

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]

BARNESVILLE, MN

Nate Thompson, Clay County, MN 56514

Early-Season Test	85 - 90 Day CRM B2019RRSO01a
Top 30 of 44	For Gross Income (Sorted by Yield) Average of (4) Replications
PREV. CROP/HERB:	Sugarbeet / Dual, Nortron, Stinger, Roundup
SOIL DESCRIPTION:	Barnes-Langhei loam, non- irrigated
SOIL CONDITION:	Conventional W/ Fall Till, high P, high K, 6.9 pH, 3.9% OM, 16.8 CEC
PEST MANAGEMENT:	Armezon Pro, Atrazine, Roundup
FERTILITY - Applied N:	230 Spring, 2 Planter
Applied N-P-K (units):	232-23-12
SEEDED - RATE - ROW:	May 10 34.5 /A 30" spacing
HARVESTED - STAND:	Nov 14 33.7 /A

TEST COMMENTS:

This was our first corn plot planted this year, and it was planted shortly after Nate planted the surrounding field. At harvest, it was noticed that some hybrids had significant lodging due to a weak stalk, but overall most were standing perfectly. From May until November this site received an estimated 2,000 GDU's, which is a few hundred GDU's short of the 10 year average.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
INTEGRA	CX911090	VT2P	90	189.1	25.4	0	33.3	564	1
LATHAM	EX 3945 VT2P	VT2P	89	185.2	24.6	2	33.7	555	2
HEFTY	H3922VT2PRIB	VT2P,B	89	183.2	25.0	2	33.7	548	4
DAIRYLAND	DS-6686	GT	87	181.3	23.5	0	33.7	549	3
HEFTY	H4032VT2P	VT2P	90	180.7	25.4	1	33.3	538	5
INTEGRA	3718	VT2P,B	87	180.4	25.2	1	33.7	538	6
PROSEED	1790VT2PRIB	VT2P,B	90	179.3	26.0	1	33.7	532	7
TITAN PRO	82-90 2P	VT2P,B	90	178.3	27.6	0	33.7	522	12
THUNDER	6986 VT2P	VT2P,B	86	176.6	24.2	1	34.0	532	8
REA	3B902	VT2P,B	90	176.0	25.4	2	34.0	525	11
REA	2B862	VT2P,B	86	175.6	24.5	1	33.3	527	10
THUNDER	6987 VT2P	VT2P,B	87	174.6	23.7	3	33.3	528	9
THUNDER	6888 VT2P	VT2P,B	88	174.0	25.3	3	34.0	519	13
NK BRAND	NK8920-3120-EZR	3120,B	89	172.2	24.8	0	33.9	516	14
NK BRAND	NK8618-3120A-EZR	3120,A,B	86	172.0	25.0	1	33.7	514	16
LATHAM	LH3755VT2PRIB	VT2P,B	87	171.4	25.0	1	33.3	512	18
RENK	RK312VT2P	VT2P	90	170.5	25.7	0	34.4	507	22
RENK	RK408VT2P	VT2P,B	90	170.5	26.5	0	33.3	503	25
LATHAM	LH695VT2PRIB	VT2P,B	86	170.0	23.5	0	33.7	515	15
LATHAM	LH3937VT2PRIB	VT2P,B	89	169.5	26.1	3	33.7	502	26
HEFTY	H3622VT2PRIB	VT2P,B	86	169.4	24.7	0	33.3	508	21
REA	2A872	VT2P,B	87	169.1	24.0	0	33.7	510	19
DYNA-GRO	D27VC87	VT2P	87	168.4	23.6	0	34.0	509	20
NK BRAND	NK8881-3120A-EZR	3120,A,B	88	168.4	24.1	1	34.0	507	23
MUSTANG	2290VT2PRIB GC	VT2P,B	90	167.9	24.3	1	33.7	505	24
GOLDEN HARVEST	G88F37-3120A-EZR	3120,A,B	88	165.8	24.1	1	33.3	500	27
LATHAM	LH3827VT2PRIB	VT2P,B	88	165.1	25.5	1	34.0	492	31
STINE	9212-10	3010,A	89	165.0	23.8	1	34.0	498	28
DAIRYLAND	DS-2989Z	3120	89	164.9	24.9	2	33.7	493	30
THUNDER	6085 VT2P	VT2P,B	85	163.5	23.1	1	33.7	496	29
DEKALB	DKC40-78RIB CK	VT2P,B	90	168.9	23.2	1	33.7	513	17
				Averages =	168.2	24.6	2	33.7	504
				LSD (0.10) =	12.2	0.8	4		
				LSD (0.25) =	6.4	0.4	2		
				C.V. =	8.0				

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: 11/15/2019

† 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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Red River South North Dakota & Minnesota [RRSO]

BARNESVILLE, MN

Nate Thompson, Clay County, MN 56514

Full-Season Test

91 - 95 Day CRM
B2019RRSO01b

Top 30 of 40

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

PREV. CROP/HERB:

Sugarbeet / Dual, Nortron,
Stinger, Roundup

SOIL DESCRIPTION:

Barnes-Langhei loam, non-
irrigated

SOIL CONDITION:

Conventional W/ Fall Till, high P,
high K, 6.9 pH, 3.9% OM, 16.8
CEC

PEST MANAGEMENT:

Armezon Pro, Atrazine,
Roundup

FERTILITY - Applied N:

230 Spring, 2 Planter

Applied N-P-K (units):

232-23-12

SEEDED - RATE - ROW:

May 10 34.5 /A 30" spacing

HARVESTED - STAND:

Nov 14 33.6 /A

TEST COMMENTS:

This was our first corn plot planted this year, and it was planted shortly after Nate planted the surrounding field. At harvest, it was noticed that some hybrids had significant lodging due to a weak stalk, but overall most were standing perfectly. From May until November this site received an estimated 2,000 GDU's, which is a few hundred GDU's short of the 10 year average.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank	
TITAN PRO	82-95 2P	VT2P,B	95	195.0	27.8	0	33.3	570	2	
ENESTVEDT	E612RR	RR2	92	194.7	27.1	0	34.0	572	1	
GOLDEN HARVEST	G95M41-3010	3010	95	191.8	26.5	1	33.3	566	3	
LATHAM	EX 4123 3010	3010	91	189.9	26.4	1	34.0	561	4	
PROSEED	1794VT2PRIB	VT2P,B	94	189.5	27.8	3	33.7	553	5	
THUNDER	6595 VT2P	VT2P,B	95	187.9	28.2	1	34.4	547	6	
THUNDER	6992 VT2P	VT2P,B	92	183.2	28.5	1	34.0	532	8	
HEFTY	H4332VT2P	VT2P	93	182.3	27.4	3	33.3	534	7	
RENK	RK561DGVT2P	VT2P,DG	95	181.0	28.2	2	33.7	527	11	
THUNDER	6094 VT2P	VT2P,B	94	180.6	26.8	2	34.0	532	9	
PROSEED	1591VT2PRIB	VT2P,B	91	179.4	26.7	3	34.0	528	10	
DAHLMAN	R48-28VT2PRIB	VT2P,B	95	178.8	27.8	1	33.3	522	13	
LATHAM	LH4437VT2PRIB	VT2P,B	94	178.1	28.7	1	34.0	516	15	
DYNA-GRO	D35VC35	VT2P	95	176.3	26.1	6	33.3	522	14	
LATHAM	LH4454VT2PRIB	VT2P,B	94	176.2	29.5	1	32.9	507	18	
INTEGRA	4119	VT2P,B	91	173.3	27.4	0	33.7	508	16	
RENK	RK433VT2P	VT2P	92	170.6	27.4	1	33.3	500	20	
DAHLMAN	R47-26VT2PRIB	VT2P,B	94	170.3	25.3	6	33.3	508	17	
MUSTANG	5294VT2PRIB GC	VT2P,B	94	170.2	26.3	10	34.0	504	19	
HEFTY	H4322VT2PRIB	VT2P,B	93	169.3	28.3	8	34.4	492	22	
HEFTY	H4222VT2PRIB	VT2P,B	92	169.2	28.9	1	33.3	489	24	
LATHAM	LH4375VT2PRIB	VT2P,B	93	167.6	26.6	3	33.7	494	21	
LATHAM	LH4517VT2PRIB	VT2P,B	95	167.2	27.5	1	33.7	489	25	
THUNDER	6993 VT2P	VT2P,B	93	166.5	27.1	1	33.3	489	26	
TITAN PRO	90-94 2P	VT2P,B	94	165.2	25.8	8	33.3	491	23	
THUNDER	6791 VT2P	VT2P,B	91	163.5	26.0	0	34.0	485	28	
PIONEER	P9188VT2P GC	VT2P,B	91	162.9	24.8	7	34.0	488	27	
HEFTY	H4132VT2P	VT2P	91	162.5	26.1	0	33.7	482	30	
NK BRAND	NK9227-3220A-EZR	3220,A,B	92	161.8	26.5	4	34.0	478	31	
GOLDEN HARVEST	G91V51-3110A	3110,A	91	161.5	25.0	11	33.3	483	29	
DEKALB	DKC40-78RIB CK	VT2P,B	90	176.5	25.8	1	33.7	524	12	
				Averages =	170.1	27.1	4	33.6	499	
				LSD (0.10) =	15.7	1.1	6			
				LSD (0.25) =	8.3	0.6	3			
				C.V. =	10.2					

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Yield & Income Factors:

Base Moisture = 15.0%

Shrink = 1.3

Drying = \$0.025

Prices: GMO = \$3.24

Report Date: 11/15/2019

† 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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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.