

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

2023 Corn Grain Top 30 Harvest Report

South Dakota Northeast [SDNE] ELKTON, SD
Jim Johansen, Lincoln County, SD

Early-Season Test	91 - 95 Day CRM B2023SDNE06a
Top 30 of 43	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Wheat / Brox
SOIL DESCRIPTION:	Kranzburg-Brookings silty clay loam, well drained, non-irrigated
SOIL CONDITION:	Conventional W/O Fall Till, very high P, very high K, 6.8 pH, 4.5% OM, 19.7 CEC
PEST MANAGEMENT:	Dual, Roundup
FERTILITY - Applied N:	80 Spring, 70 Sidedress
Applied N-P-K (units):	150-40-40
SEEDED - RATE - ROW:	May 9 32.5 /A 30" spacing
HARVESTED - STAND:	Oct 17 30.6 /A

TEST COMMENTS:

This plot looked good during stand counts done the end of June. The lack of rainfall throughout the growing season and hail on July 13 affected the yields. The average yield at this farm is usually 175 bu/acre. This year's average was 125. There was also a lot of lodging and tattered tassels due to the hail storm.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Golden Harvest	G91V51-DV ↗	DV	91	136.3	14.9	14	31.0	613	1
Dairyland	DS-3477AM ↗	AM	94	134.5	14.4	7	30.5	605	2
Enestvedt	E612RR ↗	RR2	92	133.7	14.6	10	31.4	602	3
Rob-See-Co	RC4166-V ↗	V	91	133.5	15.0	7	31.4	600	4
Dairyland	DS-3203AM ↗	AM	92	133.3	14.8	14	31.4	600	5
Hefty	H4462 ↗	VT2P	94	133.2	14.5	10	29.5	599	6
Dairyland	DS-3599Q ↗	QR	95	132.9	14.8	9	31.4	598	7
Heine	6215 ↗	VT2P	95	132.1	14.8	23	31.0	594	8
Heine	6350 ↗	VT2P	97	131.9	14.8	8	31.0	594	9
LG Seeds	LG42C80VT2PRIB ↗	VT2P	92	131.3	14.9	23	30.5	591	10
Chargen	VX9131 ↗	DV	91	131.2	15.0	11	31.4	590	11
Renk	RK485DGV2P ↗	VT2PDG	94	130.1	15.1	7	30.5	585	12
REA	92B10 ↗	VT2P	92	130.0	14.6	20	30.9	585	13
Jacobsen	JS7045VT2PRO ↗	VT2P	95	129.9	14.8	13	31.9	584	15
Renk	RK561DGV2P ↗	VT2PDG	95	129.9	14.8	13	29.1	584	16
Augusta	A1943-AA ↗	AA	93	128.6	14.8	6	30.0	579	17
Master Farmer	MBZ-P920-V ↗	V	92	127.9	15.0	10	30.0	576	18
Rob-See-Co	RC4185-VT2P ↗	VT2P	91	126.8	14.6	7	29.0	571	19
Renk	RK502SSTX ↗	STX	95	125.8	14.5	7	28.5	566	20
Hefty	H4264 ↗	STX	92	125.7	14.5	7	29.5	566	21
Hefty	H4564 ↗	STX	95	125.0	15.1	14	31.9	562	22
Jacobsen	JS9263VT2PRO ↗	VT2P	92	124.7	14.8	17	30.5	561	23
Dairyland	DS-3159AM ↗	AM	91	124.0	14.6	18	30.5	558	24
Thunder	T6992 VT2P ↗	VT2P	92	124.0	14.7	10	30.0	558	25
REA	95B53 ↗	VT2P	95	123.3	14.6	18	31.4	555	26
Rob-See-Co	RC4518-VT2P ↗	VT2P	95	122.4	14.8	25	31.9	551	27
Heine	6200 ↗	VT2P	95	122.2	14.9	17	29.5	550	28
Thunder	T8494 SSP ↗	STXP	94	121.9	14.9	11	29.5	549	29
Jacobsen	JS5044DGV2P ↗	VT2PDG	95	121.8	15.1	12	29.5	547	31
Hefty	H4562 ↗	VT2P	95	121.7	14.6	16	31.4	548	30
DEKALB	DKC50-87RIB CK	STX	100	130.1	15.1	7	31.0	584	14

Averages = **123.9** **14.8** **14** **30.6** **558**

LSD (0.10) = 10.1 0.2 ns

LSD (0.25) = 5.3 0.1 ns

C.V. = 7.7

Historic yield: 186.42 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: 10/19/2023

† 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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Full-Season Test	96 - 100 Day CRM B2023SDNE06b
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SOIL CONDITION:	Conventional W/O Fall Till, very high P, very high K, 6.8 pH, 4.5% OM, 19.7 CEC
PEST MANAGEMENT:	Dual, Roundup
FERTILITY - Applied N:	80 Spring, 70 Sidedress
Applied N-P-K (units):	150-40-40
SEEDED - RATE - ROW:	May 9 32.5 /A 30" spacing
HARVESTED - STAND:	Oct 17 30.2 /A

TEST COMMENTS:

This plot looked good during stand counts done the end of June. The lack of rainfall throughout the growing season and hail on July 13 affected the yields. The average yield at this farm is usually 175 bu/acre. This year's average was 125. There was also a lot of lodging and tattered tassels due to the hail storm.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
REA	98A15 ↗	STX	98	138.8	14.6	7	31.9	625	1
Dairyland	DS-3881AM ↗	AM	98	136.1	14.7	10	30.5	612	2
Heine	6725PWE ↗	PCE	97	131.7	14.8	24	31.4	593	3
DeKalb	DKC50-88RIB GC ↗	VT2P	100	131.6	14.7	6	31.0	592	4
REA	98T64 ↗	TRE	98	130.8	14.4	5	30.0	589	5
Dairyland	DS-3900AM ↗	AM	99	128.6	15.0	37	30.5	578	6
Renk	RK582SSTX ↗	STX	98	125.7	15.2	17	28.6	564	7
Hefty	H4964 ↗	STXP	99	124.9	14.4	16	31.4	562	8
Thunder	T6497 TRE ↗	TRE	97	124.4	14.0	7	30.5	560	9
Golden Harvest	G97B68-DV ↗	DV	97	124.3	15.2	20	30.9	558	10
Heine	6815PWE ↗	PCE	98	123.5	14.9	34	30.5	556	11
REA	96A79 ↗	STX	96	123.3	14.1	8	30.5	555	12
Rob-See-Co	D97-95-VT2P ↗	VT2P	97	123.1	14.4	6	31.4	554	13
Jacobsen	JS9723TRE ↗	TRE	97	123.1	14.3	5	29.0	554	14
Rob-See-Co	D98-43-TRE ↗	TRE	98	122.8	14.9	11	25.2	553	15
LG Seeds	LG48C87VT2PRO ↗	VT2P	98	122.5	14.7	10	30.5	551	16
Renk	RK590VT2P ↗	VT2P	98	122.2	14.1	22	29.0	550	17
LG Seeds	LG47C77VT2RIB ↗	VT2P	97	121.3	14.3	22	30.5	546	18
Heine	6760 ↗	TRE	97	121.3	14.3	10	29.5	546	19
LG Seeds	LG5465VT2RIB ↗	VT2P	97	121.1	14.6	22	30.0	545	20
Heine	6575VT2PRIB ↗	VT2P	99	120.8	14.5	35	28.5	544	21
Thunder	T6300 VT2P ↗	VT2P	100	120.6	14.9	35	31.4	543	22
Renk	RK597SSPRO ↗	STXP	99	120.3	14.4	13	31.0	541	23
Hefty	H5062 ↗	VT2P	100	120.3	14.8	20	31.4	541	24
Dairyland	DS-4003Q ↗	QR	100	119.9	15.1	11	29.5	539	25
Hefty	H4653 RIB ↗	VT2PDG	96	119.8	15.0	15	31.4	539	26
Heine	6650 ↗	TRE	99	119.8	14.9	10	29.5	539	27
Jacobsen	JS7096VT2PRO ↗	VT2P	97	118.4	14.6	15	30.0	533	28
Golden Harvest	G98B99-AA ↗	AA	98	118.4	14.6	17	31.0	533	29
Rob-See-Co	RC4937-SSP ↗	STXP	99	118.0	14.5	14	31.0	531	30
DEKALB	DKC50-87RIB CK	STX	100	117.9	14.7	4	31.4	531	32

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Averages = **119.7** **14.7** **18** **30.2** **539**
 LSD (0.10) = 10.9 0.4 13
 LSD (0.25) = 5.7 0.2 7

C.V. = 8.6 Historic yield: 186.42 bu/a, 1 yr(s)

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

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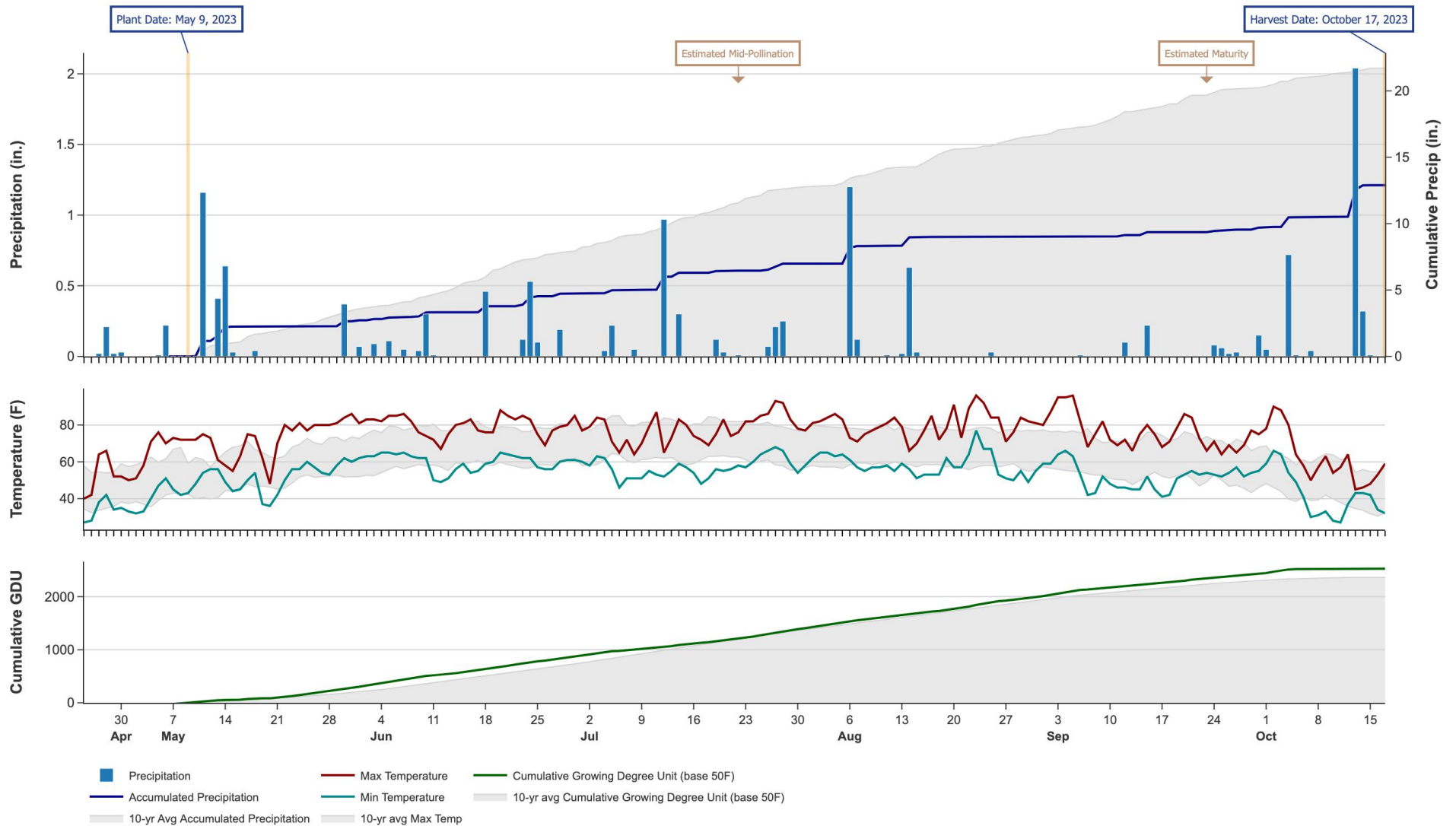
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2023 Corn - South Dakota Northeast [SDNE]

Weather Conditions Summary at ELKTON, SD

Weather Data Retrieved: 10/19/2023

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) (Diff)	0.3 0.7 (-0.4)	2.9 4.4 (-1.5)	2.1 4.5 (-2.4)	2.3 4.8 (-2.6)	2.0 3.9 (-1.8)	0.7 3.6 (-2.9)	3.2 1.5 (+1.7)	13.4 23.3 (-9.9)
GDU Avg (Diff)	15 0 (+15)	349 220 (+128)	593 542 (+50)	532 640 (-108)	586 556 (+29)	434 377 (+56)	100 54 (+45)	2609 2391 (+217)



* 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 Northeast [SDNE]

Early-Season Test Products (43 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Augusta	A1943-AA	AA	N	93	AC,P5V
Augusta	A2140-D	D	N	90	CM,C2
Chargen	VX9131	DV	Y	91	CM, Vi
Dairyland	DS-3159AM	AM	Y	91	Lum, L1
Dairyland	DS-3203AM	AM	Y	92	Lum, L1
Dairyland	DS-3477AM	AM	Y	94	Lum, L1
Dairyland	DS-3599Q	QR	Y	95	Lum, L1
DeKalb	DKC50-87RIB CK	STX	Y	100	AC,P5V,EDC-EL
Enestvedt	E612RR	RR2	N	92	CM, Vi
Golden Harvest	G91V51-DV	DV	Y	91	AVC,C1,Va
Golden Harvest	G92A51-AA	AA	Y	92	CM,C5,Va
Hefty	H4264	STX	Y	92	HC
Hefty	H4332	VT2P	N	93	HC
Hefty	H4462	VT2P	N	94	HC
Hefty	H4562	VT2P	N	95	HC
Hefty	H4564	STX	N	95	HC
Heine	6200	VT2P	Y	95	Treated
Heine	6215	VT2P	Y*	95	Treated
Heine	6330DGVT2PRIB	VT2PDG	Y*	95	Treated
Heine	6350	VT2P	N	97	Treated
Heine	6450	STX	Y	95	Treated
Jacobsen	JS5044DGVT2P	VT2PDG	Y	95	Treated
Jacobsen	JS7045VT2PRO	VT2P	Y	95	Treated
Jacobsen	JS9263VT2PRO	VT2P	Y	92	Treated
LG Seeds	LG42C80VT2PRIB	VT2P	Y	92	AC,P2V
Master Farmer	MBZ-P920-V	V	Y	92	CM,C2,Vi,Va
REA	92B10	VT2P	Y	92	AC,P5V,EDC-B
REA	95A36	STX	Y	95	AC,P5V,EDC-B
REA	95B53	VT2P	Y	95	AC,P5V,EDC-B
Renk	RK444VT2P	VT2P	N	93	AC,P2
Renk	RK485DGVT2P	VT2PDG	N	94	AC,P2
Renk	RK502SSTX	STX	N	95	AC,P5V
Renk	RK561DGVT2P	VT2PDG	N	95	AC,P2
Rob-See-Co	RC4166-V	V	Y	91	CM,C2,Vi,Va
Rob-See-Co	RC4185-VT2P	VT2P	Y	91	AC,P2V
Rob-See-Co	RC4213-AA	AA	Y	92	CM,C2,Vi,Va
Rob-See-Co	RC4300-VT2P	VT2P	Y	93	AC,P2V
Rob-See-Co	RC4518-VT2P	VT2P	Y	95	CM,C2,Vi,Va
Thunder	T6294 VT2P	VT2PDG	Y	94	AC,P2
Thunder	T6396 VT2P	VT2P	Y	94	AC,P2
Thunder	T6992 VT2P	VT2P	Y	92	AC,P2
Thunder	T8494 SSP	STXP	Y	94	AC,P5

Company/Brand	Brand/Product	Technology	RIB	RM	Seed Treat.
Thunder	TEX23-94	VT2P	Y	94	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.

2023 Corn - South Dakota Northeast [SDNE]

Full-Season Test Products (44 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Chargen	VX9631	PCE	Y	96	CM, Vi
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
DeKalb	DKC50-87RIB CK	STX	Y	100	AC,P5V,EDC-EL
DeKalb	DKC50-88RIB GC	VT2P	Y	100	AC,P5V,EDC-EL
Enestvedt	E600DP RIB	VT2P	Y	99	AC,P2
Golden Harvest	G97B68-DV	DV	Y	97	AVC,C1,Va
Golden Harvest	G98B99-AA	AA	Y	98	CM,C5,Va
Hefty	H4653 RIB	VT2PDG	Y	96	HC
Hefty	H4942 RIB	VT2P	Y	99	HC
Hefty	H4964	STXP	Y	99	HC
Hefty	H5055	TRE	N	100	HC
Hefty	H5062	VT2P	N	100	HC
Heine	6575VT2PRIB	VT2P	Y*	99	Treated
Heine	6650	TRE	N	99	Treated
Heine	6725PWE	PCE	Y	97	Treated
Heine	6760	TRE	Y	97	Treated
Heine	6815PWE	PCE	Y	98	Treated
Jacobsen	JS7096VT2PRO	VT2P	Y	97	Treated
Jacobsen	JS9723TRE	TRE	Y	97	Treated
LG Seeds	LG47C77VT2RIB	VT2P	Y	97	AC,P2
LG Seeds	LG48C87VT2PRO	VT2P	N	98	AC,P5V
LG Seeds	LG5465VT2RIB	VT2P	Y	97	Treated
Master Farmer	MBZ-R962-AA	AA	Y	96	CM,C2,Vi,Va
REA	96A79	STX	Y	96	AC,P5V,EDC-B
REA	98A15	STX	Y	98	AC,P5V,EDC-B
REA	98T64	TRE	Y	98	AC,P5V,EDC-B
Renk	RK571PWE	PCE	N	96	Lum,P5V
Renk	RK579DGV2P	VT2PDG	Y	99	AC,P2
Renk	RK582SSTX	STX	N	98	AC,P5V
Renk	RK590VT2P	VT2P	N	98	AC,P2
Renk	RK597SSPRO	STXP	N	99	AC,P5V,B300
Rob-See-Co	D97-95-VT2P	VT2P	Y	97	CM,C2,Vi,Va
Rob-See-Co	D98-43-TRE	TRE	Y	98	CM,C2,Vi,Va
Rob-See-Co	RC4680-VT2P	VT2P	Y	96	AC,P2V
Rob-See-Co	RC4779-PCE	PCE	N	97	CM,C2,Vi,Va
Rob-See-Co	RC4937-SSP	STXP	Y	99	P5V
Thunder	T6298 VT2P	VT2P	Y	98	AC,P2
Thunder	T6300 VT2P	VT2P	Y	100	AC,P2
Thunder	T6497 TRE	TRE	Y	97	AC,P2

Company/Brand	Brand/Product	Technology	RIB	RM	Seed Treat.
Thunder	T6498 PC	PCE	N	98	CM,C2,Vi,Va
Thunder	T6999 VT2P	VT2P	Y	99	AC,P2

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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®
D	Duracade™ (CB,HX,RW,RW2,LL,GT), formerly Agrisure Duracade® 5122
DV	DuracadeViptera™ (Vip,CB,HX,RW,RW2,LL,GT), formerly Agrisure Duracade® 5222
PCE	PowerCore® Enlist®
QR	Qrome®
RR2	Roundup Ready® 2 Corn
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
AVC,C1,Va	Avicta® Complete 1250 with Vayantis®
CM,C2	CruiserMaxx® 250
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
P5V	Poncho 500/Votivo
Treated	Treated seed, unspecified

* Seed treatments may include unspecified plant health promoting components.