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

## 2018 South Dakota Oat Variety Trial Results South Shore

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**Location:** 45.105569°, -97.086978°

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slopes

Previous crop: soybeans
Tillage: Conventional

Row spacing: 8"

Seeding Rate: 1.8 million PLS/acre

Fertilizer:

-Starter: 90 lb/acre 30-10-10

-Other: 425 lb/acre 46-0-0; 20 lb/acre 21-0-0-24S; 10 lb/acre Zinc preplant broadcast

Herbicide:

-Burndown: NR

-Post: 1 pt Bronate

Fungicide: none

**Date seeded:** 5/14/2018 **Date harvested:** 8/16/2018

Notes: Trial was severely lodged.



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Table 1. 2018 oat variety performance trial results (average of 4 replications) at South Shore, 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)
Saddle	40	4.3	33.3	94.0	162.5	146.0	154.2	134.2
Hayden	44	3.0	35.1	91.7	162.1	145.0	153.6	132.9
Natty	45	4.5	34.9	90.8	152.0	148.8	150.4	130.5
Goliath	48	3.8	35.7	79.8	153.5	151.9	152.7	128.4
Newburg	46	4.3	34.3	86.1	160.1	134.5	147.3	126.9
Horsepower	39	5.0	34.2	88.9	143.2	143.2	143.2	125.1
CS Camden	42	3.5	32.0	78.7	131.7	160.6	146.1	123.7
Deon	42	3.3	34.7	82.4	147.8	140.8	144.3	123.7
Jury	46	3.3	35.7	80.2	142.9	136.7	139.8	119.9
Shelby427	42	4.5	35.2	86.6	140.5	130.1	135.3	119.0
Jerry	43	5.0	36.1	88.2	143.3	123.5	133.4	118.3
Souris	41	4.3	34.1	82.6	144.0	128.2	136.1	118.3
Sumo	43	5.0	36.4	81.1	142.3	129.3	135.8	117.6
Rockford	46	3.8	36.6	82.7	148.4	121.0	134.7	117.4
Antigo	40	4.5	35.7	-	117.2	138.1	127.6	-
Trial Average#	43	4.0	35.2	83.6	145.4	141.5	142.3	124.0
LSD(0.05)†	3	0.7	1.1	6.9	9.2	9.0	-	-
C.V.%‡	4.6	-	2.3	5.9	4.5	4.6	-	-

<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.