



2020 South Dakota Oat Variety Trial Results Wall

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Cooperator: Dale Patterson
Location: 44.087778°, -102.328611°
Soil Type: Stanta loam, 2-6% slopes
Previous crop: winter wheat
Tillage: no-till
Row spacing: 10"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
 -Starter: 6 gal/acre 10-25-0-5S-.25Z
 -Other: 40 gal/acre 28-0-0 mid-row banded
Herbicide:
 -Burndown: not reported
 -Post: 16 oz/acre WideMatch
Fungicide: none
Date seeded: 4/23/2020
Date harvested: 8/4/2020

Table 1. 2020 oat variety performance trial results (average of 4 replications) at Wall, 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)
Goliath	not reported	not reported	36.0	59.7	140.1	65.5	102.8	88.4
CS Camden	reported	reported	32.4	64.3	118.5	62.0	90.3	81.6
Rushmore	-	-	33.9	60.1	119.1	59.6	89.3	79.6
Hayden	-	-	34.3	70.5	106.0	59.5	82.8	78.7
Deon	-	-	35.5	64.9	106.0	64.8	85.4	78.6
Natty	-	-	36.0	56.7	104.6	65.7	85.2	75.7
Warrior	-	-	33.4	50.9	108.2	59.3	83.8	72.8
Shelby427	-	-	34.7	45.3	90.1	64.7	77.4	66.7
Antigo	-	-	35.5	50.9	71.8	62.1	66.9	61.6
Saddle	-	-	32.6	49.0	62.2	63.7	62.9	58.3
MN Pearl	-	-	34.2	-	132.2	60.1	96.2	-
Esker2020	-	-	33.9	-	-	74.6	-	-
GM2015Y3232	-	-	32.4	-	-	59.9	-	-
Trial Average#	-	-	34.5	59.7	107.0	64.7	83.9	74.2
LSD(0.05)†	-	-	1.3	9.4	18.5	7.7	-	-
C.V.%‡	-	-	2.6	11.1	12.2	8.4	-	-

* 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.