2021 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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Date Planted: May 4, 2021
Date Harvested: October 8, 2021
Starter Fertilizer: 30-10-60-10
In-Furrow: Aventine Complete 3 gal/A, Unlock 2 oz./A
Topdress Fertilizer: 60-0-0-10
Fertigation: 25% @ 8 gal/A, 28% @ 8 gal/A
Herbicide: Armazon Pro @ 20oz/A, Wheelhouse @ 2 pt/A, Status @ 3 oz/A Atrazine @ 1 pt/A (applied on 6/2/2021)

Planted Population: 34,000
Previous Crop: Soybeans
Tillage: fall ripped, spring disk
Irrigated: 13.5 inches
Plot Size: 4 - 30 inch rows, 4 rows Sampled
Stand Count Date: October 6,2021
Notes:
Planting order was determined by maturity from earliest to latest. Earlier varieties were planted from the south to later maturities toward the north.

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

Company Name	Brand	Maturity	Harvested Stand	Test Weight	% Moist.	Yield	Adjusted Yield
Niedfelt	44C76	76	34,500	55.0	16.8	172.81	171.58
Syngenta NK Seeds	NK8005-3220A	80	33,500	55.7	18.2	202.96	201.73
Legend Seeds	9181 VIP	81	32,000	55.3	21.3	197.18	195.95
Dahlman Seed	R41-22VT2 PRIB	82	33,000	56.6	18.3	219.22	217.99
Renk Seed	RK 227 RR	82	33,000	57.6	18.3	195.25	198.84
Dekalb	DKC32-12 VT2P/RIB	82	33,500	57.1	17.6	196.93	200.51
Allegiant	8280 VT2P	82	33,000	56.7	19.0	190.97	194.56
Dekalb	DKC33-37 VT2P/RIB	83	31,500	56.6	17.9	202.81	206.40
Allegiant	8311 VT2P	83	33,500	55.4	18.0	201.99	212.22
Beck's Hybrids	3404 V2P	84	33,500	54.1	19.7	208.72	218.95
Renk Seed	RK 256-3120	84	34,000	55.2	20.1	208.96	219.19
Pioneer	P8431 AM	84	31,500	55.4	17.3	199.75	209.97
Niedfelt	44C84	84	29,000	54.9	21.2	189.64	200.27
Dahlman Seed	R43-29VT2 PRIB	85	32,500	55.1	20.8	208.84	219.47
Syngenta NK Seeds	NK8519-3220	85	32,000	54.6	19.1	222.84	233.47
Croplan	2521 VT2P	85	33,000	54.5	18.0	214.27	224.90
Legend Seeds	47J9185 VIP	85	33,500	54.6	21.0	221.30	230.09
Mustang Seeds	2285 VT2P	85	32,500	53.1	20.0	211.41	220.20
Dekalb	DKC36-48 VT2P/RIB	86	32,500	52.1	18.7	219.36	228.15
Enestvedt Seed Compan	E859	86	32,000	53.4	19.8	227.21	236.00
Syngenta NK Seeds	NK8618.3120A	86	NA	53.9	20.3	219.81	225.24
Dekalb	DKC36-86 VT2P/RIB	86	32,000	53.2	20.5	207.74	213.17
Beck's Hybrids	3753 V2P	87	33,000	53.1	21.0	240.32	245.74
Renk Seed	RK 287 VT2P	87	31,000	53.1	20.9	228.69	234.11
Croplan	2790 VT2P	87	34,000	55.4	19.6	229.65	226.72
Dekalb	DKC37-50 VT2P/RIB	87	32,500	53.6	18.7	216.69	213.77
Allegiant	8734 VT2P	87	31,000	55.5	19.7	218.50	215.58
Mustang Seeds	2288 VT2P	88	33,500	53.7	18.9	215.51	212.59
Stine Seed Company	9212-10	89	31,500	53.8	20.3	248.22	244.21
Renk Seed	RK 297 VT2P	89	35,000	53.1	20.0	246.33	242.32
Croplan	2965 VT2P	89	33,000	53.6	20.1	245.38	241.38
Legend Seeds	9290 SSRIB	89	30,000	53.6	19.3	221.51	217.51
Dekalb	DKC39-55 VT2P/RIB	89	33,000	54.5	19.0	232.97	230.73
Dahlman Seed	R45-25VT2 PRIB	90	33,000	54.3	18.4	226.32	224.08
Syngenta NK Seeds	NK9023-3220	90	33,000	53.0	20.1	225.47	223.23
Beck's Hybrids	4034 VR	90	30,500	52.4	21.4	221.10	218.86
Renk Seed	RK 300 RR	90	32,500	53.2	20.8	248.90	241.42
Mustang Seeds	3290 VT2P	90	32,000	54.7	18.2	228.44	220.96
Allegiant	9037 VT2P	90	32,500	54.5	18.7	232.86	225.38

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Renk Seed	RK315VT2P	90	34,500	55.1	18.3	216.46	208.98
Syngenta NK Seeds	NK9175-5222	91	32,500	52.9	21.1	231.33	221.21
Pioneer	P9193Q	91	33,000	54.4	19.6	237.62	227.50
Croplan	3166 VT2P	91	34,500	52.1	21.1	233.82	223.70
Niedfelt	44C91	91	32,500	54.0	21.3	230.05	219.93
Dahlman Seed	R46-27VT2 PRIB	92	32,500	52.6	20.9	237.67	226.86
Enestvedt Seed Compan	E612	92	33,000	52.9	20.7	249.65	238.84
Syngenta NK Seeds	NK9227-3220A	92	31,500	53.0	21.4	251.53	240.72
Dekalb	DKC42-65 VT2P/RIB	92	32,000	52.5	22.2	239.97	229.16
Allegiant	9030 VT2P	92	34,500	52.4	20.3	247.47	249.47
Stine Seed Company	9319-10	93	29,000	53.4	21.4	213.86	215.86
Beck's Hybrids	4339 V2P	93	34,000	53.9	19.9	246.83	248.83
Renk Seed	RK429-3220A	93	34,500	53.6	19.5	229.13	231.12
Dekalb	DKC43-75 VT2P/RIB	93	33,500	54.1	19.1	252.49	260.52
Enestvedt Seed Compan	E646	94	34,500	53.4	20.0	242.12	250.15
Beck's Hybrids	4421 AM	94	33,500	52.4	21.6	245.31	253.34
Enestvedt Seed Compan	E640VT2P RIB	94	33,000	53.5	20.0	248.90	256.93
Dekalb	DKC44-98 VT2P/RIB	94	35,500	54.2	21.2	268.13	263.55
Enestvedt Seed Compan	E648	95	32,500	52.2	19.7	240.27	235.68
Dekalb	DKC45-95 VT2P/RIB	95	33,000	52.1	20.4	265.20	260.61
Enestvedt Seed Compan	E652	95	32,500	53.6	18.8	231.42	226.84
Syngenta NK Seeds	NK9535-3220	95	32,000	54.9	21.5	236.12	232.20
Enestvedt Seed Compan	E658	95	34,000	54.4	19.4	248.17	244.24
Dahlman Seed	R48-21VT2 PRIB	96	32,500	53.1	19.7	249.78	245.86

Brand Test Weight Average	**54.1**			
Brand Moisture Average		**19.8**		
Brand Yield Average			**226.4**	
Brand Adjusted Yield Average				**226.5**

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

Company I	Brand	Maturity	Harvested Population	Net Weight	Test Weight	% Moist.	Yield
Check	RK312VT2P	90	34,500	1810	53.9	19.8	235.26
Check	RK312VT2P	90	34,000	1805	54.1	20.3	231.92
Check	RK312VT2P	90	29,000	1760	53.4	20.2	225.63
Check	RK312VT2P	90	33,000	1760	53.8	22.0	218.64
Check	RK312VT2P	90	31,000	1810	52.1	21.6	224.83
Check	RK312VT2P	90	32,500	1770	52.6	21.0	222.31
Check	RK312VT2P	90	32,000	1885	52.4	22.6	231.56
Check	RK312VT2P	90	30,500	1875	53.5	20.1	239.01
Check	RK312VT2P	90	33,500	1850	53.0	20.4	233.72
Check	RK312VT2P	90	33,500	1880	52.6	20.4	235.48
Check	RK312VT2P	90	32,000	1885	53.4	19.5	244.21
Check	RK312VT2P	90	34,500	1850	53.9	19.7	240.76
Check	RK312VT2P	90	31,500	1960	53.4	20.1	245.59
Check	RK312VT2P	90	35,000	1730	54.1	20.7	215.14
Check	RK312VT2P	90	33,000	1840	54.2	19.9	233.52
Check	RK312VT2P	90	34,000	1900	54.0	19.6	240.38
Check	RK312VT2P	90	32,000	1825	54.9	19.7	232.19

Check Test Weight Average	**53.5**		
Check Moisture Average		**20.4**	
Check Yield Average			**232.4**

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RANKED BY YIELD OF MINNESOTA MATURITY

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

76-85 Day Minnesota Maturity Company	Brand	Maturity	Final Pop.	Test Weight	% Moist.	Yield	Adjusted Yield
Syngenta NK Seeds	NK8519-3220	85	32,000	54.6	19.1	222.84	228.77
Legend Seeds	47J9185 VIP	85	33,500	54.6	21.0	221.30	227.23
Dahlman Seed	R41-22VT2 PRIB	82	33,000	56.6	18.3	219.22	225.15
Croplan	2521 VT2P	85	33,000	54.5	18.0	214.27	220.20
Mustang Seeds	2285 VT2P	85	32,500	53.1	20.0	211.41	217.34
Renk Seed	RK 256-3120	84	34,000	55.2	20.1	208.96	214.89
Dahlman Seed	R43-29VT2 PRIB	85	32,500	55.1	20.8	208.84	214.77
Beck's Hybrids	3404 V2P	84	33,500	54.1	19.7	208.72	214.65
Syngenta NK Seeds	NK8005-3220A	80	33,500	55.7	18.2	202.96	208.89
Dekalb	DKC33-37 VT2P/RIB	83	31,500	56.6	17.9	202.81	208.74
Allegiant	8311 VT2P	83	33,500	55.4	18.0	201.99	207.92
Pioneer	P8431 AM	84	31,500	55.4	17.3	199.75	205.68
Legend Seeds	9181 VIP	81	32,000	55.3	21.3	197.18	203.11
Dekalb	DKC32-12 VT2P/RIB	82	33,500	57.1	17.6	196.93	202.85
Renk Seed	RK 227 RR	82	33,000	57.6	18.3	195.25	201.18
Allegiant	8280 VT2P	82	33,000	56.7	19.0	190.97	196.90
Niedfelt	44C84	84	29,000	54.9	21.2	189.64	195.57
Niedfelt	44C76	76	34,500	55.0	16.8	172.81	178.74

85 Day or Less Test Wgt Average	**55.4**			
85 Day or Less Moisture Average		**19.0**		
85 Day or Less Yield Average			**203.7**	
85 Day or Less Adjusted Yield Average				**209.6**

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RANKED BY YIELD OF MINNESOTA MATURITY

86-90 Day Minnesota Maturity

Company	Brand	Maturity	Final Pop.	Test Weight	% Moist.	Yield	Adjusted Yield
Renk Seed	RK 300 RR	90	32,500	53.2	20.8	248.90	248.25
Stine Seed Company	9212-10	89	31,500	53.8	20.3	248.22	247.56
Renk Seed	RK 297 VT2P	89	35,000	53.1	20.0	246.33	245.67
Croplan	2965 VT2P	89	33,000	53.6	20.1	245.38	244.73
Beck's Hybrids	3753 V2P	87	33,000	53.1	21.0	240.32	239.66
Dekalb	DKC39-55 VT2P/RIB	89	33,000	54.5	19.0	232.97	232.32
Allegiant	9037 VT2P	90	32,500	54.5	18.7	232.86	232.21
Croplan	2790 VT2P	87	34,000	55.4	19.6	229.65	228.99
Renk Seed	RK 287 VT2P	87	31,000	53.1	20.9	228.69	228.03
Mustang Seeds	3290 VT2P	90	32,000	54.7	18.2	228.44	227.78
Enestvedt Seed Company	E859	86	32,000	53.4	19.8	227.21	226.55
Dahlman Seed	R45-25VT2 PRIB	90	33,000	54.3	18.4	226.32	225.66
Syngenta NK Seeds	NK9023-3220	90	33,000	53.0	20.1	225.47	224.81
Legend Seeds	9290 SSRIB	89	30,000	53.6	19.3	221.51	220.86
Beck's Hybrids	4034 VR	90	30,500	52.4	21.4	221.10	220.44
Syngenta NK Seeds	NK8618.3120A	86	NA	53.9	20.3	219.81	219.16
Dekalb	DKC36-48 VT2P/RIB	86	32,500	52.1	18.7	219.36	218.70
Allegiant	8734 VT2P	87	31,000	55.5	19.7	218.50	217.84
Dekalb	DKC37-50 VT2P/RIB	87	32,500	53.6	18.7	216.69	216.04
Renk Seed	RK315VT2P	90	34,500	55.1	18.3	216.46	215.80
Mustang Seeds	2288 VT2P	88	33,500	53.7	18.9	215.51	214.86
Dekalb	DKC36-86 VT2P/RIB	86	32,000	53.2	20.5	207.74	207.09

86-90 Day Test Wgt. Avg.	**53.8**			
86-90 Day Moisture Average		**19.7**		
86-90 Day Yield Average			**228.1**	
86-90 Day Adjusted Yield Average				**227.4**

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RANKED BY YIELD OF MINNESOTA MATURITY

91-96 Day Minnesota Maturity

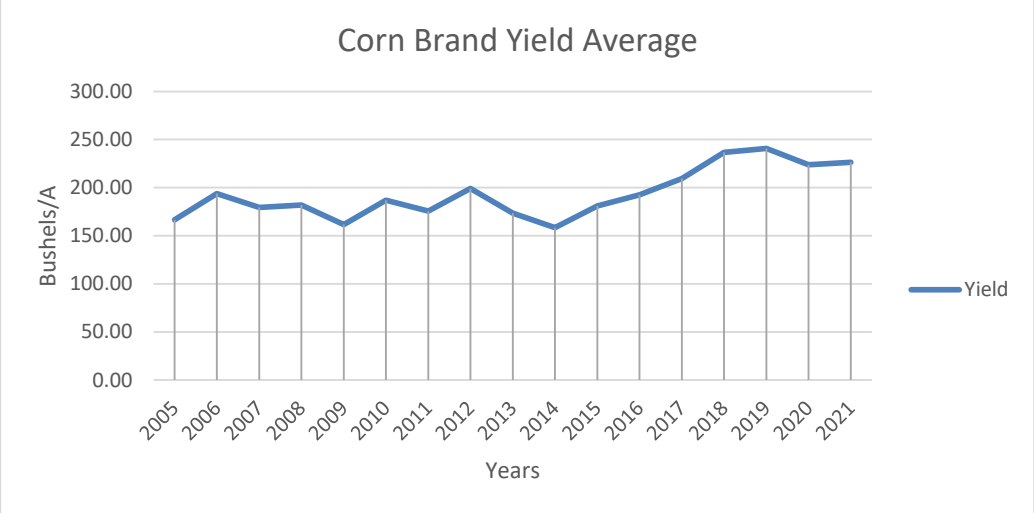
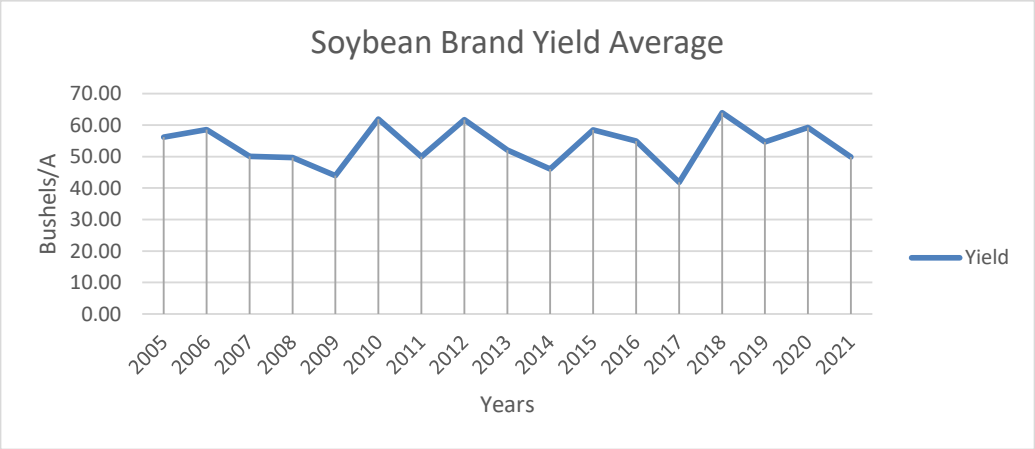
Company	Brand	Maturity	Final Pop.	Test Weight	% Moist.	Yield	Adjusted Yield
Dekalb	DKC44-98 VT2P/RIB	94	35,500	54.2	21.2	268.13	264.53
Dekalb	DKC45-95 VT2P/RIB	95	33,000	52.1	20.4	265.20	261.59
Dekalb	DKC43-75 VT2P/RIB	93	33,500	54.1	19.1	252.49	248.88
Syngenta NK Seeds	NK9227-3220A	92	31,500	53.0	21.4	251.53	247.93
Dahlman Seed	R48-21VT2 PRIB	96	32,500	53.1	19.7	249.78	246.17
Enestvedt Seed Compan	E612	92	33,000	52.9	20.7	249.65	246.04
Enestvedt Seed Compan	E640VT2P RIB	94	33,000	53.5	20.0	248.90	245.29
Enestvedt Seed Compan	E658	95	34,000	54.4	19.4	248.17	244.56
Allegiant	9030 VT2P	92	34,500	52.4	20.3	247.47	243.87
Beck's Hybrids	4339 V2P	93	34,000	53.9	19.9	246.83	243.22
Beck's Hybrids	4421 AM	94	33,500	52.4	21.6	245.31	241.70
Enestvedt Seed Compan	E646	94	34,500	53.4	20.0	242.12	238.51
Enestvedt Seed Compan	E648	95	32,500	52.2	19.7	240.27	236.66
Dekalb	DKC42-65 VT2P/RIB	92	32,000	52.5	22.2	239.97	236.36
Dahlman Seed	R46-27VT2 PRIB	92	32,500	52.6	20.9	237.67	234.07
Pioneer	P9193Q	91	33,000	54.4	19.6	237.62	234.01
Syngenta NK Seeds	NK9535-3220	95	32,000	54.9	21.5	236.12	232.52
Croplan	3166 VT2P	91	34,500	52.1	21.1	233.82	230.21
Enestvedt Seed Compan	E652	95	32,500	53.6	18.8	231.42	227.82
Syngenta NK Seeds	NK9175-5222	91	32,500	52.9	21.1	231.33	227.73
Niedfelt	44C91	91	32,500	54.0	21.3	230.05	226.44
Renk Seed	RK429-3220A	93	34,500	53.6	19.5	229.13	225.52
Stine Seed Company	9319-10	93	29,000	53.4	21.4	213.86	210.25

90 - 95 Day Test Wgt Average	**53.3**			
90 - 95 Day Moisture Average		**20.5**		
90 - 95 Day Yield Average			**242.5**	
90 - 95 Day Adjusted Yield Average				**238.9**

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.

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
2020	55.90	17.40	223.90	223.10
2021	54.10	19.80	226.40	226.50



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
2020	57.79	10.87	59.24
2021	53.90	11.80	49.90