



# 2020 South Dakota Oat Variety Trial Results Beresford

Jonathan Kleinjan | SDSU Extension Crop Production Associate  
Melanie Caffé-Tremblé | SDSU Oat Breeder  
Kevin Kirby | Agricultural Research Manager  
Shawn Hawks | Agricultural Research Manager  
Nick Hall | Agricultural Research Manager

**Cooperator:** SDSU Southeast Research Farm, Peter Sexton, manager  
**Location:** 43.043222°, -96.901606°  
**Soil Type:** Egan-Clarno-Tetonka complex, 0-2% slopes  
**Previous crop:** Soybeans  
**Tillage:** Conventional till  
**Row spacing:** 7"  
**Seeding Rate:** 1.2 million PLS/acre  
**Fertilizer:**  
    **-Starter:** 60 lb/acre 30-10-10  
    **-Other:** none  
**Herbicide:**  
    **-Burndown:** NA  
    **-Post:** 1 pt/acre Bronate  
**Fungicide:** none  
**Date seeded:** 4/1/2020  
**Date harvested:** 7/21/2020

Table 1. 2020 oat variety performance trial results (average of 4 replications) at Beresford, 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)	2018 (bu/a)	2019 (bu/a)	2020 (bu/a)	2-year (bu/a)	3-year (bu/a)
Deon	34.5	1.5	33.7	126.6	116.6	111.7	114.2	118.3
Warrior	28.8	1.0	32.2	106.9	114.7	93.2	104.0	104.9
Rushmore	31.5	1.0	35.3	109.0	98.2	105.9	102.0	104.4
Antigo	28.3	1.0	37.3	101.9	104.4	89.9	97.1	98.7
Saddle	26.8	1.0	31.1	95.4	115.3	70.2	92.8	93.7
Natty	31.8	1.5	34.4	83.3	77.5	98.5	88.0	86.4
CS Camden	30.5	1.3	28.8	86.9	68.6	93.5	81.0	83.0
Goliath	39.0	2.5	33.5	74.5	64.8	104.5	84.6	81.2
Hayden	32.0	2.0	34.0	58.9	54.6	92.2	73.4	68.5
Shelby427	31.0	1.3	35.2	64.2	44.2	90.1	67.1	66.2
MN Pearl	31.3	1.0	34.0	-	111.3	113.3	112.3	-
Esker2020	27.3	1.0	31.6	-	-	91.3	-	-
GM2015Y3232	31.8	1.0	29.9	-	-	85.1	-	-
<b>Trial Average#</b>	31.5	1.2	33.8	89.4	89.9	100.5	92.4	90.5
<b>LSD(0.05)†</b>	3.0	0.6	0.8	15.6	13.6	9.5	-	-
<b>C.V.%‡</b>	-	-	1.7	10.6	10.8	6.7	-	-

\* 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.