



**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 Bath

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Cooperator: Gregg and Tom Erickson
Location: 45.375200°, -98.330150°
Soil Type: Great Bend-Beotia silt loams, 2-6% 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: 118-91-45 preplant broadcast
Herbicide:
-Burndown: NR
-Post: 1.3 pt/acre WideMatch + 1.5 pt/acre MCPA
Fungicide: none
Date seeded: 4/16/2021
Date harvested: 8/19/2021

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Table 1. 2021 oat variety performance trial results (average of four replications) at Bath, 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)
CS Camden	25	1.0	30.4	123.5	180.2	136.2	158.2	146.6
Deon	23	1.0	33.5	132.0	182.3	110.7	146.5	141.7
Warrior	22	1.0	32.4	141.1	170.2	113.2	141.7	141.5
MN Pearl	22	1.0	33.4	147.4	177.2	98.3	137.7	141.0
Rushmore	24	1.0	33.5	136.3	178.4	92.5	135.5	135.8
Goliath	32	2.3	34.8	100.4	174.9	94.4	134.6	123.2
Hayden	26	1.0	31.7	92.0	184.0	84.2	134.1	120.1
Natty	29	1.3	33.7	102.6	154.0	93.0	123.5	116.6
Shelby427	24	1.0	34.3	85.6	145.4	100.2	122.8	110.4
Saddle	23	1.0	30.2	119.6	147.1	62.5	104.8	109.7
Esker2020	23	1.0	31.7	-	170.3	109.2	139.7	-
KWS Ocre	20	1.0	32.1	-	-	112.5	-	-
KWS Opaline	22	1.0	33.7	-	-	99.7	-	-
Reins	19	1.0	33.2	-	-	93.8	-	-
Trial Average#	25	1.1	33.4	108.3	169.7	100.7	134.5	128.7
LSD(0.05)†	-	-	0.8	9.3	6.7	5.4	-	-
C.V.%‡	-	-	1.6	5.4	2.8	3.8	-	-

* 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.