

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.

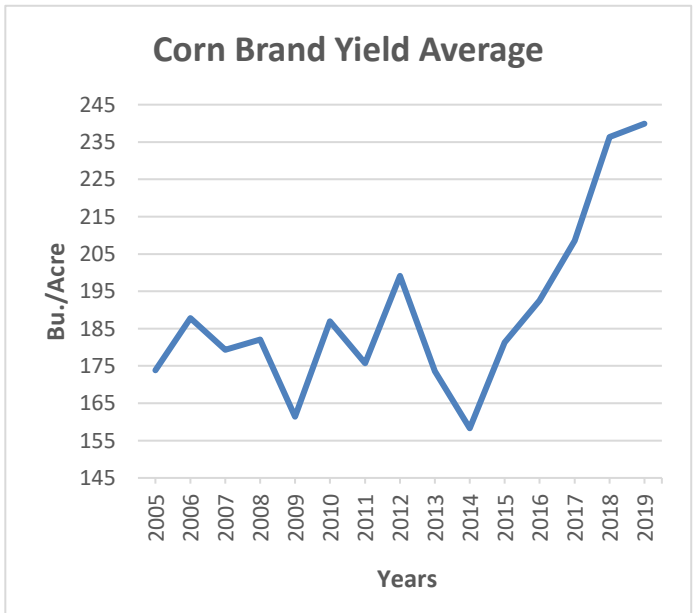
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Corn and Soybean Yield Averages over the Years

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

