

Test by: Southern MN FIRST New Richland, MN

2019 Corn Grain Top 30 Harvest Report

Minnesota Southeast [MNSE] KASSON, MN
Brian Herbst, Dodge County, MN 55944

Early-Season Test	96 - 101 Day GRM B2019MNSE08a
Top 30 of 60	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybean / Optill, Roundup, Warrant
SOIL DESCRIPTION:	Readlyn silt loam, mod. well drained, non-irrigated
SOIL CONDITION:	Conventional W/O Fall Till, very high P, high K, 6.8 pH, 5.6% OM, 27.9 CEC
PEST MANAGEMENT:	Armezon, Atrazine
FERTILITY - Applied N:	33.0 Fall, 170 Spring, 27# sulfur, 6# zinc sulfate
Applied N-P-K (units):	203-156-168
SEEDING - RATE - ROW:	May 6 35.3 /A 30" spacing
HARVESTED - STAND:	Nov 2 33.1 /A

TEST COMMENTS:

Rain makes grain. That is the lesson learned over the past few years in southern MN. Brian told me he received over 57 inches of rain this year -- that is twice the normal rainfall. His north-south planted rows showed the effects of stalk lodging, but very little green snap and no goosenecking. Moderate temperatures and lower solar radiation than normal did not seem to deter the yields here. Early-season data rejected due to high same product rep to rep yield variation.

Company/Brand	Product/Brand	Seeds / Acre	Yield Bu/A	Moisture %	Lodging %	Stand in 1000's	Gross Income \$/Acre	Rank	
LATHAM	EX 5025 VTGP	VTGP	100	248.8	19.3	1	33.9	888	1
DARTLAND	DS 3715AM	AKS	98	248.8	20.0	3	32.1	888	2
FEDERAL	SUNCONV	NEW	101	242.1	19.9	3	32.8	838	4
TOTAL PRO	94-01	NEW	101	242.0	19.8	1	33.0	838	3
VRING	40-86	NEW	96	241.2	19.7	5	32.0	835	5
TOTAL PRO	91-02	NEW	100	239.7	19.8	13	32.1	831	6
NE BRAND	NE8019-3010	3010	95	237.7	19.8	3	31.0	829	7
FEDERAL	SUNVT2P8B	VT2P8	100	237.7	20.1	1	32.0	823	8
NE BRAND	NE8019-3010	3010	99	237.4	20.0	3	31.5	815	10
FEDERAL	400VT2P8B	VT2P8	100	236.9	19.4	1	32.8	813	11
DARTLAND	DS 4015AM	AKS	97	236.9	19.4	1	32.1	808	12
LATHAM	LIN80VT2P8B	VT2P8	96	236.7	19.3	2	34.8	801	9
RENA	RE8000VT2P8	VT2P8	100	234.4	20.3	0	32.8	800	13
NUTECH	90-01	VTGP	98	231.1	20.1	0	33.0	797	14
TOTAL PRO	92-88-2P	VT2P8	99	230.2	19.4	3	33.3	797	15
ANDERSON	8001	VTGP	99	229.2	20.3	2	34.4	795	20
HEFTY	H80VT2P8B	VT2P8	98	227.9	19.3	4	33.0	792	16
NUTECH	97-801AM	AKS	100	227.4	20.7	3	33.0	779	24
ANDERSON	8001	VTGP	98	227.3	19.8	4	33.9	769	17
ANDERSON	8011	VTGP	100	227.0	19.9	0	33.0	764	21
RENA	RE8000VT2P8B	VT2P8	98	226.9	19.5	2	34.4	769	18
GOLDEN HARVEST	90-01	VTGP	97	226.9	20.4	2	33.5	779	22
HEFTY	VTGP	VTGP	101	226.4	19.5	0	33.9	769	19
AUGUSTA	AKS	AKS	96	224.8	20.0	5	33.9	775	26
LATHAM	LIN80VT2P8B	VT2P8	100	223.3	20.2	14	31.7	769	28
NUTECH	97-188AM	AKS	98	223.2	19.8	0	31.2	772	27
NORTHESTAR	NE 88-010VT2P8B	VT2P8	98	222.8	19.8	3	33.3	779	23
TOTAL PRO	93-86	NEW	96	222.3	20.3	2	33.0	765	30
RENA	RE8000VTGP	VTGP	96	222.0	19.8	2	33.9	776	25
VRING	92-02	NEW	100	222.0	19.8	7	33.9	769	29
TOTAL	PROVIDENT 01	VTGP	101	221.7	21.1	4	33.1	764	31

REJECTED

Mark Querna

Mark Querna

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Averages = **221.4** **19.8** **3** **33.1** **765**
 LSD (0.10) = ns 0.5 3
 LSD (0.25) = ns 0.3 2
 C.V. = 8.9

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

Report Date: 11/04/2019

Revised: 11/05/2019 (Test comments revised.)

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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Minnesota Southeast [MNSE] KASSON, MN

Brian Herbst, Dodge County, MN 55944

Full-Season Test	102 - 106 Day CRM B2019MNSE08b
Top 30 of 66	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybean / Optill, Roundup, Warrant
SOIL DESCRIPTION:	Readlyn silt loam, mod. well drained, non-irrigated
SOIL CONDITION:	Conventional W/O Fall Till, very high P, high K, 6.8 pH, 5.6% OM, 27.9 CEC
PEST MANAGEMENT:	Armezon, Atrazine
FERTILITY - Applied N:	33.0 Fall, 170 Spring, 27# sulfur, 6# zinc sulfate
Applied N-P-K (units):	203-156-168
SEEDED - RATE - ROW:	May 6 35.3 /A 30" spacing
HARVESTED - STAND:	Nov 2 32.9 /A

TEST COMMENTS:

Rain makes grain. That is the lesson learned over the past few years in southern MN. Brian told me he received over 57 inches of rain this year -- that is twice the normal rainfall. His north-south planted rows showed the effects of stalk lodging, but very little green snap and no goosenecking. Moderate temperatures and lower solar radiation than normal did not seem to deter the yields here. Early-season data rejected due to high same product rep to rep yield variation.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
VIKING	51-04	None	104	269.6	21.8	5	32.1	911	1
NK BRAND	NK0472-3110	3110	104	251.9	21.0	2	34.8	859	2
DAIRYLAND	DS-7004RA	PC,B	104	243.5	22.4	4	31.2	817	3
WYFFELS	W4196RIB	VT2P,B	105	239.2	21.6	0	33.9	810	4
EPLEY	E1330	None	103	237.1	21.0	2	33.9	808	5
WYFFELS	W5086	VT2P	107	236.8	20.9	0	33.0	808	6
VIKING	55-02	None	102	236.1	21.0	2	33.9	805	7
AUGUSTA	A2856	3220,B	105	235.8	21.8	2	33.9	797	9
GOLD COUNTRY	103-23RSS	STX,B	103	234.8	21.3	0	33.0	798	8
RENK	RK642VT2P	VT2P,B	103	233.8	21.0	1	31.7	797	10
LATHAM	LH5517VT2PRIB	VT2P,B	105	233.6	21.5	0	33.5	792	12
RENK	RK710DGV2P	VT2P,DG,B	106	232.8	21.7	3	33.0	787	13
HEFTY	H5212VT2PRIB	VT2P,B	102	231.9	20.3	2	33.0	797	11
TITAN PRO	82-04 2P	VT2P,B	104	231.3	21.2	0	33.0	787	14
NUTECH	66B6Q	QR,B	106	229.1	21.5	0	33.5	777	17
RENK	RK621VT2P	VT2P	102	229.1	20.9	2	32.1	782	15
TITAN PRO	84-03 2P	VT2P,B	103	228.4	20.7	1	33.5	781	16
GOLD COUNTRY	106-96RSS	STX,B	106	228.3	22.1	1	33.9	768	21
NUTECH	65H2Q	QR,B	105	227.5	21.3	1	31.7	773	18
WYFFELS	W4638	STX	107	227.3	22.3	1	33.0	763	24
DAIRYLAND	DS-4310AM	AM	103	227.2	21.5	0	32.1	770	20
EPLEY	E1503VT2P	VT2P	105	226.2	21.0	0	33.0	772	19
VIKING	84-05	None	105	225.3	21.1	1	33.0	767	23
HEFTY	H5522VT2PRIB	VT2P,B	105	224.6	20.7	0	32.1	768	22
NUTECH	64D1AM	AM,B	104	223.2	22.4	0	33.5	749	28
LATHAM	LH5635VT2PRIB	VT2P,B	106	222.1	21.7	0	32.6	751	27
LATHAM	LH5245VT2PRIB	VT2P,B	102	221.2	20.8	2	33.9	756	25
DAIRYLAND	DS-4329AM	AM,B	105	221.0	21.8	0	34.8	746	29
FEDERAL	5300VT2P	VT2P	103	221.0	21.2	1	30.8	752	26
LATHAM	LH5487VT2PRIB	VT2P,B	104	219.1	21.3	2	33.0	745	30
PIONEER	P0157AMXT CK	AMXT,AQ,B	101	192.6	21.6	0	29.4	652	64
				Averages =	219.2	21.5	2	32.9	743
				LSD (0.10) =	19.6	0.7	3		
				LSD (0.25) =	10.3	0.4	2		
				C.V. =	8.5				

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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

2019 Corn - Minnesota Southeast [MNSE]



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 102-168DGV2PRIB	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	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	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.