

CORN BRAND DEMONSTRATION REPORT - 2019

Central Lakes College Agriculture and Energy Center

Date Planted: May 7, 2019
Date Harvested: October 25, 2019
Starter Fertilizer: 35-10-45-10
In-Furrow: 3 gal/A Aventine Complete
Sidedress Fertilizer: 164.8 units of N applied
 Topdress 60-0-010 (x2), Fertigation
 28-0-0 & 25-0-0-5
Herbicides: 14 oz Amazon Pro, 1.5
 pt Wheelhouse, 1 qt Atrazine 4L, 4
 oz Detonate, 3 oz Buckhorn total

Planted Population: 34,000
Previous Crop: Soybeans
Tillage: Fall ripped, spring soil finisher 2x
Irrigated: 8.5
Plot Size: 4 - 30 inch rows, 4 rows Sampled
Stand Count Date: October 24, 2019
Notes:
 Planting order was determined by maturity from earliest to
 latest. Earlier varieties starting in the south and later
 maturities to the north.

*** LISTED AS PLANTED ***

Company Name	Brand	Maturity	Harvested Population	Test Weight	% Moist.	Yield	Adjusted Yield
NK Seeds	NK7837-3220	78	29,500	55.0	20.5	220.02	223.46
NK Seeds	NK8005-3110A	80	33,000	54.9	21.0	199.77	203.20
Pioneer	P8352 AM	83	33,500	52.9	21.7	256.04	259.48
Dahlman	R43-29VT2PRIB	85	30,500	52.3	22.8	234.64	238.08
Renk	RK278VT2P	86	32,000	52.3	22.7	240.92	239.48
Integra	3629VT2Pro	86	31,500	53.7	21.1	253.77	252.34
Dahlman	R43-24VT2PRIB	86	34,000	53.5	21.9	249.90	248.47
Renk	RK267VT2P	86	31,500	53.1	22.4	225.73	224.30
Legend Seeds	47J086	86	33,000	52.7	22.0	228.97	225.39
Pioneer	P8736 AM	87	31,000	51.4	21.5	233.02	229.44
Integra	3718VT2Pro	87	33,000	52.3	23.9	233.41	229.82
Renk	RK287VT2P	87	32,000	53.9	22.6	247.58	243.99
Integra	3839VT2Pro	88	32,000	53.9	24.0	245.76	243.05
Renk	RK312VT2P	89	32,000	53.0	23.3	247.40	244.69
NK Seeds	NK8920-3120	89	28,000	51.1	24.4	230.34	227.63
Wolf River Valley Seeds	2090Vip3110	90	32,000	51.9	23.8	232.79	230.08
Dahlman	R45-28VT2PRIB	90	32,000	51.5	23.7	250.56	246.51
Renk	RK433VT2P	92	30,500	52.2	24.4	241.50	237.45
Integra	4119VT2Pro	91	32,000	51.5	23.7	266.06	262.01
Legend Seeds	LR9891VT2	91	31,000	52.0	24.6	244.54	240.49
Enestvedt Seed Compan	E612	92	34,500	51.7	24.3	243.02	241.84
NK Seeds	NK9227-3220A	92	29,500	50.4	24.7	249.06	247.88
Enestvedt Seed Compan	E646	94	34,000	51.6	25.2	249.23	248.04
Dahlman	R47-26VT2PRIB	94	30,000	51.5	25.4	237.07	235.88
Enestvedt Seed Compan	E652	95	33,000	52.2	24.7	236.63	238.54
Wolf River Valley Seeds	2096RR	95	29,000	51.1	28.6	250.33	252.24
Enestvedt Seed Compan	E648	95	31,500	51.2	27.0	234.12	236.03
Integra	4509VT2Pro	95	33,000	50.6	27.2	244.65	246.57
Enestvedt Seed Compan	E658	95	32,500	50.6	27.4	255.60	257.24

Brand Test Weight Average	52.3
Brand Moisture Average	23.8
Brand Yield Average	240.8
Brand Adjusted Yield Average	239.8

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

Company	Brand	Maturity	Harvested Population	Net Weight	Test Weight	% Moist.	Yield
Check	RK408VT2P	90	32000	1900	52.3	24.0	237.88
Check	RK408VT2P	90	29000	1945	55.0	23.3	245.75
Check	RK408VT2P	90	32500	1955	52.8	23.8	247.62
Check	RK408VT2P	90	29500	1985	54.3	23.4	250.06
Check	RK408VT2P	90	30000	1965	52.0	23.0	245.87
Check	RK408VT2P	90	29500	2035	51.7	23.6	252.75
Check	RK408VT2P	90	30500	1980	51.6	25.2	240.13
Check	RK408VT2P	90	28500	2000	51.3	23.7	246.55
Check	RK408VT2P	90	32500	1995	52.1	25.3	240.68

Check Test Wt. Avg.	52.6
Check Moisture Average	23.9
Check Yield Average	245.3

RANKED BY YIELD OF MINNESOTA MATURITY

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

Company	Brand	Maturity	Final Pop.	Test Weight	% Moist.	Yield	Adjusted Yield
Pioneer	P8352 AM	83	33,500	52.9	21.7	256.04	255.97
Integra	3629VT2Pro	86	31,500	53.7	21.1	253.77	253.70
Dahlman	R43-24VT2PRIB	86	34,000	53.5	21.9	249.90	249.83
Renk	RK278VT2P	86	32,000	52.3	22.7	240.92	240.85
Dahlman	R43-29VT2PRIB	85	30,500	52.3	22.8	234.64	234.57
Legend Seeds	47J086	86	33,000	52.7	22.0	228.97	228.90
Renk	RK267VT2P	86	31,500	53.1	22.4	225.73	225.66
NK Seeds	NK7837-3220	78	29,500	55.0	20.5	220.02	219.95
NK Seeds	NK8005-3110A	80	33,000	54.9	21.0	199.77	199.69

85 Day or Less Test Wgt Average	53.4
85 Day or Less Moisture Average	21.8
85 Day or Less Yield Average	234.4
85 Day or Less Adjusted Yield Average	234.3

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87-91 Day Minnesota Maturity

Company	Brand	Maturity	Final Pop.	Test Weight	% Moist.	Yield	Adjusted Yield
Integra	4119VT2Pro	91	32,000	51.5	23.7	266.06	262.25
Dahlman	R45-28VT2PRIB	90	32,000	51.5	23.7	250.56	246.74
Renk	RK287VT2P	87	32,000	53.9	22.6	247.58	243.76
Renk	RK312VT2P	89	32,000	53.0	23.3	247.40	243.58
Integra	3839VT2Pro	88	32,000	53.9	24.0	245.76	241.94
Legend Seeds	LR9891VT2	91	31,000	52.0	24.6	244.54	240.72
Integra	3718VT2Pro	87	33,000	52.3	23.9	233.41	229.59
Pioneer	P8736 AM	87	31,000	51.4	21.5	233.02	229.20
Wolf River Valley Seeds	2090Vip3110	90	32,000	51.9	23.8	232.79	228.97
NK Seeds	NK8920-3120	89	28,000	51.1	24.4	230.34	226.52

86-89 Day Test Wgt. Avg.	52.3
86-89 Day Moisture Average	23.6
86-89 Day Yield Average	243.1
86-89 Day Adjusted Yield Average	239.3

92-95 Day Minnesota Maturity

Company	Brand	Maturity	Final Pop.	Test Weight	% Moist.	Yield	Adjusted Yield
Enestvedt Seed Compan	E658	95	32,500	50.6	27.4	255.60	255.66
Wolf River Valley Seeds	2096RR	95	29,000	51.1	28.6	250.33	250.39
Enestvedt Seed Compan	E646	94	34,000	51.6	25.2	249.23	249.29
NK Seeds	NK9227-3220A	92	29,500	50.4	24.7	249.06	249.12
Integra	4509VT2Pro	95	33,000	50.6	27.2	244.65	244.71
Enestvedt Seed Compan	E612	92	34,500	51.7	24.3	243.02	243.08
Renk	RK433VT2P	92	30,500	52.2	24.4	241.50	241.56
Dahlman	R47-26VT2PRIB	94	30,000	51.5	25.4	237.07	237.13
Enestvedt Seed Compan	E652	95	33,000	52.2	24.7	236.63	236.69
Enestvedt Seed Compan	E648	95	31,500	51.2	27.0	234.12	234.18

90 - 95 Day Test Wgt Average	51.3
90 - 95 Day Moisture Average	25.9
90 - 95 Day Yield Average	244.1
90 - 95 Day Adjusted Yield Average	244.2

NOTE:

The adjusted yield has been calculated to compare field production variations using the adjacent check data. Each 4 row plot areas 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.

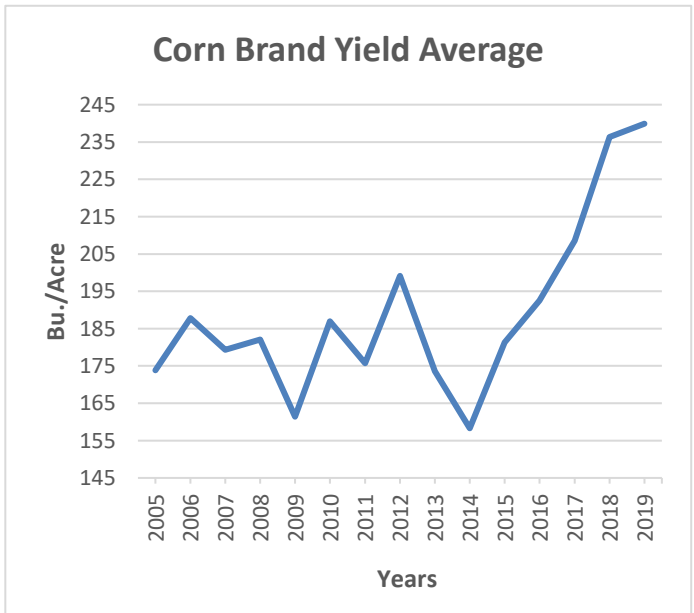
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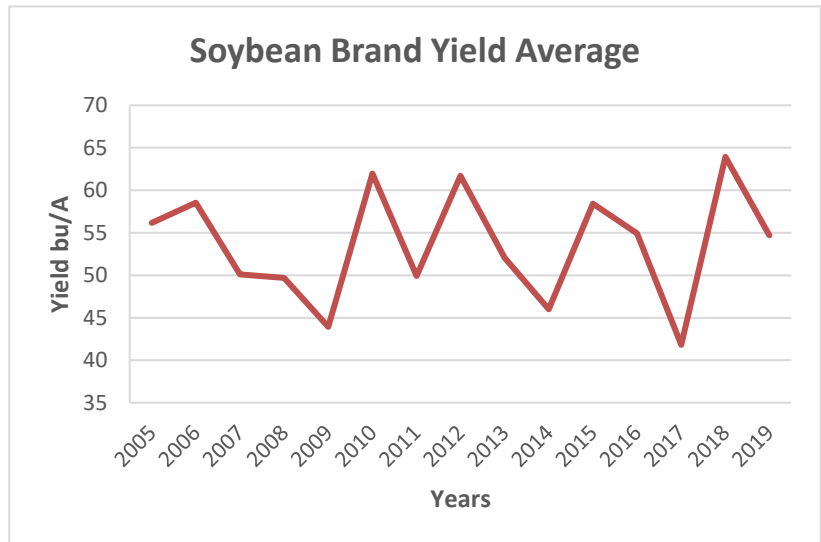


Corn and Soybean Yield Averages over the Years

Historical Corn Averages				
	Test Wt.	% Moisture	Yield	Adjusted Yield
2005	54.00	21.20	166.60	173.80
2006	56.00	19.40	193.90	187.80
2007	55.00	19.40	179.40	179.30
2008	52.00	22.30	182.00	182.10
2009	48.00	30.50	161.50	161.40
2010	56.50	17.80	187.00	187.00
2011	56.00	17.00	175.80	175.70
2012	59.00	15.50	199.00	199.10
2013	54.00	21.20	173.60	173.60
2014	54.00	13.90	158.40	158.30
2015	57.00	18.60	180.90	181.30
2016	55.00	20.20	192.70	192.50
2017	54.10	19.10	209.50	208.60
2018	53.70	21.90	236.60	236.30
2019	52.30	23.80	240.80	239.80



Historical Soybean Averages			
	Test Wt.	% Moisture	Yield
2005	57.26	12.89	56.15
2006	56.57	13.88	58.53
2007	56.75	13.00	50.09
2008	56.91	15.49	49.69
2009	55.78	17.01	43.95
2010	56.60	11.37	61.95
2011	57.80	8.60	49.93
2012	56.68	9.98	61.72
2013	56.85	12.21	52.07
2014	55.95	10.54	46.01
2015	57.14	10.70	58.43
2016	56.98	13.37	54.92
2017	55.81	11.60	41.82
2018	56.78	14.16	63.93
2019	55.00	15.90	54.70



2019 Corn Varieties



Counted: 6/14/19

Company	Brand	Cross	Maturity	Row 2	Row 3	Average
Check				32	34	33
1 NK Seeds	NK7837-3220	RR-VIPTERA	78	31	32	31.5
2 NK Seeds	NK8005-3110A	RR-VIPTERA-ARTESIAN	80	35	36	35.5
3 Pioneer	P8352 AM	RR, BT, LL	83	35	35	35
4 Dahlman	R43-29VT2PRIB	VT2PRIB	85	32	31	31.5
Check				30	33	31.5
5 Renk	RK278VT2P	RR	86	32	34	33
6 Integra	3629VT2Pro	RR	86	33	34	33.5
7 Dahlman	R43-24VT2PRIB	VT2PRIB	86	35	34	34.5
8 Renk	RK267VT2P	VT2P	86	33	33	33
Check				33	33	33
9 Legend Seeds	47J086	VIP 3011	86	35	34	34.5
10 Pioneer	P8736 AM	RR, BT, LL	87	35	35	35
11 Integra	3718VT2Pro	RR	87	35	34	34.5
12 Renk	RK287VT2P	VT2P	87	33	33	33
Check				32	27	29.5
13 Integra	3839VT2Pro	RR	88	33	33	33
14 Renk	RK312VT2P	GTCBLLRWBL	89	33	34	33.5
15 NK Seeds	NK8920-3120	RR-VIPTERA	89	34	35	34.5
16 Wolf River Valley Seeds	2090Vip3110	Gt, LL	90	33	33	33
Check				33	33	33
17 Dahlman	R45-28VT2PRIB	VT2PRIB	90	32	32	32
18 Renk	RK433VT2P	VT2P	92	33	28	30.5
19 Integra	4119VT2Pro	RR	91	33	35	34
20 Legend Seeds	LR9891VT2	VT2	91	33	32	32.5
Check				30	30	30
21 Enestvedt Seed Company	E612	Conv.	92	34	36	35
22 NK Seeds	NK9227-3220A	RR-VIPTERA-ARTESIAN	92	34	33	33.5
23 Enestvedt Seed Company	E646	Conv.	94	35	35	35
24 Dahlman	R47-26VT2PRIB	VT2PRIB	94	30	32	31
Check				33	33	33
25 Enestvedt Seed Company	E652	Conv.	95	33	33	33
26 Wolf River Valley Seeds	2096RR	RR	95	30	31	30.5
27 Enestvedt Seed Company	E648	Conv.	95	33	34	33.5
28 Integra	4509VT2Pro	RR	95	33	34	33.5
Check				31	32	31.5
29 Enestvedt Seed Company	E658	Conv.	95	33	34	33.5
Check				33	33	33

2019 Corn Varieties

Counted: 10/24/2019

Company	Brand	Maturity	Row 2		Row 3		Average	Stand Count	Non-viable	Harvested	
			Total	Harvested	Total	Harvested			Stalks	Stand	
Check			32	31	33	33	32.5	32500	1	32000	
1	NK Seeds	NK7837-3220	78	31	30	31	29	31	31000	3	29500
2	NK Seeds	NK8005-3110A	80	35	30	36	36	35.5	35500	5	33000
3	Pioneer	P8352 AM	83	33	33	35	34	34	34000	1	33500
4	Dahlman	R43-29VT2PRIB	85	32	31	31	30	31.5	31500	2	30500
Check			30	28	33	30	31.5	31500	5	29000	
5	Renk	RK278VT2P	86	32	31	34	33	33	33000	2	32000
6	Integra	3629VT2Pro	86	33	33	32	30	32.5	32500	2	31500
7	Dahlman	R43-24VT2PRIB	86	35	35	33	33	34	34000	0	34000
8	Renk	RK267VT2P	86	32	31	32	32	32	32000	1	31500
Check			32	32	33	33	32.5	32500	0	32500	
9	Legend Seed	47J086	86	35	33	34	33	34.5	34500	3	33000
10	Pioneer	P8736 AM	87	35	30	34	32	34.5	34500	7	31000
11	Integra	3718VT2Pro	87	35	33	34	33	34.5	34500	3	33000
12	Renk	RK287VT2P	87	32	32	33	32	32.5	32500	1	32000
Check			32	32	27	27	29.5	29500	0	29500	
13	Integra	3839VT2Pro	88	32	32	32	32	32	32000	0	32000
14	Renk	RK312VT2P	89	32	31	33	33	32.5	32500	1	32000
15	NK Seeds	NK8920-3120	89	32	27	32	29	32	32000	8	28000
16	Wolf River	2090Vip3110	90	31	31	33	33	32	32000	0	32000
Check			33	31	31	29	32	32000	4	30000	
17	Dahlman	R45-28VT2PRIB	90	32	32	32	32	32	32000	0	32000
18	Renk	RK433VT2P	92	33	33	28	28	30.5	30500	0	30500
19	Integra	4119VT2Pro	91	32	30	34	34	33	33000	2	32000
20	Legend Seed	LR9891VT2	91	33	33	30	29	31.5	31500	1	31000
Check			30	29	30	30	30	30000	1	29500	
21	Enestvedt	E612	92	34	34	35	35	34.5	34500	0	34500
22	NK Seeds	NK9227-3220A	92	32	28	32	31	32	32000	5	29500
23	Enestvedt	E646	94	34	34	34	34	34	34000	0	34000
24	Dahlman	R47-26VT2PRIB	94	30	30	31	30	30.5	30500	1	30000
Check			31	30	31	31	31	31000	1	30500	
25	Enestvedt	E652	95	33	33	33	33	33	33000	0	33000
26	Wolf River	2096RR	95	30	29	30	29	30	30000	2	29000
27	Enestvedt	E648	95	33	33	32	30	32.5	32500	2	31500
28	Integra	4509VT2Pro	95	33	33	33	33	33	33000	0	33000
Check			30	28	29	29	29.5	29500	2	28500	
29	Enestvedt	E658	95	32	31	34	34	33	33000	1	32500
Check			32	32	33	33	32.5	32500	0	32500	