

2018 Corn Grain Top 30 Harvest Report
 Red River Valley Central [RRCE] MAHNOMEN
 Jeff Halland, Mahnomen County, MN 56545



PREV. CROP/HERB: Soybean / Fierce, Liberty
 SOIL DESCRIPTION: Vallery silty clay loam, poor drained, non-irrigated
 SOIL CONDITION: Conventional w/o fall till, low P, very low K, 7.7 pH, 5.1% OM, 38 CEC
 PEST MANAGEMENT: SureStart, Roundup
 FERTILITY - Applied N: 120 Spring
 Applied N-P-K (units): 120-26-60
 SEEDING - RATE - ROW: May 16 33,000 /A 30" spacing
 HARVESTED - STAND: Oct 30 31,400 /A

Early-Season Test
80 - 85 Day CRM
 B2018RRCE04a

Top 30 of 32
 For Gross Income (Sorted by Yield)
 Average of (4) Replications

Company/Brand	Product/Brand†	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
NK Brand	NK8519-3110	3110	85	169.0	21.4	0	31.4	438	1
Thunder	6983VT2P	VT2P	83	167.6	21.1	0	32.1	435	2
Partners Brand	PB 5203-3000GT GC	3000GT	82	167.4	22.0	0	31.7	431	3
NuTech	5N-183	3000GT	83	166.6	22.1	0	32.1	429	4
Thunder	6785VT2P	VT2P,B	85	166.0	21.9	0	30.6	428	5
Hefty	H3502VT2PRIB	VT2P,B	85	163.2	21.1	0	30.6	424	6
Latham	EX3325VT2Pro	VT2P	83	159.6	21.8	0	30.6	412	7
Proseed	1382VT2PRIB	VT2P,B	82	155.5	19.9	0	32.5	409	8
NuTech	5GN-8484	3110,A	84	155.1	21.6	1	31.0	401	11
Hefty	H3122VT2P	VT2P	81	155.0	20.7	0	31.7	404	9
NK Brand	NK8455-3220A-EZR	3220,A,B	84	152.9	20.9	0	31.4	398	14
Latham	LH3151RR	RR2	81	152.5	20.3	0	31.0	399	13
Proseed	1385VT2PRIB	VT2P,B	85	152.1	20.3	0	31.7	398	15
Mustang	2283VT2PRIB	VT2P,B	83	151.9	21.2	0	31.7	394	16
Dyna-Gro	D22VC62	VT2P	82	151.8	19.4	0	31.0	401	12
Thunder	6782VT2P	VT2P,B	81	151.2	21.1	1	31.4	393	17
Partners Brand	PB 5630-VIP3110 GC	3110	84	150.5	20.8	1	31.4	392	18
Hefty	H2922VT2P	VT2P	80	147.2	19.8	0	31.0	387	19
Prairie Brand	3218PWRA GC	PC,B	82	146.7	20.2	0	31.7	384	21
Golden Harvest	G82M47-3220-EZR	3220,B	82	146.7	21.5	0	29.9	380	22
Thunder	4383VT2P	VT2P,B	83	146.1	19.2	0	31.0	386	20
Golden Harvest	G80Q01-3110A	3110,A	80	145.7	21.6	0	32.1	377	23
Renk	RK264RR	RR2	85	144.9	22.7	0	31.4	371	26
NK Brand	NK8005-3110A	3110,A	80	144.3	21.5	0	31.7	373	25
Hefty	H3022VT2P	VT2P	80	143.6	20.1	0	30.6	377	24
Enestvedt	E843RR	RR2	85	142.5	21.8	0	30.6	368	27
Latham	LH3585VT2Pro	VT2P	85	139.7	21.9	0	31.4	360	28
Dairyland	RPM-2918AM	AM,B	85	138.9	21.8	0	32.9	358	30
Renk	RK270RR	RR2	85	138.8	22.4	0	30.6	356	31
Latham	LH3117VT2ProRIB	VT2P,B	81	137.5	20.2	0	31.0	360	29
Dekalb	DKC35-88RIB CK	VT2P,B	85	154.7	21.0	0	32.1	402	10

Averages = **151.0** **21.1** **0** **31.4** **392**

LSD (0.10) = 12.2 1.0 ns

Luke Brendemuhl LSD (0.25) = 6.4 0.5 ns

luke.brendemuhl@firstseedtests.com, (218) 790-4497 C.V. = 8.8

New test site, no yield history

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$2.75; non-GMO = \$2.75

Test Comments: *Wet conditions delayed planting the plot until mid-May, same day as Pat, Jeff, and John planted the surrounding field. Growing season rainfall was slightly above average with a large amount right after planting. There was a dry period from July 21 to Aug. 21 with only 1 inch of rainfall. Very wet at harvest with water filling ditches. Area farmers loaded trucks on the gravel roads instead of in fields.*

† 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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 Applied N-P-K (units): 120-26-60
 SEEDING - RATE - ROW: May 16 33,000 /A 30" spacing
 HARVESTED - STAND: Oct 30 31,300 /A

Full-Season Test
86 - 90 Day CRM
 B2018RRCE04b

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

Company/Brand	Product/Brand†	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Golden Harvest	G84J92-3011A	3011,A	85	183.4	22.6	0	30.2	470	1
REA	2B861	VT2P,B	86	182.0	22.8	0	31.4	465	2
Latham	LH3695VT2ProRIB	VT2P,B	86	180.2	22.5	0	32.1	462	3
NuTech	5N-886	3011,A	86	179.0	21.9	0	30.6	461	4
Latham	LH3937VT2ProRIB	VT2P,B	89	178.6	24.0	0	32.5	451	8
Pioneer	P9188AM GC	AM,B	91	177.3	23.3	0	32.1	451	9
Hefty	H3622VT2P	VT2P	86	177.2	23.9	0	31.0	448	11
Dairyland	DS-9686	3000GT	86	176.9	22.7	0	32.5	452	7
Dyna-Gro	D27VC87	VT2P	87	176.7	22.3	0	31.4	454	6
Thunder	6987VT2P	VT2P	87	176.3	21.3	0	30.6	457	5
Golden Harvest	G89A09-3120-EZR	3120,B	89	176.1	24.7	0	32.1	442	14
Proseed	1787VT2PRIB	VT2P,B	87	174.3	22.4	2	31.0	447	12
Mustang	3287VT2PRIB	VT2P,B	87	173.8	22.6	0	31.4	445	13
NK Brand	NK8618-3011A	3011,A	86	173.3	21.3	0	31.0	449	10
Renk	RK408VT2P	VT2P,B	90	172.8	22.6	0	31.4	442	15
Mustang	2290VT2PRIB	VT2P,B	90	172.8	23.0	0	31.4	441	16
Golden Harvest	G88F37-3010A	3010,A	88	172.8	23.8	0	31.4	437	20
Thunder	6888VT2P	VT2P,B	88	172.7	23.4	0	31.4	439	19
Enestvedt	E878VT2PRIB	VT2P,B	87	172.0	22.7	0	29.9	440	17
Hefty	H4012VT2PRIB	VT2P,B	90	170.9	23.1	0	29.9	435	22
REA	3B891	VT2P,B	89	170.8	21.9	0	31.4	440	18
Taylor	8186VT2ProRIB GC	VT2P,B	86	170.4	22.9	0	30.2	435	23
Hefty	H3922VT2P	VT2P	89	170.3	22.3	0	31.0	437	21
Enestvedt	E875RR	RR2	88	168.8	23.3	0	31.7	429	27
Dyna-Gro	D27VC47	VT2P	87	168.1	22.2	0	31.0	432	25
REA	2B872	VT2P,B	87	167.9	22.1	1	30.6	432	26
NK Brand	NK8881-3010A	3010,A	88	167.5	23.2	0	32.5	426	28
Latham	LH4015VT2Pro	VT2P	90	166.8	23.6	0	29.9	423	29
Mustang	3286VT2PRIB	VT2P,B	86	164.0	21.9	0	31.0	423	30
Thunder	6789VT2P	VT2P,B	89	163.1	21.9	0	31.0	420	31
Dekalb	DKC35-88RIB CK	VT2P,B	85	168.5	22.3	0	31.0	433	24
Averages =				169.8	22.8	0	31.3	434	
LSD (0.10) =				11.0	0.9	ns			
LSD (0.25) =				5.8	0.5	ns			
C.V. =				7.1					
Luke Brendemuhl luke.brendemuhl@firstseedtests.com, (218) 790-4497									New test site, no yield history

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Early-Season Test Products (32 Total)

Company/Brand	Product/Brand	Technol.	Seed Trt.	RM	Company/Brand	Product/Brand	Technol.	Seed Trt.	RM
Dairyland	RPM-2918AM	AM,B	CM,C2,R,Lu	85					
Dekalb	DKC35-88RIB CK	VT2P,B	AC,P2	85					
Dyna-Gro	D22VC62	VT2P	AC,P5V	82					
Enestvedt	E843RR	RR2	CM,C2,Vi	85					
Golden Harvest	G80Q01-3110A	3110,A	AVC,C2,Vi	80					
Golden Harvest	G82M47-3220-EZR	3220,B	AVC,C2,Vi	82					
Hefty	H2922VT2P	VT2P	HC	80					
Hefty	H3022VT2P	VT2P	HC	80					
Hefty	H3122VT2P	VT2P	HC	81					
Hefty	H3502VT2PRIB	VT2P,B	HC	85					
Latham	EX3325VT2Pro	VT2P	AC,P5V	83					
Latham	LH3117VT2ProRIB	VT2P,B	AC,P2	81					
Latham	LH3151RR	RR2	AC,P2	81					
Latham	LH3585VT2Pro	VT2P	AC,P5V	85					
Mustang	2283VT2PRIB	VT2P,B	AC,P2	83					
NK Brand	NK8005-3110A	3110,A	AVC,C2,Vi	80					
NK Brand	NK8455-3220A-EZR	3220,A,B	AVC,C2,Vi	84					
NK Brand	NK8519-3110	3110	AVC,C2,Vi	85					
NuTech	5GN-8484	3110,A	MQ,P5V,R	84					
NuTech	5N-183	3000GT	MQ,P5V,R	83					
Partners Brand	PB 4833RR GC	RR2	CM,C2	78					
Partners Brand	PB 5203-3000GT GC	3000GT	CM,C2	82					
Partners Brand	PB 5630-VIP3110 GC	3110	AL2500	84					
Prairie Brand	3218PWRA GC	PC,B	CM,C5,Vi,ln	82					
Proseed	1382VT2PRIB	VT2P,B	AC,P2	82					
Proseed	1385VT2PRIB	VT2P,B	AC,P2	85					
Renk	RK264RR	RR2	AC,P2	85					
Renk	RK270RR	RR2	AC,P2	85					
Thunder	4383VT2P	VT2P,B	AC,P2	83					
Thunder	6782VT2P	VT2P,B	AC,P2	81					
Thunder	6785VT2P	VT2P,B	AC,P2	85					
Thunder	6983VT2P	VT2P	AC,P2	83					

2018 Corn Grain - Red River Valley Central [RRCE]



Full-Season Test Products (40 Total)

Company/Brand	Product/Brand	Technol.	Seed Trt.	RM	Company/Brand	Product/Brand	Technol.	Seed Trt.	RM
Dairyland	DS-9686	3000GT	CM,C5,Vi,In	86					
Dekalb	DKC35-88RIB CK	VT2P,B	AC,P2	85					
Dyna-Gro	D27VC47	VT2P	AC,P5V	87					
Dyna-Gro	D27VC87	VT2P	AC,P5V	87					
Enestvedt	E875RR	RR2	CM,C2,Vi	88					
Enestvedt	E878VT2PRIB	VT2P,B	AC,P2	87					
Golden Harvest	G84J92-3011A	3011,A	AVC,C2,Vi	85					
Golden Harvest	G88F37-3010A	3010,A	AVC,C2,Vi	88					
Golden Harvest	G89A09-3120-EZR	3120,B	AVC,C2,Vi	89					
Hefty	H3622VT2P	VT2P	HC	86					
Hefty	H3712VT2PRIB	VT2P,B	HC	87					
Hefty	H3922VT2P	VT2P	HC	89					
Hefty	H4012VT2PRIB	VT2P,B	HC	90					
Latham	LH3695VT2ProRIB	VT2P,B	AC,P5V	86					
Latham	LH3755VT2ProRIB	VT2P,B	AC,P2	87					
Latham	LH3937VT2ProRIB	VT2P,B	AC,P5V	89					
Latham	LH4015VT2Pro	VT2P	AC,P5V	90					
Mustang	2290VT2PRIB	VT2P,B	AC,P2	90					
Mustang	3286VT2PRIB	VT2P,B	AC,P2	86					
Mustang	3287VT2PRIB	VT2P,B	AC,P2	87					
NK Brand	NK8618-3011A	3011,A	AVC,C2,Vi	86					
NK Brand	NK8881-3010A	3010,A	AVC,C2,Vi	88					
NK Brand	NK8920-3120-EZR	3120,B	AVC,C2,Vi	89					
NuTech	5BN-2889	3010	CM,C2,Vi	89					
NuTech	5N-886	3011,A	MQ,P5V,R	86					
Pioneer	P9188AM GC	AM,B	MQ,C2	91					
Proseed	1689VT2PRIB	VT2P,B	AC,P2	89					
Proseed	1787VT2PRIB	VT2P,B	AC,P2	87					
REA	2B861	VT2P,B	AC,P2	86					
REA	2B872	VT2P,B	AC,P5V	87					
REA	3B891	VT2P,B	AC,P5V	89					
REA	3B902	VT2P,B	AC,P2	90					
Renk	RK287VT2P	VT2P,B	AC,P2	87					
Renk	RK408VT2P	VT2P,B	AC,P2	90					

Footnotes and Abbreviation Descriptions

Brand Footnotes

^	Innotech™ brand seed is distributed by Rob-See-Co, LLC. Phoenix® brand seed is distributed by Advanta Seeds. Power Plus® brand seed is distributed by Burrus. Innotech™ and Phoenix® are trademarks 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*

3000GT	Agrisure® 3000GT (CB,RW,LL,GT)	E	Enlist™ (2,4-D, glyphosate, fop herbicide tolerance)
3010	Agrisure® 3010 (CB,LL,GT)	GT	Agrisure® GT
3011,A	Agrisure® Artesian® (CB,RW,LL,GT)	HX	Herculex® 1, contains LL
3110	Agrisure® Viptera® 3110 (Vip, CB,LL,GT)	HXRW	Herculex® Rootworm, contains LL
3111	Agrisure® Viptera® 3111 (Vip,CB,RW,LL,GT)	HXT	Herculex® Xtra (HX,HXRW,LL)
3120	Agrisure® 3120 (CB,HX,LL,GT)	LL	LibertyLink®
3122	Agrisure® 3122 (CB,HXX,RW,LL,GT)	None	conventional corn
3220	Agrisure® Viptera® 3220 (Vip,CB,HX,LL,GT)	OI	Optimum® Intrasect®, YHR (YGCB,HX,LL,RR2)
A	Agrisure® Artesian®	OIX	Optimum® Intrasect® Xtra, YXR (YGCB,HXT,LL,RR2)
AM	Optimum® AcreMax® (YGCB,HX,LL,RR2)	OIXT	Optimum® Intrasect® Xtreme (YGCB,HXT,RW,LL,RR2)
AMT	Optimum® AcreMax® TRIsect (HX,RW,LL,RR2)	PC	PowerCore™ (HX, VT2P)
AMX	Optimum® AcreMax® Xtra (YGCB,HXT,LL,RR2)	RR2	Roundup Ready® 2 Corn
AMXT	Optimum® AcreMax® Xtreme (YGCB,HXT,RW,LL,RR2)	RW	Agrisure® Rootworm
AQ	Optimum® AQUAMax®	STX	SmartStax® (VT3P,HXT,RR2,LL)
B	Refuge blend product	VT2P	Genuity® VT Double PRO®
CB	Agrisure® Corn Borer	VT3P	Genuity® VT Triple PRO®
DG	Genuity® DroughtGard®	YGCB	YieldGard® Corn Borer

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

Corn Seed Treatments**

?	information not provided	Lu	Lumivia™
A	Allegiance®	M	Maxim XL®
AC	Acceleron® fungicide products	MQ	Maxim Quattro®
AL2500	Alert 2500	None	untreated
At	Actellic®	P2, P5, P1	Poncho® at 0.25, 0.5 and 1.25 mg ai/seed, respectively
AVC	Avicta® Complete Corn	R	Raxil®
C2, C5, C1	Cruiser® at 0.25, 0.5 and 1.25 mg ai/seed, respectively	Sa	Sativa™
CE	Cruiser Extreme®	Se	Sebring™
CM	CruiserMaxx® Corn	Sn	Senator™
D	Dynasty®	Sp	Spirato™
Es	Escalate®	SC	SHIELDCoat™
HC	Hefty Complete	V	Votivo®
In	Intego™ Solo	Vi	Vibrance®
L	Lorsban®		

** Seed treatments may include unspecified plant health promoting components.