



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

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

2021 South Dakota Winter Wheat Variety Trial Results Platte

Jonathan Kleinjan | SDSU Extension Agronomist
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Cooperator: Ryan Kott
Location: 43.505737°, -99.071301°
Soil Type: Beadle loam, 2-6% 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: 28 gal/acre UAN + 2 gal/acre AMS spring-applied
Herbicide:
-Burndown: not reported
-Post: 15 oz/acre Huskie
Fungicide: 10 oz/acre Stratego + 6.5 oz/acre Prosaro (timing not reported)
Date seeded: 10/5/2020
Date harvested: 7/22/2021
Notes: Very dry conditions throughout the growing season.



2021 South Dakota Winter Wheat Variety Trial Results Platte

**SOUTH DAKOTA STATE
UNIVERSITY EXTENSION**

Table 1. 2021 winter wheat variety performance trial results (average of four replications) at Platte, South Dakota. Entries are sorted by overall two-year yield. Varieties yielding in the top third of the trial are shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein (%)#	2019 (bu/a)#	2020 (bu/a)	2021 (bu/a)	2-year§ (bu/a)
Ideal	24.3	1.0	60.7	13.6	-	74.1	55.3	64.7
SD Andes	24.8	1.0	61.2	13.3	-	72.4	54.1	63.3
SY Wolverine	23.0	1.0	58.3	13.5	-	72.9	50.0	61.5
Draper	23.5	1.0	58.8	14.4	-	75.6	46.3	60.9
Winner	24.8	1.0	59.9	13.0	-	71.4	49.2	60.3
Oahe	29.0	1.0	60.3	13.4	-	67.2	53.3	60.3
WB4462	27.0	1.0	60.1	12.9	-	70.1	49.8	59.9
WB4309	24.5	1.0	58.4	13.7	-	65.5	53.3	59.4
Langin	24.0	1.0	59.2	12.9	-	66.7	51.2	58.9
LCS Helix AX	23.0	1.0	60.1	12.9	-	70.6	47.2	58.9
Guardian	24.5	1.0	61.3	13.4	-	69.3	47.5	58.4
Crescent AX	23.8	1.0	59.5	14.0	-	69.5	43.8	56.7
CP7017AX	23.3	1.0	57.6	13.4	-	68.7	43.3	56.0
Thompson	25.5	1.0	60.5	13.5	-	66.8	45.1	56.0
Overland	23.5	1.0	60.3	13.7	-	63.4	47.9	55.7
Redfield	22.3	1.0	60.2	14.9	-	67.7	43.6	55.6
SY 517 CL2	23.5	1.0	60.8	14.0	-	64.1	45.7	54.9
Expedition	26.3	1.0	59.7	13.9	-	64.0	44.9	54.4
AP 18AX	22.5	1.0	58.5	13.8	-	66.0	42.7	54.4
ND Noreen	26.8	1.0	61.8	13.8	-	60.6	46.0	53.3
Cowboy	24.3	1.0	60.1	13.4	-	64.8	41.1	53.0
CP7909	23.8	1.0	59.5	13.0	-	60.6	45.2	52.9
CP7050AX	22.3	1.0	59.7	14.1	-	64.0	33.6	48.8
AP Clair	22.3	1.0	59.1	13.9	-	-	52.8	-
Whistler	25.8	1.0	60.3	12.7	-	-	52.3	-
AP Bigfoot	23.8	1.0	58.9	13.9	-	-	45.1	-
LCS Steel AX	24.0	1.0	58.4	13.4	-	-	44.5	-
CP7869	23.8	1.0	59.0	13.1	-	-	44.1	-
LCS Julep	23.5	1.0	62.0	14.1	-	-	43.8	-
MS Iceman	22.5	1.0	60.9	14.8	-	-	41.6	-
LCS Photon AX	21.5	1.0	59.9	14.0	-	-	40.5	-
LCS Chrome	24.0	1.0	58.5	14.9	-	-	39.6	-
Trial Average¶	24.6	1.0	59.9	13.8	-	66.6	46.6	57.3
LSD (0.05)†	2.0	-	1.2	1.1	-	5.7	6.5	-
C.V. %‡	4.8	-	1.4	5.6	-	6.1	10.0	-

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

Grain yield and grain protein content are corrected to 13% moisture.

§ Three-year yields are not reported as the location was not harvested in 2019.

¶ 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.