



2019 South Dakota Oat Variety Trial Results Volga

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Location: 44.302373°, -96.918581°

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slopes

Previous crop: Soybeans

Tillage: Minimum-till

Row spacing: 8"

Seeding Rate: 1.2 million PLS/acre

Fertilizer:

- Starter: 90 lb/acre 30-10-10
- Other: none

Herbicide:

- Burndown: NA
- Post: 1.5 pt Bronate Advanced

Fungicide: none

Date seeded: 5/15/2019

Date harvested: 8/30/2019

Notes: Trial was affected by very wet growing conditions and a severe late outbreak of crown rust.

Table 1. 2019 oat variety performance trial results (average of 4 replications) at Volga, 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	40	3.3	-	151.4	74.0	48.1	61.0	91.2
CS Camden	35	3.7	-	155.6	79.7	38.0	58.9	91.1
SD140515	39	2.7	-	150.7	64.4	56.5	60.5	90.5
Warrior	36	2.3	-	134.0	67.8	61.6	64.7	87.8
Goliath	44	4.3	-	158.4	70.2	23.8	47.0	84.1
Jury	40	4.7	-	157.7	63.1	18.0	40.5	79.6
Hayden	39	5.0	-	159.5	52.5	17.5	35.0	76.5
Newburg	37	5.0	-	153.1	62.8	12.3	37.6	76.1
Sumo	35	3.0	-	131.0	47.2	47.7	47.4	75.3
Natty	38	4.3	-	149.2	49.8	21.6	35.7	73.5
Saddle	37	2.3	-	125.4	53.7	38.9	46.3	72.7
Shelby427	41	5.0	-	143.0	45.6	28.6	37.1	72.4
Antigo	33	4.3	-	131.1	45.4	35.4	40.4	70.6
Horsepower	33	5.0	-	148.6	40.9	4.3	22.6	64.6
Jerry	36	5.0	-	128.8	40.0	1.7	20.9	56.8
MN Pearl	37	4.7	-	-	-	49.1	-	-
Trial Average#	38	3.9	-	144.9	60.8	39.5	43.7	77.5
LSD(0.05)†	-	-	-	11.2	6.8	6.8	-	-
C.V.%‡	-	-	-	5.5	7.9	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.