



**SOUTH DAKOTA
STATE UNIVERSITY**
College of Agriculture, Food
and Environmental Sciences

South Dakota State University Extension
South Dakota Agricultural Experiment Station at SDSU

2021 South Dakota Oat Variety Trial Results Winner

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Cooperator: Jorgenson Land & Cattle
Location: 43.528023°, -99.841136°
Soil Type: Millboro silty clay, 3-6% slopes
Previous crop: sorghum
Tillage: no-till
Row spacing: 7"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
-Starter: 90 lb/acre 30-10-10
-Other: none
Herbicide:
-Burndown: NR
-Post: 1.5 pt/acre Bronate (bromoxynil)
Fungicide: none
Date seeded: 3/24/2021
Date harvested: 7/20/21

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Table 1. 2021 oat variety performance trial results (average of four replications) at Winner, South Dakota. Entries are sorted by overall three-year yield. Varieties yielding in the top third of the trial are shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	2019 (bu/a)	2020 (bu/a)	2021 (bu/a)	2-year (bu/a)	3-year (bu/a)
Deon	23	1.0	30.5	79.3	118.2	36.1	77.1	77.9
Hayden	20	1.0	22.2	67.4	129.3	33.9	81.6	76.9
Goliath	23	1.0	28.1	73.1	118.4	36.0	77.2	75.9
MN Pearl	20	1.0	25.2	67.5	126.1	31.1	78.6	74.9
Shelby427	20	1.0	26.3	65.2	118.5	34.6	76.6	72.8
CS Camden	18	1.0	22.8	71.6	111.1	34.0	72.6	72.2
Natty	23	1.0	26.2	61.5	113.3	36.3	74.8	70.4
Rushmore	21	1.0	24.1	60.3	115.2	27.4	71.3	67.6
Warrior	18	1.0	24.2	60.6	113.7	25.2	69.4	66.5
Saddle	18	1.0	22.0	48.3	104.5	20.0	62.3	57.6
Esker2020	19	1.0	23.9	-	110.1	28.2	69.2	-
KWS Ocre	18	1.0	32.0	-	-	35.9	-	-
Reins	16	1.0	30.4	-	-	26.6	-	-
KWS Opaline	16	1.0	23.4	-	-	23.1	-	-
Trial Average#	20	1.0	25.9	65.6	115.7	32.5	73.7	71.3
LSD(0.05)†	-	-	3.3	9.4	7.2	3.6	-	-
C.V.%‡	-	-	9.0	10.2	4.4	7.8	-	-

* 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.