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

## 2019 South Dakota Oat Variety Trial Results Beresford

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Location: 43.043222°, -96.901606°

Soil Type: Egan-Clarno-Tetonka complex, 0-2% slopes

Previous crop: Soybeans

Tillage: Conventional till

Row spacing: 7"

Seeding Rate: 1.2 million PLS/acre

Fertilizer:

-Starter: 60 lb/acre 30-10-10

-Other: none

Herbicide:

-Burndown: NA

-Post: 1 pt/acre Bronate

Fungicide: none

Date seeded: 4/26/2019

Date harvested: 8/5/2019



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Table 1. 2019 oat variety performance trial results (average of 4 replications) at Beresford, 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)
Deon	43	4.0	34.7	127.5	126.6	116.6	121.6	123.6
Warrior	40	1.8	35.4	114.4	106.9	114.7	110.8	112.0
SD140515	41	2.8	36.0	124.7	109.0	98.2	103.6	110.6
Saddle	40	2.0	36.8	114.8	95.4	115.3	105.4	108.5
Antigo	45	4.3	38.7	108.5	101.9	104.4	103.1	104.9
Sumo	41	2.5	38.1	94.8	91.8	118.6	105.2	101.7
CS Camden	41	4.5	28.2	127.3	86.9	68.6	77.7	94.3
Natty	41	4.0	35.7	113.8	83.3	77.5	80.4	91.5
Goliath	44	4.0	31.1	109.0	74.5	64.8	69.6	82.8
Hayden	39	4.8	30.6	104.3	58.9	54.6	56.7	72.6
Newburg	40	4.5	29.6	104.0	64.1	43.2	53.6	70.4
Shelby427	_	5.0	32.3	99.1	64.2	44.2	54.2	69.1
Jury	42	3.8	33.3	94.5	65.1	47.7	56.4	69.1
Jerry	_	4.8	30.5	97.9	58.6	39.4	49.0	65.3
Horsepower	_	4.8	24.6	89.6	50.3	25.1	37.7	55.0
MN Pearl	43	2.8	33.9	-	-	111.3	_	-
Trial Average#	42	3.6	34.1	108.7	89.4	89.9	79.0	88.8
LSD(0.05)†	_	-	2.1	12.5	15.6	13.6	_	-
C.V.%‡	-	-	3.6	7.5	10.6	10.8	-	-

<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.