

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

2021 Corn Grain Top 30 Harvest Report

South Dakota Southeast [SDSE] BERESFORD, SD
Jason Frick, Lincoln County, SD 57004

Early-Season Test	98 - 102 Day CRM B2021SDSE07a
Top 30 of 60	For Gross Income (Sorted by Yield) Average of (4) Replications
PREV. CROP/HERB:	Soybeans / Round-Up, Flexstar, Cobra
SOIL DESCRIPTION:	Egan-Ethan-Tetonka silty clay loam, well drained, non-irrigated
SOIL CONDITION:	Minimum W/ Fall Till, very high P, medium K, 5.3 pH, 4.4% OM, 22.3 CEC
PEST MANAGEMENT:	Resicore, Force
FERTILITY - Applied N:	160 Spring, 10 units sulfur
Applied N-P-K (units):	160-80-80
SEDED - RATE - ROW:	May 1 32.0 /A 30" spacing
HARVESTED - STAND:	Oct 31 29.3 /A

TEST COMMENTS:

In June, we had a good stand but the drought was starting to take its toll on the plots. The leaves were starting to curl and the height was uneven. Shortly after the plot was sprayed in June, the herbicide used was found to be not as effective because of the drought causing more weed pressure come harvest. Due to the lighter soil, the drought hurt yield potential and stalk quality. At harvest, stalk lodging was present and grain moistures were below 15 percent.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Latham	LH 5245 VT2P RIB ↗	VT2P	102	199.9	14.3	5	30.1	1000	1
Thunder	T6902 VT2P ↗	VT2P	102	197.7	14.5	1	29.4	988	2
Integra	5052 VT2PRIB ↗	VT2P	100	197.6	14.5	2	29.0	988	3
Wyffels	W2506RIB ↗	VT2P	101	197.3	14.2	4	29.4	986	4
Heine	7320PC ↗	PC	102	196.7	14.5	3	29.8	984	5
Rob-See-Co	RC5142-3110 ↗	3110	101	194.9	14.4	3	29.1	974	6
REA	5A013 ↗	STX	101	193.7	14.5	5	30.1	968	7
Innotech	IC5267-3120-EZ ↗	3120	102	188.4	14.2	7	30.1	942	8
Latham	LH 5025 VT2PDG RIB ↗	VT2PDG	100	182.4	14.4	7	29.0	912	9
Golden Harvest	G02K39-3120 EZR ↗	3120	102	181.7	14.2	6	25.8	908	10
Viking	46-02 ↗	CONV	102	181.2	14.3	3	29.8	906	11
Thunder	T6999 VT2P ↗	VT2P	99	181.1	14.6	4	28.7	906	12
Rob-See-Co	RC4817-CONV ↗	CONV	98	179.2	14.4	5	29.8	896	13
Integra	5280 VT2PRIB ↗	VT2P	102	178.0	14.4	4	29.8	890	14
Enestvedt	E600DP RIB ↗	VT2P	99	177.6	14.2	3	29.4	888	15
Wyffels	W2648 ↗	STX	101	177.5	14.5	3	29.8	887	16
Innotech	IC4881-5122-EZ ↗	5122	98	176.9	14.5	3	29.0	884	17
REA	5B012 ↗	VT2P	101	176.8	14.4	3	28.3	884	18
Hefty	H4933 RIB ↗	VT2PDG	99	176.2	14.3	3	29.8	881	19
Hefty	H4842 RIB ↗	VT2P	98	176.1	14.3	6	29.0	880	20
Heine	6650TRE ↗	TRE	99	175.7	14.5	17	29.0	878	21
Heine	7275TRE ↗	TRE	102	175.5	14.4	3	29.0	878	22
Renk	RK579DGV2P ↗	VT2PDG	99	175.4	14.5	5	30.5	877	23
Heine	6575VT2PRO ↗	VT2P	99	173.7	14.3	5	29.8	868	24
Dairyland	DS-4014Q ↗	QR	100	171.1	14.3	9	29.4	856	25
Renk	RK600VT2P ↗	VT2P	100	170.5	14.5	3	29.0	852	26
Titan Pro	84-01 ↗	CONV	101	170.2	14.3	3	30.1	851	27
Hefty	H4942 RIB ↗	VT2P	99	169.7	14.1	6	29.4	848	28
Wyffels	W2016 ↗	VT2P	98	168.9	14.2	8	29.8	844	29
Dairyland	DS-3959Q ↗	QR	99	168.5	14.6	6	29.4	842	30
REA	5B994 CK	VT2P	99	158.9	14.2	5	29.4	794	45

Mark Tollefson

Mark Tollefson

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Averages = **168.9** **14.3** **5** **29.3** **844**

LSD (0.10) = 19.1 0.2 5

LSD (0.25) = 10.1 0.1 3

C.V. = 12.5

Historic yield: 165.87 bu/a, 16 yr(s)

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

Report Date: 11/02/2021

† 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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South Dakota Southeast [SDSE] BERESFORD, SD
Jason Frick, Lincoln County, SD 57004

Full-Season Test	103 - 107 Day CRM B2021SDSE07b
Top 30 of 60	For Gross Income (Sorted by Yield) Average of (4) Replications
PREV. CROP/HERB:	Soybeans / Round-Up, Flexstar, Cobra
SOIL DESCRIPTION:	Egan-Ethan-Tetonka silty clay loam, well drained, non-irrigated
SOIL CONDITION:	Minimum W/ Fall Till, very high P, medium K, 5.3 pH, 4.4% OM, 22.3 CEC
PEST MANAGEMENT:	Resicore, Force
FERTILITY - Applied N:	160 Spring, 10 units sulfur
Applied N-P-K (units):	160-80-80
SEDED - RATE - ROW:	May 1 32.0 /A 30" spacing
HARVESTED - STAND:	Oct 31 31.0 /A

TEST COMMENTS:

In June, we had a good stand but the drought was starting to take its toll on the plots. The leaves were starting to curl and the height was uneven. Shortly after the plot was sprayed in June, the herbicide used was found to be not as effective because of the drought causing more weed pressure come harvest. Due to the lighter soil, the drought hurt yield potential and stalk quality. At harvest, stalk lodging was present and grain moistures were below 15 percent.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Renk	RK625DGVT2P ↗	VT2PDG	104	220.1	14.4	3	31.4	1100	1
Thunder	T6004 VT2P ↗	VT2P	104	208.6	14.6	2	30.5	1043	2
Heine	7570STX ↗	STX	105	206.6	14.5	4	31.9	1033	3
Rob-See-Co	RC5460-3000GT ↗	3000GT	104	206.0	14.5	23	31.6	1030	4
Titan Pro	24-04 ↗	CONV	104	198.3	14.3	10	31.9	992	5
Viking	51-04 ↗	CONV	104	195.1	14.4	8	30.1	976	6
Dairyland	DS-4310AM ↗	AM	103	194.1	14.5	3	31.2	970	7
Enestvedt	E539 ↗	CONV	103	193.9	14.5	6	31.6	970	8
Miller Hybrids	RX03-47 ↗	CONV	103	192.9	14.6	3	31.2	964	9
Heine	7730VT2PRO ↗	VT2P	107	192.3	14.2	3	31.4	962	10
NK Brand	NK0624-5222 EZR ↗	5222	106	191.7	14.9	2	30.5	958	11
Innotech	IC5480-3111A ↗	3111A	104	191.6	14.2	3	29.7	958	12
REA	6B043 ↗	VT2P	104	189.1	14.4	7	29.8	946	13
DenBesten	DB38-06 ↗	CONV	106	188.8	14.4	6	31.9	944	14
Dairyland	DS-4440AM ↗	AM	104	187.9	14.9	14	31.9	940	15
Miller Hybrids	M09-01 ↗	CONV	108	187.2	14.8	14	31.2	936	16
Golden Harvest	G03R40-5222 EZR ↗	5222	103	186.6	14.8	3	31.6	933	17
Hefty	H5432 RIB ↗	VT2P	104	185.7	14.4	6	31.6	928	18
Hi Fidelity Genetics	HFG1051 ↗	CONV	105	185.3	14.3	11	31.2	926	19
Hefty	H5655 ↗	TRE	106	184.9	14.3	10	31.6	924	20
Latham	LH 5517 VT2P RIB ↗	VT2P	105	183.8	14.6	9	30.5	919	21
Renk	RK710DGVT2P ↗	VT2PDG	107	182.3	14.5	10	30.5	912	22
NK Brand	NK0314-5122 EZR ↗	5122	103	182.1	14.8	8	31.9	910	23
Rob-See-Co	RC5510-3220 ↗	3220	105	180.4	14.5	6	31.2	902	24
NK Brand	NK0748-5122 EZR ↗	5122	107	180.4	14.6	3	30.5	902	25
Wyffels	W5086RIB ↗	VT2P	107	180.3	14.4	6	31.9	901	26
Hefty	H5212 RIB ↗	VT2P	102	178.6	14.4	4	31.2	893	28
Viking	84-05 ↗	CONV	105	178.6	14.5	3	31.6	893	29
Rob-See-Co	RC5323-3110 ↗	3110	103	177.7	14.5	5	29.8	888	30
Thunder	T6204 VT2P ↗	VT2P	104	176.8	14.2	8	31.2	884	31
REA	5B994 CK	VT2P	99	179.3	14.3	4	31.6	896	27

Averages = **177.1** **14.4** **8** **31.0** **885**

LSD (0.10) = 18.3 0.3 ns

LSD (0.25) = 9.6 0.1 ns

C.V. = 11.4 Historic yield: 165.87 bu/a, 16 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: 11/02/2021

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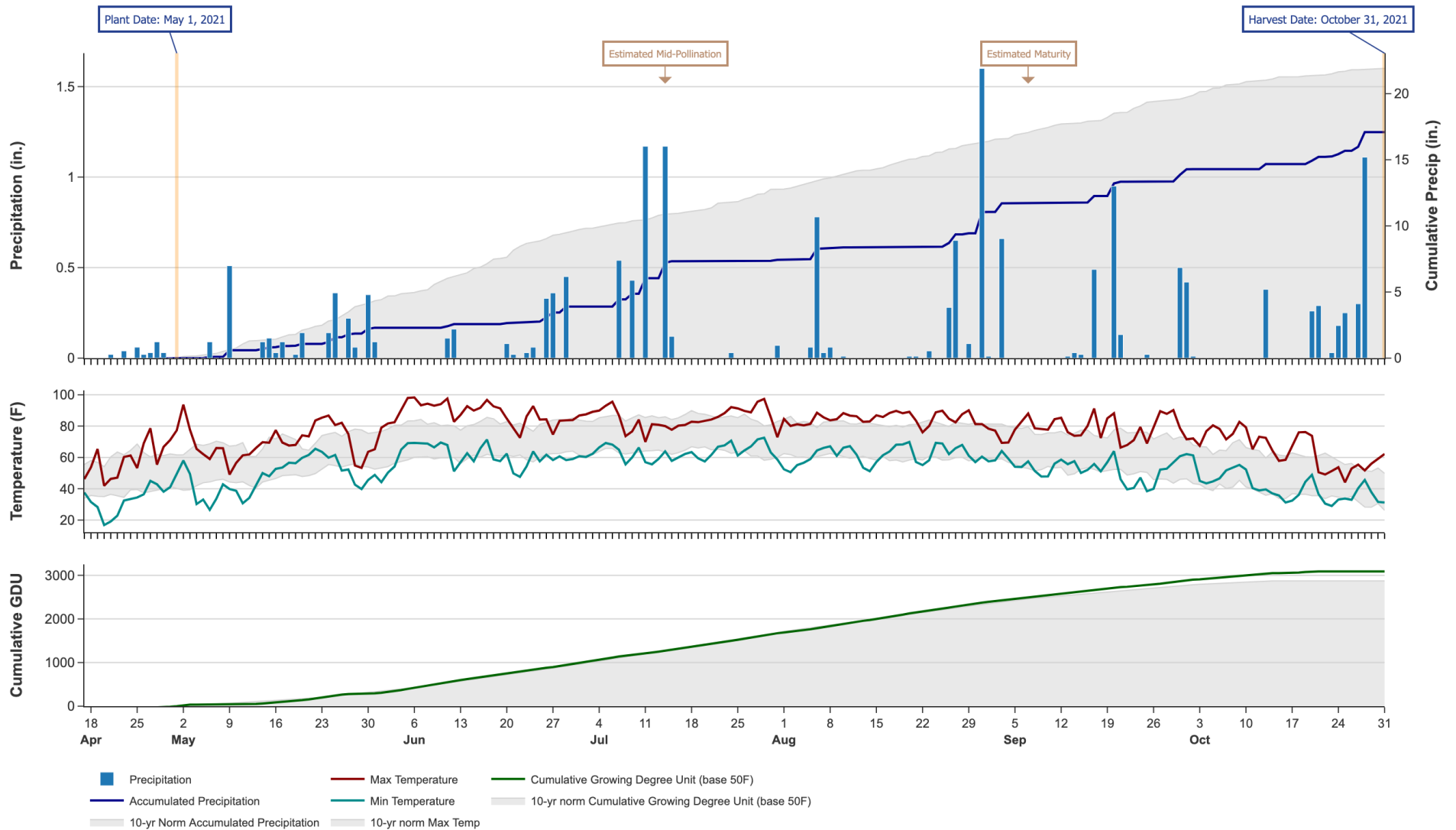
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2021 Corn - South Dakota Southeast [SDSE]

Weather Conditions Summary at BERESFORD, SD

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	0.3 1.5 (-1.2)	2.3 4.7 (-2.4)	1.6 5.3 (-3.7)	3.5 3.2 (+0.3)	3.6 3.5 (+0.1)	2.8 3.3 (-0.5)	3.2 2.3 (+0.9)	17.4 23.8 (-6.4)
GDU Normal (Diff)	43 40 (+2)	308 328 (-20)	668 619 (+48)	710 745 (-35)	702 644 (+57)	492 433 (+58)	221 107 (+113)	3144 2919 (+224)



* 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 Southeast [SDSE]

Early-Season Test Products (60 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
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
DenBesten	DB32-00	CONV	N	100	Treated
Dyna-Gro	D40VC41	VT2P	N	100	AC,P5V
Dyna-Gro	D43VC81	VT2P	N	102	AC,P5V
Enestvedt	E600DP RIB	VT2P	Y	99	AC250
Golden Harvest	G02K39-3120 EZR	3120	Y	102	AVC,C2,Vi
Golden Harvest	G99E68-5122 EZR	5122	Y	99	AVC,C2,Vi
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
Hefty	H5132 RIB	VT2P	Y	101	HC
Heine	6575VT2PRO	VT2P	N	99	AC,P5V,EDC-B
Heine	6650TRE	TRE	N	99	AC,P5
Heine	7010VT2PRIB	VT2P	Y	100	CM,C2
Heine	7275TRE	TRE	N	102	AC,P5V,EDC-B
Heine	7320PC	PC	N	102	CM,C5
Hi Fidelity Genetics	HFG1002	CONV	N	100	AC250
Innotech	IC4881-5122-EZ	5122	Y	98	AVC,C2,Vi
Innotech	IC4952-3010	3010	N	99	AVC,C2,Vi
Innotech	IC5267-3120-EZ	3120	Y	102	AVC,C2,Vi
Integra	4702 VT2PRIB	VT2P	Y	97	AC,P5V,EDC-B
Integra	5052 VT2PRIB	VT2P	Y	100	AC,P5V,EDC-B
Integra	5280 VT2PRIB	VT2P	Y	102	AC,P2,SU
Latham	LH 4957 VT2P RIB	VT2P	Y	99	AC,P5V,EDC-B
Latham	LH 5025 VT2PDG RIB	VT2PDG	Y	100	AC,P2
Latham	LH 5159 SS RIB	STX	Y	101	AC,P5
Latham	LH 5209 5222-EZ	5222	Y	102	AVC,C5
Latham	LH 5245 VT2P RIB	VT2P	Y	102	AC,P2
Miller Hybrids	M98-70	CONV	N	98	MSC,FL,V-34
Miller Hybrids	RX97-40	CONV	N	97	MSC
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
REA	5A013	STX	Y	101	AC,P5,B360
REA	5B012	VT2P	Y	101	AC,P5,B360
REA	5B984	VT2P	Y	98	AC,P5,B360
REA	5B994 CK	VT2P	Y	99	AC,P5,B360
Renk	RK579DGV2P	VT2PDG	Y	99	AC,P2

Company/Brand	Brand/Product	Technology	RIB	RM	Seed Treat.
Renk	RK590VT2P	VT2P	N	98	AC,P5V
Renk	RK600VT2P	VT2P	N	100	AC,P2
Rob-See-Co	RC4817-CONV	CONV	N	98	Treated
Rob-See-Co	RC5142-3110	3110	N	101	CM,C2,Vi
Thunder	T6100 VT2P	VT2P	Y	100	AC,P2
Thunder	T6298 VT2P	VT2P	Y	98	AC,P5,B360
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
Titan Pro	84-01	CONV	N	101	AC,P2
Titan Pro	92-99 2P	VT2P	Y	99	AC,P2
Viking	44-98	CONV	N	98	CM,C2,Sb
Viking	46-02	CONV	N	102	CM,C2,Sb
Viking	52-00	CONV	N	100	CM,C2,Sb
Wyffels	W2016	VT2P	N	98	AC,P2
Wyffels	W2236RIB	VT2P	Y	99	AC,P2
Wyffels	W2506RIB	VT2P	Y	101	AC,P2
Wyffels	W2648	STX	N	101	AC,P5V

* 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 Southeast [SDSE]

Full-Season Test Products (60 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Dairyland	DS-4310AM	AM	Y	103	Lum,P1V
Dairyland	DS-4440AM	AM	Y	104	Lum,P5V
DenBesten	DB32-02	CONV	N	102	Treated
DenBesten	DB38-06	CONV	N	106	Treated
Enestvedt	E539	CONV	N	103	CM,C2,Vi
Enestvedt	E598	CONV	N	106	AC250
Epley	E1530	CONV	N	105	Treated
Federal	5445 RR2	RR2	N	104	AC,P2,MAG
Federal	5610 PCE	PC,E	N	106	AC,P5V,MAG
Golden Harvest	G03R40-5222 EZR	5222	Y	103	AVC,C2,Vi
Golden Harvest	G05K08-5122A EZR	5122A	Y	105	AVC,C2,Vi
Golden Harvest	G07G73-5122 EZR	5122	Y	107	AVC,C2,Vi
Hefty	H5212 RIB	VT2P	Y	102	HC
Hefty	H5432 RIB	VT2P	Y	104	HC
Hefty	H5442 RIB	VT2P	Y	104	HC
Hefty	H5444	STX	N	104	HC
Hefty	H5655	TRE	N	106	HC
Heine	7450VT2PRO	VT2P	Y	104	AC250
Heine	7520STX	STX	N	105	AC,P5
Heine	7570STX	STX	N	105	AC,P5V,EDC-B
Heine	7650VT2PRO	VT2P	N	106	AC,P5
Heine	7730VT2PRO	VT2P	N	107	AC,P5V,EDC-B
Hi Fidelity Genetics	HFG1051	CONV	N	105	CM,C2
Hi Fidelity Genetics	HFG1071	CONV	N	105	C2
Innotech	IC5480-3111A	3111A	N	104	AVC,C2,Vi
Integra	5529 VT2PRIB	VT2P	Y	105	AC,P2,SU
Integra	5682 VT2PRIB	VT2P	Y	106	AC,P5V,EDC-B
Integra	5719 VT2PRIB	VT2P	Y	107	AC,P2,SU
Latham	LH 5377 VT2P RIB	VT2P	Y	103	AC,P2
Latham	LH 5487 VT2P RIB	VT2P	Y	104	AC,P2
Latham	LH 5517 VT2P RIB	VT2P	Y	105	AC,P2
Latham	LH 5646 PCE	PC,E	N	106	CM,C2,Vi
Miller Hybrids	M06-62	CONV	N	105	MSC
Miller Hybrids	M09-01	CONV	N	108	MSC
Miller Hybrids	RX03-47	CONV	N	103	MSC
NK Brand	NK0314-5122 EZR	5122	Y	103	AVC,C2,Vi
NK Brand	NK0624-5222 EZR	5222	Y	106	AVC,C2,Vi
NK Brand	NK0748-5122 EZR	5122	Y	107	AVC,C2,Vi
Pioneer	P0421Q GC	QR	Y	104	Lum
REA	5B994 CK	VT2P	Y	99	AC,P5,B360
REA	6A055	STX	Y	105	AC,P5,B360
REA	6B043	VT2P	Y	104	AC,P5,B360

Company/Brand	Brand/Product	Technology	RIB	RM	Seed Treat.
REA	6D054	VT2PDG	Y	105	AC,P5,B360
Renk	RK625DGVT2P	VT2PDG	N	104	AC,P5V
Renk	RK642VT2P	VT2P	Y	103	AC,P2
Renk	RK710DGVT2P	VT2PDG	Y	107	AC,P2
Rob-See-Co	RC5323-3110	3110	N	103	CM,C2,Vi
Rob-See-Co	RC5460-3000GT	3000GT	N	104	CM,C2,Vi
Rob-See-Co	RC5510-3220	3220	Y	105	CM,C2,Vi
Thunder	T6004 VT2P	VT2P	Y	104	AC,P2
Thunder	T6107 VT2P	VT2P	Y	107	AC,P2
Thunder	T6204 VT2P	VT2P	Y	104	AC,P5,B360
Titan Pro	24-04	CONV	N	104	AC,P2
Viking	51-04	CONV	N	104	CM,C2,Sb
Viking	72-06	CONV	N	106	CM,C2,Sb
Viking	84-05	CONV	N	105	CM,C2,Sb
Wyffels	W4196RIB	VT2P	Y	105	AC,P2
Wyffels	W4246RIB	VT2P	Y	105	AC,P2
Wyffels	W4588	STX	N	105	P5V
Wyffels	W5086RIB	VT2P	Y	107	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

3000GT	Agrisure® 3000GT
3010	Agrisure® 3010
3110	Agrisure® Viptera® 3110 (Vip, CB,LL,GT)
3111A	Agrisure® Artesian® Viptera® 3111 (Vip,CB,RW,LL,GT)
3120	Agrisure® 3120 (CB,HX,LL,GT)
3220	Agrisure® Viptera® 3220 (Vip,CB,HX,LL,GT)
5122	Agrisure® Duracade™ 5122
5122A	Agrisure® Duracade™ Artesian® 5122
5222	Agrisure® Duracade™ 5222
AM	Optimum® AcreMax®
AMXT	Optimum® AcreMax® Xtreme
CONV	Conventional
E	Enlist™ (2,4-D, glyphosate, fop herbicide tolerance)
PC	PowerCore™
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,EDC-B	Acceleron® BASIC Poncho 500/Votivo with Enhanced Disease Control
AC,P5V,MAG	Acceleron® Poncho 500/Votivo, Federal ArmorGuard
AVC,C2,Vi	Avicta® Complete 250, Vibrance®
AVC,C5	Avicta® Complete 500
C2	Cruiser 250
CM,C2	CruiserMaxx® 250
CM,C2,Sb	CruiserMaxx® 250, SabrEx Innoculant
CM,C2,Vi	CruiserMaxx® 250 with Vibrance
CM,C5	Cruisermaxx® 500
HC	Hefty Complete
Lum	LumiGEN™ (Corteva Agriscience)
Lum,P1V	LumiGEN™ Poncho 1250/Votivo
Lum,P5V	LumiGEN™ Poncho 500/Votivo
MSC	Miller Hybrids ShieldCoat™ with Vertex
MSC,FL,V-34	Miller Hybrids ShieldCoat™ with Vertex, STartUP™ FLUDI, STartUP™ Vitavax-34
P5V	Poncho 500/Votivo
Treated	Treated seed, unspecified

* Seed treatments may include unspecified plant health promoting components.