

Test by: Northland F.I.R.S.T., LLC Moorhead, MN

2021 Corn Grain Top 30 Harvest Report

Red River South North Dakota & Minnesota [RRSO]

MILNOR, ND

Steve Hogness, Sargent County, ND

Early-Season Test 85 - 90 Day CRM
B2021RRSO02a

Top 30 of 37 For Gross Income
(Sorted by Yield)
Average of (4) Replications

PREV. CROP/HERB: Soybeans / Enlist Duo, Liberty

SOIL DESCRIPTION: Gardena-Glyndon silt loam,
moderately drained, non-
irrigated

SOIL CONDITION: Strip-Till, high P, high K, 6.3 pH,
5.3% OM, 20.3 CEC

PEST MANAGEMENT: Accuron

FERTILITY - Applied N: 11 Fall, 60 Sidedress

Applied N-P-K (units): 71-52-0

SEDED - RATE - ROW: May 3 34.5 /A 30" spacing

HARVESTED - STAND: Oct 17 32.9 /A

TEST COMMENTS:

This plot was planted in strip-till. At planting, there was adequate moisture, but emergence was delayed a week longer than usual due to cold soil conditions. Timely rains, paired with no-till conditions, may have helped this plot through the worst of the dry summer. While harvesting the plot, there was significant lodging noticed among some of the varieties making for a difficult time picking up all the cobs; A pinch test showed weak stalks on those with severe lodging. Steve said the hybrid he planted around the plot did very well, averaging around 230 bpa.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank		
Golden Harvest	G90Y04-5222A EZR ↗	5222A	90	253.3	16.6	9	33.7	1307	1		
Hefty	H4052 ↗	VT2P	90	231.7	15.9	11	32.5	1199	2		
Innotech	IC3983-3220 ↗	3220	89	224.1	16.5	2	34.4	1157	3		
Renk	RK297VT2P ↗	VT2P	89	222.8	15.6	24	33.3	1155	4		
Hefty	H3922 RIB ↗	VT2P	89	222.6	16.2	18	34.0	1151	5		
Rob-See-Co	RC3601-3011A ↗	3011A	86	221.6	16.1	20	32.5	1146	6		
Channel	189-64STXRIB GC ↗	STX	89	219.0	16.7	16	33.7	1129	7		
REA	3B903 ↗	VT2P	90	216.5	15.6	8	32.5	1122	8		
Latham	LH 3827 VT2P RIB ↗	VT2P	88	215.4	15.4	15	32.5	1118	9		
Channel	187-20VT2PRIB GC ↗	VT2P	87	214.6	16.1	4	33.7	1110	10		
Golden Harvest	G90S99-5222 EZR ↗	5222	90	213.8	16.7	4	32.9	1103	11		
Latham	LH 3937 VT2P RIB ↗	VT2P	89	210.1	16.7	13	32.5	1083	12		
Golden Harvest	G85Z56-3220 EZR ↗	3220	85	207.9	15.9	36	32.9	1076	14		
Dairyland	DS-3022AM ↗	AM	90	206.6	17.2	11	32.9	1063	16		
Thunder	T6190 VT2P ↗	VT2P	90	205.6	16.0	11	33.3	1064	15		
Hefty	H3542 RIB ↗	VT2P	85	203.3	15.7	6	33.3	1053	17		
Dairyland	DS-2828AM ↗	AM	88	202.8	16.5	2	32.5	1047	18		
Integra	4041 VT2PRIB ↗	VT2P	90	201.6	16.1	58	32.9	1043	19		
Renk	RK312VT2PRIB ↗	VT2P	90	200.8	15.8	2	32.5	1040	20		
Latham	LH 3695 VT2P RIB ↗	VT2P	86	200.6	15.7	15	33.7	1039	21		
Dahlman	R45-25VT2PRIB ↗	VT2P	90	198.3	15.6	21	32.5	1028	22		
Thunder	T6888 VT2P ↗	VT2P	88	195.3	15.3	35	32.9	1014	23		
AgriGold	A615-64VT2RIB GC ↗	VT2P	85	193.4	14.8	18	32.9	1006	24		
Renk	RK315VT2P ↗	VT2P	90	190.4	15.5	25	32.9	988	25		
Proseed	1790 VT2PRIB ↗	VT2P	90	189.7	16.5	18	32.5	980	26		
Dyna-Gro	D27VC87 ↗	VT2P	87	188.6	16.1	22	32.5	976	27		
Hefty	H3712 RIB ↗	VT2P	87	185.4	15.3	23	32.5	963	28		
Integra	3629 VT2PRIB ↗	VT2P	86	185.0	15.3	24	32.9	961	29		
Thunder	T7188 VT2P ↗	VT2P	88	184.3	15.9	1	33.3	954	30		
Thunder	T6185 VT2P ↗	VT2P	85	178.5	15.7	23	32.5	925	31		
DeKalb	DKC41-99RIB CK	VT2P	91	208.4	15.6	3	33.7	1081	13		
				Averages =	199.8	15.8	18	32.9	1034		
				LSD (0.10) =	15.8	0.5	16				
				LSD (0.25) =	8.3	0.3	9				
				C.V. =	8.7						
Luke Brendemuhl										Historic yield: 181.87 bu/a, 2 yr(s)	
luke.brendemuhl@firstseedtests.com, (218) 790-4497											

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$5.20

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 Corn Grain Top 30 Harvest Report

Red River South North Dakota & Minnesota [RRSO]

MILNOR, ND

Steve Hogness, Sargent County, ND

Full-Season Test 91 - 95 Day CRM
B2021RRSO02b

Top 30 of 40 For Gross Income
(Sorted by Yield)
Average of (4) Replications

PREV. CROP/HERB: Soybeans / Enlist Duo, Liberty

SOIL DESCRIPTION: Gardena-Glyndon silt loam,
moderately drained, non-
irrigated

SOIL CONDITION: Strip-Till, high P, high K, 6.3 pH,
5.3% OM, 20.3 CEC

PEST MANAGEMENT: Accuron

FERTILITY - Applied N: 11 Fall, 60 Sidedress

Applied N-P-K (units): 71-52-0

SEDED - RATE - ROW: May 3 34.5 /A 30" spacing

HARVESTED - STAND: Oct 17 33.0 /A

TEST COMMENTS:

This plot was planted in strip-till. At planting, there was adequate moisture, but emergence was delayed a week longer than usual due to cold soil conditions. Timely rains, paired with no-till conditions, may have helped this plot through the worst of the dry summer. While harvesting the plot, there was significant lodging noticed among some of the varieties making for a difficult time picking up all the cobs; A pinch test showed weak stalks on those with severe lodging. Steve said the hybrid he planted around the plot did very well, averaging around 230 bpa.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank	
Hefty	H4522 RIB ↗	VT2P	95	253.8	17.8	3	33.7	1302	1	
Rob-See-Co	RC4535-3110 ↗	3110	95	251.4	17.2	2	33.7	1293	2	
Enestvedt	E612RR ↗	RR2	92	248.3	15.5	19	33.4	1288	3	
Latham	LH 4454 VT2P RIB ↗	VT2P	94	245.2	17.3	2	31.8	1261	4	
Thunder	T6791 VT2P ↗	VT2P	91	243.0	16.1	2	32.2	1256	5	
Latham	LH 4517 VT2P RIB ↗	VT2P	95	242.3	17.0	34	32.9	1248	6	
Latham	LH 4375 VT2P RIB ↗	VT2P	93	240.4	16.3	20	34.4	1243	7	
AgriGold	A621-77VT2RIB GC ↗	VT2P	91	239.6	16.3	12	31.8	1238	8	
Pioneer	P9188AMXT GC ↗	AMXT	91	235.9	17.6	0	32.4	1212	9	
Integra	4509 VT2PRIB ↗	VT2P	95	235.3	18.2	2	34.0	1205	12	
Latham	LH 4242 VT2P RIB ↗	VT2P	92	235.0	17.0	10	32.9	1210	10	
Dyna-Gro	D35VC35 ↗	VT2P	95	234.1	16.7	24	33.3	1208	11	
REA	4B958 ↗	VT2P	95	233.8	18.3	0	32.2	1197	14	
REA	4B933 ↗	VT2P	93	233.0	16.1	15	32.5	1205	13	
Hefty	H4332 RIB ↗	VT2P	93	231.6	16.4	0	32.5	1197	15	
Dairyland	DS-3366AM ↗	AM	93	231.4	16.8	8	33.3	1192	16	
Renk	RK429-3220A ↗	3220A	93	230.7	16.5	23	32.2	1191	17	
Golden Harvest	G91V51-5222A EZR ↗	5222A	91	230.1	17.4	23	33.7	1183	19	
REA	4B944 ↗	VT2P	94	229.7	16.5	1	32.5	1186	18	
Channel	195-85DGV2PRIB GC ↗	VT2P	95	228.7	16.8	23	32.9	1179	20	
Dahlman	R48-28VT2PRIB ↗	VT2P	95	228.3	17.2	13	32.5	1174	21	
Integra	4311 VT2PRIB ↗	VT2P	93	226.4	16.4	22	32.5	1170	22	
Hefty	H4132 ↗	VT2P	91	222.8	15.6	9	32.2	1155	23	
AgriGold	A625-78VT2RIB GC ↗	VT2P	95	222.6	16.7	26	33.3	1148	24	
Thunder	T6595 VT2P ↗	VT2P	95	222.1	17.9	0	31.8	1139	26	
Hefty	H4222 RIB ↗	VT2P	92	220.1	17.0	6	32.9	1134	27	
Dairyland	DS-3193AM ↗	AM	91	217.8	16.5	22	33.7	1124	28	
Thunder	T6992 VT2P ↗	VT2P	92	217.6	16.4	12	32.5	1124	29	
Integra	4119 VT2PRIB ↗	VT2P	91	216.7	16.5	22	33.3	1119	30	
Rob-See-Co	RC4166-3110A ↗	3110A	91	216.1	16.2	55	32.9	1117	31	
DeKalb	DKC41-99RIB CK	VT2P	91	221.4	15.9	5	34.4	1146	25	
				Averages =	225.7	16.8	17	33.0	1163	
				LSD (0.10) =	14.0	0.6	13			
				LSD (0.25) =	7.4	0.3	7			
				C.V. =	6.8					
Luke Brendemuhl				Historic yield: 181.87 bu/a, 2 yr(s)						
luke.brendemuhl@firstseedtests.com, (218) 790-4497										

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$5.20

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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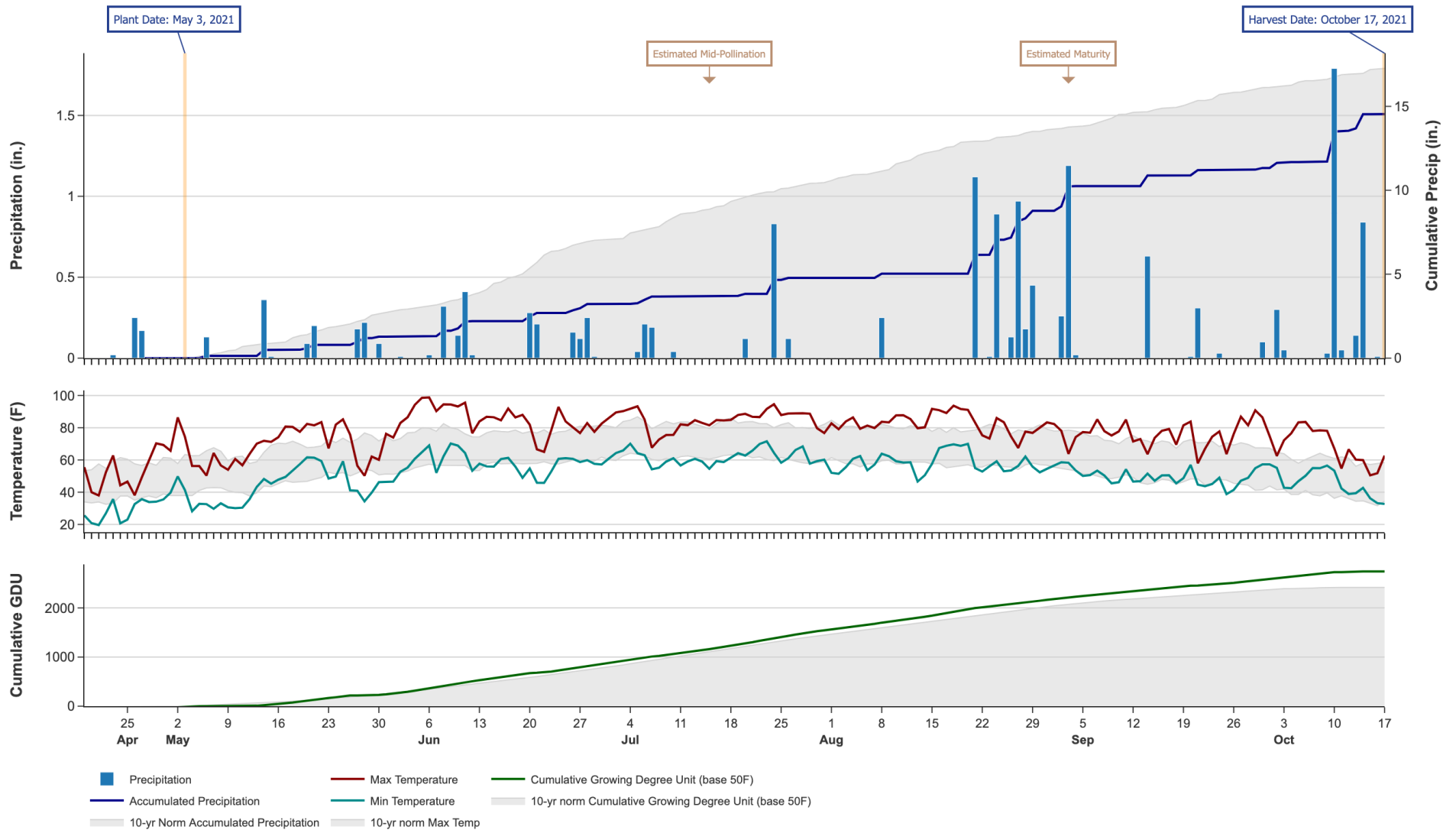
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2021 Corn - Red River South North Dakota & Minnesota [RRSO]

Weather Conditions Summary at MILNOR, ND

Weather Data Retrieved: 10/19/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	0.4 1.0 (-0.6)	1.3 2.9 (-1.6)	1.9 4.3 (-2.3)	1.6 3.4 (-1.9)	4.0 3.1 (+0.9)	2.5 2.5 (0.0)	3.2 1.1 (+2.1)	15.0 18.4 (-3.4)
GDU Normal (Diff)	20 5 (+14)	280 259 (+20)	606 524 (+81)	696 672 (+23)	621 577 (+43)	420 343 (+76)	157 47 (+109)	2800 2430 (+369)



* 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 Corn - Red River South North Dakota & Minnesota [RRSO]

Early-Season Test Products (37 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
AgriGold	A615-64VT2RIB GC	VT2P	Y	85	AC,P5V
Channel	187-20VT2PRIB GC	VT2P	Y	87	AC,P5,B360
Channel	189-64STXRIB GC	STX	Y	89	AC,P5V,EDC-B
Dahlman	R45-25VT2PRIB	VT2P	Y	90	AC,P2
Dairyland	DS-2828AM	AM	Y	88	Lum
Dairyland	DS-3022AM	AM	Y	90	Lum,P1V
DeKalb	DKC41-99RIB CK	VT2P	Y	91	AC,P2,B360
Dyna-Gro	D27VC87	VT2P	N	87	AC,P5V
Enestvedt	E878DP RIB	VT2P	Y	87	AC250
Golden Harvest	G85Z56-3220 EZR	3220	Y	85	AVC,C2,Vi
Golden Harvest	G90S99-5222 EZR	5222	Y	90	AVC,C2,Vi
Golden Harvest	G90Y04-5222A EZR	5222A	Y	90	AVC,C2,Vi
Hefty	H3542 RIB	VT2P	Y	85	HC
Hefty	H3712 RIB	VT2P	Y	87	HC
Hefty	H3922 RIB	VT2P	Y	89	HC
Hefty	H4032 RIB	VT2P	Y	90	HC
Hefty	H4052	VT2P	N	90	HC
Innotech	IC3983-3220	3220	Y	89	AVC,C2,Vi
Integra	3629 VT2PRIB	VT2P	Y	86	AC,P5V
Integra	4041 VT2PRIB	VT2P	Y	90	AC,P5,SU
Latham	LH 3695 VT2P RIB	VT2P	Y	86	AC,P2
Latham	LH 3827 VT2P RIB	VT2P	Y	88	AC,P2
Latham	LH 3937 VT2P RIB	VT2P	Y	89	AC,P2
Proseed	1790 VT2PRIB	VT2P	Y	90	AVC,C2,Vi
REA	2B851	VT2P	Y	85	AC,P5,B360
REA	2B862	VT2P	Y	86	AC,P5,B360
REA	2B863	VT2P	Y	86	AC,P5,B360
REA	3B903	VT2P	Y	90	AC,P5,B360
Renk	RK297VT2P	VT2P	N	89	AC,P5V
Renk	RK312VT2PRIB	VT2P	Y	90	AC,P2
Renk	RK315VT2P	VT2P	N	90	AC,P2
Rob-See-Co	RC3601-3011A	3011A	N	86	CM,C2,Vi
Thunder	T6185 VT2P	VT2P	Y	85	AC,P2
Thunder	T6190 VT2P	VT2P	Y	90	AC,P2
Thunder	T6888 VT2P	VT2P	Y	88	AC,P2
Thunder	T6987 VT2P	VT2P	Y	87	AC,P2
Thunder	T7188 VT2P	VT2P	Y	88	AC,P2

* 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 Corn - Red River South North Dakota & Minnesota [RRSO]

Full-Season Test Products (40 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
AgriGold	A621-77VT2RIB GC	VT2P	Y	91	AC,P5V
AgriGold	A625-78VT2RIB GC	VT2P	Y	95	AC,P5V
Channel	195-85DGV2PRIB GC	VT2P	Y	95	AC,P5,B360
Dahlman	R47-24VT2PRIB	VT2P	Y	94	AC,P2
Dahlman	R48-28VT2PRIB	VT2P	Y	95	AC,P2
Dairyland	DS-3162Q	QR	Y	91	Lum,P1V
Dairyland	DS-3193AM	AM	Y	91	Lum,P1V
Dairyland	DS-3366AM	AM	Y	93	Lum,P1V
Dairyland	DS-3550AM	AM	Y	95	Lum,P1V
DeKalb	DKC41-99RIB CK	VT2P	Y	91	AC,P2,B360
Dyna-Gro	D35VC35	VT2P	N	95	AC,P5V
Enestvedt	E612RR	RR2	N	92	CM,C2,Vi
Golden Harvest	G91V51-5222A EZR	5222A	Y	91	AVC,C2,Vi
Hefty	H4132	VT2P	N	91	HC
Hefty	H4222 RIB	VT2P	Y	92	HC
Hefty	H4332 RIB	VT2P	Y	93	HC
Hefty	H4522 RIB	VT2P	Y	95	HC
Integra	4119 VT2PRIB	VT2P	Y	91	AC,P2,SU
Integra	4311 VT2PRIB	VT2P	Y	93	AC,P5V,SU
Integra	4509 VT2PRIB	VT2P	Y	95	AC,P2,SU
Latham	LH 4242 VT2P RIB	VT2P	Y	92	AC,P2
Latham	LH 4375 VT2P RIB	VT2P	Y	93	AC,P2
Latham	LH 4454 VT2P RIB	VT2P	Y	94	AC,P2
Latham	LH 4517 VT2P RIB	VT2P	Y	95	AC,P2
Pioneer	P9188AMXT GC	AMXT	Y	91	Lum
Proseed	1794 VT2PRIB	VT2P	Y	94	AVC,C2,Vi
REA	3B912	VT2P	Y	91	AC,P5,B360
REA	4B933	VT2P	Y	93	AC,P5,B360
REA	4B944	VT2P	Y	94	AC,P5,B360
REA	4B958	VT2P	Y	95	AC,P5,B360
Renk	RK429-3220A	3220A	N	93	CM,C2
Renk	RK485DGV2P	VT2PDG	N	94	AC,P5V
Rob-See-Co	RC4166-3110A	3110A	N	91	AVC,C2,Vi
Rob-See-Co	RC4535-3110	3110	N	95	CM,C2,Vi
Stine	9319-10	3010	N	93	Treated
Thunder	T6294 VT2P	VT2P	Y	94	AC,P5,B360
Thunder	T6595 VT2P	VT2P	Y	95	AC,P2
Thunder	T6791 VT2P	VT2P	Y	91	AC,P2
Thunder	T6992 VT2P	VT2P	Y	92	AC,P2
Thunder	T6993 VT2P	VT2P	Y	93	AC,P2

* 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

[^] Innotech™ brand seed is distributed by Rob-See-Co, LLC. Power Plus® brand seed is distributed by Burrus. Innotech™ is a trademark of Syngenta. Power Plus® is a registered trademark of Corteva Agriscience.

CK Identifies a check product included in early- and full-season tests.

GC Grower Comparison product included by FIRST when space permits.

Corn Technologies

3010	Agrisure® 3010
3011A	Agrisure® Artesian® 3011A (CB,RW,LL,GT)
3110	Agrisure® Viptera® 3110 (Vip, CB,LL,GT)
3110A	Agrisure® Artesian® Viptera® 3110 (Vip, CB,LL,GT)
3220	Agrisure® Viptera® 3220 (Vip,CB,HX,LL,GT)
3220A	Agrisure® Artesian® Viptera® 3220 (Vip,CB,HX,LL,GT)
5222	Agrisure® Duracade™ 5222
5222A	Agrisure® Duracade™ Artesian® 5222
AM	Optimum® AcreMax®
AMXT	Optimum® AcreMax® Xtreme
QR	Qrome™
RR2	Roundup Ready® 2 Corn
STX	SmartStax®
VT2P	Genuity® VT Double PRO®
VT2PDG	Genuity® VT Double PRO® DroughtGard®

NOTE: The refuge component genetics may vary in a refuge blend seed product.

Corn Seed Treatments*

NA	Not Available
AC250	Acceleron® 250
AC,P2	Acceleron® 250
AC,P2,B360	Acceleron® 250 with BioRise™ B-360 ST
AC,P2,SU	Acceleron® 250, StepUp
AC,P5,B360	Acceleron® 500 with BioRise™ B-360 ST
AC,P5,SU	Acceleron® 500, StepUp
AC,P5V	Acceleron® Poncho 500/Votivo
AC,P5V,EDC-B	Acceleron® BASIC Poncho 500/Votivo with Enhanced Disease Control
AC,P5V,SU	Acceleron® Poncho 500/Votivo, StepUp
AVC,C2,Vi	Avicta® Complete 250, Vibrance®
CM,C2	CruiserMaxx® 250
CM,C2,Vi	CruiserMaxx® 250 with Vibrance
HC	Hefty Complete
Lum	LumiGEN™ (Corteva Agriscience)
Lum,P1V	LumiGEN™ Poncho 1250/Votivo
Treated	Treated seed, unspecified

* Seed treatments may include unspecified plant health promoting components.