



2019 South Dakota Winter Wheat Variety Trial Results Hayes

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Cooperator: Terry Hand
Location: 44.323903°, -101.065690°
Soil Type: Opal clay, 3-6% slopes
Previous crop: Oats
Tillage: No-till
Row spacing: 8"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
 -Starter: 10 gal/acre 10-34-0
 -Other: 42 gal/acre 28-0-0
Herbicide:
 -Burndown: NR
 -Post: 13 oz Bromac (bromoxynil) + 13 oz Puma (fenoxaprop)
Fungicide: none
Date seeded: 9/14/2018
Date harvested: 7/31/2019
Notes: Good growing conditions.

Table 1. 2019 winter wheat variety performance trial results (average of 4 replications) at Hayes, SD. Entries are sorted by overall 2-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)
Overland	38.0	1.7	58.8	11.5	hailed	41.8	88.5	65.1	NA
SD14115-5	36.0	1.3	58.7	11.9	out§	44.2	85.7	65.0	-
LCS Chrome	35.0	2.3	58.2	12.8	-	44.7	83.0	63.9	-
LCS Mint	36.0	3.0	60.6	11.3	-	40.4	85.6	63.0	-
Lyman	37.0	2.7	59.6	12.1	-	45.6	80.3	63.0	-
Keldin	37.0	3.0	59.9	12.0	-	42.6	81.1	61.8	-
Expedition	38.0	1.0	58.6	12.3	-	41.7	81.0	61.3	-
Oahe	41.0	4.3	60.2	12.1	-	40.5	81.9	61.2	-
Redfield	35.0	1.0	58.3	12.4	-	41.9	80.1	61.0	-
Thompson	38.0	1.7	59.0	12.2	-	38.2	83.6	60.9	-
SD14113-3	34.0	1.3	57.6	11.7	-	39.9	81.4	60.7	-
SY Sunrise	33.0	2.7	57.7	12.0	-	39.2	81.9	60.5	-
Cowboy	36.0	2.0	58.1	11.8	-	44.2	76.6	60.4	-
WB4462	37.0	1.7	57.8	12.6	-	39.0	80.4	59.7	-
Ideal	36.0	4.0	59.4	12.0	-	39.6	79.5	59.6	-
WB-Grainfield	37.0	3.0	55.6	12.0	-	41.4	77.2	59.3	-
Alice	33.0	3.7	57.2	12.0	-	41.6	75.5	58.5	-
Avery	37.0	3.3	56.9	11.2	-	37.4	79.1	58.3	-
Langin	33.0	3.7	55.8	11.7	-	39.0	75.2	57.1	-
SY Monument	35.0	1.0	55.8	12.1	-	38.4	74.8	56.6	-
SY 517 CL2	34.0	5.3	57.9	12.5	-	39.9	73.2	56.6	-
SY Wolf	32.0	1.0	59.8	12.4	-	37.4	75.2	56.3	-
NHH144913-3	34.0	1.0	54.8	12.5	-	37.1	73.2	55.1	-
Wesley	36.0	1.0	56.7	12.3	-	34.7	73.7	54.2	-
NW13493	35.0	3.7	58.5	12.5	-	-	73.1	-	-
WB4595	34.0	1.0	59.7	12.1	-	-	72.9	-	-
Canvas	31.0	2.0	57.9	12.3	-	-	72.4	-	-
SY Wolverine	30.0	1.0	59.7	11.8	-	-	72.1	-	-
Trial Average#	36.0	2.3	58.4	12.1	-	39.5	78.9	60.0	-
LSD (0.05)†	2.3	1.7	1.3	0.7	-	7.9	7.8	-	-
C.V. %‡	-	-	1.5	3.8	-	14.2	7.0	-	-

* 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.

§The trial location was hailed out in 2017.