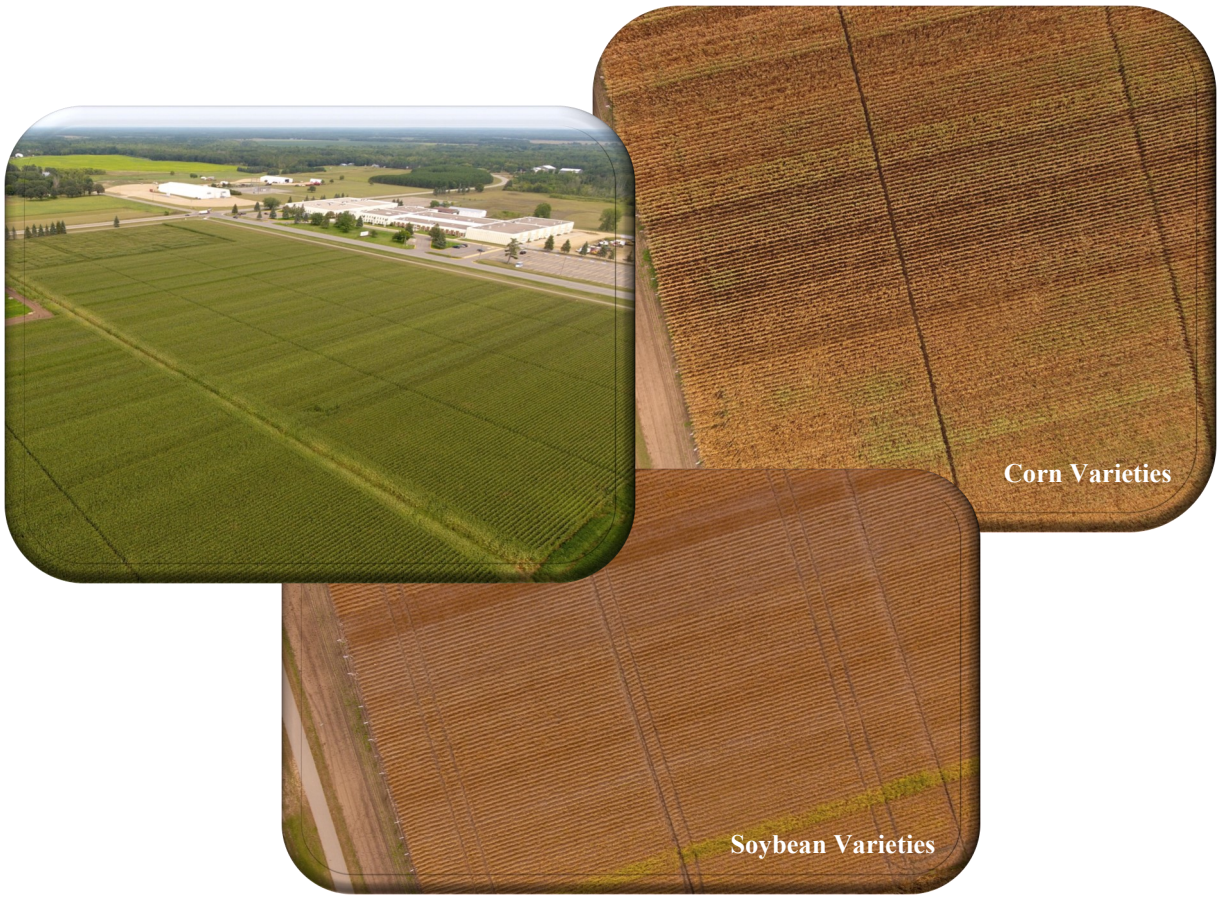
2018 Corn Brand Demonstration Report

Central Lakes College Ag and Energy Center



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*Note: This report is a demonstration trial. Seed companies enter varieties into this trial that have differing maturities. These varieties are then planted into 10 foot by 480 foot strips by order of maturity. To account for field variation, a check is planted before and after every four varieties. The checks on either side of the four varieties is averaged and used to calculate an adjusted yield for each variety. This report includes a listing of the varieties as planted by maturity, a listing of the checks across the trial, and a listing of the varieties in order of yield for each maturity group.

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CORN BRAND DEMONSTRATION REPORT - 2018

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Date Planted: May 10, 2018
Date Harvested: October 16, 2018
Starter Fertilizer: 35-10-35-10
In-Furrow: 3 gal/A Aventine Complete
Herbicide: Status @ 3 oz/A
Sidedress Fertilizer: 164.8 units of N applied
Topdress 60-0-0-10 (x2), Fertigation 28-0-0 & 25-0-0-5

Planted Population: 34,000
Previous Crop: Soybeans
Tillage: Fall rip - Spring mulch finisher
Irrigated: 5.7 inches applied via Large Linear System
Plot Size: 4 - 30 inch rows, 4 rows Sampled
Stand Count Date: October 2, 2018
Notes: Frost - September 29, 2018
Planting order was determined by maturity from earliest to latest. Earlier varieties starting in the south and later maturities to the north. Thus the reversal in the as planted

***** LISTED AS PLANTED *****

Company Name	Brand	Maturity	Stand Count	Test Weight	% Moist.	Yield	Adjusted Yield
Enestvedt Seed Company	E646 Conventional	94	32,000	54.0	22.6	257.15	265.83
Dahlman Seed	R47-24VT2PRIB	94	32,500	52.7	24.1	254.01	262.69
Wolf River Valley Seed	2693	93	34,000	52.5	24.0	251.27	259.95
Integra Seed	4342 VT2 Pro	93	33,500	54.8	25.4	248.45	257.13
Renk	RK433RR	92	34,500	53.3	24.2	256.14	253.80
Enestvedt Seed Company	E612 Conventional	92	34,500	52.7	23.8	248.84	246.51
Dahlman Seed	R46-27VT2PRIB	92	34,000	53.6	24.3	244.14	241.81
Wensman Seed	LG5410VT2RIB	91	35,000	53.3	23.3	259.18	256.84
Integra Seed	4119 VT2 Pro	91	34,500	52.6	23.7	252.93	251.47
Stine Seed	9316-20	91	31,000	52.3	23.1	248.67	247.22
Integra Seed	4122 VT2 Pro	91	32,500	52.9	23.5	238.67	237.22
CHS-Allegiant	9199	91	35,500	52.4	22.2	254.74	253.29
Wensman Seed	LG40C27VT2-8906	90	34,000	53.6	21.7	235.38	238.12
Renk	RK408VT2P	90	34,000	53.7	22.0	242.72	245.45
Partners Brand	PB 6003 VIP3220	90	29,000	52.6	20.8	220.72	223.45
Dahlman Seed	R45-28VT2PRIB	90	32,500	53.0	21.3	242.34	245.07
Thunder Seed	6789VT2P	89	34,000	53.7	20.7	216.29	221.67
Wensman Seed	LG39C19-3120EZ	89	35,000	53.0	21.5	225.58	230.96
Integra Seed	3922VT2	89	35,000	53.8	20.2	231.26	236.64
CHS-Allegiant	8930	89	33,000	53.5	20.3	232.91	238.29
Stine Seed	9212-10	88	31,500	54.8	21.7	226.91	230.88
Nietfeldt	MG6885	88	35,000	52.7	21.7	226.28	230.25
Integra Seed	3839 VT2Pro	88	35,000	52.8	22.0	234.28	238.25
Enestvedt Seed Company	E875RR	88	31,500	53.9	23.1	250.32	254.29
Thunder Seed	6987VT2P	87	32,000	55.3	21.9	240.29	246.81
Wensman Seed	LG37C27VT2RIB	87	33,000	53.2	21.5	230.60	237.12
Renk	RK287VT2P	87	35,000	53.9	23.5	246.01	252.53
Integra Seed	3718 VT2Pro	87	33,500	53.8	23.1	248.55	255.07
Enestvedt Seed Company	E878 DProRIB	87	35,500	54.1	22.4	245.10	252.23
Wensman Seed	LG36C62VT2RIB	86	35,000	55.1	21.2	225.03	232.16
Stine Seed	9202-G	86	33,500	54.2	21.3	209.29	216.42
Partners Brand	PB 5630 3000GT	86	30,500	53.9	19.8	199.50	206.63
Integra Seed	3629 VT2Pro	86	35,500	53.9	21.3	244.73	238.27
Dahlman Seed	R43-24VT2PRIB	86	34,500	53.5	22.6	257.24	250.78
Thunder Seed	6785VT2P	85	32,500	55.7	21.5	222.79	216.34

CORN BRAND DEMONSTRATION REPORT - 2018

Central Lakes College Agriculture and Energy Center

Wolf River Valley Seed	2785	85	33,500	54.9	22.0	221.37	214.92
Wensman Seed	LG5375VT2RIB	85	35,000	54.8	20.8	223.48	211.93
Renk	RK264RR	85	33,000	53.7	21.3	244.73	233.18
Enestvedt Seed Company	E856 Conventional	85	31,500	56.1	22.0	227.15	215.60
Dahlman Seed	NEW 85-86 DY	85	34,500	51.6	21.5	260.89	249.35
CHS-Allegiant	8521	85	35,000	53.6	20.9	247.91	238.49
Wensman Seed	LG5370VT2RIB	84	34,500	54.0	20.4	243.60	234.18
Legend Seeds	LR9983VT2PRIB	83	33,000	50.1	21.0	235.93	226.51
Thunder Seed	4383VT2P	83	28,500	55.8	19.3	209.22	199.81
Wensman Seed	LG21208484-EXP	82	35,000	54.0	19.7	212.80	203.07
Wolf River Valley Seed	2882	82	33,000	55.9	20.2	216.06	206.33
Wensman Seed	LG32C29RR	82	36,000	56.9	19.4	210.29	200.56

Brand Test Weight Average	**53.7**			
Brand Moisture Average		**21.9**		
Brand Yield Average			**236.6**	
Brand Adjusted Yield Average				**236.3**

***** CHECKS LISTED AS PLANTED *****

Company Name	Brand	Maturity	Stand Count	Test Weight	% Moist.	Yield
Check - Wensman	W80891VT2RIB	89	32,000	54.9	17.8	210.62
Check - Wensman	W80891VT2RIB	89	30,000	54.3	17.9	206.88
Check - Wensman	W80891VT2RIB	89	31,500	56.6	17.6	214.62
Check - Wensman	W80891VT2RIB	89	33,500	54.9	17.7	211.74
Check - Wensman	W80891VT2RIB	89	34,500	55.3	17.2	217.27
Check - Wensman	W80891VT2RIB	89	33,000	55.4	17.6	217.03
Check - Wensman	W80891VT2RIB	89	33,500	55.1	19.0	217.57
Check - Wensman	W80891VT2RIB	89	32,500	53.0	18.8	205.54
Check - Wensman	W80891VT2RIB	89	31,500	53.9	18.3	206.09
Check - Wensman	W80891VT2RIB	89	31,000	55.0	17.6	198.75
Check - Wensman	W80891VT2RIB	89	34,500	55.0	18.4	203.90
Check - Wensman	W80891VT2RIB	89	33,500	55.0	17.8	196.84
Check - Wensman	W80891VT2RIB	89	34,000	54.2	17.8	195.41

Check Test Weight Average	**55**		
Check Moisture Average		**18.0**	
Check Yield Average			**207.9**

CORN BRAND DEMONSTRATION REPORT - 2018

Central Lakes College Agriculture and Energy Center

RANKED BY YIELD OF MINNESOTA MATURITY

***** Sorted by Actual Yield, not Adjusted Yield*****

82-85 Day Minnesota Maturity

Company	Brand	Maturity	Final Pop.	Test Weight	Moist.	Yield	Adjusted Yield
Dahlman Seed	NEW 85-86 DY	85	34,500	51.6	21.5	260.89	253.25
CHS-Allegiant	8521	85	35,000	53.6	20.9	247.91	240.26
Renk	RK264RR	85	33,000	53.7	21.3	244.73	237.08
Wensman Seed	LG5370VT2RIB	84	34,500	54.0	20.4	243.60	235.95
Legend Seeds	LR9983VT2PRIB	83	33,000	50.1	21.0	235.93	228.28
Enestvedt Seed Company	E856 Conventional	85	31,500	56.1	22.0	227.15	219.50
Wensman Seed	LG5375VT2RIB	85	35,000	54.8	20.8	223.48	215.83
Thunder Seed	6785VT2P	85	32,500	55.7	21.5	222.79	215.14
Wolf River Valley Seed	2785	85	33,500	54.9	22.0	221.37	213.73
Wolf River Valley Seed	2882	82	33,000	55.9	20.2	216.06	208.41
Wensman Seed	LG21208484-EXP	82	35,000	54.0	19.7	212.80	205.15
Wensman Seed	LG32C29RR	82	36,000	56.9	19.4	210.29	202.64
Thunder Seed	4383VT2P	83	28,500	55.8	19.3	209.22	201.58

85 Day or Less Test Wgt Average	**54.4**			
85 Day or Less Moisture Average		**20.8**		
85 Day or Less Yield Average			**228.9**	
85 Day or Less Adjusted Yield Average				**221.3**

86 - 89 Day Minnesota Maturity

Company	Brand	Maturity	Final Pop.	Test Weight	% Moist.	Yield	Adjusted Yield
Dahlman Seed	R43-24VT2PRIB	86	34,500	53.5	22.6	257.24	259.05
Enestvedt Seed Company	E875RR	88	31,500	53.9	23.1	250.32	252.14
Integra Seed	3718 VT2Pro	87	33,500	53.8	23.1	248.55	250.36
Renk	RK287VT2P	87	35,000	53.9	23.5	246.01	247.82
Enestvedt Seed Company	E878 DProRIB	87	35,500	54.1	22.4	245.10	246.91
Integra Seed	3629 VT2Pro	86	35,500	53.9	21.3	244.73	246.54
Thunder Seed	6987VT2P	87	32,000	55.3	21.9	240.29	242.10
Integra Seed	3839 VT2Pro	88	35,000	52.8	22.0	234.28	236.09
CHS-Allegiant	8930	89	33,000	53.5	20.3	232.91	234.73
Integra Seed	3922VT2	89	35,000	53.8	20.2	231.26	233.07
Wensman Seed	LG37C27VT2RIB	87	33,000	53.2	21.5	230.60	232.41
Stine Seed	9212-10	88	31,500	54.8	21.7	226.91	228.73
Nietfeldt	MG6885	88	35,000	52.7	21.7	226.28	228.09
Wensman Seed	LG39C19-3120EZ	89	35,000	53.0	21.5	225.58	227.40
Wensman Seed	LG36C62VT2RIB	86	35,000	55.1	21.2	225.03	226.85
Thunder Seed	6789VT2P	89	34,000	53.7	20.7	216.29	218.11
Stine Seed	9202-G	86	33,500	54.2	21.3	209.29	211.10
Partners Brand	PB 5630 3000GT	86	30,500	53.9	19.8	199.50	201.31

86-89 Day Test Wgt. Avg.	**53.8**			
86-89 Day Moisture Average		**21.7**		
86-89 Day Yield Average			**232.8**	
86-89 Day Adjusted Yield Average				**234.6**

CORN BRAND DEMONSTRATION REPORT - 2018

Central Lakes College Agriculture and Energy Center

90-94 Day Minnesota Maturity

Company	Brand		Maturity	Final Pop.	Test Weight	% Moist.	Yield	Adjusted Yield
Wensman Seed	LG5410VT2RIB		91	35,000	53.3	23.3	259.18	263.24
Enestvedt Seed Company	E646 Conventional		94	32,000	54.0	22.6	257.15	261.22
Renk	RK433RR		92	34,500	53.3	24.2	256.14	260.20
CHS-Allegiant		9199	91	35,500	52.4	22.2	254.74	258.81
Dahlman Seed	R47-24VT2PRIB		94	32,500	52.7	24.1	254.01	258.08
Integra Seed	4119 VT2 Pro		91	34,500	52.6	23.7	252.93	257.00
Wolf River Valley Seed		2693	93	34,000	52.5	24.0	251.27	255.34
Enestvedt Seed Company	E612 Conventional		92	34,500	52.7	23.8	248.84	252.91
Stine Seed	9316-20		91	31,000	52.3	23.1	248.67	252.74
Integra Seed	4342 VT2 Pro		93	33,500	54.8	25.4	248.45	252.52
Dahlman Seed	R46-27VT2PRIB		92	34,000	53.6	24.3	244.14	248.21
Renk	RK408VT2P		90	34,000	53.7	22.0	242.72	246.79
Dahlman Seed	R45-28VT2PRIB		90	32,500	53.0	21.3	242.34	246.41
Integra Seed	4122 VT2 Pro		91	32,500	52.9	23.5	238.67	242.74
Wensman Seed	LG40C27VT2-8906		90	34,000	53.6	21.7	235.38	239.45
Partners Brand	PB 6003 VIP3220		90	29,000	52.6	20.8	220.72	224.78

90 - 95 Day Test Wgt Average	**53**			
90 - 95 Day Moisture Average		**23.1**		
90 - 95 Day Yield Average			**247.2**	
90 - 95 Day Adjusted Yield Average				**251.3**

NOTE: The adjusted yield has been calculated to compare field production variations using the adjacent check data. Each 4-plot area is adjusted by a formula which compares the check yields on either side to that area of the field, to the overall average of all the check yields in the plot. Individual yields are then adjusted to reflect the differing production levels demonstrated by the varying check yields.