

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

2022 Corn Grain Top 30 Harvest Report

Red River South North Dakota & Minnesota [RRSO]
WENDELL, MN
Chad Biss, Grant County, MN 56531

Early-Season Test 85 - 90 Day CRM
B2022RRSO03a

Top 30 of 36 For Gross Income
(Sorted by Yield)
Average of (4) Replications

PREV. CROP/HERB: Soybeans / Roundup
Weathermax, Extendimax

SOIL DESCRIPTION: Aazdahl-Formdale clay loam,
mod. well drained, non-irrigated

SOIL CONDITION: Conventional W/ Fall Till, high P,
medium K, 5.3 pH, 4.9% OM,
33.1 CEC

PEST MANAGEMENT: Roundup Weathermax, Status

FERTILITY - Applied N: 160 Spring

Applied N-P-K (units): 160-60-40

SEEDED - RATE - ROW: May 24 34.5 /A 30" spacing

HARVESTED - STAND: Oct 21 33.2 /A

TEST COMMENTS:

The growing season at this location was drier than average but had adequate rains shortly after planting to help with even emergence, and quarter-inch showers kept the plot going from June through August. This location did not show any signs of drought among hybrid ears like a few of our other southern valley locations, most likely aided by a heavier soil structure retaining moisture and more timely rains. At harvest, there were a few full-season products with some green left in the leaves, and ears throughout the plot were more prominent and full to the tip. Smut was noticed sporadically in the plot, with a few hybrids affected more than others. Chad's dad stopped out during harvest and said they saw some great yields so far, with one location having yields in the 190s for BPA.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank	
Legacy	LC403-22 ↗	AA	90	215.3	17.6	0	33.7	1373	1	
Innotech	IC3983-3220 ↗	V	89	213.7	17.2	0	32.2	1364	2	
Integra	4023-3220A ↗	V	90	212.0	18.5	0	33.3	1346	3	
Renk	RK297VT2P ↗	VT2P	89	204.9	16.7	0	33.3	1311	4	
REA	3B903 ↗	VT2P	90	202.7	15.0	0	33.3	1305	5	
Golden Harvest	G90S99-DV ↗	DV	90	202.3	18.8	0	33.3	1283	7	
Hefty	H3712 RIB ↗	VT2P	87	200.2	15.3	0	32.9	1288	6	
Dairyland	DS-3022AM ↗	AM	90	199.7	16.8	0	33.7	1277	9	
Latham	LH 3937 VT2P RIB ↗	VT2P	89	199.6	15.8	0	34.0	1282	8	
Renk	RK400VT2P ↗	VT2P	90	198.5	16.6	0	33.3	1270	10	
Thunder	T6389 VT2P ↗	VT2P	89	194.1	15.8	0	33.7	1246	11	
NK Brand	NK8760-V ↗	V	87	192.6	17.1	0	34.0	1230	12	
Latham	LH 3827 VT2P RIB ↗	VT2P	88	190.7	16.2	0	32.9	1222	13	
Dairyland	DS-2919AM ↗	AM	89	188.4	17.2	0	32.9	1202	14	
Thunder	T6185 VT2P ↗	VT2P	85	186.6	15.5	0	31.8	1200	15	
Hefty	H4052 ↗	VT2P	90	184.9	16.7	0	32.9	1183	16	
Dairyland	DS-2531AM ↗	AM	85	184.0	15.5	0	32.5	1183	17	
Thunder	T6888 VT2P ↗	VT2P	88	182.3	16.0	0	34.0	1170	18	
Dyna-Gro	D28VC33 ↗	VT2P	88	181.8	15.2	0	32.5	1170	19	
Golden Harvest	G87A53-V ↗	V	87	181.8	17.5	0	32.5	1159	21	
Dairyland	DS-2505Q ↗	QR	85	180.9	16.1	0	34.4	1160	20	
Thunder	T6987 VT2P ↗	VT2P	87	179.3	15.1	0	31.8	1154	22	
REA	EXP88B04 ↗	VT2P	88	178.7	15.1	0	32.2	1150	23	
Dyna-Gro	D27VC87RIB ↗	VT2P	87	177.3	15.4	0	33.3	1140	24	
Integra	3629 VT2PRIB ↗	VT2P	86	177.0	15.9	1	32.2	1135	25	
Rob-See-Co	RC3601-GTA ↗	GTA	86	176.6	16.8	0	34.4	1130	28	
Latham	LH 3695 VT2P RIB ↗	VT2P	86	176.5	15.7	0	33.3	1134	26	
Latham	LH 3867 VT2P RIB ↗	VT2P	88	176.2	15.4	0	33.7	1133	27	
Legacy	LC353-22 ↗	AA	85	172.8	16.5	0	34.0	1106	30	
REA	86A94 ↗	STX	86	170.6	15.0	0	33.7	1099	31	
DEKALB	DKC40-99RIB CK	TRE	90	175.6	15.9	0	32.9	1127	29	
				Averages =	185.1	16.2	0	33.2	1187	
				LSD (0.10) =	11.5	0.6	ns			
				LSD (0.25) =	6.0	0.3	ns			
				C.V. =	6.8					
Luke Brendemuhl				Historic yield: 186.45 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 = \$6.44

Report Date: 10/22/2022

† 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. ↗ Links to full product yield results at www.firstseedtests.com

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2022 Corn Grain Top 30 Harvest Report

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WENDELL, MN

Chad Biss, Grant County, MN 56531

Full-Season Test 91 - 95 Day CRM
B2022RRSO03b

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

PREV. CROP/HERB: Soybeans / Roundup
Weathermax, Extendimax

SOIL DESCRIPTION: Aazdahl-Formdale clay loam,
mod. well drained, non-irrigated

SOIL CONDITION: Conventional W/ Fall Till, high P,
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33.1 CEC

PEST MANAGEMENT: Roundup Weathermax, Status

FERTILITY - Applied N: 160 Spring

Applied N-P-K (units): 160-60-40

SEEDED - RATE - ROW: May 24 34.5 /A 30" spacing

HARVESTED - STAND: Oct 21 33.1 /A

TEST COMMENTS:

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Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank	
Rob-See-Co	RC4166-3110A ↗	3110A	91	213.4	18.9	0	34.0	1353	1	
NK Brand	NK9231-AA ↗	AA	92	207.7	23.1	0	34.0	1296	3	
Renk	RK502SSTX ↗	STX	95	206.8	19.0	0	34.0	1311	2	
Dairyland	DS-3550AM ↗	AM	95	202.3	19.3	0	33.3	1281	4	
Hefty	H4462 ↗	VT2P	94	200.9	19.4	0	32.9	1272	5	
Hefty	H4564 ↗	STX	95	200.0	21.9	0	32.2	1254	6	
Latham	LH 4527 VT2P RIB ↗	VT2P	95	196.7	19.7	0	32.5	1244	7	
Golden Harvest	G91V51-DV ↗	DV	91	194.3	20.5	0	32.9	1225	9	
Thunder	T6992 VT2P ↗	VT2P	92	193.0	16.8	0	32.9	1234	8	
Renk	RK444VT2P ↗	VT2P	93	192.7	18.7	0	31.8	1223	10	
REA	95A36 ↗	STX	95	192.6	20.1	0	33.7	1216	12	
Latham	LH 4517 VT2P RIB ↗	VT2P	95	191.6	17.8	0	31.0	1220	11	
Enestvedt	E612RR ↗	RR2	92	190.2	17.3	0	34.0	1214	13	
Hefty	H4262 RIB ↗	VT2P	92	190.1	17.1	0	32.9	1214	14	
Dyna-Gro	D33QZ83 ↗	V	93	190.1	18.8	0	32.9	1206	16	
REA	92B10 ↗	VT2P	92	190.0	17.1	0	32.9	1214	15	
NK Brand	NK9175-DV ↗	DV	91	189.1	19.9	0	33.3	1195	20	
Rob-See-Co	RC4213-3120 ↗	AA	92	188.8	18.0	0	32.5	1202	17	
REA	4B944 ↗	VT2P	94	188.7	18.2	0	33.4	1200	18	
Dairyland	DS-3477AM ↗	AM	94	188.5	17.9	0	32.5	1200	19	
Hefty	H4522 ↗	VT2P	95	188.2	21.8	0	33.4	1180	27	
Dyna-Gro	D34VC93 ↗	VT2P	94	187.9	18.3	0	32.2	1194	21	
Thunder	THX22-95 ↗	VT2P	95	187.4	17.8	0	32.2	1193	22	
DeKalb	DKC44-98RIB GC ↗	VT2P	94	187.0	17.5	0	34.0	1193	23	
Latham	LH 4242 VT2P RIB ↗	VT2P	92	186.8	18.8	0	33.7	1185	25	
Rob-See-Co	RC4535-3110 ↗	3110	95	186.5	19.3	0	32.5	1181	26	
Thunder	T6791 VT2P ↗	VT2P	91	185.5	16.7	0	33.3	1186	24	
Dairyland	DS-3203AM ↗	AM	92	185.4	18.8	0	32.9	1176	29	
Hefty	H4332 ↗	VT2P	93	184.9	17.9	0	32.2	1177	28	
Thunder	T6294 VT2P ↗	VT2P	94	184.9	18.8	0	34.0	1173	30	
DEKALB	DKC40-99RIB CK	TRE	90	171.5	16.2	0	33.3	1099	36	
				Averages =	188.4	18.7	0	33.1	1194	
				LSD (0.10) =	9.9	0.8	ns			
				LSD (0.25) =	5.2	0.4	ns			
				C.V. =	5.7					
Luke Brendemuhl				Historic yield: 186.45 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 = \$6.44

Report Date: 10/22/2022

† 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. ↗ Links to full product yield results at www.firstseedtests.com

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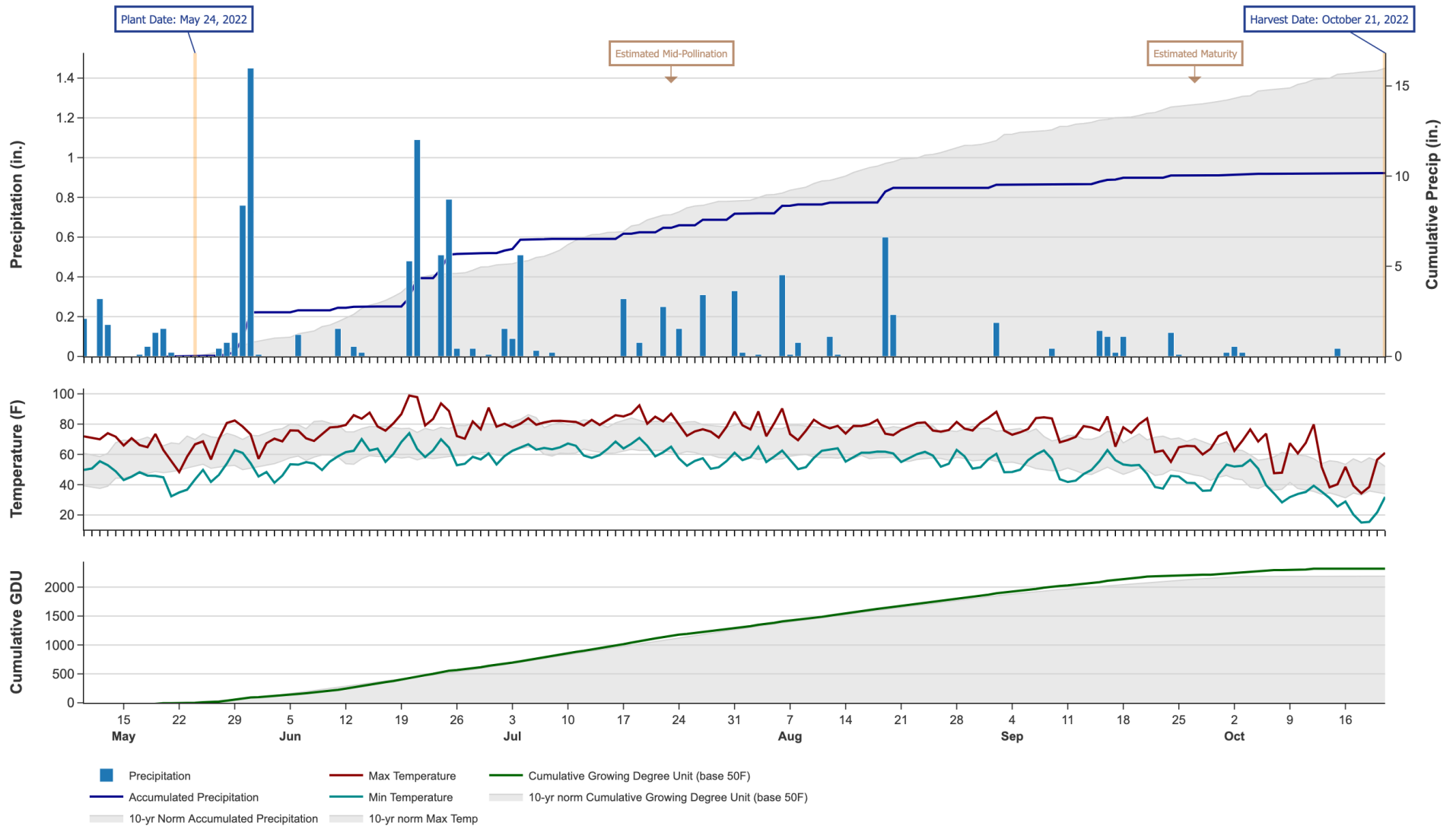
Additional reports available at www.firstseedtests.com

2022 Corn - Red River South North Dakota & Minnesota [RRSO]

Weather Conditions Summary at WENDELL, MN

Weather Data Retrieved: 10/22/2022

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	3.4 2.3 (+1.1)	3.3 4.2 (-0.9)	2.2 3.6 (-1.4)	1.4 3.1 (-1.7)	0.7 2.4 (-1.7)	0.1 1.9 (-1.7)	11.2 17.6 (-6.4)
GDU Normal (Diff)	212 189 (+22)	546 532 (+13)	650 653 (-3)	560 550 (+9)	376 345 (+30)	93 27 (+65)	2437 2296 (+140)



* 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.

2022 Corn - Red River South North Dakota & Minnesota [RRSO]

Early-Season Test Products (36 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Dairyland	DS-2505Q	QR	Y	85	Lum, L1
Dairyland	DS-2531AM	AM	Y	85	Lum, L1
Dairyland	DS-2919AM	AM	Y	89	Lum, L1
Dairyland	DS-3022AM	AM	Y	90	Lum, L1
DeKalb	DKC35-88RIB GC	VT2P	Y	85	AC,P5V,SU+Zn
DeKalb	DKC40-99RIB CK	TRE	Y	90	AC,P5V,EDC-EL
Dyna-Gro	D27VC87RIB	VT2P	N	87	AC,P5V
Dyna-Gro	D28VC33	VT2P	N	88	AC,P5V
Golden Harvest	G87A53-V	V	Y	87	AVC,C2,Vi,Va
Golden Harvest	G90S99-DV	DV	Y	90	AVC,C2,Vi,Va
Hefty	H3632	VT2P	N	86	HC
Hefty	H3712 RIB	VT2P	Y	87	HC
Hefty	H4052	VT2P	N	90	HC
Hefty	H4064	STX	N	90	HC
Innotech	IC3983-3220	V	Y	89	AVC,C2,Vi,Va
Integra	3629 VT2PRIB	VT2P	Y	86	AC,P5V,SU+Zn
Integra	4023-3220A	V	N	90	CM,C2,Vi
Latham	LH 3695 VT2P RIB	VT2P	Y	86	AC,P2
Latham	LH 3827 VT2P RIB	VT2P	Y	88	AC,P2
Latham	LH 3867 VT2P RIB	VT2P	Y	88	AC,P2
Latham	LH 3937 VT2P RIB	VT2P	Y	89	AC,P2
Legacy	LC353-22	AA	Y	85	AC,P2
Legacy	LC403-22	AA	Y	90	AC,P2
NK Brand	NK8760-V	V	Y	87	AVC,C2,Vi,Va
REA	2B863	VT2P	Y	86	AC,P5V,EDC-B
REA	3B903	VT2P	Y	90	AC,P5V,EDC-B
REA	86A94	STX	Y	86	AC,P5V,EDC-B
REA	EXP88B04	VT2P	Y	88	AC,P5V,EDC-B
Renk	RK297VT2P	VT2P	N	89	AC,P2
Renk	RK400VT2P	VT2P	N	90	AC,P2
Rob-See-Co	RC3601-GTA	GTA	N	86	CM,C2,Vi
Thunder	T6085 VT2P	VT2P	Y	85	AC,P2
Thunder	T6185 VT2P	VT2P	Y	85	AC,P2
Thunder	T6389 VT2P	VT2P	Y	89	AC,P2
Thunder	T6888 VT2P	VT2P	Y	88	AC,P2
Thunder	T6987 VT2P	VT2P	Y	87	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.

2022 Corn - Red River South North Dakota & Minnesota [RRSO]

Full-Season Test Products (40 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Dairyland	DS-3203AM	AM	Y	92	Lum, L1
Dairyland	DS-3366AM	AM	Y	93	Lum, L1
Dairyland	DS-3477AM	AM	Y	94	Lum, L1
Dairyland	DS-3550AM	AM	Y	95	Lum, L1
DeKalb	DKC40-99RIB CK	TRE	Y	90	AC,P5V,EDC-EL
DeKalb	DKC44-98RIB GC	VT2P	Y	94	AC,P5V,EDC-EL
Dyna-Gro	D31VC23	VT2P	N	91	AC,P2
Dyna-Gro	D33QZ83	V	N	93	AC,P5V
Dyna-Gro	D34VC93	VT2P	N	94	AC,P5V,EDC-B
Enestvedt	E612RR	RR2	N	92	AC,P2
Golden Harvest	G91V51-DV	DV	Y	91	AVC,C2,Vi,Va
Golden Harvest	G93A49-D	D	Y	93	AVC,C2,Vi,Va
Hefty	H4262 RIB	VT2P	Y	92	HC
Hefty	H4332	VT2P	N	93	HC
Hefty	H4462	VT2P	N	94	HC
Hefty	H4522	VT2P	N	95	HC
Hefty	H4564	STX	N	95	HC
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
Latham	LH 4527 VT2P RIB	VT2P	Y	95	AC,P5V,EDC-B
NK Brand	NK9175-DV	DV	Y	91	AVC,C2,Vi,Va
NK Brand	NK9231-AA	AA	Y	92	AVC,C2,Vi,Va
NK Brand	NK9347-D	D	Y	93	AVC,C2,Vi,Va
REA	4B944	VT2P	Y	94	AC,P5V,EDC-B
REA	4B958	VT2P	Y	95	AC,P5V,EDC-B
REA	92B10	VT2P	Y	92	AC,P5V,EDC-B
REA	95A36	STX	Y	95	AC,P5V,EDC-B
Renk	RK444VT2P	VT2P	N	93	AC,P5V
Renk	RK502SSTX	STX	N	95	AC,P5V
Rob-See-Co	RC4166-3110A	3110A	N	91	CM,C2,Vi
Rob-See-Co	RC4213-3120	AA	Y	92	AVC,C2,Vi,Va
Rob-See-Co	RC4535-3110	3110	N	95	CM,C2,Vi
Stine	9319-10	3010	N	93	Se,Sa,Sn,Sp
Thunder	T6294 VT2P	VT2P	Y	94	AC,P2
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	THX22-95	VT2P	Y	95	AC,P5V,EDC-B

* 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 (GT,CB,LL), formerly GT/CB/LL
3110	Agrisure® Viptera® 3110 (Vip, CB,LL,GT)
3110A	Agrisure® Artesian® Viptera® 3110 (Vip, CB,LL,GT)
AA	Agrisure® Above (CB,HX,LL,GT), formerly Agrisure® 3120
AM	Optimum® AcreMax®
D	Duracade™ (CB,HX,RW,RW2,LL,GT), formerly Agrisure Duracade® 5122
DV	DuracadeViptera™ (Vip,CB,HX,RW,RW2,LL,GT), formerly Agrisure Duracade® 5222
GTA	Agrisure® Artesian® GTA
QR	Qrome™
RR2	Roundup Ready® 2 Corn
STX	SmartStax®
TRE	Trecepta®
V	Viptera™ (Vip,CB,HX,LL,GT), formerly Agrisure Viptera® 3220
VT2P	VT Double PRO®

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

Corn Seed Treatments*

NA	Not Available
AC,P2	Acceleron® 250
AC,P5V	Acceleron® Poncho 500/Votivo
AC,P5V,EDC-B	Acceleron® BASIC Poncho 500/Votivo with Enhanced Disease Control
AC,P5V,EDC-EL	Acceleron® ELITE Poncho 500/Votivo with Enhanced Disease Control
AC,P5V,SU+Zn	Acceleron® Poncho 500/Votivo, StepUp SP, StepUp Zn
AVC,C2,Vi,Va	Avicta® Complete 250, Vibrance®, Vayantis®
CM,C2,Vi	CruiserMaxx® 250 with Vibrance
HC	Hefty Complete
Lum, L1	(2022) LumiGEN, Lumisure 1250
Se,Sa,Sn,Sp	Senator 250, Sativa, Spirato, Sebring

* Seed treatments may include unspecified plant health promoting components.