

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]
WENDELL, MN
Chad Biss, Grant County, MN 56531

Early-Season Test 85 - 90 Day CRM
B2019RRSO04a

Top 30 of 44 For Gross Income
(Sorted by Yield)
Average of (4) Replications

PREV. CROP/HERB: Soybean / Panther, Roundup
WM, Select Max, Flexstar GT

SOIL DESCRIPTION: Formdale clay loam, non-
irrigated

SOIL CONDITION: Conventional W/ Fall Till, low P,
low K, 6.6 pH, 4.9% OM, 25.3
CEC

PEST MANAGEMENT: Status, Roundup Wm

FERTILITY - Applied N: 105 Spring

Applied N-P-K (units): 105-60-15

SEEDED - RATE - ROW: May 15 34.5 /A 30" spacing

HARVESTED - STAND: Nov 15 33.6 /A

TEST COMMENTS:

Cold wet conditions delayed planting throughout this area. This location was 23% wetter than the 10 year average, with September and October bringing an estimated 9 inches of rain with some snow as well. There was stalk lodging and root lodging noticed among some of the varieties at harvest, and grain moistures were comparable to the area.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
LATHAM	LH3937VT2PRIB	VT2P,B	89	191.0	19.1	0	33.7	599	1
INTEGRA	3629	VT2P,B	86	187.0	16.4	0	33.3	599	2
INTEGRA	CX911090	VT2P	90	184.0	19.6	0	33.7	575	4
TITAN PRO	82-90 2P	VT2P,B	90	183.1	18.9	0	34.4	576	3
REA	3B902	VT2P,B	90	181.7	18.9	0	33.7	571	6
STINE	9212-10	3010,A	89	179.8	18.1	1	34.0	569	7
MUSTANG	3287VT2PRIB GC	VT2P,B	87	179.2	17.0	0	33.7	572	5
HEFTY	H4032VT2P	VT2P	90	178.9	18.9	0	33.3	562	8
GOLDEN HARVEST	G88F37-3120A-EZR	3120,A,B	88	177.5	19.0	0	33.3	557	9
RENK	RK408VT2P	VT2P,B	90	177.1	18.8	0	34.0	557	10
NK BRAND	NK8618-3120A-EZR	3120,A,B	86	177.0	19.0	0	33.3	556	11
DAIRYLAND	DS-6686	GT	87	176.5	18.6	0	33.7	556	12
LATHAM	LH695VT2PRIB	VT2P,B	86	173.6	16.9	0	33.7	554	14
THUNDER	6987 VT2P	VT2P,B	87	173.3	16.6	0	33.7	555	13
NK BRAND	NK8881-3120A-EZR	3120,A,B	88	172.6	18.5	3	33.4	544	15
LATHAM	LH3755VT2PRIB	VT2P,B	87	171.9	18.1	0	33.3	544	16
THUNDER	6986 VT2P	VT2P,B	86	170.2	17.5	1	33.7	541	18
RENK	RK278VT2P	VT2P,B	87	170.2	17.1	0	33.7	543	17
GOLDEN HARVEST	G85Z56-3220-EZR	3220,B	85	169.4	17.9	6	33.7	537	19
LATHAM	LH3827VT2PRIB	VT2P,B	88	169.2	18.6	0	33.7	533	20
REA	3A891	STX,B	89	168.6	19.4	0	33.7	528	22
THUNDER	6090 3120	3120,B	90	166.4	18.2	2	33.3	526	23
PROSEED	1790VT2PRIB	VT2P,B	90	166.3	19.8	0	34.0	519	25
HEFTY	H3922VT2PRIB	VT2P,B	89	165.0	18.7	0	34.0	520	24
HEFTY	H3632VT2P	VT2P	86	164.9	16.3	0	33.4	529	21
NK BRAND	NK8920-3120-EZR	3120,B	89	163.7	19.3	2	33.3	513	27
RENK	RK312VT2P	VT2P	90	163.2	18.2	0	33.7	516	26
LATHAM	EX 3945 VT2P	VT2P	89	162.0	18.7	0	34.0	510	29
HEFTY	H3622VT2PRIB	VT2P,B	86	161.3	17.8	0	34.4	511	28
REA	2B862	VT2P,B	86	160.2	17.4	0	33.7	510	30
DEKALB	DKC40-78RIB CK	VT2P,B	90	151.8	17.2	0	34.0	484	37

Averages = **166.5** **18.1** **1** **33.6** **527**

LSD (0.10) = 16.8 0.7 ns

LSD (0.25) = 8.8 0.4 ns

C.V. = 11.1

Luke Brendemuhl

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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]

WENDELL, MN

Chad Biss, Grant County, MN 56531

Full-Season Test

91 - 95 Day CRM
B2019RRSO04b

Top 30 of 40

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

PREV. CROP/HERB:

Soybean / Panther, Roundup
WM, Select Max, Flexstar GT

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irrigated

SOIL CONDITION:

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low K, 6.6 pH, 4.9% OM, 25.3
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Status, Roundup Wm

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105 Spring

Applied N-P-K (units):

105-60-15

SEEDED - RATE - ROW:

May 15 34.5 /A 30" spacing

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Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank	
LATHAM	EX 4123 3010	3010	91	192.4	20.3	4	34.0	598	1	
TITAN PRO	90-94 2P	VT2P,B	94	190.5	19.7	0	33.7	595	2	
NK BRAND	NK9535-3220-EZR	3220,B	95	187.9	19.6	19	33.3	587	3	
MUSTANG	5294VT2PRIB GC	VT2P,B	94	186.8	19.4	6	33.3	585	4	
RENK	RK561DGVT2P	VT2P,DG	95	185.7	21.1	0	34.0	574	6	
ENESTVEDT	E612RR	RR2	92	185.7	20.1	0	32.9	578	5	
HEFTY	H4522VT2PRIB	VT2P,B	95	183.2	22.0	0	33.7	562	10	
RENK	RK433VT2P	VT2P	92	182.4	20.9	0	32.9	564	8	
HEFTY	H4222VT2PRIB	VT2P,B	92	181.3	19.9	0	34.0	565	7	
INTEGRA	4119	VT2P,B	91	180.9	20.7	0	34.0	560	12	
THUNDER	6992 VT2P	VT2P,B	92	180.4	19.8	1	34.0	563	9	
HEFTY	H4332VT2P	VT2P	93	179.8	19.9	0	34.0	561	11	
TITAN PRO	82-95 2P	VT2P,B	95	179.1	22.1	2	33.3	549	20	
DAHLMAN	R47-26VT2PRIB	VT2P,B	94	179.0	19.8	0	33.7	559	13	
NK BRAND	NK9227-3220A-EZR	3220,A,B	92	179.0	19.9	6	33.3	558	14	
PIONEER	P9188VT2P GC	VT2P,B	91	178.7	19.7	0	33.7	558	15	
PROSEED	1794VT2PRIB	VT2P,B	94	177.7	19.4	0	34.0	556	16	
INTEGRA	4509	VT2P,B	95	177.4	21.8	0	33.7	545	22	
DAIRYLAND	DS-3550AM	AM	95	177.2	20.4	4	33.3	550	19	
DAHLMAN	R48-28VT2PRIB	VT2P,B	95	176.7	20.9	0	33.7	547	21	
GOLDEN HARVEST	G95M41-3010	3010	95	176.1	18.3	5	34.0	556	17	
PROSEED	1591VT2PRIB	VT2P,B	91	175.4	18.9	0	33.7	551	18	
LATHAM	LH4437VT2PRIB	VT2P,B	94	174.3	19.8	2	33.7	544	23	
THUNDER	6094 VT2P	VT2P,B	94	174.3	20.2	0	33.7	542	24	
DYNA-GRO	D35VC35	VT2P	95	173.2	19.8	0	33.3	540	25	
LATHAM	LH4517VT2PRIB	VT2P,B	95	173.0	20.5	2	33.7	537	26	
THUNDER	6993 VT2P	VT2P,B	93	171.8	20.3	0	33.7	534	27	
HEFTY	H4132VT2P	VT2P	91	171.3	20.2	1	33.3	533	28	
LATHAM	LH4375VT2PRIB	VT2P,B	93	170.3	20.0	5	33.3	530	30	
DAIRYLAND	DS-7294A	3220	94	170.3	19.8	2	33.7	531	29	
DEKALB	DKC40-78RIB CK	VT2P,B	90	162.3	18.1	0	33.3	513	34	
				Averages =	175.3	20.2	2	33.6	545	
				LSD (0.10) =	11.2	0.8	4			
				LSD (0.25) =	5.9	0.4	2			
				C.V. =	7.0					

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Yield & Income Factors:

Base Moisture = 15.0%

Shrink = 1.3

Drying = \$0.025

Prices: GMO = \$3.24

Report Date: 11/17/2019

† 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

[^] 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.