



2019 South Dakota Winter Wheat Variety Trial Results Wall

Jonathan Kleinjan | SDSU Extension Crop Production Associate

Christopher Graham | SDSU Extension Agronomist

Bruce Swan | Agricultural Research Manager

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

Cooperator: Dale Patterson
Location: 44.088150°, -102.329184°
Soil Type: Santana loam, 2-6% slopes
Previous crop: Winter Wheat/Fallow
Tillage: No-till
Row spacing: 10"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
-Starter: 6 gal/acre 10-25-0 + 4 gal/acre water carrier
-Other: 45 gal/acre 28-0-0 mid-row banded
Herbicide:
-Burndown: 24 oz Durango + 6 oz Barrage
-Post: 1.33 pt WideMatch + 4 oz LV6
Fungicide: NR
Date seeded: 10/6/2018
Date harvested: 8/14/2019

Table 1. 2019 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 shaded light blue.

Variety	Height (in)	Lodging (1-5)	Test Wt (lbs)	Protein %	2017 (bu/a)	2018 (bu/a)	2019 (bu/a)	2-year (bu/a)	3-year (bu/a)
SD14115-5	NR	NR	57.2	12.9	61.7	74.1	78.3	76.2	71.4
Ideal	-	-	54.7	12.1	65.2	70.9	66.3	68.6	67.4
SY Monument	-	-	51.6	13.0	52.4	73.8	65.7	69.7	63.9
Keldin	-	-	55.4	13.4	57.2	73.4	61.1	67.2	63.9
SD14113-3	-	-	54.3	13.3	54.3	66.7	66.1	66.4	62.4
Thompson	-	-	56.8	13.7	58.3	66.2	61.9	64.0	62.1
Langin	-	-	52.4	13.4	70.0	67.6	47.8	57.7	61.8
SY Wolf	-	-	55.6	14.0	57.4	69.7	56.4	63.0	61.2
Overland	-	-	56.1	13.7	58.7	66.4	58.0	62.2	61.0
Redfield	-	-	54.6	13.0	40.5	74.0	68.0	71.0	60.8
Oahe	-	-	56.8	13.9	47.2	72.1	59.5	65.8	59.6
Wesley	-	-	52.9	14.4	53.3	74.0	48.3	61.1	58.5
SY 517 CL2	-	-	56.7	14.0	45.7	73.0	53.4	63.2	57.3
Cowboy	-	-	53.2	12.5	51.0	65.5	54.7	60.1	57.1
LCS Mint	-	-	53.4	12.6	52.5	68.5	47.4	57.9	56.1
Avery	-	-	52.2	12.7	49.1	64.8	51.8	58.3	55.2
WB-Grainfield	-	-	52.8	13.6	40.8	74.0	48.8	61.4	54.5
Expedition	-	-	54.2	13.9	53.6	60.3	49.2	54.7	54.3
SY Sunrise	-	-	51.5	13.5	44.9	70.8	45.2	58.0	53.6
Lyman	-	-	49.5	15.1	50.3	71.4	32.1	51.7	51.2
Alice	-	-	51.0	14.3	41.2	69.7	38.2	54.0	49.7
NHH144913-3	-	-	51.4	14.1	-	71.7	54.3	63.0	-
WB4462	-	-	52.8	13.6	-	63.5	55.4	59.5	-
LCS Chrome	-	-	54.2	15.4	-	67.6	48.9	58.2	-
SY Wolverine	-	-	51.0	14.9	-	-	53.5	-	-
NW13493	-	-	53.7	13.4	-	-	51.7	-	-
WB4595	-	-	55.5	13.1	-	-	49.9	-	-
Canvas	-	-	51.2	13.7	-	-	44.3	-	-
Trial Average#	-	-	54.1	13.5	52.4	69.5	56.8	62.2	59.2
LSD(0.05)†	-	-	3.0	0.7	14.3	12.9	8.8	-	-
C.V.%‡	-	-	4.1	3.5	19.5	12.2	11.1	-	-

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.