

2026 South Dakota Oat Variety Trial Results - Regional Summaries

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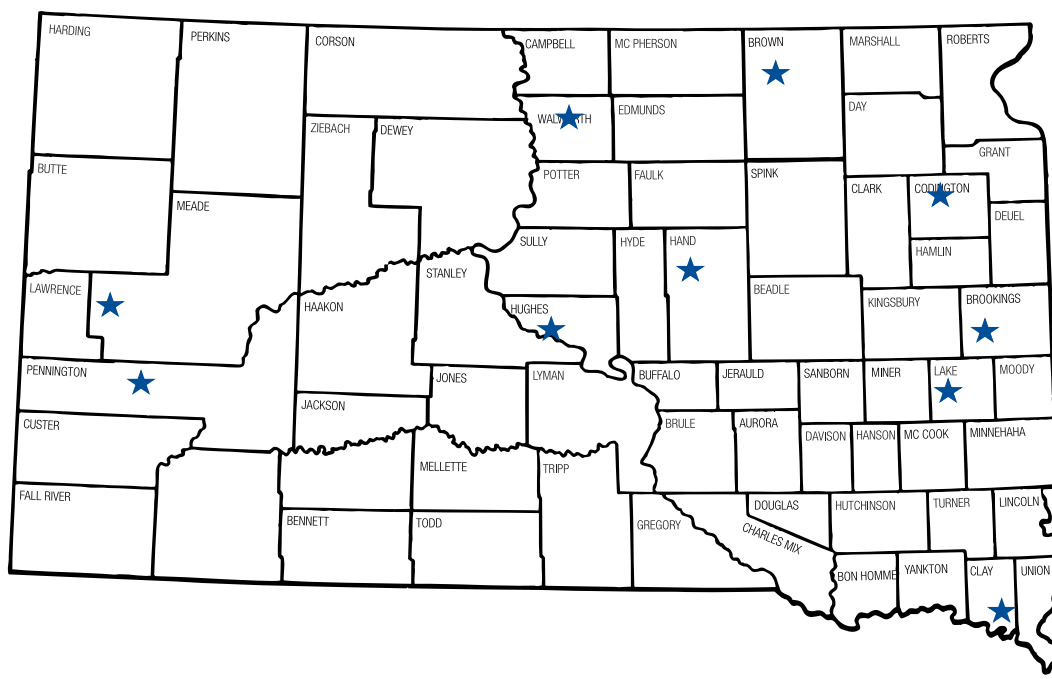
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Eastern trial locations: Beresford, Madison, South Shore, Volga

Central trial locations: Bath, Pierre, Miller, Selby

Western trial locations: Sturgis, Wall

Individual trial location results can be accessed online at: <https://extension.sdstate.edu/oat-variety-trial-results>



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2026 South Dakota Oat Variety Trial Results Variety List

Table 1. List of oat varieties tested in 2026 along with origin, agronomic, and grain quality characteristics.

Variety	Testing and Origin		Agronomic Characteristics			Grain Quality§		Disease Ratings¶		
	Years tested in SD trials	Origin†-Year	Relative Heading (days)	Height (inches)	2026 Lodging Score‡	Grain Color	2026 Test Wt. (lb/bu)	Smut	Crown Rust	BYDV
CDC ENDURE	5	MS-23	8	40	2	White	31.6	R	4	6
CS CAMDEN	5+	MS-16	6	38	3	White	31.3	MR	5	7
DEON	5+	MN-13	6	41	3	Yellow	33.1	R	5	5
GMI2021Y2032	1	GM-Exp	3	33	3	White	32.0	-	-	-
GOLIATH	5+	SD-12	7	45	4	White	33.7	MR	7	4
HAYDEN	5+	SD-14	5	40	3	White	34.6	R	8	2
MN-AMBER	1	MN-25	4	38	3	White	36.5	-	-	-
MN-PEARL	5+	MN-18	5	39	3	White	32.4	R	9	-
ND MILLER	1	MN-18	7	39	3	White	34.2	-	-	-
ND WILLIAMS	1	ND-25	7	45	3	White	33.8	-	-	-
RUSHMORE	5+	SD-19	0	37	4	White	35.0	MR	8	2
SD BUFFALO	5+	SD-21	2	40	3	White	34.5	R	7	3
SD MOMENTUM	5+	SD-23	7	47	3	White	35.4	R	1	3
SD RANGER	5	SD-24	2	39	3	White	34.4	R	4	4
SD SOLDIER	3	SD-25	0	41	3	White	36.1	R	-	3
SD TITAN	5+	SD-23	6	44	3	White	34.2	MR	1	3
SHELBY427	5+	SD-09	0	39	3	White	35.5	R	8	3
WARRIOR	5+	SD-18	1	37	2	White	33.4	R	7	4
Trial Average¥	-	-	-	40	2.9	-	34.0	-	-	-
† MN, Minnesota; MS, Meridian Seeds; SD, South Dakota; WI, Wisconsin; GM, General Mills, ALS (Albert Lea Seed) - (Year of Release) ‡ Lodging scores: 1, standing perfectly to 5, completely flat § Grain protein content and test weight statewide averages ¶ Disease ratings: 1, most resistant to 9, most susceptible (or traditional ratings MR, MS, etc.) ¥ Trial averages may include values from experimental lines that are not reported.										



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2026 South Dakota Oat Variety Trial Results Quality Characteristics

Table 2. Grain quality and milling characteristics.

Variety	% Plump	% Mid	% Thin	1000 Kernel Weight (g)	Groat %	NIR groat protein %	NIR groat beta- glucan %	NIR groat fat %
CDC ENDURE	53.6	39.8	6.5	31.0	72.8	16.6	5.5	6.2
CS CAMDEN	40.0	52.1	7.8	31.6	71.1	18.0	5.4	6.7
DEON	26.5	63.0	10.4	30.8	73.0	17.6	5.1	6.9
GMI2021Y2032	36.9	56.4	6.7	31.5	72.9	17.7	5.4	7.0
GOLIATH	22.8	64.9	12.2	28.7	73.9	17.2	5.0	6.7
HAYDEN	22.9	66.4	10.6	28.9	70.5	16.4	5.1	7.5
MN-AMBER	41.1	51.5	7.3	29.1	75.8	17.5	5.3	7.9
MN-PEARL	54.5	39.1	6.4	31.8	72.2	17.2	5.2	7.4
ND MILLER	69.9	26.1	4.0	33.5	69.8	17.6	5.2	7.2
ND WILLIAMS	66.1	30.4	3.6	35.7	72.1	17.8	5.0	7.4
RUSHMORE	34.4	56.6	9.0	30.1	72.4	16.8	4.8	6.6
SD BUFFALO	24.1	67.8	8.0	31.0	71.8	17.2	4.9	7.7
SD MOMENTUM	42.4	51.9	5.7	31.9	73.3	16.5	5.1	7.7
SD RANGER	61.2	34.9	3.8	30.8	72.9	16.0	4.7	6.1
SD SOLDIER	21.7	65.2	13.0	30.3	74.7	16.5	5.2	7.3
SD TITAN	29.4	63.5	7.0	30.3	72.2	17.5	4.7	6.3
SHELBY427	29.0	62.7	8.2	28.8	73.0	17.4	4.8	7.0
WARRIOR	26.0	66.6	7.2	30.4	74.1	17.9	5.2	6.9
Trial Average	39.0	53.3	7.6	30.9	72.7	17.2	5.08	7.0
LSD(0.05)†	-	-	-	-	-	-	-	-
C.V.%‡	-	-	-	-	-	-	-	-

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



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2026 South Dakota Oat Variety Trial Results Eastern Summary

Table 3. 2024-2026 oat variety performance trial results for testing sites in eastern South Dakota. Varieties yielding in the top 1/3 of the trial are bold and shaded light blue.

Variety	2024	2025	2026		2-year		3-year	
	Yield (bu/a)	Yield (bu/a)	Yield (bu/a)	Test Wt (lbs/bu)	Yield (bu/a)	Test Wt (lbs/bu)	Yield (bu/a)	Test Wt (lbs/bu)
SD SOLDIER	131.4	117.3	155.4	36.1	136.4	35.5	134.7	35.4
SD TITAN	129.5	111.0	147.0	34.6	129.0	33.1	129.2	33.1
SD RANGER	120.1	109.1	149.0	33.6	129.1	32.9	126.1	32.7
SD MOMENTUM	126.7	110.3	135.7	35.3	123.0	34.0	124.2	33.9
CDC ENDURE	108.8	95.5	146.5	31.8	121.0	30.9	116.9	30.6
WARRIOR	95.2	106.0	138.9	32.7	122.5	32.3	113.4	32.2
DEON	103.3	102.9	130.5	32.9	116.7	32.4	112.2	32.1
CS CAMDEN	96.3	100.2	133.6	30.2	116.9	30.4	110.0	28.5
SD BUFFALO	90.8	89.0	133.0	33.1	111.0	32.0	104.3	31.4
GOLIATH	101.5	79.9	129.0	33.6	104.5	32.0	103.5	31.6
HAYDEN	85.3	95.0	127.6	33.5	111.3	33.2	102.7	32.4
SHELBY427	78.7	87.6	122.2	34.7	104.9	34.3	96.2	33.8
RUSHMORE	78.3	82.2	117.2	33.5	99.7	32.4	92.6	32.1
MN-PEARL	68.8	82.0	120.9	31.2	101.4	30.1	90.6	28.3
GMI2021Y2032	-	-	138.0	31.3	-	-	-	-
MN-AMBER	-	-	127.7	36.2	-	-	-	-
ND MILLER	-	-	136.1	34.6	-	-	-	-
ND WILLIAMS	-	-	138.9	33.8	-	-	-	-
Trial Average#	103.8	103.2	140.3	34.0	121.7	33.1	115.8	32.7
LSD(0.05)†	15.1	14.9	17.1	1.7	14.4	1.6	1.9	1.9
C.V.%‡	10.2	9.2	4.9	2.7	7.0	2.6	2.8	2.8

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.



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2026 South Dakota Oat Variety Trial Results Central Summary

Table 4. 2024-2026 oat variety performance trial results for testing sites in central South Dakota. Varieties yielding in the top 1/3 of the trial are bold and shaded light blue.

Variety	2024	2025	2026		2-year		3-year	
	Yield (bu/a)	Yield (bu/a)	Yield (bu/a)	Test Wt (lbs/bu)	Yield (bu/a)	Test Wt (lbs/bu)	Yield (bu/a)	Test Wt (lbs/bu)
CS CAMDEN	154.9	139	130.1	31.5	134.5	32.2	141.3	32.3
CDC ENDURE	152.3	139	131.8	31.5	135.2	31.0	140.9	32.1
SD RANGER	144.8	135.0	133.1	35.0	134.1	34.4	137.6	35.1
SD BUFFALO	152.2	128	132.6	35.2	130.3	34.5	137.6	35.0
SD MOMENTUM	144.2	128	127.5	35.7	127.7	34.7	133.2	35.4
DEON	141.6	132	125.1	33.6	128.7	33.2	133.0	34.0
SD SOLDIER	129.1	135	129.9	36.3	132.4	35.6	131.3	36.3
HAYDEN	131.0	124	134.7	35.9	129.3	35.4	129.8	35.6
MN-PEARL	142.9	123	121.8	32.9	122.2	32.4	129.1	33.2
SD TITAN	137.7	123	123.8	34.0	123.4	33.8	128.2	34.2
RUSHMORE	136.4	117	122.1	36.4	119.7	35.6	125.3	35.9
WARRIOR	130.8	118	127.2	34.3	122.3	33.7	125.2	34.3
GOLIATH	137.4	113	110.9	34.2	111.9	34.0	120.4	34.6
SHELBY427	126.5	109	113.3	36.6	111.1	35.7	116.2	36.1
GMI2021Y2032	-	-	135.7	32.3	-	-	-	-
MN-AMBER	-	-	124.1	37.5	-	-	-	-
ND MILLER	-	-	127.7	34.5	-	-	-	-
ND WILLIAMS	-	-	129.4	33.9	-	-	-	-
Trial Average#	140.7	127.4	128.4	34.8	128.4	34.1	131.1	34.5
LSD(0.05)†	6.5	11.7	11.1	1.2	11.1	1.3	14.6	1.3
C.V.%‡	5.8	6.4	6.9	2.8	6.9	2.9	8.8	2.9
# 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.								



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2026 South Dakota Oat Variety Trial Results Western Summary

Table 5. 2024-2026 oat variety performance trial results for testing sites in western South Dakota. Varieties yielding in the top 1/3 of the trial are bold and shaded light blue.

Variety	2023	2024	2025		2-year		3-year	
	Yield (bu/a)	Yield (bu/a)	Yield (bu/a)	Test Wt (lbs/bu)	Yield (bu/a)	Test Wt (lbs/bu)	Yield (bu/a)	Test Wt (lbs/bu)§
CS CAMDEN	154.9	139	130.1	31.5	134.5	32.2	141.3	32.3
CDC ENDURE	152.3	139	131.8	31.5	135.2	31.0	140.9	32.1
SD RANGER	144.8	135.0	133.1	35.0	134.1	34.4	137.6	35.1
SD BUFFALO	152.2	128	132.6	35.2	130.3	34.5	137.6	35.0
SD MOMENTUM	144.2	128	127.5	35.7	127.7	34.7	133.2	35.4
DEON	141.6	132	125.1	33.6	128.7	33.2	133.0	34.0
SD SOLDIER	129.1	135	129.9	36.3	132.4	35.6	131.3	36.3
HAYDEN	131.0	124	134.7	35.9	129.3	35.4	129.8	35.6
MN-PEARL	142.9	123	121.8	32.9	122.2	32.4	129.1	33.2
SD TITAN	137.7	123	123.8	34.0	123.4	33.8	128.2	34.2
RUSHMORE	136.4	117	122.1	36.4	119.7	35.6	125.3	35.9
WARRIOR	130.8	118	127.2	34.3	122.3	33.7	125.2	34.3
GOLIATH	137.4	113	110.9	34.2	111.9	34.0	120.4	34.6
SHELBY427	126.5	109	113.3	36.6	111.1	35.7	116.2	36.1
GMI2021Y2032	-	-	135.7	32.3	-	-	-	-
MN-AMBER	-	-	124.1	37.5	-	-	-	-
ND MILLER	-	-	127.7	34.5	-	-	-	-
ND WILLIAMS	-	-	129.4	33.9	-	-	-	-
Trial Average#	140.7	127.4	128.4	34.8	128.4	34.1	131.1	34.5
LSD(0.05)†	6.5	11.7	11.1	1.2	11.1	1.3	14.6	1.3
C.V.%‡	5.8	6.4	6.9	2.8	6.9	2.9	8.8	2.9
# 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. § average of 2023 and 2024								