

2025 Irrigated Dry Bean Variety Performance Trial at Rocky Ford

Variety	Source	Traits	Plant Architecture	Yield ^a lb/ac	Test		
					Weight lb/bu	Seeds/Pound	Moisture percent
<u>Pinto</u>							
Shine	ADM Seedwest	Slow-Dark	Upright Indeterminate	3414	60.0	982	10.1
TVS 21-7-8	Treasure Valley Seed	Slow-Dark	Upright Indeterminate	3363	61.1	963	10.3
Gleam	ADM Seedwest	Slow-Dark	Upright Indeterminate	3324	63.0	1131	10.3
NE4-17-10	Univ. of Nebraska-Lincoln	Slow-Dark	-	3042	58.9	1055	10.4
Charro	Michigan State Univ.	-	Upright	3009	62.1	1052	10.7
NE2-22-18	Univ. of Nebraska-Lincoln	-	-	2976	59.9	926	10.0
USDA Diamondback	Kelley Bean Co. Inc	Slow-Dark	Upright	2972	60.4	971	10.9
TVS 21-4-6	Treasure Valley Seed	Slow-Dark	Upright Indeterminate	2954	57.7	911	10.0
USDA Rattler	Kelley Bean Co. Inc	-	Upright	2940	59.5	947	10.5
Bronco	Treasure Valley Seed	Slow-Dark	Upright Indeterminate	2863	60.9	949	10.6
Mystic	ADM Seedwest	Slow-Dark	Upright Indeterminate	2752	61.9	884	10.6
NE2-17-37	Univ. of Nebraska-Lincoln	Slow-Dark	-	2521	58.3	1057	10.7
Wildcat	Univ. of Nebraska-Lincoln	Slow-Dark	Upright	2414	59.3	867	10.6
NE2-22-36	Univ. of Nebraska-Lincoln	Slow-Dark	-	2295	59.5	907	10.5
SV6139GR	Seminis Vegetables by Bayer	-	Determinate Bush	2044	59.4	1088	10.1
TVS 21-6-10	Treasure Valley Seed	Slow-Dark	Upright Indeterminate	2038	58.8	971	11.5
NE4-17-6	Univ. of Nebraska-Lincoln	Slow-Dark	-	1956	59.1	955	10.6
<u>Black</u>							
Slate	Seedwest	-	Upright Indeterminate	3050	63.8	2081	10.4
Black Pearl	Michigan State Univ.	-	Upright	2872	62.3	1964	10.2
Kona	Michigan State Univ.	-	Upright	2745	63.1	2150	10.1
Ace	Seedwest	-	Upright Indeterminate	2402	61.9	2071	10.1
B18094173	Seedwest	-	Upright Indeterminate	2160	62.2	1807	10.8
Butte	Seedwest	-	Upright Indeterminate	1791	62.3	1998	10.1
<u>Mayacoba & Great Northern</u>							
Y2033307	Seedwest	-	Upright Determinate	2528	63.1	1281	10.3
Patron	Farmer Bean & Seed	-	Bush	2434	63.6	1006	10.1
Eiger	Michigan State Univ.	-	Upright	2390	60.4	1075	10.4
SV0863	Seminis Vegetables by Bayer	-	Bush	2185	64.3	1038	11.0
Yellowstone	Michigan State Univ.	-	Upright Bush	1543	61.6	1006	11.2
Average				2606	61.0	1218	10.5
				^b LSD (0.30)	345	0.7	
				^b LSD (0.05)	662	1.4	
Coefficient of Variation (CV)				9.8%	1.2%		

^aVarieties sorted by pinto, black, and other market bean classes and then ranked from highest to lowest yield within each class. All yields were corrected to 14% moisture.

^bIf the difference between varieties is equal to or greater than the LSD value, the chance the difference is significant is 70% (for LSD 0.30). Farmers selecting a variety based on yield should use the LSD (.30) to protect themselves from false negative conclusions (concluding varieties are the same when they are actually different). Companies or researchers may use LSD (.05) to avoid false positive conclusions (concluding varieties are different when they are actually the same).

Site Information

Collaborator: CSU Arkansas Valley Research Center: Jeff Davidson and Kevin Tanabe
 Planting Date: June 4, 2025
 Harvest Date: October 2, 2025
 Herbicides: None, hand-weeded multiple times.
 Soil Type: Rocky Ford silty clay loam
 GPS Coordinates: 38.039605074, -103.6934131
 Trial Comments: Trial planted into good moisture and had good stand establishment. Heavy bindweed pressure in trial reduced yield. Plots irrigated regularly throughout the summer.

*The data included in this table may not be republished without permission.
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