



# 2019 South Dakota Oat Variety Trial Results Miller

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**Cooperator:** Chris Howard  
**Location:** 44.555321°, -98.910597°  
**Soil Type:** Houdek-Prosper loams, 0-2% slopes  
**Previous crop:** soybeans  
**Tillage:** No-till  
**Row spacing:** 8"  
**Seeding Rate:** 1.2 million PLS/acre  
**Fertilizer:**  
     **-Starter:** 90 lb/acre 30-10-10  
     **-Other:** no response from cooperator  
**Herbicide:**  
     **-Burndown:** no response from cooperator  
     **-Post:** no response from cooperator  
**Fungicide:** no response from cooperator  
**Date seeded:** 5/16/2019  
**Date harvested:** 8/29/2019  
**Notes:** Trial was affected by herbicide carryover.

Table 1. 2019 oat variety performance trial results (average of 4 replications) at Miller, SD. Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of the trial are shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	2017 (bu/a)	2018 (bu/a)	2019 (bu/a)	2-year (bu/a)	3-year (bu/a)
Hayden	42	5.0	33.9	84.5	123.8	55.5	89.7	87.9
CS Camden	36	5.0	27.2	77.0	121.8	52.6	87.2	83.8
Deon	43	3.5	33.9	77.1	108.3	61.8	85.0	82.4
Goliath	45	4.5	33.5	74.5	107.1	58.2	82.7	79.9
Newburg	42	4.5	27.0	84.7	102.8	39.6	71.2	75.7
Warrior	38	2.3	32.9	86.0	98.3	41.4	69.9	75.2
SD140515	36	2.0	32.7	73.7	102.4	49.3	75.9	75.1
Shelby427	42	4.8	31.4	82.3	94.0	48.1	71.1	74.8
Jury	41	4.0	30.2	75.9	104.9	39.8	72.4	73.5
Natty	38	3.0	32.3	68.2	111.8	31.3	71.5	70.4
Saddle	34	1.5	27.7	63.4	99.4	31.7	65.5	64.8
Horsepower	34	5.0	25.6	72.6	103.3	18.6	60.9	64.8
Antigo	37	5.0	34.6	64.7	79.2	50.6	64.9	64.8
Jerry	35	4.8	31.2	69.8	95.3	27.1	61.2	64.0
Sumo	33	2.0	30.0	66.9	75.6	31.5	53.5	58.0
MN Pearl	37	2.5	32.0	-	-	56.6	-	-
<b>Trial Average#</b>	38	3.5	31.0	74.8	101.9	43.3	72.2	73
<b>LSD(0.05)†</b>	-	-	1.5	5.9	5.8	7.5	-	-
<b>C.V.%‡</b>	-	-	3.3	5.6	3.9	9.6	-	-

\* Lodging score: 1, perfectly standing; to 5, completely flat.

# Trial averages may include values from experimental lines that are not reported.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is considered acceptable.