

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

## 2019 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 B2019RRSO02a
<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>	Hamerly clay loam, mod. poor drained, non-irrigated
<b>SOIL CONDITION:</b>	Conventional W/ Fall Till, low P, medium K, 7.7 pH, 4.5% OM, 22.9 CEC
<b>PEST MANAGEMENT:</b>	Callisto, Atrazine
<b>FERTILITY - Applied N:</b>	16.0 Fall, 45 Spring, 150 Sidedress
<b>Applied N-P-K (units):</b>	211-78-84
<b>SEEDED - RATE - ROW:</b>	May 10 34.5 /A 30" spacing
<b>HARVESTED - STAND:</b>	Oct 29 33.7 /A

### TEST COMMENTS:

The plot was planted shortly after the surrounding field into great conditions on a tiled piece of ground. Emergence of the plot and surrounding crop in that part of the field was excellent. Chester did mention that there were areas of replant around the Wheaton area this spring. Rainfall was above average this year, with September and early October being exceptionally wet, delaying harvest for the area. At harvest, the cobs were large in size with some slight lodging noticed on the early season hybrids.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
DAIRYLAND	DS-3030AM	AM	90	<b>186.4</b>	22.5	1	33.3	569	1
REA	3B902	VT2P,B	90	<b>185.1</b>	22.8	1	33.7	564	2
NK BRAND	NK8881-3120A-EZR	3120,A,B	88	<b>184.9</b>	22.6	2	33.3	564	3
GOLDEN HARVEST	G88F37-3120A-EZR	3120,A,B	88	<b>183.5</b>	22.8	1	33.7	559	4
REA	3A891	STX,B	89	<b>183.4</b>	22.7	1	34.0	559	5
PROSEED	1790VT2PRIB	VT2P,B	90	<b>183.0</b>	23.7	0	33.7	553	7
LATHAM	LH3937VT2PRIB	VT2P,B	89	182.6	23.4	0	34.4	554	6
INTEGRA	3839	VT2P,B	88	181.0	23.0	2	32.9	550	9
STINE	9212-10	3010,A	89	181.0	22.6	1	33.7	552	8
RENK	RK408VT2P	VT2P,B	90	180.2	22.9	1	34.0	548	10
TITAN PRO	82-90 2P	VT2P,B	90	177.6	22.6	1	33.3	542	11
HEFTY	H3622VT2PRIB	VT2P,B	86	177.0	23.2	1	33.7	537	13
HEFTY	H4032VT2P	VT2P	90	176.8	22.9	1	34.0	538	12
NK BRAND	NK8618-3120A-EZR	3120,A,B	86	176.3	22.9	0	32.9	537	14
HEFTY	H3922VT2PRIB	VT2P,B	89	175.7	22.9	1	34.0	534	16
NK BRAND	NK8920-3120-EZR	3120,B	89	175.5	22.7	1	34.4	535	15
THUNDER	6090 3120	3120,B	90	175.1	22.7	1	33.3	534	17
LATHAM	EX 3945 VT2P	VT2P	89	174.9	22.5	1	34.0	534	18
GOLDEN HARVEST	G85Z56-3220-EZR	3220,B	85	173.3	22.3	3	34.0	530	19
RENK	RK312VT2P	VT2P	90	172.7	22.7	5	34.0	526	20
RENK	RK278VT2P	VT2P,B	87	171.8	22.2	1	33.7	526	21
MUSTANG	3287VT2PRIB GC	VT2P,B	87	171.6	22.9	1	33.4	522	23
DAIRYLAND	DS-6686	GT	87	171.1	22.8	1	34.0	521	24
DAIRYLAND	DS-2989Z	3120	89	170.8	22.8	0	34.0	520	25
THUNDER	6986 VT2P	VT2P,B	86	170.6	22.1	3	33.3	523	22
THUNDER	6888 VT2P	VT2P,B	88	170.4	22.6	2	33.3	520	26
HEFTY	H3632VT2P	VT2P	86	169.0	22.4	1	32.9	516	28
RENK	RK287VT2P	VT2P,B	87	167.8	22.0	3	34.0	514	29
INTEGRA	CX911090	VT2P	90	167.4	22.2	2	33.9	512	30
THUNDER	6987 VT2P	VT2P,B	87	166.4	22.0	2	34.4	510	31
DEKALB	DKC40-78RIB CK	VT2P,B	90	169.2	21.7	1	33.7	520	27
				Averages =	<b>171.8</b>	<b>22.6</b>	<b>1</b>	<b>33.7</b>	<b>524</b>
				LSD (0.10) =	11.0	ns	ns		
				LSD (0.25) =	5.8	ns	ns		
				C.V. =	7.0				

Luke Brendemuhl

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

**Yield & Income Factors:** Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$3.24

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## 2019 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  
B2019RRSO02b

**Top 30 of 40** For Gross Income  
(Sorted by Yield)  
Average of (4) Replications

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

**SOIL DESCRIPTION:** Hamerly clay loam, mod. poor  
drained, non-irrigated

**SOIL CONDITION:** Conventional W/ Fall Till, low P,  
medium K, 7.7 pH, 4.5% OM, 22.9  
CEC

**PEST MANAGEMENT:** Callisto, Atrazine

**FERTILITY - Applied N:** 16.0 Fall, 45 Spring, 150  
Sidedress

**Applied N-P-K (units):** 211-78-84

**SEEDED - RATE - ROW:** May 10 34.5 /A 30" spacing

**HARVESTED - STAND:** Oct 29 33.6 /A

### TEST COMMENTS:

The plot was planted shortly after the surrounding field into great conditions on a tiled piece of ground. Emergence of the plot and surrounding crop in that part of the field was excellent. Chester did mention that there were areas of replant around the Wheaton area this spring. Rainfall was above average this year, with September and early October being exceptionally wet, delaying harvest for the area. At harvest, the cobs were large in size with some slight lodging noticed on the early season hybrids.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank	
HEFTY	H4322VT2PRIB	VT2P,B	93	<b>197.0</b>	25.9	1	33.7	585	1	
HEFTY	H4522VT2PRIB	VT2P,B	95	<b>196.4</b>	26.8	2	33.7	578	3	
RENK	RK561DGVT2P	VT2P,DG	95	<b>195.9</b>	25.7	0	33.7	582	2	
DYNA-GRO	D35VC35	VT2P	95	<b>193.3</b>	25.4	1	33.3	576	4	
DAHLMAN	R48-28VT2PRIB	VT2P,B	95	190.7	26.0	0	33.7	566	5	
INTEGRA	4509	VT2P,B	95	189.4	27.3	1	33.7	556	8	
GOLDEN HARVEST	G95M41-3010	3010	95	189.1	25.7	4	33.7	562	6	
DAIRYLAND	DS-3550AM	AM	95	188.7	25.8	1	34.0	561	7	
LATHAM	LH4375VT2PRIB	VT2P,B	93	187.4	26.2	1	34.0	555	9	
HEFTY	H4222VT2PRIB	VT2P,B	92	186.5	26.1	1	34.0	552	10	
RENK	RK433VT2P	VT2P	92	186.4	26.5	1	34.0	550	11	
LATHAM	EX 4123 3010	3010	91	182.6	25.5	1	33.7	544	12	
LATHAM	LH4454VT2PRIB	VT2P,B	94	182.5	26.5	1	33.3	539	15	
MUSTANG	5294VT2PRIB GC	VT2P,B	94	182.3	25.2	3	33.3	544	13	
LATHAM	LH4517VT2PRIB	VT2P,B	95	181.6	25.7	4	33.3	540	14	
DAIRYLAND	DS-7294A	3220	94	180.9	26.2	1	33.7	535	18	
DAIRYLAND	DS-3370AM	AM	93	180.9	25.6	1	33.3	538	16	
TITAN PRO	82-95 2P	VT2P,B	95	180.8	25.9	2	33.3	537	17	
TITAN PRO	90-94 2P	VT2P,B	94	179.2	25.9	1	33.7	532	21	
PROSEED	1794VT2PRIB	VT2P,B	94	178.9	25.1	10	32.9	534	20	
HEFTY	H4132VT2P	VT2P	91	178.4	25.8	1	33.7	530	22	
LATHAM	LH4437VT2PRIB	VT2P,B	94	177.9	25.6	2	33.3	529	23	
DAHLMAN	R47-26VT2PRIB	VT2P,B	94	177.7	26.4	2	33.3	525	25	
HEFTY	H4332VT2P	VT2P	93	177.2	27.0	4	33.7	521	26	
THUNDER	6992 VT2P	VT2P,B	92	177.1	25.8	1	32.9	526	24	
THUNDER	6595 VT2P	VT2P,B	95	176.1	27.3	1	33.3	517	28	
THUNDER	6094 VT2P	VT2P,B	94	175.2	25.6	1	33.7	521	27	
THUNDER	6993 VT2P	VT2P,B	93	174.5	26.2	1	32.9	517	29	
INTEGRA	4119	VT2P,B	91	174.4	26.0	5	33.3	517	30	
ENESTVEDT	E612RR	RR2	92	174.0	25.8	2	32.9	517	31	
DEKALB	DKC40-78RIB CK	VT2P,B	90	175.8	22.8	1	34.0	535	19	
				<b>Averages =</b>	<b>178.5</b>	<b>25.9</b>	<b>2</b>	<b>33.6</b>	<b>530</b>	
				<b>LSD (0.10) =</b>	12.9	0.6	ns			
				<b>LSD (0.25) =</b>	6.7	0.3	ns			
				<b>C.V. =</b>	7.9					

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**Yield & Income Factors:** Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$3.24

2019 Corn - Red River South North Dakota & Minnesota [ RRSO ]



Early-Season Test Products (44 Total)

Company/Brand	Product/Brand	Technology	RM
DAIRYLAND	DS-2989Z	3120	89
DAIRYLAND	DS-3030AM	AM	90
DAIRYLAND	DS-6686	GT	87
DEKALB	DKC40-78RIB CK	VT2P,B	90
DYNA-GRO	D27VC87	VT2P	87
GOLDEN HARVEST	G85Z56-3220-EZR	3220,B	85
GOLDEN HARVEST	G88F37-3120A-EZR	3120,A,B	88
GOLDEN HARVEST	G89A09-3120-EZR	3120,B	89
HEFTY	H3532VT2P	VT2P	85
HEFTY	H3622VT2PRIB	VT2P,B	86
HEFTY	H3632VT2P	VT2P	86
HEFTY	H3922VT2PRIB	VT2P,B	89
HEFTY	H4032VT2P	VT2P	90
INTEGRA	3629	VT2P,B	86
INTEGRA	3718	VT2P,B	87
INTEGRA	3839	VT2P,B	88
INTEGRA	CX911090	VT2P	90
LATHAM	EX 3945 VT2P	VT2P	89
LATHAM	LH3755VT2PRIB	VT2P,B	87
LATHAM	LH3827VT2PRIB	VT2P,B	88
LATHAM	LH3937VT2PRIB	VT2P,B	89
LATHAM	LH695VT2PRIB	VT2P,B	86
MUSTANG	2290VT2PRIB GC	VT2P,B	90
MUSTANG	3287VT2PRIB GC	VT2P,B	87
NK BRAND	NK8618-3120A-EZR	3120,A,B	86
NK BRAND	NK8881-3120A-EZR	3120,A,B	88
NK BRAND	NK8920-3120-EZR	3120,B	89
PROSEED	1790VT2PRIB	VT2P,B	90
REA	2A872	VT2P,B	87
REA	2B862	VT2P,B	86
REA	3A891	STX,B	89
REA	3B902	VT2P,B	90
RENK	RK264RR	RR2	85
RENK	RK278VT2P	VT2P,B	87
RENK	RK287VT2P	VT2P,B	87
RENK	RK312VT2P	VT2P	90

Company/Brand	Brand/Product	Technology	RM
RENK	RK408VT2P	VT2P,B	90
STINE	9212-10	3010,A	89
THUNDER	6085 VT2P	VT2P,B	85
THUNDER	6090 3120	3120,B	90
THUNDER	6888 VT2P	VT2P,B	88
THUNDER	6986 VT2P	VT2P,B	86
THUNDER	6987 VT2P	VT2P,B	87
TITAN PRO	82-90 2P	VT2P,B	90

2019 Corn - Red River South North Dakota & Minnesota [ RRSO ]



Full-Season Test Products (40 Total)

Company/Brand	Product/Brand	Technology	RM
DAHLMAN	R47-26VT2PRIB	VT2P,B	94
DAHLMAN	R48-28VT2PRIB	VT2P,B	95
DAIRYLAND	DS-3370AM	AM	93
DAIRYLAND	DS-3518AMXT	AMXT,B	95
DAIRYLAND	DS-3550AM	AM	95
DAIRYLAND	DS-7294A	3220	94
DEKALB	DKC40-78RIB CK	VT2P,B	90
DYNA-GRO	D35VC35	VT2P	95
ENESTVEDT	E612RR	RR2	92
GOLDEN HARVEST	G91V51-3110A	3110,A	91
GOLDEN HARVEST	G95M41-3010	3010	95
HEFTY	H4132VT2P	VT2P	91
HEFTY	H4222VT2PRIB	VT2P,B	92
HEFTY	H4322VT2PRIB	VT2P,B	93
HEFTY	H4332VT2P	VT2P	93
HEFTY	H4522VT2PRIB	VT2P,B	95
INTEGRA	4119	VT2P,B	91
INTEGRA	4342	VT2P,B	93
INTEGRA	4509	VT2P,B	95
LATHAM	EX 4123 3010	3010	91
LATHAM	LH4375VT2PRIB	VT2P,B	93
LATHAM	LH4437VT2PRIB	VT2P,B	94
LATHAM	LH4454VT2PRIB	VT2P,B	94
LATHAM	LH4517VT2PRIB	VT2P,B	95
MUSTANG	5294VT2PRIB GC	VT2P,B	94
NK BRAND	NK9175-3110A	3110,A	91
NK BRAND	NK9227-3220A-EZR	3220,A,B	92
NK BRAND	NK9535-3220-EZR	3220,B	95
PIONEER	P9188VT2P GC	VT2P,B	91
PROSEED	1591VT2PRIB	VT2P,B	91
PROSEED	1794VT2PRIB	VT2P,B	94
RENK	RK433VT2P	VT2P	92
RENK	RK561DGV2P	VT2P,DG	95
THUNDER	6094 VT2P	VT2P,B	94
THUNDER	6595 VT2P	VT2P,B	95
THUNDER	6791 VT2P	VT2P,B	91

Company/Brand	Brand/Product	Technology	RM
THUNDER	6992 VT2P	VT2P,B	92
THUNDER	6993 VT2P	VT2P,B	93
TITAN PRO	82-95 2P	VT2P,B	95
TITAN PRO	90-94 2P	VT2P,B	94

## 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\*

3010	Agrisure® 3010 (CB,LL,GT)	AMXT	Optimum® AcreMax® Xtreme (YGCB,HXT,RW,LL,RR2)	OI	Optimum® Intrasect®, YHR (YGCB,HX,LL,RR2)
3011,A	Agrisure® Artesian® (CB,RW,LL,GT)	AQ	Optimum® AQUAMax®	OIX	Optimum® Intrasect® Xtra, YXR (YGCB,HXT,LL,RR2)
3110	Agrisure® Viptera® 3110 (Vip, CB,LL,GT)	B	Refuge blend product	OIXT	Optimum® Intrasect® Xtreme (YGCB,HXT,RW,LL,RR2)
3111	Agrisure® Viptera® 3111 (Vip,CB,RW,LL,GT)	CB	Agrisure® Corn Borer	PC	PowerCore™ (HX, VT2P)
3120	Agrisure® 3120 (CB,HX,LL,GT)	DG	Genuity® DroughtGard®	RR2	Roundup Ready® 2 Corn
3122	Agrisure® 3122 (CB,HXX,RW,LL,GT)	E	Enlist™ (2,4-D, glyphosate, fop herbicide tolerance)	RW	Agrisure® Rootworm
3220	Agrisure® Viptera® 3220 (Vip,CB,HX,LL,GT)	GT	Agrisure® GT	STX	SmartStax® (VT3P,HXT,RR2,LL)
3330	Agrisure® Viptera® 3330 (Vip,CB,HX,LL,GT)	HX	Herculex® 1, contains LL	TRE	Genuity® Trecepta™
A	Agrisure® Artesian®	HXRW	Herculex® Rootworm, contains LL	VT2P	Genuity® VT Double PRO®
AM	Optimum® AcreMax® (YGCB,HX,LL,RR2)	HXT	Herculex® Xtra (HX,HXRW,LL)	VT3P	Genuity® VT Triple PRO®
AMT	Optimum® AcreMax®TRIssect (HX,RW,LL,RR2)	LL	LibertyLink®	YGCB	YieldGard® Corn Borer
AMX	Optimum® AcreMax® Xtra (YGCB,HXT,LL,RR2)	None	conventional corn		

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