

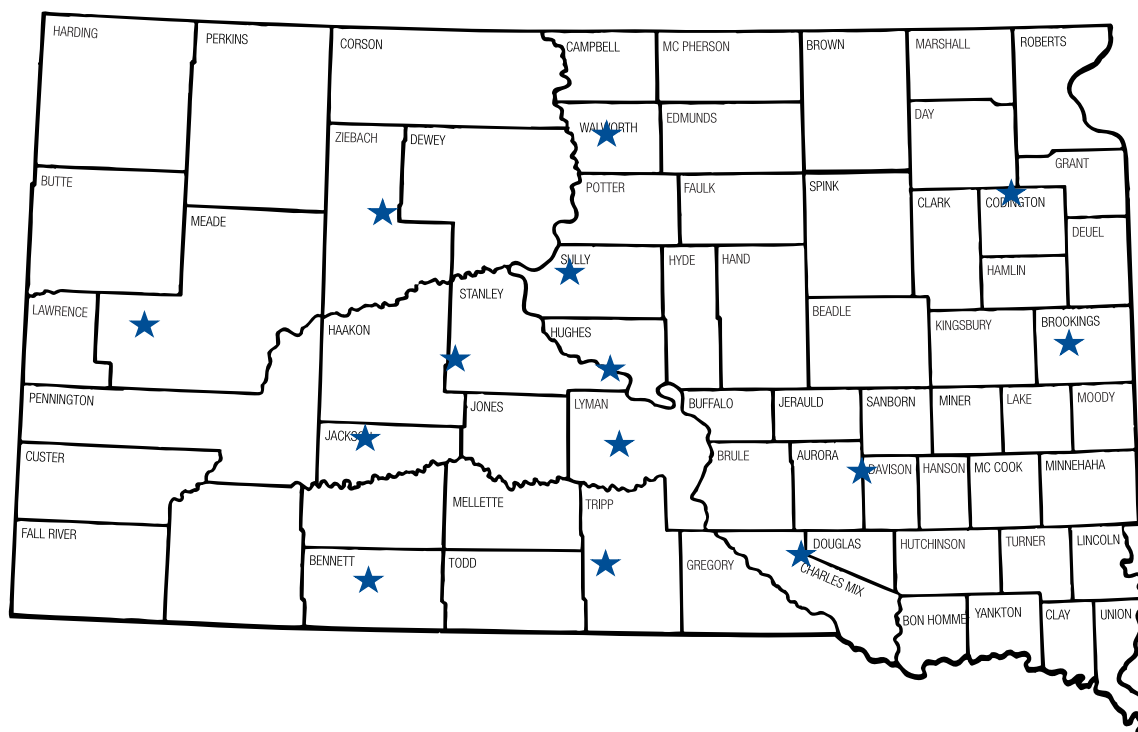


**SOUTH DAKOTA
STATE UNIVERSITY**
College of Agriculture, Food
and Environmental Sciences

South Dakota State University Extension
South Dakota Agricultural Experiment Station at SDSU

2024 South Dakota Winter Wheat Variety Trial Results Regional Summaries

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Eastern Trial Locations: Brookings, Mt. Vernon, Platte, and South Shore

Central Trial Locations: Hayes, Onida, Pierre, Selby, Vivian, and Winner

Western Trial Locations: Faith, Sturgis, and Wall

Individual trial location results can be accessed online at: extension.sdstate.edu/winter-wheat-variety-trial-results

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2024 South Dakota Winter Wheat Variety Trial Results Eastern Summary

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Table 1. 2022-2024 winter wheat variety performance trial results for testing sites in eastern South Dakota. Varieties ranking in the top 1/3 of each trial category are bolded and shaded light blue.

Variety	2022	2023	2024			2-year			3-year		
	Yield (bu/a)	Yield (bu/a)	Yield (bu/a)	Test Wt (lbs)	Protein %	Yield (bu/a)	Test Wt (lbs)	Protein %	Yield (bu/a)	Test Wt (lbs)	Protein %
SD Andes	70.1	71.8	85.4	59.3	12.9	79.6	59.5	13.1	72.6	59.3	13.2
Winner	68.2	69.0	86.0	58.3	13.0	79.3	58.2	13.3	72.2	58.3	13.5
SD Midland	65.6	68.2	84.3	58.2	12.6	77.3	58.2	12.9	71.6	58.5	13.2
Draper	61.9	65.1	84.7	57.8	13.4	76.1	57.7	13.5	70.2	57.7	13.7
WB4510CLP	68.2	69.8	86.2	58.8	12.8	79.5	59.2	12.9	70.0	58.9	13.2
SD Pheasant	72.3	74.7	71.9	56.6	12.2	72.1	57.6	12.9	69.6	58.3	13.3
CP7869	60.7	62.8	83.8	57.9	13.2	75.1	57.4	13.4	69.3	57.9	13.3
WB4422	66.4	68.2	76.1	56.6	13.3	72.5	57.3	13.7	69.2	58.1	13.9
CP7017AX	62.3	63.8	76.7	57.5	12.6	71.3	57.3	12.8	68.1	57.6	12.8
WB4309	65.7	67.6	74.6	56.1	14.2	71.3	56.2	14.2	66.8	57.0	14.0
CP7266AX	62.6	63.2	80.7	57.4	13.3	73.9	57.4	13.5	66.5	57.6	13.5
Byrd CL Plus	65.5	67.5	74.2	56.8	12.5	70.9	57.3	12.8	66.4	57.3	12.9
MS Maverick	64.0	66.6	76.5	57.9	13.1	71.8	58.0	13.3	66.2	58.0	13.6
AP Clair	63.1	64.5	72.4	56.9	12.7	68.9	57.0	13.2	65.8	57.7	13.4
LCS Helix AX	60.2	62.1	73.8	57.9	12.9	68.7	58.1	13.1	65.6	58.4	13.2
SY Wolverine	61.7	64.7	72.5	55.5	12.9	68.4	56.1	13.2	65.4	57.1	13.4
CP7909	64.3	65.9	71.9	56.9	12.6	69.0	57.1	12.8	65.3	58.1	13.0
Crescent AX	60.1	60.9	74.0	57.7	12.8	68.8	57.6	13.1	64.9	58.0	13.2
Ideal	61.0	63.0	72.5	57.1	12.6	68.2	57.4	12.9	64.8	58.0	13.3
AP Bigfoot	56.6	58.1	71.7	56.4	12.6	66.0	56.4	13.1	64.2	57.2	13.2
LCS Chrome	59.9	60.9	72.5	57.3	13.6	67.8	57.6	13.8	62.9	57.8	14.1
Kivari AX	63.6	65.9	68.4	55.0	12.2	66.6	55.9	12.5	62.2	56.3	12.5
Expedition	55.8	56.5	64.3	56.1	12.7	61.1	56.6	13.3	59.7	57.5	13.8
MS Sundown	59.3	61.0	81.4	58.3	12.8	73.1	58.1	13.0	-	-	-
SY Wolf	61.8	63.9	68.9	55.8	13.0	66.2	56.3	13.4	-	-	-
LCS Warbird AX	-	-	84.7	58.9	13.5	-	-	-	-	-	-
AP 24AX	-	-	83.3	56.9	12.6	-	-	-	-	-	-
LCS Julep	59.5	-	74.1	57.8	13.2	-	-	-	-	-	-
LCS Missile	-	-	54.4	50.0	14.3	-	-	-	-	-	-
LCS Jet	-	-	53.6	50.5	14.1	-	-	-	-	-	-
Trial Average#	59.8	66.0	74.6	56.6	12.9	71.5	57.5	13.2	66.9	57.9	13.4
LSD(0.05)†	6.2	4.0	9.8	1.7	0.5	6.2	1.2	0.5	4.8	0.9	0.4
C.V.%‡	4.6	7.6	6.7	1.4	3.2	6.9	1.7	3.2	6.4	1.6	3.3

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.

Note: Eastern trial sites include Brookings, Mt. Vernon, Platte and South Shore.



2024 South Dakota Winter Wheat Variety Trial Results Central Summary

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Table 2 2022-2024 winter wheat variety performance trial results for testing sites in central South Dakota. Varieties ranking in the top 1/3 of each trial category are bolded and shaded light blue.

Variety	2022	2023	2024			2-year			3-year		
	Yield (bu/a)	Yield (bu/a)	Yield (bu/a)	Test Wt (lbs)	Protein %	Yield (bu/a)	Test Wt (lbs)	Protein %	Yield (bu/a)	Test Wt (lbs)	Protein %
WB4422	74.2	56.4	87.0	62.0	11.9	74.8	61.8	12.7	74.6	61.2	13.4
SD Andes	70.4	57.3	86.5	63.0	12.0	74.8	62.5	12.5	73.2	61.6	13.1
SD Pheasant	71.2	60.8	83.0	61.0	11.8	74.1	61.3	12.6	73.0	60.5	13.3
SD Midland	67.2	59.8	86.6	61.9	11.7	75.9	61.6	12.1	72.6	60.8	13.0
WB4309	69.4	54.5	85.9	61.1	12.3	73.4	60.4	12.8	71.9	59.7	13.3
CP7017AX	71.4	53.2	84.0	60.8	11.6	71.6	60.5	12.1	71.5	60.0	12.6
Winner	64.7	56.1	87.9	61.7	12.0	75.2	61.3	12.7	71.2	60.5	13.3
Draper	68.0	54.5	84.8	60.7	12.3	72.7	60.5	12.9	70.9	59.6	13.4
Byrd CL Plus	66.6	53.4	86.9	60.7	11.6	73.5	60.5	12.1	70.9	59.5	12.6
SY Wolverine	71.3	54.6	80.7	61.0	11.5	70.3	60.7	12.2	70.7	60.3	12.9
MS Maverick	64.8	57.1	84.1	61.8	12.3	73.3	61.6	13.0	70.1	60.5	13.4
LCS Helix AX	69.5	51.5	83.0	61.6	11.9	70.4	61.3	12.5	70.1	60.9	12.9
AP Clair	69.8	49.6	83.5	62.0	11.7	69.9	61.3	12.5	69.9	60.6	13.1
Kivari AX	65.5	53.7	83.2	60.0	10.8	71.4	60.4	11.5	69.2	59.6	11.9
CP7869	64.0	53.3	84.6	61.3	11.9	72.1	61.0	12.4	69.1	60.3	13.0
CP7909	69.0	51.0	79.9	60.6	11.6	68.4	60.4	12.2	68.6	59.8	12.7
AP Bigfoot	68.3	50.1	81.0	61.2	12.0	68.6	60.6	12.6	68.5	59.9	13.1
Ideal	63.7	57.9	79.9	61.2	11.9	71.1	61.3	12.4	68.4	60.6	13.1
Crescent AX	68.6	48.5	81.0	61.6	11.5	68.0	61.1	12.3	68.2	60.4	12.7
CP7266AX	62.7	50.0	85.6	60.7	12.0	71.3	60.5	12.7	68.1	59.7	12.9
LCS Chrome	64.2	54.5	80.3	61.4	12.6	70.0	61.3	13.3	67.8	60.1	13.9
WB4510CLP	58.6	55.0	81.2	62.7	11.8	70.7	62.8	12.5	66.2	61.6	13.1
Expedition	63.2	48.8	75.8	61.3	12.2	65.0	61.3	13.0	64.3	60.5	13.6
MS Sundown	-	52.2	83.1	61.3	12.1	70.8	60.8	12.6	-	-	-
SY Wolf	-	51.9	79.6	61.6	12.3	68.5	61.3	12.9	-	-	-
AP 24AX	-	-	93.6	60.7	11.4	-	-	-	-	-	-
LCS Warbird AX	-	-	85.5	61.8	12.2	-	-	-	-	-	-
LCS Julep	67.1	-	84.9	62.2	12.3	-	-	-	-	-	-
LCS Jet	-	-	70.7	58.7	12.9	-	-	-	-	-	-
LCS Missile	-	-	65.5	58.0	13.1	-	-	-	-	-	-
Trial Average#	66.5	54.1	82.7	61.0	11.9	71.8	61.2	12.6	70.0	60.4	13.1
LSD(0.05)†	6.6	4.7	6.4	1.0	0.5	4.1	0.6	0.3	3.7	0.6	0.3
C.V.%‡	7.8	9.7	8.2	1.1	4.9	8.2	1.1	4.1	8.1	1.4	3.8

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.

Note: Central trial sites include Hayes, Onida, Pierre, Selby, Vivian and Winner.



2024 South Dakota Winter Wheat Variety Trial Results Western Summary

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Table 3. 2022-2024 winter wheat variety performance trial results for testing sites in western South Dakota. Varieties ranking in the top 1/3 of each trial category are bolded and shaded light blue.

Variety	2022	2023	2024			2-year			3-year		
	Yield (bu/a)	Yield (bu/a)	Yield (bu/a)	Test Wt (lbs)	Protein %	Yield (bu/a)	Test Wt (lbs)	Protein %	Yield (bu/a)	Test Wt (lbs)	Protein %
Kivari AX	49.2	72.7	79.6	58.9	10.1	76.9	58.5	11.0	64.6	58.1	11.9
SD Andes	45.8	84.6	74.2	60.8	11.3	78.4	59.8	12.1	64.0	59.2	12.8
Byrd CL Plus	46.0	68.1	82.3	59.4	10.6	76.6	58.4	11.5	63.0	58.0	12.5
MS Maverick	45.9	70.0	80.7	60.1	11.4	76.4	58.8	12.8	62.8	58.7	13.3
WB4422	44.6	71.6	79.7	60.4	11.4	76.5	59.4	12.9	62.3	59.2	13.7
CP7017AX	45.7	65.1	82.2	60.1	10.4	75.3	59.3	11.6	62.1	59.0	12.4
Draper	46.5	71.9	74.7	59.2	11.5	73.6	58.5	12.6	61.6	58.1	13.3
SD Midland	44.7	72.6	76.5	59.6	11.3	75.0	58.7	12.1	61.5	58.4	12.9
SD Pheasant	42.7	79.6	73.8	59.3	11.3	76.2	58.5	12.6	61.3	58.1	13.4
Winner	43.5	74.3	75.4	59.9	11.3	75.0	59.2	12.4	61.0	58.7	13.1
SY Wolverine	44.4	69.1	76.8	59.1	10.9	73.7	58.6	12.2	60.7	58.7	13.0
CP7869	41.9	72.7	77.4	59.9	11.5	75.6	59.2	12.3	60.6	58.7	13.1
WB4510CLP	39.2	80.5	74.9	60.8	10.9	77.2	60.4	11.9	60.3	59.8	13.0
Ideal	44.7	68.1	75.8	59.5	11.0	72.8	58.6	12.2	60.3	58.8	13.0
CP7909	44.2	60.1	79.3	60.4	10.9	71.5	59.1	11.8	59.4	58.9	12.9
LCS Helix AX	41.6	67.9	74.5	60.0	11.2	71.9	59.5	12.2	58.4	59.0	12.9
LCS Chrome	42.2	68.7	70.2	59.7	12.1	69.6	59.0	13.0	57.5	58.8	13.7
AP Bigfoot	39.3	62.5	77.0	60.3	11.0	71.2	59.5	12.1	57.0	59.3	13.2
WB4309	40.6	64.8	72.3	59.2	11.8	69.3	58.1	12.8	56.6	57.9	13.6
CP7266AX	40.3	60.8	75.4	58.9	11.3	69.5	58.2	12.2	56.5	57.9	13.0
Crescent AX	38.3	56.2	77.5	59.6	10.9	69.0	59.0	12.2	55.3	58.5	13.0
Expedition	41.0	56.0	70.7	60.0	11.5	64.8	58.9	12.7	54.3	58.6	13.5
AP Clair	41.9	46.9	70.5	57.9	11.5	61.0	57.2	12.5	52.5	57.8	13.3
MS Sundown	-	56.7	78.4	59.9	11.4	69.7	59.0	12.4	-	-	-
SY Wolf	-	51.7	61.5	57.6	12.1	57.5	56.9	13.1	-	-	-
AP 24AX	-	-	82.1	58.2	10.4	-	-	-	-	-	-
LCS Warbird AX	-	-	78.1	60.1	11.3	-	-	-	-	-	-
LCS Julep	40.2	-	71.5	60.1	11.8	-	-	-	-	-	-
LCS Missile	-	-	49.6	41.0	12.0	-	-	-	-	-	-
LCS Jet	-	-	46.2	33.4	11.9	-	-	-	-	-	-
Trial Average#	45.8	67.0	74.8	58.5	11.2	72.4	58.8	12.3	59.6	58.6	13.1
LSD(0.05)†	2.9	16.1	11.3	8.9	0.6	9.4	1.4	0.5	5.3	1.1	0.4
C.V.%‡	10.3	9.2	9.9	7.2	3.4	9.4	2.3	3.1	10.3	2.2	4.1

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.

Note: Western trial sites include Faith, Sturgis and Wall.