

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

## 2022 Corn Grain Top 30 Harvest Report

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

<b>Early-Season Test</b>	91 - 95 Day CRM B2022SDNE04a
<b>Top 30 of 53</b>	For Gross Income (Sorted by Yield) Average of (2) Replications
<b>PREV. CROP/HERB:</b>	Soybeans / Roundup, Flexstar, Volunteer, Authority First, Metribuzin
<b>SOIL DESCRIPTION:</b>	Poinsettia-Buse-Wauba silty clay loam, well drained, non-irrigated
<b>SOIL CONDITION:</b>	No-Till, low P, very high K, 7.7 pH, 3.7% OM, 25.1 CEC
<b>PEST MANAGEMENT:</b>	Force, Authority First, Atrazine, Bellum
<b>FERTILITY - Applied N:</b>	175 Spring, 175 Sidedress, zinc
<b>Applied N-P-K (units):</b>	350-75-50
<b>SEEDED - RATE - ROW:</b>	May 16 32.5 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 26 31.6 /A

### TEST COMMENTS:

We planted just as soils dried up from a wet spring. The ends of each plot sat in lower ground and were still a bit tacky in spots at planting. The dry growing year showed up with plot yields that varied more than expected. We found a sand pocket in the soil that faired worse in the latter half of the season. One replicate in each test was removed due to yield variation from dry conditions.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Heine	6215VT2PRO ↗	VT2P	95	<b>232.9</b>	15.7	1	31.2	1388	1
Heine	6330DGV2PRIB ↗	VT2PDG	95	<b>225.9</b>	16.0	1	31.9	1343	2
Heine	6200 ↗	VT2P	95	<b>223.2</b>	15.1	1	31.9	1339	3
Renk	RK444VT2P ↗	VT2P	93	<b>222.1</b>	15.4	1	31.9	1327	4
Jacobsen	JS7045VT2PR ↗	VT2P	95	<b>215.7</b>	14.8	1	31.9	1294	5
REA	95A36 ↗	STX	95	<b>212.8</b>	15.4	1	31.9	1272	7
Dairyland	DS-3477AM ↗	AM	94	<b>212.7</b>	15.1	1	31.9	1275	6
Federal	4580 VT2PRIB ↗	VT2P	95	<b>210.5</b>	15.4	1	31.9	1258	8
Heine	6450VT2PRO ↗	VT2P	95	206.2	15.8	1	31.9	1227	10
Thunder	T6791 VT2P ↗	VT2P	91	204.7	14.4	1	31.9	1228	9
Latham	LH 4517 VT2P RIB ↗	VT2P	95	202.2	15.6	1	31.9	1207	11
REA	4B958 ↗	VT2P	95	201.9	15.9	1	31.9	1201	14
Rob-See-Co	RC4838-3010 GC ↗	3010	98	201.3	15.6	1	31.9	1200	15
Jacobsen	JS7095VT2PR ↗	VT2P	95	200.9	14.5	1	31.9	1205	12
Jacobsen	JS5044DGV2PR ↗	VT2PDG	95	200.9	14.9	1	30.5	1205	13
Latham	LH 4527 VT2P RIB ↗	VT2P	95	198.4	15.9	1	31.9	1180	18
Thunder	THX22-95 ↗	VT2P	95	198.3	15.2	1	31.2	1188	16
Golden Harvest	G91V51-DV ↗	DV	91	197.6	15.2	1	30.5	1183	17
Latham	LH 4242 VT2P RIB ↗	VT2P	92	196.0	14.8	1	31.9	1176	19
Hefty	H4564 ↗	STX	95	193.4	15.8	1	31.9	1152	21
REA	92B10 ↗	VT2P	92	193.0	13.7	3	30.5	1157	20
NK Brand	NK9175-DV ↗	DV	91	192.8	16.6	1	30.5	1138	24
Thunder	T6595 VT2P ↗	VT2P	95	190.5	14.8	1	31.9	1142	22
REA	4B944 ↗	VT2P	94	190.3	15.2	1	31.9	1140	23
Rob-See-Co	RC4213-3120 ↗	AA	92	189.8	16.1	1	31.9	1126	26
Hefty	H4332 ↗	VT2P	93	189.3	15.9	1	31.9	1126	27
Dyna-Gro	D34VC93 ↗	VT2P	94	188.4	14.3	1	31.9	1130	25
NK Brand	NK9347-D ↗	D	93	187.9	16.6	1	31.9	1109	30
Hefty	H4522 ↗	VT2P	95	186.8	14.7	1	31.9	1121	28
Hefty	H4262 RIB ↗	VT2P	92	186.1	14.1	1	31.9	1117	29
DEKALB	DKC50-87RIB CK	STX	100	170.7	14.6	1	30.5	1024	47
				<b>Averages =</b>	<b>188.9</b>	<b>15.0</b>	<b>1</b>	<b>31.6</b>	<b>1130</b>
				<b>LSD (0.10) =</b>	19.6	0.8	ns		
				<b>LSD (0.25) =</b>	10.2	0.4	ns		
				<b>C.V. =</b>	8.0				
mark.tollefson@firstseedtests.com, (507) 456-2357				Historic yield: 210.19 bu/a, 11 yr(s)					

Mark Tollefson

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

**Yield & Income Factors:** Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.06 Prices: GMO = \$6.00

Report Date: 10/28/2022

† 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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## 2022 Corn Grain Top 30 Harvest Report

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

<b>Full-Season Test</b>	<b>96 - 100 Day CRM</b> B2022SDNE04b
<b>Top 30 of 54</b>	For Gross Income (Sorted by Yield) Average of (2) Replications
<b>PREV. CROP/HERB:</b>	Soybeans / Roundup, Flexstar, Volunteer, Authority First, Metribuzin
<b>SOIL DESCRIPTION:</b>	Poinsettia-Buse-Wauba silty clay loam, well drained, non-irrigated
<b>SOIL CONDITION:</b>	No-Till, low P, very high K, 7.7 pH, 3.7% OM, 25.1 CEC
<b>PEST MANAGEMENT:</b>	Force, Authority First, Atrazine, Bellum
<b>FERTILITY - Applied N:</b>	175 Spring, 175 Sidedress, zinc
<b>Applied N-P-K (units):</b>	350-75-50
<b>SEEDED - RATE - ROW:</b>	May 16 32.5 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 26 30.2 /A

### TEST COMMENTS:

We planted just as soils dried up from a wet spring. The ends of each plot sat in lower ground and were still a bit tacky in spots at planting. The dry growing year showed up with plot yields that varied more than expected. We found a sand pocket in the soil that faired worse in the latter half of the season. One replicate in each test was removed due to yield variation from dry conditions.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Renk	RK590VT2P ↗	VT2P	98	<b>247.5</b>	17.1	1	29.8	1455	1
Latham	LH 4657 VT2P RIB ↗	VT2P	96	<b>237.3</b>	16.7	1	31.2	1400	2
Dairyland	DS-3601AM ↗	AM	96	<b>229.1</b>	16.7	1	29.8	1351	3
Thunder	T6298 VT2P ↗	VT2P	98	226.7	16.7	1	29.8	1337	4
Latham	LH 4957 VT2P RIB ↗	VT2P	99	225.5	16.6	1	29.8	1332	5
REA	98A15 ↗	STX	98	222.4	17.3	1	31.2	1304	7
Heine	6555 ↗	VT2P	98	222.4	17.9	1	30.5	1296	9
Enestvedt	E600DP RIB ↗	VT2P	99	222.2	16.4	1	30.5	1315	6
Golden Harvest	G99A37-DV ↗	DV	99	220.2	16.6	1	30.5	1300	8
Jacobsen	JS8053TRE ↗	TRE	98	216.4	16.3	1	30.5	1282	10
Hefty	H4942 RIB ↗	VT2P	99	216.0	16.9	1	30.5	1271	12
Dairyland	DS-3727AM ↗	AM	97	215.5	16.8	1	29.8	1270	13
Heine	6575VT2PRIB ↗	VT2P	99	215.1	16.3	1	31.2	1274	11
Hefty	H4732 ↗	VT2P	97	215.0	16.9	1	29.8	1266	14
Rob-See-Co	RC4838-3010 ↗	3010	98	213.3	17.1	1	29.8	1253	18
Rob-See-Co	RC4983-5222 ↗	DV	99	212.7	17.5	1	29.0	1245	19
Proseed	2196 VT2PRIB ↗	VT2P	96	212.2	16.2	1	29.8	1259	15
Enestvedt	E658DP RIB ↗	VT2P	96	212.1	16.1	1	29.8	1259	16
Dyna-Gro	D40VC41RIB ↗	VT2P	100	211.6	16.1	1	30.5	1256	17
Integra	5052 VT2PRIB ↗	VT2P	100	210.4	17.0	1	29.8	1238	22
Dairyland	DS-4014Q ↗	QR	100	209.2	17.4	1	31.2	1225	24
Hefty	H4653 RIB ↗	VT2PDG	96	208.9	15.9	1	31.9	1243	20
Heine	6500 ↗	VT2P	98	208.3	15.9	1	29.8	1239	21
REA	4B976 ↗	VT2P	97	207.9	17.1	1	27.6	1222	25
Dairyland	DS-3900AM ↗	AM	99	207.4	17.4	1	30.5	1215	27
REA	100T19 ↗	TRE	100	207.2	16.4	1	31.2	1226	23
Heine	6510 ↗	STX	98	206.7	17.0	1	29.1	1216	26
Rob-See-Co	RC4767-3220 ↗	V	97	206.0	17.8	1	27.6	1202	28
NK Brand	NK9874-V ↗	V	98	203.5	16.8	1	31.2	1200	29
Thunder	T6398 TRE ↗	TRE	98	202.4	16.3	1	29.8	1199	30
DEKALB	DKC50-87RIB CK	STX	100	184.1	17.1	1	29.8	1082	48

Averages = **204.3** **16.7** **1** **30.2** **1205**

LSD (0.10) = 23.5 ns ns

LSD (0.25) = 12.3 ns ns

C.V. = 8.9

Historic yield: 210.19 bu/a, 11 yr(s)

Mark Tollefson

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

**Yield & Income Factors:** Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.06 Prices: GMO = \$6.00

Report Date: 10/28/2022

† 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

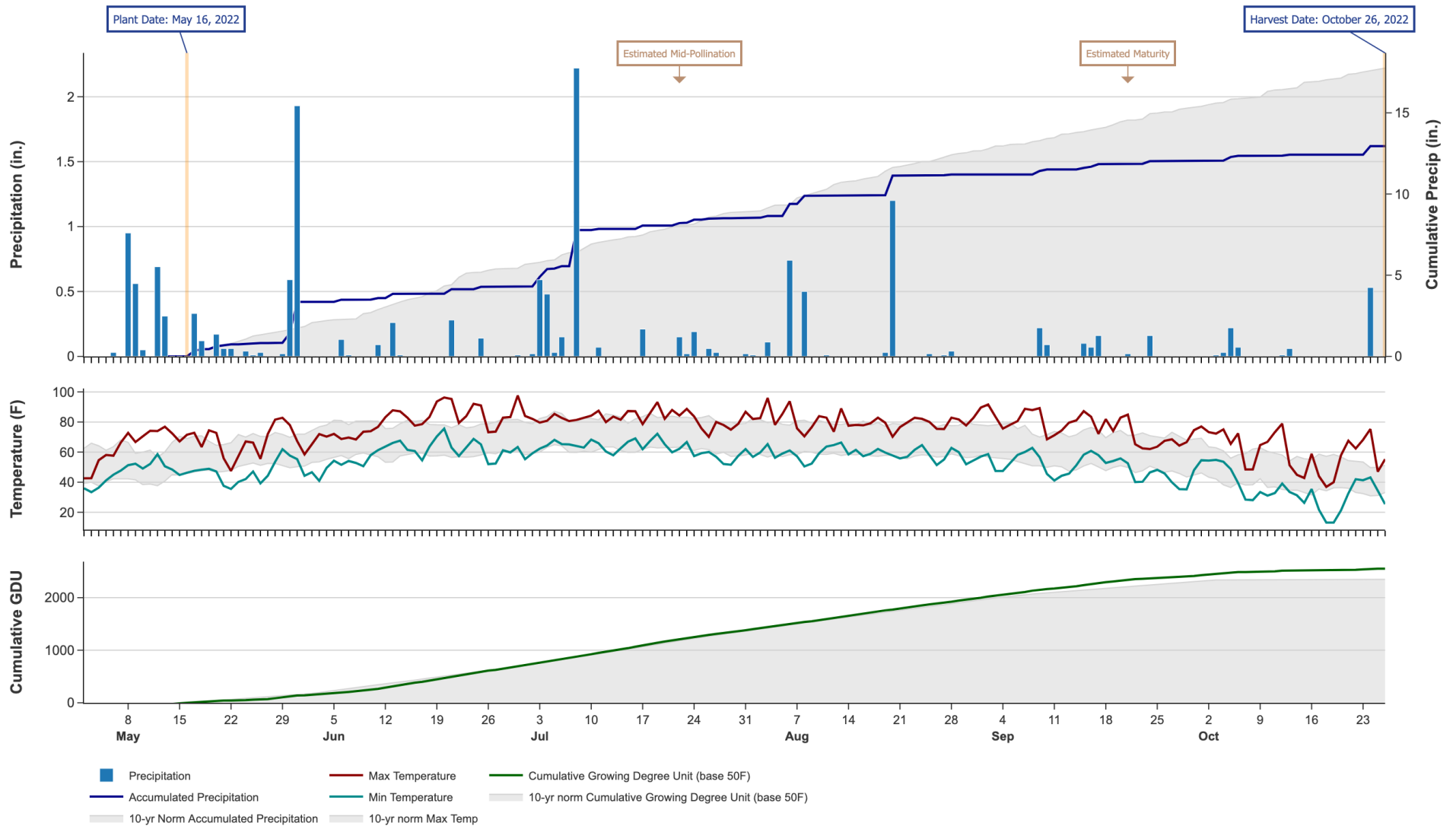
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# 2022 Corn - South Dakota Northeast [ SDNE ]

## Weather Conditions Summary at WATERTOWN, SD

Monthly Total	May*	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in)   Normal (Diff)	6.0   2.9 (+3.1)	0.9   3.7 (-2.8)	4.2   3.5 (+0.8)	2.7   3.7 (-1.1)	0.8   2.7 (-1.9)	0.9   2.4 (-1.5)	15.5   18.9 (-3.4)
GDU   Normal (Diff)	256   248 (+7)	556   538 (+17)	687   672 (+14)	596   576 (+19)	434   370 (+63)	139   35 (+103)	2668   2442 (+225)



\* 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.

## 2022 Corn - South Dakota Northeast [ SDNE ]

### Early-Season Test Products (53 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Augusta	A1943-3120	AA	N	93	AC,P5V
Augusta	A1946-3120	AA	N	95	AC,P5V
Dairyland	DS-3203AM	AM	Y	92	Lum, L1
Dairyland	DS-3366AM	AM	Y	93	Lum, L1
Dairyland	DS-3477AM	AM	Y	94	Lum, L1
Dairyland	DS-3550AM	AM	Y	95	Lum, L1
DeKalb	DKC50-87RIB CK	STX	Y	100	AC,P5V,EDC-EL
Dyna-Gro	D31VC23	VT2P	N	91	AC,P2
Dyna-Gro	D32SS92RIB	STX	Y	92	AC,P5
Dyna-Gro	D33QZ83	V	N	93	AC,P5V
Dyna-Gro	D34VC93	VT2P	N	94	AC,P5V,EDC-B
Federal	4300 VT2PRIB	VT2P	Y	93	AC,P2,MAG
Federal	4580 VT2PRIB	VT2P	Y	95	AC,P2,MAG
Golden Harvest	G91V51-DV	DV	Y	91	AVC,C2,Vi,Va
Golden Harvest	G93A49-D	D	Y	93	AVC,C2,Vi,Va
Hefty	H4262 RIB	VT2P	Y	92	HC
Hefty	H4332	VT2P	N	93	HC
Hefty	H4462	VT2P	N	94	HC
Hefty	H4522	VT2P	N	95	HC
Hefty	H4564	STX	N	95	HC
Heine	6122	VT2P	N	94	AC,P5V,EDC-EL
Heine	6200	VT2P	Y	95	AC,P2
Heine	6215VT2PRO	VT2P	N	95	CM,C2,Vi
Heine	6330DGV2PRIB	VT2PDG	Y*	95	AC,P2
Heine	6450VT2PRO	VT2P	N	95	AC,P5V
Integra	4311 VT2PRIB	VT2P	Y	93	AC,P5V,SU+Zn
Integra	4509 VT2PRIB	VT2P	Y	95	AC,P5V,SU+Zn
Jacobsen	JS5044DGV2PR	VT2PDG	Y	95	AC,P2,Va
Jacobsen	JS7045VT2PR	VT2P	Y	95	AC,P2,Va
Jacobsen	JS7095VT2PR	VT2P	Y	95	AC,P2,Va
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
Latham	LH 4527 VT2P RIB	VT2P	Y	95	AC,P5V,EDC-B
NK Brand	NK9175-DV	DV	Y	91	AVC,C2,Vi,Va
NK Brand	NK9347-D	D	Y	93	AVC,C2,Vi,Va
Proseed	2392 VT2PRIB	VT2P	Y	92	AC,P2
REA	4B944	VT2P	Y	94	AC,P5V,EDC-B
REA	4B958	VT2P	Y	95	AC,P5V,EDC-B
REA	92B10	VT2P	Y	92	AC,P5V,EDC-B
REA	95A36	STX	Y	95	AC,P5V,EDC-B

Company/Brand	Brand/Product	Technology	RIB	RM	Seed Treat.
Renk	RK444VT2P	VT2P	N	93	AC,P5V
Renk	RK502SSTX	STX	N	95	AC,P5V
Rob-See-Co	RC4166-3110A	3110A	N	91	CM,C2,Vi
Rob-See-Co	RC4213-3120	AA	Y	92	AVC,C2,Vi,Va
Rob-See-Co	RC4535-3110	3110	N	95	CM,C2,Vi
Rob-See-Co	RC4838-3010 GC	3010	N	98	AC,P2
Thunder	T6294 VT2P	VT2P	Y	94	AC,P2
Thunder	T6595 VT2P	VT2P	Y	95	AC,P2
Thunder	T6791 VT2P	VT2P	Y	91	AC,P2
Thunder	T6992 VT2P	VT2P	Y	92	AC,P2
Thunder	THX22-95	VT2P	Y	95	AC,P5V,EDC-B

\* 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.

## 2022 Corn - South Dakota Northeast [ SDNE ]

### Full-Season Test Products (54 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Augusta	A2148-3220-EZ	V	Y	98	CM,C2
Dairyland	DS-3601AM	AM	Y	96	Lum, L1
Dairyland	DS-3727AM	AM	Y	97	Lum, L1
Dairyland	DS-3900AM	AM	Y	99	Lum, L1
Dairyland	DS-3959Q	QR	Y	99	Lum, L1
Dairyland	DS-4014Q	QR	Y	100	Lum, L1
DeKalb	DKC50-87RIB CK	STX	Y	100	AC,P5V,EDC-EL
Dyna-Gro	D36VC66RIB	VT2P	N	97	AC,P5V
Dyna-Gro	D40VC41RIB	VT2P	N	100	AC,P5V
Enestvedt	E600DP RIB	VT2P	Y	99	AC,P2
Enestvedt	E658DP RIB	VT2P	Y	96	AC,P2
Golden Harvest	G00A97-AA	AA	Y	100	AVC,C2,Vi,Va
Golden Harvest	G99A37-DV	DV	Y	99	AVC,C2,Vi,Va
Hefty	H4653 RIB	VT2PDG	Y	96	HC
Hefty	H4732	VT2P	N	97	HC
Hefty	H4942 RIB	VT2P	Y	99	HC
Hefty	H5055	TRE	N	100	HC
Hefty	H5062	VT2P	N	100	HC
Heine	6500	VT2P	N	98	AC,P2
Heine	6510	STX	N	98	AC,P5V,EDC-EL
Heine	6555	VT2P	N	98	AC,P5V,EDC-EL
Heine	6575VT2PRIB	VT2P	Y*	99	AC,P2
Heine	6600VT2PRO	VT2P	N	99	CM,C2,Vi
Integra	4702 VT2PRIB	VT2P	Y	97	AC,P5V,SU+Zn
Integra	4993 TRERIB	TRE	N	99	AC,P5V
Integra	5052 VT2PRIB	VT2P	Y	100	AC,P5V,SU+Zn
Jacobsen	JS7046VT2PR	VT2P	Y	98	AC,P2,Va
Jacobsen	JS8053TRE	TRE	N	98	AC,P2,Va
Latham	LH 4657 VT2P RIB	VT2P	Y	96	AC,P2
Latham	LH 4669 SS RIB	STX	Y	96	AC,P5V
Latham	LH 4937 VT2P RIB	VT2P	Y	99	AC,P2
Latham	LH 4957 VT2P RIB	VT2P	Y	99	AC,P2,Sb
Latham	LH 5047 VT2P RIB	VT2P	Y	100	AC,P2
NK Brand	NK0007-AA	AA	Y	100	AVC,C2,Vi,Va
NK Brand	NK9874-V	V	Y	98	AVC,C2,Vi,Va
Proseed	2196 VT2PRIB	VT2P	Y	96	CM,C2,Vi,Va
Proseed	2398 TRE	VT2P	Y	98	AC,P5
REA	100T19	TRE	Y	100	AC,P5V,EDC-B
REA	4B976	VT2P	Y	97	AC,P5V,EDC-B
REA	5B994	VT2P	Y	99	AC,P5V,EDC-B
REA	96A49	STX	Y	96	AC,P5V,EDC-B
REA	98A15	STX	Y	98	AC,P5V,EDC-B

Company/Brand	Brand/Product	Technology	RIB	RM	Seed Treat.
Renk	RK561DGVT2P	VT2PDG	N	95	AC,P2
Renk	RK579DGVT2P	VT2PDG	Y	99	AC,P2
Renk	RK590VT2P	VT2P	N	98	AC,P2
Rob-See-Co	RC4767-3220	V	Y	97	AVC,C2,Vi,Va
Rob-See-Co	RC4838-3010	3010	N	98	AC,P2
Rob-See-Co	RC4881-5122	D	Y	98	AVC,C2,Vi
Rob-See-Co	RC4983-5222	DV	Y	99	AVC,C2,Vi,Va
Thunder	T6298 VT2P	VT2P	Y	98	AC,P2
Thunder	T6397 AA	AA	Y	97	AC,P2
Thunder	T6398 TRE	TRE	Y	98	AC,P2
Thunder	T6999 VT2P	VT2P	Y	99	AC,P2
Thunder	T8396 SS	STX	Y	96	AC,P5V,EDC-B

\* 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

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^	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

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3010	Agrisure® 3010 (GT,CB,LL), formerly GT/CB/LL
3110	Agrisure® Viptera® 3110 (Vip, CB,LL,GT)
3110A	Agrisure® Artesian® Viptera® 3110 (Vip, CB,LL,GT)
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
QR	Qrome™
STX	SmartStax®
TRE	Trecepta®
V	Viptera™ (Vip,CB,HX,LL,GT), formerly Agrisure Viptera® 3220
VT2P	VT Double PRO®
VT2PDG	VT Double PRO® DroughtGard®

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

## Corn Seed Treatments\*

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NA	Not Available
AC,P2	Acceleron® 250
AC,P2,MAG	Acceleron® 250, Federal ArmourGuard
AC,P2,Sb	Acceleron® 250, SabrEx Inoculant
AC,P2,Va	Acceleron® 250, Vayantis®
AC,P5	Acceleron® 500
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,SU+Zn	Acceleron® Poncho 500/Votivo, StepUp SP, StepUp Zn
AVC,C2,Vi	Avicta® Complete 250, Vibrance®
AVC,C2,Vi,Va	Avicta® Complete 250, Vibrance®, Vayantis®
CM,C2	CruiserMaxx® 250
CM,C2,Vi	CruiserMaxx® 250 with Vibrance
CM,C2,Vi,Va	CruiserMaxx® 250 with Vibrance, Vayantis®
HC	Hefty Complete
Lum, L1	(2022) LumiGEN, Lumisure 1250

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\* Seed treatments may include unspecified plant health promoting components.