

## ***Summary of Pinto Bean Variety Performance in Colorado Variety Trials from 1997-2006***

Every year CSU personnel conduct pinto bean variety performance trials in different locations. Both varieties and locations change from year to year so a straight-forward, statistical comparison of variety performance is not possible. However, it is useful to summarize yield performance over years to take stock of what we have learned over the last ten years. In the following table, yield performance by variety has been averaged over locations within each of ten years. Entries reported are public and commercial named varieties common to all trials for a year. Public and private experimental lines were not included in this summary. The number of locations per year varied from three to six. The trial average (at bottom of each year's yield column) is a simple average of the yields of reported varieties for that year. The second column is the yield for each reported variety expressed as a percent of the trial average for each year. Average yield over years and average percent of trial average are shown in the columns at the extreme right.

Forty-five public and commercial named pinto bean varieties have been tested during this ten year period. Some varieties were only tested for one year, while Bill Z and Montrose were tested in all ten years. Buckskin, Grand Mesa and Poncho were each tested for eight years. Even though rigorous comparisons of performance cannot be made for varieties tested in different years and locations, the Colorado dry bean industry can use the table to gain insight into relative performance of a large number of varieties. Varieties that perform well in one part of the state and not so well in another part would be expected to show up in the middle of the table along with varieties that had mediocre performance over all locations.

**Summary of Pinto Bean Variety Performance in Colorado Variety Trials from 1997-2006.**

Variety	1997 Yield		1998 Yield		1999 Yield		2000 Yield		2001 Yield		2002 Yield		2003 Yield		2004 Yield		2005 Yield		2006 Yield		Long Term Ave Yield	
	lb/ac	% ave	lb/ac	% ave	lb/ac	% ave	lb/ac	% ave	lb/ac	% ave	lb/ac	% ave	lb/ac	% ave	lb/ac	% ave	lb/ac	% ave	lb/ac	% ave	lb/ac	% ave
00218																	2557	103	2868	90	2713	97
01223																	2388	97	3384	106	2886	101
99204																	2629	106	2963	93	2796	100
99195 MR																	2374	96	3437	108	2905	102
Apache	2107	100	2166	93																	2137	97
Bill Z	2101	99	2167	93	2617	103	3212	106	2621	101	2613	110	2463	95	2253	106	2454	99	3689	115	2619	103
Buckskin	2008	95			2475	97	2769	91			2184	92	2382	92	2090	98	2428	98	3090	97	2428	95
Burke	2113	100	2066	89	2464	97	2713	90	2426	93											2356	94
Buster					2672	105	3087	102	2654	102					2185	102			3286	103	2777	103
Chase	2417	114	2628	113	2584	101	3049	101													2670	107
Cisco					2775	109	3280	108													3028	109
Elizabeth	2367	112	2281	98	2178	86	2780	92													2402	97
Grand Mesa					2631	103	2902	96	2458	95	2329	98	2283	88	1865	87	2265	92	2944	92	2460	94
GTS-900	1610	76							2339	90					1989	93					1979	86
Kodiak			2066	89	2542	100	2749	91													2452	93
La Paz																	2490	101	3164	99	2827	100
Maverick	1911	90	2434	105																	2173	98
Montrose	2830	134	2708	117	2821	111	3213	106	2705	104	2586	109	2956	114	2562	120	2449	99	3466	108	2830	112
Othello	2158	102			2265	89	3044	101							1936	91			3033	95	2487	95
Poncho					2613	103	3332	110	2862	110	2371	100	2826	109	2398	112	2676	108	3033	95	2764	106
Rally									2312	89	2134	90			1935	91					2127	90
ROG 261	2116	100	2368	102																	2242	101
USPT-73			2217	96	2418	95	3230	107	2825	109	2374	100									2613	101
Vision	1624	77	2421	104	2604	102			2790	107											2360	98
<b>Trial Average</b>	<b>2114</b>		<b>2320</b>		<b>2547</b>		<b>3028</b>		<b>2599</b>		<b>2370</b>		<b>2582</b>		<b>2135</b>		<b>2471</b>		<b>3197</b>		<b>2543</b>	

\*These varieties were each only tested for one year during the ten year period: '01242, 03250, '99217, '99230, '6113, '6115, '617, '619, Canyon, COB-2576-99, 'COB-2585-99, GTS Cob 502-94, Frontier, ROG 117, ROG 179, ROG 214, ROG 299, UI 320, USPT 72, USPT 74, 'Winchester.