2022 South Dakota Oat Variety Trial Results Winner

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Cooperator:	Jorgenson Land & Cattle
Location:	43.535163°, -99.841513°
Soil Type:	Millboro silty clay, 0-3% slopes
Previous crop:	corn
Tillage:	no-till
Row spacing:	7"
Seeding Rate:	1.2 million PLS/acre
Fertilizer:	
-Starter:	90 lb/acre 30-10-10
-Other:	none
Herbicide:	
-Burndown:	NR
-Post:	1.5 pt/acre Bison
Fungicide:	none
Date seeded:	4/11/2022
Date harvested:	7/22/2022
Notes:	Severe grasshopper damage.

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Table 1. 2022 oat variety performance trial results (average of 4 replications) at Winner, SD. Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of the trial are bold and shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs/bu)	2020 (bu/a)	2021 (bu/a)	2022 (bu/a)	2-year (bu/a)	3-year (bu/a)
Hayden	36	1.0	37.9	**129.3**	33.9	**57.9**	**45.9**	**73.7**
MN Pearl	32	1.0	35.6	**129.3**	31.1	46.8	39.0	**68.0**
Goliath	39	1.0	37.5	**129.3**	**36.0**	48.4	**42.2**	**67.6**
Shelby427	34	1.0	38.6	**129.3**	**34.6**	48.8	41.7	**67.3**
CS Camden	33	1.0	37.7	111.1	**34.0**	**54.1**	**44.1**	66.4
Esker2020	34	1.0	35.2	110.1	28.2	**57.7**	**43.0**	65.3
Deon	35	1.0	36.8	118.2	**36.1**	32.4	34.2	62.2
SD-Buffalo	36	1.0	36.8	113.0	29.8	43.6	36.7	62.1
Warrior	31	1.0	38.4	113.7	25.2	45.4	35.3	61.4
Rushmore	35	1.0	36.2	115.2	27.4	32.9	30.2	58.5
Saddle	32	1.0	39.2	104.5	20.0	50.6	35.3	58.4
Reins	28	1.0	37.8	-	26.6	**54.1**	40.4	-
Trial Average#	34	1.0	37.3	116.2	30.2	47.7	39.0	64.6
LSD(0.05)†	-	-	1.5	7.2	3.6	7.0	-	-
C.V.%‡	-	-	-	4.4	7.8	10.8	-	-

* 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.