



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. |

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