

## 2017 Nebraska Dry Edible Bean Variety Trials

Gary Stone, Extension Educator  
Robert Hawley, Extension Technician  
Jim Schild, Extension Educator

The 2017 dry bean variety trials were planted at two locations this past year. A Great Northern, Kidney, and Pinto trial was planted at the Mitchell Ag Lab. All market classes were planted at the Scottsbluff Ag Lab.

The Mitchell Pinto, Kidney and Great Northern trials were planted with a Hege cone planter on May 30. The Scottsbluff trial was planted on June 2. Seeding rates of 85,000 seeds per acre were used for all market classes except the kidneys, which were planted at the rate of 100,000 seeds per acre.

The herbicides Sonalan and Eptam were incorporated prior to planting. Treatments were replicated 4 times. Fertilizer was applied according to soil test recommendations for a total N rate of 125 lbs. N/A. Row width was 22 inches. Plot size was 4 rows wide by 25 feet long.

Stands were good at all sites. The Scottsbluff site was furrow irrigated and the Mitchell site was sprinkler irrigated. Fields were irrigated every 7 to 9 days from late June to late August. The Scottsbluff site was hailed on June 28, copper was sprayed on June 29. The Mitchell site had light hail and wind damage on July 20. The site was treated with copper and priaxor on July 21.

The Scottsbluff site was undercut on Sept. 21. The center two rows of each plot were harvested with a Wintersteiger plot combine with a finger pickup attachment on September 22 for the Kidney, Variety and CDBN trials and Sept. 30 for the Great Northern and Pinto trial. The Mitchell Pinto, Kidney, Great Northern site was undercut on Sept. 8 and harvested Sept. 21.

*Yield- lbs per acre corrected to 14% moisture*

*DTM – Days to Maturity*

*Test WT – lbs/bu*

*Plant Type – 1A Determinate upright, 2b indeterminate upright, 3a indeterminate prostrate short vine, 3b indeterminate prostrate long vine.*

## Great Northern Scottsbluff

Variety#	Variety	Plant Type	DTM	Test wt.	Moist.	Yield LBS/A
42	PV 13151	3a	89.0	60.1	14.6	4525
57	NE1-16-16	2b	92.0	60.2	11.7	4320
53	NE1-16-33	3a/3b	96.3	59.4	15.6	4320
35	Aries	2b	88.5	60.8	14.9	4278
33	Orion	3a	91.0	61.4	12.4	4266
38	PV 8162	3b	106.0	60.7	13.2	4181
45	PV 14172	2b	92.5	60.6	13.5	4152
40	PV 13172	2b	94.8	60.7	13.5	4124
47	PV 14164	2b	89.0	61.3	12.8	4085
52	NE1-16-26	3b	90.3	58.8	13.8	4025
34	Taurus	3a	108.0	61.5	13.6	3930
43	PV 12134	2b	94.5	60.2	14.5	3882
36	Hydra	3b	92.0	61.0	14.5	3867
44	PV 14168	3a	98.3	61.4	14.9	3821
49	MARQUIS	3b	93.0	62.2	12.9	3766
56	NE1-16-10	3a	89.0	61.9	12.9	3765
41	PV 13150	3a	94.8	61.5	15.1	3737
46	PV 14165	3b	98.5	60.1	14.1	3728
54	NE1-16-32	3a/3b	97.3	60.9	13.3	3661
37	Draco	3a	92.5	60.8	13.2	3625
55	NE1-15-5	2b/3a	89.0	62.0	13.5	3574
39	PV 8165	2b	89.3	60.2	12.3	3454
50	BERYL R	3b	88.5	61.7	13.1	3393
51	IVORY	3b	87.3	60.7	13.7	2909
<b>Mean</b>			<b>93.3</b>	<b>60.9</b>	<b>13.6</b>	<b>3877</b>
<b>CV%</b>			<b>5.27</b>	<b>0.89</b>	<b>2.72</b>	<b>8.43</b>
<b>LSD 5%</b>			<b>6.93</b>	<b>0.76</b>	<b>0.52</b>	<b>461</b>

## Great Northern Mitchell

Variety#	Variety	Plant Type	DTM	Test wt.	Moist.	Yield LBS/A
42	PV 13151	3a/3b	91.5	60.7	11.9	4819
34	Taurus	3a	99.5	61.9	12.0	4495
36	Hydra	3b	96.3	61.3	12.0	4483
49	MARQUIS	3b	97.5	61.6	12.0	4411
45	PV 14172	2b	94.5	60.9	11.3	4327
38	PV 8162	3a/3b	100.0	60.6	12.3	4320
40	PV 13172	2b/3a	95.3	60.3	11.6	4309
53	NE1-16-33	3b	97.0	60.7	12.1	4277
37	Draco	2b/3a	96.0	60.7	11.7	4246
52	NE1-16-26	3b	97.5	59.6	12.3	4206
33	Orion	3b	94.5	60.9	11.4	4187
57	NE1-16-16	2b	92.8	60.5	10.9	4175
46	PV 14165	3a	97.0	60.5	12.0	4127
35	Aries	2b	91.8	61.7	11.6	4094
56	NE1-16-10	3b	93.3	61.7	11.7	4026
47	PV 14164	2b	92.3	61.3	11.4	3925
43	PV 12134	2b	97.0	59.5	11.3	3910
44	PV 14168	3a	97.8	62.4	12.0	3901
41	PV 13150	3a/3b	98.0	62.4	12.2	3879
39	PV 8165	2b/3a	91.0	60.4	11.6	3796
50	BERYL R	3b	93.0	61.8	11.4	3748
51	IVORY	3b	89.3	60.8	11.5	3709
54	NE1-16-32	3a/3b	98.8	60.8	12.2	3684
55	NE1-15-5	3a	90.5	62.1	11.9	3506
<b>Mean</b>			<b>95.1</b>	<b>61.0</b>	<b>11.7</b>	<b>4063</b>
<b>CV%</b>			<b>2.92</b>	<b>1.00</b>	<b>2.66</b>	<b>9.5</b>
<b>LSD 5%</b>			<b>3.9128</b>	<b>0.86</b>	<b>0.44</b>	<b>544.7</b>

## Pinto SB

Variety#	Variety	Plant Type	DTM	Test wt.	Moist.	Yield LBS/A
18	PV 16-17056	2B/3A	92.3	60.1	13.1	4596
1	SV6139GR	2B	90.5	60.5	13.0	4423
5	Monterrey	2B	91.0	62.3	13.1	4350
10	Cowboy (11278)	2B	88.0	61.5	13.0	4279
9	Radiant (12324)	2B	88.3	59.1	16.0	4258
8	Vibrant (11258)	2B	89.0	59.6	16.1	4223
32	NE2-16-4	3B	96.0	57.5	13.5	4196
24	GTS 907	2B/3A	89.0	59.0	14.0	4164
13	PV 16-17013	2B	91.8	63.1	13.8	4157
2	WINDBREAKER	2B	92.3	58.3	12.1	4139
31	NE2--16-3	3B	97.5	57.4	14.2	4139
21	MONTROSE	3B	88.0	60.6	11.8	4138
7	Torreon	2B	89.0	62.6	12.2	4126
27	NE2-16-24	3A/3B	89.0	57.7	12.2	4124
25	GTS 904	3A/3B	95.3	59.3	13.8	4121
28	NE2-16-41	3B	99.0	60.5	13.1	4082
15	PV 16-17011	2B	89.5	63.1	12.0	4080
16	PV 16-17057	2B	89.0	60.3	12.3	4049
30	NE2-16-11	3A	89.0	58.6	12.9	4046
4	Sinaloa	2B	89.0	60.9	13.8	4045
6	Santa Cruz	2B	90.8	61.6	13.4	3995
12	PV 16-17045	2B	93.0	61.3	12.8	3973
22	CROISSANT	3B	94.5	61.1	13.0	3940
23	CENTENNIAL	3A	96.0	61.7	13.4	3928
11	PV 11303	2B/3A	94.3	61.8	13.5	3918
3	La Paz	2B	90.3	62.3	13.0	3914
14	PV 16-17009	2B/3A	88.8	63.1	11.9	3898
17	PV 16-17059	2B	92.0	60.5	13.4	3885
26	PONCHO	3A	87.0	60.8	12.5	3785
20	LONG'S PEAK	2B/3A	93.0	59.4	13.0	3775
29	NE2-16-33	3B	93.0	58.2	12.8	3728
		<b>Mean</b>	<b>91.8</b>	<b>60.4</b>	<b>13.4</b>	<b>4016</b>
		<b>CV%</b>	<b>2.80</b>	<b>1.06</b>	<b>4.45</b>	<b>9.3</b>
		<b>LSD 5%</b>	<b>3.61</b>	<b>0.90</b>	<b>0.83</b>	<b>523.9</b>

## Pinto Mitchell

Variety #	Variety	Plant Type	DTM	Test wt.	Moist.	Yield LBS/A
26	PONCHO	3b	89.0	60.9	10.9	4738
10	Cowboy (11278)	2b	89.8	60.8	11.1	4645
3	La Paz	2b/3a	96.0	62.0	11.5	4557
30	NE2-16-11	3b	94.8	58.5	11.1	4556
25	GTS 904	3b	96.5	59.6	11.6	4553
16	PV 16-17057	2b	93.5	59.9	11.1	4523
9	Radiant (12324)	2b	93.0	60.3	10.7	4500
1	SV6139GR	2b	93.0	61.7	10.8	4490
18	PV 16-17056	3a	97.0	59.7	11.1	4469
21	MONTROSE	3b	94.8	60.5	11.1	4460
5	Monterrey	2b/3a	95.0	61.5	11.3	4408
32	NE2-16-4	3b	100.3	57.5	12.1	4381
27	NE2-16-24	3b	93.3	57.4	11.2	4368
8	Vibrant (11258)	2b/3a	93.8	61.1	10.8	4336
4	Sinaloa	2b	94.8	61.3	11.4	4302
15	PV 16-17011	2b/3a	95.5	62.7	11.3	4290
12	PV 16-17045	2b/3a	94.3	61.3	11.2	4283
24	GTS 907	3a	94.8	58.9	11.1	4249
2	WINDBREAKER	3a/3b	94.0	57.8	10.7	4237
14	PV 16-17009	3a	94.0	62.1	11.3	4231
11	PV 11303	3a	97.5	61.5	11.3	4228
22	CROISSANT	3b	97.3	60.5	11.1	4213
6	Santa Cruz	2b	98.0	60.9	11.3	4099
31	NE2--16-3	3b	96.5	58.0	11.7	4081
13	PV 16-17013	2b	93.3	63.5	11.3	4075
7	Torreon	2b	92.0	61.9	11.1	4012
17	PV 16-17059	2b	96.0	59.5	11.1	3886
29	NE2-16-33	3b	101.0	58.3	11.8	3869
23	CENTENNIAL	2b	98.3	60.6	11.7	3859
28	NE2-16-41	3b	99.8	59.3	11.8	3520
20	LONG'S PEAK	3a	96.8	59.0	11.6	3468
<b>Mean</b>			<b>95.4</b>	<b>60.3</b>	<b>11.3</b>	<b>4218</b>
<b>CV%</b>			<b>2.52</b>	<b>0.84</b>	<b>2.01</b>	<b>8.14</b>
<b>LSD 5%</b>			<b>3.37</b>	<b>0.71</b>	<b>0.32</b>	<b>482.2</b>

## Kidney Scottsbluff

Variety#	Variety	Plant Type	DTM	Test wt.	Moist.	Yield LBS/A
85	Red Zone	LRK	99.5	57.6	10.6	3835
99	NE10-14-12	LRK	99.5	58.6	10.7	3750
86	Ronnie's Red	LRK	98.8	57.6	10.7	3638
100	Medley (09424)	DRK	100.8	58.7	11.2	3628
82	Big Red	LRK	94.5	58.3	10.5	3562
110	PV 15978	DRK	101.8	59.1	11.2	3552
103	PV 9431	DRK	98.5	59.1	10.6	3468
101	Chaparral (07323)	DRK	97.0	58.1	10.7	3457
92	PV 15907	LRK	100.0	56.6	10.6	3352
111	Montcalm	DRK	99.3	57.5	10.3	3326
113	GTS 104	DRK	100.5	58.4	10.5	3317
94	PV 15916	LRK	94.5	58.6	10.4	3306
90	PV 7302	LRK	98.8	56.5	10.2	3297
105	PV 11479	DRK	96.5	56.8	10.3	3265
84	Red Dog	LRK	99.0	58.1	10.4	3248
106	PV 151011	DRK	96.3	59.8	10.5	3224
95	PV 15926	LRK	98.0	56.5	10.6	3207
87	PV 6269	LRK	97.0	57.2	10.2	3140
102	Epic (09430)	DRK	97.8	58.2	10.5	3103
83	Red Flag	LRK	99.3	58.2	10.4	2990
108	PV 151021	DRK	96.8	59.4	10.7	2967
109	PV 15979	DRK	98.8	56.9	10.4	2961
88	PV 9378	LRK	91.3	59.0	10.4	2942
107	PV 15981	DRK	97.0	54.0	10.4	2929
112	Redhawk	DRK	94.3	57.2	10.5	2887
104	PV 9426	DRK	100.5	57.7	10.5	2885
96	Pink Panther	LRK	95.3	58.4	10.6	2694
89	PV 9357	LRK	91.5	57.6	10.3	2687
93	PV 15923	LRK	91.5	58.4	10.5	2377
97	CELRK	LRK	90.5	59.1	10.5	2366
91	PV 9363	LRK	88.0	57.4	10.3	2256
98	NE10-12-19	LRK	93.0	58.9	10.5	2037
		<b>Mean</b>	<b>96.7</b>	<b>57.9</b>	<b>10.5</b>	<b>3114</b>
		<b>CV%</b>	<b>2.44</b>	<b>1.05</b>	<b>1.28</b>	<b>6.69</b>
		<b>LSD 5%</b>	<b>3.32</b>	<b>0.86</b>	<b>0.19</b>	<b>292.6</b>

## Kidney Mitchell

Variety#	Variety	Plant Type	DTM	Test wt.	Moist.	Yield LBS/A
103	PV 9431	DRK	98.8	59.0	11.1	3929
99	NE10-14-12	LRK	98.5	58.6	10.9	3782
86	Ronnie's Red	LRK	99.5	58.0	10.9	3731
85	Red Zone	LRK	98.5	57.7	10.8	3707
113	GTS 104	DRK	99.5	58.9	11.0	3656
100	Medley (09424)	DRK	100.8	58.5	12.1	3645
105	PV 11479	DRK	97.5	56.2	10.5	3581
101	Chaparral (07323)	DRK	100.0	57.5	11.4	3563
95	PV 15926	LRK	98.3	56.2	11.1	3531
92	PV 15907	LRK	100.3	55.5	11.3	3472
82	Big Red	LRK	92.8	57.9	10.7	3437
111	Montcalm	DRK	97.3	57.2	10.8	3398
102	Epic (09430)	DRK	98.3	57.2	10.8	3371
94	PV 15916	LRK	96.3	58.0	10.7	3368
104	PV 9426	DRK	99.5	57.5	11.0	3337
87	PV 6269	LRK	96.0	57.1	10.6	3335
84	Red Dog	LRK	97.0	57.4	10.7	3253
109	PV 15979	DRK	96.5	57.3	10.8	3224
110	PV 15978	DRK	99.3	59.5	11.3	3207
90	PV 7302	LRK	98.5	54.4	11.0	3178
83	Red Flag	LRK	98.3	56.9	10.5	3176
106	PV 151011	DRK	96.3	59.4	10.9	3129
88	PV 9378	LRK	93.5	58.2	10.7	3110
96	Pink Panther	LRK	96.3	57.3	10.5	3067
89	PV 9357	LRK	90.5	57.2	10.8	2936
108	PV 151021	DRK	97.5	58.3	10.9	2916
112	Redhawk	DRK	93.0	57.0	10.6	2894
107	PV 15981	DRK	97.5	54.0	10.2	2680
93	PV 15923	LRK	92.5	56.9	10.6	2525
91	PV 9363	LRK	91.3	56.7	10.4	2510
97	CELRK	LRK	90.5	58.0	10.8	2419
98	NE10-12-19	LRK	95.0	57.9	11.1	2379
		<b>Mean</b>	<b>96.7</b>	<b>57.4</b>	<b>10.8</b>	<b>3233</b>
		<b>CV%</b>	<b>2.33</b>	<b>1.83</b>	<b>3.43</b>	<b>8.14</b>
		<b>LSD 5%</b>	<b>3.16</b>	<b>1.47</b>	<b>0.52</b>	<b>370</b>

## Other Classes Scottsbluff

Variety #	Variety	Market	Plant Type	DTM	Test wt.	Moist	Yield LBS/A	
60	Black Bear (12576)	BL	3A	100.3	62.6	11.0	4299	
72	HMS Medalist	NA	3A	100.8	62.6	11.5	4262	
78	Ruby	SR	3A	100.3	62.2	11.2	4197	
74	Merlin	NA	2B	100.8	62.8	11.2	4064	
63	PV 13503	BL	3B	94.8	61.9	10.5	4062	
61	Black Tails (13489)	BL	2B	94.8	62.8	10.9	4039	
77	Viper	SR	2B	99.3	62.6	11.4	4036	
73	Vigilant	NA	2B	98.3	62.7	11.6	3973	
75	Blizzard (08072)	NA	2B	100.5	62.7	11.5	3909	
62	PV 13505	BL	2B	98.5	61.6	10.7	3904	
59	Black Cat	BL	2B	97.5	61.8	10.5	3861	
80	NE13-16-3	SR	3A	89.3	62.1	10.9	3781	
64	B0040613	BL	2B	99.5	62.1	10.6	3779	
76	PV 6063	NA	3B	101.3	62.2	11.5	3704	
67	B8006282	BL	2B	94.8	62.5	10.5	3697	
68	GTS 1103	BL	2B	101.5	62.8	11.3	3544	
58	Loreto	BL	3A	97.5	61.8	11.2	3504	
70	NE14-14-241	BL	3A	94.0	60.4	10.8	3338	
71	NE14-16-1	BL	2B	100.0	59.9	10.8	3331	
79	PV 11511	SR	3A	101.5	60.3	12.2	3278	
65	B1048280	BL	2B	93.5	62.3	9.9	3277	
81	NE13-16-6	SR	2B	101.5	61.4	11.5	3249	
66	B1048276	BL	2B	94.3	62.4	10.2	3229	
69	SHANIA	BL	3A	101.3	61.6	10.8	3222	
115	ROZA	PINK	3B	101.5	60.7	11.1	2338	
114	Black Eye Pea	BEP	2B	101.8	58.9	11.2	1442	
				<b>Mean</b>	<b>98.4</b>	<b>61.8</b>	<b>11.0</b>	<b>3589</b>
				<b>CV%</b>	<b>1.88</b>	<b>0.75</b>	<b>1.92</b>	<b>6.29</b>
				<b>LSD 5%</b>	<b>2.60</b>	<b>0.65</b>	<b>0.30</b>	<b>317.9</b>