



2019 South Dakota Winter Wheat Variety Trial Results Martin

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Cooperator: Carl and Mary Kay Novotny
Location: 43.20056°, -101.50889°
Soil Type: Dawes-Keith silt loams, 0-3% slopes
Previous crop: Hay millet
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 WideMatch + 4 oz/acre LV6
Fungicide: None
Date seeded: 9/27/2018
Date harvested: 9/6/2019

Table 1. 2019 winter wheat variety performance trial results (average of 4 replications) at Martin, 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)
Cowboy	NR	NR	54.1	10.2	46.6	68.9	69.8	69.3	61.7
SD14113-3	-	-	54.4	10.3	52.2	57.6	70.3	64.0	60.0
SY Wolf	-	-	47.3	9.9	48.2	62.8	68.2	65.5	59.7
SY Monument	-	-	51.9	9.7	48.6	60.2	69.3	64.8	59.4
Keldin	-	-	53.4	9.8	43.5	65.6	67.3	66.4	58.8
Avery	-	-	53.9	9.0	44.5	61.4	63.7	62.5	56.5
Expedition	-	-	51.5	9.5	36.2	69.1	61.7	65.4	55.6
Ideal	-	-	54.0	9.6	37.0	64.8	63.7	64.3	55.2
Redfield	-	-	55.7	10.1	41.0	58.1	65.6	61.8	54.9
Wesley	-	-	51.4	10.1	48.6	56.7	58.3	57.5	54.5
LCS Mint	-	-	51.3	9.4	38.8	57.8	66.7	62.3	54.5
SY 517 CL2	-	-	56.1	10.2	35.5	67.7	60.2	63.9	54.4
WB-Grainfield	-	-	54.2	10.0	34.9	63.0	65.2	64.1	54.4
Overland	-	-	55.2	9.5	46.5	48.6	67.4	58.0	54.1
SY Sunrise	-	-	52.6	9.5	30.4	62.0	66.4	64.2	52.9
Oahe	-	-	56.0	10.3	40.2	54.1	62.0	58.0	52.1
Lyman	-	-	54.8	10.9	32.7	66.6	56.8	61.7	52.1
SD14115-5	-	-	52.7	9.6	34.4	50.5	67.5	59.0	50.8
Thompson	-	-	55.2	10.3	41.2	50.8	59.2	55.0	50.4
Langin	-	-	52.4	9.5	36.8	52.1	61.1	56.6	50.0
Alice	-	-	53.9	10.6	36.2	57.2	50.7	54.0	48.1
WB4462	-	-	53.0	11.2	-	69.3	71.9	70.6	-
NHH144913-3	-	-	51.6	10.4	-	48.7	62.9	55.8	-
LCS Chrome	-	-	54.9	10.7	-	54.3	50.2	52.2	-
SY Wolverine	-	-	44.5	9.1	-	-	76.1	-	-
WB4595	-	-	54.7	9.8	-	-	62.8	-	-
Canvas	-	-	51.5	10.3	-	-	62.7	-	-
NW13493	-	-	55.7	10.7	-	-	52.9	-	-
Trial Average#	-	-	53.6	9.9	41.8	59.8	64.1	61.5	54.8
LSD(0.05)†	-	-	2.1	0.5	9.6	8.3	7.7	-	-
C.V.%‡	-	-	3.0	4.0	16.5	10.0	8.6	-	-

* 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.