

Test by: NewVenture, LLC Ellendale, MN

2021 Corn Grain Top 30 Harvest Report

Minnesota East Central [MNEC] ROYALTON, MN
Kenny Kasella, Morrison County, MN 56315

All-Season Test	86 - 95 Day CRM B2021MNEC02
Top 30 of 43	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybeans, Rye Cover Crop / Roundup, Medal Ec, Sonic, Miravis Neo, Warrior
SOIL DESCRIPTION:	Pomroy Loamy Fine Sand loamy sand, mod. well drained, irrigated
SOIL CONDITION:	No-Till, very high P, very high K, 5.9 pH, 1.7% OM, 8.1 CEC
PEST MANAGEMENT:	Mad Dog, Sure Start, Roundup
FERTILITY - Applied N:	110 Sidedress, 5000 gallons of sow manure was also spring applied
Applied N-P-K (units):	110-0-50
SEEDED - RATE - ROW:	May 5 35.0 /A 30" spacing
HARVESTED - STAND:	Oct 12 32.4 /A

TEST COMMENTS:

This is a very uniform and sandy site. Ken told me that the irrigator only shut off for two days between June 12 and the middle of August. The corn was very tall with very large ears. There were some areas of severe lodging and it was all stalk lodging. Overall a very good plot. Thank you Ken for hosting again this year.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Dahlman	R48-28VT2PRIB ↗	VT2P	95	258.7	20.3	0	31.4	1389	1
Renk	RK312VT2PRIB ↗	VT2P	90	257.8	20.0	1	31.9	1386	2
Renk	RK297VT2P ↗	VT2P	89	256.0	20.0	0	32.4	1376	3
Hefty	H4322 RIB ↗	VT2P	93	254.4	20.3	0	32.4	1366	4
Dairyland	DS-3550AM ↗	AM	95	254.3	20.2	3	32.9	1365	5
Renk	RK429-3220A ↗	3220A	93	253.5	20.2	0	34.8	1361	6
Federal	4520 VT2PDG ↗	VT2PDG	95	252.6	20.3	1	33.9	1356	8
Hefty	H4132 ↗	VT2P	91	251.5	19.2	0	32.4	1357	7
Federal	4300 VT2PRIB ↗	VT2P	93	251.4	20.0	0	31.9	1351	9
Pioneer	P9492AM GC ↗	AM	94	251.3	20.0	0	31.9	1351	10
Gold Country	90-07R2P ↗	VT2P	90	250.0	19.4	1	33.4	1348	11
Dahlman	R47-24VT2PRIB ↗	VT2P	94	249.9	20.5	0	31.9	1340	12
Hefty	H4052 ↗	VT2P	90	247.8	19.7	0	33.4	1334	13
Augusta	A2541-3110 ↗	3110	91	247.4	19.9	3	31.9	1330	15
Dyna-Gro	D27VC87 ↗	VT2P	87	247.0	19.2	0	32.9	1332	14
Augusta	A2545-5122-EZ ↗	5122	95	246.9	20.4	3	31.0	1324	16
Renk	RK485DGV2P ↗	VT2PDG	94	246.6	20.5	0	33.4	1322	19
Hefty	H4332 RIB ↗	VT2P	93	246.0	19.9	1	31.9	1323	18
Anderson	742VT2P ↗	VT2P	92	245.9	19.7	0	31.4	1324	17
Enestvedt	E640DP RIB ↗	VT2P	94	245.2	19.8	0	33.9	1319	20
Gold Country	95-03R2P ↗	VT2P	95	243.3	20.2	0	29.0	1307	21
Enestvedt	E612RR ↗	RR2	92	242.9	19.8	0	32.9	1307	22
Dairyland	DS-3162Q ↗	QR	91	242.2	20.1	2	32.4	1301	24
Hefty	H3712 RIB ↗	VT2P	87	241.9	19.4	1	31.4	1304	23
Anderson	786VT2P ↗	VT2P	95	240.1	20.2	0	32.9	1289	25
Gold Country	86-12R2P ↗	VT2P	86	239.9	20.3	0	32.9	1287	26
Gold Country	93-41R2P ↗	VT2P	93	238.9	19.7	0	32.9	1286	27
Golden Harvest	G90S99-5222 EZR ↗	5222	90	238.7	20.7	3	32.9	1279	28
Latham	LH 4517 VT2P RIB GC ↗	VT2P	95	237.2	20.3	0	31.9	1273	29
Dairyland	DS-3366AM ↗	AM	93	234.3	19.6	10	33.9	1262	30

Averages = **238.4** **19.9** **4** **32.4** **1282**

LSD (0.10) = 16.4 0.4 9

LSD (0.25) = 8.6 0.2 5

C.V. = 6.5

Historic yield: 211.93 bu/a, 2 yr(s)

Ed Dahle

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Yield & Income Factors:

Base Moisture = 15.0%

Shrink = 1.3

Drying = \$0.025

Prices: GMO = \$5.50

Report Date: 10/13/2021

† 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. ↗ New! Links to full product yield results at www.firstseedtests.com

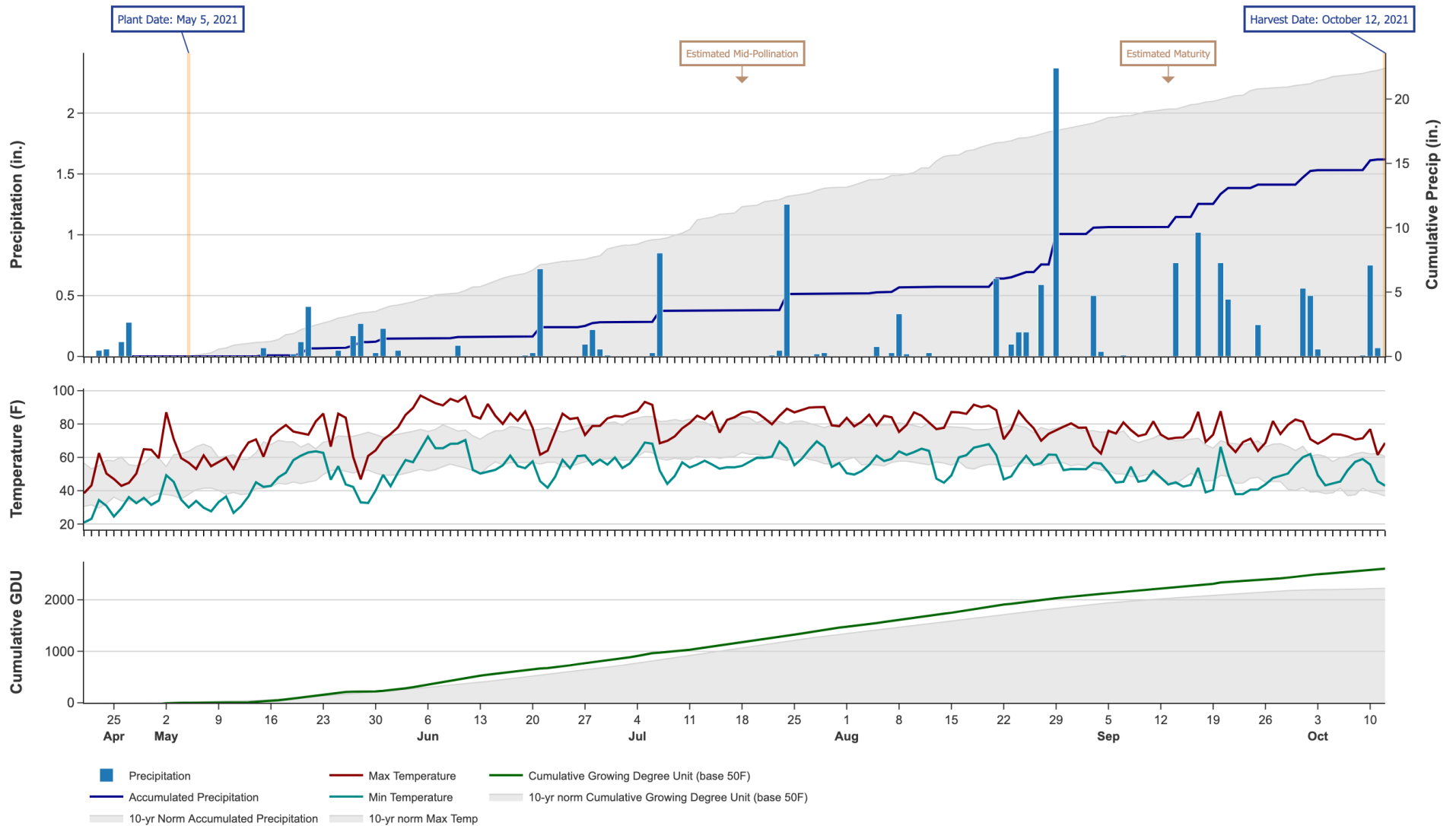
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Weather Conditions Summary at ROYALTON, MN

Monthly Total	Apr*	May	Jun	Jul	Aug	Sep	Oct*	Total
Precip (in) Normal (Diff)	0.5 1.0 (-0.5)	1.4 4.2 (-2.8)	1.3 4.6 (-3.3)	2.2 4.8 (-2.5)	4.6 4.7 (-0.1)	3.8 3.2 (+0.6)	1.9 1.4 (+0.6)	15.8 23.9 (-8.1)
GDU Normal (Diff)	7 0 (+7)	261 228 (+32)	590 468 (+121)	637 637 (0)	603 537 (+65)	387 318 (+68)	153 37 (+115)	2638 2228 (+409)



* 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.

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All-Season Test Products (43 Total)

Company/Brand	Product/Brand	Technology	RIB	RM	Seed Treat.
Anderson	742VT2P	VT2P	N	92	AC,P2V
Anderson	786VT2P	VT2P	N	95	AC,P2V
Augusta	A2541-3110	3110	N	91	CM,C2
Augusta	A2545-5122-EZ	5122	Y	95	CM,C2
Dahlman	R45-25VT2PRIB	VT2P	Y	90	AC,P2
Dahlman	R47-24VT2PRIB	VT2P	Y	94	AC,P2
Dahlman	R48-28VT2PRIB	VT2P	Y	95	AC,P2
Dairyland	DS-2828AM	AM	Y	88	Lum
Dairyland	DS-3022AM	AM	Y	90	Lum,P1V
Dairyland	DS-3162Q	QR	Y	91	Lum,P1V
Dairyland	DS-3193AM	AM	Y	91	Lum,P1V
Dairyland	DS-3366AM	AM	Y	93	Lum,P1V
Dairyland	DS-3550AM	AM	Y	95	Lum,P1V
Dyna-Gro	D27VC87	VT2P	N	87	AC,P5V
Enestvedt	E612RR	RR2	N	92	CM,C2,Vi
Enestvedt	E640DP RIB	VT2P	Y	94	AC250
Federal	4300 VT2PRIB	VT2P	Y	93	AC,P2,MAG
Federal	4520 VT2PDG	VT2PDG	N	95	AC,P5V,MAG
Gold Country	86-12R2P	VT2P	N	86	AC,P2,B360
Gold Country	90-07R2P	VT2P	N	90	AC,P5,B360
Gold Country	93-41R2P	VT2P	N	93	AC,P5,B360
Gold Country	94-44RSS	STX	N	94	AC,P5,B360
Gold Country	95-03R2P	VT2P	N	95	AC,P5,B360
Golden Harvest	G90S99-5222 EZR	5222	Y	90	AVC,C2,Vi
Golden Harvest	G91V51-5222A EZR	5222A	Y	91	AVC,C2,Vi
Hefty	H3632 RIB	VT2P	Y	86	HC
Hefty	H3712 RIB	VT2P	Y	87	HC
Hefty	H3922 RIB	VT2P	Y	89	HC
Hefty	H4032 RIB	VT2P	Y	90	HC
Hefty	H4052	VT2P	N	90	HC
Hefty	H4132	VT2P	N	91	HC
Hefty	H4222 RIB	VT2P	Y	92	HC
Hefty	H4322 RIB	VT2P	Y	93	HC
Hefty	H4332 RIB	VT2P	Y	93	HC
Hefty	H4522 RIB	VT2P	Y	95	HC
Latham	LH 4517 VT2P RIB GC	VT2P	Y	95	AC,P2
Pioneer	P9188AMXT GC	AMXT	Y	91	Lum
Pioneer	P9492AM GC	AM	Y	94	Lum
Renk	RK297VT2P	VT2P	N	89	AC,P5V
Renk	RK312VT2PRIB	VT2P	Y	90	AC,P2
Renk	RK315VT2P	VT2P	N	90	AC,P2
Renk	RK429-3220A	3220A	N	93	CM,C2

Company/Brand	Brand/Product	Technology	RIB	RM	Seed Treat.
Renk	RK485DGV2P	VT2PDG	N	94	AC,P5V

* 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

[^] 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

3110	Agrisure® Viptera® 3110 (Vip, CB,LL,GT)
3220A	Agrisure® Artesian® Viptera® 3220 (Vip,CB,HX,LL,GT)
5122	Agrisure® Duracade™ 5122
5222	Agrisure® Duracade™ 5222
5222A	Agrisure® Duracade™ Artesian® 5222
AM	Optimum® AcreMax®
AMXT	Optimum® AcreMax® Xtreme
QR	Qrome™
RR2	Roundup Ready® 2 Corn
STX	SmartStax®
VT2P	Genuity® VT Double PRO®
VT2PDG	Genuity® VT Double PRO® DroughtGard®

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

Corn Seed Treatments*

NA	Not Available
AC250	Acceleron® 250
AC,P2	Acceleron® 250
AC,P2,B360	Acceleron® 250 with BioRise™ B-360 ST
AC,P2,MAG	Acceleron® 250, Federal ArmourGuard
AC,P2V	Acceleron® Poncho 250/Votivo
AC,P5,B360	Acceleron® 500 with BioRise™ B-360 ST
AC,P5V	Acceleron® Poncho 500/Votivo
AC,P5V,MAG	Acceleron® Poncho 500/Votivo, Federal ArmourGuard
AVC,C2,Vi	Avicta® Complete 250, Vibrance®
CM,C2	CruiserMaxx® 250
CM,C2,Vi	CruiserMaxx® 250 with Vibrance
HC	Hefty Complete
Lum	LumiGEN™ (Corteva Agriscience)
Lum,P1V	LumiGEN™ Poncho 1250/Votivo

* Seed treatments may include unspecified plant health promoting components.