

2025 Irrigated Black Bean Variety Performance Trial at Yuma

Variety	Source	Plant Type	Yield ^a lb/ac	Maturity days	Test		
					Weight lb/bu	Seeds/Pound	Moisture percent
Black Pearl	Michigan State University	Upright	2784	99	64.5	2279	8.8
Slate	Seedwest	Upright Determinate	2578	95	64.9	2245	9.5
ND Galaxy	NDSU	Upright Indeterminate	2248	98	64.2	2234	8.6
Eiger*	Michigan State University	Upright	2105	98	64.4	1575	14.9
B18094173	Seedwest	Upright Indeterminate	2062	95	62.6	2622	9.2
Kona	Michigan State University	Upright	1906	98	62.3	2479	9.1
Butte	Seedwest	Upright Indeterminate	1762	95	63.2	2228	10.3
Ace	Seedwest	Upright Indeterminate	1699	95	64.3	2492	9.5
Average			2143	97	63.8	2269	10.0
^b LSD (0.30)			253		2.1		
^b LSD (0.05)			505		4.2		
Coefficient of Variation (CV)			9.6%		1.5%		

*Great Northern market class

^aVarieties are ranked from highest to lowest yield. All yields were corrected to 14% moisture.

^bFarmers 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 the LSD (.05) to avoid false positive conclusions (concluding varieties are different when they are actually the same).

Site Information

Collaborator: JT Farms

Planting Date: June 13, 2025

Harvest Date: September 29, 2025

Herbicides: Trial cultivated to control palmer amaranth and then hand-weeded for further Palmer amaranth control. Pre-Harvest desiccant: Sharpen at 2 oz/ac and glyphosate at 32 oz/ac with AMS and Tapran applied 11 days prior to harvest.

Soil Type: Haxtun loamy sand

GPS Coordinates: 40.0733586, -102.5294372

Trial Comments: Trial planted into good moisture and had even and excellent stand establishment. Heavy palmer weed pressure, control was good until after flowering, then low to medium pressure in plots. Trial irrigated regularly throughout the summer and desiccated when at least 80% of the plots had greater than 80% dry

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