

Test by: Southern MN FIRST New Richland, MN

2019 Corn Grain Top 30 Harvest Report

Minnesota Southwest [MNSW] JEFFERS, MN
Rick Quade, Cottonwood County, MN 56083

Early-Season Test	96 - 101 Day CRM B2019MNSW03a
Top 30 of 72	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybean / Sonic, Roundup
SOIL DESCRIPTION:	Webster clay loam, moderately drained, non-irrigated
SOIL CONDITION:	Conventional W/O Fall Till, high P, low K, 5.8 pH, 5.2% OM, 32.7 CEC
PEST MANAGEMENT:	Force, Surestart, Laudis, Atrazine
FERTILITY - Applied N:	157 Spring
Applied N-P-K (units):	157-90-90
SEEDED - RATE - ROW:	May 16 35.3 /A 30" spacing
HARVESTED - STAND:	Oct 28 32.5 /A

TEST COMMENTS:

Another late spring in this area delayed planting. Rick states it was wet all year, but this site only had one big rain -- 2.5" on July 20th. This rain was accompanied by sustained winds of 60 mph on July 20, causing green snap and lodging across this plot. Another high wind event occurred in August. Plot yields and moistures were greatly affected by lodging, and soil saturation through harvest. The full-season test was rejected due to high variability.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
CHAMPION	50A19 VT2	VT2P,B	100	225.1	21.3	6	33.9	765	1
HEFTY	H5132VT2P	VT2P	101	223.9	20.9	12	32.6	765	2
CHAMPION	49A20 VT2	VT2P,B	99	219.0	20.6	6	33.5	751	3
FEDERAL	4990VT2PRIB	VT2P,B	99	218.4	20.9	9	33.5	746	4
LATHAM	LH4830	None	98	217.0	20.4	5	33.5	745	5
FEDERAL	5280CONV	None	101	215.4	21.2	6	33.0	733	6
TITAN PRO	84-01	None	101	214.7	21.0	5	33.0	732	7
ANDERSON	609R	RR2	98	209.5	20.5	16	33.9	718	8
RENK	RK579DGV2P	VT2P,DG,B	98	209.5	21.1	10	34.0	713	10
NORTHSTAR	NS 94-162VT2PRIB	VT2P,B	94	209.3	20.4	8	32.1	718	9
HEFTY	H4933VT2PDGRIB	VT2P,DG,B	99	208.1	20.6	5	33.5	713	11
EPLEY	E9840	None	98	205.9	20.4	6	32.1	707	14
LATHAM	LH4937VT2PRIB	VT2P,B	99	205.4	19.4	5	33.5	713	12
ENESTVEDT	E699DP RIB	VT2P,B	99	204.6	20.0	5	33.0	706	15
NK BRAND	NK9610-3010	3010	96	204.5	20.2	4	33.0	704	16
WYFFELS	W2196RIB	VT2P,B	99	204.0	20.8	3	33.5	697	17
HEINE	6500VT2PRO	VT2P	99	203.6	19.3	4	32.6	709	13
LATHAM	EX 5035 VT2P	VT2P	100	203.3	20.7	12	32.6	696	19
HEINE	7000STX	STX	100	202.2	21.9	5	32.6	682	21
AUGUSTA	A2345	3220,B	96	201.3	19.8	20	33.5	696	20
HEFTY	H4922VT2PRIB	VT2P,B	99	200.8	19.5	3	33.0	697	18
HEINE	EXP 7010	VT2P	100	200.4	21.1	14	30.3	682	22
DAIRYLAND	DS-3519AM	AM,B	96	196.8	19.6	19	32.6	682	23
HEFTY	H4732VT2P	VT2P	97	196.2	20.6	7	32.1	672	27
RENK	RK593VT2P	VT2P	96	195.7	20.2	6	33.5	674	26
VIKING	44-98	None	98	195.5	20.3	6	33.9	672	28
TITAN PRO	85-96	None	96	195.3	19.9	10	32.6	675	24
GOLD COUNTRY	99-30RSS	STX,B	99	195.3	20.4	8	33.0	671	29
MILLER HYBRIDS	M97-34	None	97	194.7	19.6	3	33.5	675	25
NORTHSTAR	NS 98-513VT2PRIB	VT2P,B	98	193.0	19.7	10	32.6	668	30
PIONEER	P0157AMXT CK	AMXT,AQ,B	101	186.5	22.2	6	31.7	627	51

Mark Querna

Mark Querna

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Averages =	190.0	20.7	11	32.5	651
LSD (0.10) =	23.2	0.8	11		
LSD (0.25) =	12.2	0.4	6		
C.V. =	11.6				

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.4 Drying = \$0.04 Prices: GMO = \$3.65; non-GMO = \$3.65

Report Date: 10/29/2019

† 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 Grain Top 30 Harvest Report

Minnesota Southwest [MNSW] JEFFERS, MN

Rick Quade, Cottonwood County, MN 56083

Full-Season Test	102 - 106 Day CRM B2019MNSW03b
Top 30 of 66	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybean / Sonic, Roundup
SOIL DESCRIPTION:	Webster clay loam , moderately drained
SOIL CONDITION:	Conventional W/O Fall Till, high P, low K, 5.8 pH, 5.2% OM, 32.7 CEC
PEST MANAGEMENT:	Force, Surestart, Laudis, Atrazine
FERTILITY - Applied N:	157 Spring
Applied N-P-K (units):	157-90-90
SEEDED - RATE - ROW:	May 16 35.3 /A 30" spacing
HARVESTED - STAND:	Oct 28 32.4 /A

TEST COMMENTS:

Another late spring in this area delayed planting. Rick states it was wet all year, but this site only had one big rain -- 2.5" on July 20th. This rain was accompanied by sustained winds of 60 mph on July 20, causing green snap and lodging across this plot. Another high wind event occurred in August. Plot yields and moistures were greatly affected by lodging, and soil saturation through harvest. The full-season test was rejected due to high variability.

Company/Brand	Product/Brand	Yield †	Moisture %	Lodging %	Stand in 2019	Gross Income \$/acre	Rank	
LATHAM	LH6848 3200-62N	3201.8	22.9	5	31.7	748	1	
MR BRAND	MR6824 3200-62N	3201.8	22.7	7	33.0	738	2	
TOTAL PRO	TP 75-88	None	21.8	13	33.8	737	3	
DARTLAND	DS 7509A	PLB	218.8	22.6	7	30.3	732	4
CHAMPION	CH420 3200-62	3201.8	23.1	7	31.7	712	7	
LATHAM	LH6847V2P9B	V2P9B	211.2	21.7	4	33.5	714	6
HEINE	HE12V2P9B	V2P9B	211.1	21.1	1	33.1	718	5
DARTLAND	DS 4209A	AKB	216.1	21.1	1	33.1	710	8
HEFTY	HE22V2P9B	V2P9B	217.4	21.1	1	33.8	708	9
MR BRAND	MR6843 3200-62N	3201.8	22.0	5	33.8	695	10	
LATHAM	LH6847V2P9B	V2P9B	211.4	21.4	4	32.8	691	11
WHITELE	WH6898	AKB	211.8	21.1	3	32.1	685	12
HEINE	HE12V2P9B	V2P9B	212.2	21.2	1	34.4	685	13
AUGUSTA	AUG62	AKB	211.8	22.9	7	32.1	678	18
CHAMPION	CH418 3200-62	V2P9B	211.4	21.8	5	31.7	682	14
HEINE	HE12V2P9B	V2P9B	211.2	21.8	5	31.7	678	15
NORTHEM	NE 100-88V2P	V2P9B	205.1	21.8	3	32.8	678	16
VRING	VR-82	None	198.8	22.2	5	31.7	672	21
AUGUSTA	AUG62	AKB	198.5	21.5	5	32.8	678	19
HEINE	HE12V2P9B	V2P9B	198.2	21.2	5	32.1	678	17
DARTLAND	DS 4209A	AKB	198.1	22.5	14	33.8	687	20
VRING	None	None	197.8	23.3	10	32.1	687	26
WHITELE	WH6898	AKB	197.5	23.3	9	32.8	685	28
PIONEER	PIONEER 30	AKB	198.7	21.8	10	33.8	684	24
HEINE	HE12V2P9B	V2P9B	198.6	21.7	20	32.8	685	23
HEFTY	HE22V2P9B	V2P9B	198.6	20.4	7	33.0	678	20
TOTAL PRO	TP 75-88 2P	V2P9B	198.9	22.8	2	32.1	684	25
TOTAL PRO	TP 75-88 2P	V2P9B	198.4	21.8	7	31.2	681	25
DARTLAND	DS 4209A	AKB	198.3	22.3	9	32.1	688	27
WESTVIEW	WH6898	None	198.2	22.3	7	31.2	685	29
PIONEER	PIONEER 30	AKB	198.2	21.7	20	33.8	685	24

REJECTED

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Averages =	183.0	22.0	14	32.4	616
LSD (0.10) =	27.7	0.8	13		
LSD (0.25) =	14.6	0.4	7		
C.V. =	14.4				

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.4 Drying = \$0.04 Prices: GMO = \$3.65; non-GMO = \$3.65

Report Date: 10/29/2019

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Early-Season Test Products (72 Total)

Company/Brand	Product/Brand	Technology	RM
ANDERSON	609R	RR2	98
ANDERSON	611VT2P	VT2P,B	100
ANDERSON	6811	None	100
ANDERSON	6898	None	98
AUGUSTA	A2345	3220,B	96
CHAMPION	48A18 VT2	VT2P,B	98
CHAMPION	49A20 VT2	VT2P,B	99
CHAMPION	50A19 VT2	VT2P,B	100
CHAMPION	51A19 VT2	VT2P,B	101
DAIRYLAND	DS-3519AM	AM,B	96
DAIRYLAND	DS-3715AM	AM,B	98
DAIRYLAND	DS-3750AM	AM	97
DAIRYLAND	DS-3810AM	AM	98
DAIRYLAND	DS-4018AM	AM,AQ,B	101
DEKALB	DKC47-54RIB GC	STX,B	97
DEKALB	DKC50-08RIB GC	STX,B	100
DYNA-GRO	D37VC64RIB GC	VT2P,B	97
DYNA-GRO	D39DC43RIB GC	VT2P,B	99
DYNA-GRO	D39VC40	VT2P	98
ENESTVEDT	E658DP RIB	VT2P,B	96
ENESTVEDT	E660SS RIB	STX,B	97
ENESTVEDT	E696SS RIB	STX,B	100
ENESTVEDT	E699DP RIB	VT2P,B	99
EPLEY	E1040	None	100
EPLEY	E9840	None	98
FEDERAL	4990VT2PRIB	VT2P,B	99
FEDERAL	5280CONV	None	101
GOLD COUNTRY	101-60RSS	STX,B	101
GOLD COUNTRY	97-75R2P	VT2P,B	97
GOLD COUNTRY	98-11R2P	VT2P,B	98
GOLD COUNTRY	99-30RSS	STX,B	99
HEFTY	H4732VT2P	VT2P	97
HEFTY	H4922VT2PRIB	VT2P,B	99
HEFTY	H4933VT2PDGRIB	VT2P,DG,B	99
HEFTY	H5003VT2PDGRIB	VT2P,DG,B	100
HEFTY	H5132VT2P	VT2P	101

Company/Brand	Brand/Product	Technology	RM
HEINE	6500VT2PRO	VT2P	99
HEINE	6550VT2PRO	VT2P	99
HEINE	7000STX	STX	100
HEINE	EXP 7010	VT2P	100
LATHAM	EX 5035 VT2P	VT2P	100
LATHAM	LH4830	None	98
LATHAM	LH4937VT2PRIB	VT2P,B	99
LATHAM	LH5077VT2PRIB	VT2P,B	100
LATHAM	LH5160	None	101
MILLER HYBRIDS	M00-49	None	100
MILLER HYBRIDS	M97-34	None	97
MILLER HYBRIDS	M97-40	None	97
NK BRAND	NK9610-3010	3010	96
NK BRAND	NK9930-3010	3010	99
NORTHSTAR	NS 94-162VT2PRIB	VT2P,B	94
NORTHSTAR	NS 97-547SSRIB	STX,B	97
NORTHSTAR	NS 98-513VT2PRIB	VT2P,B	98
PIONEER	P0157AMXT CK	AMXT,AQ,B	101
PIONEER	P9998AMXT GC	AMXT,AQ,B	99
RENK	RK579DGV2P	VT2P,DG,B	98
RENK	RK587VT2P	VT2P,B	97
RENK	RK593VT2P	VT2P	96
RENK	RK608DGV2P	VT2P,DG,B	100
TITAN PRO	70-98	None	98
TITAN PRO	84-01	None	101
TITAN PRO	85-96	None	96
TITAN PRO	91-00	None	100
TITAN PRO	92-99 2P	VT2P,B	99
VIKING	44-98	None	98
VIKING	46-96	None	96
VIKING	52-00	None	100
VIKING	99-00	None	100
WYFFELS	W1636RIB	VT2P,B	96
WYFFELS	W2196RIB	VT2P,B	99
WYFFELS	W2236	VT2P	99
WYFFELS	W2506RIB	VT2P,B	101

2019 Corn - Minnesota Southwest [MNSW]



Full-Season Test Products (66 Total)

Company/Brand	Product/Brand	Technology	RM
ANDERSON	5303	None	103
AUGUSTA	A2856	3220,B	105
AUGUSTA	A3052	3110	102
CHAMPION	52A18 VT2	VT2P,B	102
CHAMPION	53A20 VT2 PRO	VT2P,B	103
CHAMPION	55A20 3220 EZ	3220,B	105
CHAMPION	56A18VT2PRORIB	VT2P,B	106
DAIRYLAND	DS-4310AM	AM	103
DAIRYLAND	DS-4329AM	AM,B	105
DAIRYLAND	DS-4440AM	AM,B	104
DAIRYLAND	DS-4580AMXT	AMXT	105
DAIRYLAND	DS-7004RA	PC,B	104
DEKALB	DKC54-38RIB GC	STX,B	104
DEKALB	DKC55-53RIB GC	STX,B	105
ENESTVEDT	E539	None	103
FEDERAL	5570CONV	None	105
GOLD COUNTRY	102-07RSS	STX,B	102
GOLD COUNTRY	102-88R2P	VT2P,B	102
GOLD COUNTRY	103-23RSS	STX,B	103
GOLD COUNTRY	104-11RSS	STX,B	104
GOLD COUNTRY	106-96RSS	STX,B	106
HEFTY	H5212VT2PRIB	VT2P,B	102
HEFTY	H5504SSRIB	STX,B	105
HEFTY	H5522VT2PRIB	VT2P,B	105
HEFTY	H5622VT2PRIB	VT2P,B	106
HEINE	739VT2PRORIB	VT2P,B	102
HEINE	740VT2PRORIB	VT2P,B	103
HEINE	752VT2PRORIB	VT2P,B	105
HEINE	7600VT2PRO	VT2P	106
HEINE	EXP 7550	STX	106
LATHAM	LH5245VT2PRIB	VT2P,B	102
LATHAM	LH5377VT2PRIB	VT2P,B	100
LATHAM	LH5487VT2PRIB	VT2P,B	104
LATHAM	LH5517VT2PRIB	VT2P,B	105
LATHAM	LH5546-3220-EZR	3220,B	105
MILLER HYBRIDS	M05-72	None	105

Company/Brand	Brand/Product	Technology	RM
NK BRAND	NK0243-3120-EZR	3120,B	102
NK BRAND	NK0472-3110	3110	104
NK BRAND	NK0624-3220-EZR	3220,B	106
NORTHSTAR	NS 102-168DGV2PRIB	VT2P,DG,B	102
NORTHSTAR	NS 105-558VT2P	VT2P	105
NORTHSTAR	NS 106-186SSRIB	STX,B	106
PIONEER	P0157AMXT CK	AMXT,AQ,B	101
PIONEER	P0306AM GC	AM,AQ,B	103
PIONEER	P0589 GC	AQ	105
PIONEER	P0688AM GC	AM,B	106
RENK	RK621VT2P	VT2P	102
RENK	RK626SSTX	STX	102
RENK	RK710DGV2P	VT2P,DG,B	106
RENK	RK717SSTX	STX,B	105
RENK	RK737SSTX	STX,B	106
REV	REV 1247AM GC	AM	101
REV	REV 1587AM GC	AM	105
TITAN PRO	82-04 2P	VT2P,B	104
TITAN PRO	91-02	None	102
TITAN PRO	96-06 2P	VT2P,B	106
TITAN PRO	TP 40-03	None	103
TITAN PRO	TP 70-06	None	106
VIKING	42-05	None	105
VIKING	51-04	None	104
VIKING	55-02	None	102
VIKING	84-05	None	105
WYFFELS	W4196RIB	VT2P,B	105
WYFFELS	W4358RIB	STX,B	106
WYFFELS	W4638	STX	107
WYFFELS	W5086	VT2P	107

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.