

2017 Corn Grain Top 30 Harvest Report

Red River Valley Central [RRCE] MOORHEAD
Curtis Brendemuhl, Clay County, MN 56560



PREV. CROP/HERB: Soybean / glyphosate, Flexstar
SOIL DESCRIPTION: Fargo silty clay, poor drained, non-irrigated
SOIL CONDITION: Strip-till, low P, high K, 5.9 pH, 5.3% OM, 33 CEC
PEST MANAGEMENT: Capreno, atrazine
FERTILITY - Applied N: 40 Fall, 30 Planter, 60 Sidedress
Applied N-P-K (units): 130-52-0
SEEDING - RATE - ROW: Apr 30 34,000 /A 30" spacing
HARVESTED - STAND: Oct 21 32,200 /A

Early-Season Test

82 - 87 Day CRM
B2017RRCE01a

Top 30 of 48

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
NuTech	5N-183	3000GT	83	193.6	15.8	0	32.8	517	1
Latham	LH3695VT2Pro	VT2P	86	189.0	15.5	0	32.8	506	2
NuTech	X5GN-8484	3110,A	84	187.4	14.5	0	32.1	504	3
REA	2B861	VT2P,B	86	187.4	15.8	0	32.1	500	4
Mustang	3287VT2PRIB	VT2P,B	87	186.6	15.5	0	32.1	500	5
Prairie Brand	3218VX	HXT,RR2	82	185.6	15.3	0	31.4	498	6
Hefty	H3712VT2PRIB	VT2P,B	87	183.3	15.3	0	32.1	492	7
Proseed	PX787VT2PRIB	VT2P,B	87	180.6	15.8	0	32.4	482	8
Latham	LH3755VT2Pro	VT2P	87	178.2	16.9	0	31.4	471	13
Miller Hybrids	M87-35	None	87	177.8	17.7	0	32.4	466	15
Dairyland	DS-7185	3220	85	177.1	15.2	0	32.1	476	10
REA	2C872	None	87	176.5	14.9	0	32.4	475	11
Prairie Brand	821CONV GC	None	83	176.2	16.9	0	32.1	466	16
Prairie Brand	3717CONV GC	None	87	175.7	17.1	0	32.4	463	22
Hefty	H3502VT2PRIB	VT2P,B	85	175.4	14.4	0	32.8	472	12
Taylor	EXP 87 GC	VT2P	87	174.3	15.7	0	33.5	466	17
NK Brand	NK8455-3220A-EZR	3220,A,B	84	174.2	14.7	0	31.0	469	14
NuTech/G2 Gen	X5FN-8504^	OI	85	174.2	15.5	0	31.7	466	18
Renk	RK270RR	RR2	85	174.1	16.6	0	31.4	461	23
Dyna-Gro	D26QH53	3010	86	173.0	15.1	0	32.1	465	19
De Dell Seeds	DL 2016 GC	None	85	172.9	16.4	0	32.1	459	24
Hefty	H3302VT2PRIB	VT2P,B	83	172.8	14.3	0	32.4	465	20
Golden Harvest	G85Z56-3110	3110	85	172.8	16.6	0	33.1	458	25
Prairie Brand	3578RA	3220,B	85	172.5	14.3	0	33.1	464	21
Renk	RK287VT2P	VT2P,B	87	172.3	16.6	0	32.4	457	28
Latham	LH3547VT2ProRIB	VT2P,B	85	170.7	15.2	0	32.1	458	26
REA	2B840-RIB	VT2P,B	84	170.1	13.6	0	32.8	458	27
Mustang	3285VT2PRIB	VT2P,B	85	169.7	14.3	0	31.0	456	29
Proseed	GX87-3000GT	3000GT	87	169.5	16.4	0	33.1	450	30
Renk	RK264VT2P	VT2P,B	85	166.4	14.7	0	31.7	448	31
Peterson Seed	74Z87 CK	VT2P,B	87	179.5	15.9	0	31.4	479	9
Averages =				170.2	15.5	0	32.2	455	
LSD (0.10) =				11.9	0.6	ns			
LSD (0.25) =				6.3	0.3	ns			
C.V. =				7.7					
Luke Brendemuhl luke.brendemuhl@firstseedtests.com, (218) 790-4497									Prev. years average yield, 192.0 bu/a, 1 yr

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$2.69; non-GMO = \$2.69

Test Comments: *This test site was planted into slightly wet conditions, and with a dry start after planting, it slowed corn emergence in this heavy soil. Despite the slow start, it was an exceptional stand. The test received pea sized hail causing minor damage. Ears were filled with kernels to the tips, even though summer was drier than average. Perhaps the clay soils held more moisture than sandier valley soils.*

† 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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 HARVESTED - STAND: Oct 21 32,000 /A

Full-Season Test
88 - 91 Day CRM
 B2017RRCE01b

Top 30 of 36
 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
Enestvedt	E612	None	92	198.5	20.2	0	32.4	508	1
Partners Brand	PB 6255 GC	None	92	192.9	19.5	0	32.1	497	2
REA	3B902	VT2P,B	90	185.4	17.4	0	32.1	488	4
Hefty	H4012VT2P	VT2P	90	185.3	19.1	0	32.1	479	5
Partners Brand	PB 6003 GC	None	90	183.3	19.4	0	31.4	473	8
Mustang	4291VT2PRIB	VT2P,B	91	181.1	18.3	0	32.4	472	9
Thunder	4791RR	RR2	91	180.1	18.1	0	32.4	471	10
Thunder	6789VT2PRIB	VT2P,B	89	179.7	17.1	0	31.7	474	6
Taylor	T8291RIB GC	VT2P,B	91	179.4	19.7	0	31.0	462	15
Latham	LH4097VT2ProRIB	VT2P,B	90	179.2	18.8	0	31.7	465	12
Anderson	7422	None	92	178.8	20.1	0	31.7	458	17
De Dell Seeds	DL 1445 GC	None	89	178.2	18.2	0	32.4	465	13
Renk	RK408RR	RR2	90	178.1	18.4	0	31.7	464	14
Hefty	H4102VT2PRIB	VT2P,B	91	178.0	19.5	0	32.1	459	16
Hefty	H3902VT2PRIB	VT2P,B	89	177.0	15.4	0	32.4	474	7
NK Brand	NK9227-3110A	3110,A	92	176.4	18.9	0	32.1	457	18
Thunder	6791VT2PRIB	VT2P,B	91	176.0	19.4	0	32.1	454	20
Mustang	2289VT2PRIB	VT2P,B	89	175.6	16.5	0	31.7	466	11
Proseed	PX790VT2PRIB	VT2P,B	90	175.2	20.1	0	32.4	449	21
Proseed	1591VT2PRIB	VT2P,B	91	174.8	18.2	0	32.4	456	19
Latham	LH3937VT2Pro	VT2P	89	171.9	19.6	0	31.4	443	24
De Dell Seeds	DL 1389 GC	None	89	171.3	20.0	0	31.7	439	27
Dairyland	DS-9090SSX	STX	90	170.9	18.4	0	31.4	445	23
Latham	LH4147VT2ProRIB	VT2P,B	91	169.6	18.6	0	32.4	441	26
NK Brand	NK8920-3010	3010	89	169.5	17.1	0	32.1	447	22
REA	3B910	VT2P,B	91	168.7	17.8	0	32.4	442	25
Mustang	2290VT2PRIB	VT2P,B	90	166.8	17.4	0	31.7	439	28
Miller Hybrids	RX91-03	None	91	166.5	17.8	0	32.4	436	30
Taylor	T8189 GC	VT2P	89	165.4	16.7	0	33.1	438	29
Proseed	1689VT2PRIB	VT2P,B	89	163.8	16.1	0	32.1	436	31
Peterson Seed	74Z87 CK	VT2P,B	87	185.2	15.9	0	31.7	494	3
Averages =				175.3	18.5	0	32.0	456	
LSD (0.10) =				9.7	0.7	x			
LSD (0.25) =				5.1	0.4	ns			
C.V. =				6.1					
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Early-Season Test Products (48 Total)

Company/Brand	Product/Brand	Technol.	Seed Trt.	RM	Company/Brand	Product/Brand	Technol.	Seed Trt.	RM
Channel	182-62VT2PRIB GC	VT2P,B	AC,P2	82	Thunder	4383VT2PRIB	VT2P,B	AC,P2	83
Channel	183-22R GC	RR2	AC,P2	83	Thunder	4585RR	RR2	AC,P2	85
Channel	186-31VT2PRIB GC	VT2P,B	AC,P2	86	Thunder	6785VT2PRIB	VT2P,B	AC,P2	85
Dairyland	DS-7185	3220	AVC,C2,Vi,In	85					
Dairyland	DS-9686	3000GT	AVC,C2,Vi	86					
De Dell Seeds	DL 1111 GC	None	MQ	83					
De Dell Seeds	DL 2016 GC	None	MQ	85					
Dyna-Gro	D25VC66	VT2P	AC,P5V	85					
Dyna-Gro	D26QH53	3010	AVC,C2,Vi	86					
Enestvedt	E856	None	CM,C2,Vi	85					
Golden Harvest	G84J92-3011A	3011,A	AVC,C2,Vi	84					
Golden Harvest	G85Z56-3110	3110	AVC,C2,Vi	85					
Hefty	H3202VT2PRIB	VT2P,B	AC,P2,In	82					
Hefty	H3302VT2PRIB	VT2P,B	AC,P2,In	83					
Hefty	H3502VT2PRIB	VT2P,B	AC,P2,In	85					
Hefty	H3712VT2PRIB	VT2P,B	AC,P2,In	87					
Latham	LH3487VT2Pro	VT2P	AC,P5V	84					
Latham	LH3547VT2ProRIB	VT2P,B	AC,P2	85					
Latham	LH3695VT2Pro	VT2P	AC,P5V	86					
Latham	LH3755VT2Pro	VT2P	AC,P5V	87					
Miller Hybrids	M87-35	None	CM,C2	87					
Mustang	2282VT2PRIB	VT2P,B	AC,P2	82					
Mustang	3285VT2PRIB	VT2P,B	AC,P2	85					
Mustang	3287VT2PRIB	VT2P,B	AC,P2	87					
NK Brand	NK8455-3220A-EZR	3220,A,B	AVC,C2,Vi	84					
NuTech	5N-183	3000GT	MQ,P5V,R	83					
NuTech	5N-886	3000GT	MQ,P5V,R	86					
NuTech	X5GN-8484	3110,A	MQ,P5V,R	84					
NuTech/G2 Gen	X5FN-8504^	OI	MQ,P1V,R	85					
Peterson Seed	74Z87 CK	VT2P,B	AC,P2	87					
Prairie Brand	3218VX	HXT,RR2	CM,C5,Vi,In	82					
Prairie Brand	3578RA	3220,B	AVC,C5,Vi	85					
Prairie Brand	3717CONV GC	None	CM,C2,Vi	87					
Prairie Brand	821CONV GC	None	CM,C2,Vi	83					
Proseed	1382VT2PRIB	VT2P,B	AC,P2	82					
Proseed	1383GT	GT	CM,C2	83					
Proseed	GX87-3000GT	3000GT	CM,C2	87					
Proseed	PX787VT2PRIB	VT2P,B	AC,P2	87					
REA	2B840-RIB	VT2P,B	AC,P5V	84					
REA	2B861	VT2P,B	AC,P5V	86					
REA	2C872	None	AC,P5V	87					
Renk	RK264VT2P	VT2P,B	AC,P2	85					
Renk	RK270RR	RR2	AC,P2	85					
Renk	RK287VT2P	VT2P,B	AC,P2	87					
Taylor	EXP 87 GC	VT2P	AC,P5V	87					

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Full-Season Test Products (36 Total)

Company/Brand	Product/Brand	Technol.	Seed Trt.	RM	Company/Brand	Product/Brand	Technol.	Seed Trt.	RM
Anderson	7422	None	MQ	92					
Dairyland	DS-6091	RR2	CM,C2	91					
Dairyland	DS-9090SSX	STX	CM,C5,Vi,In	90					
De Dell Seeds	DL 1389 GC	None	MQ	89					
De Dell Seeds	DL 1445 GC	None	MQ	89					
De Dell Seeds	DL 3146 GC	None	MQ	92					
Enestvedt	E612	None	CM,C2,Vi	92					
Hefty	H3902VT2PRIB	VT2P,B	AC,P2,In	89					
Hefty	H4012VT2P	VT2P	AC,P2,In	90					
Hefty	H4102VT2PRIB	VT2P,B	AC,P2,In	91					
Latham	LH3877VT2ProRIB	VT2P,B	AC,P2	88					
Latham	LH3937VT2Pro	VT2P	AC,P5V	89					
Latham	LH4097VT2ProRIB	VT2P,B	AC,P2	90					
Latham	LH4147VT2ProRIB	VT2P,B	AC,P2	91					
Miller Hybrids	RX91-03	None	CM,C2	91					
Mustang	2289VT2PRIB	VT2P,B	AC,P2	89					
Mustang	2290VT2PRIB	VT2P,B	AC,P2	90					
Mustang	4291VT2PRIB	VT2P,B	AC,P2	91					
NK Brand	NK8920-3010	3010	AVC,C2,Vi	89					
NK Brand	NK9227-3110A	3110,A	AVC,C2,Vi	92					
NuTech/G2 Gen	5F-091^	AM,B	MQ,P5V,R	91					
Partners Brand	PB 6003 GC	None	CM,C2	90					
Partners Brand	PB 6255 GC	None	AL2500	92					
Peterson Seed	74Z87 CK	VT2P,B	AC,P2	87					
Prairie Brand	4037CONV GC	None	CM,C2,Vi	91					
Proseed	1591VT2PRIB	VT2P,B	AC,P2	91					
Proseed	1689VT2PRIB	VT2P,B	AC,P2	89					
Proseed	PX790VT2PRIB	VT2P,B	AC,P2	90					
REA	3B902	VT2P,B	AC,P5V	90					
REA	3B910	VT2P,B	AC,P5V	91					
Renk	RK408RR	RR2	AC,P2	90					
Taylor	T8189 GC	VT2P	AC,P2	89					
Taylor	T8291RIB GC	VT2P,B	AC,P2	91					
Thunder	4791RR	RR2	AC,P2	91					
Thunder	6789VT2PRIB	VT2P,B	AC,P2	89					
Thunder	6791VT2PRIB	VT2P,B	AC,P2	91					

Footnotes and Abbreviation Descriptions

Brand Footnotes

^	G2 [®] brand seed is distributed by NuTech Seed, LLC. Catalyst™ and Power Plus [®] brand seed is distributed by Burrus. HPT [®] brand seed is distributed by Hoegemeyer Hybrids, Innotech™ brand seed is distributed by Rob-See-Co, LLC. RPM [®] brand seed is distributed by Doebler's PA Hybrids, Inc. Supreme EX [®] brand seed is distributed by Seed Consultants, Inc. VPMa [®] brand seed is distributed by AgVenture, Inc. XL [®] and Phoenix [®] brand seed is distributed by Beck's Superior Hybrids. Curry [®] , G2 [®] , HPT [®] , Power Plus [®] , RPM [®] , Supreme EX [®] , VPMa [®] and XL [®] are registered trademarks of DuPont Pioneer. Catalyst™, Innotech™ and Phoenix [®] are trademarks of Syngenta.
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)	GT	Agrisure [®] GT
3010	Agrisure [®] 3010 (CB,LL,GT)	HX	Herculex [®] 1, contains LL
3011,A	Agrisure [®] Artesian [®] (CB,RW,LL,GT)	HXRW	Herculex [®] Rootworm, contains LL
3110	Agrisure [®] Viptera [®] 3110 (Vip, CB,LL,GT)	HXT	Herculex [®] Xtra (HX,HXRW,LL)
3111	Agrisure [®] Viptera [®] 3111 (Vip,CB,RW,LL,GT)	LL	LibertyLink [®]
3120	Agrisure [®] 3120 (CB,HX,LL,GT)	None	conventional corn
3122	Agrisure [®] 3122 (CB,HXX,RW,LL,GT)	OI	Optimum [®] Intrasect [®] , YHR (YGCB,HX,LL,RR2)
3220	Agrisure [®] Viptera [®] 3220 (Vip,CB,HX,LL,GT)	OIX	Optimum [®] Intrasect [®] Xtra, YXR (YGCB,HXT,LL,RR2)
A	Agrisure [®] Artesian [®]	OIXT	Optimum [®] Intrasect [®] Xtreme (YGCB,HXT,RW,LL,RR2)
AM	Optimum [®] AcreMax [®] (YGCB,HX,LL,RR2)	PC	PowerCore™ (HX, VT2P)
AMT	Optimum [®] AcreMax [®] TRIsect (HX,RW,LL,RR2)	RR2	Roundup Ready [®] 2 Corn
AMX	Optimum [®] AcreMax [®] Xtra (YGCB,HXT,LL,RR2)	RW	Agrisure [®] Rootworm
AMXT	Optimum [®] AcreMax [®] Xtreme (YGCB,HXT,RW,LL,RR2)	STX	SmartStax [®] (VT3P,HXT,RR2,LL)
AQ	Optimum [®] AQUAMax [®]	VT2P	Genuity [®] VT Double PRO [®]
B	Refuge Blend	VT3P	Genuity [®] VT Triple PRO [®]
CB	Agrisure [®] Corn Borer	YGCB	YieldGard [®] Corn Borer
DG	Genuity [®] DroughtGard [®]		

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

Corn Seed Treatments**

?	information unavailable	In	Intego™ Solo
A	Allegiance [®]	L	Lorsban [®]
AC	Accelaron [®] fungicide products	Lu	Lumivia™
AL2500	Alert 2500™	M	Maxim XL [®]
At	Actellic [®]	MQ	Maxim Quattro [®]
AVC	Avicta [®] Complete Corn	None	untreated
C2, C5, C1	Cruiser [®] at 0.25, 0.5 and 1.25 mg ai/seed, respectively	P2, P5, P1	Poncho [®] at 0.25, 0.5 and 1.25 mg ai/seed, respectively
CE	Cruiser Extreme [®]	R	Raxil [®]
CM	CruiserMaxx [®] Corn	SC	SHIELDCoat™
D	Dynasty [®]	V	Votivo [®]
Es	Escalate [®]	Vi	Vibrance [®]

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