

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

2023 Corn Grain Top 30 Harvest Report

South Dakota Southeast [SDSE] BURBANK, SD
Tom Hall, Union County, SD

Early-Season Test	98 - 102 Day CRM B2023SDSE07a
Top 30 of 56	For Gross Income (Sorted by Yield) Average of (4) Replications
PREV. CROP/HERB:	Soybeans / Liberty, Roundup
SOIL DESCRIPTION:	Trent-Tetonka-Wakonda Complex silt loam, mod. well drained, non-irrigated
SOIL CONDITION:	Minimum W/O Fall Till, low P, very high K, 7.8 pH, 3.8% OM, 22.9 CEC
PEST MANAGEMENT:	Atrazine, Impact, Resicore, Ams
FERTILITY - Applied N:	25 Spring, 75 Sidedress, 20 Foliar Rescue
Applied N-P-K (units):	120-40-40
SEEDED - RATE - ROW:	May 4 32.5 /A 30" spacing
HARVESTED - STAND:	Nov 4 28.2 /A

TEST COMMENTS:

A pre-emerge herbicide was not used and we had some weed pressure early. By mid-June the plot was a little uneven and we noted some regrowth of weeds after spraying the post-emerge herbicide. At harvest, there was more variability in yield in the early season test as a depression in the land seemed to have an uneven stand and grass pressure. The field around the plot was averaging around 230 bu/acre. Some minor goose-necked corn was noted at harvest. Stalk health was good with only minor stalk lodging. The corn moistures were low and we observed some butt shelling during harvest. There were better yields and plot conditions in the full-season test.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Jacobsen	JS5206DGV2P ↗	VT2PDG	102	246.8	13.8	1	28.0	1111	1
Renk	RK590VT2P ↗	VT2P	98	237.4	13.8	1	28.3	1068	2
Renk	RK582SSTX ↗	STX	98	236.8	13.9	1	28.3	1066	3
Viking Blue River	44-98 ↗	CONV	98	234.7	14.1	2	28.0	1056	4
Renk	RK579DGV2P ↗	VT2PDG	99	234.4	14.0	1	28.3	1055	5
Viking Blue River	24-01 ↗	CONV	101	233.0	13.9	1	28.3	1048	6
Heine	7480 ↗	VT2PDG	102	232.0	14.0	1	28.0	1044	7
Wyffels	W1996RIB ↗	VT2P	98	230.6	13.9	1	28.7	1038	8
Thunder	T6498 PC ↗	PCE	98	230.4	13.7	2	27.6	1037	9
Wyffels	W1988 ↗	STX	98	228.2	14.0	1	28.0	1027	10
Jacobsen	JS0223VT2P ↗	VT2P	102	226.6	13.9	2	28.3	1020	11
Wyffels	W1826 ↗	VT2P	97	225.5	13.7	1	27.6	1015	12
Renk	RK628VT2P ↗	VT2P	102	224.5	14.2	1	27.6	1010	13
Thunder	T6999 VT2P ↗	VT2P	99	223.7	14.1	1	28.3	1007	14
DenBesten	DB34-92 ↗	CONV	92	223.5	14.1	1	28.3	1006	15
REA	98A15 ↗	STX	98	222.1	14.1	1	28.7	999	16
Hefty	H4942 RIB ↗	VT2P	99	220.8	13.6	2	28.3	994	17
DeKalb	DKC50-87RIB GC ↗	STX	100	220.7	14.2	3	28.3	993	18
Dairyland	DS-3900AM ↗	AM	99	220.0	14.1	1	28.0	990	19
Thunder	T6301 AA ↗	AA	101	217.4	14.1	1	28.3	978	20
Heine	6900 ↗	PCE	99	216.8	14.2	1	28.0	976	21
Dairyland	DS-4219AM ↗	AM	102	216.4	14.0	5	28.0	974	22
Rob-See-Co	RC5188-SSP ↗	STXP	101	216.1	14.0	1	28.0	972	23
Viking Blue River	46-02 ↗	CONV	102	214.7	14.0	1	28.3	966	24
Pioneer	P0404AM GC ↗	AM	104	214.1	14.4	1	28.3	963	25
Hefty	H4933 RIB ↗	VT2PDG	99	214.0	14.1	4	28.0	963	26
Wyffels	W2595 ↗	TRE	101	213.2	14.0	1	29.0	959	27
Thunder	T6902 VT2P ↗	VT2P	102	212.9	13.9	1	28.0	958	28
Hefty	H5254 ↗	STX	102	212.5	14.0	1	28.0	956	29
Renk	RK600VT2P ↗	VT2P	100	212.3	14.0	2	28.3	955	30
DEKALB	DKC52-18RIB CK	STX	102	207.2	14.0	1	28.3	932	39
				Averages =	211.1	14.0	1	28.2	950
				LSD (0.10) =	25.4	0.3	ns		
				LSD (0.25) =	13.3	0.1	ns		
				C.V. =	13.2				
				Historic yield: 162.17 bu/a, 1 yr(s)					



Mark Tollefson

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Yield & Income Factors:

Base Moisture = 15.0% Shrink = 1.0 Drying = \$0.06 Prices: GMO = \$4.50

Report Date: 11/06/2023

† 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: MNS Seed Testing, LLC New Richland, MN

2023 Corn Grain Top 30 Harvest Report

South Dakota Southeast [SDSE] BURBANK, SD
Tom Hall, Union County, SD

Full-Season Test	103 - 108 Day CRM B2023SDSE07b
Top 30 of 54	For Gross Income (Sorted by Yield) Average of (4) Replications
PREV. CROP/HERB:	Soybeans / Liberty, Roundup
SOIL DESCRIPTION:	Trent-Tetonka-Wakonda Complex silt loam, mod. well drained, non-irrigated
SOIL CONDITION:	Minimum W/O Fall Till, low P, very high K, 7.8 pH, 3.8% OM, 22.9 CEC
PEST MANAGEMENT:	Atrazine, Impact, Resicore, Ams
FERTILITY - Applied N:	25 Spring, 75 Sidedress, 20 Foliar Rescue
Applied N-P-K (units):	120-40-40
SEEDED - RATE - ROW:	May 4 32.5 /A 30" spacing
HARVESTED - STAND:	Nov 4 28.2 /A

TEST COMMENTS:

A pre-emerge herbicide was not used and we had some weed pressure early. By mid-June the plot was a little uneven and we noted some regrowth of weeds after spraying the post-emerge herbicide. At harvest, there was more variability in yield in the early season test as a depression in the land seemed to have an uneven stand and grass pressure. The field around the plot was averaging around 230 bu/acre. Some minor goose-necked corn was noted at harvest. Stalk health was good with only minor stalk lodging. The corn moistures were low and we observed some butt shelling during harvest. There were better yields and plot conditions in the full-season test.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
DenBesten	DB34-06 ↗	CONV	106	278.1	14.9	2	28.7	1251	1
Renk	RK703PWE ↗	PCE	106	266.8	14.6	1	28.0	1201	2
DeKalb	DKC107-33RIB GC ↗	STXP	107	265.7	14.7	1	29.0	1196	3
Wyffels	W5406 ↗	VT2P	108	263.8	14.8	1	28.0	1187	4
Rob-See-Co	RC5694-VT2P ↗	VT2P	106	258.2	14.9	1	28.7	1162	5
Dairyland	DS-4833AM ↗	AM	108	258.0	14.3	1	28.0	1161	6
Hefty	H5862 ↗	VT2P	108	257.3	15.3	4	28.3	1153	7
Miller Hybrids	M07-97 ↗	CONV	107	255.5	14.4	1	28.7	1150	8
Heine	7740 ↗	PCE	107	249.6	14.9	1	28.3	1123	9
Renk	RK707TRE ↗	TRE	105	248.2	14.0	1	28.7	1117	10
REA	107B83 ↗	VT2P	107	247.6	14.4	1	28.3	1114	11
DenBesten	DB33-05 ↗	CONV	105	245.1	14.8	2	28.0	1103	12
REA	105B51 ↗	VT2P	105	243.3	14.0	1	27.6	1094	13
Dairyland	DS-4686AM ↗	AM	106	240.2	14.2	1	28.0	1081	14
Wyffels	W5019 ↗	STXP	107	239.7	14.5	1	28.0	1079	15
REA	103B55 ↗	VT2P	103	237.2	14.1	1	28.0	1067	16
Hefty	H5432 ↗	VT2P	104	237.1	14.0	1	28.0	1067	17
Rob-See-Co	D03-07-VT2P ↗	VT2P	103	236.3	14.0	1	28.7	1063	18
Rob-See-Co	RC5836-VT2P ↗	VT2P	108	235.5	14.3	1	28.7	1060	19
Wyffels	W3309 ↗	STXP	103	235.0	14.3	1	28.0	1058	20
Jacobsen	JS0513TRE ↗	TRE	107	234.8	14.8	1	28.3	1057	21
DenBesten	DB33-08 ↗	CONV	108	231.5	14.8	1	28.7	1041	22
Jacobsen	JS7420VT2PRO ↗	VT2P	107	231.2	15.6	2	28.0	1033	25
Wyffels	W3576RIB ↗	VT2P	103	230.6	14.0	1	28.0	1038	23
Viking Blue River	72-06 ↗	CONV	106	230.1	14.4	2	27.6	1035	24
REA	103A77 ↗	STX	103	228.8	14.5	1	28.3	1030	26
Viking Blue River	84-05 ↗	CONV	105	228.3	14.3	1	28.7	1027	27
DeKalb	DKC56-65RIB GC ↗	STX	106	228.3	14.4	1	27.6	1027	28
Thunder	T6204 VT2P ↗	VT2P	104	227.8	14.1	3	28.0	1025	29
Thunder	T6405 TRE ↗	TRE	105	226.8	14.2	1	28.7	1021	30
DEKALB	DKC52-18RIB CK	STX	102	204.5	14.4	1	28.3	920	51
				Averages =	230.5	14.4	1	28.2	1037
				LSD (0.10) =	23.6	0.4	1		
				LSD (0.25) =	12.4	0.2	1		
				C.V. =	11.3				
Mark Tollefson				Historic yield: 162.17 bu/a, 1 yr(s)					
mark.tollefson@firstseedtests.com, (507) 456-2357									

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.0 Drying = \$0.06 Prices: GMO = \$4.50

Report Date: 11/06/2023

† 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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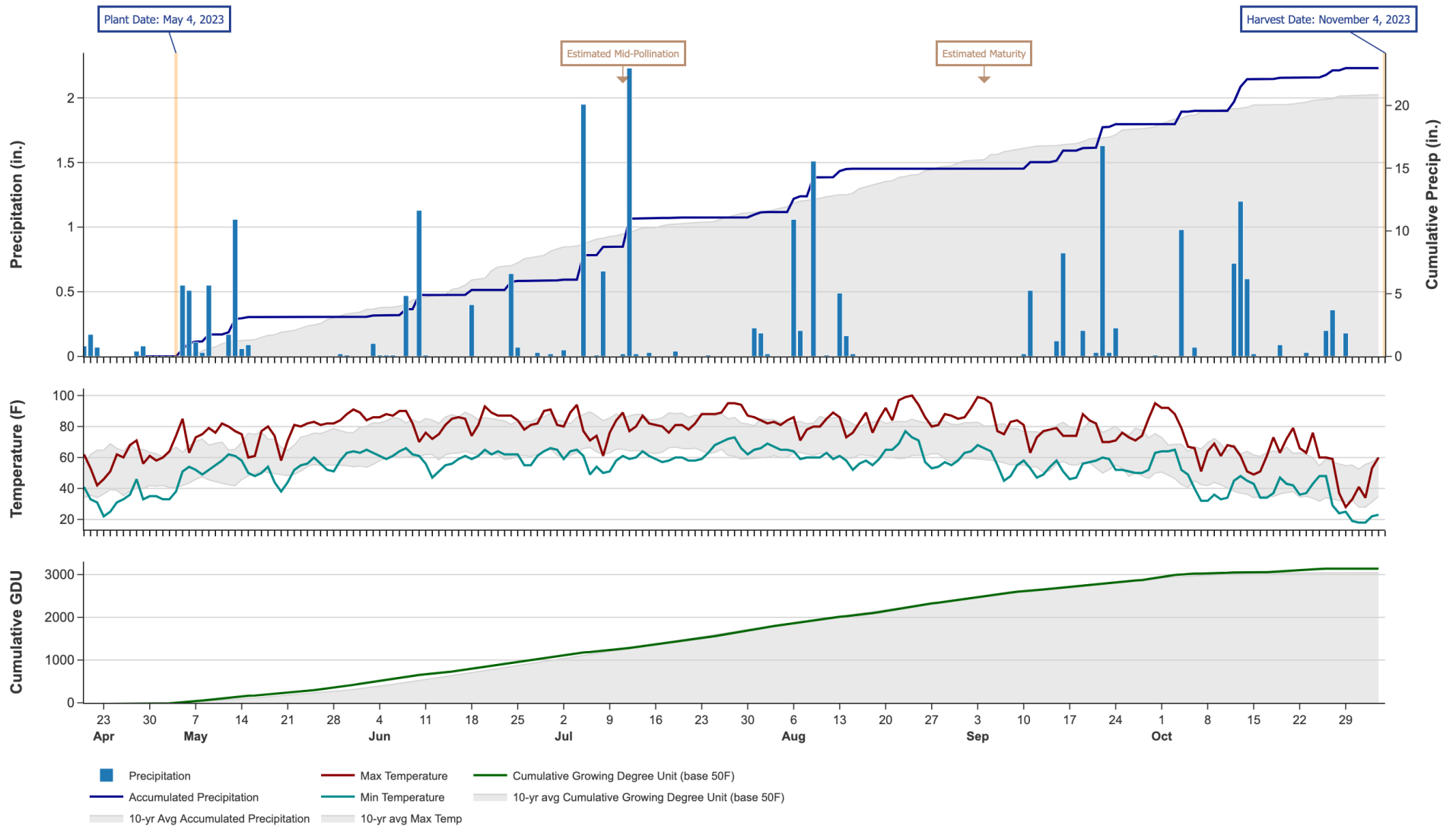
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2023 Corn - South Dakota Southeast [SDSE]

Weather Conditions Summary at BURBANK, SD

Weather Data Retrieved: 11/06/2023

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct	Nov*	Total
Precip (in) (Diff)	0.4 0.9 (-0.5)	3.2 4.2 (-1.0)	2.9 4.9 (-2.0)	5.2 3.1 (+2.2)	3.6 4.0 (-0.3)	3.6 2.9 (+0.7)	4.5 2.5 (+1.9)	0.0 0.0 (-0.0)	23.4 22.6 (+0.9)
GDU Avg (Diff)	26 62 (-36)	432 339 (+92)	646 670 (-24)	655 750 (-95)	686 681 (+4)	510 501 (+8)	221 130 (+90)	0 0 (0)	3176 3136 (+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.

2023 Corn - South Dakota Southeast [SDSE]

Early-Season Test Products (56 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Augusta	A3052-DV	DV	Y*	102	CM,C2
Chargen	VX9931	PCE	Y	99	CM, Vi
Dairyland	DS-3881AM	AM	Y	98	Lum
Dairyland	DS-3900AM	AM	Y	99	Lum, L1
Dairyland	DS-4003Q	QR	Y	100	Lum, L1
Dairyland	DS-4219AM	AM	Y	102	Lum, L1
DeKalb	DKC50-87RIB GC	STX	Y	100	AC,P5V,EDC-EL
DeKalb	DKC52-18RIB CK	STX	Y	102	AC,P5V,EDC-EL
DenBesten	DB32-02	CONV	N	102	CM,C2,Vi
DenBesten	DB33-99	CONV	N	99	CM,C2,Vi
DenBesten	DB34-92	CONV	N	92	CM,C2,Vi
Enestvedt	E539DP RIB	VT2P	Y	102	AC,P2
Epley	E9910	CONV	N	99	Vi5
Golden Harvest	G00A97-AA	AA	Y	100	CM,C5,Va
Golden Harvest	G01B63-AA	AA	Y	101	CM,C5,Va
Hefty	H4933 RIB	VT2PDG	Y	99	HC
Hefty	H4942 RIB	VT2P	Y	99	HC
Hefty	H4964	STXP	Y	99	HC
Hefty	H5062	VT2P	N	100	HC
Hefty	H5254	STX	N	102	HC
Heine	6900	PCE	Y	99	Treated
Heine	7224	VT2P	Y	101	Treated
Heine	7360	TRE	Y	102	Treated
Heine	7450	VT2P	Y	104	Treated
Heine	7480	VT2PDG	Y	102	Treated
Jacobsen	JS0223VT2P	VT2P	Y	102	Treated
Jacobsen	JS5206DGV2P	VT2PDG	Y	102	Treated
Miller Hybrids	M00-75BGH EZ	AA	Y	100	MSC
Miller Hybrids	M98-70	CONV	N	98	MSC
Pioneer	P0404AM GC	AM	Y	104	Lum
REA	101P51	STXP	Y	101	AC,P5V,EDC-B
REA	98A15	STX	Y	98	AC,P5V,EDC-B
REA	98T64	TRE	Y	98	AC,P5V,EDC-B
Renk	RK579DGV2P	VT2PDG	Y	99	AC,P2
Renk	RK582SSTX	STX	N	98	AC,P5V
Renk	RK590VT2P	VT2P	N	98	AC,P2
Renk	RK600VT2P	VT2P	N	100	AC,P2
Renk	RK628VT2P	VT2P	N	102	AC,P5V,B300
Rob-See-Co	D01-90-VT2P	VT2P	Y	101	CM,C2,Vi,Va
Rob-See-Co	D98-43-TRE	TRE	Y	98	CM,C2,Vi,Va
Rob-See-Co	RC4937-SSP	STXP	Y	99	P5V
Rob-See-Co	RC5062-AA	AA	Y	100	CM,C2,Vi,Va

Company/Brand	Brand/Product	Technology	RIB	RM	Seed Treat.
Rob-See-Co	RC5188-SSP	STXP	Y	101	AC,P5V,EDC-EL
Thunder	T6300 VT2P	VT2P	Y	100	AC,P2
Thunder	T6301 AA	AA	Y	101	CM,C2,Vi,Va
Thunder	T6498 PC	PCE	N	98	CM,C2,Vi,Va
Thunder	T6902 VT2P	VT2P	Y	102	AC,P2
Thunder	T6999 VT2P	VT2P	Y	99	AC,P2
Viking Blue River	24-01	CONV	N	101	AC,P2
Viking Blue River	44-98	CONV	N	98	CM,C2,Sb
Viking Blue River	46-02	CONV	N	102	CM,C2,Sb
Wyffels	W1826	VT2P	N	97	AC,P5
Wyffels	W1988	STX	N	98	AC,P5
Wyffels	W1996RIB	VT2P	Y*	98	CM,C2,Vi,Va
Wyffels	W2595	TRE	N	101	AC,P5
Wyffels	W2629	STXP	N	101	AC,P5

* 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.

2023 Corn - South Dakota Southeast [SDSE]

Full-Season Test Products (54 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Blue River	49M23	CONV	U	103	Treated
Dairyland	DS-4567Q	QR	Y	105	Lum, L1
Dairyland	DS-4686AM	AM	Y	106	Lum
Dairyland	DS-4833AM	AM	Y	108	Lum, L1
DeKalb	DKC107-33RIB GC	STXP	Y	107	AC,P5V,EDC-EL
DeKalb	DKC52-18RIB CK	STX	Y	102	AC,P5V,EDC-EL
DeKalb	DKC56-65RIB GC	STX	Y	106	AC,P5V,EDC-EL
DenBesten	DB32-07	CONV	N	107	CM,C2,Vi
DenBesten	DB33-05	CONV	N	105	CM,C2,Vi
DenBesten	DB33-08	CONV	N	108	CM,C2,Vi
DenBesten	DB34-06	CONV	N	106	CM,C2,Vi
Enestvedt	E541	CONV	N	106	CM,C2,Vi
Golden Harvest	G03B19-AA	AA	Y	103	CM,C5,Va
Golden Harvest	G08R52-V	V	Y	108	CM,C5,Va
Hefty	H5432	VT2P	N	104	HC
Hefty	H5442	VT2P	N	104	HC
Hefty	H5655	TRE	N	106	HC
Hefty	H5674	STXP	Y	106	HC
Hefty	H5862	VT2P	N	108	HC
Heine	7410	PCE	Y	104	Treated
Heine	7650VT2PRO	VT2P	N	106	Treated
Heine	7740	PCE	Y	107	Treated
Heine	7800	PCE	Y	108	Treated
Heine	795	VT2P	Y	107	Treated
Jacobsen	JS0513TRE	TRE	Y	107	Treated
Jacobsen	JS7420VT2PRO	VT2P	Y	107	Treated
Miller Hybrids	M07-97	CONV	N	107	MSC
Miller Hybrids	MPB09-51	CONV	N	108	MSC
Miller Hybrids	RX03-47	CONV	N	103	MSC
Pioneer	P0404AM GC	AM	Y	104	Lum
REA	103A77	STX	Y	103	AC,P5V
REA	103B55	VT2P	Y	103	AC,P5V,EDC-B
REA	104P75	STXP	Y	104	AC,P5V,EDC-B
REA	105B51	VT2P	Y	105	AC,P5V,EDC-B
REA	107B83	VT2P	Y	107	AC,P5V,EDC-B
Renk	RK625DGV2P	VT2PDG	N	104	AC,P2
Renk	RK703PWE	PCE	N	106	Lum,P5V
Renk	RK707TRE	TRE	N	105	AC,P5V,B300
Renk	RK720TRE	TRE	N	106	AC,P2
Rob-See-Co	D03-07-VT2P	VT2P	Y	103	AC,P2V
Rob-See-Co	RC5422-PCE	PCE	N	104	CM,C2,Vi,Va
Rob-See-Co	RC5448-VT2P	VT2P	Y	104	AC,P2V

Company/Brand	Brand/Product	Technology	RIB	RM	Seed Treat.
Rob-See-Co	RC5694-VT2P	VT2P	Y	106	AC,P2
Rob-See-Co	RC5836-VT2P	VT2P	Y	108	CM,C2,Vi,Va
Thunder	T6204 VT2P	VT2P	Y	104	AC,P2
Thunder	T6306 PC	PCE	Y	106	CM,C2,Vi,Va
Thunder	T6405 TRE	TRE	Y	105	AC,P2
Viking Blue River	72-06	CONV	N	106	CM,C2,Sb
Viking Blue River	84-05	CONV	N	105	CM,C2,Sb
Wyffels	W3309	STXP	N	103	AC,P5
Wyffels	W3576RIB	VT2P	Y*	103	CM,C2,Vi,Va
Wyffels	W4025RIB	TRE	Y*	105	CM,C2,Vi,Va
Wyffels	W5019	STXP	N	107	AC,P5
Wyffels	W5406	VT2P	N	108	AC,P5

* 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

CK	Identifies a check product included in early- and full-season tests.
GC	Grower Comparison product included by FIRST when space permits.
^	Innotech™ brand seed is distributed by Rob-See-Co, LLC. Innotech™ is a trademark of Syngenta. Power Plus® brand seed is distributed by Burrus. Power Plus® is a registered trademark of Corteva Agriscience.

Corn Technologies

AA	Agrisure® Above (CB,HX,LL,GT), formerly Agrisure® 3120
AM	Optimum® AcreMax®
CONV	Conventional
DV	DuracadeViptera™ (Vip,CB,HX,RW,RW2,LL,GT), formerly Agrisure Duracade® 5222
PCE	PowerCore® Enlist®
QR	Qrome®
STX	SmartStax®
STXP	SmartStax® Pro with RNAi Technology
TRE	Trecepta®
V	Viptera™ (Vip,CB,HX,LL,GT), formerly Agrisure Viptera® 3220
VT2P	VT Double PRO®
VT2PDG	DroughtGard® with VT Double PRO®

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

Corn Seed Treatments*

NA	Not Available
AC,P2	Acceleron® 250
AC,P2V	Acceleron® Poncho 250/Votivo
AC,P5	Acceleron® 500
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,EDC-EL	Acceleron® ELITE Poncho 500/Votivo with Enhanced Disease Control
CM,C2	CruiserMaxx® 250
CM,C2,Sb	CruiserMaxx® 250, SabrEx Innoculant
CM,C2,Vi	CruiserMaxx® 250 with Vibrance
CM,C2,Vi,Va	CruiserMaxx® 250 with Vibrance, Vayantis®
CM,C5,Va	CruiserMaxx® 500 with Vayantis®
CM, Vi	CruiserMaxx®, Vibrance
HC	Hefty Complete
Lum	LumiGEN™ (Corteva Agriscience)
Lum, L1	LumiGEN, Lumisure 1250
Lum,P5V	LumiGEN™ Poncho 500/Votivo
MSC	Miller Hybrids ShieldCoat™ with Vertex
P5V	Poncho 500/Votivo
Treated	Treated seed, unspecified
Vi5	Vibrance® Cinco

* Seed treatments may include unspecified plant health promoting components.