

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

2023 Corn Grain Top 30 Harvest Report

South Dakota Southeast [SDSE] TEA, SD
Ryan Bonsall, Lincoln County, SD

Early-Season Test	98 - 102 Day CRM B2023SDSE11a
Top 30 of 56	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybeans / Enlist
SOIL DESCRIPTION:	Huntimer silty clay loam, well drained, non-irrigated
SOIL CONDITION:	Conventional W/ Fall Till, medium P, medium K, 7.7 pH, 4.1% OM, 26.4 CEC
PEST MANAGEMENT:	Calistoga, Atrazine
FERTILITY - Applied N:	200 Spring, 25 Foliar Rescue
Applied N-P-K (units):	225-50-50
SEEDED - RATE - ROW:	May 5 32.5 /A 30" spacing
HARVESTED - STAND:	Nov 1 29.9 /A

TEST COMMENTS:

This was a new site that we found in late spring. It had a good stand with great weed control. After June when conditions got hot and dry, some stress showed up in the corn and contributed to some variable yields which seemed to affect the full-season test the most. Good conditions at harvest with healthy stalks and shelling went well. The surrounding field had yields right around 200 bu/acre on average. One replicate was removed from each test due to higher yield variation in those areas. Results should be used with caution due to elevated yield variability on lighter soils with the drought stress.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Wyffels	W2595 ↗	TRE	101	249.5	14.9	1	29.5	1123	1
Hefty	H4933 RIB ↗	VT2PDG	99	245.9	15.0	1	30.0	1106	2
Thunder	T6999 VT2P ↗	VT2P	99	241.4	15.1	1	30.5	1085	3
Dairyland	DS-4219AM ↗	AM	102	236.7	15.3	1	30.0	1061	4
Wyffels	W1826 ↗	VT2P	97	235.2	15.2	1	29.0	1055	5
Thunder	T6301 AA ↗	AA	101	234.8	15.3	1	30.0	1052	6
Dairyland	DS-3900AM ↗	AM	99	230.9	15.1	1	30.0	1038	7
Jacobsen	JS5206DGV2P ↗	VT2PDG	102	230.4	14.9	2	30.0	1037	8
Jacobsen	JS0223VT2P ↗	VT2P	102	230.1	15.1	1	30.5	1034	9
Hefty	H5254 ↗	STX	102	229.4	15.2	1	30.0	1030	10
Viking Blue River	46-02 ↗	CONV	102	228.9	15.3	1	29.5	1026	11
Heine	7480 ↗	VT2PDG	102	227.7	14.9	2	30.0	1025	12
Renk	RK582SSTX ↗	STX	98	226.2	14.8	1	30.5	1018	13
Wyffels	W2629 ↗	STXP	101	224.6	15.1	1	30.5	1009	14
Thunder	T6902 VT2P ↗	VT2P	102	224.6	15.3	1	30.0	1007	15
Viking Blue River	44-98 ↗	CONV	98	223.9	15.1	1	30.5	1006	16
DeKalb	DKC50-87RIB GC ↗	STX	100	223.8	15.1	1	30.5	1006	17
Heine	7360 ↗	TRE	102	223.3	15.2	1	30.5	1003	18
Golden Harvest	G01B63-AA ↗	AA	101	221.9	15.2	1	29.5	996	20
REA	101P51 ↗	STXP	101	221.8	15.4	2	29.5	992	22
Heine	7450 ↗	VT2P	104	221.6	15.0	1	29.0	997	19
Wyffels	W1988 ↗	STX	98	221.4	15.1	1	29.5	995	21
REA	98A15 ↗	STX	98	220.5	15.2	1	29.5	989	24
Dairyland	DS-3881AM ↗	AM	98	220.4	15.1	2	30.5	990	23
Augusta	A3052-DV ↗	DV	102	219.8	15.4	1	29.5	983	26
Renk	RK590VT2P ↗	VT2P	98	219.1	15.0	1	30.0	986	25
Thunder	T6300 VT2P ↗	VT2P	100	219.0	15.2	1	29.5	982	27
Heine	7224 ↗	VT2P	101	218.9	15.4	1	29.5	980	28
Pioneer	P0404AM GC ↗	AM	104	218.1	15.2	1	30.0	978	29
Wyffels	W1996RIB ↗	VT2P	98	216.0	14.8	1	29.5	972	30
DEKALB	DKC52-18RIB CK	STX	102	201.9	15.9	1	30.5	898	52

Mark Tollefson

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Averages =	216.9	15.1	2	29.9	974
LSD (0.10) =	19.3	0.3	ns		
LSD (0.25) =	10.1	0.1	ns		
C.V. =	8.5				

Historic yield: new site

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.1 Drying = \$0.06 Prices: GMO = \$4.50

Report Date: 11/02/2023

† 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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2023 Corn Grain Top 30 Harvest Report

South Dakota Southeast [SDSE] TEA, SD
Ryan Bonsall, Lincoln County, SD

Full-Season Test	103 - 108 Day CRM B2023SDSE11b
Top 30 of 54	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybeans / Enlist
SOIL DESCRIPTION:	Huntimer silty clay loam, well drained, non-irrigated
SOIL CONDITION:	Conventional W/ Fall Till, medium P, medium K, 7.7 pH, 4.1% OM, 26.4 CEC
PEST MANAGEMENT:	Calistoga, Atrazine
FERTILITY - Applied N:	200 Spring, 25 Foliar Rescue
Applied N-P-K (units):	225-50-50
SEEDED - RATE - ROW:	May 5 32.5 /A 30" spacing
HARVESTED - STAND:	Nov 1 29.7 /A

TEST COMMENTS:

This was a new site that we found in late spring. It had a good stand with great weed control. After June when conditions got hot and dry, some stress showed up in the corn and contributed to some variable yields which seemed to affect the full-season test the most. Good conditions at harvest with healthy stalks and shelling went well. The surrounding field had yields right around 200 bu/acre on average. One replicate was removed from each test due to higher yield variation in those areas. Results should be used with caution due to elevated yield variability on lighter soils with the drought stress.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Wyffels	W5406 ↗	VT2P	108	248.7	16.0	3	29.5	1104	1
Dairyland	DS-4686AM ↗	AM	106	245.3	14.9	6	29.5	1104	2
Heine	7650VT2PRO ↗	VT2P	106	240.2	15.7	1	30.0	1071	3
Renk	RK625DGVT2P ↗	VT2PDG	104	234.0	15.3	1	29.0	1049	4
Rob-See-Co	RC5448-VT2P ↗	VT2P	104	233.1	15.3	1	29.5	1044	5
REA	107B83 ↗	VT2P	107	230.0	15.9	1	30.0	1023	6
Rob-See-Co	RC5422-PCE ↗	PCE	104	223.8	15.5	1	29.5	1000	7
Rob-See-Co	RC5694-VT2P ↗	VT2P	106	223.5	15.6	2	30.0	998	8
Jacobsen	JS7420VT2PRO ↗	VT2P	107	221.5	16.0	1	29.5	983	13
Dairyland	DS-4567Q ↗	QR	105	221.0	15.7	1	29.5	985	12
Heine	7410 ↗	PCE	104	220.3	15.4	1	29.5	987	10
Rob-See-Co	RC5836-VT2P ↗	VT2P	108	220.1	16.0	1	29.5	977	14
Hefty	H5432 ↗	VT2P	104	220.1	15.1	1	29.5	989	9
REA	105B51 ↗	VT2P	105	219.6	15.1	1	29.5	986	11
Renk	RK703PWE ↗	PCE	106	217.9	15.3	1	29.5	976	16
REA	104P75 ↗	STXP	104	217.6	15.1	1	30.0	977	15
DeKalb	DKC107-33RIB GC ↗	STXP	107	216.6	15.5	1	30.0	968	17
Wyffels	W3576RIB ↗	VT2P	103	215.7	15.2	1	29.5	968	18
Thunder	T6405 TRE ↗	TRE	105	213.6	15.1	1	29.5	959	19
Jacobsen	JS0513TRE ↗	TRE	107	212.7	15.5	4	30.5	951	20
Heine	7800 ↗	PCE	108	210.6	15.7	5	30.0	939	21
Hefty	H5442 ↗	VT2P	104	209.8	15.4	1	30.5	939	22
Rob-See-Co	D03-07-VT2P ↗	VT2P	103	209.0	15.4	2	29.5	935	23
DenBesten	DB34-06 ↗	CONV	106	208.0	15.6	1	29.5	928	24
Heine	795 ↗	VT2P	107	204.9	15.7	1	29.5	913	26
Hefty	H5862 ↗	VT2P	108	203.6	16.2	1	29.5	902	28
Wyffels	W3309 ↗	STXP	103	203.3	15.0	2	29.5	915	25
Heine	7740 ↗	PCE	107	203.0	16.0	2	29.5	901	29
Miller Hybrids	RX03-47 ↗	CONV	103	202.3	15.3	2	29.5	906	27
DeKalb	DKC56-65RIB GC ↗	STX	106	201.4	15.5	2	29.5	900	30
DEKALB	DKC52-18RIB CK	STX	102	189.8	15.2	1	30.0	852	41
				Averages =	205.7	15.5	2	29.7	920
				LSD (0.10) =	26.8	0.3	2		
				LSD (0.25) =	14.1	0.2	1		
				C.V. =	12.4				
Mark Tollefson				Historic yield: new site					
mark.tollefson@firstseedtests.com, (507) 456-2357									

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.1 Drying = \$0.06 Prices: GMO = \$4.50

Report Date: 11/02/2023

† 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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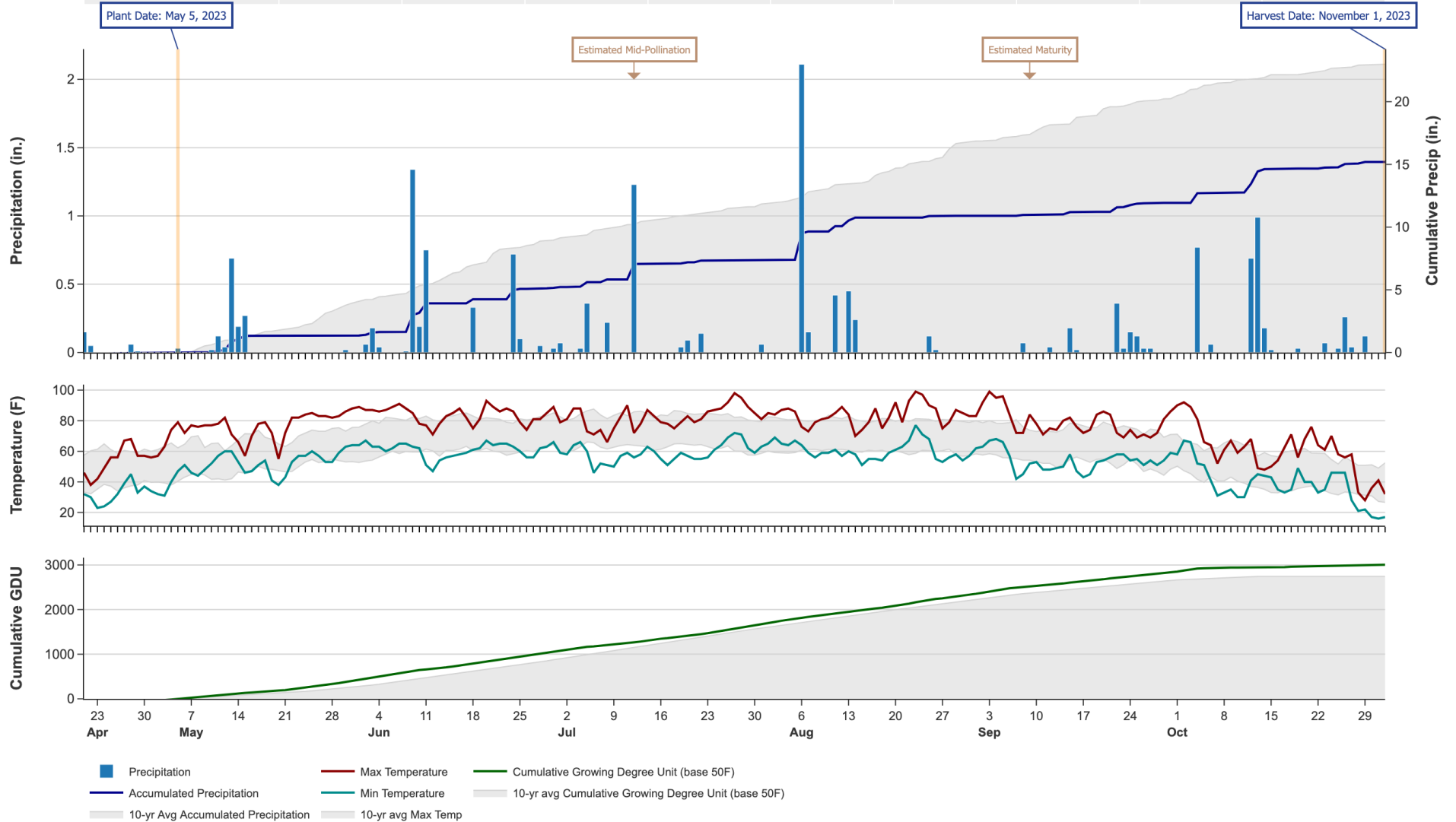
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2023 Corn - South Dakota Southeast [SDSE]

Weather Conditions Summary at TEA, SD

Weather Data Retrieved: 11/02/2023

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct	Nov*	Total
Precip (in) (Diff)	0.3 0.9 (-0.7)	1.4 4.6 (-3.2)	3.8 5.0 (-1.2)	2.2 2.9 (-0.6)	3.5 5.0 (-1.5)	1.0 3.4 (-2.4)	3.3 2.7 (+0.5)	0.0 0.0 (0.0)	15.5 24.5 (-9.0)
GDU Avg (Diff)	18 13 (+4)	428 289 (+138)	657 611 (+45)	614 711 (-97)	660 628 (+31)	496 438 (+57)	176 90 (+85)	0 0 (0)	3049 2782 (+267)



* 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.