

2014 Nebraska Dry Edible Bean Variety Trials,

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The 2014 dry bean variety trials were planted at two locations this past year. A Great Northern, Kidney, and Pinto was planted at the Mitchell Ag Lab. All market classes and the Cooperative Dry Bean Nursery trial were planted at the Scottsbluff Ag Lab.

The Mitchell Pinto, Kidney and Great Northern trials were planted with a Hege cone planter on June 3. 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. Row width was 22 inches. Plot size was 4 rows wide by 25 feet long. Stands were good at all sites. The Scottsbluff sites were 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 undercut on Sept. 12 and harvested the following week. The Mitchell Pinto, Kidney, Great Northern were undercut on September 19 and the center two rows of each plot were harvested with a Wintersteiger plot combine with a finger pickup attachment on September 25 and 26.

Yield- lbs per acre corrected to 14% moisture, DTF- Days to Flower, 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 Trial Mitchell

Variety Number	Variety Name	Yield lbs/A	Days to Flower	Days to Maturity	% Moist.	Test Weight	Plant Type
5	PV 07111	3506	45.5	89.5	11.2	61.9	3b
20	NE 1-13-14	3483	47.8	92.0	10.8	60.1	3a
2	GEMINI	3228	44.5	83.0	11.1	62.1	3a/3b
12	PV 11114	3222	48.5	96.0	10.9	58.6	3a/3b
11	PV 08159	3215	46.0	88.0	11.2	62.6	3a
22	NE 1-13-12	3206	48.5	91.3	11.0	60.1	2b/3a
17	MARQUIS	3204	47.5	92.0	11.2	62.3	3b
3	PV 03138 (Taurus)	3107	48.8	98.3	11.6	62.6	3b
18	IVORY	3102	46.8	81.0	10.8	60.3	3b
8	PV 08165	3081	48.0	91.8	11.4	59.6	3b
6	PV 06107	3022	48.3	94.5	11.3	60.8	3a
13	PV 11115	3021	47.0	90.3	10.9	61.0	3b
19	G 6039057	3007	47.0	90.5	10.8	59.7	3a
16	BERYL R	2992	46.5	90.3	11.0	62.0	3b
102	COYNE	2988	47.8	90.0	11.2	62.1	3a
23	NE 1-13-18	2934	46.8	91.0	10.9	62.7	3a
15	PV 11117	2923	47.5	90.5	10.9	62.7	3a
4	Aries (905106)	2887	47.3	90.8	11.2	61.2	3a
10	PV 08166	2854	47.0	92.3	11.4	60.9	3a/3b
1	ORION	2852	47.5	93.5	11.3	61.1	3b
9	PV 08148	2803	47.5	91.3	11.2	62.8	3a/3b
7	PV 08162	2796	46.5	93.5	11.1	60.9	3a
21	NE 13-4	2736	46.5	90.8	11.0	62.9	2b
14	PV 11116	2559	47.8	97.0	11.3	61.8	3a/3b
Mean		3030	47.2	91.2	11.1	61.4	
LSD 5%		294	1.7	3.3	0.3	0.6	
% CV		6.9	2.5	2.5	2.2	0.7	

Pinto Trial Scottsbluff

Variety Number	Variety Name	Yield lbs/A	Days to Flower	Days to Maturity	% Moist.	Test Weight	Plant Type
36	PONCHO	4123	42.5	85.0	12.4	60.8	3b
44	ND 307	4051	44.5	92.3	12.5	58.1	3a
49	NE 2 -13-5	4045	44.5	92.3	13.1	56.1	3a
25	GALEENA (99195MR)	4005	45.0	92.5	12.7	60.0	3b
26	SINALOA (06203)	3933	45.3	88.3	13.1	60.7	2b
27	MONTERREY (06185)	3905	43.5	92.0	13.4	60.0	3a/3b
30	PV 06206	3833	44.8	83.8	12.3	60.0	2b
28	SANTA CRUZ (06189)	3826	44.0	91.5	12.8	59.7	2b
48	NE 2-13-3	3807	43.8	92.3	12.9	57.0	3a/3b
47	NE 2-13-2	3782	44.0	85.0	12.1	58.6	3a/3b
29	PV 08257	3757	43.5	84.8	11.9	60.2	2b/3a
43	Medicine Hat	3753	45.3	82.3	11.5	59.3	2b/3a
24	LAPAZ	3702	44.3	90.0	13.1	59.9	3a/3b
39	MONTROSE	3701	44.0	82.8	11.8	59.9	3b
31	PV 11278	3538	44.8	86.8	12.8	59.3	2b
42	GTS-907	3530	44.8	86.3	12.5	59.0	3a
46	SANTA FE	3496	45.3	90.5	12.6	58.6	3a
41	GTS-904	3494	45.5	92.8	13.0	58.2	3a/3b
35	WINDBREAKER	3490	44.0	86.5	11.9	57.2	3a
45	STAMPEDE	3467	44.5	87.5	12.3	58.1	2b
37	BUCKSKIN	3378	43.0	83.0	11.6	59.3	3b
38	CROISSANT	3067	45.3	92.3	14.9	58.3	3a
40	LONG'S PEAK	2946	45.0	91.3	15.0	57.9	2b
50	NE 2-13-17	2497	42.5	93.0	14.5	57.3	3a/3b
Mean		3632	44.2	88.1	12.7	59	
LSD 5%		416	1.6	2.8	1.5	1	
% CV		8.1	2.5	2.2	8.3	1.2	

Pinto Trial Mitchell

Variety Number	Variety Name	Yield lbs/A	Days to Flower	Days to Maturity	% Moist.	Test Weight	Plant Type
26	SINALOA (06203)	3425	47.3	87.5	11.3	50.1	2b
31	PV 11278	3388	47.3	89.0	11.4	52.3	2b
48	NE 2-13-3	3367	47.0	94.3	11.3	55.3	3a/3b
49	NE 2 -13-5	3352	45.8	92.3	11.2	50.2	3a
36	PONCHO	3281	45.3	90.8	11.2	55.9	3b
44	ND 307	3272	45.8	95.3	11.3	52.2	3a
47	NE 2-13-2	3243	46.5	89.3	11.1	55.0	3a
39	MONTROSE	3217	46.8	86.0	10.9	57.1	3b
24	LAPAZ	3207	48.0	94.3	11.5	54.7	2b/3a
35	WINDBREAKER	3203	47.0	89.8	10.8	54.7	3a
43	Medicine Hat	3172	46.5	90.5	10.9	54.5	2b/3a
28	SANTA CRUZ (06189)	3172	47.5	91.8	11.3	53.9	2b
27	MONTERREY (06185)	3154	47.0	92.3	11.7	57.6	3a/3b
41	GTS-904	3013	47.3	90.8	11.2	56.3	3a/3b
45	STAMPEDE	2984	45.5	89.5	11.2	54.7	2b
30	PV 06206	2983	47.8	87.5	11.3	54.9	2b
42	GTS-907	2918	46.0	87.3	11.3	51.3	2b/3a
46	SANTA FE	2883	47.0	90.8	11.3	55.8	3a
37	BUCKSKIN	2789	45.5	84.0	10.7	60.3	3b
29	PV 08257	2693	45.3	87.5	11.1	56.5	2b/3a
25	GALEENA (99195MR)	2564	48.5	97.3	11.4	54.4	3b
38	CROISSANT	2527	46.0	93.0	11.2	56.1	3a
50	NE 2-13-17	2452	47.5	97.3	12.6	55.8	3a/3b
40	LONG'S PEAK	2442	47.3	92.8	11.3	54.5	2b
Mean		3042	46.7	90.6	11.2	54.5	
LSD 5%		370	1.5	3.4	0.5	6	
% CV		8.6	2.3	2.7	2.9	7.9	

Kidney Trial Scottsbluff

Variety Number	Variety Name		Yield lbs/A	Days to Flower	Days to Maturity	% Moist.	Test Weight	Plant Type
96	PV 09431	DRK	3419	41.8	94.0	11.9	58.3	1A
91	IG-INF	LRK	3410	42.0	95.3	13.9	57.1	1A
95	PV 07323	DRK	3179	42.3	92.8	12.3	57.3	1A
94	PV 0924	DRK	3172	42.0	94.8	14.9	57.3	1A
78	PV 09356	LRK	3063	42.0	93.0	12.2	56.5	1A
97	PV 09430	DRK	2979	41.5	91.5	11.9	58.5	1A
82	PV 09360	LRK	2921	42.3	92.5	11.6	57.9	1A
75	PV 09351	LRK	2919	42.3	88.0	11.9	57.0	1A
81	PV 07302	LRK	2875	42.0	94.2	12.7	55.2	1A
101	GTS-104	DRK	2875	42.0	94.3	11.7	57.9	1A
76	PV 09353	LRK	2865	42.3	93.3	12.0	57.3	1A
84	PV 09377	LRK	2838	42.0	93.0	11.6	56.0	1A
79	PV 09378	LRK	2775	41.5	84.0	11.5	57.3	1A
98	PV 09426	DRK	2765	42.0	94.3	12.9	57.8	1A
88	PINK PANTHER	LRK	2758	41.8	90.5	11.4	56.6	1A
74	PV 06269	LRK	2717	42.0	91.5	12.0	56.5	1A
85	PV 09384	LRK	2676	41.8	91.5	11.7	57.8	1A
99	Montcalm	DRK	2663	41.5	93.0	11.8	56.5	1A
87	PV 09373	LRK	2657	42.3	92.3	12.0	57.7	1A
80	PV 09357	LRK	2655	41.3	84.8	11.3	56.7	1A
93	NE 13-13-23	LRK	2437	42.5	90.5	11.8	57.3	1A
77	PV 09354	LRK	2333	42.3	91.5	11.4	56.7	1A
86	PV 09376	LRK	2258	41.8	93.0	12.3	56.0	1A
83	PV 09363	LRK	2233	42.0	84.0	11.1	56.5	1A
100	Redhawk	DRK	1960	41.5	87.3	11.5	53.3	1A
90	SACRAMENTO	LRK	1954	41.3	84.3	11.1	57.2	1A
89	CLOUSEAU	LRK	1916	41.5	88.7	12.1	55.7	1A
92	NE 17-13-219	LRK	1775	42.0	86.5	11.5	56.4	1A
Mean			2680	41.9	90.9	12	56.9	
LSD 5%			289	0.8	3	1.2	1.9	
% CV			7.9	1.4	2.4	7.3	2.3	

Kidney Trial Mitchell

Variety Number	Variety Name		Yield lbs/A	Days to Flower	Days to Maturity	% Moist.	Test Weight	Plant Type
91	IG-INF	LRK	2946	42.8	97.0	11.0	59.2	1a
96	PV 09431	DRK	2857	43.0	98.0	11.2	58.2	1a
79	PV 09378	LRK	2791	42.5	86.0	11.2	58.5	1a
95	PV 07323	DRK	2728	43.3	97.8	11.2	57.7	1a
75	PV 09351	LRK	2713	42.3	89.0	11.5	57.7	1a
82	PV 09360	LRK	2625	45.5	97.8	11.5	57.4	1a
101	GTS-104	DRK	2595	46.3	97.5	11.0	58.8	1a
74	PV 06269	LRK	2541	42.3	92.5	11.0	57.0	1a
94	PV 0924	DRK	2516	43.8	98.0	11.6	58.6	1a
99	Montcalm	DRK	2499	42.0	97.3	10.7	57.5	1a
80	PV 09357	LRK	2487	42.0	86.8	11.4	56.6	1a
97	PV 09430	DRK	2485	41.0	95.5	11.1	58.1	1a
78	PV 09356	LRK	2457	44.8	97.5	11.1	56.7	1a
93	NE 13-13-23	LRK	2414	42.8	92.3	11.3	58.1	1a
83	PV 09363	LRK	2361	42.0	85.0	11.1	56.3	1a
98	PV 09426	DRK	2304	44.0	97.5	10.7	58.4	1a
88	PINK PANTHER	LRK	2286	43.5	94.3	11.0	56.7	1a
76	PV 09353	LRK	2259	44.3	97.3	10.5	57.6	1a
81	PV 07302	LRK	2255	43.5	96.8	11.4	56.0	1a
84	PV 09377	LRK	1952	43.3	94.0	10.9	55.9	1a
92	NE 17-13-219	LRK	1938	43.0	90.3	11.0	56.7	1a
100	Redhawk	DRK	1892	42.8	85.5	11.2	56.3	1a
77	PV 09354	LRK	1846	44.8	93.0	10.9	56.7	1a
89	CLOUSEAU	LRK	1822	42.5	91.3	10.8	57.3	1a
86	PV 09376	LRK	1776	43.0	93.0	10.4	56.4	1a
87	PV 09373	LRK	1673	45.0	93.5	10.9	57.5	1a
90	SACRAMENTO	LRK	1618	42.3	84.5	11.3	57.5	1a
85	PV 09384	LRK	1566	44.8	95.0	10.6	57.5	1a
Mean			2293	43.3	93.3	11.1	57.4	
LSD 5%			422	1.9	4	0.5	0.7	
% CV			13.1	3.1	3.1	3.4	0.9	

Other Market Classes Scottsbluff

Variety Number	Variety Name	Market Class	Yield lbs/A	Days to Flower	Days to Maturity	% Moist.	Test Weight
68	PV 09303	SR	4220	65.0	95.8	13.8	61.7
69	PV 09304	SR	4157	64.5	95.0	12.9	61.4
53	PV 04352	BL	4045	64.8	96.5	13.9	63.0
59	VIGILANT (02084)	NA	3950	63.5	96.3	12.8	62.9
63	PV 08072	NA	3932	65.0	98.0	13.3	62.9
51	LORETO	BL	3871	64.5	96.3	12.7	62.9
65	ENSIGN	NA	3824	65.0	92.5	12.6	62.2
62	PV 08070	NA	3737	63.5	97.8	13.5	63.4
64	PV 06063	NA	3721	64.5	97.5	13.2	62.0
72	NE 13-13-23	SR	3711	61.5	89.3	12.6	60.9
61	PV 07073	NA	3668	64.8	97.0	12.6	62.6
60	MERLIN (03019)	NA	3648	65.0	99.0	13.4	62.8
66	N 8118340	NA	3597	64.3	95.8	13.0	62.5
70	PV 11511	SR	3582	64.5	95.3	14.1	60.5
52	PV 06252	BL	3515	64.5	95.5	13.5	61.4
56	NE 18-13-262	BL	3510	65.8	96.8	13.5	61.4
58	HMS MEDALIST	NA	3500	64.8	98.3	12.9	62.5
67	N 5023584	NA	3464	64.0	98.8	13.0	62.5
57	NE 14-13-22	BL	3443	64.0	96.0	13.2	59.7
71	NE 17-13-219	SR	3338	64.3	93.5	12.9	62.5
54	SHANIA	BL	3247	66.0	99.5	14.8	61.2
73	FLOYD	PINK	3166	61.0	85.8	12.2	60.9
55	B 8039279	BL	3081	65.0	97.3	13.6	62.5
Mean			3648	64.3	95.8	13.2	62
LSD 5%			340	1.3	2.4	0.7	0.7
% CV			6.6	1.5	1.7	3.8	0.8