



2018 South Dakota Oat Variety Trial Results Miller

Jonathan Kleinjan | SDSU Extension Crop Production Associate

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

Cooperator: Chris Howard
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 LV6
Fungicide: none
Date seeded: 5/2/2018
Date harvested: 8/6/2018

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	-	-

* 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.