

Test by: NewVenture, LLC Ellendale, MN

2022 Corn Grain Top 30 Harvest Report

Minnesota West Central [MNWC] LESTER PRAIRIE, MN
Nathan Ide, McCloud County, MN 55354

Early-Season Test	93 - 98 Day CRM B2022MNWC02a
Top 30 of 45	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn, 2+ Yr / Force, Harness, Calisto, Surestart
SOIL DESCRIPTION:	Le Sueur- Lester Complex loam, mod. poorly drained, non-irrigated
SOIL CONDITION:	Conventional W/ Fall Till, very high P, very high K, 6.8 pH, 3.9% OM, 16.3 CEC
PEST MANAGEMENT:	Force, Harness, Calisto, Surestart
FERTILITY - Applied N:	180 Spring, 10# sulfur
Applied N-P-K (units):	180-46-180
SEEDED - RATE - ROW:	May 17 35.0 /A 30" spacing
HARVESTED - STAND:	Oct 25 34.2 /A

TEST COMMENTS:

Soil conditions at planting were damp. There were spots in the plot that were lumpy and the stand was not perfect in some areas. The site was short on rain the entire season. The plot just needed more consistent rainfall throughout the growing season to reach top-end yield.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Dairyland	DS-3601AM ↗	AM	96	234.4	15.3	0	34.3	1522	1
Dairyland	DS-3727AM ↗	AM	97	218.9	16.0	0	33.4	1416	2
Gold Country	98-15RSS ↗	STX	98	215.4	16.0	0	35.6	1394	3
Golden Harvest	G97A36-V ↗	V	97	214.8	16.6	0	34.3	1386	4
Augusta	A2148-3220-EZ ↗	V	98	210.2	16.8	0	35.3	1355	6
Dairyland	DS-3550AM ↗	AM	95	210.0	16.1	0	34.8	1358	5
Thunder	T6398 TRE ↗	TRE	98	208.3	16.2	0	35.8	1347	7
Enestvedt	E658DP RIB ↗	VT2P	96	206.6	15.9	0	35.3	1338	8
Golden Harvest	G95D32-V GC ↗	V	95	205.7	16.1	0	35.3	1330	9
Federal	4830 TRE ↗	TRE	98	205.7	16.2	0	34.3	1329	11
Renk	RK590VT2P ↗	VT2P	98	205.6	16.0	0	34.3	1330	10
Latham	LH 4657 VT2P RIB ↗	VT2P	96	205.0	16.0	0	35.3	1326	12
Gold Country	97-14R2P ↗	VT2P	97	203.4	15.6	0	34.8	1318	13
Titan Pro	11-98 2P ↗	VT2P	98	203.1	16.2	0	33.4	1313	15
Thunder	T6996 VT2P ↗	VT2P	96	202.8	15.8	0	33.4	1314	14
Thunder	T6298 VT2P ↗	VT2P	98	201.7	15.8	0	34.8	1306	16
Epley	E9807TRE ↗	TRE	98	200.7	16.4	0	34.8	1296	17
Integra	4509 VT2PRIB ↗	VT2P	95	200.0	15.9	0	33.9	1295	18
Hefty	H4332 ↗	VT2P	93	198.9	15.4	0	32.4	1290	19
Hefty	H4653 RIB ↗	VT2PDG	96	197.7	15.6	0	34.8	1282	20
Dairyland	DS-3477AM ↗	AM	94	196.8	15.2	0	35.3	1278	21
Thunder	T6397 AA ↗	AA	97	194.5	16.4	0	32.4	1256	23
Latham	LH 4517 VT2P RIB ↗	VT2P	95	193.6	15.3	0	34.3	1257	22
Renk	RK502SSTX ↗	STX	95	193.4	15.7	0	32.9	1253	24
Latham	LH 4375 VT2P RIB ↗	VT2P	93	192.2	14.9	0	35.8	1249	25
Latham	LH 4669 SS RIB ↗	STX	96	190.0	15.6	0	32.9	1232	26
Jacobsen	JS8053TRE ↗	TRE	98	189.7	15.4	0	34.8	1231	27
Hefty	H4844 RIB ↗	STX	98	189.7	15.4	0	33.9	1231	28
Hefty	H4462 ↗	VT2P	94	188.7	15.4	0	33.9	1224	29
Federal	4833 VT2P ↗	VT2P	98	188.4	15.7	0	34.3	1220	30
PIONEER	P0075AM CK	AM	100	164.9	16.8	0	31.5	1063	44

Averages = **194.4** **15.8** **34.2** **1259**

LSD (0.10) = 17.8 0.4 ns

LSD (0.25) = 9.3 0.2 ns

C.V. = 8.7

Historic yield: 195.28 bu/a, 9 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: 10/25/2022

† 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] LESTER PRAIRIE, MN
Nathan Ide, McCloud County, MN 55354

Full-Season Test	99 - 102 Day CRM B2022MNWC02b
Top 30 of 41	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Corn, 2+ Yr / Force, Harness, Calisto, Surestart
SOIL DESCRIPTION:	Le Sueur- Lester Complex loam, mod. poorly drained, non-irrigated
SOIL CONDITION:	Conventional W/ Fall Till, very high P, very high K, 6.8 pH, 3.9% OM, 16.3 CEC
PEST MANAGEMENT:	Force, Harness, Calisto, Surestart
FERTILITY - Applied N:	180 Spring, 10# sulfur
Applied N-P-K (units):	180-46-180
SEEDED - RATE - ROW:	May 17 35.0 /A 30" spacing
HARVESTED - STAND:	Oct 25 34.6 /A

TEST COMMENTS:

Soil conditions at planting were damp. There were spots in the plot that were lumpy and the stand was not perfect in some areas. The site was short on rain the entire season. The plot just needed more consistent rainfall throughout the growing season to reach top-end yield.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Renk	RK615SSTX ↗	STX	102	214.9	16.4	0	33.4	1388	1
Integra	5280 VT2PRIB ↗	VT2P	102	209.1	17.2	0	35.6	1345	2
Thunder	T6999 VT2P ↗	VT2P	99	205.5	15.4	0	34.8	1333	3
Renk	RK600VT2P ↗	VT2P	100	205.4	16.2	0	32.7	1327	4
Dairyland	DS-3959Q ↗	QR	99	203.9	17.3	0	35.6	1312	5
Hefty	H5055 ↗	TRE	100	200.6	15.9	0	34.8	1298	6
Integra	4993 TRERIB ↗	TRE	99	199.4	16.2	0	33.8	1289	7
Latham	LH 5245 VT2P RIB ↗	VT2P	102	198.1	16.8	0	34.3	1277	8
Latham	LH 4957 VT2P RIB ↗	VT2P	99	197.0	16.2	0	34.3	1273	9
Thunder	T6300 VT2P ↗	VT2P	100	196.5	16.1	0	34.3	1271	10
Gold Country	99-01R2P ↗	VT2P	99	195.5	15.9	0	34.3	1265	11
Renk	RK597SSPRO ↗	STXP	99	195.1	16.0	0	36.3	1262	12
Hefty	H5062 ↗	VT2P	100	191.9	16.3	0	34.8	1240	13
Hefty	H4942 RIB ↗	VT2P	99	191.0	16.0	0	33.4	1236	14
Federal	5120 TRE ↗	TRE	101	190.3	15.6	0	35.3	1234	15
Dairyland	DS-3900AM ↗	AM	99	188.5	16.7	0	35.3	1216	16
Anderson	681VT2P ↗	VT2P	100	187.4	15.9	0	35.3	1213	17
Jacobsen	JS7107VT2PR ↗	VT2P	102	186.2	16.4	0	34.8	1203	18
Hefty	H5254 ↗	STX	102	185.7	16.5	0	33.8	1199	19
Gold Country	101-51RSP ↗	STXP	101	185.0	16.9	0	35.3	1192	21
Gold Country	100-19TRE ↗	TRE	100	184.7	15.9	0	34.8	1196	20
Dairyland	DS-4014Q ↗	QR	100	184.2	16.2	0	34.8	1190	22
Golden Harvest	G00A97-AA ↗	AA	100	184.1	16.8	0	36.3	1187	23
Federal	5280 VT2PRIB ↗	VT2P	102	183.8	16.7	0	35.3	1185	24
Titan Pro	26-02 PCE ↗	PC,E	102	183.6	17.9	0	34.8	1177	25
Enestvedt	E600DP RIB ↗	VT2P	99	178.3	16.4	0	35.3	1152	26
Renk	RK579DGV2P ↗	VT2PDG	99	177.0	15.7	0	34.8	1147	27
Enestvedt	E539DP RIB ↗	VT2P	102	174.9	16.7	0	34.4	1128	28
Latham	LH 5209 DV ↗	DV	102	174.8	17.0	0	35.8	1126	29
Integra	5052 VT2PRIB ↗	VT2P	100	173.5	15.9	0	32.9	1123	30
PIONEER	P0075AM CK	AM	100	156.7	16.3	0	34.8	1012	39

Averages = **183.4** **16.4** **34.6** **1186**

LSD (0.10) = 19.4 0.3 ns

LSD (0.25) = 10.1 0.2 ns

C.V. = 10.0

Historic yield: 195.28 bu/a, 9 yr(s)

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Yield & Income Factors:

Base Moisture = 15.0%

Shrink = 1.3

Drying = \$0.03

Prices: GMO = \$6.50

Report Date: 10/25/2022

† 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

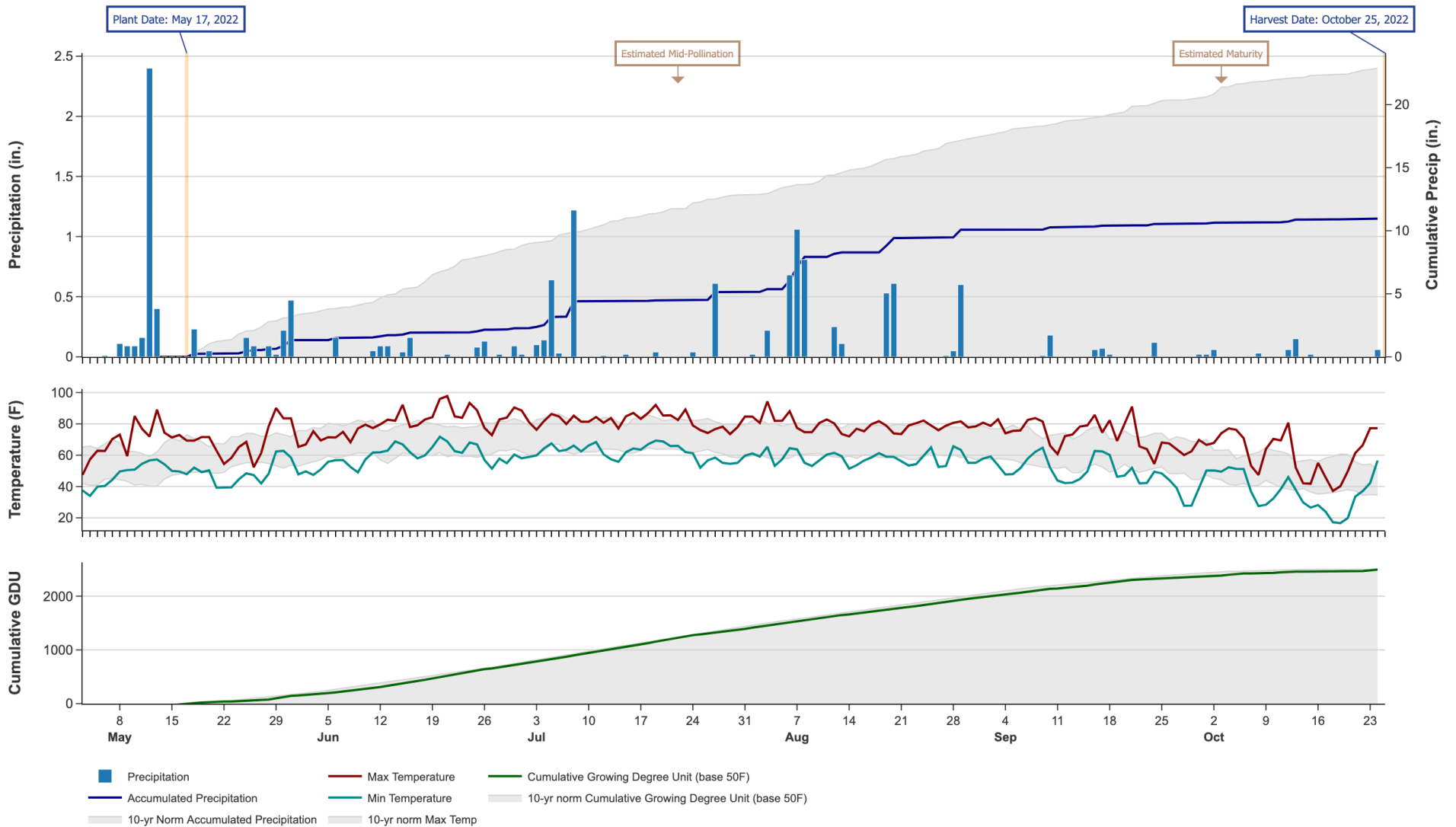
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2022 Corn - Minnesota West Central [MNWC]

Weather Conditions Summary at LESTER PRAIRIE, MN

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	4.6 4.9 (-0.3)	0.9 5.4 (-4.5)	2.9 4.3 (-1.4)	5.0 4.6 (+0.4)	0.5 3.1 (-2.6)	0.4 2.3 (-1.9)	14.2 24.6 (-10.4)
GDU Normal (Diff)	299 279 (+19)	573 581 (-8)	674 692 (-18)	577 596 (-19)	386 395 (-9)	143 66 (+76)	2652 2612 (+39)



* 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

^	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)
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®

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

Corn Seed Treatments*

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

* Seed treatments may include unspecified plant health promoting components.