

Test by: Southern MN FIRST New Richland, MN

2019 Corn Grain Top 30 Harvest Report

Minnesota Southeast [MNSE] CANNON FALLS, MN
Hernke Inc. Marc Hernke, Goodhue County, MN 55009

Early-Season Test	96 - 101 Day CRM B2019MNSE11a
Top 30 of 60	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybean / Enlite, glyphosate
SOIL DESCRIPTION:	Port Byron silt loam, mod. well drained, non-irrigated
SOIL CONDITION:	Conventional W/O Fall Till, very high P, very high K, 7.1 pH, 3.1% OM, 15.2 CEC
PEST MANAGEMENT:	Force, Laudis, Atrazine
FERTILITY - Applied N:	160 Spring, 15# Sulfur
Applied N-P-K (units):	160-0-120
SEEDED - RATE - ROW:	May 14 35.3 /A 30" spacing
HARVESTED - STAND:	Nov 14 33.6 /A

TEST COMMENTS:

The cool, wet spring delayed planting here, as it did almost everywhere. However, moisture was close to normal, and Marc reports the corn developed very well all year. These plants were very tall, and stood like a picket fence (with only a few showing lodging or goosenecking). Wind events were milder here, with minimal damage. Liquid propane gas shortages are the biggest challenge to finishing harvest in the area, and there is a lot of corn left to pick.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
TITAN PRO	92-99 2P	VT2P,B	99	270.7	21.1	0	33.0	922	1
LATHAM	EX 5035 VT2P	VT2P	100	267.8	21.7	0	33.9	906	2
HEFTY	H5132VT2P	VT2P	101	262.9	21.1	0	33.5	896	4
VIKING	52-00	None	100	261.5	20.2	0	32.6	900	3
FEDERAL	5280CONV	None	101	261.1	21.9	0	33.9	881	5
NUTECH	E58A2Q	QR,B	98	258.9	21.2	0	32.6	880	6
VIKING	44-98	None	98	258.3	21.3	0	34.4	878	7
FEDERAL	5280VT2PRIB	VT2P,B	102	258.0	21.4	0	33.0	875	9
HEFTY	H4922VT2PRIB	VT2P,B	99	257.3	21.1	0	34.8	877	8
TITAN PRO	84-01	None	101	257.2	21.6	0	34.4	871	11
NORTHSTAR	NS 98-513VT2PRIB	VT2P,B	98	256.0	20.9	0	34.4	874	10
LATHAM	LH4830	None	98	255.3	21.6	0	34.4	864	18
EPLEY	E9840	None	98	255.3	21.5	0	33.0	865	16
AUGUSTA	A2345	3220,B	96	254.4	20.7	2	33.0	871	12
GOLDEN HARVEST	G97N86-3220-EZR	3220,B	97	254.4	20.9	0	33.9	869	13
ANDERSON	609R	RR2	98	254.0	21.1	0	33.5	865	17
RENK	RK579DGV2P	VT2P,DG,B	98	253.8	20.9	0	33.9	866	15
LATHAM	LH4937VT2PRIB	VT2P,B	99	252.4	20.2	0	33.9	869	14
VIKING	46-96	None	96	252.0	22.0	0	33.9	850	24
GOLD COUNTRY	97-75R2P	VT2P,B	97	251.3	20.9	0	33.9	858	19
FEDERAL	4990VT2PRIB	VT2P,B	99	250.6	21.6	0	34.4	849	26
ANDERSON	6811	None	100	250.5	21.4	0	33.0	850	25
EPLEY	E1012SS	STX	100	250.3	21.3	0	33.0	851	21
NUTECH	5F-601AM	AM,B	100	250.1	21.2	1	33.5	851	22
RENK	RK608DGV2P	VT2P,DG,B	100	249.6	21.6	0	33.9	845	29
FEDERAL	4680VT2PRIB	VT2P,B	96	248.9	21.0	0	32.6	848	27
NK BRAND	NK9930-3010	3010	99	248.2	20.6	0	33.0	851	23
TITAN PRO	85-96	None	96	248.0	20.8	2	33.5	848	28
HEFTY	H4732VT2P	VT2P	97	246.6	21.1	0	33.5	840	31
FEDERAL	4880VT2PRIB	VT2P,B	98	244.1	20.2	0	33.0	841	30
PIONEER	P0157AMXT CK	AMXT,AQ,B	101	255.0	22.5	0	31.7	855	20
				Averages =	246.6	21.2	0	33.6	839
Mark Querna				LSD (0.10) =	14.0	0.6	1		
Mark Querna				LSD (0.25) =	7.3	0.3	1		
mark.querna@firstseedtests.com, (507) 380-9920				C.V. =	5.4				

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

Report Date: 11/15/2019

† 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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Minnesota Southeast [MNSE] CANNON FALLS, MN
Hernke Inc. Marc Hernke, Goodhue County, MN 55009

Full-Season Test	102 - 106 Day CRM B2019MNSE11b
Top 30 of 66	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybean / Enlite, glyphosate
SOIL DESCRIPTION:	Port Byron silt loam, mod. well drained, non-irrigated
SOIL CONDITION:	Conventional W/O Fall Till, very high P, very high K, 7.1 pH, 3.1% OM, 15.2 CEC
PEST MANAGEMENT:	Force, Laudis, Atrazine
FERTILITY - Applied N:	160 Spring, 15# Sulfur
Applied N-P-K (units):	160-0-120
SEEDED - RATE - ROW:	May 14 35.3 /A 30" spacing
HARVESTED - STAND:	Nov 14 33.9 /A

TEST COMMENTS:

The cool, wet spring delayed planting here, as it did almost everywhere. However, moisture was close to normal, and Marc reports the corn developed very well all year. These plants were very tall, and stood like a picket fence (with only a few showing lodging or goosenecking). Wind events were milder here, with minimal damage. Liquid propane gas shortages are the biggest challenge to finishing harvest in the area, and there is a lot of corn left to pick.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
GOLDEN HARVEST	G02K39-3120-EZR	3120,B	102	281.1	22.1	2	33.9	947	1
LATHAM	LH5245VT2PRIB	VT2P,B	102	276.8	21.2	0	33.5	942	2
DAIRYLAND	DS-4310AM	AM	103	276.6	22.6	0	34.8	926	3
GOLD COUNTRY	106-96RSS	STX,B	106	276.4	24.2	0	33.9	907	7
AUGUSTA	A2856	3220,B	105	274.9	23.6	1	33.9	909	6
NUTECH	65H2Q	QR,B	105	272.4	22.4	0	33.5	913	4
WYFFELS	W4196RIB	VT2P,B	105	271.7	22.5	0	34.4	910	5
VIKING	55-02	None	102	271.4	22.7	0	33.9	907	8
VIKING	84-05	None	105	270.0	22.8	0	33.5	901	10
DEKALB	DKC55-53RIB GC	STX,B	105	268.9	22.4	0	33.9	902	9
RENK	RK710DGVT2P	VT2P,DG,B	106	268.0	22.3	0	33.9	900	11
HEFTY	H5522VT2PRIB	VT2P,B	105	267.3	22.0	0	33.0	900	12
LATHAM	LH5487VT2PRIB	VT2P,B	104	266.4	22.3	0	33.9	895	13
PIONEER	P0688AM GC	AM,B	106	265.9	22.8	0	33.9	888	15
TITAN PRO	82-04 2P	VT2P,B	104	263.8	21.8	0	33.9	891	14
EPLEY	E1330	None	103	263.0	22.2	0	33.5	884	17
DAIRYLAND	DS-7004RA	PC,B	104	262.8	23.6	0	33.5	868	25
NK BRAND	NK0243-3120-EZR	3120,B	102	262.7	21.9	1	34.4	887	16
PIONEER	P0589 GC	AQ	105	262.1	22.0	0	33.9	883	18
GOLD COUNTRY	104-11RSS	STX,B	104	261.9	22.4	0	34.8	879	20
VIKING	51-04	None	104	261.8	22.8	0	33.9	874	22
AUGUSTA	A3052	3110	102	261.1	22.0	0	33.9	880	19
TITAN PRO	96-06 2P	VT2P,B	106	260.6	21.9	0	33.9	879	21
DAIRYLAND	DS-4580AMXT	AMXT	105	259.0	22.6	0	33.5	867	26
ENESTVEDT	E539	None	103	258.0	21.7	0	34.8	873	23
EPLEY	E1503VT2P	VT2P	105	257.8	22.0	0	33.9	869	24
REV	REV 1587AM GC	AM	105	256.7	22.4	0	33.9	861	30
PIONEER	P0306AM GC	AM,AQ,B	103	255.1	21.4	0	34.4	866	28
NK BRAND	NK0472-3110	3110	104	254.8	21.5	0	33.9	864	29
HEFTY	H5212VT2PRIB	VT2P,B	102	254.6	21.1	0	34.4	867	27
PIONEER	P0157AMXT CK	AMXT,AQ,B	101	243.6	22.6	0	33.9	815	57
				Averages =	255.3	22.4	0	33.9	856
Mark Querna				LSD (0.10) =	13.2	0.6	1		
Mark Querna				LSD (0.25) =	6.9	0.3	1		
mark.querna@firstseedtests.com, (507) 380-9920				C.V. =	4.9				

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

Report Date: 11/15/2019

† 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 - Minnesota Southeast [MNSE]



Early-Season Test Products (60 Total)

Company/Brand	Product/Brand	Technology	RM
ANDERSON	609R	RR2	98
ANDERSON	611SRC	STX,B	100
ANDERSON	6811	None	100
ANDERSON	6898	None	98
AUGUSTA	A2345	3220,B	96
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
ENESTVEDT	E696SS RIB	STX,B	100
ENESTVEDT	E699DP RIB	VT2P,B	99
EPLEY	E1012SS	STX	100
EPLEY	E9840	None	98
FEDERAL	4680VT2PRIB	VT2P,B	96
FEDERAL	4880VT2PRIB	VT2P,B	98
FEDERAL	4990VT2PRIB	VT2P,B	99
FEDERAL	5280CONV	None	101
FEDERAL	5280VT2PRIB	VT2P,B	102
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
GOLDEN HARVEST	G00H12-3010	3010	100
GOLDEN HARVEST	G97N86-3220-EZR	3220,B	97
HEFTY	H4612VT2PRIB	VT2P,B	96
HEFTY	H4732VT2P	VT2P	97
HEFTY	H4812VT2PRIB	VT2P,B	98
HEFTY	H4922VT2PRIB	VT2P,B	99
HEFTY	H5132VT2P	VT2P	101
LATHAM	EX 5035 VT2P	VT2P	100
LATHAM	LH4830	None	98
LATHAM	LH4937VT2PRIB	VT2P,B	99
LATHAM	LH5077VT2PRIB	VT2P,B	100

Company/Brand	Brand/Product	Technology	RM
LATHAM	LH5160	None	101
NK BRAND	NK9610-3010	3010	96
NK BRAND	NK9930-3010	3010	99
NORTHSTAR	NS 97-547SSRIB	STX,B	97
NORTHSTAR	NS 98-513VT2PRIB	VT2P,B	98
NUTECH	56A7Q	QR,B	96
NUTECH	5F-196AM	AM,B	96
NUTECH	5F-601AM	AM,B	100
NUTECH	E58A2Q	QR,B	98
PIONEER	P0157AMXT CK	AMXT,AQ,B	101
PIONEER	P9998AMXT GC	AMXT,AQ,B	99
RENK	RK579DGVT2P	VT2P,DG,B	98
RENK	RK587VT2P	VT2P,B	97
RENK	RK593VT2P	VT2P	96
RENK	RK608DGVT2P	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

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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
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
EPLEY	E1330	None	103
EPLEY	E1503VT2P	VT2P	105
FEDERAL	5300VT2P	VT2P	103
FEDERAL	5570VT2PRIB	VT2P,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
GOLDEN HARVEST	G02K39-3120-EZR	3120,B	102
GOLDEN HARVEST	G03R40-3110	3110	103
HEFTY	H5212VT2PRIB	VT2P,B	102
HEFTY	H5432VT2P	VT2P	104
HEFTY	H5504SSRIB	STX,B	105
HEFTY	H5522VT2PRIB	VT2P,B	105
HEFTY	H5622VT2PRIB	VT2P,B	106
LATHAM	LH5245VT2PRIB	VT2P,B	102
LATHAM	LH5377VT2PRIB	VT2P,B	100
LATHAM	LH5487VT2PRIB	VT2P,B	104
LATHAM	LH5517VT2PRIB	VT2P,B	105
LATHAM	LH5635VT2PRIB	VT2P,B	106
NK BRAND	NK0243-3120-EZR	3120,B	102
NK BRAND	NK0472-3110	3110	104
NORTHSTAR	NS 102-168DGVT2PRIB	VT2P,DG,B	102
NORTHSTAR	NS 105-558VT2P	VT2P	105

Company/Brand	Brand/Product	Technology	RM
NORTHSTAR	NS 106-186SSRIB	STX,B	106
NUTECH	5L-504AMXT	AMXT,B	104
NUTECH	64D1AM	AM,B	104
NUTECH	65H2Q	QR,B	105
NUTECH	66B6Q	QR,B	106
NUTECH	E628AQ	QR,B	102
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	RK642VT2P	VT2P,B	103
RENK	RK710DGVT2P	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	84-03 2P	VT2P,B	103
TITAN PRO	91-02	None	102
TITAN PRO	96-06 2P	VT2P,B	106
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® TRIsect (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.