



2019 South Dakota Winter Wheat Variety Trial Results Faith

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Cooperator: Bryant Schauer
Location: 44.982554°, -101.882518°
Soil Type: Regent-Rhodes complex, 2-9% slopes
Previous crop: wheat
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: NR
-Post: 16 oz/acre GoldSky
Fungicide: 5 oz/acre Stratego
Date seeded: 9/24/2018
Date harvested: 8/26/2019

Table 1. 2019 winter wheat variety performance trial results (average of 4 replications) at Faith, 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)
SD14113-3	NR	NR	59.8	14.0	37.0	65.2	69.3	67.3	57.2
LCS Mint	-	-	59.1	13.6	30.3	68.6	65.1	66.9	54.7
SD14115-5	-	-	58.0	13.9	34.8	56.9	71.0	63.9	54.2
WB-Grainfield	-	-	60.1	14.1	36.7	48.3	70.5	59.4	51.8
Keldin	-	-	56.4	13.1	23.0	65.3	65.5	65.4	51.3
Ideal	-	-	55.9	13.4	36.2	53.9	62.5	58.2	50.9
Overland	-	-	58.5	14.3	33.9	57.6	61.0	59.3	50.8
SY Monument	-	-	55.0	13.3	26.8	63.2	62.3	62.7	50.8
Cowboy	-	-	55.6	12.7	18.4	69.4	63.7	66.6	50.5
Redfield	-	-	57.6	13.5	25.9	60.1	63.1	61.6	49.7
Lyman	-	-	59.3	14.3	29.0	58.8	60.7	59.7	49.5
Oahe	-	-	57.9	13.9	27.9	53.6	65.7	59.7	49.1
SY Wolf	-	-	57.2	14.1	32.2	55.5	58.9	57.2	48.8
Wesley	-	-	58.1	14.9	30.8	53.3	60.4	56.8	48.2
Thompson	-	-	59.4	13.5	28.5	58.5	57.4	58.0	48.1
SY 517 CL2	-	-	59.2	14.9	32.5	57.2	54.6	55.9	48.1
SY Sunrise	-	-	59.2	13.5	25.0	54.5	56.6	55.6	45.4
Avery	-	-	56.9	13.1	29.8	54.6	50.5	52.6	45.0
Langin	-	-	57.8	13.0	28.3	51.0	54.1	52.5	44.5
Alice	-	-	56.7	14.0	32.2	53.2	46.1	49.7	43.8
Expedition	-	-	57.4	14.3	26.3	43.7	51.6	47.7	40.5
LCS Chrome	-	-	58.3	14.2	-	60.6	64.8	62.7	-
WB4462	-	-	57.5	13.8	-	56.1	68.0	62.0	-
NHH144913-3	-	-	54.2	14.3	-	51.9	64.3	58.1	-
WB4595	-	-	60.0	12.3	-	-	70.8	-	-
SY Wolverine	-	-	58.9	14.5	-	-	59.7	-	-
NW13493	-	-	60.7	13.7	-	-	58.5	-	-
Canvas	-	-	54.9	13.5	-	-	53.3	-	-
Trial Average#	-	-	57.7	13.7	28.9	57.8	61.6	59.1	49.2
LSD(0.05)†	-	-	2.7	0.5	11.0	7.5	9.5	-	-
C.V.%‡	-	-	3.4	2.7	27.4	9.3	10.9	-	-

* 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.