

Test by: NewVenture, LLC Ellendale, MN

## 2022 Corn Grain Top 30 Harvest Report

Minnesota West Central [MNWC] STARBUCK, MN

Matt Moe, Pope County, MN 56381

**Early-Season Test** 93 - 98 Day CRM  
B2022MNWC03a

**Top 30 of 45** For Gross Income  
(Sorted by Yield)  
Average of (3) Replications

**PREV. CROP/HERB:** Soybeans / Class Act, Interlock,  
Roundup Power Max, Ultra  
Blazer, Flexstar, Section Three

**SOIL DESCRIPTION:** Hokans-Buse Complex loam,  
well drained, non-irrigated

**SOIL CONDITION:** Conventional W/ Fall Till, very  
high P, high K, 7.3 pH, 2.3%  
OM, 18.5 CEC

**PEST MANAGEMENT:** Harnessmax, Roundup  
Powermax, Atrazine, Deliver

**FERTILITY - Applied N:** 145 Spring

**Applied N-P-K (units):** 145-65-85

**SEEDED - RATE - ROW:** May 24 35.0 /A 30" spacing

**HARVESTED - STAND:** Oct 21 37.0 /A

### TEST COMMENTS:

*This site was planted late due to a wet and cool start to the season. Matt noted that he had corn ground four miles away that caught more of the rains and it had much higher yields than the plot site. This site has had two years in a row of very dry growing seasons. The stand and weed control were both very good. This site just needed to be lucky to catch more rain. One replicate was removed in the full-season test due to high yield variance.*

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Gold Country	98-15RSS ↗	STX	98	<b>169.2</b>	14.9	0	36.3	1100	1
Federal	4830 TRE ↗	TRE	98	<b>165.4</b>	14.7	0	32.7	1075	2
Epley	E9807TRE ↗	TRE	98	<b>162.7</b>	14.0	0	35.8	1058	3
Renk	RK590VT2P ↗	VT2P	98	<b>161.6</b>	14.8	0	33.8	1050	4
Dairyland	DS-3477AM ↗	AM	94	159.5	14.4	0	35.3	1037	5
Federal	4833 VT2P ↗	VT2P	98	155.6	14.7	0	33.4	1011	6
Anderson	786R ↗	RR2	95	153.6	14.2	0	32.9	998	7
Latham	LH 4669 SS RIB ↗	STX	96	153.4	13.9	0	33.4	996	8
Hefty	H4653 RIB ↗	VT2PDG	96	152.7	14.2	0	34.8	993	9
Renk	RK444VT2P ↗	VT2P	93	150.7	14.7	0	35.3	980	10
Augusta	A2148-3220-EZ ↗	V	98	150.2	15.5	0	34.8	974	11
Titan Pro	11-98 2P ↗	VT2P	98	149.6	13.9	0	34.3	972	12
Enestvedt	E658DP RIB ↗	VT2P	96	149.1	14.3	0	34.8	969	13
Jacobsen	JS7045VT2PR GC ↗	VT2P	95	148.1	13.4	0	33.4	963	14
Latham	LH 4657 VT2P RIB ↗	VT2P	96	147.2	14.3	0	34.8	957	15
Gold Country	97-14R2P ↗	VT2P	97	146.7	14.7	0	32.4	954	16
Hefty	H4462 ↗	VT2P	94	145.2	14.1	0	35.3	944	18
Thunder	T8396 SS ↗	STX	96	144.7	15.0	0	34.4	940	19
Gold Country	95-36RSS ↗	STX	95	144.5	14.4	0	33.9	939	20
Jacobsen	JS8053TRE ↗	TRE	98	144.0	15.2	0	33.9	935	21
Hefty	H4844 RIB ↗	STX	98	143.8	14.2	0	34.8	935	22
Thunder	T6398 TRE ↗	TRE	98	142.9	15.0	0	35.6	928	23
Enestvedt	E692 ↗	TRE	98	142.5	14.5	0	34.8	926	24
Renk	RK502SSTX ↗	STX	95	142.0	14.5	0	31.4	923	25
Dairyland	DS-3727AM ↗	AM	97	141.9	14.1	0	33.9	922	26
Latham	LH 4517 VT2P RIB ↗	VT2P	95	139.1	13.8	0	33.4	904	27
Dairyland	DS-3550AM ↗	AM	95	138.4	14.1	0	32.9	900	28
Thunder	T6397 AA ↗	AA	97	137.6	15.2	0	35.6	894	29
Hefty	H4732 ↗	VT2P	97	136.7	14.3	0	32.9	889	30
Hefty	H4332 ↗	VT2P	93	136.5	13.8	0	32.4	887	31
PIONEER	P0075AM CK	AM	100	147.2	15.9	0	30.9	953	17

Averages = **141.5** **14.4** **37.0** **921**

LSD (0.10) = 18.7 0.7 ns

LSD (0.25) = 9.8 0.4 ns

Ed Dahle

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C.V. = 12.5

Historic yield: 202.55 bu/a, 6 yr(s)

**Yield & Income Factors:** Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.03 Prices: GMO = \$6.50

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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Test by: NewVenture, LLC Ellendale, MN

## 2022 Corn Grain Top 30 Harvest Report

Minnesota West Central [MNWC] STARBUCK, MN

Matt Moe, Pope County, MN 56381

**Full-Season Test** 99 - 102 Day CRM  
B2022MNWC03b

**Top 30 of 41** For Gross Income  
(Sorted by Yield)  
Average of (2) Replications

**PREV. CROP/HERB:** Soybeans / Class Act, Interlock,  
Roundup Power Max, Ultra  
Blazer, Flexstar, Section Three

**SOIL DESCRIPTION:** Hokans-Buse Complex loam,  
well drained, non-irrigated

**SOIL CONDITION:** Conventional W/ Fall Till, very  
high P, high K, 7.3 pH, 2.3%  
OM, 18.5 CEC

**PEST MANAGEMENT:** Harnessmax, Roundup  
Powermax, Atrazine, Deliver

**FERTILITY - Applied N:** 145 Spring

**Applied N-P-K (units):** 145-65-85

**SEEDED - RATE - ROW:** May 24 35.0 /A 30" spacing

**HARVESTED - STAND:** Oct 21 33.9 /A

### TEST COMMENTS:

*This site was planted late due to a wet and cool start to the season. Matt noted that he had corn ground four miles away that caught more of the rains and it had much higher yields than the plot site. This site has had two years in a row of very dry growing seasons. The stand and weed control were both very good. This site just needed to be lucky to catch more rain. One replicate was removed in the full-season test due to high yield variance.*

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Latham	LH 4937 VT2P RIB ↗	VT2P	99	<b>196.3</b>	15.3	0	35.6	1274	1
Enestvedt	E600DP RIB ↗	VT2P	99	<b>194.8</b>	15.9	0	31.9	1261	2
Golden Harvest	G00A97-AA ↗	AA	100	<b>193.3</b>	16.0	0	34.8	1251	3
Renk	RK615SSTX ↗	STX	102	<b>189.2</b>	15.9	0	33.4	1225	4
Dairyland	DS-3900AM ↗	AM	99	<b>189.0</b>	16.0	0	36.3	1223	5
Golden Harvest	G02K39-D ↗	D	102	<b>183.5</b>	15.7	0	32.7	1189	6
Thunder	T6300 VT2P ↗	VT2P	100	<b>183.5</b>	17.4	0	34.9	1180	7
Thunder	T6999 VT2P ↗	VT2P	99	177.9	14.9	0	35.6	1156	8
Renk	RK600VT2P ↗	VT2P	100	175.7	14.3	0	36.3	1142	9
Renk	RK597SSPRO ↗	STXP	99	174.9	15.0	0	35.6	1137	10
Latham	LH 4957 VT2P RIB ↗	VT2P	99	173.8	15.7	0	34.1	1126	11
Dairyland	DS-4219AM ↗	AM	102	173.0	16.6	0	34.1	1116	13
Anderson	681VT2P ↗	VT2P	100	172.4	15.4	0	34.9	1118	12
Latham	LH 5245 VT2P RIB ↗	VT2P	102	172.3	16.7	0	35.6	1111	15
Hefty	H5062 ↗	VT2P	100	171.1	15.6	0	35.6	1109	16
Dairyland	DS-4014Q ↗	QR	100	171.0	13.8	0	35.6	1112	14
Latham	LH 5047 VT2P RIB ↗	VT2P	100	170.5	14.8	0	33.4	1108	17
Hefty	H5254 ↗	STX	102	169.3	16.3	0	30.5	1094	18
Augusta	A22-250 ↗	AA	100	168.2	16.3	0	34.1	1087	19
Thunder	T6902 VT2P ↗	VT2P	102	166.7	16.5	0	31.2	1076	21
Federal	5120 TRE ↗	TRE	101	166.3	14.9	0	34.8	1080	20
Enestvedt	E539DP RIB ↗	VT2P	102	162.5	16.6	0	34.1	1048	23
Dairyland	DS-3959Q ↗	QR	99	162.4	16.0	0	32.7	1050	22
Renk	RK579DGV2P ↗	VT2PDG	99	162.0	16.3	0	35.6	1046	24
Integra	4993 TRERIB ↗	TRE	99	161.2	16.2	0	31.9	1042	25
Gold Country	101-51RSP ↗	STXP	101	159.9	15.9	0	33.4	1034	27
Federal	5280 VT2PRIB ↗	VT2P	102	159.7	15.1	0	32.0	1038	26
Dairyland	DS-4018AM ↗	AM	101	158.9	14.0	0	36.3	1033	28
Federal	5200 VP3110 ↗	3110	102	158.2	15.2	0	36.3	1027	30
Gold Country	99-01R2P ↗	VT2P	99	156.8	14.9	0	34.1	1019	31
PIONEER	P0075AM CK	AM	100	158.3	15.2	0	32.7	1028	29

Averages = **166.0** **15.6** **33.9** **1078**

LSD (0.10) = 16.9 0.8 ns

LSD (0.25) = 8.8 0.4 ns

C.V. = 7.8

Historic yield: 202.55 bu/a, 6 yr(s)

Ed Dahle

ed.dahle@firstseedtests.com, (507) 456-6624

**Yield & Income Factors:**

Base Moisture = 15.0%

Shrink = 1.3

Drying = \$0.03

Prices: GMO = \$6.50

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

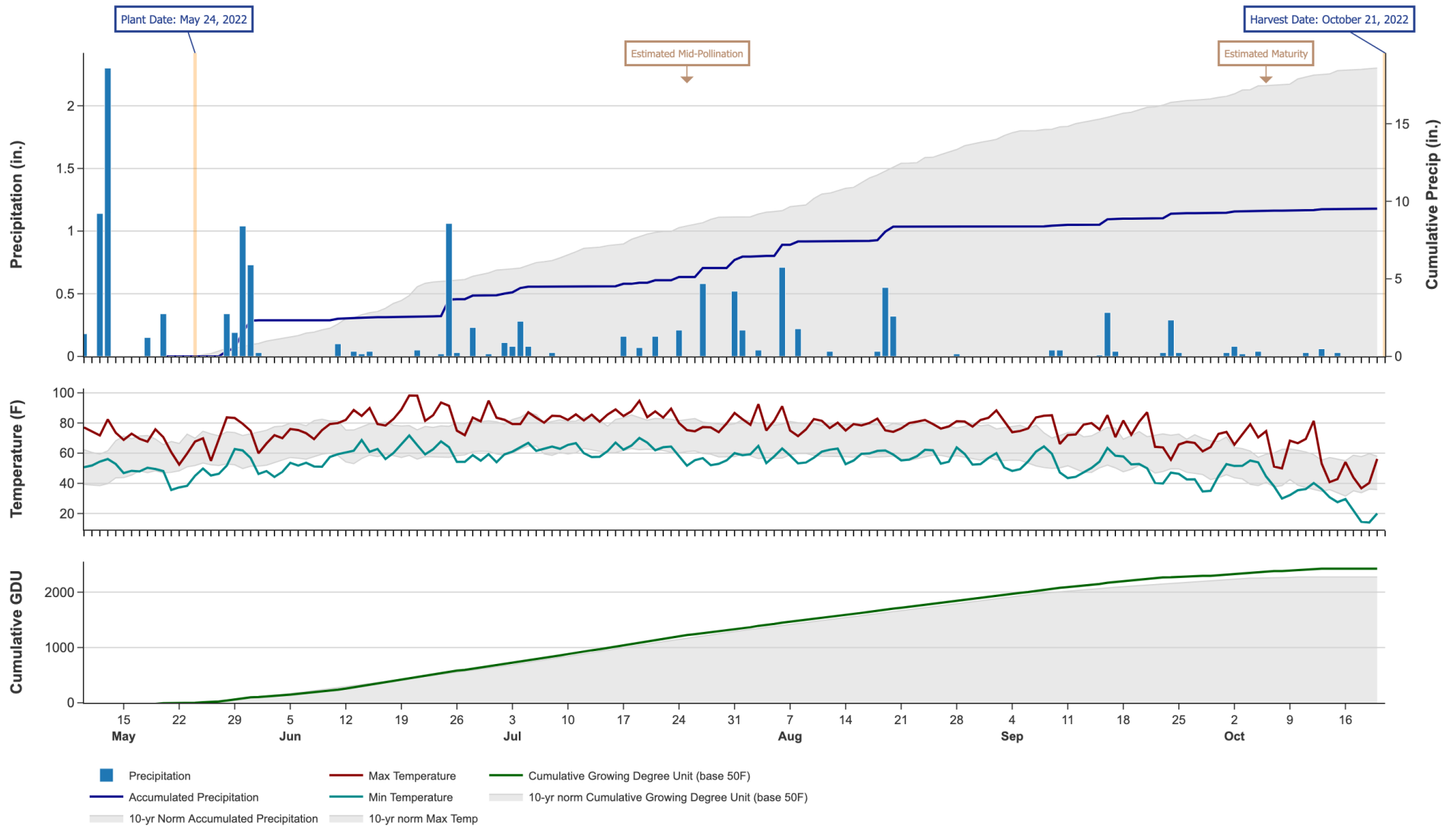
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# 2022 Corn - Minnesota West Central [ MNWC ]

## Weather Conditions Summary at STARBUCK, MN

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in)   Normal (Diff)	6.4   2.6 (+3.8)	1.6   4.6 (-3.0)	2.3   3.6 (-1.3)	2.2   4.8 (-2.7)	0.8   2.9 (-2.0)	0.3   1.9 (-1.6)	13.6   20.5 (-6.8)
GDU   Normal (Diff)	243   207 (+35)	558   539 (+19)	669   661 (+7)	578   570 (+7)	402   369 (+32)	118   47 (+70)	2568   2394 (+173)



\* 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 - Minnesota West Central [ MNWC ]

### Early-Season Test Products (45 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Anderson	786R	RR2	N	95	Treated
Augusta	A1946-3120	AA	N	95	AC,P5V
Augusta	A2148-3220-EZ	V	Y	98	CM,C2
Dairyland	DS-3477AM	AM	Y	94	Lum, L1
Dairyland	DS-3550AM	AM	Y	95	Lum, L1
Dairyland	DS-3601AM	AM	Y	96	Lum, L1
Dairyland	DS-3727AM	AM	Y	97	Lum, L1
Enestvedt	E640DP RIB	VT2P	Y	94	AC,P2
Enestvedt	E658DP RIB	VT2P	Y	96	AC,P2
Enestvedt	E692	TRE	Y	98	P5V
Epley	E9807TRE	TRE	N	98	Vi5
Federal	4830 TRE	TRE	Y	98	AC,P5V,MAG
Federal	4833 VT2P	VT2P	Y	98	AC,P2,MAG
Gold Country	95-36RSS	STX	Y	95	AC,P5V,EDC-B
Gold Country	97-14R2P	VT2P	N	97	AC,P5V,EDC-B
Gold Country	98-15RSS	STX	Y	98	AC,P5V,EDC-B
Golden Harvest	G93A49-D	D	Y	93	AVC,C2,Vi,Va
Golden Harvest	G95D32-V GC	V	Y	95	AVC,C2,Vi,Va
Golden Harvest	G97A36-V	V	Y	97	AVC,C2,Vi,Va
Hefty	H4332	VT2P	N	93	HC
Hefty	H4462	VT2P	N	94	HC
Hefty	H4653 RIB	VT2PDG	Y	96	HC
Hefty	H4732	VT2P	N	97	HC
Hefty	H4844 RIB	STX	Y	98	HC
Integra	4509 VT2PRIB	VT2P	Y	95	AC,P5V,SU+Zn
Integra	4702 VT2PRIB	VT2P	Y	97	AC,P5V,SU+Zn
Jacobsen	JS7045VT2PR GC	VT2P	Y	95	AC,P2,Va
Jacobsen	JS8053TRE	TRE	N	98	AC,P2,Va
Latham	LH 4375 VT2P RIB	VT2P	Y	93	AC,P2
Latham	LH 4517 VT2P RIB	VT2P	Y	95	AC,P2
Latham	LH 4527 VT2P RIB	VT2P	Y	95	AC,P5V,EDC-B
Latham	LH 4657 VT2P RIB	VT2P	Y	96	AC,P2
Latham	LH 4669 SS RIB	STX	Y	96	AC,P5V
Pioneer	P0075AM CK	AM	Y	100	Lum
Renk	RK444VT2P	VT2P	N	93	AC,P5V
Renk	RK502SSTX	STX	N	95	AC,P5V
Renk	RK561DGV2P	VT2PDG	N	95	AC,P2
Renk	RK590VT2P	VT2P	N	98	AC,P2
Thunder	T6298 VT2P	VT2P	Y	98	AC,P2
Thunder	T6397 AA	AA	Y	97	AC,P2
Thunder	T6398 TRE	TRE	Y	98	AC,P2
Thunder	T6996 VT2P	VT2P	Y	96	AC,P2

Company/Brand	Brand/Product	Technology	RIB	RM	Seed Treat.
Thunder	T8396 SS	STX	Y	96	AC,P5V,EDC-B
Titan Pro	11-98 2P	VT2P	Y	98	AC,P2
Titan Pro	82-95 2P	VT2P	Y	95	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 - Minnesota West Central [ MNWC ]

### Full-Season Test Products (41 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Anderson	681VT2P	VT2P	N	100	AC,P2
Augusta	A22-250	AA	Y	100	CM,C5,Vi
Dairyland	DS-3900AM	AM	Y	99	Lum, L1
Dairyland	DS-3959Q	QR	Y	99	Lum, L1
Dairyland	DS-4014Q	QR	Y	100	Lum, L1
Dairyland	DS-4018AM	AM	Y	101	Lum, L1
Dairyland	DS-4219AM	AM	Y	102	Lum, L1
Enestvedt	E539DP RIB	VT2P	Y	102	AC,P2
Enestvedt	E600DP RIB	VT2P	Y	99	AC,P2
Federal	5120 TRE	TRE	Y	101	AC,P2,MAG
Federal	5200 VP3110	3110	Y	102	AC,P2,MAG
Federal	5280 VT2PRIB	VT2P	Y	102	AC,P2,MAG
Gold Country	100-19TRE	TRE	Y	100	Treated
Gold Country	101-51RSP	STXP	Y	101	Treated
Gold Country	99-01R2P	VT2P	N	99	AC,P5V,B300
Golden Harvest	G00A97-AA	AA	Y	100	AVC,C2,Vi,Va
Golden Harvest	G02K39-D	D	Y	102	AVC,C2,Vi,Va
Hefty	H4933 RIB	VT2PDG	Y	99	HC
Hefty	H4942 RIB	VT2P	Y	99	HC
Hefty	H5055	TRE	N	100	HC
Hefty	H5062	VT2P	N	100	HC
Hefty	H5254	STX	N	102	HC
Integra	4993 TRERIB	TRE	N	99	AC,P5V
Integra	5052 VT2PRIB	VT2P	Y	100	AC,P5V,SU+Zn
Integra	5280 VT2PRIB	VT2P	Y	102	AC,P5V,SU+Zn
Jacobsen	JS7107VT2PR	VT2P	Y	102	AC,P2,Va
Latham	LH 4937 VT2P RIB	VT2P	Y*	99	AC,P2
Latham	LH 4957 VT2P RIB	VT2P	Y	99	AC,P2,Sb
Latham	LH 5047 VT2P RIB	VT2P	Y	100	AC,P2
Latham	LH 5209 DV	DV	Y	102	AVC,C2,Vi,Va
Latham	LH 5245 VT2P RIB	VT2P	Y	102	AC,P2
Pioneer	P0075AM CK	AM	Y	100	Lum
Renk	RK579DGV2P	VT2PDG	Y	99	AC,P2
Renk	RK597SSPRO	STXP	N	99	AC,P5V
Renk	RK600VT2P	VT2P	N	100	AC,P2
Renk	RK615SSTX	STX	Y	102	AC,P5V
Thunder	T6300 VT2P	VT2P	Y	100	AC,P5V,EDC-B
Thunder	T6902 VT2P	VT2P	Y	102	CM,C2,Vi
Thunder	T6999 VT2P	VT2P	Y	99	AC,P2
Titan Pro	16-00 5222	DV	Y	100	CM,C2
Titan Pro	26-02 PCE	PC,E	N	102	CM,C2

\* 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

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^	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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3110	Agrisure® 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
E	Enlist™ (2,4-D, glyphosate, fop herbicide tolerance)
PC	PowerCore™
QR	Qrome™
RR2	Roundup Ready® 2 Corn
STX	SmartStax®
STXP	SmartStax® Pro
TRE	Trecepta®
V	Viptera™ (Vip,CB,HX,LL,GT), formerly Agrisure Viptera® 3220
VT2P	VT Double PRO®
VT2PDG	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
AC,P2	Acceleron® 250
AC,P2,MAG	Acceleron® 250, Federal ArmourGuard
AC,P2,Sb	Acceleron® 250, SabrEx Inoculant
AC,P2,Va	Acceleron® 250, Vayantis®
AC,P5V	Acceleron® Poncho 500/Votivo
AC,P5V,B300	Acceleron® Poncho 500/Votivo with B-300 SAT
AC,P5V,EDC-B	Acceleron® BASIC Poncho 500/Votivo with Enhanced Disease Control
AC,P5V,MAG	Acceleron® Poncho 500/Votivo, Federal ArmorGuard
AC,P5V,SU+Zn	Acceleron® Poncho 500/Votivo, StepUp SP, StepUp Zn
AVC,C2,Vi,Va	Avicta® Complete 250, Vibrance®, Vayantis®
CM,C2	CruiserMaxx® 250
CM,C2,Vi	CruiserMaxx® 250 with Vibrance
CM,C5,Vi	CruiserMaxx® 500 with Vibrance
HC	Hefty Complete
Lum	LumiGEN™ (Corteva Agriscience)
Lum, L1	(2022) LumiGEN, Lumisure 1250
P5V	Poncho 500/Votivo
Treated	Treated seed, unspecified
Vi5	Vibrance® Cinco

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