



OCTOBER 2019

SOUTH DAKOTA STATE UNIVERSITY®  
AGRONOMY, HORTICULTURE, & PLANT SCIENCE DEPARTMENT

# 2019 South Dakota Oat Variety Trial Results Okaton

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**Location:** 43.908333°, -100.967222°

**Soil Type:** Kirley clay loam, 0-3% slopes

**Previous crop:** lentils and cover crop

**Tillage:** No-till

**Row spacing:** 10"

**Seeding Rate:** 1.2 million PLS/acre

**Fertilizer:**

-Starter: 6 gal/acre 10-25-0-5S-.25Z

-Other: 35 gal/acre 28-0-0 mid-row banded

**Herbicide:**

-Burndown: not reported

-Post: none

**Fungicide:** none

**Date seeded:** 5/13/2019

**Date harvested:** 8/15/2019

**Notes:** There is no data from this location in 2016-2017, multi-year averages are not available.

Table 1. 2019 oat variety performance trial results (average of 4 replications) at Okaton, SD. Entries are sorted by 2019 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)
MN Pearl	34	-	33.5	-	-	109.1	-	-
Goliath	40	-	33.5	-	-	108.1	-	-
Newburg	34	-	30.9	-	-	102.7	-	-
Deon	37	-	33.1	-	-	101.7	-	-
SD140515	29	-	33.4	-	-	101.2	-	-
Jury	36	-	32.4	-	-	97.8	-	-
CS Camden	32	-	26.8	-	-	97.3	-	-
Natty	33	-	34.5	-	-	97.1	-	-
Horsepower	30	-	31.9	-	-	93.7	-	-
Shelby427	34	-	33.6	-	-	92.7	-	-
Hayden	31	-	32.6	-	-	90.1	-	-
Warrior	31	-	31.5	-	-	89.9	-	-
Jerry	34	-	29.9	-	-	82.0	-	-
Sumo	32	-	32.9	-	-	72.1	-	-
Saddle	30	-	30.4	-	-	72.1	-	-
Antigo	30	-	33.2	-	-	70.8	-	-
<b>Trial Average#</b>	33	-	32.5	-	-	92.4	-	-
<b>LSD(0.05)†</b>	-	-	1.2	-	-	12.5	-	-
<b>C.V.%‡</b>	-	-	2.8	-	-	9.2	-	-

\* 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.