



# 2020 South Dakota Oat Variety Trial Results Miller

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**Cooperator:** Lee Lichty  
**Location:** 44.419272°, -98.807401°  
**Soil Type:** Glenham-Prosper loams, 1-6% 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:** 224 lb/acre 46-0-0 + 56 lb/acre 21-0-0-24 broadcast preeemerge  
**Herbicide:**  
    **-Burndown:** NR  
    **-Post:** 16 oz acre WideMatch + 12 oz LV6  
**Fungicide:** 5 oz Stratego (applied with herbicide); 6.5 oz Prosaro applied at Feekes 10.5.1 (flowering)  
**Insecticide:** 1.92 oz./acre Grizzly Too applied at Feekes 10.5.1  
**Date seeded:** 4/23/2020  
**Date harvested:** 8/13/2020

Table 1. 2020 oat variety performance trial results (average of 4 replications) at Miller, SD. Entries are sorted by overall 2-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)
CS Camden	39.5	2.8	31.4	121.8	52.6	155.2	103.9	109.9
Hayden	39.8	3.5	33.8	123.8	55.5	132.1	93.8	103.8
Deon	42.5	4.8	32.1	108.3	61.8	136.3	99.0	102.1
Rushmore	40.5	3.0	33.5	102.4	49.3	124.7	87.0	92.1
Goliath	48.8	3.0	33.9	107.1	58.2	108.9	83.6	91.4
Saddle	38.5	2.8	32.4	99.4	31.7	138.3	85.0	89.8
Natty	45.0	2.8	33.8	111.8	31.3	124.5	77.9	89.2
Shelby427	40.5	2.8	32.7	94.0	48.1	122.7	85.4	88.3
Warrior	42.0	3.3	31.1	98.3	41.4	123.1	82.3	87.6
Antigo	38.8	3.3	34.4	79.2	50.6	107.3	78.9	79.0
MN Pearl	45.8	2.5	33.9	-	56.6	139.2	97.9	-
Esker2020	40.0	3.8	31.3	-	-	143.6	-	-
GM2015Y3232	43.8	2.5	31.6	-	-	100.9	-	-
<b>Trial Average#</b>	42.4	3.3	33.0	101.9	43.3	127.9	86.6	93.3
<b>LSD(0.05)†</b>	1.8	0.7	0.9	5.8	7.5	8.5	-	-
<b>C.V.%‡</b>	-	-	1.9	3.9	9.6	4.7	-	-

\* 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.