

2018 Corn Grain Top 30 Harvest Report

Minnesota East Central [MNEC] TAYLORS FALLS
Sandberg Farms, Sandberg Farms, Chisago County, MN 55084



Test by: NewVenture, LLC, Ellendale, MN

PREV. CROP/HERB: Soybean
SOIL DESCRIPTION: Beltrami loam, mod. well drained, non-irrigated
SOIL CONDITION: Conventional w/ fall till, very high P, very high K, 6.5 pH, 2.8% OM, 12.8 CEC
PEST MANAGEMENT: Force, Buccaneer Plus, Impact
FERTILITY - Applied N: 61 Spring, 79 Sidedress
Applied N-P-K (units): 140-0-45
SEEDING - RATE - ROW: May 18 35,100 /A 30" spacing
HARVESTED - STAND: Nov 13 33,800 /A

Early-Season Test

86 - 91 Day CRM
B2018MNEC04a

Top 30 of 36

For Gross Income (Sorted by Yield)

Average of (3) Replications

Company/Brand	Product/Brand†	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
NuTech/G2 Gen	E5FN-A386	OI	86	222.4	18.0	7	32.9	651	1
Latham	LH3937VT2ProRIB	VT2P,B	89	218.5	18.3	0	34.4	637	2
NK Brand	NK8920-3120-EZR	3120,B	89	218.1	18.6	7	32.9	635	3
Latham	LH4147VT2ProRIB	VT2P,B	91	217.6	18.3	1	34.4	635	4
Renk	RK287VT2P	VT2P,B	87	215.0	17.5	0	34.4	632	6
Hefty	H3622VT2P	VT2P	86	214.7	16.9	0	34.4	634	5
Hefty	H4102VT2PRIB	VT2P,B	91	213.8	18.6	1	33.4	622	7
Pioneer	P9188AM GC	AM,B	91	213.0	18.1	0	34.4	622	8
Enestvedt	E878VT2PRIB	VT2P,B	87	209.5	17.4	0	34.8	616	9
Mustang	2291VT2PRIB	VT2P,B	91	209.5	18.2	0	33.4	612	10
Golden Harvest	G88F37-3010A	3010,A	88	208.0	17.4	0	33.9	612	11
NuTech	5N-886	3011,A	86	207.8	18.5	0	33.4	605	13
NuTech	5BN-2889	3010	89	207.6	17.7	0	33.9	609	12
Heine	600VT2PRO GC	VT2P	91	206.4	17.9	2	34.4	604	14
NK Brand	NK8618-3011A	3011,A	86	205.5	18.0	0	34.8	601	16
Golden Harvest	G89A09-3120-EZR	3120,B	89	204.8	18.1	1	33.4	599	17
Titan Pro	83-87 2P	VT2P,B	87	204.3	17.1	1	33.4	602	15
Thunder	6791VT2P	VT2P,B	91	202.9	18.2	0	33.9	592	19
Renk	RK408VT2P	VT2P,B	90	202.4	18.0	0	32.9	592	20
Proseed	1790VT2PRIB	VT2P,B	90	202.0	17.8	1	33.9	592	21
Dahlman	R45-28VT2PRIB	VT2P,B	90	198.0	17.7	0	33.4	581	22
Hefty	H3922VT2P	VT2P	89	197.9	17.8	0	33.9	580	23
Latham	LH3755VT2ProRIB	VT2P,B	87	197.4	17.4	0	34.4	580	24
Mustang	3287VT2PRIB	VT2P,B	87	194.7	17.5	3	34.4	572	25
Proseed	1787VT2PRIB	VT2P,B	87	193.9	17.4	0	33.9	570	26
Pioneer	P9188AMX GC	AMX,B	91	192.8	18.2	3	33.9	563	27
Hefty	H3712VT2PRIB	VT2P,B	87	188.5	16.9	0	33.4	557	28
Dairyland	DS-9686	3000GT	86	188.3	18.3	5	33.4	549	30
Mustang	3286VT2PRIB	VT2P,B	86	187.0	17.1	0	34.4	551	29
Dekalb	DKC35-88RIB GC	VT2P,B	85	186.3	17.2	6	32.4	549	31
Pioneer	P9492AM CK	AM,B	94	204.0	18.5	12	34.8	594	18
Averages =				201.4	17.8	2	33.8	590	
LSD (0.10) =				13.2	0.4	ns			
LSD (0.25) =				6.9	0.2	ns			
C.V. =				6.2	Prev. years average yield, 212.4 bu/a, 1 yr				

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$3.00; non-GMO = \$3.00

Test Comments: *This site was a very level and uniform site. Corn plants were standing very well in spite of the late harvest date. There were a few isolated spots of stalk lodged plants. Corn grain shelled off the cob very well and was easy to combine. The ears were large with kernels filled out to the tips. Dale, our host grower, said that overall, the growing season was good.*

† 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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FERTILITY - Applied N: 61 Spring, 79 Sidedress
Applied N-P-K (units): 140-0-45
SEEDING - RATE - ROW: May 18 35,100 /A 30" spacing
HARVESTED - STAND: Nov 13 34,100 /A

Full-Season Test
92 - 95 Day CRM
B2018MNEC04b

Top 30 of 36

For Gross Income (Sorted by Yield)
Average of (3) Replications

Company/Brand	Product/Brand†	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Titan Pro	82-95 2P	VT2P,B	95	242.2	20.0	0	34.8	696	1
Enestvedt	E656SSRIB	STX,B	95	227.4	18.8	0	33.9	661	2
Heine	6200VT2PRORIB GC	VT2P,B	95	225.8	19.5	0	33.9	652	3
Hefty	H4324SS	STX	93	220.0	18.1	0	34.4	643	4
Renk	8-536VT2P	VT2P	94	215.7	19.0	0	33.4	626	5
Hefty	H4322VT2P	VT2P	93	214.4	18.4	1	33.9	625	6
Hefty	H4522VT2P	VT2P	95	213.0	19.7	0	33.9	614	9
Latham	LH4517VT2Pro	VT2P	95	212.9	18.6	0	34.4	620	7
Federal	4580VT2PRIB	VT2P,B	95	212.5	19.8	0	33.9	612	10
Latham	LH4437VT2ProRIB	VT2P,B	94	209.9	18.4	0	34.4	612	11
Anderson	795R	RR2	95	209.5	18.8	0	34.8	609	12
NuTech	E5GN-A395	3110	95	209.2	19.4	0	32.9	605	14
LG Seeds	LG44C27VT2PRO	VT2P	94	207.5	18.1	0	33.9	606	13
Renk	RK568VT2P	VT2P,B	94	206.4	19.3	0	34.8	597	16
Pioneer	P9330AM GC	AM,B	93	205.7	18.4	0	34.8	600	15
Golden Harvest	G95P13-3110	3110	95	205.3	18.8	0	34.8	596	17
NK Brand	NK9505-3110	3110	95	205.0	19.3	0	33.9	593	18
Mustang	3294VT2PRIB	VT2P,B	94	203.8	18.9	1	33.9	592	19
Thunder	6992VT2P	VT2P	92	202.6	18.2	0	34.4	592	20
Hefty	H4222VT2P	VT2P	92	202.6	19.3	0	34.4	586	23
NuTech	5G-293	3110,A	93	202.4	18.8	0	34.4	588	21
Enestvedt	E612RR	RR2	92	202.0	18.8	1	34.4	587	22
Enestvedt	E652RR	RR2	95	201.0	19.2	0	33.9	582	24
Latham	LH4454VT2ProRIB	VT2P,B	94	200.2	19.1	1	33.9	580	25
Proseed	1794VT2PRIB	VT2P,B	94	198.9	19.0	0	34.4	577	26
Dahlman	R48-28VT2PRIB	VT2P,B	95	196.9	19.6	0	33.9	568	29
Renk	RK433RR	RR2	92	196.4	18.9	2	33.4	570	27
Latham	LH4242VT2ProRIB	VT2P,B	92	195.7	19.0	0	34.8	568	30
Federal	4440VT3PRIB	VT3P,B	94	195.6	18.8	1	33.9	568	31
Thunder	6993VT2P	VT2P	93	194.3	17.8	0	34.8	569	28
Pioneer	P9492AM CK	AM,B	94	212.7	18.7	0	33.9	618	8
Averages =				205.7	18.9	0	34.1	597	
LSD (0.10) =				14.0	0.4	ns			
LSD (0.25) =				7.4	0.2	ns			
C.V. =				6.5	Prev. years average yield, 212.4 bu/a, 1 yr				

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Early-Season Test Products (36 Total)

Company/Brand	Product/Brand	Technol.	Seed Trt.	RM	Company/Brand	Product/Brand	Technol.	Seed Trt.	RM
Dahlman	R45-28VT2PRIB	VT2P,B	AC,P2	90					
Dairyland	DS-9686	3000GT	CM,C5,Vi,ln	86					
Dekalb	DKC35-88RIB GC	VT2P,B	AC,P2	85					
Enestvedt	E875RR	RR2	CM,C2,Vi	88					
Enestvedt	E878VT2PRIB	VT2P,B	AC,P2	87					
Golden Harvest	G88F37-3010A	3010,A	AVC,C2,Vi	88					
Golden Harvest	G89A09-3120-EZR	3120,B	AVC,C2,Vi	89					
Hefty	H3622VT2P	VT2P	HC	86					
Hefty	H3712VT2PRIB	VT2P,B	HC	87					
Hefty	H3922VT2P	VT2P	HC	89					
Hefty	H4102VT2PRIB	VT2P,B	HC	91					
Heine	600VT2PRO GC	VT2P	AC,P5V	91					
Latham	LH3755VT2ProRIB	VT2P,B	AC,P2	87					
Latham	LH3937VT2ProRIB	VT2P,B	AC,P5V	89					
Latham	LH4015VT2Pro	VT2P	AC,P5V	90					
Latham	LH4147VT2ProRIB	VT2P,B	AC,P2	91					
Mustang	2290VT2PRIB	VT2P,B	AC,P2	90					
Mustang	2291VT2PRIB	VT2P,B	AC,P2	91					
Mustang	3286VT2PRIB	VT2P,B	AC,P2	86					
Mustang	3287VT2PRIB	VT2P,B	AC,P2	87					
NK Brand	NK8618-3011A	3011,A	AVC,C2,Vi	86					
NK Brand	NK8920-3120-EZR	3120,B	AVC,C2,Vi	89					
NuTech	5BN-2889	3010	CM,C2,Vi	89					
NuTech	5N-886	3011,A	MQ,P5V,R	86					
NuTech/G2 Gen	E5FN-A386	OI	MQ,P5V,R	86					
Pioneer	P9188AM GC	AM,B	MQ,C2	91					
Pioneer	P9188AMX GC	AMX,B	MQ,C2	91					
Pioneer	P9492AM CK	AM,B	MQ,C2,R,Lu	94					
Proseed	1591VT2PRIB	VT2P,B	AC,P2	91					
Proseed	1689VT2PRIB	VT2P,B	AC,P2	89					
Proseed	1787VT2PRIB	VT2P,B	AC,P2	87					
Proseed	1790VT2PRIB	VT2P,B	AC,P2	90					
Renk	RK287VT2P	VT2P,B	AC,P2	87					
Renk	RK408VT2P	VT2P,B	AC,P2	90					
Thunder	6791VT2P	VT2P,B	AC,P2	91					
Titan Pro	83-87 2P	VT2P,B	AC,P2	87					

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Full-Season Test Products (36 Total)

Company/Brand	Product/Brand	Technol.	Seed Trt.	RM	Company/Brand	Product/Brand	Technol.	Seed Trt.	RM
Anderson	742R	RR2	MQ	92					
Anderson	795R	RR2	MQ	95					
Dahlman	R47-24VT2PRIB	VT2P,B	AC,P2	94					
Dahlman	R48-28VT2PRIB	VT2P,B	AC,P2	95					
Dairyland	DS-7294A	3220	CM,C5,Vi,ln	94					
Enestvedt	E612RR	RR2	CM,C2,Vi	92					
Enestvedt	E652RR	RR2	CM,C2,Vi	95					
Enestvedt	E656SSRIB	STX,B	AC,P5V	95					
Federal	4440VT3PRIB	VT3P,B	AC,P2	94					
Federal	4580VT2PRIB	VT2P,B	AC,P2	95					
Golden Harvest	G90Y04-3220A-EZR	3220,A,B	AVC,C2,Vi	92					
Golden Harvest	G95P13-3110	3110	AVC,C2,Vi	95					
Hefty	H4222VT2P	VT2P	HC	92					
Hefty	H4322VT2P	VT2P	HC	93					
Hefty	H4324SS	STX	HC	93					
Hefty	H4522VT2P	VT2P	HC	95					
Heine	6200VT2PRORIB GC	VT2P,B	AC,P2	95					
Latham	LH4242VT2ProRIB	VT2P,B	AC,P2	92					
Latham	LH4437VT2ProRIB	VT2P,B	AC,P2	94					
Latham	LH4454VT2ProRIB	VT2P,B	AC,P2	94					
Latham	LH4517VT2Pro	VT2P	AC,P5V	95					
LG Seeds	LG44C27VT2PRO	VT2P	AC,P5V	94					
Mustang	3294VT2PRIB	VT2P,B	AC,P2	94					
NK Brand	NK9227-3220A-EZR	3220,A,B	AVC,C2,Vi	92					
NK Brand	NK9505-3110	3110	AVC,C2,Vi	95					
NuTech	5G-293	3110,A	MQ,P5V,R	93					
NuTech	E5GN-A395	3110	AVC,Vi	95					
Pioneer	P9330AM GC	AM,B	MQ,C2,R,Lu	93					
Pioneer	P9492AM CK	AM,B	MQ,C2,R,Lu	94					
Proseed	1794VT2PRIB	VT2P,B	AC,P2	94					
Renk	8-536VT2P	VT2P	AC,P2	94					
Renk	RK433RR	RR2	AC,P2	92					
Renk	RK568VT2P	VT2P,B	AC,P2	94					
Thunder	6992VT2P	VT2P	AC,P5V	92					
Thunder	6993VT2P	VT2P	AC,P2	93					
Titan Pro	82-95 2P	VT2P,B	AC,P2	95					

Footnotes and Abbreviation Descriptions

Brand Footnotes

^	Innotech™ brand seed is distributed by Rob-See-Co, LLC. Phoenix® brand seed is distributed by Advanta Seeds. Power Plus® brand seed is distributed by Burrus. Innotech™ and Phoenix® are trademarks 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*

3000GT	Agrisure® 3000GT (CB,RW,LL,GT)	E	Enlist™ (2,4-D, glyphosate, fop herbicide tolerance)
3010	Agrisure® 3010 (CB,LL,GT)	GT	Agrisure® GT
3011,A	Agrisure® Artesian® (CB,RW,LL,GT)	HX	Herculex® 1, contains LL
3110	Agrisure® Viptera® 3110 (Vip, CB,LL,GT)	HXRW	Herculex® Rootworm, contains LL
3111	Agrisure® Viptera® 3111 (Vip,CB,RW,LL,GT)	HXT	Herculex® Xtra (HX,HXRW,LL)
3120	Agrisure® 3120 (CB,HX,LL,GT)	LL	LibertyLink®
3122	Agrisure® 3122 (CB,HXX,RW,LL,GT)	None	conventional corn
3220	Agrisure® Viptera® 3220 (Vip,CB,HX,LL,GT)	OI	Optimum® Intrasect®, YHR (YGCB,HX,LL,RR2)
A	Agrisure® Artesian®	OIX	Optimum® Intrasect® Xtra, YXR (YGCB,HXT,LL,RR2)
AM	Optimum® AcreMax® (YGCB,HX,LL,RR2)	OIXT	Optimum® Intrasect® Xtreme (YGCB,HXT,RW,LL,RR2)
AMT	Optimum® AcreMax® TRIsect (HX,RW,LL,RR2)	PC	PowerCore™ (HX, VT2P)
AMX	Optimum® AcreMax® Xtra (YGCB,HXT,LL,RR2)	RR2	Roundup Ready® 2 Corn
AMXT	Optimum® AcreMax® Xtreme (YGCB,HXT,RW,LL,RR2)	RW	Agrisure® Rootworm
AQ	Optimum® AQUAMax®	STX	SmartStax® (VT3P,HXT,RR2,LL)
B	Refuge blend product	VT2P	Genuity® VT Double PRO®
CB	Agrisure® Corn Borer	VT3P	Genuity® VT Triple PRO®
DG	Genuity® DroughtGard®	YGCB	YieldGard® Corn Borer

* The refuge component genetics may vary in a refuge blend seed product.

Corn Seed Treatments**

?	information not provided	Lu	Lumivia™
A	Allegiance®	M	Maxim XL®
AC	Acceleron® fungicide products	MQ	Maxim Quattro®
AL2500	Alert 2500	None	untreated
At	Actellic®	P2, P5, P1	Poncho® at 0.25, 0.5 and 1.25 mg ai/seed, respectively
AVC	Avicta® Complete Corn	R	Raxil®
C2, C5, C1	Cruiser® at 0.25, 0.5 and 1.25 mg ai/seed, respectively	Sa	Sativa™
CE	Cruiser Extreme®	Se	Sebring™
CM	CruiserMaxx® Corn	Sn	Senator™
D	Dynasty®	Sp	Spirato™
Es	Escalate®	SC	SHIELDCoat™
HC	Hefty Complete	V	Votivo®
In	Intego™ Solo	Vi	Vibrance®
L	Lorsban®		

** Seed treatments may include unspecified plant health promoting components.