



UNIVERSITY of NEBRASKA
LINCOLN

2024 Proso Millet Variety Trials Akron, CO and Sidney, NE



COLORADO STATE
UNIVERSITY
CROPS TESTING

Name	Company	Average Yield (bu/ac) ¹	Sidney, NE Yield (bu/ac)	Akron, CO Yield (bu/ac)	Average Test Weight (lb/bu)	Average Plant Height (in) ²	Days to Heading ³	Days to Maturity ⁴
PMx11.26-63	UNL Experimental	67.8	50.1	85.9	56.6	31.6	59.9	95.0
PMx11.32-93	UNL Experimental	67.2	46.6	87.8	56.4	32.2	58.0	93.6
PMx11.35-32	UNL Experimental	64.5	44.5	84.6	56.0	30.6	60.4	94.8
EX DLG24382	Dryland Genetics	64.3	44.4	84.2	56.1	32.0	60.9	95.0
DLG 240	Dryland Genetics	63.9	43.2	85.4	55.8	31.0	59.9	95.3
PMx11.31-101	UNL Experimental	62.1	42.4	81.7	56.4	31.3	57.6	86.5
DLG 197	Dryland Genetics	59.2	39.7	78.8	56.4	30.7	57.6	89.5
Early Bird	UNL-ARD	57.7	41.5	73.9	56.6	29.9	55.6	84.5
HxM 10-29	UNL Experimental	55.7	42.6	68.7	56.7	30.6	56.6	84.8
Huntsman	UNL-ARD	53.3	37.2	69.5	56.8	30.6	58.5	88.3
DLG 317	Dryland Genetics	51.9	36.4	67.4	55.2	29.7	58.5	89.8
Sunrise	UNL-ARD	51.7	40.4	63.0	56.1	30.0	56.6	84.8
Horizon	UNL-ARD	51.5	37.1	66.0	55.7	30.0	55.0	85.4
Plateau	UNL-ARD	40.7	38.8	40.7	52.5	30.1	50.9	83.5
Dawn	UNL-ARD	26.2	26.8	25.6	54.1	28.5	50.5	70.0
	SE	3.5	3.4	3.9	0.5	0.7	1.1	2.0
	LSD⁵	5.8	5.6	6.5	0.8	1.2	1.9	3.3
	Mean	55.8	40.8	70.9	55.8	30.6	57.1	88.0
	CV⁶	6.3	8.3	5.6	0.9	2.4	2.0	2.2
	Reps	16	8	8	16	8	8	8
	Correlation		0.84				0.89	

¹ Yield values corrected to 12% moisture. Bolded values indicate highest LSD grouping.

² Plant heights collected at Sidney, NE location.

³ Measured as days from planting to 50% heading at the Akron, CO location.

⁴ Measured as days from planting to physiological maturity at the Akron, CO location.

⁵ For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 90%.

⁶ Coefficient of Variation (CV) indicates the quality of a trial, optimally lower than 10%.

SITE INFORMATION

Location:	USDA-ARS Central Great Plains Research Station, Akron, CO	UNL High Plains Ag Lab, Sidney, NE
Planting Date:	June 5, 2024	June 5, 2024
Seeding Rate:	-----	-----15 lb/acre-----
Harvest Date:	September 20, 2024	September 9, 2024
GPS:	40.14921, -103.14071	41.326894, -102.996635
Soil Type:	Rago silt loam	Kuma loam
Notes on Trial:	Planted about 1.25" deep into excellent moisture and wheat residue. Acceptable emergence and stands. Weather station data showed the trial received 8.6" of precipitation from June 15th through September 20th.	Planted 0.75" into tilled wheat stubble with good soil moisture. Early emergence and stands were impacted by a storm after planting, but plot area tillered decently and filled out. Hot and dry growing season under persistent drought.

Do not reprint this data without permission. Contacts: [Sally Jones-Diamond](#), [Amanda Easterly](#), [Cody Creech](#)

We would like to thank Perry Brothers Seed of Otis, CO for their generous support of these trials.