

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]  
LITCHVILLE, ND  
Mark Formo, Barnes County, ND 58461

**Early-Season Test** 85 - 90 Day CRM  
B2021RRSO01a

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

**PREV. CROP/HERB:** Soybeans / Dicamba

**SOIL DESCRIPTION:** Barnes-Svea loam, well drained,  
non-irrigated

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

**PEST MANAGEMENT:** Capreno, Roundup

**FERTILITY - Applied N:** 17 Spring, 60 Sidedress

**Applied N-P-K (units):** 77-78-36

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

**HARVESTED - STAND:** Nov 8 33.0 /A

### TEST COMMENTS:

The plot was planted into dry conditions shortly after the surrounding field. This location finished the year above average for rainfall, but July was much drier than normal. Mark said that pollination was stressful for the corn crop, given the hot and dry conditions during that time. Cobs in the plot were large, with some hybrids having 18-20 kernels around. High winds a week before plot harvest caused stalk lodging, but lodged plants were not flat to the ground.

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	<b>247.5</b>	19.8	11	33.7	1282	1	
Channel	189-64STXRIB GC ↗	STX	89	<b>240.7</b>	18.5	0	33.4	1255	2	
Innotech	IC3983-3220 ↗	3220	89	<b>238.2</b>	19.2	13	33.7	1237	3	
Latham	LH 3827 VT2P RIB ↗	VT2P	88	<b>231.8</b>	16.8	0	33.3	1218	4	
Dyna-Gro	D27VC87 ↗	VT2P	87	<b>231.2</b>	18.1	0	33.9	1207	6	
Integra	4041 VT2PRIB ↗	VT2P	90	<b>231.0</b>	17.8	0	32.9	1208	5	
AgriGold	A615-64VT2RIB GC ↗	VT2P	85	229.1	17.6	1	32.9	1200	7	
Latham	LH 3937 VT2P RIB ↗	VT2P	89	227.2	18.5	1	34.0	1185	8	
Renk	RK297VT2P ↗	VT2P	89	225.8	17.2	0	32.9	1184	9	
Renk	RK312VT2PRIB ↗	VT2P	90	225.0	17.9	0	33.3	1176	11	
Golden Harvest	G90S99-5222 EZR ↗	5222	90	224.3	18.1	8	33.7	1171	12	
Thunder	T6190 VT2P ↗	VT2P	90	223.4	17.8	0	34.0	1169	13	
Dairyland	DS-3022AM ↗	AM	90	223.3	18.4	12	31.8	1164	15	
Renk	RK315VT2P ↗	VT2P	90	222.9	17.5	0	34.0	1168	14	
REA	3B903 ↗	VT2P	90	220.6	17.1	0	32.2	1157	16	
Dairyland	DS-2828AM ↗	AM	88	219.7	17.5	0	31.4	1151	17	
Golden Harvest	G85Z56-3220 EZR ↗	3220	85	216.2	16.7	3	32.2	1137	18	
Latham	LH 3695 VT2P RIB ↗	VT2P	86	214.2	17.2	1	33.3	1123	19	
Rob-See-Co	RC3601-3011A ↗	3011A	86	213.0	19.0	2	32.9	1107	21	
Integra	3629 VT2PRIB ↗	VT2P	86	212.0	17.9	1	32.9	1108	20	
Dahlman	R45-25VT2PRIB ↗	VT2P	90	209.9	17.0	0	32.2	1102	23	
REA	2B862 ↗	VT2P	86	209.9	16.5	0	32.9	1105	22	
REA	2B863 ↗	VT2P	86	209.3	17.5	1	33.9	1096	24	
Hefty	H3712 RIB ↗	VT2P	87	209.2	17.6	1	30.7	1095	25	
Hefty	H3922 RIB ↗	VT2P	89	208.1	17.8	0	33.3	1089	26	
Proseed	1790 VT2PRIB ↗	VT2P	90	205.7	17.5	0	33.7	1078	27	
Hefty	H4052 ↗	VT2P	90	204.1	18.4	1	33.3	1065	30	
Thunder	T6987 VT2P ↗	VT2P	87	203.6	17.5	0	33.4	1066	29	
Hefty	H3542 RIB ↗	VT2P	85	203.5	16.5	0	34.0	1071	28	
Thunder	T6888 VT2P ↗	VT2P	88	203.1	17.3	1	33.3	1065	31	
DeKalb	DKC41-99RIB CK	VT2P	91	226.0	18.0	1	33.3	1181	10	
				<b>Averages =</b>	<b>215.4</b>	<b>17.6</b>	<b>2</b>	<b>33.0</b>	<b>1126</b>	
				<b>LSD (0.10) =</b>	15.4	0.8	4			
				<b>LSD (0.25) =</b>	8.1	0.4	2			
				<b>C.V. =</b>	7.8					
Luke Brendemuhl				Historic yield: 185.76 bu/a, 4 yr(s)						
luke.brendemuhl@firstseedtests.com, (218) 790-4497										

**Yield & Income Factors:** Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$5.30

Report Date: 11/09/2021

† 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

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LITCHVILLE, ND  
Mark Formo, Barnes County, ND 58461

<b>Full-Season Test</b>	<b>91 - 95</b> Day CRM B2021RRSO01b
<b>Top 30 of 40</b>	For Gross Income (Sorted by Yield) Average of (4) Replications
<b>PREV. CROP/HERB:</b>	Soybeans / Dicamba
<b>SOIL DESCRIPTION:</b>	Barnes-Svea loam, well drained, non-irrigated
<b>SOIL CONDITION:</b>	Conventional W/O Fall Till, low P, very high K, 7.1 pH, 3.5% OM, 25.4 CEC
<b>PEST MANAGEMENT:</b>	Capreno, Roundup
<b>FERTILITY - Applied N:</b>	17 Spring, 60 Sidedress
<b>Applied N-P-K (units):</b>	77-78-36
<b>SEEDED - RATE - ROW:</b>	May 3 34.5 /A 30" spacing
<b>HARVESTED - STAND:</b>	Nov 8 32.9 /A

### TEST COMMENTS:

The plot was planted into dry conditions shortly after the surrounding field. This location finished the year above average for rainfall, but July was much drier than normal. Mark said that pollination was stressful for the corn crop, given the hot and dry conditions during that time. Cobs in the plot were large, with some hybrids having 18-20 kernels around. High winds a week before plot harvest caused stalk lodging, but lodged plants were not flat to the ground.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Hefty	H4522 RIB ↗	VT2P	95	<b>261.3</b>	19.9	0	32.9	1353	1
Renk	RK429-3220A ↗	3220A	93	<b>251.9</b>	19.1	19	32.9	1309	2
Rob-See-Co	RC4535-3110 ↗	3110	95	<b>251.1</b>	19.1	0	31.8	1305	3
Channel	195-85DGV2PRIB GC ↗	VT2P	95	<b>250.4</b>	19.2	1	33.3	1301	4
Dahlman	R47-24VT2PRIB ↗	VT2P	94	<b>244.1</b>	18.5	1	32.9	1273	5
Latham	LH 4517 VT2P RIB ↗	VT2P	95	<b>241.6</b>	19.2	5	33.3	1255	6
AgriGold	A625-78VT2RIB GC ↗	VT2P	95	<b>241.5</b>	19.6	0	32.9	1252	7
Golden Harvest	G91V51-5222A EZR ↗	5222A	91	<b>238.7</b>	18.5	1	33.7	1244	8
Hefty	H4332 RIB ↗	VT2P	93	236.6	18.1	0	31.9	1235	9
Renk	RK485DGV2P ↗	VT2PDG	94	234.7	19.8	1	32.9	1216	10
Thunder	T6993 VT2P ↗	VT2P	93	231.5	18.8	1	33.7	1205	11
Thunder	T6791 VT2P ↗	VT2P	91	230.9	18.8	0	33.7	1202	12
Enestvedt	E612RR ↗	RR2	92	227.6	18.8	0	33.7	1185	13
Integra	4509 VT2PRIB ↗	VT2P	95	226.6	20.0	1	33.7	1173	16
REA	4B958 ↗	VT2P	95	226.3	18.8	0	32.2	1178	14
Rob-See-Co	RC4166-3110A ↗	3110A	91	224.7	18.0	3	30.3	1174	15
Thunder	T6294 VT2P ↗	VT2P	94	223.5	19.4	1	33.7	1160	18
Latham	LH 4454 VT2P RIB ↗	VT2P	94	222.9	19.3	0	31.8	1157	19
REA	3B912 ↗	VT2P	91	222.9	17.6	0	34.0	1166	17
Latham	LH 4242 VT2P RIB ↗	VT2P	92	222.3	18.9	0	31.8	1157	20
Dairyland	DS-3162Q ↗	QR	91	217.8	18.2	2	32.9	1137	21
REA	4B933 ↗	VT2P	93	217.3	18.0	0	32.5	1135	22
Integra	4119 VT2PRIB ↗	VT2P	91	215.8	18.4	1	32.2	1125	23
Dahlman	R48-28VT2PRIB ↗	VT2P	95	215.4	19.1	6	33.7	1119	25
Integra	4311 VT2PRIB ↗	VT2P	93	214.8	18.2	1	33.7	1121	24
REA	4B944 ↗	VT2P	94	214.8	19.0	0	32.5	1117	27
Latham	LH 4375 VT2P RIB ↗	VT2P	93	214.1	18.1	1	32.4	1118	26
Stine	9319-10 ↗	3010	93	213.3	18.9	18	33.3	1109	28
Hefty	H4222 RIB ↗	VT2P	92	211.5	18.4	0	32.9	1103	29
Proseed	1794 VT2PRIB ↗	VT2P	94	210.6	19.1	0	31.4	1095	30
DeKalb	DKC41-99RIB CK	VT2P	91	197.6	17.8	0	33.7	1034	40
				<b>Averages =</b>	<b>222.2</b>	<b>18.7</b>	<b>3</b>	<b>32.9</b>	<b>1158</b>
				LSD (0.10) =	15.5	0.6	6		
				LSD (0.25) =	8.1	0.3	3		
				C.V. =	7.6				
Luke Brendemuhl				Historic yield: 185.76 bu/a, 4 yr(s)					
luke.brendemuhl@firstseedtests.com, (218) 790-4497									

**Yield & Income Factors:** Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$5.30

Report Date: 11/09/2021

† 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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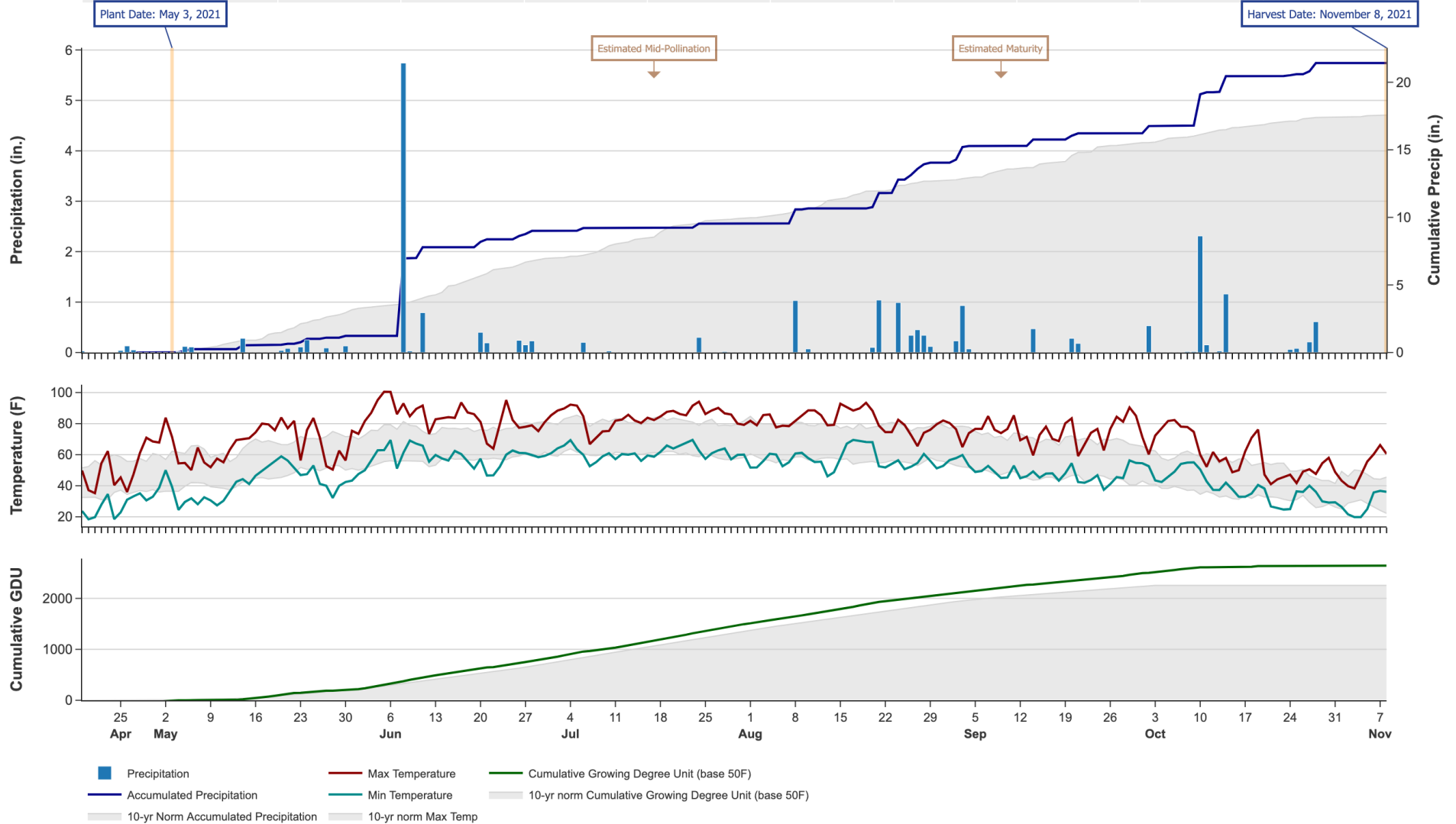
Additional reports available at [www.firstseedtests.com](http://www.firstseedtests.com)

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

## Weather Conditions Summary at LITCHVILLE, ND

Weather Data Retrieved: 11/09/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct	Nov*	Total
Precip (in)   Normal (Diff)	0.2   0.9 (-0.7)	1.2   3.3 (-2.0)	7.8   3.8 (+4.0)	0.6   3.0 (-2.4)	4.5   2.8 (+1.7)	2.2   2.8 (-0.6)	5.2   1.9 (+3.3)	0.0   0.1 (-0.1)	21.7   18.6 (+3.1)
GDU   Normal (Diff)	20   0 (+20)	244   211 (+32)	600   500 (+99)	687   646 (+40)	587   549 (+37)	400   326 (+73)	152   20 (+131)	8   0 (+8)	2698   2254 (+443)



\* 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

<sup>^</sup> 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

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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®

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

## Corn Seed Treatments\*

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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

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\* Seed treatments may include unspecified plant health promoting components.