

Test by: MNS Seed Testing, LLC New Richland, MN

2019 Corn Grain Top 30 Harvest Report

South Dakota Northeast [SDNE] WATERTOWN, SD
Myron Keltgen, Codrington County, SD 57201

Early-Season Test	91 - 95 Day CRM B2019SDNE03a
Top 30 of 45	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybean / glyphosate, Outlook, Anthem, Metribuzin
SOIL DESCRIPTION:	Poinsett-Buse-Waubay silty clay loam, well drained, non-irrigated
SOIL CONDITION:	Conventional W/O Fall Till, low P, very high K, 7.5 pH, 4.1% OM, 20.0 CEC
PEST MANAGEMENT:	Force, Triple Flex II, Atrazine, Bellum
FERTILITY - Applied N:	160 Spring
Applied N-P-K (units):	160-56-40
SEEDED - RATE - ROW:	May 15 32.5 /A 30" spacing
HARVESTED - STAND:	Nov 25 32.3 /A

TEST COMMENTS:

We moved this plot location in order to hit the May planting window as the original spot remained wet. After planting wet conditions persisted and ponding occurred, damaging the full season test and one rep was lost. The early season test had a few plots that remained wet and contributed to some variable results. At harvest we found good yields in areas that drained well. High grain moistures and wet field conditions delayed harvest. A lot of corn in area fields has yet to be harvested. The data was rejected due to damaged replicates and high variability in yields.

Company/Brand	Product/Brand	Yield T	Moisture %	Grain %	Yield Bu/A	Gross Income \$/Acre	Rank		
WATSON	419	VTGPB	91	208.8	19.9	1	32.4	766	1
HENE	620	NA	95	205.9	22.8	2	31.9	751	2
WATSON	409	VTGPB	95	205.0	22.9	2	32.4	737	4
TOTAL PRO	50 56 2P 2C	VTGPB	95	219.8	21.5	2	32.9	733	3
FEDERAL	480VTGPB	VTGPB	95	219.3	22.1	2	32.9	728	5
HEFTY	W32VTGPB	VTGPB	95	212.8	23.5	1	31.9	728	6
LATHAM	UNH32VTGPB	VTGPB	95	211.1	21.1	1	31.4	714	7
HENE	620BTA	BTX	95	209.9	22.3	1	31.9	708	11
NA BRAND	W32VTGPB	VTGPB	95	211.4	22.1	1	31.9	715	8
NA BRAND	W32VTGPB	VTGPB	95	211.3	22.1	1	32.4	708	12
FEDERAL	480VTGP	VTGPB	95	211.2	22.1	1	31.9	707	10
THUNDER	590 VTGP	VTGPB	95	209.2	22.1	1	31.4	708	9
FEDERAL	480VTGPB	VTGPB	91	208.4	22.2	1	31.9	702	13
HENE	620VTGPB	VTGPB	95	207.7	22.4	1	32.4	699	18
LATHAM	EX 412 30"R	BTX	95	205.5	22.5	2	32.9	699	14
GOLDEN HARVEST	50101 311A	VTGPB	95	208.9	22.2	1	32.9	697	15
PIONEER	PERMANENT 2C	VTGPB	95	205.3	19.9	1	32.9	694	17
DANLON	W32VTGPB 2	VTGPB	94	205.2	19.4	2	32.9	694	16
HENE	620VTGPB	VTGPB	95	204.0	22.5	1	32.9	676	24
TOTAL PRO	50 56 2P 2C	VTGPB	94	202.9	19.9	1	32.9	690	19
LATHAM	UNH32VTGPB	VTGPB	95	202.9	22.9	1	32.4	690	20
FEDERAL	480VTGPB	VTGPB	94	202.7	21.7	1	32.4	676	25
HEFTY	W32VTGPB	VTGPB	95	202.9	22.7	1	32.9	690	21
WATSON	419	VTGP	94	202.7	22.5	1	31.9	677	23
HENE	620VTGP	VTGP	95	201.9	19.9	1	32.4	676	22
HENE	EXP 610	VTGP	94	198.2	22.9	2	32.4	690	27
HEFTY	W32VTGP	VTGP	95	198.0	21.1	1	32.4	693	26
THUNDER	590 VTGP	VTGPB	94	197.2	19.5	1	31.9	698	28
THUNDER	590 VTGP	VTGPB	95	196.1	22.3	1	31.9	691	30
HEFTY	W32VTGP	VTGP	91	195.9	19.5	1	32.4	694	29
Averages				200.3	21.2	2	32.3	670	
LSD (0.10)				ns	1.2	ns			
LSD (0.25)				ns	0.6	ns			
C.V.				10.6					

Mark Tollefson

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Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.2 Drying = \$0.025 Prices: GMO = \$3.50

Report Date: 11/26/2019

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 exceeded the grain moisture limit for this test. **ns** = column values not significantly different

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South Dakota Northeast [SDNE] WATERTOWN, SD
Myron Keltgen, Codrington County, SD 57201

Full-Season Test 96 - 100 Day CRM
B2019SDNE03b

Top 30 of 45 For Gross Income
(Sorted by Yield)
Average of (2) Replications

PREV. CROP/HERB: Soybean / glyphosate, Outlook,
Anthem, Metribuzin

SOIL DESCRIPTION: Poinsett-Buse-Waubay silty clay
loam, well drained, non-irrigated

SOIL CONDITION: Conventional W/O Fall Till, low
P, very high K, 7.5 pH, 4.1% OM,
20.0 CEC

PEST MANAGEMENT: Force, Triple Flex II, Atrazine,
Bellum

FERTILITY - Applied N: 160 Spring

Applied N-P-K (units): 160-56-40

SEEDED - RATE - ROW: May 15 32.5 /A 30" spacing

HARVESTED - STAND: Nov 25 31.8 /A

TEST COMMENTS:

We moved this plot location in order to hit the May planting window as the original spot remained wet. After planting wet conditions persisted and ponding occurred, damaging the full season test and one rep was lost. The early season test had a few plots that remained wet and contributed to some variable results. At harvest we found good yields in areas that drained well. High grain moistures and wet field conditions delayed harvest. A lot of corn in area fields has yet to be harvested. The data was rejected due to damaged replicates and high variability in yields.

Company/Brand	Product/Brand	Seeds / Row	Moisture %	Yield Bu/A	Grain Moisture %	Grain Yield Bu/A	Gross Income \$/A	Rank	
THUNDER	888 VTOP	VTOP	25.8	186.3	25.8	1	31.4	617	1
THUNDER	888 VTOP	VTOP	21.7	186.3	21.7	3	31.4	621	2
LATHAM	LINESTV2PMB	VTOP	23.2	186.8	23.2	1	31.7	761	4
NE BRAND	NE885 3010	3010	25.7	186.3	25.7	3	31.4	762	5
NEBR	NE885V2TOP	VTOP2LB	22.1	186.1	22.1	1	31.4	776	6
NEBR	NE885V2TOP	VTOP	25.7	186.8	25.7	1	31.4	781	8
NESTORA	881	VTOP2LB	25.1	187.1	25.1	1	31.7	736	9
NEBR	NE885V2TOP	VTOP	21.0	186.8	21.0	1	31.4	750	7
LATHAM	LINESTV2PMB	VTOP	21.7	186.7	21.7	1	31.7	763	8
FEDERAL	885V2TOP	VTOP	21.2	186.8	21.2	1	31.2	770	12
FEDERAL	885V2PMB	VTOP2LB	21.8	186.8	21.8	1	31.8	721	10
NEBR	NE885V2TOP	VTOP2LB	22.0	186.8	22.0	3	31.0	801	14
DARTLAND	DS 87888	878	23.8	176.1	23.8	3	31.7	880	16
DARTLAND	DS 87888	878	21.8	186.8	21.8	1	31.7	750	13
GOLDEN HARVEST	GH810 3010	3010	22.0	186.8	22.0	3	31.2	801	15
THUNDER	888 VTOP	VTOP	25.8	186.3	25.8	3	31.7	843	21
NE BRAND	NE885 310-42N	310-42N	25.8	186.3	25.8	7	31.2	888	17
NEBR	NE885	885	24.3	186.4	24.3	1	31.4	848	20
LATHAM	EX 885 VTOP	VTOP	22.8	187.2	22.8	7	27.8	853	18
LATHAM	LINESTV2TOP	VTOP	21.7	186.4	21.7	1	31.7	851	19
NESTORA	881	VTOP	27.0	186.7	27.0	7	31.4	870	26
DARTLAND	DS 87888	878	23.1	186.2	23.1	1	31.4	827	23
FEDERAL	885V2TOP	VTOP	25.8	186.2	25.8	1	31.7	858	27
HEFTY	HEFTV2PMB	VTOP	19.8	187.2	19.8	1	31.4	838	22
DARTLAND	DS 87888	878	21.3	186.8	21.3	3	31.4	820	24
NE BRAND	NE885 3010	3010	22.1	186.8	22.1	1	31.4	871	25
FEDERAL	885V2PMB	VTOP	22.0	186.7	22.0	3	31.7	851	28
HEFTY	HEFTV2PMB	VTOP2LB	22.0	186.3	22.0	1	31.4	868	29
LATHAM	LINESTV2PMB	VTOP2LB	27.8	176.7	27.8	1	31.4	873	31
HEFTY	HEFTV2PMB	VTOP	21.4	173.0	21.4	1	31.7	879	30
Average	885V2TOP	VTOP	22.1	186.3	22.1	1	31.3	770	11

REJECTED



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Averages = **186.3** **22.9** **2** **31.8** **616**
LSD (0.10) = ns 3.4 ns
LSD (0.25) = ns 1.8 ns
C.V. = 25.2

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.2 Drying = \$0.025 Prices: GMO = \$3.50

Report Date: 11/26/2019

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2019 Corn - South Dakota Northeast [SDNE]

Early-Season Test Products (45 Total)

Company/Brand	Product/Brand	Technology	RM
DAHLMAN	R47-26VT2PRIB GC	VT2P,B	94
DAHLMAN	R48-28VT2PRIB GC	VT2P,B	95
DAIRYLAND	DS-3518AMXT	AMXT,B	95
DAIRYLAND	DS-3550AM	AM	95
DAIRYLAND	DS-7294A	3220	94
DEKALB	DKC47-54 RIB CK	STX,B	97
FEDERAL	4185VT2PRIB	VT2P,B	91
FEDERAL	4190VT2PRIB	VT2P,B	91
FEDERAL	4300VT2P	VT2P	93
FEDERAL	4440VT2PRIB	VT2P,B	94
FEDERAL	4580VT2PRIB	VT2P,B	95
GOLDEN HARVEST	G90Y04-3220A-EZR	3220,A,B	92
GOLDEN HARVEST	G91V51-3110A	3110,A	91
GOLDEN HARVEST	G95D32-3220-EZR	3220,B	95
HEFTY	H4132VT2P	VT2P	91
HEFTY	H4222VT2PRIB	VT2P,B	92
HEFTY	H4322VT2PRIB	VT2P,B	93
HEFTY	H4332VT2P	VT2P	93
HEFTY	H4522VT2PRIB	VT2P,B	95
HEINE	6200VT2PRORIB	VT2P,B	95
HEINE	6225STX	STX	95
HEINE	6230	NA	95
HEINE	EXP 6100	VT2P	93
HEINE	EXP 6150	VT2P	94
INTEGRA	4119	VT2P,B	91
INTEGRA	4342	VT2P,B	93
INTEGRA	4509	VT2P,B	95
INTEGRA	CX901094	VT2P	94
LATHAM	EX 4123 3010	3010	91
LATHAM	LH4375VT2PRIB	VT2P,B	93
LATHAM	LH4437VT2PRIB	VT2P,B	94
LATHAM	LH4454VT2PRIB	VT2P,B	94
LATHAM	LH4517VT2PRIB	VT2P,B	95
NK BRAND	NK9175-3110A	3110,A	91
NK BRAND	NK9227-3220A-EZR	3220,A,B	92
PIONEER	P9188AMXT GC	AMXT	91

Company/Brand	Brand/Product	Technology	RM
RENK	RK433VT2P	VT2P	92
RENK	RK561DGV2P	VT2P,DG	95
THUNDER	6094 VT2P	VT2P,B	94
THUNDER	6595 VT2P	VT2P,B	95
THUNDER	6791 VT2P	VT2P,B	91
THUNDER	6992 VT2P	VT2P,B	92
THUNDER	6993 VT2P	VT2P,B	93
TITAN PRO	82-95 2P GC	VT2P,B	95
TITAN PRO	90-94 2P GC	VT2P,B	94

2019 Corn - South Dakota Northeast [SDNE]

Full-Season Test Products (45 Total)

Company/Brand	Product/Brand	Technology	RM
DAIRYLAND	DS-3519AM	AM,B	96
DAIRYLAND	DS-3715AM	AM,B	98
DAIRYLAND	DS-3750AM	AM	97
DAIRYLAND	DS-3810AM	AM	98
DAIRYLAND	DS-4019AM	AM,B	99
DEKALB	DKC47-54 RIB CK	STX,B	97
DEKALB	DKC50-08RIB GC	STX,B	100
DYNA-GRO	D39VC40	VT2P	98
FEDERAL	4680VT2PRIB	VT2P,B	96
FEDERAL	4800VT2P	VT2P,B	98
FEDERAL	4880VT2PRIB	VT2P,B	98
FEDERAL	4990VT2PRIB	VT2P,B	99
FEDERAL	4999VT2PRIB	VT2P,B	99
GOLDEN HARVEST	G00H12-3010	3010	100
GOLDEN HARVEST	G97N86-3220-EZR	3220,B	97
GOLDEN HARVEST	G98L17-3000GT	3000GT	98
HEFTY	H4612VT2PRIB	VT2P,B	96
HEFTY	H4732VT2P	VT2P	97
HEFTY	H4812VT2PRIB	VT2P,B	98
HEFTY	H4922VT2PRIB	VT2P,B	99
HEFTY	H4933VT2PDGRIB	VT2P,DG,B	99
HEINE	6500VT2PRO	VT2P	99
HEINE	7000STX	STX	100
HEINE	EXP 6550	VT2P	99
HEINE	EXP 7010	VT2P	100
INTEGRA	4782	VT2P,B	97
INTEGRA	4888	STX,B	98
INTEGRA	5081	VT2P,DG,B	100
LATHAM	EX 5035 VT2P	VT2P	100
LATHAM	LH4657VT2PRIB	VT2P,B	96
LATHAM	LH4937VT2PRIB	VT2P,B	99
LATHAM	LH5025VT2PDGRIB	VT2P,DG,B	100
LATHAM	LH5377VT2PRIB	VT2P,B	100
NK BRAND	NK9610-3010	3010	96
NK BRAND	NK9659-3120-EZR	3120,B	96
NK BRAND	NK9930-3010	3010	99

Company/Brand	Brand/Product	Technology	RM
PIONEER	P9998AMXT GC	AMXT,AQ,B	99
PROSEED	1996VT2PRIB GC	VT2P,B	96
RENK	RK579DGV2P	VT2P,DG,B	98
RENK	RK587VT2P	VT2P,B	97
RENK	RK593VT2P	VT2P	96
RENK	RK608DGV2P	VT2P,DG,B	100
THUNDER	6098 VT2P	VT2P,B	98
THUNDER	6996 VT2P	VT2P,B	96
THUNDER	6999 VT2P	VT2P,B	99

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.