7	912	7
Genesis	G2480E ↗	E3	2.4	R	72.0	10.7	1	132.3	907	8
FS HISOY	HS 25E30 ↗	E3	2.5	R	71.8	10.3	1	130.0	905	9
FS HISOY	HS 24E30 ↗	E3	2.4	R	71.8	10.7	1	130.0	905	10
Hoegemeyer	2574 E ↗	E3	2.5	R	71.6	10.6	1	132.3	902	12
Zinesto	Z2303E ↗	E3	2.3	R	70.5	10.8	1	130.0	888	13
FS HISOY	HS 23F10 ↗	RXF	2.3	R	70.0	10.6	1	130.0	882	14
Xitavo	XO 2282E ↗	E3	2.2	R	69.7	10.7	1	130.0	878	15
Titan Pro	TP 22E23 ↗	E3	2.2	R	69.5	10.9	1	130.0	876	16
Xitavo	XO 2323E ↗	E3	2.3	R	69.3	10.8	1	127.3	873	17
Kruger	K2115XF ↗	RXF	2.1	R	67.9	11.2	1	132.3	856	18
Zinesto	Z2401E ↗	E3	2.4	R	67.5	10.8	1	130.0	850	19
Zinesto	Z2202E ↗	E3	2.2	NA	66.1	11.0	1	132.3	833	20
Asgrow	AG21XF2 § ↗	RXF	2.1	R	66.0	11.0	1	132.3	832	21
Genesis	G2550E ↗	E3	2.5	R	65.7	11.0	1	130.0	828	22
Golden Harvest	GH2292E3 § ↗	E3	2.2	MR	64.3	10.8	1	132.3	810	23
Asgrow	AG25XF3 § ↗	RXF	2.5	R	63.2	10.3	1	124.7	796	24
Xitavo	XO 2181E ↗	E3	2.1	R	61.5	11.3	1	127.3	775	25
Hoegemeyer	2254 E ↗	E3	2.2	R	61.3	10.8	1	127.3	772	26
Stine	21EG32 § ↗	E3	2.1	R	60.9	11.9	1	132.3	767	27
Kruger	K2294XF ↗	RXF	2.2	R	60.2	10.7	1	127.3	759	28
Zinesto	Z2101E ↗	E3	2.1	R	59.0	11.4	1	132.3	743	29
Pioneer	P21A53E § ↗	E3	2.1	NA	58.6	11.1	1	127.3	738	30
CROPLAN	CP2520E CK	E3	2.5	R	71.7	10.7	1	130.0	903	11

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Averages = **68.4** **10.8** **1** **129.9** **861**

LSD (0.10) = 3.3 0.2 ns

LSD (0.25) = 1.7 0.1 ns

C.V. = 4.5

Historic yield: 53.75 bu/a, 3 yr(s)

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

Report Date: 10/07/2023

Revised: 10/23/2023 Corrected the test maturity range, no data changes.

Additional reports available at www.firstseedtests.com

† 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

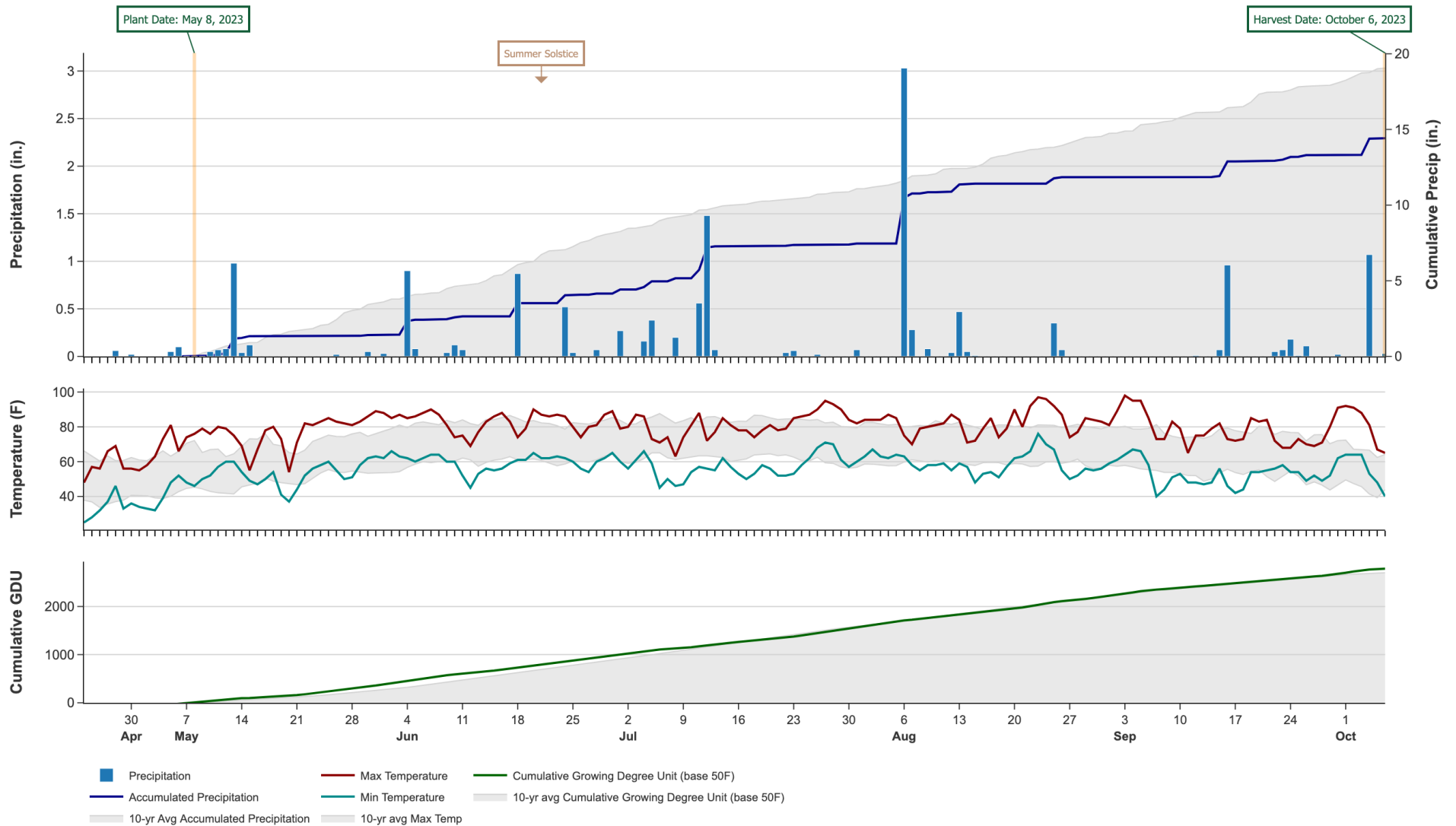
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2023 Soybeans - Iowa Northwest [IANW]

Weather Conditions Summary at HULL, IA

Weather Data Retrieved: 10/23/2023

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) (Diff)	0.1 0.6 (-0.6)	1.6 4.5 (-2.9)	2.7 4.6 (-1.9)	3.3 2.9 (+0.4)	4.4 3.5 (+0.9)	1.5 3.5 (-2.1)	1.1 1.0 (+0.1)	14.7 20.6 (-6.0)
GDU Avg (Diff)	18 20 (-2)	419 315 (+103)	634 630 (+3)	579 700 (-121)	626 616 (+9)	478 447 (+30)	108 49 (+58)	2862 2781 (+80)



* 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, LumT, IL	LumiGEN™, LumiTreo, ILEVO
Lum,Lu,IL	LumiGEN™, Lumisena™, 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.