

Oat Dryland Variety Trial - NDSU

WREC, Williston, ND 2018

Variety	Days to heading (DAP <sup>1</sup> )	Plant height (in)	Test weight <sup>‡</sup> (lb/bu)	Yield <sup>#</sup>		
				2018	2-Yr Avg* -----(bu/a)-----	3-Yr Avg**
Jury	55	32	43.5	87.2	73.8	70.2
Newburg	52	32	43.0	85.4	74.7	70.4
Stallion	53	31	43.4	84.0	71.2	59.9
AC Pinnacle	55	31	43.8	83.7	88.1	79.8
Beach	53	31	44.3	83.4	71.2	65.0
Leggett	54	30	43.1	82.7	83.7	76.0
CDC Dancer	53	34	43.7	82.0	83.7	79.8
Deon	54	33	42.4	80.6	76.6	73.4
Otana	56	34	42.3	79.9	77.4	72.3
Killdeer	50	31	43.2	78.3	89.7	81.6
HiFi	55	30	43.5	78.3	77.0	71.2
CS Camden	53	30	40.9	77.4	-	-
CDC Minstrel	51	33	42.5	75.2	85.1	-
Souris	55	33	42.1	72.6	79.1	73.7
Hayden	51	30	43.7	72.0	-	-
Rockford	52	32	42.7	71.5	81.6	72.7
Hytest	50	32	43.5	57.9	63.4	60.0
Paul***	57	29	50.9	55.3	52.7	55.3
Mean	53	31	43.9	74.9	-	-
CV (%)	2.4	8	1.4	11.6	-	-
LSD (5%)	2.1	4	1.0	14.1	-	-
LSD (10%)	1.7	3	0.8	11.8	-	-

Location: WREC; Latitude 48° 8' N; Longitude 103° 44' W; Elevation 2105 ft.

Previous crop: Cover Crop.

Planted: 05/03/2018.

Harvested: 08/02/2018.

Soil test (0-6"): P=18 ppm; K=312 ppm; pH=5.7; OM=2.6%.

Soil type: Williams-Bowbells loam.

(0-24"): NO3-N=39 lb/a.

Applied fertilizers in lb/a: N=42; P<sub>2</sub>O<sub>5</sub>=18; K<sub>2</sub>O=5.

<sup>‡</sup>Test Weight = Reported on a 13.5% moisture basis. <sup>#</sup>Yield = Reported on a 13.5% moisture basis.

\*Averages of years 2016 and 2017. \*\*Averages of years 2015, 2016, and 2017.

<sup>1</sup>DAP = Days after planting.

\*\*\*Hull-less variety. When comparing yield of hull-less oat varieties and varieties with hulls, multiply the yield of the hull-less oats by 1.35 (the hull of a hulled kernel is 35 percent of the weight).

**Note: Trial received heavy rain, wind, and hailstorms that damaged the crop and adversely affected yield.**

06/23/2018: Wind speed=46 mph; Precipitation=1.53".

06/28/2018: Wind speed=61 mph; Precipitation=0.94"; Hail.

07/09/2018: Wind speed=48 mph; Precipitation=1.67".