

2019 Corn Grain Top 30 Performance Summary for Minnesota West Central [MNWC]

Early-Season Test

93 - 98 Day CRM

B2019MNWCa

Top 30 of 54

For Gross Income (Sorted by Yield), (14) Replication Average

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Gross Income \$/Acre	Rank	Clinton * REJECTED	Kerkhoven *	Lester Prairie	Sedan	Starbuck	Winthrop
HEFTY	H4732VT2P	VT2P	97	219.7	20.7	1	771	2	147.3	213.8	200.0	238.9	226.2	219.3
DAHLMAN	R48-21VT2PRIB	VT2P,B	96	219.2	20.5	0	772	1	166.0	237.3	209.9	234.3	226.3	188.4
LATHAM	LH4657VT2PRIB	VT2P,B	96	218.7	20.8	0	768	3	154.4	221.6	211.0	233.9	231.3	195.6
THUNDER	6996 VT2P	VT2P,B	96	214.8	20.5	0	757	4	151.6	224.1	178.0	250.3	216.3	205.2
RENK	RK579DGV2P	VT2P,DG,B	98	213.9	20.6	0	753	5	151.1	208.4	191.6	237.8	235.9	195.7
GOLDEN HARVEST	G97N86-3220-EZR	3220,B	97	213.6	20.3	0	752	8	150.5	225.2	216.2	221.4	204.7	200.5
HEFTY	H4812VT2PRIB	VT2P,B	98	213.1	20.0	1	753	6	150.4	232.5	200.5	225.1	214.5	193.1
HEFTY	H4612VT2PRIB	VT2P,B	96	213.1	20.7	1	750	9	151.1	216.9	199.0	232.1	228.3	189.0
HEFTY	H4332VT2P	VT2P	93	212.5	19.9	0	753	7	150.3	246.8	180.3	236.6	211.7	187.1
PROSEED	1996VT2PRIB	VT2P,B	96	210.0	20.7	0	739	10	150.2	240.7	189.7	234.4	204.5	180.6
HEFTY	H4522VT2PRIB	VT2P,B	95	209.3	20.9	4	735	12	150.7	235.3	195.4	227.3	207.3	181.0
HEINE	6200VT2PRORIB GC	VT2P,B	95	208.9	20.9	0	734	13	150.7	232.7	190.6	234.4	207.3	179.4
DYNA-GRO	D37VC64	VT2P	97	208.8	20.5	0	735	11	150.7	225.5	194.6	229.8	208.9	185.1
LATHAM	LH4795VT2PRIB	VT2P,B	97	208.8	21.2	1	731	18	150.4	215.8	196.1	232.2	204.4	195.3
RENK	RK593VT2P	VT2P	96	208.4	20.7	1	733	16	150.8	203.6	198.8	238.9	209.6	191.3
PROSEED	1998VT2PRIB	VT2P,B	98	208.4	20.6	0	733	15	150.9	210.4	215.0	224.1	222.5	169.9
ANDERSON	609R	RR2	98	208.1	20.7	10	731	19	150.7	216.4	181.4	241.2	195.2	206.6
TITAN PRO	82-95 2P	VT2P,B	95	208.1	20.9	2	731	20	150.0	208.5	190.9	231.8	224.2	185.2
THUNDER	6098 VT2P	VT2P,B	98	208.1	21.1	2	729	22	150.4	214.0	196.7	215.2	214.5	200.0
DAIRYLAND	DS-3810AM	AM	98	208.0	20.9	0	731	21	150.2	238.1	178.7	223.9	209.8	189.6
DAHLMAN	R47-26VT2PRIB	VT2P,B	94	207.6	20.2	0	734	14	150.8	214.0	172.4	226.1	226.6	199.1
RENK	RK587VT2P	VT2P,B	97	207.6	20.4	0	732	17	150.0	220.7	184.9	218.1	216.1	198.2
DYNA-GRO	D39VC40	VT2P	98	206.9	20.7	0	727	24	150.6	189.1	202.5	226.3	230.0	186.8
LATHAM	LH4517VT2PRIB	VT2P,B	95	206.6	20.5	0	728	23	150.9	202.0	194.9	245.0	223.1	168.0
FEDERAL	4680VT2PRIB	VT2P,B	96	206.3	20.5	0	727	25	150.1	205.5	198.5	236.2	213.5	178.1
ENESTVEDT	E660SS RIB	STX,B	97	204.3	21.1	0	717	30	150.0	214.2	177.5	217.1	222.2	190.8
NK BRAND	NK9738-3220-EZR	3220,B	97	204.3	20.5	1	720	26	150.3	209.7	169.5	241.5	205.8	195.1
DAIRYLAND	DS-3750AM	AM	97	204.0	20.5	2	718	28	150.1	224.7	191.4	220.5	195.6	187.8
FEDERAL	4580VT2PRIB	VT2P,B	95	203.9	20.6	0	718	27	174.0	211.2	166.8	248.7	201.8	191.1
GOLDEN HARVEST	G95M41-3010	3010	95	202.6	19.8	0	717	29	159.5	223.3	181.6	223.9	192.2	192.2
PIONEER	P0157AMXT CK	AMXT,AQ,B	101	182.9	21.9	0	637	54	183.0	159.2	147.6	212.2	202.6	193.0
Averages =				204.3	20.6	2	720		158.6	209.4	187.1	229.1	210.5	187.1
LSD (0.10) =				9.7	0.3	3			28.0	28.4	21.6	9.3	13.3	14.1
Ed Dahle LSD (0.25) =				5.1	0.2	2			14.7	14.9	11.4	4.9	7.0	7.4

Not in summary - variability due to wind damage

ed.dahle@firstseedtests.com, (507) 456-6624

Yield & Income Factors:

Base Moisture = 15.0%

Shrink = 1.3

Drying = \$0.03

Prices: GMO = \$3.75

† 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. *There were 2 reps for the site.

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2019 Corn Grain Top 30 Performance Summary for Minnesota West Central [MNWC]

Full-Season Test

99 - 102 Day CRM

B2019MNWCb

Top 30 of 45

For Gross Income (Sorted by Yield), (15) Replication Average

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Gross Income \$/Acre	Rank	Clinton REJECTED	Kerkhoven	Lester Prairie	Sedan	Starbuck	Winthrop
FEDERAL	5280VT2PRIB	VT2P,B	102	232.1	21.7	1	809	1	166.9	237.8	240.1	246.6	223.7	212.3
LATHAM	EX 5035 VT2P	VT2P	100	228.0	21.4	2	797	2	144.0	224.7	241.0	238.1	235.7	200.7
HEINE	6550VT2PRO GC	VT2P	99	227.1	21.2	1	795	3	139.9	226.7	222.9	256.0	230.4	199.4
HEFTY	H5212VT2PRIB	VT2P,B	102	223.9	21.5	1	781	4	135.5	232.5	241.8	230.2	215.2	199.7
FEDERAL	5000VT2P	VT2P	100	222.1	21.3	0	778	5	131.1	229.9	218.7	255.6	226.5	179.9
LATHAM	LH5245VT2PRIB	VT2P,B	102	220.9	21.6	0	768	7	126.6	218.1	255.3	221.0	201.0	209.2
HEFTY	H5132VT2P	VT2P	101	220.5	21.4	2	770	6	127.7	206.0	237.0	238.1	226.8	194.9
DAHLMAN	R52-24VT2PRIB	VT2P,B	103	220.2	21.6	0	768	8	120.0	209.2	217.0	244.4	213.3	216.9
FEDERAL	4990VT2PRIB	VT2P,B	99	219.4	21.4	2	766	9	127.7	227.1	217.1	232.0	211.9	209.0
TITAN PRO	92-99 2P	VT2P,B	99	218.0	20.6	1	766	10	127.7	217.0	233.6	219.3	228.4	191.7
THUNDER	6902 VT2P	VT2P,B	102	216.0	21.5	0	754	12	121.8	215.4	224.7	228.6	215.1	196.3
INTEGRA	5081 GC	VT2P,DG,B	100	215.6	21.6	0	753	13	121.8	222.5	218.2	216.1	230.3	190.6
TITAN PRO	TP 75-01 SS	STX,B	101	215.4	21.2	0	755	11	124.4	226.6	210.3	236.9	222.9	180.6
DAIRYLAND	DS-4000AMXT	AMXT	101	214.9	21.6	2	751	14	127.7	231.6	211.5	227.3	227.2	177.0
LATHAM	LH4937VT2PRIB	VT2P,B	99	213.2	20.7	0	750	15	121.1	209.8	202.0	251.3	214.4	188.3
ENESTVEDT	E699DP RIB	VT2P,B	99	212.8	20.6	0	749	16	124.4	215.1	214.9	217.9	230.0	186.2
RENK	RK608DGVT2P	VT2P,DG,B	100	212.3	21.6	0	742	20	122.2	207.3	214.1	245.7	213.3	180.9
GOLDEN HARVEST	G02K39-3120-EZR	3120,B	102	212.1	21.2	2	742	21	124.4	229.2	211.5	214.6	203.4	201.7
DEKALB	DKC50-08RIB GC	STX,B	100	212.0	21.4	1	742	22	121.5	219.9	214.1	234.2	216.4	175.5
HEFTY	H4933VT2PDGRIB	VT2P,DG,B	99	211.7	20.9	1	743	17	127.7	223.3	203.2	214.4	220.6	197.1
HEFTY	H4922VT2PRIB	VT2P,B	99	210.9	20.6	0	743	18	123.3	218.8	218.0	232.5	225.1	160.0
THUNDER	6999 VT2P	VT2P,B	99	210.8	20.4	1	743	19	129.9	229.0	203.5	213.2	225.7	182.8
NK BRAND	NK0243-3120-EZR	3120,B	102	210.7	21.5	3	734	23	121.1	193.9	232.5	206.8	216.3	204.3
RENK	RK621VT2P	VT2P	102	209.9	21.8	3	731	26	129.9	173.3	211.8	232.7	230.2	201.4
GOLD COUNTRY	102-88R2P	VT2P,B	102	209.7	21.4	1	734	24	120.0	222.9	198.4	225.9	213.5	188.0
GOLD COUNTRY	102-07RSS	STX,B	102	208.8	22.0	1	726	29	126.6	203.9	218.9	223.3	201.6	196.1
GOLDEN HARVEST	G00H12-3010	3010	100	208.1	21.0	3	728	27	123.3	211.0	234.5	210.6	199.7	184.5
DAHLMAN	R51-22VT2PRIB	VT2P,B	101	207.9	20.6	0	732	25	125.5	216.8	195.6	234.3	216.4	176.3
GOLD COUNTRY	99-30RSS	STX,B	99	207.2	21.0	0	727	28	170.5	218.6	209.4	237.0	196.8	174.1
PIONEER	P9998AMXT GC	AMXT,AQ,B	99	206.9	21.5	0	724	30	173.5	208.0	193.9	216.0	236.1	180.7
PIONEER	P0157AMXT CK	AMXT,AQ,B	101	195.5	22.0	0	681	44	183.3	180.2	192.8	212.3	210.4	182.0
Averages =				210.8	21.3	2	737		153.3	211.2	213.8	224.7	215.3	188.9
LSD (0.10) =				8.1	0.3	3			23.9	19.1	15.3	14.4	12.8	14.2
Ed Dahle LSD (0.25) =				4.3	0.1	1			12.5	10.0	8.0	7.6	6.7	7.4

Not in summary - variability due to wind damage

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Yield & Income Factors:

Base Moisture = 15.0%

Shrink = 1.3

Drying = \$0.03

Prices: GMO = \$3.75

† 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. *There were 2 reps for the site.

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Early-Season Test Products (54 Total)

Company/Brand	Product/Brand	Technology	RM
ANDERSON	609R	RR2	98
ANDERSON	609VT2P	VT2P,B	98
AUGUSTA	A2345	3220,B	96
DAHLMAN	R47-26VT2PRIB	VT2P,B	94
DAHLMAN	R48-21VT2PRIB	VT2P,B	96
DAHLMAN	R48-28VT2PRIB	VT2P,B	95
DAHLMAN	R49-23VT2PRIB	VT2P,B	98
DAHLMAN	R49-25VT2PRIB	VT2P,B	98
DAIRYLAND	DS-3519AM	AM,B	96
DAIRYLAND	DS-3550AM	AM	95
DAIRYLAND	DS-3715AM	AM,B	98
DAIRYLAND	DS-3750AM	AM	97
DAIRYLAND	DS-3810AM	AM	98
DEKALB	DKC47-54 RIB GC	STX,B	97
DYNA-GRO	D37VC64	VT2P	97
DYNA-GRO	D39VC40	VT2P	98
ENESTVEDT	E658DP RIB	VT2P,B	96
ENESTVEDT	E660SS RIB	STX,B	97
FEDERAL	4580VT2PRIB	VT2P,B	95
FEDERAL	4680VT2PRIB	VT2P,B	96
FEDERAL	4805SSTAX	STX	98
FEDERAL	4880VT2PRIB	VT2P,B	98
GOLDEN HARVEST	G95M41-3010	3010	95
GOLDEN HARVEST	G97N86-3220-EZR	3220,B	97
HEFTY	H4332VT2P	VT2P	93
HEFTY	H4522VT2PRIB	VT2P,B	95
HEFTY	H4612VT2PRIB	VT2P,B	96
HEFTY	H4732VT2P	VT2P	97
HEFTY	H4812VT2PRIB	VT2P,B	98
HEINE	6200VT2PRORIB GC	VT2P,B	95
LATHAM	LH4375VT2PRIB	VT2P,B	93
LATHAM	LH4437VT2PRIB	VT2P,B	94
LATHAM	LH4517VT2PRIB	VT2P,B	95
LATHAM	LH4657VT2PRIB	VT2P,B	96
LATHAM	LH4795VT2PRIB	VT2P,B	97
NK BRAND	NK9227-3220A-EZR	3220,A,B	92

Company/Brand	Brand/Product	Technology	RM
NK BRAND	NK9610-3010	3010	96
NK BRAND	NK9738-3220-EZR	3220,B	97
PIONEER	P0157AMXT CK	AMXT,AQ,B	101
PIONEER	P9492AM GC	AM,B	94
PROSEED	1996VT2PRIB	VT2P,B	96
PROSEED	1998VT2PRIB	VT2P,B	98
RENK	RK561DGV2P	VT2P,DG	95
RENK	RK579DGV2P	VT2P,DG,B	98
RENK	RK587VT2P	VT2P,B	97
RENK	RK593VT2P	VT2P	96
THUNDER	6094 VT2P	VT2P,B	94
THUNDER	6098 VT2P	VT2P,B	98
THUNDER	6595 VT2P	VT2P,B	95
THUNDER	6993 VT2P	VT2P,B	93
THUNDER	6996 VT2P	VT2P,B	96
TITAN PRO	82-95 2P	VT2P,B	95
TITAN PRO	86-96 2P	VT2P,B	96
TITAN PRO	90-94 2P	VT2P,B	94

2019 Corn Grain - Minnesota West Central [MNWC]

Full-Season Test Products (45 Total)

Company/Brand	Product/Brand	Technology	RM
ANDERSON	611SRC	STX,B	100
ANDERSON	611VT2P	VT2P,B	100
AUGUSTA	A3052	3110	102
DAHLMAN	R50-357SSRIB	STX,B	100
DAHLMAN	R51-22VT2PRIB	VT2P,B	101
DAHLMAN	R52-24VT2PRIB	VT2P,B	103
DAIRYLAND	DS-4000AMXT	AMXT	101
DAIRYLAND	DS-4018AM	AM,AQ,B	101
DAIRYLAND	DS-4019AM	AM,B	99
DEKALB	DKC50-08RIB GC	STX,B	100
ENESTVEDT	E696SS RIB	STX,B	100
ENESTVEDT	E699DP RIB	VT2P,B	99
FEDERAL	4880SSTAX	STX,B	99
FEDERAL	4990VT2PRIB	VT2P,B	99
FEDERAL	5000VT2P	VT2P	100
FEDERAL	5280VT2PRIB	VT2P,B	102
GOLD COUNTRY	101-60RSS	STX,B	101
GOLD COUNTRY	102-07RSS	STX,B	102
GOLD COUNTRY	102-88R2P	VT2P,B	102
GOLD COUNTRY	99-30RSS	STX,B	99
GOLDEN HARVEST	G00H12-3010	3010	100
GOLDEN HARVEST	G02K39-3120-EZR	3120,B	102
HEFTY	H4922VT2PRIB	VT2P,B	99
HEFTY	H4933VT2PDGRIB	VT2P,DG,B	99
HEFTY	H5132VT2P	VT2P	101
HEFTY	H5212VT2PRIB	VT2P,B	102
HEINE	6550VT2PRO GC	VT2P	99
INTEGRA	5081 GC	VT2P,DG,B	100
LATHAM	EX 5035 VT2P	VT2P	100
LATHAM	LH4937VT2PRIB	VT2P,B	99
LATHAM	LH5025VT2PDGRIB	VT2P,DG,B	100
LATHAM	LH5245VT2PRIB	VT2P,B	102
LATHAM	LH5377VT2PRIB	VT2P,B	100
NK BRAND	NK0243-3120-EZR	3120,B	102
NK BRAND	NK9930-3010	3010	99
PIONEER	P0157AMXT CK	AMXT,AQ,B	101

Company/Brand	Brand/Product	Technology	RM
PIONEER	P9998AMXT GC	AMXT,AQ,B	99
RENK	RK604SSTX	STX,B	102
RENK	RK608DGVT2P	VT2P,DG,B	100
RENK	RK621VT2P	VT2P	102
RENK	RK626SSTX	STX	102
THUNDER	6902 VT2P	VT2P,B	102
THUNDER	6999 VT2P	VT2P,B	99
TITAN PRO	92-99 2P	VT2P,B	99
TITAN PRO	TP 75-01 SS	STX,B	101

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 Grain Technologies*

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)
3330	Agrisure® Viptera® 3330 (Vip,CB,HX,LL,GT)	OIX	Optimum® Intrasect® Xtra, YXR (YGCB,HXT,LL,RR2)
A	Agrisure® Artesian®	OIXT	Optimum® Intrasect® Xtreme (YGCB,HXT,RW,LL,RR2)
AM	Optimum® AcreMax® (YGCB,HX,LL,RR2)	PC	PowerCore™ (HX, VT2P)
AMT	Optimum® AcreMax® TRIssect (HX,RW,LL,RR2)	RR2	Roundup Ready® 2 Corn
AMX	Optimum® AcreMax® Xtra (YGCB,HXT,LL,RR2)	RW	Agrisure® Rootworm
AMXT	Optimum® AcreMax® Xtreme (YGCB,HXT,RW,LL,RR2)	STX	SmartStax® (VT3P,HXT,RR2,LL)
AQ	Optimum® AQUAMax®	TRE	Genuity® Trecepta™
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
E	Enlist™ (2,4-D, glyphosate, fop herbicide tolerance)		

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