

Test by: NewVenture, LLC Ellendale, MN

2021 Corn Grain Top 30 Harvest Report

Minnesota West Central [MNWC] KERKHOVEN, MN

Rolo Dairy, Rod and Brody Lindquist, Swift County, MN 56252

Early-Season Test 93 - 98 Day CRM
B2021MNWC05a

Top 30 of 48 For Gross Income
(Sorted by Yield)
Average of (3) Replications

PREV. CROP/HERB: Corn / Deliver, Mesostar, Triple Flex, Roundup Power Max, Latch

SOIL DESCRIPTION: Ortonville Loam loam, mod. well drained, non-irrigated

SOIL CONDITION: Conventional W/ Fall Till, low P, medium K, 7.7 pH, 5.5% OM, 28.2 CEC

PEST MANAGEMENT: Force, Triple Flex, Roundup Power Max, Latch, Deliver, Mesostar

FERTILITY - Applied N: 210 Spring, 15 lbs S and 2 lbs Zn

Applied N-P-K (units): 210-80-60

SEEDED - RATE - ROW: May 4 35.0 /A 30" spacing

HARVESTED - STAND: Oct 22 32.8 /A

TEST COMMENTS:

This is a very flat and uniform plot site. The corn was standing very well at harvest with very little lodging noted. Brody said that the rains came just in time during the growing season. The front range of the plot, the early-season test, had weaker looking corn from the drought stress. It was a good plot, and thank you to Rod and Brody for hosting again this year. The early-season test had high yield variation due to drought stress is not reported.

Company/Brand	Product/Brand	Yield [†]	Mo	Yield Bu/a	Moisture %	Lodging %	Stand (A 30")	Gross Income \$/A	Rank
Rock	Mesostar VTOP	VTOP	98	210.8	16.7	0	32.8	924	1
Tripp	11-88 3P	VTOP	98	207.8	17.0	0	32.8	928	2
Deliver	888-20V2PMS	VTOP	98	204.1	16.6	0	32.8	912	3
Gold Country	88-118P	VTOP	98	203.9	16.3	0	32.8	910	4
Deliver	20-20000	HR	97	200.7	16.9	0	32.8	898	5
Deliver	7000	HR	97	197.1	16.1	0	32.8	890	6
Latham	11-4017 VTOP HR	VTOP	97	196.9	16.8	0	32.8	890	7
Latham	11-4076 VTOP HR	VTOP	97	196.9	16.8	0	32.8	890	8
Gold Country	87-148P	VTOP	97	196.3	16.3	0	32.8	892	9
July	11800 HR	VTOP	97	196.4	16.4	0	32.8	878	10
Tripp	82-88 3P	VTOP	97	196.1	16.1	0	32.8	878	11
Rock	Mesostar V2PMS	VTOP	97	196.2	16.2	0	32.8	874	11
Deliver	888-20V2PMS	VTOP	97	196.1	16.2	0	32.8	874	12
Tripp	7000 VTOP	VTOP	97	196.1	16.8	0	32.8	888	14
Deliver	20-20000	HR	97	196.3	17.0	1	32.8	892	17
Proseed	2100 VTOPMS	VTOP	97	196.2	16.5	0	32.8	884	16
Rock	Mesostar VTOP	VTOP	97	195.7	16.7	0	32.8	890	15
Deliver	20-217000	HR	97	195.1	16.7	0	32.8	887	18
Tripp	4702 VTOPMS	VTOP	97	195.9	16.9	1	32.8	899	19
Proseed	1000 VTOP	VTOP	98	195.9	16.7	0	32.8	899	20
Tripp	4011 VTOP	VTOP	97	191.9	16.3	0	32.8	891	21
Rock	Mesostar VTOPMS	VTOPMS	96	195.9	16.1	0	32.8	896	22
Deliver	8000	HR	96	195.4	16.9	0	32.8	892	23
Latham	20100-8888 3P	VTOP	96	195.9	16.2	0	32.8	897	24
Deliver	201000	VTOP	97	196.4	16.9	0	34.1	907	25
Latham	11-4000 3P HR	HR	96	196.2	16.9	0	32.8	902	27
Tripp	88-88 3P	VTOP	96	196.2	16.1	0	32.8	908	26
Deliver	20000P HR	VTOP	96	197.3	16.4	0	32.8	900	28
July	11800 HR	VTOP	96	197.3	17.3	0	32.8	900	29
Proseed	4011 VTOP	VTOP	96	196.2	16.1	0	32.8	900	30



Averages = **186.4** **16.4** **0** **32.8** **924**
 LSD (0.10) = ns 0.6 ns
 LSD (0.25) = ns 0.3 ns
 C.V. = 11.5 Historic yield: 204.92 bu/a, 5 yr(s)

Ed Dahle

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Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$5.00

Report Date: 10/23/2021

Additional reports available at www.firstseedtests.com

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

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2021 Corn Grain Top 30 Harvest Report

Minnesota West Central [MNWC] KERKHOVEN, MN

Rolo Dairy, Rod and Brody Lindquist, Swift County, MN 56252

Full-Season Test 99 - 102 Day CRM
B2021MNWC05b

Top 30 of 46 For Gross Income
(Sorted by Yield)
Average of (3) Replications

PREV. CROP/HERB: Corn / Deliver, Mesostar, Triple Flex, Roundup Power Max, Latch

SOIL DESCRIPTION: Ortonville Loam loam, mod. well drained, non-irrigated

SOIL CONDITION: Conventional W/ Fall Till, low P, medium K, 7.7 pH, 5.5% OM, 28.2 CEC

PEST MANAGEMENT: Force, Triple Flex, Roundup Power Max, Latch, Deliver, Mesostar

FERTILITY - Applied N: 210 Spring, 15 lbs S and 2 lbs Zn

Applied N-P-K (units): 210-80-60

SEEDED - RATE - ROW: May 4 35.0 /A 30" spacing

HARVESTED - STAND: Oct 22 33.3 /A

TEST COMMENTS:

This is a very flat and uniform plot site. The corn was standing very well at harvest with very little lodging noted. Brody said that the rains came just in time during the growing season. The front range of the plot, the early-season test, had weaker looking corn from the drought stress. It was a good plot, and thank you to Rod and Brody for hosting again this year. The early-season test had high yield variation due to drought stress is not reported.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank	
Dyna-Gro	D43VC81 ↗	VT2P	102	231.0	18.7	0	32.9	1134	1	
Gold Country	99-01R2P ↗	VT2P	99	225.5	17.2	0	32.9	1115	2	
Gold Country	101-49RSS ↗	STX	101	222.3	17.8	0	34.3	1096	3	
Hefty	H5132 RIB ↗	VT2P	101	221.2	17.0	0	34.8	1095	4	
Enestvedt	E699DP RIB ↗	VT2P	99	219.4	17.3	0	33.9	1085	5	
Titan Pro	22-00 2P ↗	VT2P	100	217.9	17.9	0	34.8	1074	7	
Dyna-Gro	D40VC41 ↗	VT2P	100	217.1	16.7	0	33.9	1076	6	
Thunder	T6100 VT2P ↗	VT2P	100	216.6	16.9	0	33.4	1073	8	
Federal	5280 VT2PRIB ↗	VT2P	102	215.4	17.9	0	32.7	1061	10	
Dahlman	R50-25VT2PRIB ↗	VT2P	100	214.9	16.7	0	33.9	1065	9	
Latham	LH 5159 SS RIB ↗	STX	101	214.7	18.0	0	32.9	1057	11	
Hefty	H4933 RIB ↗	VT2PDG	99	213.5	17.3	0	34.3	1055	12	
Titan Pro	92-99 2P ↗	VT2P	99	213.2	17.0	3	34.3	1055	13	
Latham	LH 5049 SS RIB ↗	STX	100	213.1	17.4	0	34.3	1053	14	
Latham	LH 4937 VT2P RIB ↗	VT2P	99	211.8	16.5	0	32.9	1051	15	
Latham	LH 4957 VT2P RIB ↗	VT2P	99	211.3	17.3	0	31.0	1044	16	
Dairyland	DS-4014Q ↗	QR	100	210.7	18.3	0	30.0	1036	18	
Federal	5120 STX ↗	STX	101	210.3	18.1	0	32.9	1035	19	
AgriGold	A629-12VT2RIB GC ↗	VT2P	99	209.7	17.8	0	33.4	1034	20	
Hefty	H4922 RIB ↗	VT2P	99	209.5	17.1	0	33.8	1037	17	
Hefty	H5055 ↗	TRE	100	209.2	17.5	0	33.9	1033	21	
Thunder	T6999 VT2P ↗	VT2P	99	207.5	16.9	0	34.8	1028	22	
Integra	5280 VT2PRIB ↗	VT2P	102	207.0	18.2	0	32.4	1018	23	
Dairyland	DS-4000AMXT ↗	AMXT	100	205.5	17.7	0	32.9	1014	24	
Thunder	T8100 SS ↗	STX	100	204.6	17.2	0	34.1	1012	25	
Channel	199-29 STXRIB GC ↗	STX	99	204.4	17.6	0	34.1	1009	26	
Dairyland	DS-4018AM ↗	AM	101	203.8	17.7	0	33.4	1005	27	
Dairyland	DS-3959Q ↗	QR	99	203.1	18.2	0	33.4	999	29	
Gold Country	102-07RSS ↗	STX	102	202.5	18.4	0	33.9	995	30	
Renk	RK579DGVT2P ↗	VT2PDG	99	201.9	16.9	0	34.1	1000	28	
Pioneer	P0075Q CK	QR	100	195.8	18.3	0	33.4	963	36	
				Averages =	204.0	17.6	1	33.3	1007	
				LSD (0.10) =	14.1	0.5	3			
				LSD (0.25) =	7.4	0.3	2			
				C.V. =	6.5					
										Historic yield: 204.92 bu/a, 5 yr(s)

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Yield & Income Factors:

Base Moisture = 15.0%

Shrink = 1.3

Drying = \$0.025

Prices: GMO = \$5.00

Report Date: 10/23/2021

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

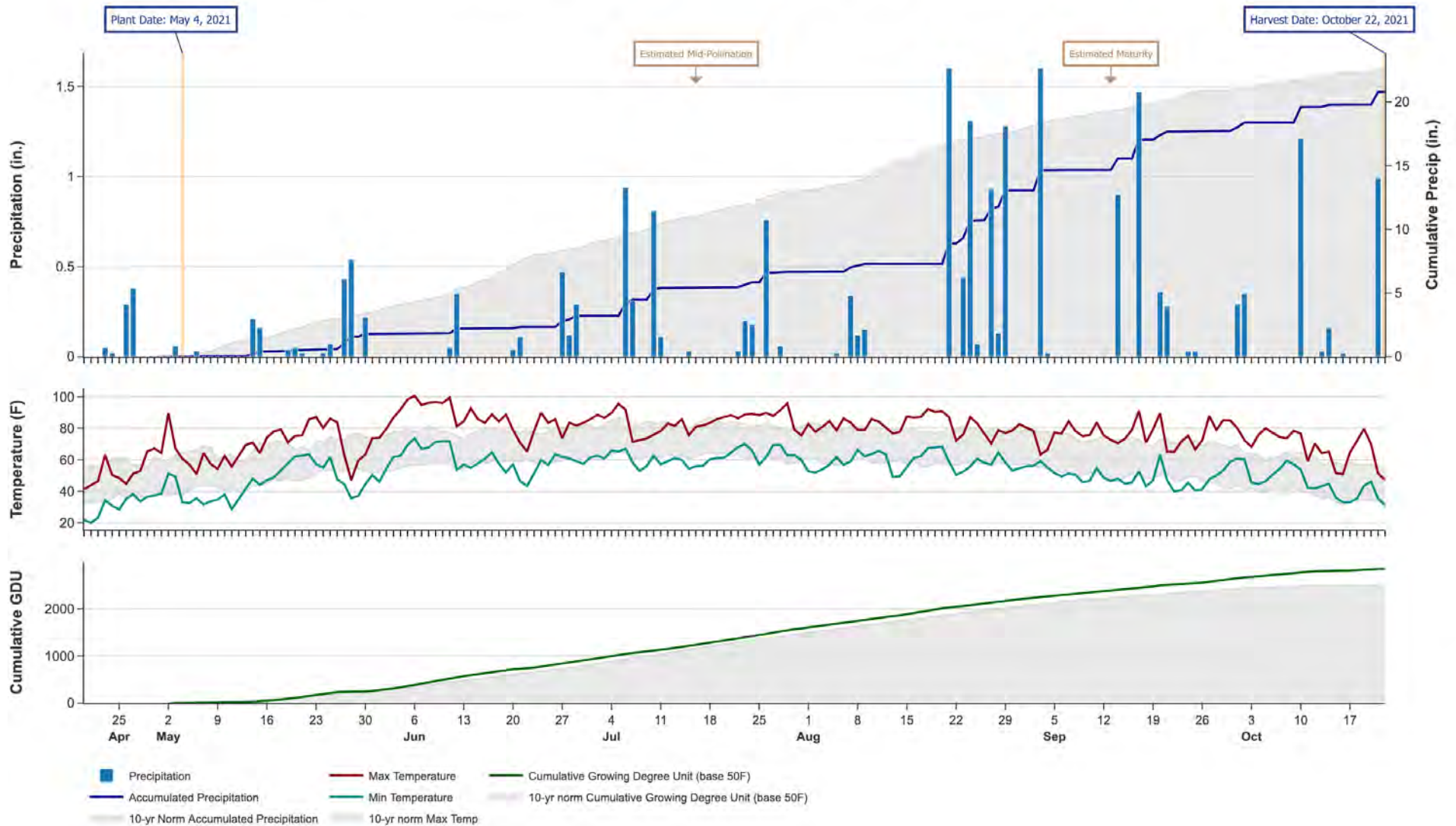
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2021 Corn - Minnesota West Central [MNWC]

Weather Conditions Summary at KERKHOVEN, MN

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	0.7 0.9 (-0.2)	1.9 3.7 (-1.8)	1.4 5.1 (-3.7)	3.4 4.4 (-1.0)	6.4 4.8 (+1.6)	4.7 3.1 (+1.6)	3.0 1.7 (+1.3)	21.6 23.7 (-2.2)
GDU Normal (Diff)	16 5 (+10)	292 270 (+21)	641 536 (+104)	686 685 (0)	620 581 (+38)	423 361 (+61)	216 66 (+149)	2894 2508 (+385)



* 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.

2021 Corn - Minnesota West Central [MNWC]

Early-Season Test Products (48 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Anderson	609R	RR2	N	98	MQ
Anderson	786R	RR2	N	95	MQ
Dahlman	R49-23VT2PRIB	VT2P	Y	98	AC,P2
Dahlman	R49-25VT2PRIB	VT2P	Y	98	AC,P2
Dairyland	DS-3366AM	AM	Y	93	Lum,P1V
Dairyland	DS-3550AM	AM	Y	95	Lum,P1V
Dairyland	DS-3715AM	AM	Y	97	Lum,P1V
Dairyland	DS-3727AM	AM	Y	97	Lum,P1V
DeKalb	DKC48-95RIB GC	VT2P	Y	98	AC,P5,B360
Dyna-Gro	D37VC64	VT2P	N	97	AC,P5V
Enestvedt	E658DP RIB	VT2P	Y	96	AC250
Federal	4820 VT2P	VT2P	N	98	AC,P5V,MAG
Federal	4880 VT2PRIB	VT2P	Y	98	AC,P2,MAG
Gold Country	94-44RSS	STX	N	94	AC,P5,B360
Gold Country	95-03R2P	VT2P	N	95	AC,P5,B360
Gold Country	97-14R2P	VT2P	N	97	AC,P5,B360
Gold Country	98-11R2P	VT2P	Y	98	AC,P5,B360
Golden Harvest	G95M41-5122 EZR	5122	Y	95	AVC,C2,Vi
Golden Harvest	G96R61-5222 EZR	5222	Y	96	AVC,C2,Vi
Hefty	H4322 RIB	VT2P	Y	93	HC
Hefty	H4332 RIB	VT2P	Y	93	HC
Hefty	H4522 RIB	VT2P	Y	95	HC
Hefty	H4732	VT2P	N	97	HC
Hefty	H4842 RIB	VT2P	Y	98	HC
Integra	4311 VT2PRIB	VT2P	Y	93	AC,P5V,SU
Integra	4509 VT2PRIB	VT2P	Y	95	AC,P2,SU
Integra	4702 VT2PRIB	VT2P	Y	97	AC,P5V,EDC-B
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 4657 VT2P RIB	VT2P	Y	96	AC,P2
Latham	LH 4669 SS RIB	STX	Y	96	AC,P5
NK Brand	NK9653-5222 EZR	5222	Y	96	AVC,C2,Vi
Pioneer	P0075Q CK	QR	Y	100	Lum
Proseed	1998 VT2PRIB	VT2P	Y	98	AVC,C2,Vi
Proseed	2196 VT2PRIB	VT2P	Y	96	AVC,C2,Vi
Renk	RK429-3220A	3220A	N	93	CM,C2
Renk	RK485DGV2P	VT2PDG	N	94	AC,P5V
Renk	RK561DGV2PRIB	VT2PDG	Y	95	AC,P2
Renk	RK590VT2P	VT2P	N	98	AC,P5V
Renk	RK593VT2PRIB	VT2P	Y	97	AC,P2
Thunder	T6294 VT2P	VT2P	Y	94	AC,P5,B360

Company/Brand	Brand/Product	Technology	RIB	RM	Seed Treat.
Thunder	T6298 VT2P	VT2P	Y	98	AC,P5,B360
Thunder	T6595 VT2P	VT2P	Y	95	AC,P2
Thunder	T6996 VT2P	VT2P	Y	96	AC,P2
Titan Pro	11-98 2P	VT2P	Y	98	AC,P5
Titan Pro	82-95 2P	VT2P	Y	95	AC,P2
Titan Pro	86-96 2P	VT2P	Y	96	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.

2021 Corn - Minnesota West Central [MNWC]

Full-Season Test Products (46 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
AgriGold	A629-12VT2RIB GC	VT2P	Y	99	AC,P5V
AgriGold	A631-90VT2PRO GC	VT2P	N	101	AC,P5V
Augusta	A2150-5222-EZ	5222	Y	100	CM,C2
Channel	199-29 STXRIB GC	STX	Y	99	AC,P5V
Dahlman	R50-25VT2PRIB	VT2P	Y	100	AC,P2
Dairyland	DS-3959Q	QR	Y	99	Lum,P1V
Dairyland	DS-4000AMXT	AMXT	Y*	100	Lum,P1V
Dairyland	DS-4014Q	QR	Y	100	Lum,P1V
Dairyland	DS-4018AM	AM	Y	101	Lum,P1V
Dyna-Gro	D40VC41	VT2P	N	100	AC,P5V
Dyna-Gro	D43VC81	VT2P	N	102	AC,P5V
Enestvedt	E600DP RIB	VT2P	Y	99	AC250
Enestvedt	E699DP RIB	VT2P	Y	99	AC250
Federal	5120 STX	STX	N	101	AC,P5V,MAG
Federal	5280 VT2PRIB	VT2P	Y	102	AC,P2,MAG
Gold Country	101-49RSS	STX	N	101	AC,P5V,B-360
Gold Country	102-07RSS	STX	Y	102	AC,P5V,B-360
Gold Country	99-01R2P	VT2P	N	99	AC,P5,B360
Golden Harvest	G02K39-5122 EZR	5122	Y	102	AVC,C2,Vi
Golden Harvest	G99E68-5122 EZR	5122	Y	99	AVC,C2,Vi
Hefty	H4922 RIB	VT2P	Y	99	HC
Hefty	H4933 RIB	VT2PDG	Y	99	HC
Hefty	H4942 RIB	VT2P	Y	99	HC
Hefty	H5055	TRE	N	100	HC
Hefty	H5132 RIB	VT2P	Y	101	HC
Integra	5052 STXRIB	STX	Y	100	AC,P5V,EDC-B
Integra	5280 VT2PRIB	VT2P	Y	102	AC,P2,SU
Latham	LH 4937 VT2P RIB	VT2P	Y	99	AC,P2
Latham	LH 4957 VT2P RIB	VT2P	Y	99	AC,P5V,EDC-B
Latham	LH 5049 SS RIB	STX	Y	100	AC,P5
Latham	LH 5159 SS RIB	STX	Y	101	AC,P5
Latham	LH 5209 5222-EZ	5222	Y	102	AVC,C5
NK Brand	NK0243-5122 EZR	5122	Y	102	AVC,C2,Vi
NK Brand	NK9930-5122 EZR	5122	Y	99	AVC,C2,Vi
NK Brand	NK9991-5122 EZR	5122	Y	99	AVC,C2,Vi
Pioneer	P0075Q CK	QR	Y	100	Lum
Renk	RK579DGV2P	VT2PDG	Y	99	AC,P2
Renk	RK600VT2P	VT2P	N	100	AC,P2
Thunder	T6100 VT2P	VT2P	Y	100	AC,P2
Thunder	T6902 VT2P	VT2P	Y	102	CM,C2,Vi
Thunder	T6999 VT2P	VT2P	Y	99	AC,P2
Thunder	T8100 SS	STX	Y	100	AC,P5

Company/Brand	Brand/Product	Technology	RIB	RM	Seed Treat.
Titan Pro	16-00 5222	5222	Y	100	AVC,C5,Vi
Titan Pro	22-00 2P	VT2P	Y	100	AC,P2
Titan Pro	58-01 2P	VT2P	Y	101	AC,P2
Titan Pro	92-99 2P	VT2P	Y	99	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

3220A	Agrisure® Artesian® Viptera® 3220 (Vip,CB,HX,LL,GT)
5122	Agrisure® Duracade™ 5122
5222	Agrisure® Duracade™ 5222
AM	Optimum® AcreMax®
AMXT	Optimum® AcreMax® Xtreme
QR	Qrome™
RR2	Roundup Ready® 2 Corn
STX	SmartStax®
TRE	Genuity® Trecepta™
VT2P	Genuity® VT Double PRO®
VT2PDG	Genuity® VT Double PRO® DroughtGard®

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

Corn Seed Treatments*

NA	Not Available
AC250	Acceleron® 250
AC,P2	Acceleron® 250
AC,P2,MAG	Acceleron® 250, Federal ArmourGuard
AC,P2,SU	Acceleron® 250, StepUp
AC,P5	Acceleron® 500
AC,P5,B360	Acceleron® 500 with BioRise™ B-360 ST
AC,P5V	Acceleron® Poncho 500/Votivo
AC,P5V,B-360	Acceleron® Poncho 500/Votivo with B-360 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	Acceleron® Poncho 500/Votivo, StepUp
AVC,C2,Vi	Avicta® Complete 250, Vibrance®
AVC,C5	Avicta® Complete 500
AVC,C5,Vi	Avicta® Complete 500, Vibrance
CM,C2	CruiserMaxx® 250
CM,C2,Vi	CruiserMaxx® 250 with Vibrance
HC	Hefty Complete
Lum	LumiGEN™ (Corteva Agriscience)
Lum,P1V	LumiGEN™ Poncho 1250/Votivo
MQ	Maxim Quattro

* Seed treatments may include unspecified plant health promoting components.