



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

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

2022 South Dakota Winter Wheat Variety Trial Results Wall

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Cooperator: Kent Kjerstad c/o Bryan Lutter
Location: 44.087500°, -102.328889°
Soil Type: Santanta loam, 2-6% slopes
Previous crop: spring wheat
Tillage: no-till
Row spacing: 10"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
- Starter: 10 gal/acre 10-25-0-.25S
- Other: 40 gal/acre 28-0-0 mid-row banded
Herbicide:
- Burndown: 16 oz/acre Roundup RT3
- Post: none
Fungicide: none
Date seeded: 9/23/2021
Date harvested: 7/20/2022



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Table 1. 2022 winter wheat variety performance trial results (average of 4 replications) at Wall, SD.

Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of the trial are bolded and shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein (%)#	2020 (bu/a)#	2021 (bu/a)	2022 (bu/a)	2-year (bu/a)	3-year (bu/a)
Winner	31	1.0	60.3	13.3	57.9	74.8	70.1	72.4	67.6
SD Midland	31	1.0	59.6	13.2	56.5	83.6	62.6	73.1	67.6
CP7909	31	1.0	60.7	13.6	49.7	86.3	66.2	76.3	67.4
Ideal	32	1.0	60.8	13.5	51.4	80.8	68.8	74.8	67.0
SD Andes	32	1.0	60.2	12.9	52.6	79.2	68.2	73.7	66.6
Redfield	31	1.0	59.9	13.7	51.1	72.9	68.9	70.9	64.3
SY Wolverine	32	1.0	60.6	13.6	44.8	77.1	69.8	73.4	63.9
AP 18AX	29	1.0	58.5	13.5	51.2	66.6	69.4	68.0	62.4
Draper	30	1.0	59.5	13.7	48.4	73.9	64.4	69.2	62.2
WB4309	31	1.0	59.9	14.0	50.8	75.1	60.4	67.8	62.1
LCS Helix AX	30	1.0	61.1	13.3	51.3	78.4	56.0	67.2	61.9
CP7017AX	32	1.0	61.1	12.6	51.1	67.8	66.6	67.2	61.8
Crescent AX	31	1.0	59.1	13.7	49.3	74.4	56.4	65.4	60.0
CP7050AX	30	1.0	61.4	14.4	48.8	70.0	57.7	63.9	58.9
Expedition	33	1.0	60.7	14.3	36.4	69.1	54.9	62.0	53.5
AP Clair	31	1.0	60.1	13.8	-	77.6	63.7	70.7	-
LCS Julep	31	1.0	61.4	14.7	-	77.8	56.2	67.0	-
CP7869	31	1.0	59.6	14.2	-	74.0	59.7	66.8	-
MS Iceman	26	1.0	61.1	14.5	-	72.8	60.3	66.5	-
AP Bigfoot	29	1.0	60.5	13.9	-	71.6	60.8	66.2	-
LCS Chrome	29	1.0	60.1	14.6	-	75.6	55.9	65.7	-
LCS Steel AX	35	1.0	58.5	13.4	-	73.0	52.5	62.8	-
LCS Photon AX	27	1.0	61.1	14.5	-	68.7	52.4	60.6	-
Kivari AX	32	1.0	59.1	12.4	-	-	72.2	-	-
Viking 211	32	1.0	60.5	13.2	-	-	68.8	-	-
Byrd CL Plus	34	1.0	57.3	13.3	-	-	67.3	-	-
WB4422	32	1.0	61.6	14.1	-	-	67.1	-	-
MS Maverick	31	1.0	60.0	13.6	-	-	63.6	-	-
CPX72166AX	33	1.0	59.3	13.1	-	-	59.3	-	-
WB4510CLP	32	1.0	61.2	13.9	-	-	58.7	-	-
Trial Average#	30	1.0	60.2	13.7	49.2	75.4	63.6	68.3	63.1
LSD (0.05)†	-	-	-	-	7.1	8.1	9.7	-	-
C.V. %‡	-	-	-	-	8.9	7.6	10.9	-	-

* Lodging score: 1, perfectly standing; to 5, completely flat.

Corrected to 13% moisture. Note: 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.