

2013 Nebraska Dry Edible Bean Variety Trials,

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The 2013 dry bean variety trials were planted at two locations this past year. A Great Northern, Kidney, Pinto and the Cooperative Dry Bean Nursery 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 June 3 and 4. The Scottsbluff trial was planted on June 6. 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 hailed on Sunday, September 22. Seed loss at the top of the field was estimated at 20 bags/acre and at the bottom of the field, 8 bags/acre. A decision was made to not harvest the plots.

The Mitchell Pinto, Kidney, Great Northern and Cooperative Dry Bean trials were undercut on September 16 and the center two rows of each plot were harvested with a Wintersteiger plot combine with a finger pickup attachment on September 17 and 18.

MC Yield- lbs per acre corrected to 14% moisture, DTF- Days to Flower, DTM – Days to Maturity, Test WT – lbs/bu, Plt Type – 1A Determinate upright, 2b indeterminate upright, 3a indeterminate prostrate short vine, 3b indeterminate prostrate long vine.

<b>Great Northern Trial Mitchell 2013</b>							
<b>Variety</b>	<b>Var #</b>	<b>MC Yield</b>	<b>Moisture</b>	<b>Test Wt</b>	<b>DTF</b>	<b>DTM</b>	<b>Plt Type</b>
GN 6039057	32	3058	12.1	58.1	40	88	2b
PV 08159	43	2933	12.6	60.7	40	87	3a
Matterhorn	44	2900	12.0	57.4	41	87	2b
GN I NE 1	50	2846	11.7	58.9	42	87	2b
GN IV NE 4	53	2711	12.5	58.9	41	92	3a-b
Taurus (PV 03138)	35	2699	13.1	60.9	41	93	3b
Coyne	49	2690	12.8	60.3	41	87	3a
PV 08162	39	2655	12.6	59.7	41	93	2b
GN II NE 2	51	2619	12.7	60.8	40	89	3a
Gemini	34	2588	12.9	59.7	40	87	3a-3b
ORION	33	2549	12.0	60.4	41	89	3a
Ivory	48	2542	12.6	58.6	40	88	3b
PV 06107	38	2527	11.9	59.8	40	87	2b
Marquis	46	2523	12.6	60.8	41	88	3b
PV 08165	40	2506	12.8	59.2	42	90	2b
Prairie	47	2497	12.3	59.1	40	88	3b
PV 08148	41	2445	13.0	59.5	41	87	3b
PV 07111	37	2408	13.1	59.4	40	89	3b
Beryl R	45	2361	12.2	60.1	40	87	3b
GN III NE 3	52	2360	12.1	56.1	41	88	2b
Aries (05106)	36	2268	12.7	59.6	40	87	2b-3a
PV 08166	42	2185	12.6	60.0	41	88	2b
	<b>Mean</b>	<b>2585</b>	<b>12.5</b>	<b>59.4</b>	<b>40.5</b>	<b>88.4</b>	
	<b>LSD 5%</b>	<b>490</b>	<b>0.6</b>	<b>0.8</b>	<b>1.1</b>	<b>2.0</b>	
	<b>% CV</b>	<b>13.4</b>	<b>3.4</b>	<b>1.0</b>	<b>1.9</b>	<b>1.6</b>	

<b>Pinto Trial Mitchell 2013</b>							
<b>Variety</b>	<b>Var #</b>	<b>MC Yield</b>	<b>Moisture</b>	<b>Test Wt</b>	<b>DTF</b>	<b>DTM</b>	<b>Pit Type</b>
PT IV NE 8	30	3190	13.3	57.2	40	93	3b
PT II NE 6	28	3024	12.6	57.0	41	89	3a
Montrose	4	2981	12.1	59.7	40	88	3b
ND 307	26	2974	12.3	57.8	40	92	2b-3a
Quincy	31	2931	13.0	57.9	40	87	3b
BAJA	7	2915	12.4	59.1	40	88	3a
PV 06206	15	2913	12.6	61.1	41	88	2b
PV 99217	8	2881	12.0	59.8	41	87	3a
GTS 907	23	2877	12.1	57.1	41	87	2b-3a
Monterrey (06185)	12	2876	12.8	61.1	41	91	2b
SINALOA (06203)	11	2874	12.9	60.0	41	90	2b
PT I NE 5	27	2865	12.4	57.9	40	90	3a
Windbreaker	20	2843	12.3	56.4	41	87	2b
PV 08257	14	2819	12.8	58.6	40	87	2b
Poncho	16	2794	13.3	58.2	40	87	3b
Santa Cruz (06189)	13	2715	12.7	60.0	41	88	2b
GTS 904	22	2653	12.6	56.1	41	92	3a
LA PAZ	5	2651	12.8	61.2	41	88	2b
SONORA MR	6	2636	12.6	58.1	41	89	2b
Buckskin	21	2593	11.4	58.2	40	87	3b
PV 05199	10	2511	12.7	56.8	41	89	2b
Croissant	2	2485	12.1	58.8	41	87	3a
Othello	17	2417	11.9	59.5	40	87	3b
GALEENA (99195MR)	9	2411	12.4	57.8	41	93	3b
Lariat	25	2375	12.9	59.2	41	91	2b-3a
BILL Z	1	2334	12.3	57.8	40	88	3b
Mariah	18	2323	12.2	60.4	42	88	2b
Grand Mesa	19	2097	11.7	59.1	41	90	3b
PT III NE 7	29	2057	12.3	57.2	40	89	3a
LONGS PEAK	3	2031	12.6	59.6	40	88	2b
	<b>Mean</b>	<b>2683</b>	<b>12.4</b>	<b>58.6</b>	<b>40.5</b>	<b>88.7</b>	
	<b>LSD 5%</b>	<b>370</b>	<b>0.7</b>	<b>1.1</b>	<b>1.2</b>	<b>2.3</b>	
	<b>%CV</b>	<b>9.8</b>	<b>4.1</b>	<b>1.4</b>	<b>2.1</b>	<b>1.8</b>	

<b>LRK Trial Mitchell 2013</b>							
<b>Variety</b>	<b>Var #</b>	<b>MC Yield</b>	<b>Moisture</b>	<b>Test Wt</b>	<b>DTF</b>	<b>DTM</b>	<b>Plt Type</b>
PV 09363	92	3094	11.3	54.3	39	88	1a
PV 09351	83	2987	12.0	54.3	39	90	1a
PV 09350	82	2982	11.4	54.5	39	89	1a
Pink Panther	97	2917	11.5	53.5	40	91	1a
PV 09353	84	2851	11.8	54.5	41	99	1a
PV 09378	88	2849	12.0	54.5	39	90	1a
PV 06269	81	2823	11.6	52.5	41	93	1a
PV 09357	89	2770	11.5	53.6	39	88	1a
PV 07302	90	2723	11.9	53.1	40	97	1a
Sacramento	99	2575	11.7	55.0	39	88	1a
PV 09354	85	2521	12.0	53.7	40	96	1a
Cal Early	98	2485	11.1	53.9	39	88	1a
PV 09355	86	2450	12.7	53.0	41	98	1a
PV 09356	87	2427	12.6	54.0	41	101	1a
PV 09360	91	2149	12.0	55.0	40	100	1a
PV 09384	94	2110	11.9	54.6	40	100	1a
PV 09376	95	2036	11.9	52.7	40	96	1a
PV 09377	93	1967	11.9	52.6	41	99	1a
PV 9373	96	1967	11.7	55.5	40	101	1a
	<b>Mean</b>	<b>2562</b>	<b>11.8</b>	<b>53.9</b>	<b>39.9</b>	<b>94</b>	
	<b>LSD 5%</b>	<b>632</b>	<b>1.2</b>	<b>0.9</b>	<b>1.5</b>	<b>3.8</b>	

<b>DRK Trial Mitchell 2013</b>							
<b>Variety</b>	<b>Var #</b>	<b>MC Yield</b>	<b>Moisture</b>	<b>Test Wt</b>	<b>DTF</b>	<b>DTM</b>	<b>Plt Type</b>
PV 09430	104	3182	12.9	56.0	40	99	1a
PV 09431	102	3157	12.6	55.7	41	99	1a
PV 07323	101	2807	12.2	54.4	41	99	1a
PV 09424	100	2442	15.4	54.1	42	101	1a
GTS 104	105	2433	12.4	54.9	41	99	1a
PV 09426	103	2372	13.5	55.5	41	101	1a
	<b>Mean</b>	<b>2732</b>	<b>13.1</b>	<b>55.1</b>	<b>40.7</b>	<b>99.6</b>	
	<b>LSD 5 %</b>	<b>502</b>	<b>1.3</b>	<b>1.3</b>	<b>1.5</b>	<b>2.4</b>	
	<b>%CV</b>	<b>12.2</b>	<b>1.6</b>	<b>1.6</b>	<b>2.4</b>	<b>3.6</b>	

<b>CDBN Mitchell 2013</b>							
<b>Variety</b>	<b>Var #</b>	<b>MC Yield</b>	<b>Moisture</b>	<b>Test Wt</b>	<b>DTF</b>	<b>DTM</b>	<b>100 sd wt</b>
Othello	1	3277	11.3	59.4	39	86	38.5
PT9-6	2	3460	11.6	59.1	41	90	33.6
PT11-9	3	3657	11.8	58.1	40	88	35.9
ISB 18	4	2963	11.4	59.6	40	92	36.0
ISB 19	5	3024	12.9	59.4	40	91	34.7
ISB 20	6	3540	11.7	59.5	39	89	38.9
ISB 21	7	3500	11.7	59.1	39	90	38.3
Rosetta	8	3239	11.2	61.5	41	91	31.4
UCD 9634	9	3251	11.7	60.4	41	91	30.3
GN9-4	10	3453	11.5	59.8	41	90	34.9
T-39	11	2578	10.6	60.3	44	92	18.1
Rexeter	12	3335	11.5	62.7	43	98	17.8
Majesty	13	2688	11.8	54.1	42	92	64.9
OAC Inferno	14	2570	13.9	56.4	40	101	49.0
CELRK	15	2487	11.6	54.1	39	86	54.1
Canario 707	16	2541	14.1	61.7	40	101	46.3
	<b>Mean</b>	3098	11.9	59.1	40.5	91.6	37.7
	<b>LSD 5%</b>	713	1.2	0.8	1.3	3.2	2.6
	<b>%CV</b>	16.1	6.8	1	2.2	2.4	4.8