



2019 South Dakota Winter Wheat Variety Trial Results Vivian

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Cooperator: Ryan Larson
Location: 44.005553°, -100.200664°
Soil Type: Millboro silty clay, 3-6% slopes
Previous crop: Spring wheat
Tillage: No-till
Row spacing: 10"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
-**Starter:** 6 gal/acre 10-25-0-.25S + 4 gal/acre water carrier
-**Other:** 40 gal/acre 28-0-0 mid-row banded; 1.5 gal/acre CoRoN at Feekes 10
Herbicide:
-**Burndown:** 32 oz RT3 + 14 oz Latigo + 3.2 oz Hel-Fire
-**Post:** 16 oz WideMatch + 0.2 oz Rapport tankmix
Fungicide: None
Date seeded: 10/2/2018
Date harvested: 8/1/2019

Table 1. 2019 winter wheat variety performance trial results (average of 4 replications) at Vivian, 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* (1-9)	Test Wt (lbs)	Protein %	2017 (bu/a)	2018 (bu/a)	2019 (bu/a)	2-year (bu/a)	3-year (bu/a)
SD14113-3	35	NR	53.0	13.5	61.4	74.9	61.7	68.3	66.0
SD14115-5	32	-	55.3	14.1	53.3	76.0	63.0	69.5	64.1
SY Monument	35	-	53.6	13.2	65.5	67.1	58.4	62.7	63.6
Ideal	33	-	53.8	13.8	55.9	68.6	63.4	66.0	62.6
Keldin	33	-	54.4	13.9	76.1	48.8	62.8	55.8	62.6
WB-Grainfield	30	-	55.2	13.3	62.7	67.4	57.2	62.3	62.4
Oahe	35	-	57.4	14.4	57.3	64.0	60.7	62.3	60.7
Overland	33	-	56.2	14.3	61.4	58.7	57.5	58.1	59.2
Langin	29	-	55.4	13.3	63.0	63.1	51.4	57.2	59.1
SY Wolf	33	-	53.5	14.4	58.0	63.3	56.0	59.7	59.1
Wesley	34	-	55.1	14.8	58.9	63.5	54.8	59.1	59.0
Redfield	33	-	54.0	14.1	50.0	62.9	62.0	62.5	58.3
Cowboy	31	-	55.0	13.0	60.7	60.8	53.1	57.0	58.2
SY Sunrise	32	-	54.3	13.6	61.4	64.4	46.0	55.2	57.3
Thompson	31	-	56.7	14.4	55.7	66.1	49.9	58.0	57.2
Lyman	33	-	55.8	15.4	57.2	67.2	46.5	56.8	57.0
Expedition	31	-	55.7	14.7	60.2	64.0	45.9	54.9	56.7
Avery	30	-	55.3	13.3	54.6	60.1	55.0	57.5	56.5
SY 517 CL2	32	-	55.9	14.3	55.4	56.0	53.3	54.6	54.9
LCS Mint	32	-	56.9	14.3	50.8	58.0	54.7	56.4	54.5
Alice	29	-	53.0	14.1	63.6	59.0	40.6	49.8	54.4
LCS Chrome	33	-	57.1	15.4	-	67.2	56.1	61.6	-
WB4462	37	-	54.1	14.2	-	70.2	51.2	60.7	-
NHH144913-3	29	-	51.8	14.7	-	57.1	52.1	54.6	-
SY Wolverine	35	-	51.2	13.5	-	-	59.1	-	-
WB4595	34	-	57.0	13.1	-	-	55.9	-	-
NW13493	31	-	57.0	14.1	-	-	54.2	-	-
Canvas	28	-	52.4	14.0	-	-	44.0	-	-
Trial Average#	32	-	55.0	14.1	58.1	64.5	55.5	59.2	59.2
LSD(0.05)†	-	-	2.1	0.4	18.8	7.5	5.0	-	-
C.V.%‡	-	-	2.7	2.1	23.1	8.3	6.7	-	-

* 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.