



2019 South Dakota Oat Variety Trial Results Aberdeen

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Cooperator: Locken Farms
Location: 45.489653°, -98.562760°
Soil Type: Barnes-Svea loams, 0-3% 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: 136-30-40-19S-1Z preplant broadcast
Herbicide:
 -Burndown: none
 -Post: none
Fungicide: none
Date seeded: 5/3/2019
Date harvested: 8/15/2019

Table 1. 2019 oat variety performance trial results (average of 4 replications) at Aberdeen, 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)
CS Camden	42	4.0	27.9	80.5	89.5	123.5	106.5	97.8
Warrior	41	2.5	34.2	72.9	71.7	141.1	106.4	95.2
SD140515	40	2.0	35.3	69.2	70.1	136.3	103.2	91.9
Deon	43	3.5	31.9	63.4	72.6	132.0	102.3	89.3
Hayden	43	5.0	30.5	77.0	82.1	92.0	87.1	83.7
Goliath	45	4.8	30.4	70.2	75.3	100.4	87.8	82.0
Natty	46	5.0	30.7	73.8	69.4	102.6	86.0	82.0
Jury	43	4.5	28.1	79.5	69.7	90.7	80.2	80.0
Shelby427	41	4.8	31.8	78.9	67.7	85.6	76.6	77.4
Newburg	41	5.0	24.8	72.5	68.2	86.6	77.4	75.8
Antigo	38	3.5	35.0	59.2	51.4	115.2	83.3	75.2
Saddle	37	1.0	33.4	48.2	56.4	119.6	88.0	74.7
Sumo	37	1.5	35.7	48.7	53.1	105.9	79.5	69.2
Jerry	41	4.5	31.0	57.2	55.4	91.3	73.3	67.9
Horsepower	36	4.8	25.6	69.8	63.8	62.2	63.0	65.3
MN Pearl	41	4.0	32.5	-	-	147.4	-	-
Trial Average#	41	3.5	32.2	68.1	67.8	108.3	86.7	80.5
LSD(0.05)†	-	-	1.2	9.7	8.0	9.3	-	-
C.V.%‡	-	-	2.8	10.4	8.1	5.4	-	-

* 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.