

Test by: Northland F.I.R.S.T., LLC Moorhead, MN

## 2020 Corn Grain Top 30 Harvest Report

Red River South North Dakota & Minnesota [RRSO]  
WHEATON, MN

Chester Raguse, Traverse County, MN 56583

<b>Early-Season Test</b>	85 - 90 Day CRM B2020RRSO1a
<b>Top 30 of 44</b>	For Gross Income (Sorted by Yield) Average of (4) Replications
<b>PREV. CROP/HERB:</b>	Soybean / Liberty
<b>SOIL DESCRIPTION:</b>	Wheatville silt loam, mod. poorly drained, non-irrigated
<b>SOIL CONDITION:</b>	Conventional W/ Fall Till, very low P, medium K, 8.0 pH, 4.0% OM, 30.6 CEC
<b>PEST MANAGEMENT:</b>	Armezon Pro
<b>FERTILITY - Applied N:</b>	120 Fall
<b>Applied N-P-K (units):</b>	120-40-50
<b>SEEDED - RATE - ROW:</b>	May 2 34.5 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 15 33.7 /A

### TEST COMMENTS:

*This was our second plot planted, and it was a few days after Chester planted the rest of the field. The local Co-op was unable to apply nitrogen this summer, so the plot did not receive the same nutrients as the surrounding field which cut yields significantly. The surrounding field yielded much better because of the fertilizer difference. There was some green snap noticed throughout the plot with some lodging. The early-test had to be rejected due to high variance.*

Company/Brand	Product/Brand	Yield	Moisture %	Lodging %	Stand	Gross Income	Rank
		bu	%	%	/a (2020)	\$/bu	
NEA	3880	188.8	12.5	3	33.8	488	1
NEA	8028V2TP	188.4	12.8	1	33.8	488	2
LATHAM	LH 3807 VTOP RB	188.3	12.3	0	33.8	488	3
HEFTY	H07V2TOPRB	188.2	12.4	1	33.4	482	4
DARTLAND	08-27H0	187.2	12.5	2	33.7	478	5
INTEGRA	3808 VTOPRB	187.2	12.8	3	34.4	472	6
DANLARK	8028V2TOPRB	187.0	13.0	1	33.7	467	7
DARTLAND	08-2808H	187.4	13.0	2	34.4	463	8
THUNDER	7888 VTOP	187.8	13.1	1	34.4	461	9
PROCEED	170 VTOPRB	187.8	12.5	0	33.7	460	10
NEA	2881	187.8	12.8	1	33.8	458	11
NE BRAND	8028V2TOPRB	187.8	12.8	1	33.8	448	12
HEFTY	H07V2TOPRB	187.8	13.1	1	33.8	448	13
ROB-BEE CO	8028V2	187.8	13.4	3	33.8	448	14
ENERVEST	8028V2	187.8	13.2	1	33.8	442	15
PROCEED	170 VTOPRB	186.8	12.8	0	33.8	440	16
DANLARK	8028V2TOPRB	186.2	12.8	2	33.8	438	17
NEA	8028V2TP	185.8	13.4	1	34.4	435	18
PIONEER	3888V2	185.1	12.8	4	34.4	433	19
THUNDER	7887 VTOP	182.7	12.8	1	33.4	431	20
GOLDEN HARVEST	08-27H0	182.4	13.8	2	33.8	430	21
NEA	3888	180.8	13.0	2	33.3	425	22
NE BRAND	8028V2TOPRB	180.4	13.7	0	33.8	423	23
INTEGRA	3808 VTOP	180.8	13.0	2	33.8	422	24
HEFTY	H07V2TOP	180.7	12.2	0	34.4	422	25
NE BRAND	8028V2TOPRB	180.5	12.8	3	33.5	421	26
THUNDER	7888 VTOP	180.0	13.2	2	33.3	419	27
LATHAM	LH 3807 VTOP RB	180.8	13.0	3	33.4	418	28
NEA	8028V2TOPRB	177.8	13.0	1	34.0	414	29
ROB-BEE CO	8028V2	177.2	14.3	3	34.4	413	30
DUPLICATE	08-27H0	173.3	13.3	1	33.7	399	41

REJECTED

Averages =	<b>131.6</b>	<b>13.0</b>	<b>2</b>	<b>33.7</b>	<b>429</b>
LSD (0.10) =	ns	0.3	ns		
LSD (0.25) =	ns	0.2	ns		
C.V. =	12.4				Historic yield: 186.7 bu/a, 6 yr(s)

Luke Brendemuhl  
luke.brendemuhl@firstseedtests.com, (218) 790-4497

**Yield & Income Factors:** Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$3.25

Report Date: 10/16/2020

Additional reports available at [www.firstseedtests.com](http://www.firstseedtests.com)

† 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

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## 2020 Corn Grain Top 30 Harvest Report

Red River South North Dakota & Minnesota [RRSO]  
WHEATON, MN

Chester Raguse, Traverse County, MN 56583

**Full-Season Test** 91 - 95 Day CRM  
B2020RRSO01b

**Top 30 of 47** For Gross Income  
(Sorted by Yield)  
Average of (3) Replications

**PREV. CROP/HERB:** Soybean / Liberty

**SOIL DESCRIPTION:** Wheatville silt loam, mod. poorly  
drained, non-irrigated

**SOIL CONDITION:** Conventional W/ Fall Till, very  
low P, medium K, 8.0 pH, 4.0%  
OM, 30.6 CEC

**PEST MANAGEMENT:** Armezon Pro

**FERTILITY - Applied N:** 120 Fall

**Applied N-P-K (units):** 120-40-50

**SEEDED - RATE - ROW:** May 2 34.5 /A 30" spacing

**HARVESTED - STAND:** Oct 15 33.6 /A

### TEST COMMENTS:

*This was our second plot planted, and it was a few days after Chester planted the rest of the field. The local Co-op was unable to apply nitrogen this summer, so the plot did not receive the same nutrients as the surrounding field which cut yields significantly. The surrounding field yielded much better because of the fertilizer difference. There was some green snap noticed throughout the plot with some lodging. The early-test had to be rejected due to high variance.*

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank	
LATHAM	LH 4242 VT2P RIB	VT2P,B	92	<b>170.4</b>	14.6	1	33.9	554	1	
THUNDER	T6595 VT2P	VT2P,B	95	<b>165.3</b>	14.7	3	33.9	537	2	
GOLDEN HARVEST	G91V51-3110A	3110A	91	<b>160.8</b>	14.2	1	33.4	523	3	
ENESTVEDT	E612RR	RR2	92	159.9	14.4	3	33.4	520	4	
RENK	RK561DGVT2PRIB	VT2PDG,B	95	159.7	14.4	1	33.9	519	5	
RENK	RK568VT2P	VT2P,B	95	158.5	14.7	2	32.9	515	6	
THUNDER	T6993 VT2P	VT2P,B	93	158.3	14.2	1	33.9	514	7	
RENK	RK433VT2PRIB	VT2P,B	92	157.1	14.9	2	34.4	511	8	
PROSEED	1794 VT2PRIB	VT2P,B	94	156.1	14.1	2	32.9	507	9	
DYNA-GRO	D35VC35	VT2P	95	155.6	13.1	2	33.4	506	10	
HEFTY	H4332VT2PRIB	VT2P,B	93	154.8	13.7	0	32.9	503	11	
INTEGRA	4311 VT2P	VT2P	93	154.1	14.4	1	33.4	501	12	
INTEGRA	4509 VT2PRIB	VT2P,B	95	153.1	14.3	4	33.9	498	13	
DAIRYLAND	DS-3366Q	QR,B	93	152.7	13.5	1	34.4	496	14	
ROB-SEE-CO	INNOTECH IC4166	3110A	91	152.5	15.0	2	33.4	496	15	
NK BRAND	NK9227-5222A-EZR	5222A,B	92	150.4	14.6	2	33.9	489	16	
THUNDER	T6992 VT2P	VT2P,B	92	149.6	13.2	3	33.4	486	17	
THUNDER	T6094 VT2P	VT2P,B	94	148.8	13.5	1	33.4	484	18	
DAHLMAN	R48-28VT2PRIB	VT2P,B	95	147.4	14.8	1	33.4	479	19	
LATHAM	LH 4375 VT2P RIB	VT2P,B	93	147.3	13.0	2	33.4	479	20	
DAIRYLAND	DS-3550AM	AM,B	95	147.2	15.0	1	33.9	478	21	
ROB-SEE-CO	RC4427	3220,B	94	145.2	13.9	3	33.9	472	22	
DYNA-GRO	D32VC41	VT2P	92	144.8	13.2	3	32.9	471	23	
NK BRAND	NK9653-5222-EZR	5222,B	96	144.5	13.9	0	33.9	470	24	
DAHLMAN	R47-26VT2PRIB	VT2P,B	94	143.9	13.5	1	33.4	468	25	
ROB-SEE-CO	RC4535	3110	95	143.7	13.6	1	33.9	467	26	
INTEGRA	4119 VT2PRIB	VT2P,B	91	143.1	13.7	2	32.9	465	27	
PIONEER	P9211Q GC	QR,B	92	142.3	13.6	0	33.9	462	28	
ROB-SEE-CO	RC4343	3220A,B	93	141.9	14.8	3	32.9	461	29	
THUNDER	T6791 VT2P	VT2P,B	91	141.4	13.1	1	33.9	460	30	
DEKALB	DKC40-78RIB CK	VT2P,B	90	132.7	12.6	1	33.9	431	38	
				Averages =	<b>144.1</b>	<b>13.8</b>	<b>2</b>	<b>33.6</b>	<b>468</b>	
				LSD (0.10) =	16.0	0.7	ns			
				LSD (0.25) =	8.4	0.4	ns			
				C.V. =	10.5					Historic yield: 186.7 bu/a, 6 yr(s)

Luke Brendemuhl

luke.brendemuhl@firstseedtests.com, (218) 790-4497

### Yield & Income Factors:

Base Moisture = 15.0%

Shrink = 1.3

Drying = \$0.025

Prices: GMO = \$3.25

Report Date: 10/16/2020

Additional reports available at [www.firstseedtests.com](http://www.firstseedtests.com)

† 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

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## 2020 Corn - Red River South North Dakota & Minnesota [ RRSO ]

### Early-Season Test Products (44 Total)

Company/Brand	Product/Brand	Technology	RM	Seed Treat.
DAHLMAN	R45-25VT2PRIB	VT2P,B	90	AC250
DAHLMAN	R45-28VT2PRIB	VT2P,B	90	AC250
DAIRYLAND	DS-2505Q	QR	85	Lum,P1V
DAIRYLAND	DS-2716Q	QR,B	87	Lum,P1V
DAIRYLAND	DS-3030AM	AM,B	90	Lum,P1V
DEKALB	DKC40-78RIB CK	VT2P,B	90	None
ENESTVEDT	E850DP RIB	VT2P,B	85	AC,P2
GOLDEN HARVEST	G84J92-3120A-EZR	3120A,B	86	AVC,C2,Vi
GOLDEN HARVEST	G85Z56-3220-EZR	3220,B	85	AVC,C2,Vi
GOLDEN HARVEST	G89A09-3120-EZR	3120,B	89	AVC,C2,Vi
HEFTY	H3442VT2P	VT2P	84	HC
HEFTY	H3622VT2PRIB	VT2P,B	86	HC
HEFTY	H3632VT2PRIB	VT2P,B	86	HC
HEFTY	H3712VT2PRIB	VT2P,B	87	HC
HEFTY	H4032VT2PRIB	VT2P,B	90	HC
INTEGRA	3629 VT2PRIB	VT2P,B	86	AC,P5V,St,SU
INTEGRA	3718 VT2PRIB	VT2P,B	87	AC,P2V,St,SU
INTEGRA	3839 VT2PRIB	VT2P,B	88	AC,P2V,St,SU
INTEGRA	4041 VT2P	VT2P	90	AC,P5V,St,SU
LATHAM	LH 3695 VT2P RIB	VT2P,B	86	AC250
LATHAM	LH 3827 VT2P RIB	VT2P,B	88	AC250
LATHAM	LH 3937 VT2P RIB	VT2P,B	89	AC250
NK BRAND	NK8519-3220-EZR	3220,B	85	AVC,C2,Vi
NK BRAND	NK8519-5222-EZR	5222,B	85	AVC,C2,Vi
NK BRAND	NK8618-3120A-EZR	3120A,B	86	AVC,C2,Vi
NK BRAND	NK8920-3120-EZR	3120,B	89	AVC,C2,Vi
NK BRAND	NK8920-5122-EZR	5122,B	89	AVC,C2,Vi
PIONEER	P8989AM GC	AM,B	89	None
PROSEED	1787 VT2PRIB	VT2P,B	87	None
PROSEED	1790 VT2PRIB	VT2P,B	90	None
REA	2B851	VT2P,B	85	AC,P5,B360
REA	2B861	VT2P,B	86	AC,P2,B360
REA	3B903	VT2P,B	90	AC,P5,B360
RENK	RK278VT2P	VT2P,B	87	AC,P2
RENK	RK312VT2PRIB	VT2P,B	90	AC,P2
RENK	RK315VT2P	VT2P	90	AC,P2

Company/Brand	Brand/Product	Technology	RM	Seed Treat.
ROB-SEE-CO	RC3601	3011A	86	CM,C2
ROB-SEE-CO	RC4016	3120,B	90	CM,C2
THUNDER	T6085 VT2P	VT2P,B	85	AC,P2
THUNDER	T6185 VT2P	VT2P,B	85	AC,P2
THUNDER	T6190 VT2P	VT2P,B	90	AC,P2
THUNDER	T6888 VT2P	VT2P,B	88	AC,P2
THUNDER	T6987 VT2P	VT2P,B	87	AC,P2
TITAN PRO	82-90 2P	VT2P,B	90	AC250

2020 Corn - Red River South North Dakota & Minnesota [ RRSO ]



Full-Season Test Products (47 Total)

Company/Brand	Product/Brand	Technology	RM	Seed Treat.
DAHLMAN	R47-26VT2PRIB	VT2P,B	94	AC250
DAHLMAN	R48-28VT2PRIB	VT2P,B	95	AC250
DAIRYLAND	DS-3162Q	QR,B	91	Lum,P1V
DAIRYLAND	DS-3193AM	AM,B	91	Lum,P1V
DAIRYLAND	DS-3345AM	AM,B	93	Lum,P1V
DAIRYLAND	DS-3366Q	QR,B	93	Lum,P1V
DAIRYLAND	DS-3550AM	AM,B	95	Lum,P5V
DEKALB	DKC40-78RIB CK	VT2P,B	90	None
DYNA-GRO	D32VC41	VT2P	92	AC,P5V,EDC-B
DYNA-GRO	D35VC35	VT2P	95	AC,P5V,EDC-B
ENESTVEDT	E612RR	RR2	92	CM,MQ,C2
GOLDEN HARVEST	G91V51-3110A	3110A	91	AVC,C2,Vi
GOLDEN HARVEST	G96R61-5222-EZR	5222,B	96	AVC,C2,Vi
HEFTY	H4102VT2PRIB	VT2P,B	91	HC
HEFTY	H4132VT2PRIB	VT2P,B	91	HC
HEFTY	H4322VT2PRIB	VT2P,B	93	HC
HEFTY	H4324SSRIB	STX,B	93	HC
HEFTY	H4332VT2PRIB	VT2P,B	93	HC
INTEGRA	4119 VT2PRIB	VT2P,B	91	AC,P2V,St,SU
INTEGRA	4311 VT2P	VT2P	93	AC,P5V,St,SU
INTEGRA	4509 VT2PRIB	VT2P,B	95	AC,P2V,St,SU
LATHAM	LH 4242 VT2P RIB	VT2P,B	92	AC250
LATHAM	LH 4375 VT2P RIB	VT2P,B	93	AC250
LATHAM	LH 4454 VT2P RIB	VT2P,B	94	AC250
LATHAM	LH 4517 VT2P RIB	VT2P,B	95	AC250
NK BRAND	NK9175-3110A	3110A	91	AVC,C2,Vi
NK BRAND	NK9227-5222A-EZR	5222A,B	92	AVC,C2,Vi
NK BRAND	NK9535-3220-EZR	3220,B	95	AVC,C2,Vi
NK BRAND	NK9653-5222-EZR	5222,B	96	AVC,C5,Vi
PIONEER	P9188AMXT GC	AMXT	91	None
PIONEER	P9211Q GC	QR,B	92	None
PROSEED	1794 VT2PRIB	VT2P,B	94	None
PROSEED	2091 VT2PRIB	VT2P,B	91	None
RENK	RK433VT2PRIB	VT2P,B	92	AC,P2
RENK	RK499VT2P	VT2P	94	AC,P2
RENK	RK561DGV2PRIB	VT2PDG,B	95	AC,P2

Company/Brand	Brand/Product	Technology	RM	Seed Treat.
RENK	RK568VT2P	VT2P,B	95	AC,P2
ROB-SEE-CO	INNOTECH IC4166	3110A	91	AVC,C2
ROB-SEE-CO	RC4343	3220A,B	93	CM,C2
ROB-SEE-CO	RC4427	3220,B	94	CM,C2
ROB-SEE-CO	RC4535	3110	95	CM,C2
THUNDER	T6094 VT2P	VT2P,B	94	AC,P2
THUNDER	T6595 VT2P	VT2P,B	95	AC,P2
THUNDER	T6791 VT2P	VT2P,B	91	AC,P2
THUNDER	T6992 VT2P	VT2P,B	92	AC,P2
THUNDER	T6993 VT2P	VT2P,B	93	AC,P2
TITAN PRO	82-95 2P	VT2P,B	95	AC250

## Footnotes and Abbreviations Descriptions

### Brand Footnotes

<sup>^</sup> 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\*

3011A	Agrisure® Artesian® 3011A (CB,RW,LL,GT)	B	Blend, Refuge in a Bag (RIB) or EZ-Refuge
3110	Agrisure® Viptera® 3110 (Vip, CB,LL,GT)	QR	Qrome™
3110A	Agrisure® Artesian® Viptera® 3110 (Vip, CB,LL,GT)	RR2	Roundup Ready® 2 Corn
3120	Agrisure® 3120 (CB,HX,LL,GT)	STX	SmartStax®
3120A	Agrisure® Artesian® 3120 (CB,HX,LL,GT)	VT2P	Genuity® VT Double PRO®
3220	Agrisure® Viptera® 3220 (Vip,CB,HX,LL,GT)	VT2PDG	Genuity® VT Double PRO® DroughtGard®
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		

\* The refuge component genetics may vary in a refuge blend seed product.

### Corn Seed Treatments\*\*

AC250	Acceleron 250	Lum,P1V	Lumigen Poncho 1250/Votivo
AC,P2	Acceleron, Poncho 250	Lum,P5V	Lumigen Poncho 500/Votivo
AC,P2,B360	Acceleron Poncho 250 with BioRise™ B-360 ST		
AC,P2V,St,SU	Acceleron Poncho 250 Votivo, Stamina, StepUp		
AC,P5,B360	Acceleron Poncho 500 with BioRise™ B-360 ST		
AC,P5V,EDC-B	Acceleron, Basic Poncho 500/Votivo with Enhanced Disease Control		
AC,P5V,St,SU	Acceleron Poncho 500/Votivo, Stamina, StepUp		
AVC,C2	Avicta Complete 250		
AVC,C2,Vi	Avicta Complete 250, Vibrance		
AVC,C5,Vi	Avicta Complete 500, Vibrance		
CM,C2	CruiserMaxx 250		
CM,MQ,C2	CruiserMaxx® Cruiser® 250, Maxim® Quattro		
HC	Hefty Complete		

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