



2020 South Dakota Oat Variety Trial Results Okaton

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Cooperator: Henry Roghair
Location: 43.892778°, -100.995000°
Soil Type: Promise clay, 3-6% slopes
Previous crop: safflower
Tillage: No-till
Row spacing: 10"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
-**Starter:** 6 gal/acre 10-25-0-5S-.25Z
-**Other:** 25 gal/acre 28-0-0 mid-row banded
Herbicide:
-**Burndown:** not reported
-**Post:** 16 oz/acre WideMatch + 1 oz/acre Stinger
Fungicide: none
Date seeded: 4/22/2020
Date harvested: 7/21/2020

Table 1. 2020 oat variety performance trial results (average of 4 replications) at Okaton, 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)
MN Pearl	not reported	not reported	38.0	no data	109.1	90.0	99.6	no data
Goliath	-	-	36.5	-	108.1	80.9	94.5	-
Rushmore	-	-	38.9	-	101.2	84.5	92.9	-
Shelby427	-	-	38.3	-	92.7	87.7	90.2	-
Deon	-	-	37.2	-	101.7	73.8	87.8	-
Natty	-	-	38.3	-	97.1	70.8	84.0	-
CS Camden	-	-	33.5	-	97.3	67.1	82.2	-
Hayden	-	-	38.3	-	90.1	71.7	80.9	-
Warrior	-	-	37.1	-	89.9	64.6	77.3	-
Antigo	-	-	38.9	-	70.8	73.0	71.9	-
Saddle	-	-	38.3	-	72.1	62.2	67.1	-
Esker2020	-	-	33.8	-	-	81.0	-	-
GM2015Y3232	-	-	37.7	-	-	57.8	-	-
Trial Average#	-	-	37.5	-	92.4	74.4	84.4	-
LSD(0.05)†	-	-	1.4	-	12.5	11.1	-	-
C.V.%‡	-	-	2.6	-	9.2	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.