

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

2022 Corn Grain Top 30 Harvest Report

Red River Central North Dakota & Minnesota [RRCE]

FELTON, MN

WCD Brendemuhl Farms, Curtis Brendemuhl, Clay County, MN 56560

Early-Season Test	80 - 85 Day CRM B2022RRCE01a
Top 30 of 40	For Gross Income (Sorted by Yield) Average of (4) Replications
PREV. CROP/HERB:	Soybeans / Enlist Duo, Liberty
SOIL DESCRIPTION:	Glyndon loam, mod. poorly drained, non-irrigated
SOIL CONDITION:	Conventional W/ Fall Till, very low P, low K, 8.2 pH, 3.1% OM, 19.4 CEC
PEST MANAGEMENT:	Resicore, Atrazine
FERTILITY - Applied N:	22 Fall, 81 Spring, 2 Planter, 60 Sidedress
Applied N-P-K (units):	165-115-11
SEEDED - RATE - ROW:	May 18 34.5 /A 30" spacing
HARVESTED - STAND:	Oct 13 32.9 /A

TEST COMMENTS:

Although this location was planted later than usual, timely rains with excellent subsoil paired with plenty of heat units, allowed for excellent corn yields in this area. Ears at harvest had many hybrids with 18-20 kernels around and filled to the tip. Curt stated they are finding excellent yields, 20% higher corn yields than average for their farm.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
NK Brand	NK8519-V ↗	V	85	218.9	17.2	0	32.2	1440	1
Golden Harvest	G85Z56-V ↗	V	85	214.1	17.4	0	32.9	1407	2
Hefty	H3442 RIB ↗	VT2P	84	207.2	16.7	0	32.5	1365	3
NK Brand	NK8005-V ↗	V	80	206.3	18.2	0	32.2	1351	4
Latham	LH 3325 VT2P RIB ↗	VT2P	83	204.9	16.6	0	32.2	1350	5
Integra	3431 VT2PRIB ↗	VT2P	84	204.8	16.9	0	31.8	1348	6
Rob-See-Co	RC3041-3110A ↗	3110A	80	202.8	17.1	0	32.9	1334	7
Thunder	T6983 VT2P ↗	VT2P	83	200.9	16.2	0	33.3	1326	8
Legacy	LC354-20 ↗	3110	85	200.4	17.6	0	32.9	1316	10
Renk	RK223RR ↗	RR2	82	199.6	16.0	0	32.9	1318	9
Golden Harvest	G80Q01-V ↗	V	80	198.0	18.0	0	34.0	1298	12
Dairyland	DS-2505Q ↗	QR	85	197.8	16.5	0	33.3	1304	11
Renk	RK256-3120-EZ ↗	AA	84	195.5	18.5	0	33.7	1279	15
REA	2B851 ↗	VT2P	85	193.5	15.0	0	33.7	1282	13
REA	83B33 ↗	VT2P	83	193.4	14.6	0	33.7	1282	14
Dairyland	DS-2531AM ↗	AM	85	193.4	16.3	0	32.2	1276	16
Proseed	1882 VT2PRIB ↗	VT2P	82	192.5	14.9	0	32.9	1276	17
Thunder	THX22-85 ↗	VT2P	85	192.2	16.3	0	32.2	1268	19
Stine	9141-30 ↗	V	81	191.6	18.4	0	34.0	1254	21
Thunder	T6185 VT2P ↗	VT2P	85	191.3	16.8	0	33.7	1260	20
Pioneer	P8588AM GC ↗	AM	85	188.6	15.0	0	32.9	1250	22
Thunder	T6085 VT2P ↗	VT2P	85	188.6	15.3	0	33.7	1249	23
BioGene	BG510AT ↗	V	81	188.4	18.6	0	32.2	1232	29
Hefty	H3322 RIB ↗	VT2P	83	188.0	16.7	0	32.2	1238	25
Dyna-Gro	D23VC83RIB ↗	VT2P	83	187.5	15.2	0	33.3	1242	24
Proseed	2181 VT2PRIB ↗	VT2P	81	187.0	15.3	0	33.3	1238	26
Integra	3282 VT2PRIB ↗	VT2P	82	186.9	15.4	0	33.3	1237	28
Channel	180-33VT2PRIB ↗	VT2P	80	186.7	14.8	0	34.0	1238	27
Dyna-Gro	D21VC81RIB ↗	VT2P	81	185.8	15.6	0	32.9	1229	30
Rob-See-Co	RC2862-3220 ↗	V	78	184.6	16.9	0	32.5	1215	31
DEKALB	DKC35-88RIB CK	VT2P	85	192.6	15.7	0	32.2	1274	18

Averages = **190.8** **16.1** **32.9** **1259**

LSD (0.10) = 8.9 0.6 ns

LSD (0.25) = 4.7 0.3 ns

C.V. = 5.1

Historic yield: 158.57 bu/a, 1 yr(s)

Luke Brendemuhl

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Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$6.63

Report Date: 10/14/2022

† 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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FELTON, MN

WCD Brendemuhl Farms, Curtis Brendemuhl, Clay County,
MN 56560

Full-Season Test

86 - 90 Day CRM
B2022RRCE01b

Top 30 of 32

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

PREV. CROP/HERB:

Soybeans / Enlist Duo, Liberty

SOIL DESCRIPTION:

Glyndon loam, mod. poorly
drained, non-irrigated

SOIL CONDITION:

Conventional W/ Fall Till, very
low P, low K, 8.2 pH, 3.1% OM,
19.4 CEC

PEST MANAGEMENT:

Resicore, Atrazine

FERTILITY - Applied N:

22 Fall, 81 Spring, 2 Planter, 60
Sidedress

Applied N-P-K (units):

165-115-11

SEEDED - RATE - ROW:

May 18 34.5 /A 30" spacing

HARVESTED - STAND:

Oct 13 32.6 /A

TEST COMMENTS:

Although this location was planted later than usual, timely rains with excellent subsoil paired with plenty of heat units, allowed for excellent corn yields in this area. Ears at harvest had many hybrids with 18-20 kernels around and filled to the tip. Curt stated they are finding excellent yields, 20% higher corn yields than average for their farm.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Legacy	LC403-22 ↗	AA	90	233.7	21.6	0	34.4	1511	1
Dairyland	DS-2919AM ↗	AM	89	222.6	18.7	0	33.3	1455	2
Dairyland	DS-3022AM ↗	AM	90	220.1	18.4	0	32.5	1440	3
NK Brand	NK9023-DV ↗	DV	90	220.0	19.6	0	33.7	1433	5
NK Brand	NK8760-V ↗	V	87	219.8	19.3	0	32.5	1434	4
Proseed	1790 VT2PRIB ↗	VT2P	90	219.7	19.9	0	32.9	1430	6
Innotech	IC3983-3220 ↗	V	89	216.3	19.3	0	34.0	1411	7
Golden Harvest	G87A53-V ↗	V	87	212.3	18.9	0	32.5	1387	8
Latham	LH 3937 VT2P RIB ↗	VT2P	89	211.9	18.7	0	31.4	1385	10
REA	3B903 ↗	VT2P	90	211.2	17.6	0	32.5	1387	9
Renk	RK297VT2P ↗	VT2P	89	207.2	18.6	0	33.3	1355	11
Thunder	6090 AA ↗	AA	90	206.8	18.9	0	32.5	1351	12
REA	EXP88B04 ↗	VT2P	88	206.6	18.7	0	32.5	1351	13
Thunder	T6389 VT2P ↗	VT2P	89	204.8	17.2	0	32.2	1346	14
Latham	LH 3827 VT2P RIB ↗	VT2P	88	203.7	19.0	0	32.2	1330	15
Golden Harvest	G84J92-AA ↗	AA	84	202.7	19.7	0	31.4	1320	17
Hefty	H3712 RIB ↗	VT2P	87	202.3	17.4	0	32.5	1329	16
Rob-See-Co	RC3601-GTA ↗	GTA	86	201.2	18.6	0	32.9	1316	18
Hefty	H4052 ↗	VT2P	90	200.2	19.3	0	32.2	1306	19
REA	2B863 ↗	VT2P	86	199.0	18.0	0	31.8	1304	20
Latham	LH 3695 VT2P RIB ↗	VT2P	86	197.4	18.1	0	32.5	1294	21
Thunder	T6888 VT2P ↗	VT2P	88	197.0	18.4	0	31.4	1289	23
Dyna-Gro	D28VC33 ↗	VT2P	88	196.6	17.6	0	32.2	1291	22
Thunder	T6987 VT2P ↗	VT2P	87	195.5	17.2	0	32.5	1285	25
Renk	RK400VT2P ↗	VT2P	90	194.6	19.5	0	32.9	1269	27
Hefty	H4064 ↗	STX	90	194.1	18.0	0	32.5	1272	26
DeKalb	DKC40-99RIB ↗	TRE	90	192.7	18.8	0	32.5	1259	29
Latham	LH 3867 VT2P RIB ↗	VT2P	88	192.4	17.5	0	32.9	1263	28
REA	86A94 ↗	STX	86	191.3	16.9	0	33.3	1259	30
Dyna-Gro	D27VC87RIB ↗	VT2P	87	187.7	18.1	0	33.7	1230	31
DEKALB	DKC35-88RIB CK	VT2P	85	195.4	16.5	0	32.9	1288	24

Averages = **203.9** **18.4** **0** **32.6** **1338**

LSD (0.10) = 11.3 0.7 ns

LSD (0.25) = 5.9 0.4 ns

C.V. = 6.1

Historic yield: 158.57 bu/a, 1 yr(s)

Luke Brendemuhl

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Yield & Income Factors:

Base Moisture = 15.0%

Shrink = 1.3

Drying = \$0.025

Prices: GMO = \$6.63

Report Date: 10/14/2022

† 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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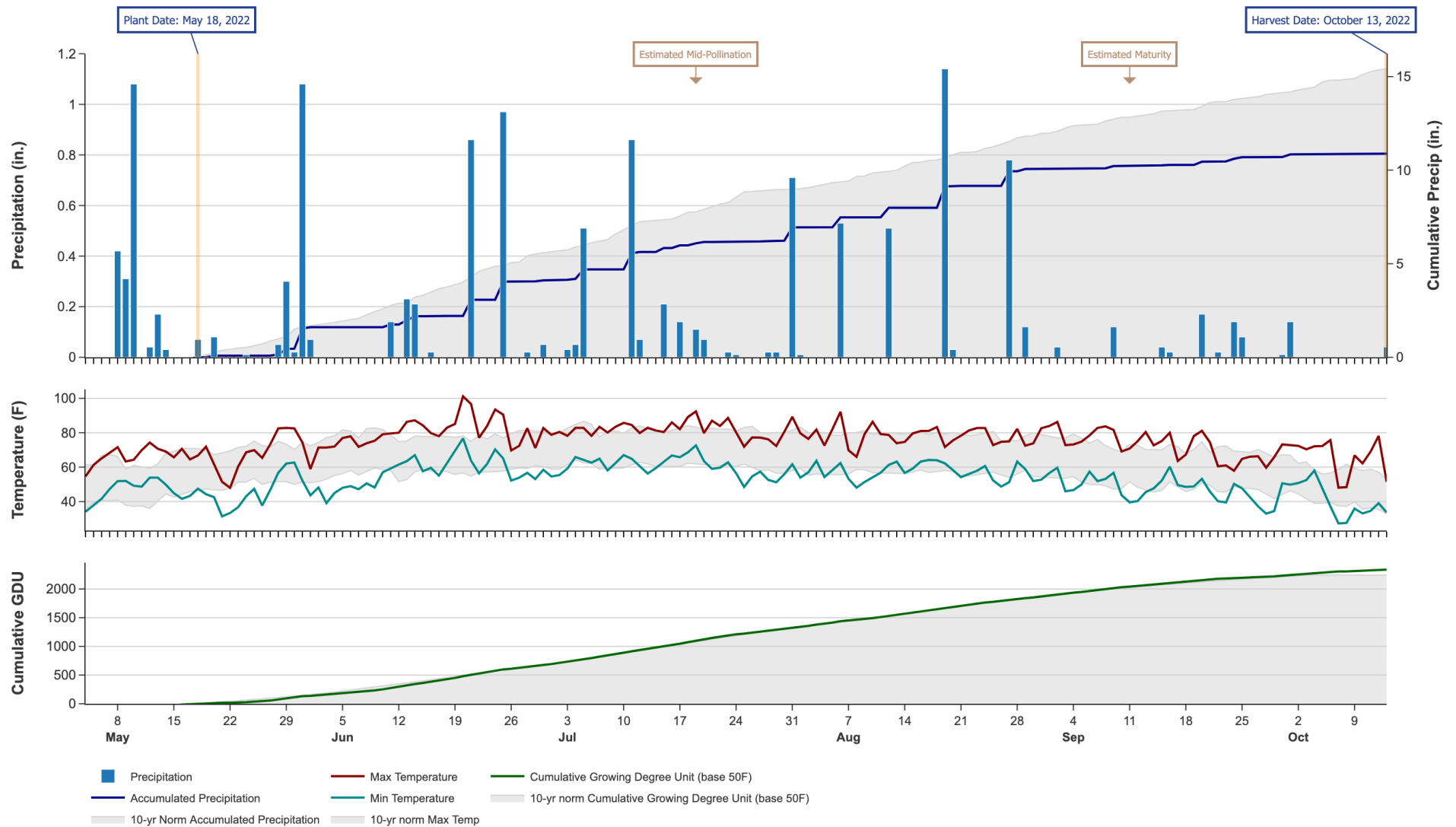
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2022 Corn - Red River Central North Dakota & Minnesota [RRCE]

Weather Conditions Summary at FELTON, MN

Weather Data Retrieved: 10/14/2022

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	3.7 2.9 (+0.8)	2.6 3.9 (-1.4)	2.8 3.4 (-0.5)	3.1 3.0 (+0.1)	0.6 2.2 (-1.6)	0.2 1.2 (-1.1)	13.0 16.6 (-3.6)
GDU Normal (Diff)	256 233 (+22)	542 528 (+13)	649 653 (-4)	547 554 (-7)	361 338 (+22)	105 21 (+83)	2460 2328 (+131)



* 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 Central North Dakota & Minnesota [RRCE]

Early-Season Test Products (40 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
BioGene	BG510AT	V	Y	81	CM,C2,Vi
BioGene	BG512V2 RIB	VT2P	Y	81	AC
Channel	180-33VT2PRIB	VT2P	Y	80	AC,P5V,EDC-B
Dairyland	DS-2505Q	QR	Y	85	Lum, L1
Dairyland	DS-2531AM	AM	Y	85	Lum, L1
DeKalb	DKC35-88RIB CK	VT2P	Y	85	AC,P5V,EDC-EL
Dyna-Gro	D21VC81RIB	VT2P	Y	81	AC,P5V
Dyna-Gro	D23VC83RIB	VT2P	N	83	AC,P5V
Golden Harvest	G80Q01-V	V	Y	80	AVC,C2,CM,C5,Vi,Va
Golden Harvest	G85Z56-V	V	Y	85	AVC,C2,Vi,Va
Hefty	H3122	VT2P	N	81	HC
Hefty	H3262	VT2P	N	84	HC
Hefty	H3322 RIB	VT2P	Y	83	HC
Hefty	H3432 RIB	VT2P	Y	84	HC
Hefty	H3442 RIB	VT2P	Y	84	HC
Integra	3009 VT2PRIB	VT2P	Y	80	AC,P5V,SU+Zn
Integra	3282 VT2PRIB	VT2P	Y	82	AC,P5V,SU+Zn
Integra	3431 VT2PRIB	VT2P	Y	84	AC,P5V,SU+Zn
Latham	LH 2977 VT2P RIB	VT2P	Y	79	AC,P2
Latham	LH 3325 VT2P RIB	VT2P	Y	83	AC,P2
Legacy	LC354-20	3110	N	85	CM,C2,Vi
NK Brand	NK8005-V	V	N	80	AVC,C2,Vi,Va
NK Brand	NK8519-V	V	Y	85	AVC,C2,Vi,Va
Pioneer	P8048AM GC	AM	Y	80	NA
Pioneer	P8588AM GC	AM	Y	85	NA
Proseed	1882 VT2PRIB	VT2P	Y	82	CM,C2,Vi
Proseed	2181 VT2PRIB	VT2P	Y	81	CM,C2,Vi,Va
REA	2B851	VT2P	Y	85	AC,P5V,EDC-B
REA	83B33	VT2P	Y	83	AC,P5V,EDC-B
Renk	RK223RR	RR2	N	82	AC,P2
Renk	RK227VT2P	VT2P	N	82	AC,P2
Renk	RK256-3120-EZ	AA	Y	84	CM,C2
Rob-See-Co	RC2862-3220	V	Y	78	CM,C2,Vi
Rob-See-Co	RC3041-3110A	3110A	N	80	CM,C2,Vi
Stine	9141-30	V	N	81	Se,Sa,Sn,Sp
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	T6983 VT2P	VT2P	Y	83	AC,P2
Thunder	THX22-85	VT2P	N	85	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.

2022 Corn - Red River Central North Dakota & Minnesota [RRCE]

Full-Season Test Products (32 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Dairyland	DS-2919AM	AM	Y	89	Lum, L1
Dairyland	DS-3022AM	AM	Y	90	Lum, L1
DeKalb	DKC35-88RIB CK	VT2P	Y	85	AC,P5V,EDC-EL
DeKalb	DKC40-99RIB	TRE	Y	90	Treated
Dyna-Gro	D27VC87RIB	VT2P	N	87	AC,P5V
Dyna-Gro	D28VC33	VT2P	N	88	AC,P5V
Golden Harvest	G84J92-AA	AA	Y	84	AVC,C2,CM,C5,Vi,Va
Golden Harvest	G87A53-V	V	Y	87	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
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	LC403-22	AA	Y	90	AC,P2
NK Brand	NK8760-V	V	Y	87	AVC,C2,Vi,Va
NK Brand	NK9023-DV	DV	Y	90	AVC,C2,Vi,Va
Proseed	1790 VT2PRIB	VT2P	Y	90	CM,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	6090 AA	AA	Y	90	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.

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

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®
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	Acceleron® unspecified
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,CM,C5,Vi,Va	Avicta® Complete 250, CruiserMaxx 500, Vibrance®, Vayantis®
AVC,C2,Vi,Va	Avicta® Complete 250, Vibrance®, Vayantis®
CM,C2	CruiserMaxx® 250
CM,C2,Vi	CruiserMaxx® 250 with Vibrance
CM,C2,Vi,Va	CruiserMaxx® 250 with Vibrance, Vayantis®
HC	Hefty Complete
Lum, L1	(2022) LumiGEN, Lumisure 1250
Se,Sa,Sn,Sp	Senator 250, Sativa, Spirato, Sebring
Treated	Treated seed, unspecified

* Seed treatments may include unspecified plant health promoting components.