

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]

ROTHSAY, MN

Bruce Yaggie, Wilkin County, MN 56520

Early-Season Test

85 - 90 Day CRM
B2019RRSO05a

Top 30 of 44

For Gross Income
(Sorted by Yield)
Average of (4) Replications

PREV. CROP/HERB:

Wheat / Widematch

SOIL DESCRIPTION:

Hamerly loam, non-irrigated

SOIL CONDITION:

Conventional W/ Fall Till, very
low P, low K, 8.0 pH, 3.0% OM,
22.6 CEC

PEST MANAGEMENT:

Roundup

FERTILITY - Applied N:

150 Spring

Applied N-P-K (units):

150-90-15

SEEDED - RATE - ROW:

May 15 34.5 /A 30" spacing

HARVESTED - STAND:

Nov 27 33.6 /A

TEST COMMENTS:

This plot was planted into excellent field conditions the same day as the surrounding field. The growing season was significantly wetter than the average, and from September up to plot harvest this site was an estimated 200 GDU's below the 10 year average, making for higher grain moistures in fuller season products. Like the rest of the Red River Valley, harvest has been a struggle due to wet conditions, which has kept many out of the fields until the ground has froze up enough to drive over. At harvest, there was stalk lodging noticed in both tests due to late harvest, with some root lodging noticed in the early season products.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
INTEGRA	CX911090	VT2P	90	191.2	22.3	1	33.3	585	1
TITAN PRO	82-90 2P	VT2P,B	90	188.2	23.6	1	33.7	569	3
DAIRYLAND	DS-6686	GT	87	186.9	22.5	1	34.4	571	2
LATHAM	LH3937VT2PRIB	VT2P,B	89	186.9	23.6	1	33.3	565	5
STINE	9212-10	3010,A	89	184.3	21.4	1	34.0	567	4
HEFTY	H3632VT2P	VT2P	86	183.9	21.9	2	33.3	564	6
THUNDER	6888 VT2P	VT2P,B	88	183.5	22.0	1	32.9	562	7
RENK	RK287VT2P	VT2P,B	87	183.1	22.1	1	32.9	561	8
NK BRAND	NK8618-3120A-EZR	3120,A,B	86	182.3	23.8	9	33.7	551	9
LATHAM	EX 3945 VT2P	VT2P	89	180.9	22.8	1	33.7	551	10
GOLDEN HARVEST	G88F37-3120A-EZR	3120,A,B	88	179.5	22.6	1	33.7	547	11
HEFTY	H3922VT2PRIB	VT2P,B	89	176.9	23.2	1	33.7	537	15
NK BRAND	NK8881-3120A-EZR	3120,A,B	88	176.3	22.9	1	33.7	537	16
RENK	RK278VT2P	VT2P,B	87	175.5	21.0	5	32.9	542	12
THUNDER	6986 VT2P	VT2P,B	86	175.2	21.3	7	33.3	540	14
<i>PROSEED</i>	<i>1790VT2PRIB</i>	<i>VT2P,B</i>	<i>90</i>	<i>174.9</i>	<i>23.9</i>	<i>1</i>	<i>34.0</i>	<i>528</i>	<i>19</i>
THUNDER	6987 VT2P	VT2P,B	87	174.8	20.5	8	33.7	542	13
INTEGRA	3629	VT2P,B	86	174.6	21.5	6	33.7	537	17
LATHAM	LH695VT2PRIB	VT2P,B	86	173.1	21.0	1	33.7	535	18
HEFTY	H4032VT2P	VT2P	90	173.0	22.7	11	32.9	527	20
LATHAM	LH3827VT2PRIB	VT2P,B	88	172.2	22.4	2	34.4	526	21
RENK	RK408VT2P	VT2P,B	90	171.9	22.8	1	34.0	523	22
THUNDER	6090 3120	3120,B	90	170.7	23.6	3	33.7	516	23
INTEGRA	3718	VT2P,B	87	168.3	22.4	1	33.3	514	24
REA	3B902	VT2P,B	90	167.8	22.0	1	33.7	514	25
LATHAM	LH3755VT2PRIB	VT2P,B	87	166.2	21.6	2	33.3	511	26
MUSTANG	3287VT2PRIB GC	VT2P,B	87	165.3	21.4	8	34.0	509	27
DYNA-GRO	D27VC87	VT2P	87	165.1	21.2	5	33.7	509	28
MUSTANG	2290VT2PRIB GC	VT2P,B	90	162.6	22.1	1	34.0	498	29
HEFTY	H3622VT2PRIB	VT2P,B	86	160.6	21.7	5	33.3	494	30
DEKALB	DKC40-78RIB CK	VT2P,B	90	156.8	21.0	4	32.9	485	34

Averages = **167.9** **22.1** **4** **33.6** **514**

LSD (0.10) = 15.0 0.6 ns

LSD (0.25) = 7.9 0.3 ns

C.V. = 9.8

Luke Brendemuhl

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Yield & Income Factors:

Base Moisture = 15.0%

Shrink = 1.3

Drying = \$0.025

Prices: GMO = \$3.24

Report Date: 12/02/2019

† 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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ROTHSAY, MN

Bruce Yaggie, Wilkin County, MN 56520

Full-Season Test

91 - 95 Day CRM
B2019RRSO05b

Top 30 of 40

For Gross Income
(Sorted by Yield)
Average of (4) Replications

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Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank	
GOLDEN HARVEST	G95M41-3010	3010	95	197.2	23.7	1	33.3	596	1	
ENESTVEDT	E612RR	RR2	92	194.8	23.7	1	32.9	589	2	
DAHLMAN	R48-28VT2PRIB	VT2P,B	95	191.1	24.7	1	33.7	573	3	
THUNDER	6094 VT2P	VT2P,B	94	188.1	22.9	3	34.0	572	4	
HEFTY	H4332VT2P	VT2P	93	185.1	23.9	1	33.7	559	8	
DAHLMAN	R47-26VT2PRIB	VT2P,B	94	184.9	22.6	1	33.3	564	6	
LATHAM	LH4375VT2PRIB	VT2P,B	93	184.5	22.9	1	34.0	561	7	
HEFTY	H4522VT2PRIB	VT2P,B	95	184.4	25.9	1	33.3	547	15	
PROSEED	1794VT2PRIB	VT2P,B	94	184.0	24.1	1	34.0	554	9	
THUNDER	6992 VT2P	VT2P,B	92	184.0	24.3	1	33.3	553	10	
TITAN PRO	82-95 2P	VT2P,B	95	182.6	24.6	1	34.0	548	12	
HEFTY	H4222VT2PRIB	VT2P,B	92	182.4	24.4	2	34.0	548	13	
NK BRAND	NK9535-3220-EZR	3220,B	95	181.7	24.0	1	33.7	548	14	
DYNA-GRO	D35VC35	VT2P	95	181.2	23.1	3	33.7	551	11	
LATHAM	LH4517VT2PRIB	VT2P,B	95	180.8	26.2	1	34.4	535	22	
HEFTY	H4322VT2PRIB	VT2P,B	93	180.0	23.5	2	33.3	545	16	
THUNDER	6791 VT2P	VT2P,B	91	179.5	23.7	1	33.7	542	18	
LATHAM	LH4437VT2PRIB	VT2P,B	94	179.5	25.1	1	33.7	536	20	
INTEGRA	4119	VT2P,B	91	179.3	23.6	1	33.7	543	17	
INTEGRA	4509	VT2P,B	95	178.7	26.7	3	33.3	527	29	
RENK	RK561DGV2P	VT2P,DG	95	178.3	24.3	2	33.7	536	21	
RENK	RK433VT2P	VT2P	92	177.8	24.2	1	34.0	535	23	
DAIRYLAND	DS-3550AM	AM	95	177.5	23.6	4	33.7	537	19	
LATHAM	LH4454VT2PRIB	VT2P,B	94	177.1	24.7	1	33.7	531	25	
NK BRAND	NK9227-3220A-EZR	3220,A,B	92	176.3	24.8	1	33.3	528	26	
DAIRYLAND	DS-3370AM	AM	93	175.2	23.0	3	34.0	533	24	
PROSEED	1591VT2PRIB	VT2P,B	91	174.1	23.3	5	33.7	528	27	
THUNDER	6595 VT2P	VT2P,B	95	173.9	25.3	1	33.3	518	31	
MUSTANG	5294VT2PRIB GC	VT2P,B	94	173.6	23.0	3	33.3	528	28	
GOLDEN HARVEST	G91V51-3110A	3110,A	91	172.2	23.0	9	34.4	523	30	
DEKALB	DKC40-78RIB CK	VT2P,B	90	185.5	21.3	1	33.7	572	5	
				Averages =	177.3	23.9	2	33.7	535	
				LSD (0.10) =	12.0	1.1	ns			
				LSD (0.25) =	6.3	0.6	ns			
				C.V. =	7.4					

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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

[^] 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.