

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]  
FAIRMOUNT, ND  
Dick Rydell, Richland County, ND 58030

<b>Early-Season Test</b>	85 - 90 Day CRM B2019RRSO03a
<b>Top 30 of 44</b>	For Gross Income (Sorted by Yield) Average of (4) Replications
<b>PREV. CROP/HERB:</b>	Soybean / Liberty, Intensity, Verdict
<b>SOIL DESCRIPTION:</b>	Gilby loam, mod. poorly drained, non-irrigated
<b>SOIL CONDITION:</b>	Conventional W/ Fall Till, very low P, very low K, 7.8 pH, 4.1% OM, 41.7 CEC
<b>PEST MANAGEMENT:</b>	Capreno, Atrazine, Durango
<b>FERTILITY - Applied N:</b>	140 Spring, 7 Planter
<b>Applied N-P-K (units):</b>	147-99-60
<b>SEEDED - RATE - ROW:</b>	May 12 34.5 /A 30" spacing
<b>HARVESTED - STAND:</b>	Nov 17 33.6 /A

### TEST COMMENTS:

*This plot was planted on a well drained tiled field. This site was an estimated 25% wetter than the 10 year average and was colder than average, coming up a little short on heat units. The stand was excellent all summer, but a wet growing season and snow in October contributed to noticeable stalk lodging that made it difficult to pick up some hybrids in the plot. Tricia said that the corn they planted around the plot, that was a few day lengths longer than the top day length of the plot, was running around 24% moisture.*

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
THUNDER	6888 VT2P	VT2P,B	88	<b>165.2</b>	17.8	3	33.7	524	1
REA	3B902	VT2P,B	90	<b>164.5</b>	18.4	1	34.0	519	2
NK BRAND	NK8881-3120A-EZR	3120,A,B	88	<b>164.3</b>	19.2	5	34.0	515	3
GOLDEN HARVEST	G88F37-3120A-EZR	3120,A,B	88	<b>164.0</b>	19.2	1	33.7	514	4
NK BRAND	NK8920-3120-EZR	3120,B	89	<b>163.3</b>	19.1	3	34.0	512	6
LATHAM	EX 3945 VT2P	VT2P	89	<b>162.6</b>	18.4	1	33.7	513	5
DAIRYLAND	DS-2989Z	3120	89	160.0	19.5	3	34.0	500	10
HEFTY	H3922VT2PRIB	VT2P,B	89	159.6	18.5	1	33.3	503	7
LATHAM	LH3827VT2PRIB	VT2P,B	88	159.4	18.3	1	33.3	503	8
TITAN PRO	82-90 2P	VT2P,B	90	159.3	19.3	1	32.9	499	12
GOLDEN HARVEST	G89A09-3120-EZR	3120,B	89	158.7	19.1	6	33.7	498	13
HEFTY	H4032VT2P	VT2P	90	158.4	18.4	2	33.3	500	11
INTEGRA	CX911090	VT2P	90	158.3	18.0	1	33.3	501	9
PROSEED	1790VT2PRIB	VT2P,B	90	157.1	19.0	1	33.7	493	16
LATHAM	LH3755VT2PRIB	VT2P,B	87	156.9	17.8	1	33.7	497	14
LATHAM	LH695VT2PRIB	VT2P,B	86	154.8	16.9	5	33.3	494	15
RENK	RK408VT2P	VT2P,B	90	154.4	18.7	1	34.0	486	17
INTEGRA	3718	VT2P,B	87	153.8	18.2	3	34.4	486	18
STINE	9212-10	3010,A	89	152.6	18.3	3	33.3	482	19
RENK	RK287VT2P	VT2P,B	87	151.4	18.2	4	34.0	479	20
INTEGRA	3839	VT2P,B	88	151.0	18.8	1	34.0	475	23
NK BRAND	NK8618-3120A-EZR	3120,A,B	86	150.7	19.5	5	32.9	471	25
DAIRYLAND	DS-3030AM	AM	90	150.6	18.1	6	34.0	476	22
REA	2B862	VT2P,B	86	148.9	18.4	4	33.7	470	26
REA	2A872	VT2P,B	87	148.3	18.3	1	33.7	468	27
RENK	RK312VT2P	VT2P	90	147.5	18.7	5	33.7	464	30
MUSTANG	2290VT2PRIB GC	VT2P,B	90	147.4	18.2	5	33.3	466	28
HEFTY	H3622VT2PRIB	VT2P,B	86	147.4	18.4	1	33.3	465	29
THUNDER	6987 VT2P	VT2P,B	87	147.2	16.5	16	33.3	472	24
MUSTANG	3287VT2PRIB GC	VT2P,B	87	145.4	17.1	1	33.7	463	31
DEKALB	DKC40-78RIB CK	VT2P,B	90	150.4	17.3	3	33.3	479	21
				<b>Averages =</b>	<b>148.6</b>	<b>18.2</b>	<b>5</b>	<b>33.6</b>	<b>470</b>
				LSD (0.10) =	11.9	0.6	6		
				LSD (0.25) =	6.3	0.3	3		
				C.V. =	8.8				

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**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]  
FAIRMOUNT, ND  
Dick Rydell, Richland County, ND 58030

<b>Full-Season Test</b>	91 - 95 Day CRM B2019RRSO03b
<b>Top 30 of 40</b>	For Gross Income (Sorted by Yield) Average of (4) Replications
<b>PREV. CROP/HERB:</b>	Soybean / Liberty, Intensity, Verdict
<b>SOIL DESCRIPTION:</b>	Gilby loam, mod. poorly drained, non-irrigated
<b>SOIL CONDITION:</b>	Conventional W/ Fall Till, very low P, very low K, 7.8 pH, 4.1% OM, 41.7 CEC
<b>PEST MANAGEMENT:</b>	Capreno, Atrazine, Durango
<b>FERTILITY - Applied N:</b>	140 Spring, 7 Planter
<b>Applied N-P-K (units):</b>	147-99-60
<b>SEEDED - RATE - ROW:</b>	May 12 34.5 /A 30" spacing
<b>HARVESTED - STAND:</b>	Nov 17 33.6 /A

### TEST COMMENTS:

*This plot was planted on a well drained tiled field. This site was an estimated 25% wetter than the 10 year average and was colder than average, coming up a little short on heat units. The stand was excellent all summer, but a wet growing season and snow in October contributed to noticeable stalk lodging that made it difficult to pick up some hybrids in the plot. Tricia said that the corn they planted around the plot, that was a few day lengths longer than the top day length of the plot, was running around 24% moisture.*

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
HEFTY	H4222VT2PRIB	VT2P,B	92	<b>171.9</b>	20.6	2	33.3	533	1
LATHAM	EX 4123 3010	3010	91	<b>170.2</b>	19.4	1	33.7	533	2
GOLDEN HARVEST	G95M41-3010	3010	95	<b>169.3</b>	19.7	1	33.7	529	3
HEFTY	H4322VT2PRIB	VT2P,B	93	165.4	20.0	1	33.7	515	4
TITAN PRO	82-95 2P	VT2P,B	95	164.9	20.4	1	34.0	512	5
NK BRAND	NK9227-3220A-EZR	3220,A,B	92	164.3	21.4	1	34.0	506	9
LATHAM	LH4454VT2PRIB	VT2P,B	94	164.1	20.3	1	33.7	510	6
RENK	RK561DGV2P	VT2P,DG	95	163.7	20.2	1	32.9	509	8
HEFTY	H4522VT2PRIB	VT2P,B	95	163.0	21.7	2	33.7	501	12
PROSEED	1794VT2PRIB	VT2P,B	94	161.8	18.4	14	34.0	510	7
RENK	RK433VT2P	VT2P	92	161.7	20.4	1	34.0	502	11
THUNDER	6595 VT2P	VT2P,B	95	160.7	20.3	3	33.7	499	13
NK BRAND	NK9535-3220-EZR	3220,B	95	160.3	19.1	1	33.7	503	10
LATHAM	LH4517VT2PRIB	VT2P,B	95	159.6	20.3	1	32.9	496	15
INTEGRA	4509	VT2P,B	95	159.0	22.2	2	33.7	486	21
HEFTY	H4332VT2P	VT2P	93	159.0	19.1	3	33.7	499	14
DAHLMAN	R48-28VT2PRIB	VT2P,B	95	159.0	20.2	1	32.9	494	16
INTEGRA	4342	VT2P,B	93	157.9	20.5	1	33.7	490	18
DAIRYLAND	DS-7294A	3220	94	157.2	21.4	3	34.4	484	23
MUSTANG	5294VT2PRIB GC	VT2P,B	94	156.8	19.3	2	33.7	491	17
THUNDER	6094 VT2P	VT2P,B	94	156.7	19.6	9	33.3	490	19
DAIRYLAND	DS-3370AM	AM	93	155.7	19.9	7	33.3	486	22
THUNDER	6992 VT2P	VT2P,B	92	155.2	19.1	1	33.3	487	20
DAHLMAN	R47-26VT2PRIB	VT2P,B	94	154.4	19.2	12	33.3	484	24
THUNDER	6791 VT2P	VT2P,B	91	154.3	19.6	4	34.4	482	25
PROSEED	1591VT2PRIB	VT2P,B	91	154.0	19.8	1	34.0	480	26
DAIRYLAND	DS-3518AMXT	AMXT,B	95	153.4	21.5	6	34.0	472	28
ENESTVEDT	E612RR	RR2	92	152.7	19.6	5	34.0	477	27
LATHAM	LH4437VT2PRIB	VT2P,B	94	150.6	19.9	12	33.7	469	30
DYNA-GRO	D35VC35	VT2P	95	150.4	19.6	12	33.7	470	29
DEKALB	DKC40-78RIB CK	VT2P,B	90	141.9	17.6	2	33.3	451	34
				Averages =	<b>154.5</b>	<b>19.8</b>	<b>7</b>	<b>33.6</b>	<b>482</b>
				LSD (0.10) =	13.6	0.7	9		
				LSD (0.25) =	7.1	0.4	5		
				C.V. =	9.7				

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

Report Date: 11/18/2019

† 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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## 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® TRIsect (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.