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

2018 South Dakota Oat Variety Trial Results Wall

Jonathan Kleinjan | SDSU Extension Crop Production Associate
Christopher Graham | SDSU Extension Agronomist
Bruce Swan | Agricultural Research Manager
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Cooperator: Merritt Patterson and Sons
Location: 44.104170°, -102.346670°
Soil Type: Santana loam, 0-2% slopes
Previous crop: winter wheat
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: 32 oz Roundup
-Post: 16 oz WideMatch
Fungicide: none
Date seeded: 4/19/2018
Date harvested: 8/6/2018
Notes: There is no data from this location in 2016. Three-year averages are not available.

Table 1. 2018 oat variety performance trial results (average of 4 replications) at Wall, 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)
Hayden	38	-	38.1	-	71.3	70.5	70.9	-
Rockford	37	-	38.2	-	72.5	66.6	69.5	-
Souris	35	-	36.1	-	67.0	69.5	68.3	-
Deon	39	-	37.2	-	70.7	64.9	67.8	-
Jury	40	-	37.9	-	73.2	60.6	66.9	-
Natty	35	-	36.6	-	76.1	56.7	66.4	-
Antigo	34	-	38.1	-	70.8	50.9	60.8	-
Horsepower	30	-	36.7	-	63.5	56.6	60.1	-
CS Camden	34	-	35.0	-	55.0	64.3	59.6	-
Jerry	38	-	37.0	-	68.1	50.0	59.1	-
Newburg	40	-	36.2	-	58.0	58.2	58.1	-
Goliath	43	-	39.3	-	53.6	59.7	56.6	-
Saddle	25	-	35.3	-	62.0	49.0	55.5	-
Shelby427	32	-	37.4	-	65.1	45.3	55.2	-
Sumo	34	-	35.6	-	53.6	45.5	49.6	-
Trial Average#	36	-	37.3	-	66.0	59.7	61.6	-
LSD(0.05)†	-	-	1.0	-	18.9	9.4	-	-
C.V.%‡	-	-	1.9	-	20.3	11.1	-	-

* 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.