

Test by: NewVenture, LLC Ellendale, MN

2019 Corn Grain Top 30 Harvest Report

Minnesota West Central [MNWC] CLINTON, MN

Doug Nelson, Big Stone County, MN 56225

Early-Season Test	93 - 98 Day CRM B2019MNWC01a
Top 30 of 54	For Gross Income (Sorted by Yield) Average of (2) Replications
PREV. CROP/HERB:	Soybean / NA
SOIL DESCRIPTION:	Fram-Vallers-Parnell Complex loam, mod. poorly drained, non- irrigated
SOIL CONDITION:	Conventional W/ Fall Till, medium P, low K, 7.1 pH, 3.6% OM, 22.5 CEC
PEST MANAGEMENT:	Force, Surestart, Callisto, Rundup
FERTILITY - Applied N:	150 Spring
Applied N-P-K (units):	150-50-30
SEEDED - RATE - ROW:	May 30 35.1 /A 30" spacing
HARVESTED - STAND:	Nov 6 34.0 /A

TEST COMMENTS:

This site was planted in near perfect conditions. Doug, our host farmer, said that about 3 weeks ago there was a wind event that had 50 MPH sustained wind with gusts over 60 MPH. This caused wide spread and substantial lodging. The corn was laying directly across the rows, so harvesting in only 1 direction was not an option. He also stated that the rain really never stopped during the growing season. The data was rejected due to severe damage and data loss in some or all of the replicates.

Company/Brand	Product/Brand	Treatment	SN	Yield Bu/A	Moisture %	Lodging %	Stand In 2019	Gross Income \$/Acre	Rank
HEFTY	HEFTYTOP	VTOP	93	182.3	19.2	8	34.8	571	1
RENA	RENA100TOP	VTOP	98	188.8	19.7	1	34.1	679	2
THUNDER	888 VTOP	VTOPB	98	188.4	21.5	31	32.7	669	4
TOTAL PRO	80-88 ZP	VTOPB	98	185.2	20.8	25	34.1	668	5
DARTLAND	DS-27588	AA-B	98	185.1	19.1	37	34.1	675	3
DARTLAND	DS-27588	AA	98	183.2	20.8	25	34.8	664	6
FEDERAL	488VTOPB	VTOPB	93	179.9	21.9	37	34.1	645	8
THUNDER	888 VTOP	VTOPB	98	179.7	19.9	37	34.1	638	9
PROCEED	188VTOPB	VTOPB	98	179.2	21.9	37	34.4	632	10
FEDERAL	488VTOPB	VTOPB	93	174.3	21.1	37	34.1	629	12
RENA	RENA100TOP	VTOPB	98	172.1	19.1	37	34.1	625	13
THUNDER	888 VTOP	VTOPB	93	171.9	19.8	8	34.8	630	11
FEDERAL	488VTOPB	VTOPB	98	172.4	20.7	37	32.7	622	16
RENA	RENA100TOP	VTOPB	98	172.1	19.8	2	34.8	625	14
DARTLAND	DS-27588	AA-B	98	171.0	19.0	38	34.1	623	15
RENA	RENA100TOP	VTOPB	93	170.0	20.1	18	32.4	616	18
LETHAM	LETHAMVTOPB	VTOPB	98	169.8	21.0	15	34.8	612	20
TOTAL PRO	80-88 ZP	VTOPB	94	169.7	19.1	40	32.4	619	17
DARTLAND	DS-27588	VTOPB	98	169.2	19.9	0	32.4	614	19
PROCEED	188VTOPB	VTOPB	98	168.9	20.0	20	32.4	610	21
HEFTY	HEFTYTOP	VTOPB	98	168.7	20.8	18	32.4	602	22
THUNDER	888 VTOP	VTOPB	98	168.6	21.0	32	34.1	600	23
DARTLAND	DS-27588	VTOPB	98	168.0	20.8	40	34.1	598	25
EMERLEAF	EMERLEAF	VTOPB	98	168.8	20.3	9	34.1	600	24
AUGUSTA	ACM	SO2L8	98	165.0	20.4	38	32.4	596	26
MR BRAND	MR878-SO2L-82M	SO2L8	97	163.3	20.4	37	31.9	590	27
LETHAM	LETHAMVTOPB	VTOPB	98	162.4	20.9	2	34.1	585	28
TOTAL PRO	80-88 ZP	VTOPB	98	161.0	21.3	40	34.1	576	30
DARTLAND	DS-27588	VTOPB	98	159.8	20.7	15	34.8	577	31
SOLARA HARVEST	SOLARA 3010	3010	98	159.1	19.3	34	34.8	581	29
PROCEED	188VTOPB	VTOPB	93	157.0	21.1	37	34.1	570	32

REJECTED

Averages = **158.6** **20.2** **36** **34.0** **574**
 LSD (0.10) = 28.0 0.8 ns
 LSD (0.25) = 14.7 0.4 ns
 C.V. = 13.6

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Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$3.75

Report Date: 11/07/2019

Additional reports available at www.firstseedtests.com

† 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 Grain Top 30 Harvest Report

Minnesota West Central [MNWC] CLINTON, MN
Doug Nelson, Big Stone County, MN 56225

Full-Season Test	99 - 102 Day CRM B2019MNWC01b
Top 30 of 45	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybean / NA
SOIL DESCRIPTION:	Fram-Vallers-Parnell Complex loam, mod. poorly drained, non- irrigated
SOIL CONDITION:	Conventional W/ Fall Till, medium P, low K, 7.1 pH, 3.6% OM, 22.5 CEC
PEST MANAGEMENT:	Force, Surestart, Callisto, Rundup
FERTILITY - Applied N:	150 Spring
Applied N-P-K (units):	150-50-30
SEEDED - RATE - ROW:	May 30 35.1 /A 30" spacing
HARVESTED - STAND:	Nov 6 33.7 /A

TEST COMMENTS:

This site was planted in near perfect conditions. Doug, our host farmer, said that about 3 weeks ago there was a wind event that had 50 MPH sustained wind with gusts over 60 MPH. This caused wide spread and substantial lodging. The corn was laying directly across the rows, so harvesting in only 1 direction was not an option. He also stated that the rain really never stopped during the growing season. The data was rejected due to severe damage and data loss in some or all of the replicates.

Company/Brand	Product/Brand	Tested 1	SN	Yield Bu/30	Moisture %	Lodging %	Stand in 2019	Gross Income \$/acre	Rank
HEINE	888V2PND GC	VTOP	99	184.8	21.3	9	34.1	884	1
HEFTY	888V2PNDGC	VTOPDLB	99	182.7	20.9	7	34.1	888	2
EMSTVEST	888P ND	VTOP	99	178.4	20.9	4	34.1	848	4
FEDERAL	888VTOP	VTOP	100	178.5	21.8	32	34.3	837	7
TITAN PRO	888V2P	VTOP	99	177.7	20.2	33	34.3	843	5
LATHAM	888V2PNDGC	VTOP	99	177.1	20.2	7	34.3	841	6
GOLD COUNTRY	101-8888	87LB	100	177.0	21.3	2	34.7	839	10
FEDERAL	888V2PND	VTOP	99	176.7	21.8	31	34.3	835	11
HEFTY	888V2PND	VTOP	99	174.3	20.9	3	34.8	829	9
THUNDER	888 VTOP	VTOP	100	173.9	21.9	3	33.4	821	8
PIONEER	888V2PND GC	VTOP	99	173.1	21.9	3	34.1	822	12
GOLD COUNTRY	88-8888	87LB	99	172.8	21.3	3	34.3	814	13
GOLD COUNTRY	102-8888	87LB	100	167.8	21.9	5	34.8	801	15
FEDERAL	888V2PND	VTOP	99	166.2	20.8	22	33.8	802	14
HEINE	888V887A	87LB	100	165.9	22.4	82	34.1	800	16
TITAN PRO	888V2P ND	87LB	100	163.4	21.2	9	33.4	800	17
FEDERAL	888V887A	87LB	100	163.0	21.8	25	34.1	804	18
MR BRAND	888V2PND GC	VTOP	100	162.1	21.9	48	33.8	801	19
GOLD COUNTRY	102-888P	VTOP	100	161.8	22.1	34	32.7	879	20
EMSTVEST	888V2P ND	VTOP	100	160.0	21.8	33	33.4	873	21
MR BRAND	888V2P	VTOP	99	157.8	21.9	58	33.8	888	22
DAVLAN	888V2PND	87LB	100	156.8	21.3	20	33.8	884	23
ANDERSON	888V2PND	87LB	100	156.8	22.3	33	34.8	888	25
GOLDEN HARVEST	888V2PND GC	VTOP	100	155.4	21.8	57	34.1	888	26
THUNDER	888V2P	VTOP	100	154.8	21.1	18	34.8	887	24
DARTLAND	888V2PND GC	VTOP	101	148.7	22.0	51	32.4	835	27
DEKALB	888V2PND GC	87LB	100	147.8	22.9	38	33.4	825	28
DAVLAN	888V2PNDGC	VTOP	101	146.5	21.1	65	34.1	823	29
LATHAM	888V2P VTOP	VTOP	100	144.2	21.9	28	32.8	817	30
AGUSTA	888V2P	VTOP	100	143.8	21.7	48	34.1	815	31
PIONEER	888V2PND GC	VTOP	100	143.3	21.3	7	33.7	815	32

REJECTED

Averages = **153.3** **21.3** **36** **33.7** **551**
 LSD (0.10) = 23.9 0.5 ns
 LSD (0.25) = 12.5 0.3 ns
 C.V. = 14.7

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Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$3.75

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2019 Corn - Minnesota West Central [MNWC]



Early-Season Test Products (54 Total)

Company/Brand	Product/Brand	Technology	RM
ANDERSON	609R	RR2	98
ANDERSON	609VT2P	VT2P,B	98
AUGUSTA	A2345	3220,B	96
DAHLMAN	R47-26VT2PRIB	VT2P,B	94
DAHLMAN	R48-21VT2PRIB	VT2P,B	96
DAHLMAN	R48-28VT2PRIB	VT2P,B	95
DAHLMAN	R49-23VT2PRIB	VT2P,B	98
DAHLMAN	R49-25VT2PRIB	VT2P,B	98
DAIRYLAND	DS-3519AM	AM,B	96
DAIRYLAND	DS-3550AM	AM	95
DAIRYLAND	DS-3715AM	AM,B	98
DAIRYLAND	DS-3750AM	AM	97
DAIRYLAND	DS-3810AM	AM	98
DEKALB	DKC47-54 RIB GC	STX,B	97
DYNA-GRO	D37VC64	VT2P	97
DYNA-GRO	D39VC40	VT2P	98
ENESTVEDT	E658DP RIB	VT2P,B	96
ENESTVEDT	E660SS RIB	STX,B	97
FEDERAL	4580VT2PRIB	VT2P,B	95
FEDERAL	4680VT2PRIB	VT2P,B	96
FEDERAL	4805SSTAX	STX	98
FEDERAL	4880VT2PRIB	VT2P,B	98
GOLDEN HARVEST	G95M41-3010	3010	95
GOLDEN HARVEST	G97N86-3220-EZR	3220,B	97
HEFTY	H4332VT2P	VT2P	93
HEFTY	H4522VT2PRIB	VT2P,B	95
HEFTY	H4612VT2PRIB	VT2P,B	96
HEFTY	H4732VT2P	VT2P	97
HEFTY	H4812VT2PRIB	VT2P,B	98
HEINE	6200VT2PRORIB GC	VT2P,B	95
LATHAM	LH4375VT2PRIB	VT2P,B	93
LATHAM	LH4437VT2PRIB	VT2P,B	94
LATHAM	LH4517VT2PRIB	VT2P,B	95
LATHAM	LH4657VT2PRIB	VT2P,B	96
LATHAM	LH4795VT2PRIB	VT2P,B	97
NK BRAND	NK9227-3220A-EZR	3220,A,B	92

Company/Brand	Brand/Product	Technology	RM
NK BRAND	NK9610-3010	3010	96
NK BRAND	NK9738-3220-EZR	3220,B	97
PIONEER	P0157AMXT CK	AMXT,AQ,B	101
PIONEER	P9492AM GC	AM,B	94
PROSEED	1996VT2PRIB	VT2P,B	96
PROSEED	1998VT2PRIB	VT2P,B	98
RENK	RK561DGV2P	VT2P,DG	95
RENK	RK579DGV2P	VT2P,DG,B	98
RENK	RK587VT2P	VT2P,B	97
RENK	RK593VT2P	VT2P	96
THUNDER	6094 VT2P	VT2P,B	94
THUNDER	6098 VT2P	VT2P,B	98
THUNDER	6595 VT2P	VT2P,B	95
THUNDER	6993 VT2P	VT2P,B	93
THUNDER	6996 VT2P	VT2P,B	96
TITAN PRO	82-95 2P	VT2P,B	95
TITAN PRO	86-96 2P	VT2P,B	96
TITAN PRO	90-94 2P	VT2P,B	94

2019 Corn - Minnesota West Central [MNWC]



Full-Season Test Products (45 Total)

Company/Brand	Product/Brand	Technology	RM
ANDERSON	611SRC	STX,B	100
ANDERSON	611VT2P	VT2P,B	100
AUGUSTA	A3052	3110	102
DAHLMAN	R50-357SSRIB	STX,B	100
DAHLMAN	R51-22VT2PRIB	VT2P,B	101
DAHLMAN	R52-24VT2PRIB	VT2P,B	103
DAIRYLAND	DS-4000AMXT	AMXT	101
DAIRYLAND	DS-4018AM	AM,AQ,B	101
DAIRYLAND	DS-4019AM	AM,B	99
DEKALB	DKC50-08RIB GC	STX,B	100
ENESTVEDT	E696SS RIB	STX,B	100
ENESTVEDT	E699DP RIB	VT2P,B	99
FEDERAL	4880SSTAX	STX,B	99
FEDERAL	4990VT2PRIB	VT2P,B	99
FEDERAL	5000VT2P	VT2P	100
FEDERAL	5280VT2PRIB	VT2P,B	102
GOLD COUNTRY	101-60RSS	STX,B	101
GOLD COUNTRY	102-07RSS	STX,B	102
GOLD COUNTRY	102-88R2P	VT2P,B	102
GOLD COUNTRY	99-30RSS	STX,B	99
GOLDEN HARVEST	G00H12-3010	3010	100
GOLDEN HARVEST	G02K39-3120-EZR	3120,B	102
HEFTY	H4922VT2PRIB	VT2P,B	99
HEFTY	H4933VT2PDGRIB	VT2P,DG,B	99
HEFTY	H5132VT2P	VT2P	101
HEFTY	H5212VT2PRIB	VT2P,B	102
HEINE	6550VT2PRO GC	VT2P	99
INTEGRA	5081 GC	VT2P,DG,B	100
LATHAM	EX 5035 VT2P	VT2P	100
LATHAM	LH4937VT2PRIB	VT2P,B	99
LATHAM	LH5025VT2PDGRIB	VT2P,DG,B	100
LATHAM	LH5245VT2PRIB	VT2P,B	102
LATHAM	LH5377VT2PRIB	VT2P,B	100
NK BRAND	NK0243-3120-EZR	3120,B	102
NK BRAND	NK9930-3010	3010	99
PIONEER	P0157AMXT CK	AMXT,AQ,B	101

Company/Brand	Brand/Product	Technology	RM
PIONEER	P9998AMXT GC	AMXT,AQ,B	99
RENK	RK604SSTX	STX,B	102
RENK	RK608DGV2P	VT2P,DG,B	100
RENK	RK621VT2P	VT2P	102
RENK	RK626SSTX	STX	102
THUNDER	6902 VT2P	VT2P,B	102
THUNDER	6999 VT2P	VT2P,B	99
TITAN PRO	92-99 2P	VT2P,B	99
TITAN PRO	TP 75-01 SS	STX,B	101

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® TRIssect (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.