



**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 Platte

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Cooperator: Ryan Kott
Location: 43.506222°, -98.993111°
Soil Type: Highmore-Mobridge silt loams, 0-4% slopes
Previous crop: soybeans
Tillage: no-till
Row spacing: 8"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
- Starter: 90 lbs/acre 30-10-10
- Other: 29 gal/acre UAN spring-applied
Herbicide:
- Burndown: not reported
- Post: 15 oz/acre Huskie
Fungicide: 5 oz/acre Stratego YLD (applied with herbicide) + 6.5 oz/acre Prosaro (at flowering)
Date seeded: 9/28/2021
Date harvested: 7/20/2022



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Table 1. 2022 winter wheat variety performance trial results (average of 4 replications) at Platte, 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)
SD Andes	31	1.0	59.9	13.5	72.4	54.1	50.1	52.1	58.9
Ideal	30	1.0	60.0	13.7	74.1	55.3	46.8	51.1	58.7
Draper	30	1.0	59.4	14.3	75.6	46.3	49.7	48.0	57.2
SY Wolverine	27	1.0	59.5	13.6	72.9	50.0	47.9	49.0	56.9
SD Midland	33	1.0	59.9	13.9	67.1	52.3	50.1	51.2	56.5
Winner	30	1.0	59.0	13.8	71.4	49.2	46.6	47.9	55.7
CP7017AX	28	1.0	59.4	13.2	68.7	43.3	51.6	47.5	54.6
WB4309	29	1.0	59.0	14.4	65.5	53.3	44.8	49.1	54.5
LCS Helix AX	29	1.0	59.7	13.9	70.6	47.2	43.7	45.4	53.8
Crescent AX	31	1.5	59.4	13.9	69.5	43.8	48.0	45.9	53.8
Expedition	31	1.3	59.7	14.5	64.0	44.9	48.0	46.4	52.3
Redfield	30	1.0	59.5	14.3	67.7	43.6	44.8	44.2	52.0
AP 18AX	30	1.0	58.1	13.9	66.0	42.7	46.5	44.6	51.7
CP7909	27	1.3	59.0	13.7	60.6	45.2	46.1	45.6	50.6
CP7050AX	29	1.0	59.5	15.0	64.0	33.6	44.4	39.0	47.3
AP Clair	28	1.0	59.0	15.0	-	52.8	49.1	51.0	-
LCS Steel AX	32	1.0	60.3	12.4	-	44.5	56.5	50.5	-
AP Bigfoot	29	1.0	58.9	14.2	-	45.1	51.0	48.0	-
CP7869	28	1.0	60.3	13.8	-	44.1	49.6	46.9	-
LCS Julep	29	1.0	60.7	14.5	-	43.8	47.8	45.8	-
MS Iceman	27	1.0	59.9	15.2	-	41.6	43.2	42.4	-
LCS Chrome	31	1.0	59.1	14.8	-	39.6	44.7	42.2	-
LCS Photon AX	27	1.0	58.7	15.4	-	40.5	39.2	39.8	-
WB4422	30	1.0	60.7	14.1	-	-	53.8	-	-
Byrd CL Plus	33	1.0	58.8	13.0	-	-	52.7	-	-
WB4510CLP	32	1.0	61.7	13.2	-	-	51.3	-	-
Viking 211	29	2.3	58.9	13.8	-	-	49.0	-	-
Kivari AX	30	2.8	58.3	12.5	-	-	48.6	-	-
MS Maverick	30	2.5	59.2	13.8	-	-	48.2	-	-
CPX72166AX	30	1.8	58.3	13.5	-	-	43.8	-	-
Trial Average#	30	1.2	59.5	13.9	66.6	46.6	48.8	46.7	54.3
LSD (0.05)†	-	-	0.7	0.8	5.7	6.5	3.3	-	-
C.V. %‡	-	-	0.9	4.2	6.1	10.0	4.8	-	-

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

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.