

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] EAST
GRAND FORKS, MN

Matthew Krueger, Polk County, MN 56721

Early-Season Test 80 - 85 Day CRM
B2021RRCE05a

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

PREV. CROP/HERB: Soybeans / Dicamba

SOIL DESCRIPTION: Bearden-Colvin silty clay loam,
mod. poorly drained, non-
irrigated

SOIL CONDITION: Conventional W/ Fall Till, very
low P, medium K, 8.2 pH, 6.1%
OM, 34.8 CEC

PEST MANAGEMENT: Roundup, Atrazine, Laudis

FERTILITY - Applied N: 190 Spring

Applied N-P-K (units): 190-62-29

SEEDED - RATE - ROW: May 7 34.5 /A 30" spacing

HARVESTED - STAND: Oct 20 31.7 /A

TEST COMMENTS:

The plot was planted in cold conditions, with the nightly low temps being in the upper 20's for the first week after seeding. The month of July was the driest in this area, but heavier soils that received a few more shots of rain fared better. Stalk lodging was noticed in a few varieties, more so in the early season test. Matt said that corn yields on his farm were doing well with excellent test weights, with higher yields seen on the Minnesota side of the Red River.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank	
Rob-See-Co	RC3240-GT ↗	GT	82	206.5	17.5	1	33.3	1055	1	
Golden Harvest	G84J92-3120A EZR ↗	3120A	84	200.6	20.2	1	32.2	1011	4	
Thunder	T6983 VT2P ↗	VT2P	83	199.5	17.8	0	32.5	1017	3	
Dyna-Gro	D23VC83 ↗	VT2P	83	197.2	16.8	0	31.4	1011	5	
REA	2B862 ↗	VT2P	86	193.1	18.3	0	30.3	982	6	
Integra	3431 VT2PRIB ↗	VT2P	84	191.6	18.7	0	32.2	973	7	
Hefty	H3442 RIB ↗	VT2P	84	190.2	18.1	0	33.3	969	8	
Hefty	H3542 RIB ↗	VT2P	85	189.3	17.8	0	31.4	965	10	
Hefty	H3042 RIB ↗	VT2P	80	189.1	17.0	2	32.9	968	9	
Latham	LH 3325 VT2P RIB ↗	VT2P	83	189.0	18.8	0	30.7	959	11	
Renk	RK256-3120-EZ ↗	3120	84	186.0	19.7	0	30.7	940	14	
BioGene	BG512V2 RIB ↗	VT2P	81	185.7	18.1	4	32.5	946	12	
Rob-See-Co	RC3418-3220A ↗	3220A	84	184.7	17.6	0	31.4	943	13	
Proseed	1882 VT2PRIB ↗	VT2P	82	184.5	18.6	0	31.0	937	15	
Golden Harvest	G85Z56-3220 EZR ↗	3220	85	183.9	18.7	1	30.3	934	17	
REA	2B851 ↗	VT2P	85	183.1	17.3	0	33.3	936	16	
BioGene	BG520V2 RIB ↗	VT2P	82	182.0	18.5	0	32.2	925	18	
REA	2B863 ↗	VT2P	86	181.2	18.2	3	29.9	922	19	
Thunder	T6085 VT2P ↗	VT2P	85	180.6	17.7	0	31.8	922	20	
Hefty	H3322 RIB ↗	VT2P	83	179.0	18.8	2	31.4	909	21	
Thunder	T6185 VT2P ↗	VT2P	85	178.9	18.7	2	31.0	908	22	
Renk	RK227VT2P ↗	VT2P	82	177.7	18.1	0	32.2	905	24	
Thunder	T6181 VT2P ↗	VT2P	81	176.7	16.7	0	31.0	906	23	
Thunder	T6782 VT2P ↗	VT2P	82	176.4	17.8	1	31.8	899	26	
Latham	LH 2977 VT2P RIB ↗	VT2P	79	175.1	15.0	0	32.9	905	25	
Golden Harvest	G80Q01-3220A EZR ↗	3220A	80	168.1	19.7	9	32.2	850	27	
Latham	LH 3397 VT2P RIB ↗	VT2P	83	159.6	16.4	3	32.2	820	28	
Rob-See-Co	RC3041-3110A ↗	3110A	80	155.0	18.5	23	30.7	787	29	
Integra	3009 VT2PRIB ↗	VT2P	80	144.0	17.0	15	32.2	737	30	
Hefty	H2842 RIB ↗	VT2P	80	140.6	15.5	2	28.4	725	31	
DeKalb	DKC36-86RIB CK	VT2P	86	201.5	19.0	0	32.9	1022	2	
				Averages =	180.3	17.9	3	31.7	919	
				LSD (0.10) =	14.7	0.9	6			
				LSD (0.25) =	7.7	0.4	3			
				C.V. =	8.9					
Luke Brendemuhl				Historic yield: 148.33 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 = \$5.17

Report Date: 10/20/2021

† 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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Matthew Krueger, Polk County, MN 56721

Full-Season Test 86 - 90 Day CRM
B2021RRCE05b

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(Sorted by Yield)
Average of (4) Replications

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FERTILITY - Applied N: 190 Spring

Applied N-P-K (units): 190-62-29

SEEDED - RATE - ROW: May 7 34.5 /A 30" spacing

HARVESTED - STAND: Oct 20 32.0 /A

TEST COMMENTS:

The plot was planted in cold conditions, with the nightly low temps being in the upper 20's for the first week after seeding. The month of July was the driest in this area, but heavier soils that received a few more shots of rain fared better. Stalk lodging was noticed in a few varieties, more so in the early season test. Matt said that corn yields on his farm were doing well with excellent test weights, with higher yields seen on the Minnesota side of the Red River.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank	
Dairyland	DS-3022AM ↗	AM	90	229.5	22.5	0	31.4	1144	1	
Integra	4041 VT2PRIB ↗	VT2P	90	228.1	22.8	0	31.8	1135	2	
REA	3B912 ↗	VT2P	91	226.0	22.8	0	31.4	1124	3	
Dyna-Gro	D27VC87 ↗	VT2P	87	220.1	23.0	0	33.9	1094	5	
Dairyland	DS-2828AM ↗	AM	88	220.0	20.0	0	32.5	1109	4	
Latham	LH 3937 VT2P RIB ↗	VT2P	89	218.7	22.7	0	32.2	1088	7	
Latham	LH 3827 VT2P RIB ↗	VT2P	88	217.7	23.1	0	33.3	1081	9	
REA	3B903 ↗	VT2P	90	217.2	20.9	0	32.5	1091	6	
Rob-See-Co	RC3601-3011A ↗	3011A	86	216.4	21.2	0	32.9	1085	8	
Renk	RK315VT2P ↗	VT2P	90	214.9	23.4	2	32.2	1066	12	
Renk	RK312VT2PRIB ↗	VT2P	90	214.6	21.9	0	30.3	1072	10	
Hefty	H3712 RIB ↗	VT2P	87	214.3	21.8	0	32.2	1071	11	
Hefty	H4052 ↗	VT2P	90	213.3	25.5	0	30.3	1047	13	
Renk	RK297VT2P ↗	VT2P	89	208.0	21.7	0	33.3	1040	14	
Thunder	T6190 VT2P ↗	VT2P	90	204.8	22.6	0	32.9	1020	16	
Proseed	1787 VT2PRIB ↗	VT2P	87	202.2	22.0	0	33.3	1010	17	
Channel	189-64STXRIB GC ↗	STX	89	202.1	23.4	0	31.8	1003	18	
Integra	3629 VT2PRIB ↗	VT2P	86	201.4	22.5	0	32.2	1003	19	
Golden Harvest	G90S99-5222 EZR ↗	5222	90	197.8	23.1	7	34.0	983	23	
Latham	LH 3695 VT2P RIB ↗	VT2P	86	197.7	22.5	0	33.7	985	21	
Golden Harvest	G90Y04-5222A EZR ↗	5222A	90	197.4	25.1	7	33.3	971	25	
Channel	187-20VT2PRIB GC ↗	VT2P	87	197.3	22.1	0	30.7	985	22	
Stine	9202-G ↗	3011A	86	197.1	21.6	0	32.2	986	20	
Thunder	T6888 VT2P ↗	VT2P	88	195.8	22.3	0	31.0	977	24	
Hefty	H4032 RIB ↗	VT2P	90	194.1	22.7	0	28.4	966	26	
Hefty	H3922 RIB ↗	VT2P	89	192.0	21.6	0	31.8	961	27	
Innotech	IC3983-3220 ↗	3220	89	189.1	22.6	23	33.3	942	28	
Thunder	T6987 VT2P ↗	VT2P	87	176.0	19.7	0	32.2	889	29	
Thunder	T7188 VT2P ↗	VT2P	88	172.6	21.4	0	30.3	865	30	
AgriGold	A617-78VT2RIB GC ↗	VT2P	87	168.4	19.2	0	31.4	853	31	
DeKalb	DKC36-86RIB CK	VT2P	86	205.7	21.8	0	31.4	1029	15	
				Averages =	203.9	22.2	1	32.0	1016	
				LSD (0.10) =	9.6	1.1	4			
				LSD (0.25) =	5.1	0.6	2			
				C.V. =	5.2					
Luke Brendemuhl				Historic yield: 148.33 bu/a, 3 yr(s)						
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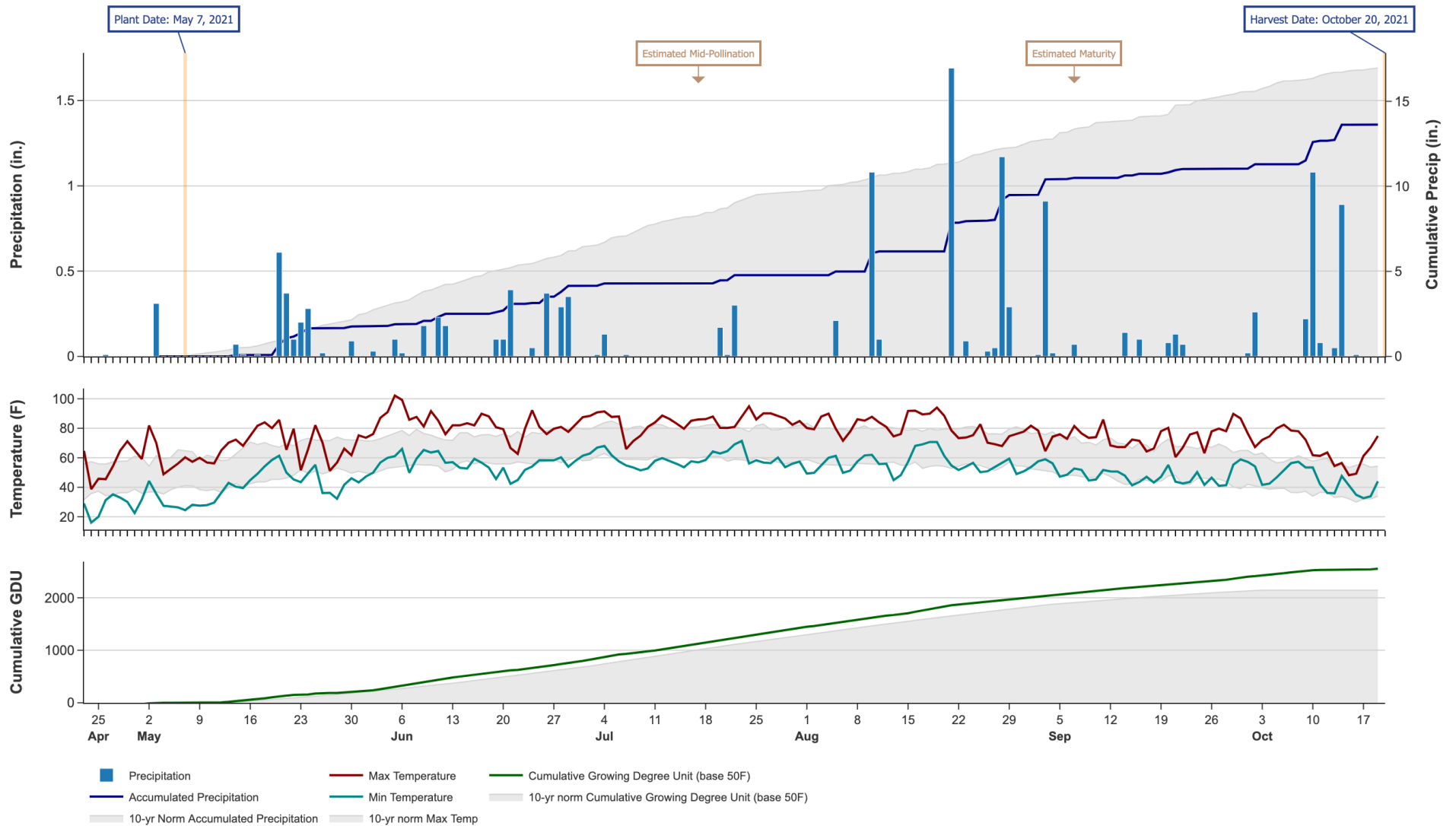
Additional reports available at www.firstseedtests.com

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

Weather Conditions Summary at EAST GRAND FORKS, MN

Weather Data Retrieved: 10/20/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	0.0 0.6 (-0.6)	2.1 2.8 (-0.7)	2.4 3.8 (-1.4)	0.6 3.5 (-2.8)	4.7 2.8 (+1.9)	1.5 3.1 (-1.5)	2.6 1.4 (+1.2)	13.9 17.9 (-3.9)
GDU Normal (Diff)	11 5 (+5)	240 208 (+31)	560 467 (+92)	659 622 (+36)	562 537 (+24)	390 304 (+85)	168 20 (+147)	2590 2165 (+424)



* 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.