SDSU Extension
agronomy
South Dakota Agricultural Experiment Station Research at SDSU
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SOUTH DAKOTA STATE UNIVERSITY®
AGRONOMY, HORTICULTURE, & PLANT SCIENCE DEPARTMENT

2020 South Dakota Oat Variety Trial Results South Shore

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Cooperator:	SDSU Northeast Research Farm, Al Heuer, manager
Location:	45.105896°, -97.100218°
Soil Type:	Kranzburg-Brookings silty clay loams, 0-2% slopes
Previous crop:	soybeans
Tillage:	Conventional
Row spacing:	8"
Seeding Rate:	1.2 million PLS/acre
Fertilizer:	
-Starter:	90 lb/acre 30-10-10
-Other:	none
Herbicide:	
-Burndown:	none
-Post:	1.5 pt/acre Bronate
Fungicide:	none
Date seeded:	4/27/2020
Date harvested:	8/18/2020

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Table 1. 2020 oat variety performance trial results (average of 4 replications) at South Shore, 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)
Rushmore	39.3	4.5	36.7	157.3	146.4	127.3	136.9	143.7
Deon	39.5	4.0	36.3	140.8	144.1	142.2	143.2	142.4
CS Camden	36.5	4.5	32.3	160.6	131.0	134.3	132.6	142.0
Goliath	44.3	5.0	36.2	151.9	119.4	136.4	127.9	135.9
Saddle	33.0	3.5	33.4	146.0	129.5	127.6	128.6	134.4
Warrior	35.0	3.3	34.0	135.7	125.2	129.1	127.1	130.0
Natty	37.5	5.0	36.5	148.8	104.0	124.4	114.2	125.7
Antigo	32.0	5.0	37.8	138.1	133.4	101.5	117.4	124.3
Hayden	37.5	5.0	35.7	145.0	94.3	120.3	107.3	119.9
Shelby427	38.8	5.0	36.4	130.1	87.2	90.3	88.8	102.5
MN Pearl	37.8	4.5	35.4	-	138.2	146.8	142.5	-
Esker2020	35.8	5.0	32.5	-	-	127.4	-	-
GM2015Y3232	36.0	4.5	35.7	-	-	109.0	-	-
Trial Average#	38	4.4	35.9	141.4	110.7	130.6	124.2	130.1
LSD(0.05)†	1.8	0.5	0.9	9.0	9.6	9.6	-	-
C.V.%‡	-	-	1.8	4.6	5.9	5.2	-	-

* Lodging score: 1, perfectly standing; to 5, completely flat.
# Trial averages may include values from experimental lines that are not reported.
† Value required (≥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.