



**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 Faith

Jonathan Kleinjan | SDSU Extension Agronomist
Christopher Graham | SDSU Extension Agronomist
Bruce Swan | Agricultural Research Manager
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Cooperator: Bryant Schauer
Location: 44.970556°,-101.906111°
Soil Type: Rhoades-Daglum complex, 0-6% slopes
Previous crop: winter 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: not reported
-Post: none
Fungicide: none
Date seeded: 9/30/2020
Date harvested: 8/2/2021

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

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs/bu)	Protein %	2019 (bu/a) #	2020 (bu/a)	2021 (bu/a)	2-year (bu/a)	3-year (bu/a)
Winner	not reported	not reported	59.0	12.4	71.0	82.7	85.8	84.2	79.8
Oahe	not reported	not reported	61.1	12.3	65.7	91.8	77.0	84.4	78.2
WB4462	-	-	60.1	12.9	68.0	66.7	81.5	74.1	72.1
Cowboy	-	-	59.6	12.3	63.7	78.7	73.4	76.1	71.9
Redfield	-	-	58.2	13.8	63.1	79.2	72.0	75.6	71.4
SD Andes	-	-	59.6	12.8	61.0	76.9	71.9	74.4	69.9
Draper	-	-	59.5	13.3	69.3	66.2	71.1	68.7	68.9
Thompson	-	-	58.6	13.3	57.4	71.7	76.5	74.1	68.5
Overland	-	-	60.5	13.1	61.0	66.2	76.7	71.5	68.0
Ideal	-	-	57.8	13.5	62.5	72.0	64.9	68.4	66.5
SY Wolverine	-	-	58.6	13.0	59.7	65.1	72.3	68.7	65.7
SY 517 CL2	-	-	59.9	13.4	54.6	64.2	77.4	70.8	65.4
Langin	-	-	53.9	12.2	54.1	60.5	73.9	67.2	62.8
Expedition	-	-	59.4	13.4	51.6	46.2	63.4	54.8	53.7
WB4309	-	-	58.5	12.9	-	73.9	78.7	76.3	-
ND Noreen	-	-	61.9	12.8	-	79.1	65.9	72.5	-
LCS Helix AX	-	-	60.6	12.4	-	69.1	75.9	72.5	-
Guardian	-	-	59.1	13.4	-	75.8	67.0	71.4	-
CP7017AX	-	-	58.8	12.6	-	79.3	62.2	70.7	-
CP7909	-	-	60.4	12.3	-	67.5	72.2	69.9	-
Crescent AX	-	-	60.2	12.6	-	64.6	68.1	66.4	-
AP 18AX	-	-	58.8	12.8	-	53.8	72.5	63.2	-
CP7050AX	-	-	61.7	12.9	-	53.8	67.4	60.6	-
AP Clair	-	-	58.1	13.6	-	-	71.8	-	-
AP Bigfoot	-	-	59.8	13.2	-	-	70.0	-	-
LCS Steel AX	-	-	59.0	12.4	-	-	69.9	-	-
Whistler	-	-	56.9	12.9	-	-	68.2	-	-
LCS Photon AX	-	-	61.2	13.2	-	-	67.8	-	-
LCS Chrome	-	-	58.8	13.3	-	-	66.4	-	-
LCS Julep	-	-	60.2	13.6	-	-	65.3	-	-
CP7869	-	-	58.0	13.5	-	-	64.1	-	-
MS Iceman	-	-	59.7	13.9	-	-	63.8	-	-
Trial Average#	-	-	59.0	13.1	61.6	71.0	70.6	71.1	68.8
LSD (0.05)†	-	-	3.1	0.9	9.5	11.0	8.6	-	-
C.V. %‡	-	-	3.7	4.8	10.9	11.1	8.8	-	-

* 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.