

## agronomy



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

## 2018 South Dakota Oat Variety Trial Results Miller

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**Location:** 44.413580°, -98.896794°

Soil Type: Houdek-Dudley complex, 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: 1/2 gallon/acre Presto Gold applied with herbicide

Herbicide:

-Burndown: NR

-Post: 16 oz WideMatch + 8 oz IV6

Fungicide: none

Date seeded: 5/2/2018

Date harvested: 8/6/2018



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Table 1. 2018 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)	2016 (bu/a)	2017 (bu/a)	2018 (bu/a)	2-year (bu/a)	3-year (bu/a)
Hayden	38	2.5	35.2	120.1	84.5	123.8	104.2	109.5
CS Camden	36	2.8	29.4	121.4	77.0	121.8	99.4	106.7
Souris	35	3.0	33.8	107.5	84.4	111.8	98.1	101.2
Newburg	39	2.8	31.3	101.4	84.7	102.8	93.7	96.3
Deon	39	2.0	34.7	101.7	77.1	108.3	92.7	95.7
Natty	38	3.3	35.0	99.8	68.2	111.8	90.0	93.2
Goliath	41	3.0	34.9	97.4	74.5	107.1	90.8	93.0
Jury	39	2.5	32.7	96.3	75.9	104.9	90.4	92.4
Horsepower	32	4.0	33.1	96.5	72.6	103.3	87.9	90.8
Shelby427	38	2.5	35.3	95.7	82.3	94.0	88.2	90.7
Rockford	37	1.8	35.6	104.0	72.2	93.7	82.9	89.9
Saddle	32	2.0	32.7	97.1	63.4	99.4	81.4	86.6
Jerry	37	2.5	34.4	75.2	69.8	95.3	82.5	80.1
Sumo	34	2.8	34.2	78.6	66.9	75.6	71.3	73.7
Antigo	35	2.5	34.7	-	64.7	79.2	71.9	-
Trial Average#	36	2.5	34.2	96.6	74.1	105.6	88.4	92.8
LSD(0.05)†	2	0.7	0.9	8.4	5.9	5.8	-	-
C.V.%‡	8.5	-	1.9	6.2	5.6	3.9	-	-

<sup>\*</sup> Lodging score: 1, perfectly standing; to 5, completely flat.

<sup>#</sup> Trial averages may include values from experimental lines that are not reported.

<sup>†</sup> Value required (≥LSD) to determine if varieties are significantly different from one another.

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