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

2018 South Dakota Oat Variety Trial Results Beresford

Jonathan Kleinjan | SDSU Extension Crop Production Associate
Melanie Caffe-Trembl | SDSU Oat Breeder
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager
Nick Hall | Agricultural Research Manager

Cooperator: SDSU Southeast Research Farm, Peter Sexton, manager
Location: 43.043867°, -96.901801°
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: 170 lb/acre 46-0-0 preplant incorporated
Herbicide:
-Burndown: NA
-Post: 1 pt Buctril, 8 oz MCPA, 1% UAN
Fungicide: none
Date seeded: 4/27/2018
Date harvested: 8/1/2018
Notes: Trial location was flooded out in 2016. Three-year averages are not available.

Table 1. 2018 oat variety performance trial results (average of 4 replications) at Beresford, SD. Entries are sorted by overall 2-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)
Deon	41	1.0	30.3	-	127.5	126.6	127.1	-
CS Camden	37	1.2	24.1	-	127.3	86.9	107.1	-
Antigo	36	1.1	33.2	-	108.5	101.9	105.2	-
Saddle	37	1.0	30.3	-	114.8	95.4	105.1	-
Natty	43	1.5	31.6	-	113.8	83.3	98.6	-
Sumo	36	1.0	32.0	-	94.8	91.8	93.3	-
Goliath	45	3.3	30.0	-	109.0	74.5	91.8	-
Newburg	44	3.0	28.1	-	104.0	64.1	84.0	-
Shelby427	39	1.0	31.0	-	99.1	64.2	81.6	-
Hayden	40	2.3	30.1	-	104.3	58.9	81.6	-
Jury	44	2.1	29.5	-	94.5	65.1	79.8	-
Jerry	42	2.1	31.3	-	97.9	58.6	78.2	-
Souris	38	3.2	28.8	-	93.1	50.1	71.6	-
Horsepower	34	4.3	27.0	-	89.6	50.3	70.0	-
Rockford	42	1.6	27.8	-	96.3	38.9	67.6	-
Trial Average#	40	1.8	30.8	-	108.7	89.4	89.5	-
LSD(0.05)†	2.4	1.1	1.9	-	12.5	15.6	-	-
C.V.%‡	3.8	-	4.0	-	7.5	10.6	-	-

* 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.