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 Selby

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Cooperator:	Tom Fiedler
Location:	45.501127°, -100.016598°
Soil Type:	Highmore silt loam, cool, 0-2% slopes
Previous crop:	soybeans
Tillage:	no-till
Row spacing:	8"
Seeding Rate:	1.2 million PLS/acre
Fertilizer:	
-Starter:	80 lb/acre 30-10-10
-Other:	315 lb/acre 46-0-0; 50 lb/acre 11-52-0 preplant broadcast
Herbicide:	
-Burndown:	none
-Post:	1.5 pt/acre Bronate Advanced
Fungicide:	6.5 oz/acre Prosaro
Date seeded:	4/22/2020
Date harvested:	8/17/2020

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Table 1. 2020 oat variety performance trial results (average of 4 replications) at Selby, 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)
CS Camden	30.5	3.0	33.4	190.5	no	144.5	no	167.5
Rushmore	32.0	3.0	37.5	177.6	data	134.5	data	156.1
Hayden	34.0	3.3	38.4	178.2		129.9	-	154.0
Deon	35.5	3.3	37.2	176.8	-	130.4	-	153.6
Goliath	37.8	3.5	37.7	166.2	-	127.8	-	147.0
Natty	34.5	3.5	37.9	167.6	-	123.8	-	145.7
Warrior	31.5	2.5	35.4	167.1	-	102.5	-	134.8
Saddle	29.8	1.0	35.2	146.0	-	118.1	-	132.0
Shelby427	33.0	2.8	37.6	148.4	-	108.0	-	128.2
Antigo	29.3	2.3	38.5	131.9	-	90.8	-	111.4
MN Pearl	32.3	2.8	36.2	-	-	128.0	-	-
Esker2020	31.8	2.3	34.3	-	-	124.1	-	-
GM2015Y3232	31.3	3.0	35.6	-	-	119.6	-	-
Trial Average#	33.0	2.9	37.2	165.6	-	125.5	-	143.0
LSD(0.05)†	1.3	0.6	0.8	9.4	-	6.6	-	-
C.V.%‡	2.7	-	1.5	4.0	-	3.8	-	-

* 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.