

Test by: MNS Seed Testing, LLC New Richland, MN

2021 Corn Grain Top 30 Harvest Report

South Dakota Northeast [SDNE] WATERTOWN, SD
Myron Keltgen, Codington County, SD 57201

Early-Season Test	91 - 95 Day CRM B2021SDNE03a
Top 30 of 45	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybeans / Anthem, Outlook
SOIL DESCRIPTION:	Poinsettia-Buse-Waubay silty clay loam, well drained, non- irrigated
SOIL CONDITION:	Minimum W/O Fall Till, very low P, very high K, 7.7 pH, 3.7% OM, 21.9 CEC
PEST MANAGEMENT:	Force, S Metolachlor, Bellum, Stinger, Glyphosate
FERTILITY - Applied N:	175 Spring, Zinc
Applied N-P-K (units):	175-75-50
SEEDED - RATE - ROW:	May 11 32.0 /A 30" spacing
HARVESTED - STAND:	Oct 24 30.2 /A

TEST COMMENTS:

This was a well-drained plot location on higher ground, a had good conditions for planting on May 11. The best yields for each plot were found on the lowest ground. The plot had some stalk lodging. This area had below-average rainfall through July which contributed to each test having smaller stalks heights, grass, and lower yields in sections of each test. The rainfall in August was above normal, and yields in the surrounding field were above 200 bushel. Areas of high and low yield in the early-season test caused variability across replicates, and the test results were rejected.

Company/Brand	Product/Brand	Yield†	Mo	Test Bu/ha	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/acre	Rank
Frederick	4500 VTOP®	VTOP	95	214.8	15.5	2	31.5	1080	1
Nevo	6600 VTOP®	VTOP	95	211.5	15.7	1	30.8	1052	2
Liberty	LN 4500 VTOP®	VTOP	95	209.4	15.5	2	30.5	1044	3
Nevo	6200 VTOP®	VTOP	95	208.7	15.4	3	31.4	1031	4
Liberty	LN 4500 VTOP®	VTOP	95	208.3	15.5	2	30.5	1028	5
Nevo	6200 VTOP®	VTOP	95	207.7	15.4	1	30.5	1018	6
Nevo	6400 VTOP®	VTOP	95	207.2	15.4	1	30.5	1015	7
Nevo	6400 VTOP®	VTOP	95	206.5	15.3	1	30.5	1008	8
Nevo	6400 VTOP®	VTOP	95	206.2	15.3	1	30.5	1007	9
Nevo	6400 VTOP®	VTOP	95	205.7	15.3	1	30.5	1005	10
Nevo	6400 VTOP®	VTOP	95	205.3	15.3	1	30.5	1003	11
Nevo	6400 VTOP®	VTOP	95	205.2	15.3	1	30.5	1002	12
Nevo	6400 VTOP®	VTOP	95	205.1	15.3	1	30.5	1001	13
Nevo	6400 VTOP®	VTOP	95	204.8	15.3	2	31.4	990	14
Nevo	6400 VTOP®	VTOP	95	204.4	15.3	2	31.4	980	15
Nevo	6400 VTOP®	VTOP	95	203.8	15.3	2	31.4	978	16
Nevo	6400 VTOP®	VTOP	95	203.2	15.3	1	30.5	978	17
Nevo	6400 VTOP®	VTOP	95	202.9	15.4	2	31.4	970	18
Nevo	6400 VTOP®	VTOP	95	202.8	15.4	2	31.4	970	19
Nevo	6400 VTOP®	VTOP	95	202.8	15.4	2	31.4	970	20
Nevo	6400 VTOP®	VTOP	95	202.4	15.5	1	30.5	968	21
Nevo	6400 VTOP®	VTOP	95	202.0	15.1	1	30.5	968	22
Nevo	6400 VTOP®	VTOP	95	201.4	15.5	2	30.5	964	23
Nevo	6400 VTOP®	VTOP	95	201.1	15.4	1	30.5	961	24
Nevo	6400 VTOP®	VTOP	95	201.1	15.2	2	30.5	960	25
Nevo	6400 VTOP®	VTOP	95	201.1	15.2	2	30.5	960	26
Nevo	6400 VTOP®	VTOP	95	201.1	15.2	2	30.5	960	27
Nevo	6400 VTOP®	VTOP	95	201.1	15.2	2	30.5	960	28
Nevo	6400 VTOP®	VTOP	95	201.1	15.2	2	30.5	960	29
Nevo	6400 VTOP®	VTOP	95	201.1	15.2	2	30.5	960	30

REJECTED



Mark Tollefson

mark.tollefson@firstseedtests.com, (507) 456-2357

Averages = 179.7 15.4 4 30.2 896

LSD (0.10) = ns ns 5

LSD (0.25) = ns ns 2

C.V. = 16.2

Historic yield: 212.07 bu/a, 10 yr(s)

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.2 Drying = \$0.035 Prices: GMO = \$5.00

Report Date: 10/25/2021

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

South Dakota Northeast [SDNE] WATERTOWN, SD
Myron Keltgen, Codington County, SD 57201

Full-Season Test	96 - 100 Day CRM B2021SDNE03b
Top 30 of 63	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybeans / Anthem, Outlook
SOIL DESCRIPTION:	Poinsettia-Buse-Waubay silty clay loam, well drained, non- irrigated
SOIL CONDITION:	Minimum W/O Fall Till, very low P, very high K, 7.7 pH, 3.7% OM, 21.9 CEC
PEST MANAGEMENT:	Force, S Metolachlor, Bellum, Stinger, Glyphosate
FERTILITY - Applied N:	175 Spring, Zinc
Applied N-P-K (units):	175-75-50
SEEDED - RATE - ROW:	May 11 32.0 /A 30" spacing
HARVESTED - STAND:	Oct 24 29.6 /A

TEST COMMENTS:

This was a well-drained plot location on higher ground, a had good conditions for planting on May 11. The best yields for each plot were found on the lowest ground. The plot had some stalk lodging. This area had below-average rainfall through July which contributed to each test having smaller stalks heights, grass, and lower yields in sections of each test. The rainfall in August was above normal, and yields in the surrounding field were above 200 bushel. Areas of high and low yield in the early-season test caused variability across replicates, and the test results were rejected.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Proseed	1996 VT2PRIB	VT2P	96	220.5	16.6	1	30.5	1090	1
Dairyland	DS-3959Q	QR	99	218.4	16.8	3	29.5	1078	2
Latham	LH 5025 VT2PDG RIB	VT2PDG	100	215.3	16.8	2	29.0	1063	3
Federal	5000 VT2PRIB	VT2P	100	215.1	16.7	3	30.0	1063	4
Thunder	T6100 VT2P	VT2P	100	211.2	16.4	5	30.0	1045	5
REA	5B994	VT2P	99	209.3	16.8	5	30.5	1033	6
Hefty	H4933 RIB	VT2PDG	99	208.8	16.8	2	29.5	1031	7
Renk	RK561DGVT2PRIB	VT2PDG	95	207.2	16.3	2	28.5	1027	8
Pioneer	P0075Q GC	QR	100	205.5	17.2	6	30.0	1011	10
Thunder	T6996 VT2P	VT2P	96	203.7	16.5	3	29.0	1008	11
Dairyland	DS-3715AM	AM	97	203.6	16.4	5	29.5	1008	12
Renk	RK590VT2P	VT2P	98	202.5	16.1	6	30.0	1004	13
Renk	RK600VT2P	VT2P	100	202.4	16.7	10	30.0	1000	15
Hefty	H4942 RIB	VT2P	99	202.3	16.1	12	30.0	1004	14
Latham	LH 4957 VT2P RIB	VT2P	99	201.0	16.6	6	29.5	994	16
Channel	199-29 STXRIB GC	STX	99	200.7	16.8	1	30.5	991	17
Renk	RK579DGVT2P	VT2PDG	99	199.6	16.8	2	30.0	985	19
Golden Harvest	G96R61-5222 EZR	5222	96	198.3	17.0	4	29.5	978	20
REA	5B984	VT2P	98	197.7	15.4	4	29.0	986	18
NK Brand	NK9653-5222 EZR	5222	96	197.6	16.8	4	30.0	976	21
REA	4B965	VT2P	97	197.1	16.5	3	29.5	975	22
Titan Pro	22-00 2P	VT2P	100	194.7	16.7	2	30.5	962	24
Federal	4990 VT2PRIB	VT2P	99	194.2	16.7	17	29.0	960	27
Heine	6575VT2PRO	VT2P	99	194.2	16.1	4	29.0	964	23
Thunder	T6298 VT2P	VT2P	98	193.9	16.3	14	29.5	961	25
Golden Harvest	G99E68-5122 EZR	5122	99	193.8	17.2	2	30.0	954	30
Latham	LH 4657 VT2P RIB	VT2P	96	193.5	16.0	3	29.5	961	26
Federal	4880 VT2PRIB	VT2P	98	193.4	16.4	3	30.0	958	28
Titan Pro	11-98 2P	VT2P	98	193.2	16.1	5	30.5	958	29
Dairyland	DS-3727AM	AM	97	193.0	16.6	15	29.5	954	31
DeKalb	DKC47-54RIB CK	STX	97	208.0	17.0	3	29.1	1026	9
				Averages =	190.2	16.5	7	29.6	939
				LSD (0.10) =	23.0	0.6	6		
				LSD (0.25) =	12.1	0.3	3		
				C.V. =	11.5				
				Historic yield: 212.07 bu/a, 10 yr(s)					




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Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.2 Drying = \$0.035 Prices: GMO = \$5.00

Report Date: 10/25/2021

† 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

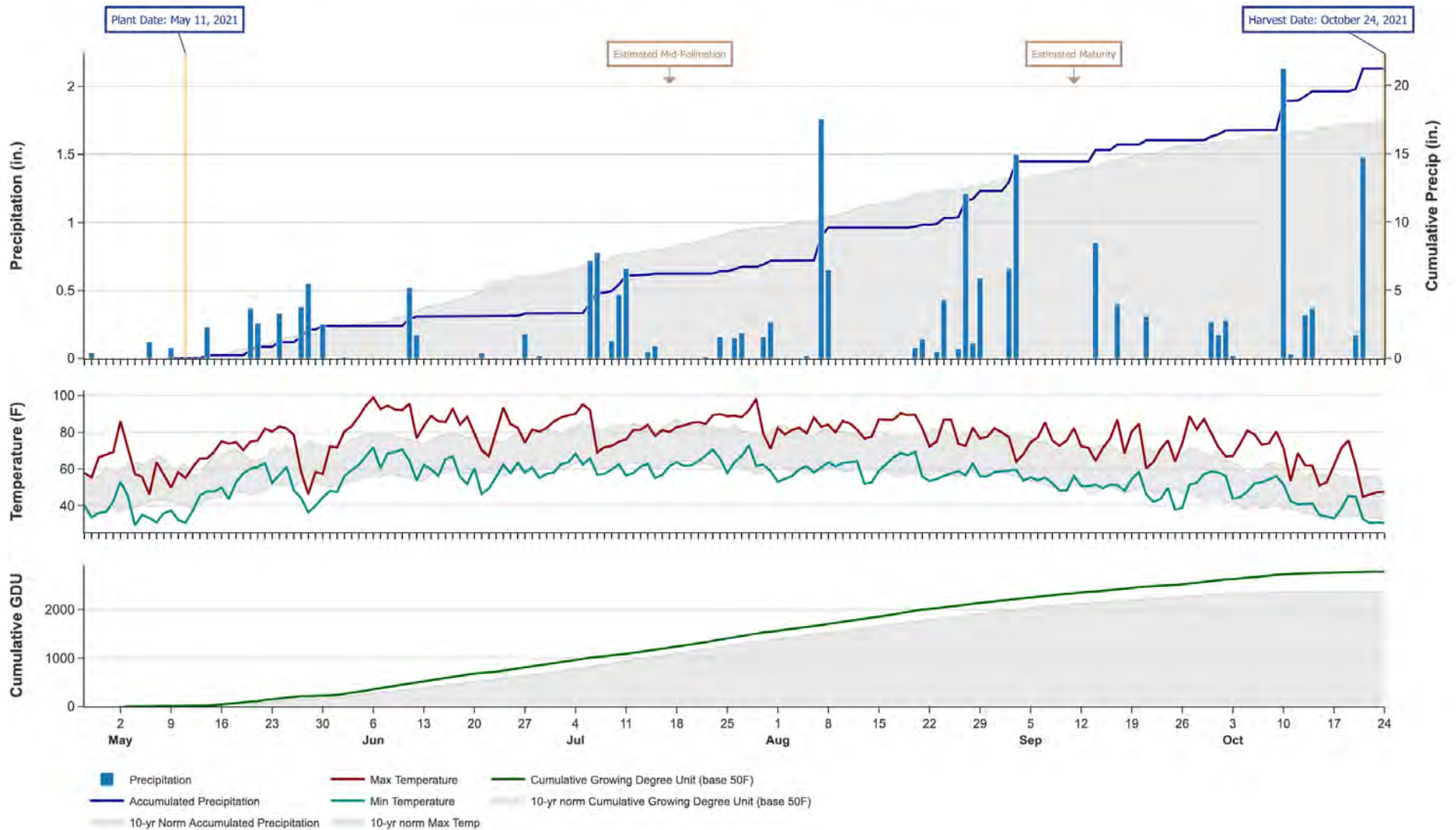
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2021 Corn - South Dakota Northeast [SDNE]

Weather Conditions Summary at WATERTOWN, SD

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	0.0 0.4 (-0.4)	2.6 3.1 (-0.5)	0.9 4.0 (-3.1)	3.8 3.5 (+0.3)	5.1 3.4 (+1.7)	4.0 2.8 (+1.2)	5.0 1.6 (+3.3)	21.5 18.8 (+2.6)
GDU Normal (Diff)	17 0 (+17)	266 241 (+24)	632 509 (+122)	683 681 (+1)	634 586 (+47)	420 353 (+66)	185 47 (+137)	2837 2419 (+417)



* 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 - South Dakota Northeast [SDNE]

Early-Season Test Products (45 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Dairyland	DS-3162Q	QR	Y	91	Lum,P1V
Dairyland	DS-3193AM	AM	Y	91	Lum,P1V
Dairyland	DS-3366AM	AM	Y	93	Lum,P1V
Dairyland	DS-3550AM	AM	Y	95	Lum,P1V
DeKalb	DKC47-54RIB CK	STX	Y	97	AC,P5V,EDC-EL
Federal	4185 VT2PRIB	VT2P	Y	91	AC,P2,MAG
Federal	4220 VT2PRIB	VT2P	Y	92	AC,P2,MAG
Federal	4300 VT2PRIB	VT2P	Y	93	AC,P2,MAG
Federal	4520 VT2PDG	VT2PDG	N	95	AC,P5V,MAG
Federal	4580 VT2PRIB	VT2P	Y	95	AC,P2,MAG
Golden Harvest	G91V51-5222A EZR	5222A	Y	91	AVC,C2,Vi
Hefty	H4032	VT2P	N	90	HC
Hefty	H4132	VT2P	N	91	HC
Hefty	H4322 RIB	VT2P	Y	93	HC
Hefty	H4332 RIB	VT2P	Y	93	HC
Heine	6200VT2PRIB	VT2P	Y	95	AC250
Heine	6215VT2PRO	VT2P	N	95	AC,P5
Heine	6230VT2PRIB	VT2P	Y	95	AC250
Heine	6330DGVT2PRO	VT2PDG	N	95	AC,P5V,EDC-B
Heine	6450VT2PRO	VT2P	N	95	AC,P5
Integra	4041 VT2PRIB	VT2P	Y	90	AC,P5,SU
Integra	4119 VT2PRIB	VT2P	Y	91	AC,P2,SU
Integra	4311 VT2PRIB	VT2P	Y	93	AC,P5V,SU
Integra	4509 VT2PRIB	VT2P	Y	95	AC,P2,SU
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
NK Brand	NK9175-5222A EZR	5222A	Y	91	CM,C2,Vi
Proseed	1794 VT2PRIB	VT2P	Y	94	AVC,C2,Vi
REA	3B912	VT2P	Y	91	AC,P5,B360
REA	4B933	VT2P	Y	93	AC,P5,B360
REA	4B944	VT2P	Y	94	AC,P5,B360
REA	4B958	VT2P	Y	95	AC,P5,B360
Renk	RK429-3220A	3220A	N	93	CM,C2
Renk	RK485DGVT2P	VT2PDG	N	94	AC,P5V
Rob-See-Co	RC4166-3110A	3110A	N	91	AVC,C2,Vi
Rob-See-Co	RC4427-3220	3220	Y	94	CM,C2,Vi
Rob-See-Co	RC4535-3110	3110	N	95	CM,C2,Vi
Thunder	T6294 VT2P	VT2P	Y	94	AC,P5,B360
Thunder	T6595 VT2P	VT2P	Y	95	AC,P2
Thunder	T6791 VT2P	VT2P	Y	91	AC,P2

Company/Brand	Brand/Product	Technology	RIB	RM	Seed Treat.
Thunder	T6992 VT2P	VT2P	Y	92	AC,P2
Thunder	T6993 VT2P	VT2P	Y	93	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.

2021 Corn - South Dakota Northeast [SDNE]

Full-Season Test Products (63 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Channel	199-29 STXRIB GC	STX	Y	99	AC,P5
Dairyland	DS-3715AM	AM	Y	97	Lum,P1V
Dairyland	DS-3727AM	AM	Y	97	Lum,P1V
Dairyland	DS-3959Q	QR	Y	99	Lum,P1V
Dairyland	DS-4000AMXT	AMXT	Y*	100	Lum,P1V
Dairyland	DS-4014Q	QR	Y	100	Lum,P1V
DeKalb	DKC47-54RIB CK	STX	Y	97	AC,P5V,EDC-EL
DeKalb	DKC48-95RIB GC	VT2P	Y	98	AC,P5V,EDC-EL
Dyna-Gro	D38VC80	VT2P	N	98	AC,P5V
Dyna-Gro	D40VC41	VT2P	N	100	AC,P5V
Enestvedt	E600DP RIB	VT2P	Y	99	AC250
Enestvedt	E658DP RIB	VT2P	Y	96	AC250
Enestvedt	E699DP RIB	VT2P	Y	99	AC250
Federal	4820 VT2P	VT2P	N	98	AC,P5V,MAG
Federal	4880 VT2PRIB	VT2P	Y	98	AC,P2,MAG
Federal	4990 VT2PRIB	VT2P	Y	99	AC,P2,MAG
Federal	4999 VT2PRIB	VT2P	Y	99	AC,P2,MAG
Federal	5000 VT2PRIB	VT2P	Y	100	AC,P2,MAG
Golden Harvest	G00H12-5122 EZR	5122	Y	100	AVC,C2,Vi
Golden Harvest	G96R61-5222 EZR	5222	Y	96	AVC,C2,Vi
Golden Harvest	G98M44-5122 EZR	5122	Y	98	AVC,C2,Vi
Golden Harvest	G99E68-5122 EZR	5122	Y	99	AVC,C2,Vi
Hefty	H4653 RIB	VT2PDG	Y	96	HC
Hefty	H4842 RIB	VT2P	Y	98	HC
Hefty	H4933 RIB	VT2PDG	Y	99	HC
Hefty	H4942 RIB	VT2P	Y	99	HC
Hefty	H5055	TRE	N	100	HC
Heine	6500VT2PRO	VT2P	N	98	AC250
Heine	6575VT2PRO	VT2P	N	99	AC,P5V,EDC-B
Heine	6600VT2PRO	VT2P	N	99	AC,P5
Heine	6650TRE	TRE	N	99	AC,P5
Heine	7010VT2PRO	VT2P	N	100	CM,C2
Innotech	IC4660-5222	5222	Y	96	AVC,C2,Vi
Innotech	IC4881-5122-EZ	5122	Y	98	AVC,C2,Vi
Integra	4702 VT2PRIB	VT2P	Y	97	AC,P5V,EDC-B
Integra	5052 VT2PRIB	VT2P	Y	100	AC,P5V,EDC-B
Latham	LH 4657 VT2P RIB	VT2P	Y	96	AC,P2
Latham	LH 4937 VT2P RIB	VT2P	Y	99	AC,P2
Latham	LH 4957 VT2P RIB	VT2P	Y	99	AC,P5V,EDC-B
Latham	LH 5025 VT2PDG RIB	VT2PDG	Y	100	AC,P2
Latham	LH 5047 VT2P RIB	VT2P	Y	100	AC,P2
NK Brand	NK9653-5222 EZR	5222	Y	96	AVC,C2,Vi

Company/Brand	Brand/Product	Technology	RIB	RM	Seed Treat.
NK Brand	NK9930-5122 EZR	5122	Y	99	AVC,C2,Vi
NK Brand	NK9991-5122 EZR	5122	Y	99	AVC,C2,Vi
Pioneer	P0075Q GC	QR	Y	100	Lum
Proseed	1996 VT2PRIB	VT2P	Y	96	AVC,C2,Vi
REA	4B965	VT2P	Y	97	AC,P2,B360
REA	4B976	VT2P	Y	97	AC,P5,B360
REA	5B984	VT2P	Y	98	AC,P5,B360
REA	5B994	VT2P	Y	99	AC,P5,B360
Renk	RK561DGV2PRIB	VT2PDG	Y	95	AC,P2
Renk	RK579DGV2P	VT2PDG	Y	99	AC,P2
Renk	RK590VT2P	VT2P	N	98	AC,P5V
Renk	RK593VT2PRIB	VT2P	Y	97	AC,P2
Renk	RK600VT2P	VT2P	N	100	AC,P2
Thunder	T6100 VT2P	VT2P	Y	100	AC,P2
Thunder	T6298 VT2P	VT2P	Y	98	AC,P5,B360
Thunder	T6996 VT2P	VT2P	Y	96	AC,P2
Thunder	T6999 VT2P	VT2P	Y	99	AC,P2
Thunder	T8100 SS	STX	Y	100	AC,P5
Titan Pro	11-98 2P	VT2P	Y	98	AC,P5
Titan Pro	16-00 5222	5222	Y	100	AVC,C2,Vi
Titan Pro	22-00 2P	VT2P	Y	100	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)
3220	Agrisure® Viptera® 3220 (Vip,CB,HX,LL,GT)
3220A	Agrisure® Artesian® Viptera® 3220 (Vip,CB,HX,LL,GT)
5122	Agrisure® Duracade™ 5122
5222	Agrisure® Duracade™ 5222
5222A	Agrisure® Duracade™ Artesian® 5222
AM	Optimum® AcreMax®
AMXT	Optimum® AcreMax® Xtreme
QR	Qrome™
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,B360	Acceleron® 250 with BioRise™ B-360 ST
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,P5,SU	Acceleron® 500, StepUp
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,MAG	Acceleron® Poncho 500/Votivo, Federal ArmourGuard
AC,P5V,SU	Acceleron® Poncho 500/Votivo, StepUp
AVC,C2,Vi	Avicta® Complete 250, 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

* Seed treatments may include unspecified plant health promoting components.