

Test by: Northland F.I.R.S.T., LLC Moorhead, MN

2020 Corn Grain Top 30 Harvest Report

Red River South North Dakota & Minnesota [RRSO]

WENDELL, MN

Chad Biss, Grant County, MN 56531

Early-Season Test	85 - 90 Day CRM B2020RRSO03a
Top 30 of 44	For Gross Income (Sorted by Yield) Average of (3) Replications
PREV. CROP/HERB:	Soybean / Liberty
SOIL DESCRIPTION:	Formdale-Aazdahl loam, mod. well drained, non-irrigated
SOIL CONDITION:	Conventional W/ Fall Till, very low P, medium K, 7.3 pH, 4.5% OM, 32.7 CEC
PEST MANAGEMENT:	Armezon Pro, Atrazine
FERTILITY - Applied N:	170 Spring
Applied N-P-K (units):	170-60-40
SEDED - RATE - ROW:	May 3 34.5 /A 30" spacing
HARVESTED - STAND:	Nov 4 33.7 /A

TEST COMMENTS:

The plot was planted on an excellently drained patch of ground in early May. High winds that affected other plots down in this area did not cause any green snap in this plot, with virtually no lodging. A pinch test showed strong stalks. Cobs were full to the tip and ranged from 18 to 22 kernels around with excellent weight to them. Due to higher variance, one replicate of the early-season test was removed.

Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
HEFTY	H3442VT2P	VT2P	84	195.8	14.7	0	33.7	636	1
ROB-SEE-CO	RC3601	3011A	86	189.1	14.1	0	32.9	615	2
THUNDER	T6085 VT2P	VT2P,B	85	181.8	15.3	0	33.4	589	3
HEFTY	H3712VT2PRIB	VT2P,B	87	179.5	15.4	0	33.9	582	4
DAIRYLAND	DS-2505Q	QR	85	178.0	13.9	0	34.4	578	5
NK BRAND	NK8519-3220-EZR	3220,B	85	177.5	14.5	0	33.9	577	6
INTEGRA	3718 VT2PRIB	VT2P,B	87	177.1	14.7	0	33.4	576	7
LATHAM	LH 3827 VT2P RIB	VT2P,B	88	176.6	14.9	0	33.9	574	8
HEFTY	H4032VT2PRIB	VT2P,B	90	175.7	16.2	0	33.9	566	10
REA	2B851	VT2P,B	85	175.0	15.9	0	33.4	565	11
DAHLMAN	R45-25VT2PRIB	VT2P,B	90	174.4	15.0	0	32.9	567	9
TITAN PRO	82-90 2P	VT2P,B	90	172.9	15.5	0	33.9	560	13
INTEGRA	4041 VT2P	VT2P	90	172.5	14.5	0	33.9	561	12
REA	3B903	VT2P,B	90	172.5	15.4	0	33.4	559	14
NK BRAND	NK8920-5122-EZR	5122,B	89	171.4	16.1	0	32.9	552	20
THUNDER	T6987 VT2P	VT2P,B	87	171.1	14.2	0	34.4	556	16
INTEGRA	3839 VT2PRIB	VT2P,B	88	171.1	14.5	0	33.9	556	17
DAHLMAN	R45-28VT2PRIB	VT2P,B	90	171.1	15.5	0	33.4	554	18
GOLDEN HARVEST	G89A09-3120-EZR	3120,B	89	170.6	14.7	0	33.9	554	19
PIONEER	P8989AM GC	AM,B	89	169.4	14.9	0	32.9	551	21
LATHAM	LH 3695 VT2P RIB	VT2P,B	86	168.6	15.2	0	33.9	547	22
RENK	RK315VT2P	VT2P	90	168.3	14.3	0	32.9	547	23
THUNDER	T6190 VT2P	VT2P,B	90	168.2	14.2	0	33.4	547	24
ROB-SEE-CO	RC4016	3120,B	90	167.5	14.7	0	34.4	544	25
GOLDEN HARVEST	G85Z56-3220-EZR	3220,B	85	167.4	14.2	0	32.9	544	26
GOLDEN HARVEST	G84J92-3120A-EZR	3120A,B	86	166.8	15.1	0	33.9	542	27
LATHAM	LH 3937 VT2P RIB	VT2P,B	89	166.6	15.2	0	34.4	540	28
DAIRYLAND	DS-3030AM	AM,B	90	165.6	14.7	0	33.9	538	29
HEFTY	H3622VT2PRIB	VT2P,B	86	164.1	14.2	0	34.4	533	30
PROSEED	1787 VT2PRIB	VT2P,B	87	162.2	14.1	0	32.9	527	31
DEKALB	DKC40-78RIB CK	VT2P,B	90	171.2	14.8	0	33.9	556	15

Averages = **167.4** **14.8** **0** **33.7** **545**

LSD (0.10) = 13.0 ns ns

LSD (0.25) = 6.8 ns ns

C.V. = 7.3

Historic yield: 182.3 bu/a, 2 yr(s)

Luke Brendemuhl

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Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$3.25

Test by: Northland F.I.R.S.T., LLC Moorhead, MN

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WENDELL, MN
Chad Biss, Grant County, MN 56531

Full-Season Test	91 - 95 Day CRM B2020RRSO03b
Top 30 of 47	For Gross Income (Sorted by Yield) Average of (4) Replications
PREV. CROP/HERB:	Soybean / Liberty
SOIL DESCRIPTION:	Formdale-Aazdahl loam, mod. well drained, non-irrigated
SOIL CONDITION:	Conventional W/ Fall Till, very low P, medium K, 7.3 pH, 4.5% OM, 32.7 CEC
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FERTILITY - Applied N:	170 Spring
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SEDED - RATE - ROW:	May 3 34.5 /A 30" spacing
HARVESTED - STAND:	Nov 4 33.7 /A

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Company/Brand	Product/Brand	Technol.†	RM	Yield Bu/A ↓	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
RENK	RK568VT2P	VT2P,B	95	200.1	15.5	0	34.0	648	1
HEFTY	H4332VT2PRIB	VT2P,B	93	199.7	16.0	0	33.3	644	2
HEFTY	H4132VT2PRIB	VT2P,B	91	198.0	16.7	0	33.7	635	4
GOLDEN HARVEST	G96R61-5222-EZR	5222,B	96	197.7	17.1	0	33.3	632	6
PROSEED	1794 VT2PRIB	VT2P,B	94	197.2	16.9	0	33.7	632	7
DAIRYLAND	DS-3345AM	AM,B	93	196.5	16.0	0	33.7	633	5
THUNDER	T6992 VT2P	VT2P,B	92	196.1	16.8	0	34.0	629	8
THUNDER	T6791 VT2P	VT2P,B	91	196.1	17.3	0	34.4	626	10
RENK	RK561DGV2PRIB	VT2PDG,B	95	194.1	15.8	0	33.7	627	9
NK BRAND	NK9175-3110A	3110A	91	194.0	16.4	0	33.3	624	11
DAIRYLAND	DS-3366Q	QR,B	93	193.8	16.8	0	34.4	621	12
NK BRAND	NK9535-3220-EZR	3220,B	95	190.9	17.1	0	33.7	610	17
INTEGRA	4119 VT2PRIB	VT2P,B	91	190.3	15.3	0	34.0	617	13
THUNDER	T6094 VT2P	VT2P,B	94	190.2	16.2	0	33.3	612	15
INTEGRA	4509 VT2PRIB	VT2P,B	95	189.9	16.4	0	33.3	611	16
DAIRYLAND	DS-3193AM	AM,B	91	189.9	16.7	0	34.0	609	19
LATHAM	LH 4517 VT2P RIB	VT2P,B	95	189.1	16.8	0	33.7	606	21
LATHAM	LH 4454 VT2P RIB	VT2P,B	94	189.0	15.9	0	34.0	610	18
PIONEER	P9188AMXT GC	AMXT	91	189.0	17.8	0	33.7	601	23
DAHLMAN	R47-26VT2PRIB	VT2P,B	94	188.7	15.2	0	33.7	613	14
PROSEED	2091 VT2PRIB	VT2P,B	91	188.7	16.0	0	33.7	608	20
LATHAM	LH 4375 VT2P RIB	VT2P,B	93	188.1	16.1	0	33.3	606	22
DYNA-GRO	D35VC35	VT2P	95	188.0	17.4	0	33.3	600	25
DAIRYLAND	DS-3162Q	QR,B	91	187.6	17.3	0	33.7	599	27
LATHAM	LH 4242 VT2P RIB	VT2P,B	92	186.5	16.0	0	33.3	601	24
ROB-SEE-CO	RC4343	3220A,B	93	185.7	15.7	0	33.7	600	26
RENK	RK499VT2P	VT2P	94	184.8	15.9	0	34.4	596	28
ENESTVEDT	E612RR	RR2	92	184.8	16.7	0	34.0	593	31
RENK	RK433VT2PRIB	VT2P,B	92	184.2	15.8	0	34.4	595	30
THUNDER	T6993 VT2P	VT2P,B	93	184.1	15.6	0	34.0	596	29
DEKALB	DKC40-78RIB CK	VT2P,B	90	200.0	16.4	0	34.0	643	3
				Averages =	186.7	16.3	0	33.7	601
				LSD (0.10) =	11.1	ns	ns		
				LSD (0.25) =	5.8	ns	ns		
				C.V. =	6.5				
Luke Brendemuhl				Historic yield: 182.3 bu/a, 2 yr(s)					
luke.brendemuhl@firstseedtests.com, (218) 790-4497									

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$3.25

2020 Corn - Red River South North Dakota & Minnesota [RRSO]

Early-Season Test Products (44 Total)

Company/Brand	Product/Brand	Technology	RM	Seed Treat.
DAHLMAN	R45-25VT2PRIB	VT2P,B	90	AC250
DAHLMAN	R45-28VT2PRIB	VT2P,B	90	AC250
DAIRYLAND	DS-2505Q	QR	85	Lum,P1V
DAIRYLAND	DS-2716Q	QR,B	87	Lum,P1V
DAIRYLAND	DS-3030AM	AM,B	90	Lum,P1V
DEKALB	DKC40-78RIB CK	VT2P,B	90	NA
ENESTVEDT	E850DP RIB	VT2P,B	85	AC,P2
GOLDEN HARVEST	G84J92-3120A-EZR	3120A,B	86	AVC,C2,Vi
GOLDEN HARVEST	G85Z56-3220-EZR	3220,B	85	AVC,C2,Vi
GOLDEN HARVEST	G89A09-3120-EZR	3120,B	89	AVC,C2,Vi
HEFTY	H3442VT2P	VT2P	84	HC
HEFTY	H3622VT2PRIB	VT2P,B	86	HC
HEFTY	H3632VT2PRIB	VT2P,B	86	HC
HEFTY	H3712VT2PRIB	VT2P,B	87	HC
HEFTY	H4032VT2PRIB	VT2P,B	90	HC
INTEGRA	3629 VT2PRIB	VT2P,B	86	AC,P5V,St,SU
INTEGRA	3718 VT2PRIB	VT2P,B	87	AC,P2V,St,SU
INTEGRA	3839 VT2PRIB	VT2P,B	88	AC,P2V,St,SU
INTEGRA	4041 VT2P	VT2P	90	AC,P5V,St,SU
LATHAM	LH 3695 VT2P RIB	VT2P,B	86	AC250
LATHAM	LH 3827 VT2P RIB	VT2P,B	88	AC250
LATHAM	LH 3937 VT2P RIB	VT2P,B	89	AC250
NK BRAND	NK8519-3220-EZR	3220,B	85	AVC,C2,Vi
NK BRAND	NK8519-5222-EZR	5222,B	85	AVC,C2,Vi
NK BRAND	NK8618-3120A-EZR	3120A,B	86	AVC,C2,Vi
NK BRAND	NK8920-3120-EZR	3120,B	89	AVC,C2,Vi
NK BRAND	NK8920-5122-EZR	5122,B	89	AVC,C2,Vi
PIONEER	P8989AM GC	AM,B	89	NA
PROSEED	1787 VT2PRIB	VT2P,B	87	NA
PROSEED	1790 VT2PRIB	VT2P,B	90	NA
REA	2B851	VT2P,B	85	AC,P5,B360
REA	2B861	VT2P,B	86	AC,P2,B360
REA	3B903	VT2P,B	90	AC,P5,B360
RENK	RK278VT2P	VT2P,B	87	AC,P2
RENK	RK312VT2PRIB	VT2P,B	90	AC,P2
RENK	RK315VT2P	VT2P	90	AC,P2

Company/Brand	Brand/Product	Technology	RM	Seed Treat.
ROB-SEE-CO	RC3601	3011A	86	CM,C2
ROB-SEE-CO	RC4016	3120,B	90	CM,C2
THUNDER	T6085 VT2P	VT2P,B	85	AC,P2
THUNDER	T6185 VT2P	VT2P,B	85	AC,P2
THUNDER	T6190 VT2P	VT2P,B	90	AC,P2
THUNDER	T6888 VT2P	VT2P,B	88	AC,P2
THUNDER	T6987 VT2P	VT2P,B	87	AC,P2
TITAN PRO	82-90 2P	VT2P,B	90	AC250

2020 Corn - Red River South North Dakota & Minnesota [RRSO]

Full-Season Test Products (47 Total)

Company/Brand	Product/Brand	Technology	RM	Seed Treat.
DAHLMAN	R47-26VT2PRIB	VT2P,B	94	AC250
DAHLMAN	R48-28VT2PRIB	VT2P,B	95	AC250
DAIRYLAND	DS-3162Q	QR,B	91	Lum,P1V
DAIRYLAND	DS-3193AM	AM,B	91	Lum,P1V
DAIRYLAND	DS-3345AM	AM,B	93	Lum,P1V
DAIRYLAND	DS-3366Q	QR,B	93	Lum,P1V
DAIRYLAND	DS-3550AM	AM,B	95	Lum,P5V
DEKALB	DKC40-78RIB CK	VT2P,B	90	NA
DYNA-GRO	D32VC41	VT2P	92	AC,P5V,EDC-B
DYNA-GRO	D35VC35	VT2P	95	AC,P5V,EDC-B
ENESTVEDT	E612RR	RR2	92	CM,MQ,C2
GOLDEN HARVEST	G91V51-3110A	3110A	91	AVC,C2,Vi
GOLDEN HARVEST	G96R61-5222-EZR	5222,B	96	AVC,C2,Vi
HEFTY	H4102VT2PRIB	VT2P,B	91	HC
HEFTY	H4132VT2PRIB	VT2P,B	91	HC
HEFTY	H4322VT2PRIB	VT2P,B	93	HC
HEFTY	H4324SSRIB	STX,B	93	HC
HEFTY	H4332VT2PRIB	VT2P,B	93	HC
INTEGRA	4119 VT2PRIB	VT2P,B	91	AC,P2V,St,SU
INTEGRA	4311 VT2P	VT2P	93	AC,P5V,St,SU
INTEGRA	4509 VT2PRIB	VT2P,B	95	AC,P2V,St,SU
LATHAM	LH 4242 VT2P RIB	VT2P,B	92	AC250
LATHAM	LH 4375 VT2P RIB	VT2P,B	93	AC250
LATHAM	LH 4454 VT2P RIB	VT2P,B	94	AC250
LATHAM	LH 4517 VT2P RIB	VT2P,B	95	AC250
NK BRAND	NK9175-3110A	3110A	91	AVC,C2,Vi
NK BRAND	NK9227-5222A-EZR	5222A,B	92	AVC,C2,Vi
NK BRAND	NK9535-3220-EZR	3220,B	95	AVC,C2,Vi
NK BRAND	NK9653-5222-EZR	5222,B	96	AVC,C5,Vi
PIONEER	P9188AMXT GC	AMXT	91	NA
PIONEER	P9211Q GC	QR,B	92	NA
PROSEED	1794 VT2PRIB	VT2P,B	94	NA
PROSEED	2091 VT2PRIB	VT2P,B	91	NA
RENK	RK433VT2PRIB	VT2P,B	92	AC,P2
RENK	RK499VT2P	VT2P	94	AC,P2
RENK	RK561DGV2PRIB	VT2PDG,B	95	AC,P2

Company/Brand	Brand/Product	Technology	RM	Seed Treat.
RENK	RK568VT2P	VT2P,B	95	AC,P2
ROB-SEE-CO	INNOTECH IC4166	3110A	91	AVC,C2
ROB-SEE-CO	RC4343	3220A,B	93	CM,C2
ROB-SEE-CO	RC4427	3220,B	94	CM,C2
ROB-SEE-CO	RC4535	3110	95	CM,C2
THUNDER	T6094 VT2P	VT2P,B	94	AC,P2
THUNDER	T6595 VT2P	VT2P,B	95	AC,P2
THUNDER	T6791 VT2P	VT2P,B	91	AC,P2
THUNDER	T6992 VT2P	VT2P,B	92	AC,P2
THUNDER	T6993 VT2P	VT2P,B	93	AC,P2
TITAN PRO	82-95 2P	VT2P,B	95	AC250

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*

3011A Agrisure® Artesian® 3011A (CB,RW,LL,GT)
 3110 Agrisure® Viptera® 3110 (Vip, CB,LL,GT)
 3110A Agrisure® Artesian® Viptera® 3110 (Vip, CB,LL,GT)
 3120 Agrisure® 3120 (CB,HX,LL,GT)
 3120A Agrisure® Artesian® 3120 (CB,HX,LL,GT)
 3220 Agrisure® Viptera® 3220 (Vip,CB,HX,LL,GT)
 3220A Agrisure® Artesian® Viptera® 3220
 (Vip,CB,HX,LL,GT)
 5122 Agrisure® Duracade™ 5122
 5222 Agrisure® Duracade™ 5222
 5222A Agrisure® Duracade™ Artesian® 5222
 AM Optimum® AcreMax®
 AMXT Optimum® AcreMax® Xtreme
 B Blend, Refuge in a Bag (RIB) or EZ-Refuge
 QR Qrome™
 RR2 Roundup Ready® 2 Corn
 STX SmartStax®
 VT2P Genuity® VT Double PRO®
 VT2PDG Genuity® VT Double PRO® DroughtGard®

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

Corn Seed Treatments**

NA	Not Available
AC250	Acceleron 250
AC,P2	Acceleron, Poncho 250
AC,P2,B360	Acceleron Poncho 250 with BioRise™ B-360 ST
AC,P2V,St,SU	Acceleron Poncho 250 Votivo, Stamina, StepUp
AC,P5,B360	Acceleron Poncho 500 with BioRise™ B-360 ST
AC,P5V,EDC-B	Acceleron, Basic Poncho 500/Votivo with Enhanced Disease Control
AC,P5V,St,SU	Acceleron Poncho 500/Votivo, Stamina, StepUp
AVC,C2	Avicta Complete 250
AVC,C2,Vi	Avicta Complete 250, Vibrance
AVC,C5,Vi	Avicta Complete 500, Vibrance
CM,C2	CruiserMaxx 250
CM,MQ,C2	CruiserMaxx® Cruiser® 250, Maxim® Quattro
HC	Hefty Complete
Lum,P1V	Lumigen Poncho 1250/Votivo
Lum,P5V	Lumigen Poncho 500/Votivo

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