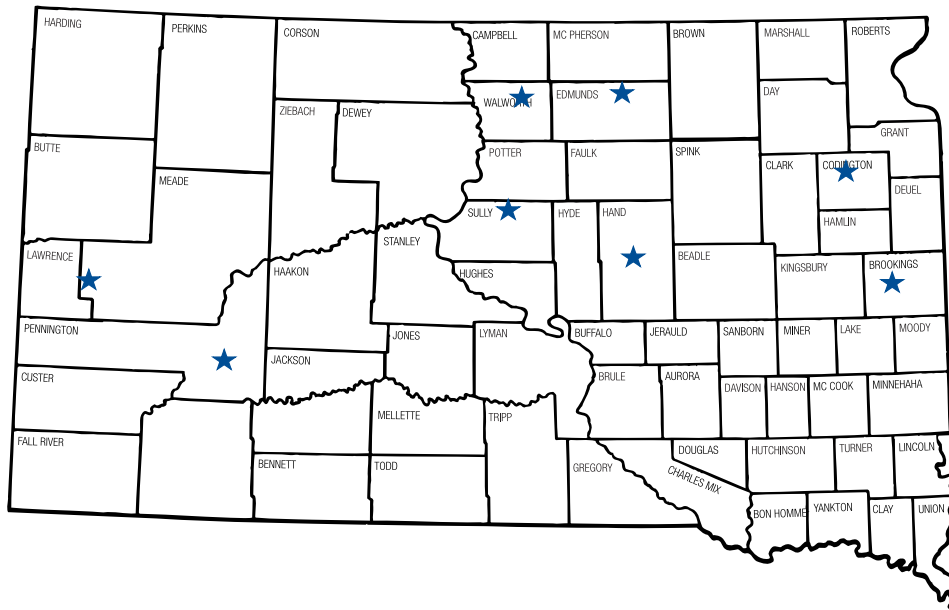




2024 South Dakota Spring Wheat Variety Trial Results Regional Summaries

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Eastern trial locations: South Shore, Volga

Central trial locations: Agar, Miller, Mina, Selby

Western trial locations: Sturgis, Wall

Eastern trial locations near Frankfurt was not harvest because of hail.

Eastern trail location near Claire City was not planted because of exceedingly wet conditions.

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

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2024 South Dakota Spring Wheat Variety Trial Results Variety List

**SOUTH DAKOTA STATE
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Table 1. List of spring wheat varieties tested in 2024 along with origin, agronomic, and grain quality characteristics.

Variety	Testing and Origin		Agronomic Characteristics			Grain Quality	
	Years tested in SD trials	Origin†-Year	Relative Heading‡ (days)	Height (inches)	Lodging Score§	Test Wt. (lb/bu)	Protein (%)
AP GUNSMOKE CL2	4	AP-21	1	30	2.8	53.6	15.9
AP MURDOCK	5+	AP-19	1	29	1.7	55.6	15.1
AP REVOLUTION	3	AP-22	1	29	1.9	56.6	15.1
ASCEND-SD	5+	SD-21	4	34	1.9	56.3	15
BRAWN-SD	5+	SD-22	3	32	2.1	56.4	14.5
CAG CERES	new	CAG-24	0	30	1.6	55.1	14.7
CAG JUSTIFY	3	CAG-21	4	32	2.3	52.4	14.4
CAG RECKLESS	3	CAG-21	3	32	2.1	55.3	14.9
CAG RECOIL	2	CAG-24	5	29	1.3	53.3	15.4
CP3055	new	WF-24	9	32	1.6	49.2	14.3
CP3099A	5+	WF-20	9	34	1.5	47.5	13.1
CP3188	3	WF-20	4	32	3.4	52.4	13.9
CP3322	new	WF-24	9	31	1.8	50.5	14.8
DRIVER	5+	SD-19	5	33	1.9	54.5	14.7
LCS ASCENT	3	LCS-21	0	30	2.3	55.5	14.5
LCS BOOM	3	LCS-23	0	30	1.6	57.1	15.1
LCS BUSTER	5+	LCS-20	7	32	1.6	52.4	13.9
LCS CANNON	5+	LCS-18	0	29	1.7	56.2	15.2
LCS DUAL	3	LCS-21	3	31	1.7	53.6	14.6
LCS HAMMER AX	3	LCS-22	3	30	1.6	52.2	14.8
LCS TRIGGER	5+	LCS-15	8	32	1.9	54.8	13.6
MN-ROTHSAY	3	MN-21	6	28	1.3	54.5	15
MN-TORGY	2	MN-20	3	31	1.8	55.8	15.4
MS CHARGER	3	MS-23	2	30	2.5	54.5	13.7
MS COBRA	4	MS-22	3	30	1.9	54	15.1
MS NOVA	new	MS-24	2	29	1.8	55	15.2
ND STAMPEDE	new	ND-24	1	31	2	54.2	14.8
ND THRESHER	new	ND-24	5	30	2.1	54	15.3
PFS BUNS	4	PFS-21	12	28	1.5	47.5	15.2
PREVAIL	5+	SD-13	0	31	2	55.7	14.7
SURPASS	5+	SD-15	0	31	2	55.1	15.1
SY VALDA	5+	AP-15	2	30	1.8	55.4	14.6
WB9590	5+	WB-17	1	28	1.6	53.6	15.6
WB9606	5+	WB-20	4	31	1.8	54.4	14.7
Trial Averages	-	-	-	25	1.5	58.3	15.2

† AP, AgriPro; CAG, Champion Alliance Group; LCS, Limagrain Cereal Seeds; MN, Minnesota; MS, Meridian Seeds; ND, North Dakota; PFS, Peterson Farms Seed; SD, South Dakota; WI, Winfield; WB, WestBred; and - (Year of Release).
‡ Difference in days to heading compared to Surpass (2024 eastern and central locations).
§ Lodging score: 1, perfectly standing; to 5, completely flat (2024 eastern and central locations).
¶ Test weight and protein are statewide averages.



2024 South Dakota Spring Wheat Variety Trial Results Disease Ratings

**SOUTH DAKOTA STATE
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Table 2. Spring wheat variety disease ratings.

Variety	Disease Ratings†				
	Stem Rust	2023 Leaf Rust	Tan Spot	2023-2024 Bacterial Leaf Streak	2023-2024 Fusarium Head Blight
AP GUNSMOKE CL2	MR	4	7	7	5
AP MURDOCK	MR	4	4	3	5
AP REVOLUTION	R	4	5	3	3
ASCEND-SD	MR	2	5	3	3
BRAWN-SD	MR	3	5	3	4
CAG CERES	-	-	-	-	-
CAG JUSTIFY	MR	7	6	4	5
CAG RECKLESS	MR	4	6	3	5
CAG RECOIL	R	2	2	3	7
CP3055	-	-	-	-	-
CP3099A	MS	8	4	7	7
CP3188	MS	4	6	5	6
CP3322	-	-	-	-	-
DRIVER	MR	2	6	3	4
LCS ASCENT	R	4	7	5	5
LCS BOOM	R	6	6	4	3
LCS BUSTER	R	7	5	5	4
LCS CANNON	R	5	5	4	5
LCS DUAL	R	3	6	6	6
LCS HAMMER AX	R	6	6	7	7
LCS TRIGGER	MR	2	5	2	3
MN-ROTHSAY	R	5	3	4	4
MN-TORGY	MR	3	3	3	3
MS CHARGER	R	5	4	5	5
MS COBRA	R	4	5	4	6
MS NOVA	-	-	-	-	-
ND STAMPEDE	-	-	-	-	-
ND THRESHER	-	-	-	-	-
PFS BUNS	MR	3	4	3	6
PREVAIL	MR	3	3	3	3
SURPASS	MR	4	4	3	3
SY VALDA	R	3	5	4	4
WB9590	MR	3	7	5	7
WB9606	R	4	4	4	7

† Disease ratings: R, resistant; MR, moderately resistant; MS, moderately susceptible; S, susceptible; or 1, most resistant, to 9, most susceptible. Note: SDSU does not perform nursery screenings for all listed pathogens in each growing season.

‡ A dash (-) signifies no rating provided/available.

§ Parenthesis denote estimated ratings/rankings (X) based on externally-provided information.



2024 South Dakota Spring Wheat Variety Trial Results Eastern Summary

**SOUTH DAKOTA STATE
UNIVERSITY EXTENSION**

Table 3. 2024 spring wheat variety performance trial results for testing sites in eastern South Dakota. Varieties ranking in the top 1/3 of each trial category are bold faced 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 %
LCS TRIGGER	49.0	58.1	59.8	53.4	13.1	58.7	57.4	13.6	55.5	56.8	13.9
BRAWN-SD	51.9	54.5	58.6	54.1	14.2	55.9	58.5	14.4	54.5	58.7	14.6
ASCEND-SD	51.0	52.4	62.3	53.7	14.6	55.7	57.4	15.1	54.1	57.6	15.5
SY VALDA	45.8	56.3	56.5	53.3	14.2	56.4	57.1	14.8	52.9	57	15.2
LCS BUSTER	45.8	57.8	50.2	50.8	13.4	55.3	55.3	13.6	52.1	54.6	14
MS CHARGER	46.1	54.0	54.3	51.3	13.8	54.2	56.4	14	51.5	56.6	14.2
CAG JUSTIFY	46.2	55.3	51.2	48.8	14.9	53.9	54.2	15	51.4	54.3	15.3
CAG RECKLESS	46.3	54.4	51.7	52.7	14.5	53.5	57.1	15.2	51.1	57.4	15.5
DRIVER	47.8	53.3	49.2	51.2	14.5	51.9	56.9	15	50.5	57.2	15.2
LCS ASCENT	45.6	52.3	51.8	52.6	14.2	52.1	57.4	14.9	50	57.5	15.1
LCS BOOM	44.6	53.0	51	54.4	15	52.3	58.6	15.8	49.8	58.3	16
AP REVOLUTION	42.3	51.0	58.5	55.4	14.4	53.5	58.2	15.2	49.8	57.8	15.5
AP MURDOCK	43.8	50.7	54	53.3	14.3	51.8	56.8	15.3	49.1	56.7	15.5
WB9606	42.8	57.0	42.3	51.2	14.6	52.1	56.9	14.7	49	56.9	14.9
PREVAIL	45.2	49.7	51.8	53.8	14.6	50.4	57	15.1	48.7	57.2	15.2
LCS CANNON	44.8	51.7	47.1	53.8	15.1	50.1	58.5	15.5	48.4	58.5	15.7
LCS DUAL	44.2	55.0	39.8	49	14.5	49.9	56	14.7	48	56.2	15
SURPASS	42.6	49.0	53.9	52.8	15	50.7	57.1	15.8	48	56.9	15.9
AP GUNSMOKE CL2	43.8	52.2	45	48.2	15.1	49.8	55.2	16	47.8	55.2	16.3
MN-ROTHSAY	42.1	51.7	48.6	51.7	14.1	50.7	56.5	14.9	47.8	56.5	15.3
MS COBRA	41.9	50.0	50.3	50	14.6	50.1	56	15.6	47.3	56.1	15.8
CP3099A	41.8	55.0	38.4	42.6	12.5	49.5	52.2	13	46.9	52.6	13.6
LCS HAMMER AX	42.6	51.1	38.9	47.1	14.3	47.1	54.7	15	45.6	55.1	15.3
PFS BUNS	44.0	49.7	38.6	45.2	14.2	46	51.3	15	45.3	51.1	15.4
MN-TORGY	-	57.1	54.3	54	15.2	56.2	57.9	15.5	-	-	-
CP3188	-	49.4	49.8	50	13.7	49.5	55	14	-	-	-
WB9590	-	49.0	48.3	50.5	14.9	48.8	55.8	16.1	-	-	-
CAG RECOIL	-	48.9	49.5	51.6	14.9	49.1	55	15.3	-	-	-
ND THRESHER	-	-	53.3	51.7	15	-	-	-	-	-	-
CAG CERES	-	-	51.4	52.6	14.2	-	-	-	-	-	-
ND STAMPEDE	-	-	50	50.8	14	-	-	-	-	-	-
MS NOVA	-	-	48.2	52	14.8	-	-	-	-	-	-
CP3055	-	-	46.4	43.9	13.7	-	-	-	-	-	-
CP3322	-	-	39.5	45.7	13.8	-	-	-	-	-	-
Trial Average#	45.2	52.3	49.7	51.4	14.4	51.9	56.4	15.0	49.8	56.4	15.3
LSD(0.05)†	1.8	3.0	3.9	1.3	0.5	2.5	0.5	0.3	1.7	0.4	0.2
C.V.%‡	4.9	8.4	7.9	-	-	8.4	-	-	7.5	-	-

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..



2024 South Dakota Spring Wheat Variety Trial Results Central Summary

SOUTH DAKOTA STATE UNIVERSITY EXTENSION

Table 4. 2024 spring wheat variety performance trial results for testing sites in central South Dakota. Varieties ranking in the top 1/3 of each trial category are boldfaced 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 %
LCS TRIGGER	64.4	73.7	55.4	56.1	13.1	64.5	57.9	12.9	64.5	58.8	13.2
BRAWN-SD	61.7	67.6	58.5	57.2	14.1	63.1	58.7	14.1	62.6	59.5	14.1
SY VALDA	60.3	69.2	58.2	56.4	14.4	63.7	57.5	14.4	62.6	58.3	14.6
ASCEND-SD	60.8	67.5	58.9	57.4	14.8	63.2	58.2	15	62.4	58.9	15.1
MS CHARGER	62.7	66.7	56.1	55.3	13.1	61.4	56.9	13.3	61.8	57.6	13.4
CAG JUSTIFY	59.9	66.3	58.9	53.4	13.8	62.6	55.2	13.8	61.7	56.2	14.1
LCS BUSTER	62.3	72.4	49	53.4	13.7	60.7	55.4	13.2	61.2	56.4	13.3
DRIVER	58.0	69.1	54.1	56	14.5	61.6	57.5	14.6	60.4	58.7	14.8
CAG RECKLESS	58.5	63.5	55.8	56.2	14.9	59.7	57.6	15	59.3	58.5	15.1
LCS ASCENT	58.3	64.8	51.6	55.9	14.2	58.2	57.5	14.6	58.2	58.3	14.6
MN-ROTHSAY	56.0	68.2	50.3	55.3	15.1	59.3	57.1	14.8	58.2	58	14.9
AP REVOLUTION	58.6	61.6	54	57	14.9	57.8	58.2	15.4	58.1	58.8	15.4
SURPASS	56.5	60.0	56.1	55.9	14.9	58	57.1	15.2	57.5	57.8	15.3
LCS DUAL	57.8	65.6	48.8	54.9	14.5	57.2	57	14.4	57.4	57.8	14.6
LCS CANNON	58.7	62.7	49.8	57	15.1	56.3	58.6	15.2	57.1	59.3	15.3
PREVAIL	56.0	59.9	55.2	56.5	14.3	57.5	57.5	14.8	57	58.1	14.9
AP GUNSMOKE CL2	58.0	63.3	49.3	54.7	15.7	56.3	56.7	15.8	56.8	57.7	15.7
AP MURDOCK	57.7	60.7	51.9	56.2	14.8	56.3	57.1	14.9	56.8	57.9	15
WB9606	58.4	68.4	43.3	55	14.4	55.9	56.9	14.3	56.7	57.9	14.3
MS COBRA	55.4	64.5	50	54.8	14.9	57.3	56.7	14.9	56.6	57.5	15.1
LCS BOOM	55.9	60.5	52.9	57.8	15	56.7	58.9	15.3	56.4	59.4	15.4
LCS HAMMER AX	55.4	64.8	45.8	53.1	14.7	55.3	55.5	14.9	55.3	56.6	15
PFS BUNS	58.4	70.4	36.4	48.7	15.2	53.4	52.5	14.2	55.1	54.1	14.3
CP3099A	53.8	70.0	38.4	48.4	12.3	54.2	52.8	12.5	54.1	54	13
MN-TORGY	-	70.8	56.3	56.9	15.1	63.6	58.1	14.8	-	-	-
CP3188	-	67.3	49.7	53.1	13.6	58.5	55.4	13.6	-	-	-
CAG RECOIL	-	66.1	52.4	53.5	15.2	59.2	55.6	14.9	-	-	-
WB9590	-	61.0	47.4	54.2	15.7	54.2	56.1	16.1	-	-	-
ND STAMPEDE	-	-	54.2	55.3	14.6	-	-	-	-	-	-
ND THRESHER	-	-	50.7	55	15.2	-	-	-	-	-	-
MS NOVA	-	-	50.6	56.2	15.2	-	-	-	-	-	-
CAG CERES	-	-	48	55.9	14.7	-	-	-	-	-	-
CP3055	-	-	43.4	49.4	14.2	-	-	-	-	-	-
CP3322	-	-	38.1	51	14.9	-	-	-	-	-	-
Trial Average#	58.4	65.3	50.1	55.1	14.7	58.8	56.9	14.6	58.6	57.7	14.7
LSD(0.05)†	1.4	3.0	2.9	0.6	0.3	2.1	0.4	0.3	1.5	0.3	0.2
C.V.%‡	3.4	6.6	8.3	-	-	7.5	-	-	6.4	-	-

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.



2024 South Dakota Spring Wheat Variety Trial Results Western Summary

SOUTH DAKOTA STATE UNIVERSITY EXTENSION

Table 5. 2024 spring wheat variety performance trial results for testing sites in western South Dakota. Varieties ranking in the top 1/3 of each trial category are boldfaced 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 %
LCS BOOM	52.1	65.4	39.0	58.3	15.6	52.2	58.6	15.6	52.2	58.5	15.1
ASCEND-SD	52.0	61.6	38.9	56.6	15.9	50.2	57.4	15.9	51.0	57.4	15.5
WB9606	55.2	58.2	36.6	56.2	15.5	47.4	57.1	15.7	50.7	56.8	14.8
MS CHARGER	50.5	64.6	36.1	56.2	14.7	50.4	57.1	15.0	50.4	56.8	14.3
LCS CANNON	55.1	56.6	36.6	57.3	15.3	46.6	58.4	15.6	50.2	58.3	15.1
SY VALDA	51.8	60.5	37.3	55.6	15.6	48.9	56.5	15.8	50.1	56.4	15.3
LCS BUSTER	51.2	65.0	33.4	51.8	14.8	49.2	53.5	14.9	50.1	53.3	14.3
BRAWN-SD	49.6	61.3	39.5	57.0	15.7	50.4	58.2	15.6	50.0	58.3	15.0
LCS ASCENT	52.3	57.0	37.3	57.5	15.3	47.2	57.7	15.3	49.3	57.7	14.8
AP GUNSMOKE CL2	50.4	58.8	38.1	56.8	16.9	48.5	57.2	16.6	49.3	56.8	16.1
MN-ROTHSAY	48.9	64.8	33.1	55.6	15.7	48.9	56.7	15.6	48.9	56.8	15.2
CAG RECKLESS	50.5	58.0	37.2	56.2	15.4	47.6	56.9	15.4	48.8	57.3	15.0
CAG JUSTIFY	53.0	55.9	35.3	54.1	15.2	45.6	55.3	15.6	48.8	55.0	15.2
MS COBRA	47.9	62.3	36.2	56.4	16.1	49.3	57.2	16.0	48.7	57.2	15.4
LCS TRIGGER	51.2	61.2	31.9	53.4	15.3	46.5	55.3	15.3	48.5	55.5	14.8
AP MURDOCK	50.7	59.0	34.7	56.7	16.3	46.8	57.2	16.1	48.5	57.0	15.7
SURPASS	50.8	57.3	36.0	55.8	15.6	46.6	56.6	15.9	48.4	56.4	15.3
PREVAIL	48.1	62.0	35.4	55.8	15.7	48.7	56.7	15.5	48.4	56.7	15.0
LCS HAMMER AX	51.2	54.4	37.4	55.4	15.4	45.9	56.1	15.3	48.2	56.1	14.8
DRIVER	47.9	58.9	34.6	54.9	15.2	46.8	56.2	15.3	47.2	56.7	14.9
PFS BUNS	55.3	56.1	21.3	47.4	16.1	38.7	50.8	16.0	45.8	51.3	15.5
AP REVOLUTION	45.3	55.3	37.0	57.0	16.1	46.1	58.0	15.9	45.8	57.4	15.5
LCS DUAL	49.9	50.5	33.6	55.6	14.9	42.0	56.7	15.2	45.4	56.9	14.6
CP3099A	51.9	40.3	33.4	50.6	15.0	36.8	53.4	15.4	43.3	52.7	14.8
MN-TORGY	-	64.3	35.4	55.4	16.1	49.9	56.6	15.7	-	-	-
CAG RECOIL	-	63.9	38.9	54.7	16.2	51.4	55.2	15.7	-	-	-
CP3188	-	53.9	39.8	53.5	14.6	46.9	55.2	15.1	-	-	-
WB9590	-	52.4	35.0	55.7	16.1	43.7	56.8	16.2	-	-	-
ND STAMPEDE	-	-	40.4	55.1	16.1	-	-	-	-	-	-
MS NOVA	-	-	36.4	55.9	15.8	-	-	-	-	-	-
CAG CERES	-	-	34.5	56.2	15.1	-	-	-	-	-	-
CP3055	-	-	33.7	54.2	15.2	-	-	-	-	-	-
CP3322	-	-	33.3	54.2	15.6	-	-	-	-	-	-
ND THRESHER	-	-	31.4	54.3	16.0	-	-	-	-	-	-
Trial Average#	50.8	57.1	35.9	55.5	15.6	46.8	56.4	15.7	48.6	56.4	15.1
LSD(0.05)†	3.8	5.3	2.8	1.3	0.5	2.9	0.8	0.5	2.4	0.5	0.3
C.V.%‡	9.5	9.6	8.0	-	-	8.9	-	-	9.4	-	-

Trial averages may include values from experimental lines that are not reported.

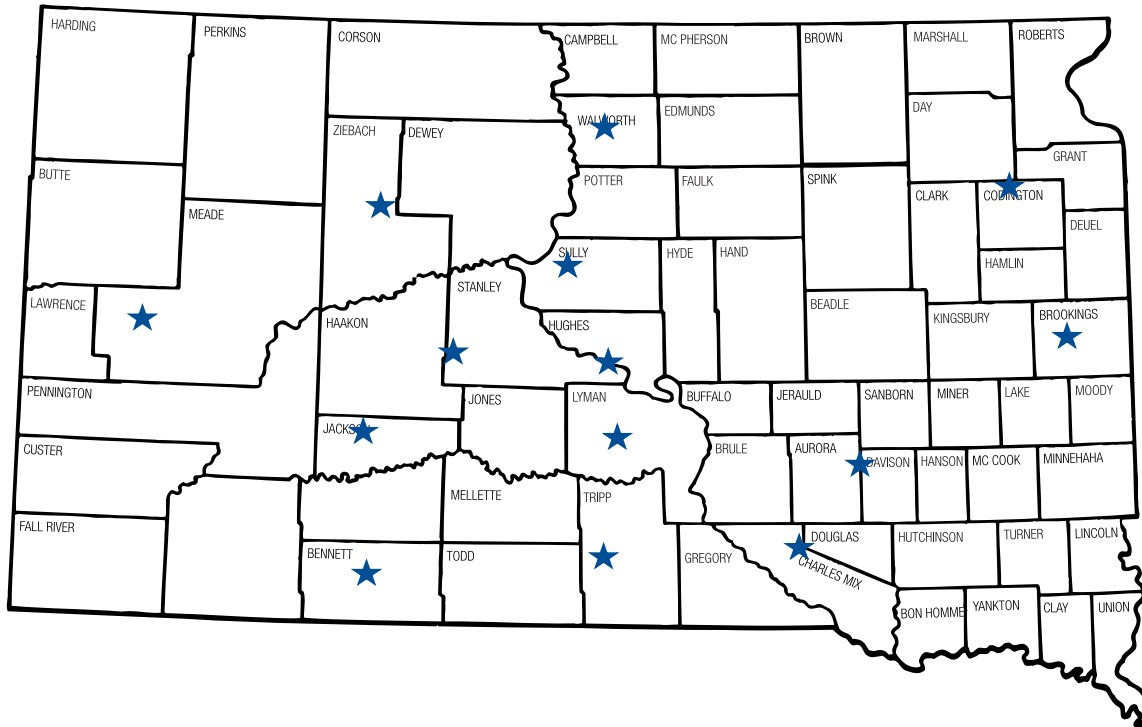
† Value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is considered acceptable.



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 (≥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 (≥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.