

Test by: Southern MN FIRST New Richland, MN

2019 Corn Grain Top 30 Harvest Report

Minnesota Southwest [MNSW] EASTON, MN
Dru Martin, Faribault County, MN 56025

Early-Season Test	96 - 101 Day CRM B2019MNSW05a
Top 30 of 72*	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybean / Flexstar
SOIL DESCRIPTION:	Guckeen, Waldorf silty clay loam, moderately drained, non-irrigated
SOIL CONDITION:	Conventional W/O Fall Till, high P, medium K, 5.7 pH, 5.4% OM, 29.5 CEC
PEST MANAGEMENT:	Resicore
FERTILITY - Applied N:	180.0 Fall, 60 Sidedress, Hog Manure
Applied N-P-K (units):	240-80-78
SEEDING - RATE - ROW:	May 7 35.3 /A 30" spacing
HARVESTED - STAND:	Nov 4 32.8 /A

TEST COMMENTS:

Unfortunately, this site was accidentally sprayed with glyphosate, killing the conventional hybrids in both tests. Dru replanted these dead plots with an early hybrid, attempting to protect the validity of the plots. Then the big wind event of July 20 blew all day, causing mostly stalk lodging, and a bit of green snap. Dru's yields reflect the variation shown here. Note: only GMO hybrid entries were included in the statistical analysis of the test.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
RENK	RK593VT2P	VT2P	96	234.0	17.9	6	34.8	827	1
DAIRYLAND	DS-3750AM	AM	97	229.6	18.3	9	32.6	808	2
FEDERAL	4990VT2PRIB	VT2P,B	99	229.3	19.1	6	34.4	799	4
HEINE	EXP 7010	VT2P	100	229.2	18.8	7	33.5	802	3
LATHAM	EX 5035 VT2P	VT2P	100	226.1	18.6	17	33.9	792	7
NK BRAND	NK9610-3010	3010	96	225.0	18.2	10	31.7	793	5
CHAMPION	48A18 VT2	VT2P,B	98	223.3	17.5	9	34.8	793	6
WYFFELS	W2506RIB	VT2P,B	101	222.2	18.7	2	33.5	778	8
RENK	RK579DGV2P	VT2P,DG,B	98	220.2	18.5	6	33.9	773	9
DEKALB	DKC50-08RIB GC	STX,B	100	219.0	19.4	8	33.5	761	13
WYFFELS	W2196RIB	VT2P,B	99	218.9	18.7	6	33.5	767	10
CHAMPION	49A20 VT2	VT2P,B	99	218.3	18.7	7	32.6	764	12
GOLD COUNTRY	97-75R2P	VT2P,B	97	215.5	17.4	5	34.8	766	11
DAIRYLAND	DS-3715AM	AM,B	98	212.9	18.7	11	33.0	746	14
DAIRYLAND	DS-3810AM	AM	98	211.4	19.2	6	34.4	736	17
RENK	RK587VT2P	VT2P,B	97	210.7	17.8	27	22.6	746	15
DYNA-GRO	D39VC40	VT2P	98	209.2	17.8	11	31.2	740	16
HEFTY	H4922VT2PRIB	VT2P,B	99	206.8	18.1	7	29.9	729	19
AUGUSTA	A2345	3220,B	96	206.6	18.8	26	29.9	723	23
NK BRAND	NK9930-3010	3010	99	206.5	18.7	10	34.8	723	24
CHAMPION	50A19 VT2	VT2P,B	100	206.3	18.2	7	32.6	726	20
TITAN PRO	92-99 2P	VT2P,B	99	206.2	18.4	9	33.9	724	21
ENESTVEDT	E699DP RIB	VT2P,B	99	205.9	17.6	7	33.9	730	18
HEFTY	H5132VT2P	VT2P	101	205.7	18.2	10	32.6	724	22
ENESTVEDT	E658DP RIB	VT2P,B	96	202.6	17.6	8	32.1	718	25
HEINE	7000STX	STX	100	201.3	18.4	4	33.0	708	27
DAIRYLAND	DS-3519AM	AM,B	96	198.1	18.0	7	30.8	699	28
HEFTY	H4933VT2PDGRIB	VT2P,DG,B	99	198.0	18.4	6	34.4	696	29
HEINE	6500VT2PRO	VT2P	99	197.2	18.3	6	33.9	694	31
NORTHSTAR	NS 94-162VT2PRIB	VT2P,B	94	196.8	17.9	4	33.5	695	30
PIONEER	P0157AMXT CK	AMXT,AQ,B	101	205.3	19.7	11	31.2	711	26

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Averages = **200.6** **18.4** **9** **32.8** **528**
 LSD (0.10) = 23.8 0.6 ns
 LSD (0.25) = 12.5 0.3 ns
 C.V. = 11.3

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

Report Date: 11/05/2019

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. *Conventional hybrids were not harvested or included in statistical analysis.

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2019 Corn Grain Top 30 Harvest Report

Minnesota Southwest [MNSW] EASTON, MN
Dru Martin, Faribault County, MN 56025

Full-Season Test	102 - 106 Day CRM B2019MNSW05b
Top 30 of 66*	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybean / Flexstar
SOIL DESCRIPTION:	Guckeen, Waldorf silty clay loam, moderately drained, non-irrigated
SOIL CONDITION:	Conventional W/O Fall Till, high P, medium K, 5.7 pH, 5.4% OM, 29.5 CEC
PEST MANAGEMENT:	Resicore
FERTILITY - Applied N:	180.0 Fall, 60 Sidedress, Hog Manure
Applied N-P-K (units):	240-80-78
SEEDED - RATE - ROW:	May 7 35.3 /A 30" spacing
HARVESTED - STAND:	Nov 4 32.8 /A

TEST COMMENTS:

Unfortunately, this site was accidentally sprayed with glyphosate, killing the conventional hybrids in both tests. Dru replanted these dead plots with an early hybrid, attempting to protect the validity of the plots. Then the big wind event of July 20 blew all day, causing mostly stalk lodging, and a bit of green snap. Dru's yields reflect the variation shown here. Note: only GMO hybrid entries were included in the statistical analysis of the test.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
LATHAM	LH5546-3220-EZR	3220,B	105	251.6	20.1	7	33.9	867	1
HEINE	EXP 7550	STX	106	247.0	20.8	11	34.4	845	3
LATHAM	LH5245VT2PRIB	VT2P,B	102	244.1	18.9	8	33.5	853	2
DAIRYLAND	DS-4440AM	AM,B	104	243.3	19.6	7	34.4	843	4
WYFFELS	W4196RIB	VT2P,B	105	243.1	19.7	5	34.8	842	5
NK BRAND	NK0624-3220-EZR	3220,B	106	243.1	20.7	6	33.0	832	6
NK BRAND	NK0243-3120-EZR	3120,B	102	239.3	20.4	16	29.8	821	7
GOLD COUNTRY	106-96RSS	STX,B	106	235.4	20.5	5	33.9	807	10
AUGUSTA	A3052	3110	102	234.7	20.0	7	33.5	809	9
WYFFELS	W4638	STX	107	234.3	20.6	7	33.5	802	13
LATHAM	LH5487VT2PRIB	VT2P,B	104	234.2	19.4	4	33.5	813	8
AUGUSTA	A2856	3220,B	105	234.0	20.9	7	32.6	799	17
CHAMPION	55A20 3220 EZ	3220,B	105	233.0	20.0	9	33.5	804	11
DAIRYLAND	DS-4329AM	AM,B	105	232.6	20.1	7	34.4	802	14
HEINE	7600VT2PRO	VT2P	106	231.7	19.5	7	32.1	804	12
HEFTY	H5622VT2PRIB	VT2P,B	106	231.4	19.7	13	33.5	801	16
NK BRAND	NK0472-3110	3110	104	230.2	19.2	4	34.6	802	15
HEINE	740VT2PRORIB	VT2P,B	103	226.7	18.7	7	35.3	794	18
RENK	RK737SSTX	STX,B	106	225.8	19.6	4	33.5	783	20
WYFFELS	W4358RIB	STX,B	106	225.4	19.3	5	33.9	784	19
TITAN PRO	96-06 2P	VT2P,B	106	223.4	19.5	6	31.2	775	21
DAIRYLAND	DS-4310AM	AM	103	222.5	20.2	17	33.0	766	23
CHAMPION	52A18 VT2	VT2P,B	102	221.7	19.1	6	33.0	773	22
DEKALB	DKC55-53RIB GC	STX,B	105	219.9	19.9	6	31.2	760	25
TITAN PRO	82-04 2P	VT2P,B	104	219.8	19.4	6	32.6	764	24
GOLD COUNTRY	103-23RSS	STX,B	103	219.3	20.3	6	33.9	754	27
GOLD COUNTRY	104-11RSS	STX,B	104	218.4	19.4	6	33.0	759	26
NORTHSTAR	NS 105-558VT2P	VT2P	105	217.6	20.1	6	34.4	750	29
LATHAM	LH5517VT2PRIB	VT2P,B	105	216.9	19.5	2	33.5	753	28
HEFTY	H5212VT2PRIB	VT2P,B	102	213.2	18.6	5	34.4	748	30
PIONEER	P0157AMXT CK	AMXT,AQ,B	101	196.0	19.5	7	32.6	680	42

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Averages = **211.1** **19.7** **9** **32.8** **610**
LSD (0.10) = 22.4 0.6 9
LSD (0.25) = 11.7 0.3 5
C.V. = 10.1

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

Report Date: 11/05/2019

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2019 Corn - Minnesota Southwest [MNSW]



Early-Season Test Products (72 Total)

Company/Brand	Product/Brand	Technology	RM
ANDERSON	609R	RR2	98
ANDERSON	611VT2P	VT2P,B	100
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
FEDERAL	4990VT2PRIB	VT2P,B	99
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
HEINE	6500VT2PRO	VT2P	99
HEINE	6550VT2PRO	VT2P	99
HEINE	7000STX	STX	100
HEINE	EXP 7010	VT2P	100
LATHAM	EX 5035 VT2P	VT2P	100

Company/Brand	Brand/Product	Technology	RM
LATHAM	LH4937VT2PRIB	VT2P,B	99
LATHAM	LH5077VT2PRIB	VT2P,B	100
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	92-99 2P	VT2P,B	99
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
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
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
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

Company/Brand	Brand/Product	Technology	RM
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	96-06 2P	VT2P,B	106
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.