

Test by: North Iowa F.I.R.S.T., Inc. Sanborn, IA

2023 Corn Grain Top 30 Harvest Report

Iowa North Central [IANC] WATERLOO, IA
Rottinghaus Farms, Rottinghaus Farms, Black Hawk County, IA 50703

Early-Season Test	101 - 106 Day CRM B2023IANC06a
Top 30 of 60	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybeans, Rye Cover Crop / Warrant, Liberty, Select Max
SOIL DESCRIPTION:	Marquis-Readlyn loam, moderately drained, non- irrigated
SOIL CONDITION:	Strip-Till, high P, high K, 5.8 pH, 2.9% OM, 15.5 CEC
PEST MANAGEMENT:	Capreno, Atrazine
FERTILITY - Applied N:	207 Fall
Applied N-P-K (units):	207-69-90
SEEDED - RATE - ROW:	May 2 39.2 /A 30" spacing
HARVESTED - STAND:	Oct 4 37.5 /A

TEST COMMENTS:

For a couple weeks after planting, small showers came through regularly and set this farm up for excellent plant establishment. The moisture was welcome, however, it didn't last long. The month of May fell nearly 3" below the 10-yr average and by July 1, the deficit since planting was over 7" below the 10-yr average. Some needed rain came a few days before and during pollination but drought conditions persisted for the remainder of the season all the way through grain fill, preventing top-end yields. At harvest, this area remained in D3 extreme drought and the crop was nearly 12" below the 10-yr average from planting through black layer.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Rob-See-Co	RC5610-PCE ↗	PCE	106	224.3	17.7	0	38.5	1007	1
Rob-See-Co	RC5422-PCE ↗	PCE	104	224.1	17.8	0	36.5	1005	2
NuTech	63A5AM ↗	AM	103	221.3	18.1	0	38.5	991	4
Augusta	A1954 PCE ↗	PCE	104	220.7	17.7	0	39.1	992	3
Cornelius	C6472TRE ↗	TRE	104	218.9	17.7	0	39.1	984	5
NuTech	64B5Q ↗	QR	104	218.6	18.5	0	38.5	975	8
Cornelius	C6578PC ↗	PCE	105	217.1	18.3	0	39.1	970	9
FS InVision	FS 5335P RIB ↗	STXP	103	216.4	17.2	0	35.2	976	7
Integra	5584 PWE ↗	PCE	105	214.1	18.2	0	37.8	957	11
NuTech	66D1AM ↗	AM	106	213.0	18.6	0	33.8	949	13
Renk	RK625DGV2P ↗	VT2PDG	104	212.6	16.5	0	36.5	965	10
Wyffels	W4025RIB ↗	TRE	105	211.7	17.5	0	38.5	953	12
Renk	RK703PWE ↗	PCE	106	211.1	19.1	0	36.5	936	24
Viking	84-05 ↗	CONV	105	210.5	17.3	0	37.1	949	14
NuTech	65D3Q ↗	QR	105	210.0	18.4	0	39.1	937	20
Titan Pro	34-04 DG2P ↗	VT2PDG	104	209.8	17.5	0	37.8	944	17
Wyffels	W2629 ↗	STXP	101	209.7	17.1	0	36.5	947	15
FS InVision	FS 5125L1A EZR ↗	AA	101	209.5	17.1	0	35.8	946	16
Hefty	H5254 ↗	STX	102	208.6	17.4	0	36.5	940	19
Rob-See-Co	RC5188-SSP ↗	STXP	101	208.4	16.9	0	36.5	943	18
FS InVision	FS 5594X RIB ↗	STX	105	208.2	18.7	0	39.1	927	26
Kruger	K0551DP ↗	VT2P	105	208.0	17.4	0	39.1	937	21
Prairie Hybrids	3051ORG ↗	CONV	105	207.4	18.3	0	38.5	927	27
Pioneer	P0339Q GC ↗	QR	103	207.3	17.5	0	38.5	933	25
DeKalb	DKC56-65RIB GC ↗	STX	106	207.2	16.9	0	37.1	937	22
Viking	24-01 ↗	CONV	101	206.8	17.9	0	35.8	927	28
Wyffels	W2595 ↗	TRE	101	206.6	16.6	0	37.1	937	23
Kruger	K0377SS ↗	STX	103	205.2	17.9	0	38.5	920	30
Augusta	A1956-PWE ↗	PCE	106	204.9	17.9	0	38.5	919	31
Epley	E1530 ↗	CONV	105	203.3	16.8	0	35.2	921	29
PIONEER	P0622Q CK	QR	106	222.2	19.5	0	36.5	982	6

Corey Rozenboom

Corey Rozenboom

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Averages = **204.2** **17.7** **37.5** **918**

LSD (0.10) = 7.5 0.7 ns

LSD (0.25) = 3.9 0.4 ns

C.V. = 3.5 Historic yield: 219.36 bu/a, 14 yr(s)

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.04 Prices: GMO = \$4.60

Report Date: 10/05/2023

† 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

Iowa North Central [IANC] WATERLOO, IA
Rottinghaus Farms, Rottinghaus Farms, Black Hawk County, IA 50703

Full-Season Test 107 - 111 Day CRM
B2023IANC06b

Top 30 of 54 For Gross Income
(Sorted by Yield)
Average of (3) Replications

PREV. CROP/HERB: Soybeans, Rye Cover Crop /
Warrant, Liberty, Select Max

SOIL DESCRIPTION: Marquis-Readlyn loam,
moderately drained, non-
irrigated

SOIL CONDITION: Strip-Till, high P, high K, 5.8 pH,
2.9% OM, 15.5 CEC

PEST MANAGEMENT: Capreno, Atrazine

FERTILITY - Applied N: 207 Fall

Applied N-P-K (units): 207-69-90

SEEDED - RATE - ROW: May 2 39.2 /A 30" spacing

HARVESTED - STAND: Oct 4 37.3 /A

TEST COMMENTS:

For a couple weeks after planting, small showers came through regularly and set this farm up for excellent plant establishment. The moisture was welcome, however, it didn't last long. The month of May fell nearly 3" below the 10-yr average and by July 1, the deficit since planting was over 7" below the 10-yr average. Some needed rain came a few days before and during pollination but drought conditions persisted for the remainder of the season all the way through grain fill, preventing top-end yields. At harvest, this area remained in D3 extreme drought and the crop was nearly 12" below the 10-yr average from planting through black layer.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Pioneer	P1185AM GC ↗	AM	111	281.7	23.1	0	37.1	1204	1
NuTech	70F6Q ↗	QR	110	270.0	23.0	0	37.2	1155	2
NuTech	70B4AM ↗	AM	110	253.8	22.1	0	38.5	1095	4
FS InVision	FS 6025X RIB ↗	STX	110	252.4	25.2	0	36.5	1058	8
Pioneer	P0953AM GC ↗	AM	109	250.9	20.8	0	37.8	1096	3
Renk	RK773TRE ↗	TRE	109	249.6	22.4	0	36.5	1074	5
Wyffels	W6886 ↗	VT2P	111	248.7	23.8	0	37.8	1056	9
Titan Pro	30-10 ↗	CONV	110	248.0	22.7	0	37.8	1064	6
Hefty	H6064 ↗	STX	110	247.7	25.0	0	37.2	1040	12
FS InVision	FS 6137PC ↗	PCE	111	243.1	22.1	0	35.9	1050	10
Kruger	K0783DP ↗	VT2P	107	242.2	20.7	0	37.1	1059	7
Wyffels	W5406 ↗	VT2P	108	239.6	21.1	0	38.5	1044	11
FS InVision	FS 5935X RIB ↗	STX	109	238.2	22.0	0	36.5	1029	16
Rob-See-Co	RC6131-SS ↗	STX	111	237.7	22.6	0	38.5	1021	18
Wyffels	W6215 ↗	TRE	109	237.4	21.8	0	39.1	1028	17
Titan Pro	39-08 PCE ↗	PCE	108	237.2	21.2	0	37.8	1033	14
Golden Harvest	G10B61-AA ↗	AA	110	237.2	22.8	0	39.1	1017	20
Kruger	K1191DT ↗	TRE	111	235.9	21.8	0	38.5	1021	19
Titan Pro	31-10 PCE ↗	PCE	110	235.9	22.8	0	38.5	1011	21
Cornelius	C6847TRE ↗	TRE	108	235.8	20.0	0	38.5	1038	13
Kruger	K1139SS ↗	STX	111	235.4	23.4	0	37.8	1004	27
Cornelius	C7021DP ↗	VT2P	110	234.5	22.3	0	38.5	1010	22
Wyffels	W5019 ↗	STXP	107	234.2	19.7	0	35.2	1033	15
Prairie Hybrids	5883 ↗	CONV	109	233.6	22.5	0	39.1	1005	25
FS InVision	FS 6133VDG RIB ↗	VT2PDG	111	233.0	21.9	0	36.5	1007	24
Viking	85-09 ↗	CONV	109	232.6	22.2	0	37.8	1003	28
ProHarvest	81P88 TRERIB ↗	TRE	111	232.2	22.1	0	38.5	1002	30
NuTech	68C1Q ↗	QR	108	231.2	21.5	0	38.5	1003	29
Hefty	H5944 ↗	STX	109	230.9	21.2	0	34.5	1005	26
Epley	E2120 ↗	CONV	111	230.5	20.6	0	35.8	1009	23
PIONEER	P0622Q CK	QR	106	227.6	19.9	0	36.5	1002	31

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Averages = **233.5** **21.8** **37.3** **1010**

LSD (0.10) = 10.7 1.3 ns

LSD (0.25) = 5.6 0.7 ns

C.V. = 4.4 Historic yield: 219.36 bu/a, 14 yr(s)

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.04 Prices: GMO = \$4.60

Report Date: 10/05/2023

† 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

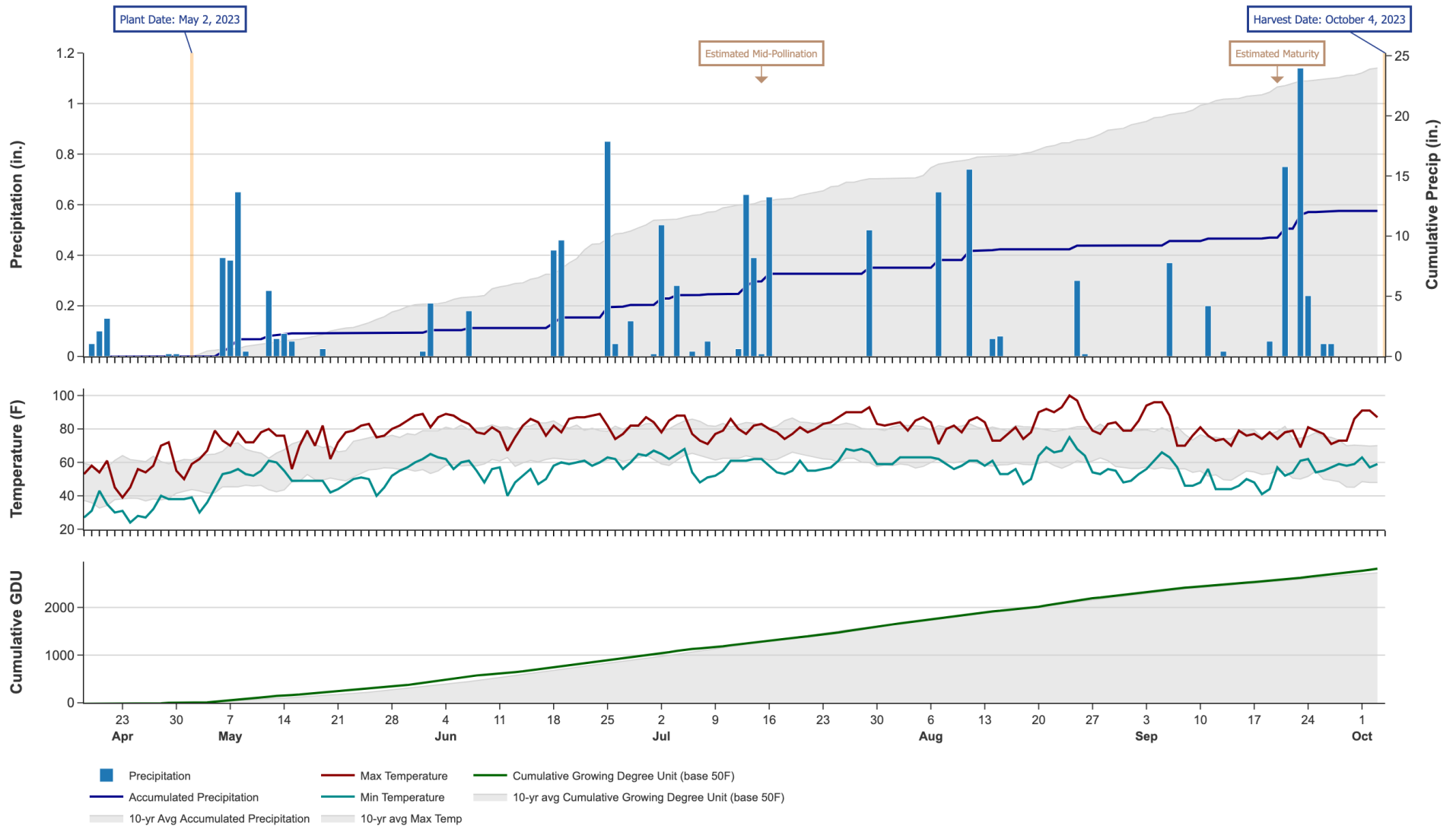
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2023 Corn - Iowa North Central [IANC]

Weather Conditions Summary at WATERLOO, IA

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) (Diff)	0.3 1.4 (-1.1)	1.9 4.6 (-2.7)	2.3 6.6 (-4.3)	3.1 3.9 (-0.8)	1.9 4.2 (-2.3)	2.9 4.4 (-1.5)	0.0 0.6 (-0.6)	12.4 25.7 (-13.3)
GDU Avg (Diff)	21 24 (-3)	396 329 (+66)	596 615 (-19)	631 691 (-60)	640 620 (+19)	481 447 (+33)	68 29 (+38)	2833 2759 (+73)



* 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 - Iowa North Central [IANC]

Early-Season Test Products (60 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Anderson	472SRC	STX	Y*	106	AC,P5
Anderson	528TRE	TRE	Y*	102	AC,P2
Augusta	A1954 PCE	PCE	N	104	CM,C2
Augusta	A1956-PWE	PCE	N	106	AC,P5V
Augusta	A2154	CONV	N	104	CM,C2
Blue River	49M23	CONV	U	103	Treated
Cornelius	C6472TRE	TRE	N	104	AC,P5V,EDC-B
Cornelius	C6578PC	PCE	N	105	AC,P5V
Cornelius	C6645PC	PCE	N	106	AC,P5V
DeKalb	DKC56-65RIB	STX	Y	106	AC,P5V,EDC-EL
Epley	E1530	CONV	N	105	Vi5
Epley	E1540	CONV	N	105	Vi5
FS InVision	FS 5125L1A EZR	AA	Y	101	AC,P5V,EDC-EL
FS InVision	FS 5335P RIB	STXP	Y	103	AC,P5V,EDC-EL
FS InVision	FS 5525VDG RIB	VT2PDG	Y	105	AC,P5V,EDC-EL
FS InVision	FS 5594X RIB	STX	Y	105	AC,P5V,EDC-EL
Golden Harvest	G01B63-AA	AA	Y	101	CM,C5,Va
Golden Harvest	G03B19-AA	AA	Y	103	CM,C5,Va
Hefty	H5254	STX	N	102	HC
Hefty	H5432	VT2P	N	104	HC
Hefty	H5442	VT2P	N	104	HC
Hefty	H5655	TRE	N	106	HC
Integra	5443 DGVT2PRIB	VT2PDG	N	104	AC,P5V,SU+Zn
Integra	5584 PWE	PCE	N	105	AC,P5V
Kruger	K0151SP	STXP	Y	101	AC,P5V
Kruger	K0377SS	STX	Y	103	AC,P5V
Kruger	K0475SP	STXP	Y	104	AC,P5V
Kruger	K0551DP	VT2P	Y	105	AC,P5V
NuTech	63A5AM	AM	Y	103	Lum, L1
NuTech	64B5Q	QR	Y	104	Lum, L1
NuTech	65D3Q	QR	Y	105	Lum, L1
NuTech	66C2Q	QR	Y	106	Lum, L1
NuTech	66D1AM	AM	Y	106	Lum, L1
Pioneer	P0339Q	QR	Y	103	Lum, L1
Pioneer	P0622Q	QR	Y	106	Lum, L1
Prairie Hybrids	3051ORG	CONV	N	105	CM,C2,Vi,Va
Prairie Hybrids	4470	CONV	N	106	MQ
Renk	RK625DGV2P	VT2PDG	N	104	AC,P2
Renk	RK628VT2P	VT2P	N	102	AC,P5V,B300
Renk	RK703PWE	PCE	N	106	Lum,P5V
Renk	RK707TRE	TRE	N	105	AC,P5V,B300
Renk	RK720TRE	TRE	N	106	AC,P2

Company/Brand	Brand/Product	Technology	RIB	RM	Seed Treat.
Rob-See-Co	RC5188-SSP	STXP	Y	101	AC,P5V,EDC-EL
Rob-See-Co	RC5422-PCE	PCE	N	104	CM,C2,Vi,Va
Rob-See-Co	RC5610-PCE	PCE	N	106	CM,C2,Vi,Va
Rob-See-Co	RC5694-VT2P	VT2P	Y	106	AC,P2
Titan Pro	24-05 PCE	PCE	N	105	CM,C2,Vi,Va
Titan Pro	32-06 SSP	STXP	Y	106	AC,P5V
Titan Pro	34-04 DG2P	VT2PDG	Y	104	AC,P2
Titan Pro	36-06	CONV	N	106	CM,C2,Vi,Va
Titan Pro	84-01	CONV	N	101	CM,C2,Vi,Va
Viking	24-01	CONV	U	101	AC,P2
Viking	72-06	CONV	N	106	CM,C2,Sb
Viking	84-04	CONV	N	104	AC,P2
Viking	84-05	CONV	N	105	CM,C2,Sb
Wyffels	W2595	TRE	N	101	AC,P5
Wyffels	W2629	STXP	N	101	AC,P5
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

* 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 - Iowa North Central [IANC]

Full-Season Test Products (54 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Augusta	A1958-DV	DV	N	108	CM,C2
Cornelius	C6847TRE	TRE	N	108	CM,C2,Vi,Va
Cornelius	C7021DP	VT2P	N	110	CM,C2,Vi,Va
Cornelius	C7048SSP	STXP	N	110	AC,P5V,EDC-EL
Epley	E2120	CONV	N	111	Vi5
FS InVision	FS 5935X RIB	STX	Y	109	AC,P5V,EDC-EL
FS InVision	FS 6017V RIB	VT2P	Y	110	AC,P5V,EDC-EL
FS InVision	FS 6025X RIB	STX	Y	110	AC,P5V,EDC-EL
FS InVision	FS 6133VDG RIB	VT2PDG	Y	111	AC,P5V,EDC-EL
FS InVision	FS 6137PC	PCE	N	111	CM,C2,Vi,Va
Golden Harvest	G10B61-AA	AA	Y	110	CM,C5,Va
Golden Harvest	G11V76-D	D	Y	111	AVC,C1,Va
Hefty	H5862	VT2P	N	108	HC
Hefty	H5944	STX	N	109	HC
Hefty	H5952	VT2P	N	109	HC
Hefty	H6064	STX	N	110	HC
Hefty	H6145 TRERIB	TRE	Y	111	HC
Integra	5802 VT2PRIB	VT2P	Y	108	AC,P5V,SU+Zn
Integra	6061 STXRIB	STX	Y	110	AC,P5V,SU+Zn
Integra	CXINT108VT	VT2P	Y	108	AC,P5V,SU+Zn,PT
Kruger	K0783DP	VT2P	Y	107	AC,P5V
Kruger	K0915DD	VT2PDG	Y	109	AC,P5V
Kruger	K0957SP	STXP	Y	109	AC,P5V
Kruger	K1139SS	STX	Y	111	AC,P5V
Kruger	K1191DT	TRE	Y	111	AC,P5V
NuTech	68A9AM	AM	Y	108	Lum, L1
NuTech	68C1Q	QR	Y	108	Lum, L1
NuTech	70A8AM	AM	Y	110	Lum, L1
NuTech	70B4AM	AM	Y	110	Lum, L1
NuTech	70F6Q	QR	Y	110	Lum, L1
Pioneer	P0622Q	QR	Y	106	Lum, L1
Pioneer	P0953AM	AM	Y	109	Lum, L1
Pioneer	P1164AM	AM	Y	111	Lum, L1
Pioneer	P1185AM	AM	Y	111	Lum, L1
Prairie Hybrids	5851	CONV	N	109	AC,P5V
Prairie Hybrids	5883	CONV	N	109	MQ
ProHarvest	79P49 VT2PRIB	VT2P	Y	109	AC,P5V,Va
ProHarvest	79P87 SSRIB	STX	Y	109	AC,P5V,Va
ProHarvest	81P88 TRERIB	TRE	Y	111	AC,P5V,Va
Renk	RK766SSPRO	STXP	N	109	AC,P5V,B300
Renk	RK773TRE	TRE	N	109	AC,P5V,B300
Renk	RK811PWE	PCE	N	111	Lum,P5V

Company/Brand	Brand/Product	Technology	RIB	RM	Seed Treat.
Rob-See-Co	RC5704-SSP	STXP	Y	107	CM,C2,Vi,Va
Rob-See-Co	RC5802-PCE	PCE	Y	108	CM,C2,Vi,Va
Rob-See-Co	RC5824-SS	STX	Y	108	CM,C2,Vi,Va
Rob-See-Co	RC6131-SS	STX	Y	111	CM,C2,Vi,Va
Titan Pro	30-10	CONV	N	110	CM,C2,Vi,Va
Titan Pro	31-10 PCE	PCE	N	110	CM,C2,Vi,Va
Titan Pro	39-08 PCE	PCE	N	108	CM,C2,Vi,Va
Viking	85-09	CONV	U	109	CM,C2,Sb
Wyffels	W5019	STXP	N	107	AC,P5
Wyffels	W5406	VT2P	N	108	AC,P5
Wyffels	W6215	TRE	N	109	CM,C2,Vi,Va
Wyffels	W6886	VT2P	N	111	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
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®
STX	SmartStax®
STXP	SmartStax® Pro with RNAi Technology
TRE	Trecepta®
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,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
AC,P5V,SU+Zn	Acceleron® Poncho 500/Votivo, StepUp SP, StepUp Zn
AC,P5V,SU+Zn,PT	Acceleron® Poncho 500/Votivo, StepUp SP, StepUp Zn with PhycoTerra® ST
AC,P5V,Va	Acceleron® Poncho 500/Votivo, Vayantis®
AVC,C1,Va	Avicta® Complete 1250 with Vayantis®
CM,C2	CruiserMaxx® 250
CM,C2,Sb	CruiserMaxx® 250, SabrEx Innoculant
CM,C2,Vi,Va	CruiserMaxx® 250 with Vibrance, Vayantis®
CM,C5,Va	CruiserMaxx® 500 with Vayantis®
HC	Hefty Complete
Lum, L1	LumiGEN, Lumisure 1250
Lum,P5V	LumiGEN™ Poncho 500/Votivo
MQ	Maxim Quattro
Treated	Treated seed, unspecified
Vi5	Vibrance® Cinco

* Seed treatments may include unspecified plant health promoting components.