

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]
KINDRED, ND
Todd Toppen, Cass County, ND

Early-Season Test 85 - 90 Day CRM
B2022RRSO01a

Top 30 of 36 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, medium P, very high K, 7.6 pH, 4.6% OM, 35.3 CEC
PEST MANAGEMENT: Capreno, Atrazine
FERTILITY - Applied N: 130 Fall
Applied N-P-K (units): 130-60-51
SEEDED - RATE - ROW: May 26 34.5 /A 30" spacing
HARVESTED - STAND: Oct 20 33.3 /A

TEST COMMENTS:

The plot was planted the last week of May into freshly worked soil conditions and planted very well. The stands were excellent at this location. The growing season was drier than average, and some products displayed drought symptoms at harvest, such as zippering of the ears. Dry conditions and multiple frost events before harvest contributed to dry grain moisture. There was some minimal root lodging noticed among some hybrids, resulting in plant goose-necking.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Legacy	LC403-22 ↗	AA	90	150.5	17.9	0	33.3	958	2
Integra	4023-3220A ↗	V	90	150.1	19.0	3	33.9	952	3
REA	EXP88B04 ↗	VT2P	88	149.7	15.3	0	33.7	963	1
Golden Harvest	G87A53-V ↗	V	87	147.1	17.9	0	32.9	937	4
REA	3B903 ↗	VT2P	90	143.9	14.8	1	32.9	927	5
Renk	RK400VT2P ↗	VT2P	90	143.6	15.8	0	33.3	922	6
Hefty	H3712 RIB ↗	VT2P	87	142.8	14.0	5	33.7	920	7
Legacy	LC353-22 ↗	AA	85	141.0	15.8	0	32.9	905	8
Latham	LH 3827 VT2P RIB ↗	VT2P	88	139.7	16.3	0	32.9	895	10
Innotech	IC3983-3220 ↗	V	89	139.7	17.6	1	34.4	891	12
Hefty	H4052 ↗	VT2P	90	139.4	15.5	0	33.7	896	9
Thunder	T6987 VT2P ↗	VT2P	87	139.0	14.2	8	33.7	895	11
Golden Harvest	G90S99-DV ↗	DV	90	138.6	17.7	1	33.7	883	14
Thunder	T6389 VT2P ↗	VT2P	89	138.2	15.3	0	34.4	889	13
Dairyland	DS-2505Q ↗	QR	85	135.7	14.4	0	32.9	874	15
Rob-See-Co	RC3601-GTA ↗	GTA	86	135.7	16.1	0	32.9	870	16
Thunder	T6888 VT2P ↗	VT2P	88	134.1	15.3	0	32.5	863	17
Latham	LH 3695 VT2P RIB ↗	VT2P	86	133.8	14.0	3	33.7	862	18
Dyna-Gro	D27VC87RIB ↗	VT2P	87	133.6	14.3	1	32.9	860	19
Latham	LH 3867 VT2P RIB ↗	VT2P	88	131.8	15.6	0	33.7	847	21
Dairyland	DS-3022AM ↗	AM	90	131.8	15.4	0	33.7	847	22
DeKalb	DKC35-88RIB GC ↗	VT2P	85	130.5	14.6	0	33.7	840	23
Dairyland	DS-2531AM ↗	AM	85	130.4	14.1	0	32.9	840	24
Dyna-Gro	D28VC33 ↗	VT2P	88	129.2	15.5	0	33.7	831	25
NK Brand	NK8760-V ↗	V	87	128.7	18.2	0	33.3	819	27
Dairyland	DS-2919AM ↗	AM	89	127.8	15.0	0	33.7	823	26
Integra	3629 VT2PRIB ↗	VT2P	86	125.7	14.5	3	33.3	810	28
Hefty	H4064 ↗	STX	90	125.4	15.0	0	32.9	808	29
REA	86A94 ↗	STX	86	125.3	14.4	0	32.9	807	30
Renk	RK297VT2P ↗	VT2P	89	124.9	15.0	0	32.9	804	31
DEKALB	DKC40-99RIB CK	TRE	90	133.1	15.9	0	33.3	854	20

Averages = **132.9** **15.5** **1** **33.3** **854**

LSD (0.10) = 12.5 0.7 2

LSD (0.25) = 6.6 0.4 1

C.V. = 10.3

Historic yield: 146.48 bu/a, 3 yr(s)

Luke Brendemuhl

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: 10/21/2022

† 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

Red River South North Dakota & Minnesota [RRSO]
KINDRED, ND
Todd Toppen, Cass County, ND

Full-Season Test 91 - 95 Day CRM
B2022RRSO01b

Top 30 of 40 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,
medium P, very high K, 7.6 pH,
4.6% OM, 35.3 CEC

PEST MANAGEMENT: Capreno, Atrazine

FERTILITY - Applied N: 130 Fall

Applied N-P-K (units): 130-60-51

SEEDED - RATE - ROW: May 26 34.5 /A 30" spacing

HARVESTED - STAND: Oct 20 33.4 /A

TEST COMMENTS:

The plot was planted the last week of May into freshly worked soil conditions and planted very well. The stands were excellent at this location. The growing season was drier than average, and some products displayed drought symptoms at harvest, such as zippering of the ears. Dry conditions and multiple frost events before harvest contributed to dry grain moisture. There was some minimal root lodging noticed among some hybrids, resulting in plant goose-necking.

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	160.7	19.7	0	32.5	1016	1	
Hefty	H4564 ↗	STX	95	160.2	21.0	0	34.4	1008	3	
Enestvedt	E612RR ↗	RR2	92	160.1	18.7	1	32.9	1016	2	
NK Brand	NK9231-AA ↗	AA	92	156.5	20.9	0	33.7	985	4	
Latham	LH 4242 VT2P RIB ↗	VT2P	92	153.6	18.1	0	32.9	977	5	
Dyna-Gro	D33QZ83 ↗	V	93	152.6	19.6	0	33.3	965	6	
Rob-See-Co	RC4535-3110 ↗	3110	95	150.4	18.5	0	33.3	955	7	
NK Brand	NK9175-DV ↗	DV	91	150.0	21.8	2	33.7	940	10	
Thunder	T6294 VT2P ↗	VT2P	94	149.0	18.4	0	34.0	947	8	
Latham	LH 4517 VT2P RIB ↗	VT2P	95	147.5	17.1	0	34.0	942	9	
Dairyland	DS-3550AM ↗	AM	95	146.3	21.1	0	34.0	920	12	
Dyna-Gro	D31VC23 ↗	VT2P	91	146.1	16.3	0	32.9	936	11	
Thunder	THX22-95 ↗	VT2P	95	144.5	18.5	0	33.3	918	13	
Rob-See-Co	RC4213-3120 ↗	AA	92	144.4	19.0	0	32.9	916	16	
Hefty	H4462 ↗	VT2P	94	144.4	18.3	0	33.7	918	14	
Latham	LH 4527 VT2P RIB ↗	VT2P	95	143.9	17.7	0	33.7	917	15	
Hefty	H4332 ↗	VT2P	93	143.5	18.3	0	33.3	912	17	
Renk	RK502SSTX ↗	STX	95	141.9	19.5	0	33.3	898	20	
Golden Harvest	G91V51-DV ↗	DV	91	141.9	22.1	0	32.9	889	22	
Hefty	H4262 RIB ↗	VT2P	92	141.3	16.5	0	33.9	905	18	
REA	4B944 ↗	VT2P	94	140.4	17.6	0	33.4	895	21	
REA	92B10 ↗	VT2P	92	140.3	15.5	0	33.3	902	19	
REA	95A36 ↗	STX	95	139.9	18.5	0	32.9	889	23	
Hefty	H4522 ↗	VT2P	95	139.0	18.8	0	33.7	882	26	
DeKalb	DKC44-98RIB GC ↗	VT2P	94	138.9	17.4	0	33.9	886	24	
Thunder	T6791 VT2P ↗	VT2P	91	138.5	17.0	0	34.0	885	25	
REA	4B958 ↗	VT2P	95	138.1	18.9	0	32.9	876	28	
Renk	RK444VT2P ↗	VT2P	93	137.9	17.8	0	32.9	879	27	
Dyna-Gro	D34VC93 ↗	VT2P	94	136.4	18.3	0	34.0	867	30	
Latham	LH 4375 VT2P RIB ↗	VT2P	93	135.7	16.5	0	33.3	869	29	
DEKALB	DKC40-99RIB CK	TRE	90	135.4	16.7	0	33.4	866	31	
				Averages =	141.9	18.5	0	33.4	899	
				LSD (0.10) =	9.6	0.7	ns			
				LSD (0.25) =	5.0	0.4	ns			
				C.V. =	7.4					
Luke Brendemuhl				Historic yield: 146.48 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 = \$6.44

Report Date: 10/21/2022

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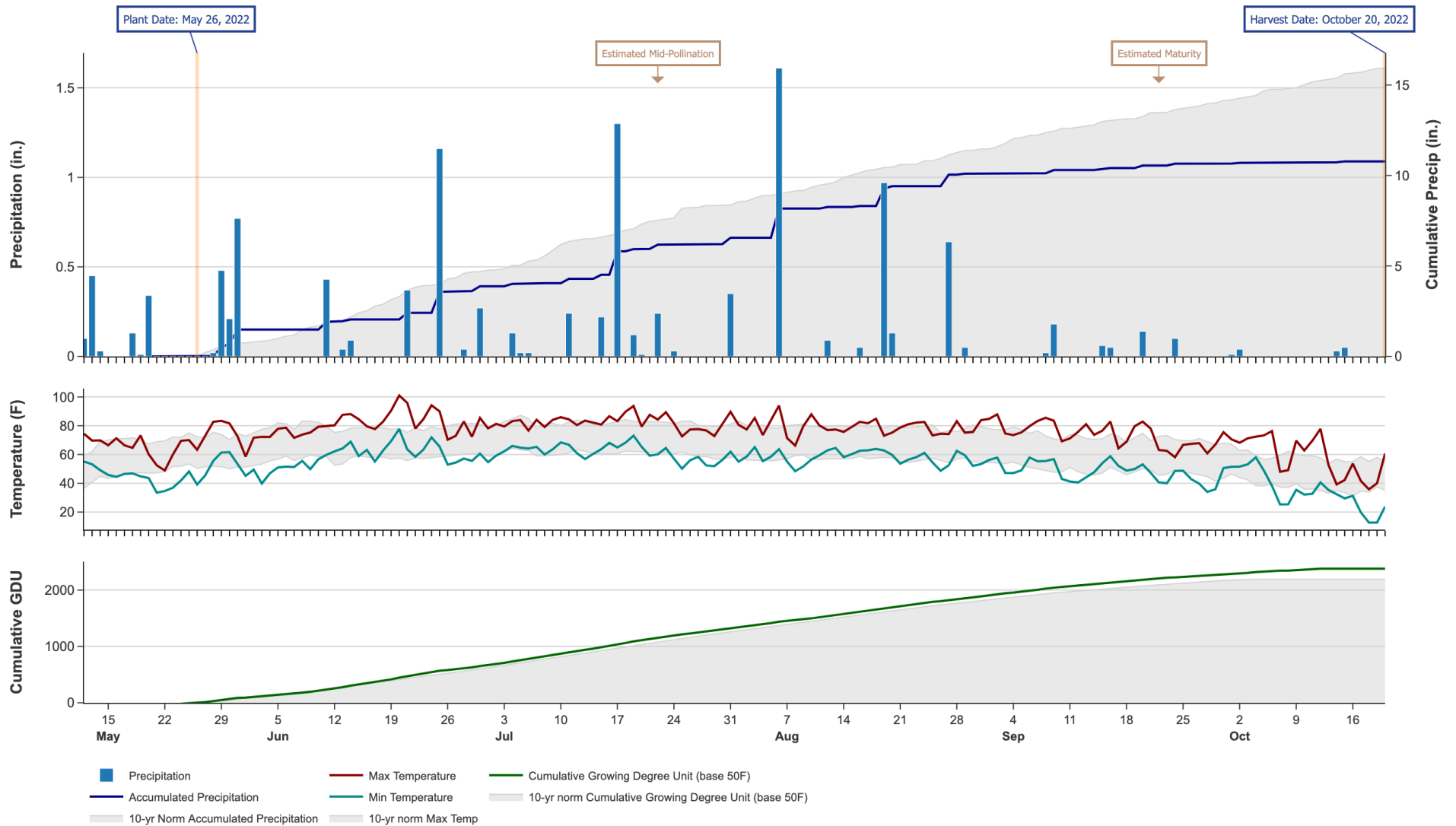
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2022 Corn - Red River South North Dakota & Minnesota [RRSO]

Weather Conditions Summary at KINDRED, ND

Weather Data Retrieved: 10/21/2022

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	2.5 2.1 (+0.5)	2.4 4.0 (-1.6)	2.7 3.7 (-1.0)	3.5 3.1 (+0.4)	0.6 2.7 (-2.1)	0.1 1.8 (-1.7)	11.8 17.3 (-5.4)
GDU Normal (Diff)	201 205 (-4)	563 541 (+21)	667 658 (+8)	571 560 (+10)	383 349 (+33)	107 21 (+85)	2492 2338 (+153)



* 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.