

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

2021 Corn Grain Top 30 Harvest Report

Red River Central North Dakota & Minnesota [RRCE]
GEORGETOWN, MN

WCD Brendemuhl Farms, Curtis Brendemuhl, Clay County,
MN 56560

Early-Season Test 80 - 85 Day CRM
B2021RRCE03a

Top 30 of 32 For Gross Income
(Sorted by Yield)
Average of (4) Replications

PREV. CROP/HERB: Soybeans / Enlist Duo

SOIL DESCRIPTION: Fargo silty clay, poorly drained,
non-irrigated

SOIL CONDITION: Conventional W/ Fall Till, low P,
very high K, 7.1 pH, 3.5% OM,
25.4 CEC

PEST MANAGEMENT: Armezon Pro, Atrazine

FERTILITY - Applied N: 17 Fall, 90 Spring, 2 Planter

Applied N-P-K (units): 109-89-71

SEEDED - RATE - ROW: May 1 34.5 /A 30" spacing

HARVESTED - STAND: Oct 18 33.3 /A

TEST COMMENTS:

Emergence was delayed due to cold and dry conditions with no rainfall for the first couple of weeks after planting. This location was much drier than average but received timely rains when the crop needed it most. At harvest, some products had green stalks, and smut was noticed on a few of the varieties. Most cobs were full close to the tip, with the grain having excellent test weights. Curt was impressed with yields given the dry conditions and said that yields would have been fun to see with some more mid-season rainfall.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank	
Golden Harvest	G80Q01-3220A EZR ↗	3220A	80	216.0	16.9	0	34.0	1127	1	
Rob-See-Co	RC3041-3110A ↗	3110A	80	206.4	17.2	0	33.7	1076	2	
Rob-See-Co	RC3240-GT ↗	GT	82	203.3	16.5	0	33.3	1064	3	
BioGene	BG510AT EZR ↗	3220A	81	201.6	17.2	0	34.4	1051	5	
Golden Harvest	G84J92-3120A EZR ↗	3120A	84	201.4	17.9	0	33.3	1046	7	
Latham	LH 3325 VT2P RIB ↗	VT2P	83	200.8	16.0	0	33.7	1053	4	
Rob-See-Co	RC3418-3220A ↗	3220A	84	199.8	16.0	0	32.9	1048	6	
Proseed	1882 VT2PRIB ↗	VT2P	82	199.2	15.9	0	33.3	1045	8	
Thunder	T6782 VT2P ↗	VT2P	82	196.7	16.2	0	32.9	1031	9	
Golden Harvest	G85Z56-3220 EZR ↗	3220	85	195.9	16.9	0	33.7	1023	10	
BioGene	BG520V2 RIB ↗	VT2P	82	191.6	16.5	0	33.3	1002	12	
Dyna-Gro	D23VC83 ↗	VT2P	83	191.1	15.6	0	33.7	1004	11	
Integra	3431 VT2PRIB ↗	VT2P	84	190.5	15.9	0	34.0	1000	13	
Hefty	H3322 RIB ↗	VT2P	83	186.5	16.5	0	33.3	975	17	
Thunder	T6085 VT2P ↗	VT2P	85	186.4	15.2	0	33.3	981	15	
Renk	RK227VT2P ↗	VT2P	82	186.0	15.4	0	32.9	978	16	
REA	2B851 ↗	VT2P	85	184.3	15.8	0	32.9	967	18	
Thunder	T6983 VT2P ↗	VT2P	83	182.2	16.1	0	34.4	955	19	
BioGene	BG512V2 RIB ↗	VT2P	81	181.8	16.0	0	33.7	953	21	
Renk	RK256-3120-EZ ↗	3120	84	181.6	16.8	0	32.9	949	22	
Thunder	T6185 VT2P ↗	VT2P	85	181.6	15.7	0	33.3	954	20	
REA	2B863 ↗	VT2P	86	180.2	16.4	0	33.7	943	24	
Latham	LH 2977 VT2P RIB ↗	VT2P	79	179.2	14.8	0	34.4	944	23	
REA	2B862 ↗	VT2P	86	179.0	15.9	0	33.7	939	25	
Hefty	H3442 RIB ↗	VT2P	84	178.0	15.2	0	33.3	937	26	
Thunder	T6181 VT2P ↗	VT2P	81	177.2	15.4	0	32.2	932	27	
Hefty	H3542 RIB ↗	VT2P	85	168.6	16.2	0	32.9	884	28	
Hefty	H3042 RIB ↗	VT2P	80	168.4	15.9	0	32.9	884	29	
Latham	LH 3397 VT2P RIB ↗	VT2P	83	164.8	15.4	0	32.5	867	30	
Hefty	H2842 RIB ↗	VT2P	80	135.9	16.2	0	33.3	712	31	
DeKalb	DKC36-86RIB CK	VT2P	86	190.1	15.8	0	32.9	998	14	
				Averages =	184.8	16.1	33.3	969		
				LSD (0.10) =	13.2	0.6	ns			
				LSD (0.25) =	6.9	0.3	ns			
				C.V. =	7.8					
Luke Brendemuhl				Historic yield: 174.38 bu/a, 3 yr(s)						
luke.brendemuhl@firstseedtests.com, (218) 790-4497										

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$5.27

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 Central North Dakota & Minnesota [RRCE]
GEORGETOWN, MN

WCD Brendemuhl Farms, Curtis Brendemuhl, Clay County,
MN 56560

Full-Season Test 86 - 90 Day CRM
B2021RRCE03b

Top 30 of 32 For Gross Income
(Sorted by Yield)
Average of (4) Replications

PREV. CROP/HERB: Soybeans / Enlist Duo
SOIL DESCRIPTION: Fargo silty clay, poorly drained,
non-irrigated
SOIL CONDITION: Conventional W/ Fall Till, low P,
very high K, 7.1 pH, 3.5% OM,
25.4 CEC
PEST MANAGEMENT: Armezon Pro, Atrazine
FERTILITY - Applied N: 17 Fall, 90 Spring, 2 Planter
Applied N-P-K (units): 109-89-71
SEEDED - RATE - ROW: May 1 34.5 /A 30" spacing
HARVESTED - STAND: Oct 18 33.2 /A

TEST COMMENTS:

Emergence was delayed due to cold and dry conditions with no rainfall for the first couple of weeks after planting. This location was much drier than average but received timely rains when the crop needed it most. At harvest, some products had green stalks, and smut was noticed on a few of the varieties. Most cobs were full close to the tip, with the grain having excellent test weights. Curt was impressed with yields given the dry conditions and said that yields would have been fun to see with some more mid-season rainfall.

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	234.7	19.5	0	33.9	1211	1	
Rob-See-Co	RC3601-3011A ↗	3011A	86	226.1	18.2	0	33.9	1174	2	
REA	3B912 ↗	VT2P	91	222.9	16.9	0	34.0	1164	3	
Dairyland	DS-3022AM ↗	AM	90	220.3	18.0	0	33.3	1144	4	
REA	3B903 ↗	VT2P	90	215.8	17.3	0	32.9	1125	5	
Renk	RK312VT2PRIB ↗	VT2P	90	212.2	17.0	0	33.7	1108	6	
Latham	LH 3827 VT2P RIB ↗	VT2P	88	210.0	17.4	0	34.0	1094	7	
Dairyland	DS-2828AM ↗	AM	88	209.4	18.1	0	34.4	1087	8	
Channel	189-64STXRIB GC ↗	STX	89	205.7	17.7	0	34.4	1070	9	
Hefty	H4052 ↗	VT2P	90	203.9	17.8	0	33.7	1060	11	
Latham	LH 3695 VT2P RIB ↗	VT2P	86	202.7	17.1	0	33.7	1058	12	
Latham	LH 3937 VT2P RIB ↗	VT2P	89	200.9	18.5	0	34.0	1041	15	
Hefty	H3712 RIB ↗	VT2P	87	200.9	16.2	0	34.0	1053	13	
Golden Harvest	G90S99-5222 EZR ↗	5222	90	200.9	18.2	0	34.0	1043	14	
Innotech	IC3983-3220 ↗	3220	89	199.7	18.6	0	32.9	1035	17	
AgriGold	A617-78VT2RIB GC ↗	VT2P	87	199.2	17.3	0	33.3	1038	16	
Channel	187-20VT2PRIB GC ↗	VT2P	87	198.3	17.3	0	31.8	1033	19	
Proseed	1787 VT2PRIB ↗	VT2P	87	198.1	16.8	0	32.9	1035	18	
Renk	RK315VT2P ↗	VT2P	90	197.1	16.6	0	32.9	1031	20	
Stine	9202-G ↗	3011A	86	197.0	17.5	0	32.5	1026	21	
Integra	3629 VT2PRIB ↗	VT2P	86	194.1	17.1	0	33.7	1013	22	
Hefty	H3922 RIB ↗	VT2P	89	193.5	18.2	0	32.2	1005	24	
Thunder	T6190 VT2P ↗	VT2P	90	192.6	16.9	0	32.5	1006	23	
Renk	RK297VT2P ↗	VT2P	89	191.0	17.2	0	33.3	996	25	
Dyna-Gro	D27VC87 ↗	VT2P	87	190.1	17.3	0	33.7	991	26	
Integra	4041 VT2PRIB ↗	VT2P	90	188.0	17.3	0	31.8	980	27	
Thunder	T6888 VT2P ↗	VT2P	88	185.2	17.3	0	33.7	965	28	
Hefty	H4032 RIB ↗	VT2P	90	182.5	17.0	0	31.0	953	29	
Thunder	T6987 VT2P ↗	VT2P	87	173.3	17.4	0	33.3	903	30	
Thunder	T7188 VT2P ↗	VT2P	88	166.1	17.4	0	33.7	865	31	
DeKalb	DKC36-86RIB CK	VT2P	86	204.6	16.5	0	33.7	1070	10	
				Averages =	198.9	17.4	33.2	1038		
				LSD (0.10) =	11.2	0.6	ns			
				LSD (0.25) =	5.9	0.3	ns			
Luke Brendemuhl				C.V. =	6.2	Historic yield: 174.38 bu/a, 3 yr(s)				

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$5.27

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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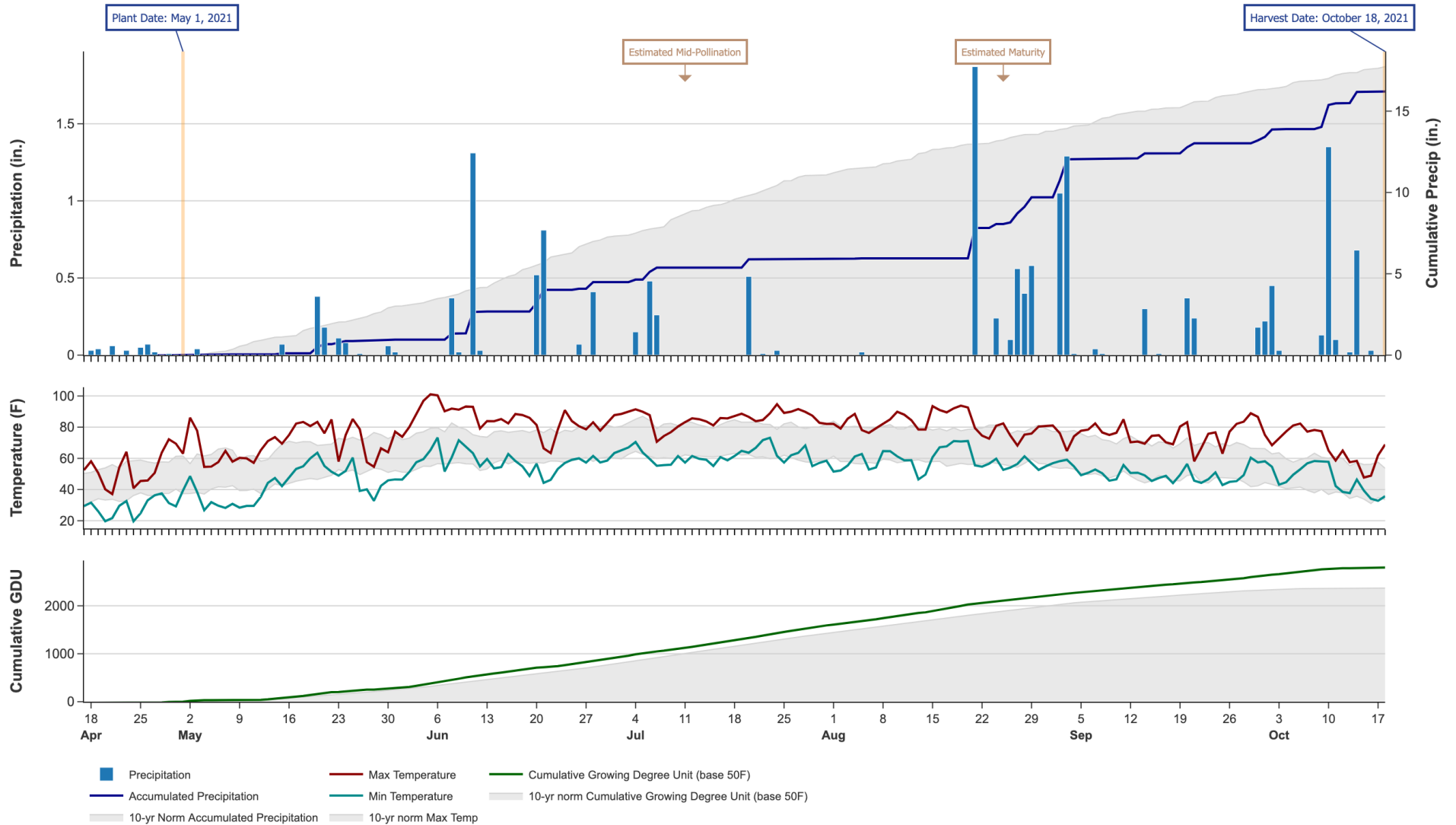
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2021 Corn - Red River Central North Dakota & Minnesota [RRCE]

Weather Conditions Summary at GEORGETOWN, MN

Weather Data Retrieved: 10/19/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	0.3 1.0 (-0.7)	0.9 3.1 (-2.1)	3.5 4.2 (-0.7)	1.4 3.8 (-2.4)	3.8 2.7 (+1.1)	3.5 2.5 (+1.0)	3.0 1.4 (+1.6)	16.5 18.8 (-2.2)
GDU Normal (Diff)	18 5 (+12)	288 249 (+38)	601 515 (+85)	708 662 (+45)	615 571 (+43)	415 327 (+87)	176 42 (+133)	2821 2374 (+446)



* 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 Central North Dakota & Minnesota [RRCE]

Early-Season Test Products (32 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
BioGene	BG510AT EZR	3220A	Y	81	CM,C2,Vi
BioGene	BG512V2 RIB	VT2P	Y	81	AC250
BioGene	BG520V2 RIB	VT2P	Y	82	AC250
DeKalb	DKC36-86RIB CK	VT2P	Y	86	AC,P5V,EDC-EL
Dyna-Gro	D23VC83	VT2P	N	83	AC,P5V
Golden Harvest	G80Q01-3220A EZR	3220A	Y	80	AVC,C5,Vi
Golden Harvest	G84J92-3120A EZR	3120A	Y	84	AVC,C2,Vi
Golden Harvest	G85Z56-3220 EZR	3220	Y	85	AVC,C2,Vi
Hefty	H2842 RIB	VT2P	Y	80	HC
Hefty	H3042 RIB	VT2P	Y	80	HC
Hefty	H3322 RIB	VT2P	Y	83	HC
Hefty	H3442 RIB	VT2P	Y	84	HC
Hefty	H3542 RIB	VT2P	Y	85	HC
Integra	3009 VT2PRIB	VT2P	Y	80	AC,P5V,SU
Integra	3431 VT2PRIB	VT2P	Y	84	AC,P5V,SU
Latham	LH 2977 VT2P RIB	VT2P	Y	79	AC,P2
Latham	LH 3325 VT2P RIB	VT2P	Y	83	AC,P2
Latham	LH 3397 VT2P RIB	VT2P	Y	83	AC,P2
Proseed	1882 VT2PRIB	VT2P	Y	82	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
Renk	RK227VT2P	VT2P	N	82	AC,P2
Renk	RK256-3120-EZ	3120	Y	84	CM,C2
Rob-See-Co	RC3041-3110A	3110A	N	80	CM,C2,Vi
Rob-See-Co	RC3240-GT	GT	N	82	CM,C2,Vi
Rob-See-Co	RC3418-3220A	3220A	Y	84	CM,C2,Vi
Thunder	T6085 VT2P	VT2P	Y	85	AC,P2
Thunder	T6181 VT2P	VT2P	Y	81	AC,P2
Thunder	T6185 VT2P	VT2P	Y	85	AC,P2
Thunder	T6782 VT2P	VT2P	Y	82	AC,P2
Thunder	T6983 VT2P	VT2P	Y	83	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 Central North Dakota & Minnesota [RRCE]

Full-Season Test Products (32 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
AgriGold	A617-78VT2RIB GC	VT2P	Y	87	AC,P5V
Channel	187-20VT2PRIB GC	VT2P	Y	87	AC,P5,B360
Channel	189-64STXRIB GC	STX	Y	89	AC,P5V,B-360
Dairyland	DS-2828AM	AM	Y	88	Lum
Dairyland	DS-3022AM	AM	Y	90	Lum,P1V
DeKalb	DKC36-86RIB CK	VT2P	Y	86	AC,P5V,EDC-EL
Dyna-Gro	D27VC87	VT2P	N	87	AC,P5V
Golden Harvest	G90S99-5222 EZR	5222	Y	90	AVC,C2,Vi
Golden Harvest	G90Y04-5222A EZR	5222A	Y	90	AVC,C2,Vi
Hefty	H3632 RIB	VT2P	Y	86	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	1787 VT2PRIB	VT2P	Y	87	AVC,C2,Vi
REA	3B903	VT2P	Y	90	AC,P5,B360
REA	3B912	VT2P	Y	91	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
Stine	9202-G	3011A	N	86	Treated
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.

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

3011A Agrisure® Artesian® 3011A (CB,RW,LL,GT)

3110A Agrisure® Artesian® Viptera® 3110 (Vip, CB,LL,GT)

3120 Agrisure® 3120 (CB,HX,LL,GT)

3120A Agrisure® Artesian® 3120 (CB,HX,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®

GT Agrisure® GT

STX SmartStax®

VT2P Genuity® VT Double PRO®

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,P5,B360	Acceleron® 500 with BioRise™ B-360 ST
AC,P5,SU	Acceleron® 500, StepUp
AC,P5V	Acceleron® Poncho 500/Votivo
AC,P5V,B-360	Acceleron® Poncho 500/Votivo with B-360 SAT
AC,P5V,EDC-EL	Acceleron® ELITE Poncho 500/Votivo with Enhanced Disease Control
AC,P5V,SU	Acceleron® Poncho 500/Votivo, StepUp
AVC,C2,Vi	Avicta® Complete 250, Vibrance®
AVC,C5,Vi	Avicta® Complete 500, 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.