

2016 Corn Grain Top 30 Performance Summary for Minnesota West Central [MNWC]



Early-Season Test

93 - 98 Day CRM

B2016MNWCa

Top 30 of 63

For Gross Income (Sorted by Yield), (18) Replication Average

Company/Brand	Product/Brand†	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Gross Income \$/A	Rank	Clinton	Granite Falls	Kerkhoven	Litchfield	Starbuck	Winthrop
Channel	193-53STXRIB	STX,B	93	222.0	17.7	0	651	1	233.4	205.4	198.7	228.8	212.7	252.7
NuTech/G2 Gen	5F-196 [^]	AM,B	96	220.9	18.1	2	646	2	228.8	185.2	212.3	231.2	207.6	260.0
Titan Pro	TP 54-98 2P	VT2P,B	98	218.8	17.8	0	641	3	245.7	226.1	190.7	204.3	211.1	234.6
Channel	195-18VT2PRIB	VT2P,B	95	218.1	18.0	0	638	5	233.0	204.0	202.8	230.1	201.4	237.3
Dyna-Gro	D34VC54	VT2P	94	218.0	17.8	1	639	4	237.5	192.9	191.1	231.1	199.7	255.9
Dyna-Gro	D35SS58	STX	95	216.8	17.8	1	635	6	240.0	203.5	205.3	221.2	200.4	230.6
Titan Pro	TP 58-95 SS	STX,B	95	216.5	17.9	0	634	7	247.0	182.2	203.2	232.9	203.8	230.1
Latham	LH4529SS	STX	95	216.4	18.0	0	633	8	249.3	160.0	211.6	238.1	200.0	239.3
Mustang	4298GENVT2PRIB	VT2P,B	98	216.0	17.7	0	633	9	234.9	196.3	192.5	207.8	224.1	240.6
Channel	197-50VT2PRIB	VT2P,B	97	215.5	17.9	0	631	12	241.1	201.0	168.8	231.4	208.4	242.4
Renk	RK568VT3P	VT3P	95	215.4	17.6	0	632	11	238.4	214.6	179.9	218.2	199.8	241.2
Viking	E52-95R	VT2P,B	95	214.8	18.0	0	628	15	231.2	197.7	195.2	217.0	207.7	239.8
Latham	LH4437VT2Pro	VT2P	94	214.4	17.5	1	630	13	242.7	186.9	185.6	220.1	207.2	244.0
Dekalb	DKC46-36RIB GC	STX,B	96	214.4	18.3	1	626	18	231.8	194.4	193.0	229.0	206.4	231.9
LG Seeds	LG5415STXRIB	STX,B	93	213.9	17.3	0	629	14	240.7	197.9	187.5	213.8	201.2	242.0
Mustang	3294GENVT2P	VT2P	94	213.8	17.5	2	628	16	240.1	167.0	208.0	213.3	212.0	242.2
NorthStar	NS96-578VT3PRIB	VT3P,B	96	213.5	17.4	0	628	17	230.5	204.6	184.8	217.1	208.8	234.9
Renk	RK596SSTX	STX,B	98	213.5	18.1	0	624	21	241.0	209.0	199.0	204.9	187.6	239.2
Federal	4760SSTAXRIB	STX,B	97	213.4	18.0	0	624	22	227.8	204.6	185.0	218.8	205.1	239.2
Enestvedt	E652VT3Pro	VT3P	95	213.2	17.6	0	626	19	237.7	186.3	194.0	214.5	210.2	236.6
NuTech/G2 Gen	5F-198 [^]	AM,B	98	213.0	17.7	2	625	20	223.7	191.2	181.5	237.8	196.4	247.1
NorthStar	NS95-421GENSSRIB	STX,B	95	212.6	17.6	0	624	23	232.9	209.7	194.7	222.1	198.1	217.8
NorthStar	NS96-103GENSS	STX	96	212.5	17.9	0	622	25	235.4	197.7	184.8	217.8	194.8	244.4
Dahlman	R47-24VT2P	VT2P	94	212.1	17.4	1	624	24	244.7	199.3	182.4	212.9	199.1	234.3
LG Seeds	LG5410VT2PRIB	VT2P,B	92	211.4	17.4	0	622	26	239.2	194.5	179.9	218.6	210.6	225.5
Pioneer	P9526AMXT GC	AMXT,AQ,B	95	211.0	17.8	4	618	28	211.0	202.1	200.7	223.6	199.1	229.4
Latham	LH4454VT2ProRIB	VT2P,B	94	210.8	17.8	0	618	29	234.0	191.4	181.2	218.2	196.6	243.1
Renk	RK522SSTX	STX,B	94	210.6	17.5	3	619	27	241.3	176.9	194.2	216.1	211.6	223.2
Dahlman	R48-301SSRIB	STX,B	95	210.1	17.9	2	615	30	226.7	199.8	200.9	202.9	195.8	234.6
Anderson	795R	RR2	95	209.3	17.5	0	615	31	230.1	197.7	181.8	204.8	209.9	231.6
Dekalb	DKC48-56RIB CK	STX,B	98	216.5	18.3	2	632	10	237.1	207.7	187.4	219.8	209.8	237.3
Averages =				208.8	17.8	1	612		229.4	184.6	187.6	217.1	200.6	233.2
LSD (0.10) =				11.9	0.3	2			14.6	30.5	22.4	15.8	15.5	18.9
LSD (0.25) =				8.3	0.2	2			10.2	21.3	15.6	11.0	10.8	13.2
Ed Dahle										Previous years average yield for region, 196.7 bu/a, 14 yrs				
ed.dahle@firstseedtests.com, (507) 456-6624														

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

† See last page for additional information. Dark shaded 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 test grain moisture limit. ns = not significantly different; ‡ = 2 reps.

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Report Date: 11/03/2016

Revised:

2016 Corn Grain Top 30 Performance Summary for Minnesota West Central [MNWC]



Test by: NewVenture, LLC, Ellendale, MN

Full-Season Test

99 - 102 Day CRM

B2016MNWCb

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For Gross Income (Sorted by Yield), (18) Replication Average

Company/Brand	Product/Brand†	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Gross Income \$/A	Rank	Clinton	Granite Falls	Kerkhoven	Litchfield	Starbuck	Winthrop
NuTech/G2 Gen	5Z-601 ^A	OI,AQ	101	226.9	18.6	3	660	1	241.2	211.2	200.0	214.3	227.4	267.4
NuTech/G2 Gen	5K-702 ^A	OIXT	102	224.7	19.1	2	651	3	240.6	184.8	219.6	220.2	219.1	264.0
Renk	RK608DGV2P	VT2P,DG	100	224.5	18.2	0	656	2	239.4	210.0	206.4	219.1	219.8	252.1
Dekalb	DKC50-84RIB GC	VT2P,B	100	222.4	18.5	2	648	6	228.8	211.0	198.1	229.1	220.9	246.5
Titan Pro	TP 65-00 2P	VT2P,DG	100	222.1	18.2	0	649	5	233.1	189.1	202.7	227.5	223.3	257.0
Channel	199-29STXRIB	STX,B	99	221.2	18.0	0	647	7	225.1	214.6	193.5	224.3	225.7	244.0
LG Seeds	LG5501VT2PRIB	VT2P,B	100	219.9	18.0	0	643	8	237.9	210.0	175.2	218.2	219.1	259.1
Pioneer	P0297AMXT GC	AMXT,AQ,B	102	219.5	19.8	0	632	14	228.7	208.2	189.9	223.9	218.8	247.3
Pfister	60B1SSR	STX,B	100	219.1	18.6	1	638	9	225.4	223.7	187.9	227.1	208.1	242.2
Dyna-Gro	D42SS61	STX	102	219.1	19.0	0	635	10	226.8	195.6	208.5	216.3	209.7	257.7
NorthStar	NS100-531GENSS	STX	100	218.4	19.0	0	633	12	226.2	188.8	209.2	216.4	221.2	248.3
Prairie Brand	5026RA	STX,B	100	218.2	18.9	0	633	13	228.5	219.6	201.3	211.8	205.3	242.6
Dairyland	DS-9701RA	STX,B	101	217.6	18.4	1	634	11	231.0	213.8	176.8	216.7	210.4	256.9
Pfister	61C1VX	HXT,RR2	101	217.3	19.1	1	630	15	232.7	197.3	199.9	230.8	194.4	248.7
Mustang	6800GENSS	STX	100	217.2	18.9	0	630	16	232.1	211.2	192.1	215.8	211.0	240.8
Federal	5245VT2P	VT2P	102	215.9	19.0	6	626	19	226.9	206.3	184.1	212.3	225.3	240.6
Renk	RK595SSTX	STX	99	215.7	18.2	0	630	17	235.3	204.4	178.7	215.1	217.0	243.9
Dahlman	R50-357SSRIB	STX,B	100	215.6	18.9	0	626	20	231.2	200.1	189.4	215.8	219.2	238.0
LG Seeds	LG5499STXRIB	STX,B	100	215.6	19.3	0	624	21	226.2	196.3	185.4	229.4	214.3	242.0
Channel	201-28VT2PRIB	VT2P,B	101	215.4	18.1	1	630	18	242.1	208.0	191.5	217.4	195.1	238.3
Dairyland	DS-9802	STX	102	214.4	19.1	0	621	23	218.2	201.7	180.1	217.4	215.6	253.4
Channel	202-52STXRIB	STX,B	102	214.2	18.8	0	622	22	229.1	188.9	190.1	215.2	208.7	253.0
Latham	LH5215VT2ProRIB	VT2P,B	102	213.2	19.0	2	618	26	235.5	200.4	184.8	208.8	216.5	232.9
LG Seeds	LG5470STXRIB	STX,B	98	213.1	18.5	0	621	24	229.3	187.9	184.7	221.2	221.9	233.7
Dairyland	DS-9599	3000GT	99	213.1	18.5	4	621	25	233.0	190.5	176.6	227.0	211.8	239.7
Federal	5060SSTAX	STX	100	212.9	18.9	0	618	27	232.1	198.6	183.3	214.5	202.3	246.6
Renk	RK666SSTX	STX,B	102	212.7	18.8	0	618	28	238.9	197.3	173.3	211.4	214.8	240.5
Titan Pro	TP 31-01 3011A	3011,A	101	212.5	18.7	6	618	29	219.9	188.7	191.8	209.3	225.9	239.4
Viking	D71-00RL	STX,B	100	211.4	18.3	0	617	31	241.3	166.4	188.5	215.8	219.3	236.9
Latham	LH4955VT2ProRIB	VT2P,B	99	210.8	17.8	0	618	30	211.0	211.6	178.1	212.8	202.7	248.7
Dekalb	DKC48-56RIB CK	STX,B	98	222.7	18.3	1	650	4	230.9	210.5	209.8	223.3	224.5	237.3
Averages =				212.8	18.6	2	619		227.7	194.9	185.2	214.6	213.4	240.9
LSD (0.10) =				11.3	0.3	5			14.4	22.0	19.5	17.9	14.0	18.8
LSD (0.25) =				7.9	0.2	3			10.1	15.3	13.6	12.5	9.8	13.1
Ed Dahle									Previous years average yield for region, 196.7 bu/a, 14 yrs					
ed.dahle@firstseedtests.com, (507) 456-6624														

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

† See last page for additional information. Dark shaded 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 test grain moisture limit. ns = not significantly different; ‡ = 2 reps.

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Report Date: 11/03/2016

Revised:

Early-Season Test Products (63 Total)

Company/Brand	Product/Brand†	Technol.†	Seed Trt.†	RM
Anderson	684R	RR2	MQ	98
Anderson	795R	RR2	MQ	95
Channel	193-53STXRIB	STX,B	AC,P5V	93
Channel	194-14VT2PRIB	VT2P,B	AC,P5V	94
Channel	195-18VT2PRIB	VT2P,B	AC,P5V	95
Channel	197-50VT2PRIB	VT2P,B	AC,P5V	97
Dahlman	R47-24VT2P	VT2P	AC,P2	94
Dahlman	R48-301SSRIB	STX,B	AC,P5V	95
Dahlman	R49-342SS	STX	AC,P5V	98
Dairyland	DS-7294	3110	CM,C5,Vi,In	94
Dairyland	DS-9198RA	STX,B	CM,C5,Vi,In	98
Dekalb	DKC46-36RIB GC	STX,B	AC,P5V	96
Dekalb	DKC48-56RIB CK	STX,B	AC,P5V	98
Dyna-Gro	D34VC54	VT2P	AC,P5V	94
Dyna-Gro	D35SS58	STX	AC,P5V	95
Enestvedt	E652VT3Pro	VT3P	CM,C2	95
Enestvedt	E656SSRIB	STX,B	AC,P5	95
Federal	4240VT2PRIB	VT2P,B	AC,P2	92
Federal	4558SSTAXRIB	STX,B	AC,P5V	95
Federal	4760SSTAXRIB	STX,B	AC,P5V	97
Federal	4870SSTAX	STX	AC,P5V	98
Latham	LH4437VT2Pro	VT2P	AC,P5V	94
Latham	LH4454VT2ProRIB	VT2P,B	AC,P2	94
Latham	LH4529SS	STX	AC,P5V	95
Latham	LH4859SSRIB	STX,B	AC,P5V	98
LG Seeds	LG5410VT2PRIB	VT2P,B	AC,P5V	92
LG Seeds	LG5415STXRIB	STX,B	AC,P5V	93
LG Seeds	LG5467STX	STX	AC,P5V	97
Mustang	3294GENVT2P	VT2P	AC,P2	94
Mustang	3894GENSSRIB	STX,B	AC,P5V	94
Mustang	4298GENVT2PRIB	VT2P,B	AC,P2	98
NorthStar	NS94-125GENSSRIB	STX,B	AC,P2V	94
NorthStar	NS95-421GENSSRIB	STX,B	AC,P5V	95
NorthStar	NS96-103GENSS	STX	AC,P5V	96
NorthStar	NS96-578VT3PRIB	VT3P,B	AC,P2	96
NuTech	5B-293	3010	MQ,P5V,R	93
NuTech/G2 Gen	5F-196^	AM,B	MQ,P5V	96
NuTech/G2 Gen	5F-198^	AM,B	MQ,P5V,R	98
NuTech/G2 Gen	X5Z-9501^	OI	MQ,P1V,R	95
Pfister	1740RASS	STX,B	CM,C5,Vi,In	98
Pfister	57A1SSR	STX,B	CM,C5,Vi,In	97
Pioneer	P9526AMXT GC	AMXT,AQ,B	MQ,C2	95

Company/Brand	Product/Brand†	Technol.†	Seed Trt.†	RM
Pioneer	P9834AMX GC	AMX,B	MQ,C2	98
Prairie Brand	4776RA	STX,B	CM,C5,Vi,In	97
Prairie Brand	4895GT3	3000GT	CM,C5,Vi,In	98
Proseed	PX694VT2P GC	VT2P	AC,P2	94
Renk	RK522SSTX	STX,B	AC,P5V	94
Renk	RK566SSTX	STX	AC,P5V	94
Renk	RK568VT3P	VT3P	AC,P2	95
Renk	RK596SSTX	STX,B	AC,P5V	98
Terning Seed	TS8249RR GC	RR2	AC,P2	95
Terning Seed	TS8299SS GC	STX	AC,P5V	98
Thunder	7396VT2PRIB	VT2P,B	AC,P2	96
Thunder	7993VT2PRIB	VT2P,B	AC,P2	93
Titan Pro	TP 48-93 2P	VT2P,B	AC,P2	93
Titan Pro	TP 54-98 2P	VT2P,B	AC,P2	98
Titan Pro	TP 58-95 SS	STX,B	AC,P5V	95
Titan Pro	TP 68-98 SS	STX	AC,P5V	98
Tracy Seeds	T093-26 Vip3110A GC	3110,A	CM,C2	93
Tracy Seeds	T095-25 3000GT GC	3000GT	CM,C2	95
Viking	A81-98R	RR2	AC,P2	98
Viking	D47-96RL	STX	AC,P2	96
Viking	E52-95R	VT2P,B	AC,P2	95

2016 Corn Grain - Minnesota West Central [MNWC]



Full-Season Test Products (54 Total)

Company/Brand	Product/Brand†	Technol.†	Seed Trt.†	RM
Anderson	533R	RR2	MQ	103
Channel	199-29STXRIB	STX,B	AC,P5V	99
Channel	201-28VT2PRIB	VT2P,B	AC,P5V	101
Channel	202-20STXRIB	STX,B	AC,P5V	102
Channel	202-52STXRIB	STX,B	AC,P5V	102
Dahlman	R49-315SSRIB	STX,B	AC,P5V	99
Dahlman	R50-357SSRIB	STX,B	AC,P5V	100
Dahlman	R52-328SSRIB	STX,B	AC,P5V	103
Dairyland	DS-9599	3000GT	CM,C5,Vi,In	99
Dairyland	DS-9701RA	STX,B	CM,C2	101
Dairyland	DS-9802	STX	CM,C5,Vi,In	102
Dekalb	DKC48-56RIB CK	STX,B	AC,P5V	98
Dekalb	DKC50-84RIB GC	VT2P,B	AC,P2	100
Dyna-Gro	D42SS61	STX	AC,P5V	102
Enestvedt	E696SSRIB	STX,B	AC,P5	100
Federal	5060SSTAX	STX	AC,P5V	100
Federal	5060VT2PRIB	VT2P,B	AC,P2	100
Federal	5245VT2P	VT2P	AC,P2	102
Latham	LH4955VT2ProRIB	VT2P,B	AC,P2	99
Latham	LH5099SS	STX	AC,P5V	100
Latham	LH5175VT2ProDGRIB	VT2P,DG,B	AC,P2	101
Latham	LH5215VT2ProRIB	VT2P,B	AC,P2	102
LG Seeds	LG5470STXRIB	STX,B	AC,P5V	98
LG Seeds	LG5499STXRIB	STX,B	AC,P5V	100
LG Seeds	LG5501VT2PRIB	VT2P,B	AC,P5V	100
Mustang	6800GENSS	STX	AC,P5V	100
NorthStar	NS100-531GENSS	STX	AC,P2	100
NorthStar	NS101-151GENSSRIB	STX,B	AC,P5V	101
NorthStar	NS102-304 3011A	3011,A	CM,C2,Vi	102
NorthStar	NS99-344 3011A	3011,A	CM,C2,Vi	99
NuTech	5N-800	3011,A	MQ,P5V,R	100
NuTech	X5V-9901	3111,A	AVC,C2,Vi	99
NuTech/G2 Gen	5H-502 ^A	HX,RR2	MQ,P5V	102
NuTech/G2 Gen	5K-702 ^A	OIXT	MQ,P1V,R	102
NuTech/G2 Gen	5Z-601 ^A	OI,AQ	MQ,P1V,R	101
NuTech/G2 Gen	X5Y-9902 ^A	OIX	MQ,P1V,R	99
Pfister	60B1SSR	STX,B	CM,C5,Vi,In	100
Pfister	61C1VX	HXT,RR2	CM,C5,Vi,In	101
Pfister	62A1VX	HXT,RR2	CM,C5,Vi,In	102
Pioneer	P029TAMXT GC	AMXT,AQ,B	MQ,C2	102
Prairie Brand	5026RA	STX,B	CM,C5,Vi,In	100
Prairie Brand	5127SX	STX	CM,C5,Vi,In	101

[illegible]

Footnotes and Abbreviation Descriptions

Brand Footnotes

^	^ G2® brand seed is distributed by NuTech Seed, LLC. Catalyst™ and Power Plus® brand seed is distributed by Burrus. HPT® brand seed is distributed by Hoegemeyer Hybrids, Innotech™ brand seed is distributed by Rob-See-Co, LLC. RPM® brand seed is distributed by Doebler's PA Hybrids, Inc. Supreme EX® brand seed is distributed by Seed Consultants, Inc. VPMxx® brand seed is distributed by AgVenture, Inc. XL® and Phoenix® brand seed is distributed by Beck's Superior Hybrids. Curry®, G2®, HPT®, Power Plus®, RPM®, Supreme EX®, VPMxx® and XL® are registered trademarks of DuPont Pioneer. Catalyst™, Innotech™ and Phoenix® are trademarks of Syngenta.
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)	HX	Herculex® 1, contains LL
3010	Agrisure® 3010 (CB,LL,GT)	HX,RR2	Herculex® 1, Roundup Ready 2 Corn
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)
3122	Agrisure® 3122 (CB,HXX,RW,LL,GT)	HXT,RR2	Herculex® Xtra, Roundup Ready 2 Corn
3220	Agrisure® Viptera® 3220 (Vip,CB,HX,LL,GT)	LL	LibertyLink®
A	Agrisure® Artesian®	None	conventional corn
AM	Optimum® AcreMax® (YGCB,HX,LL,RR2)	OI	Optimum® Intrasect®, YHR (YGCB,HX,LL,RR2)
AMT	Optimum® AcreMax® TRIsect (HX,RW,LL,RR2)	OIX	Optimum® Intrasect® Xtra, YXR (YGCB,HXT,LL,RR2)
AMX	Optimum® AcreMax® Xtra (YGCB,HXT,LL,RR2)	OIXT	Optimum® Intrasect® Xtreme, CYXR (YGCB,HXT,RW,LL,RR2)
AMXT	Optimum® AcreMax® Xtreme (YGCB,HXT,RW,LL,RR2)	RR2	Roundup Ready® 2 Corn
AQ	Optimum® AQUAMax®	RW	Agrisure® Rootworm
B	Refuge Blend	STX	SmartStax® (VT3P,HXT,RR2,LL)
CB	Agrisure® Corn Boreer	VT2P	Genuity® VT Double PRO®
DG	Genuity® DroughtGard®	VT3P	Genuity® VT Triple PRO®
GT	Agrisure® GT	YGCB	YieldGard® Corn Borer
GT/CB/LL	Agrisure® GT/CB/LL		

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

Corn Seed Treatments**

n/a	information not provided	CE	Cruiser Extreme®	M	Maxim XL®
A	Allegiance®	CM	CruiserMaxx® Corn	MQ	Maxim Quattro®
AC	Acceleron® fungicide products	D	Dynasty®	None	untreated
ACHD	Acceleron® fungicide products	Es	Escalate®	P2, P5, P1	Poncho® at 0.25, 0.5 and 1.25 mg ai/seed, respectively
At	Actellic®	In	Intego™ Solo	R	Raxil®
AVC	Avicta® Complete Corn	L	Lorsban®	V	Votivo®
C2, C5, C1	Cruiser® at 0.25, 0.5 and 1.25 mg ai/seed, respectively	Lu	Lumivia™	Vi	Vibrance®

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