

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] DORAN, MN

Bruce Yaggie, Wilkin County, MN 56520

Early-Season Test 85 - 90 Day CRM B2021RRSO05a

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

PREV. CROP/HERB: Soybeans / Liberty
SOIL DESCRIPTION: Hamerly clay loam, moderately drained, non-irrigated

SOIL CONDITION: Conventional W/ Fall Till, low P, medium K, 7.7 pH, 3.3% OM, 26.4 CEC

PEST MANAGEMENT: Roundup, Atrazine

FERTILITY - Applied N: 120 Spring, 60 Sidedress

Applied N-P-K (units): 180-65-70

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

HARVESTED - STAND: Nov 4 33.2 /A

TEST COMMENTS:

This location had more timely rains than most of our other plots. A few good rains around and after pollination helped this plot perform very well. Many hybrids had cobs that were 18-20 kernels around, with high test weight. There was very minimal lodging due to high winds a week before harvest, but overall, stalks were very strong.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Rob-See-Co	RC3601-3011A ↗	3011A	86	239.2	17.2	0	32.9	1295	1
REA	3B903 ↗	VT2P	90	234.5	15.8	0	33.3	1278	2
Latham	LH 3937 VT2P RIB ↗	VT2P	89	233.8	16.5	0	33.3	1270	3
Latham	LH 3827 VT2P RIB ↗	VT2P	88	233.3	16.1	0	33.7	1269	4
Renk	RK312VT2PRIB ↗	VT2P	90	230.8	16.4	0	34.0	1255	5
Golden Harvest	G90Y04-5222A EZR ↗	5222A	90	230.8	17.2	0	32.9	1250	6
Integra	4041 VT2PRIB ↗	VT2P	90	226.3	16.7	0	32.5	1228	7
Dairyland	DS-2828AM ↗	AM	88	225.6	17.2	0	33.7	1222	8
Innotech	IC3983-3220 ↗	3220	89	224.5	16.1	0	32.9	1222	9
Dyna-Gro	D27VC87 ↗	VT2P	87	222.7	16.0	1	34.0	1213	10
AgriGold	A615-64VT2RIB GC ↗	VT2P	85	221.2	15.8	1	34.0	1206	12
Channel	189-64STXRIB GC ↗	STX	89	220.8	17.0	0	33.9	1197	14
Hefty	H3712 RIB ↗	VT2P	87	220.0	15.3	1	32.9	1202	13
Hefty	H4052 ↗	VT2P	90	219.9	16.7	0	33.7	1194	15
Renk	RK315VT2P ↗	VT2P	90	219.7	16.7	0	33.7	1192	16
Proseed	1790 VT2PRIB ↗	VT2P	90	219.5	16.9	0	32.2	1190	17
Enestvedt	E878DP RIB ↗	VT2P	87	216.9	15.9	1	32.2	1181	18
Dahlman	R45-25VT2PRIB ↗	VT2P	90	216.3	16.8	0	31.8	1174	20
Integra	3629 VT2PRIB ↗	VT2P	86	216.1	15.8	2	33.3	1178	19
Hefty	H3922 RIB ↗	VT2P	89	216.0	16.6	0	32.5	1173	22
Channel	187-20VT2PRIB GC ↗	VT2P	87	215.5	15.9	0	32.9	1174	21
Dairyland	DS-3022AM ↗	AM	90	214.7	17.2	0	32.9	1163	23
Latham	LH 3695 VT2P RIB ↗	VT2P	86	212.3	16.0	1	32.9	1156	24
Thunder	T6888 VT2P ↗	VT2P	88	212.0	15.9	1	33.7	1154	27
Renk	RK297VT2P ↗	VT2P	89	211.9	15.9	0	34.0	1155	25
Golden Harvest	G90S99-5222 EZR ↗	5222	90	211.9	16.2	0	33.3	1153	28
REA	2B862 ↗	VT2P	86	211.8	15.8	0	33.7	1155	26
Thunder	T6190 VT2P ↗	VT2P	90	209.2	16.4	0	34.4	1137	29
Hefty	H3542 RIB ↗	VT2P	85	206.7	16.0	0	33.7	1125	30
Golden Harvest	G85Z56-3220 EZR ↗	3220	85	205.6	16.4	0	33.3	1118	31
DeKalb	DKC41-99RIB CK	VT2P	91	221.7	16.1	0	33.7	1207	11

Averages = **214.5** **16.3** **0** **33.2** **1167**

LSD (0.10) = 13.3 0.4 ns

LSD (0.25) = 7.0 0.2 ns

C.V. = 6.8

Luke Brendemuhl

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Historic yield: new site

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$5.47

Report Date: 11/04/2021

† 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] DORAN, MN

Bruce Yaggie, Wilkin County, MN 56520

Full-Season Test 91 - 95 Day CRM
B2021RRSO05b

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

PREV. CROP/HERB: Soybeans / Liberty

SOIL DESCRIPTION: Hamerly clay loam, moderately drained, non-irrigated

SOIL CONDITION: Conventional W/ Fall Till, low P, medium K, 7.7 pH, 3.3% OM, 26.4 CEC

PEST MANAGEMENT: Roundup, Atrazine

FERTILITY - Applied N: 120 Spring, 60 Sidedress

Applied N-P-K (units): 180-65-70

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

HARVESTED - STAND: Nov 4 33.3 /A

TEST COMMENTS:

This location had more timely rains than most of our other plots. A few good rains around and after pollination helped this plot perform very well. Many hybrids had cobs that were 18-20 kernels around, with high test weight. There was very minimal lodging due to high winds a week before harvest, but overall, stalks were very strong.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Renk	RK429-3220A ↗	3220A	93	254.1	17.7	0	32.9	1373	1
Latham	LH 4375 VT2P RIB ↗	VT2P	93	248.9	16.7	0	33.7	1351	2
Dairyland	DS-3366AM ↗	AM	93	248.0	17.5	0	33.7	1341	3
Enestvedt	E612RR ↗	RR2	92	246.4	17.6	0	32.9	1332	4
AgriGold	A621-77VT2RIB GC ↗	VT2P	91	240.7	17.4	0	33.3	1302	6
Rob-See-Co	RC4166-3110A ↗	3110A	91	238.0	18.1	0	33.7	1284	8
REA	3B912 ↗	VT2P	91	236.9	16.6	0	33.7	1286	7
Dahlman	R47-24VT2PRIB ↗	VT2P	94	236.5	17.9	0	32.9	1277	9
Integra	4509 VT2PRIB ↗	VT2P	95	236.0	18.6	0	33.9	1270	11
Golden Harvest	G91V51-5222A EZR ↗	5222A	91	235.4	18.0	0	32.9	1270	12
Thunder	T6294 VT2P ↗	VT2P	94	235.1	17.8	0	33.3	1270	13
Hefty	H4332 RIB ↗	VT2P	93	234.8	17.1	0	33.3	1272	10
Integra	4311 VT2PRIB ↗	VT2P	93	234.7	17.6	0	32.9	1268	14
AgriGold	A625-78VT2RIB GC ↗	VT2P	95	232.8	17.7	0	33.3	1258	16
Dyna-Gro	D35VC35 ↗	VT2P	95	232.6	17.2	0	33.7	1259	15
Rob-See-Co	RC4535-3110 ↗	3110	95	231.0	18.0	0	34.0	1246	17
Channel	195-85DGV2PRIB GC ↗	VT2P	95	229.8	17.2	0	32.9	1244	18
Thunder	T6993 VT2P ↗	VT2P	93	229.1	17.7	0	33.3	1238	19
REA	4B933 ↗	VT2P	93	228.6	17.1	0	33.3	1238	20
Proseed	1794 VT2PRIB ↗	VT2P	94	228.2	17.7	0	33.7	1233	21
Hefty	H4222 RIB ↗	VT2P	92	226.9	17.5	0	30.7	1227	22
Latham	LH 4517 VT2P RIB ↗	VT2P	95	226.6	17.9	0	33.3	1223	23
Latham	LH 4454 VT2P RIB ↗	VT2P	94	226.1	18.0	0	32.9	1220	24
Dahlman	R48-28VT2PRIB ↗	VT2P	95	225.8	17.8	0	32.5	1219	25
Dairyland	DS-3550AM ↗	AM	95	224.6	17.9	0	33.3	1212	27
Thunder	T6992 VT2P ↗	VT2P	92	224.3	17.9	0	33.3	1211	28
Dairyland	DS-3162Q ↗	QR	91	224.1	16.9	0	33.3	1215	26
REA	4B958 ↗	VT2P	95	223.0	19.1	0	34.0	1197	29
Thunder	T6595 VT2P ↗	VT2P	95	221.4	17.7	0	34.0	1196	30
REA	4B944 ↗	VT2P	94	220.6	17.5	0	33.3	1193	31
DeKalb	DKC41-99RIB CK	VT2P	91	240.5	16.8	0	33.3	1304	5

Averages = **229.2** **17.7** **0** **33.3** **1237**

LSD (0.10) = 12.4 0.6 0

LSD (0.25) = 6.5 0.3 0

C.V. = 5.9

Historic yield: new site

Luke Brendemuhl

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Yield & Income Factors:

Base Moisture = 15.0%

Shrink = 1.3

Drying = \$0.025

Prices: GMO = \$5.47

Report Date: 11/04/2021

† 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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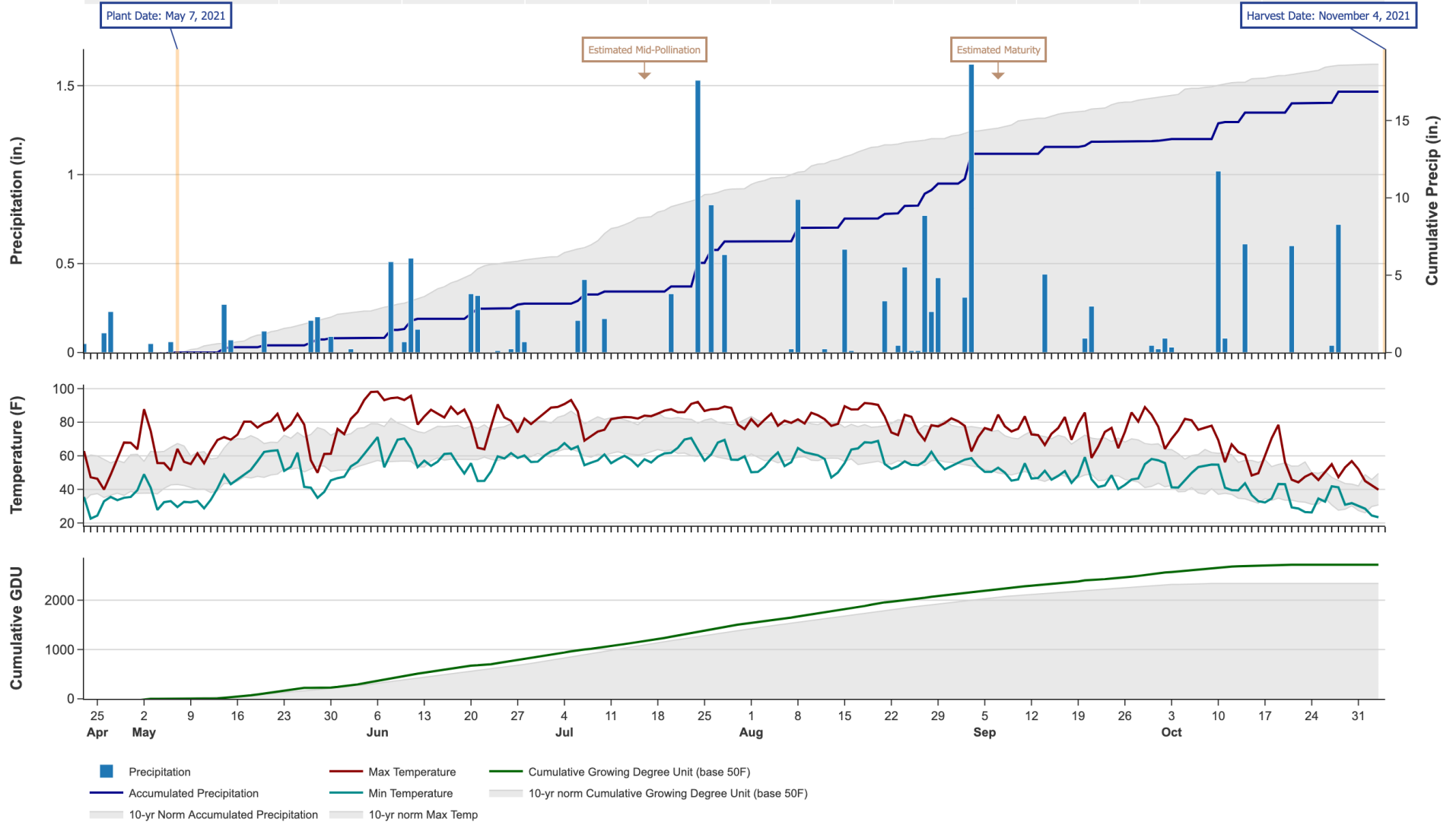
Additional reports available at www.firstseedtests.com

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

Weather Conditions Summary at DORAN, MN

Weather Data Retrieved: 11/04/2021

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct	Nov*	Total
Precip (in) Normal (Diff)	0.4 0.8 (-0.4)	1.0 2.8 (-1.8)	2.2 3.6 (-1.4)	4.0 4.5 (-0.5)	3.7 3.4 (+0.3)	2.8 2.4 (+0.3)	3.2 2.2 (+1.0)	0.0 0.0 (-0.0)	17.4 19.8 (-2.4)
GDU Normal (Diff)	18 0 (+18)	279 252 (+26)	599 516 (+82)	682 660 (+21)	597 560 (+36)	414 336 (+77)	184 40 (+143)	0 0 (0)	2773 2367 (+405)



* 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.