



2018 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: Proso 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 WideMatch
Fungicide: None
Date seeded: 10/11/2017
Date harvested: 8/8/2018

Table 1. 2018 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 %	2016 (bu/a)	2017 (bu/a)	2018 (bu/a)	2-year (bu/a)	3-year (bu/a)
SY Monument	29	NR	56.1	11.5	92.2	48.6	60.2	54.4	67.0
Cowboy	30	-	57.9	10.5	84.6	46.6	68.9	57.7	66.7
WB-Grainfield	30	-	54.9	11.6	95.1	34.9	63.0	49.0	64.3
Avery	30	-	56.2	10.6	87.0	44.5	61.4	52.9	64.3
SY Wolf	25	-	54.1	12.1	81.1	48.2	62.8	55.5	64.0
LCS Mint	30	-	56.7	11.5	91.4	38.8	57.8	48.3	62.7
Redfield	29	-	58.3	11.5	85.1	41.0	58.1	49.6	61.4
PSB13NEDH-7-140	30	-	56.9	12.1	90.0	43.0	50.6	46.8	61.2
Overland	30	-	56.4	12.1	87.9	46.5	48.6	47.5	61.0
Ideal	32	-	57.7	11.5	79.8	37.0	64.8	50.9	60.5
Oahe	32	-	57.5	11.3	86.7	40.2	54.1	47.1	60.3
Wesley	29	-	57.1	12.5	75.1	48.6	56.7	52.6	60.1
Lyman	31	-	57.4	12.3	77.2	32.7	66.6	49.7	58.9
SY Sunrise	30	-	56.5	11.4	80.2	30.4	62.0	46.2	57.5
Thompson	30	-	57.5	12.0	80.3	41.2	50.8	46.0	57.4
Alice	26	-	57.2	12.2	77.2	36.2	57.2	46.7	56.9
Expedition	28	-	54.4	11.9	64.7	36.2	69.1	52.6	56.7
Keldin	29	-	56.0	11.4	-	43.5	65.6	54.5	-
SY 517 CL2	28	-	57.0	11.2	-	35.5	67.7	51.6	-
Dyna-Gro Long Branch	30	-	56.1	11.5	-	39.7	58.2	49.0	-
Langin	29	-	54.3	12.5	-	36.8	52.1	44.5	-
WB4462	31	-	55.6	12.2	-	-	69.3	-	-
SY Benefit	31	-	53.2	11.5	-	-	61.3	-	-
WB4623CLP	30	-	57.6	12.3	-	-	55.7	-	-
WB4418	28	-	55.3	11.5	-	-	54.6	-	-
LCS Link	32	-	56.5	12.6	-	-	54.4	-	-
LCS Chrome	30	-	57.1	12.3	-	-	54.3	-	-
NHH144913-3	30	-	52.8	12.2	-	-	48.7	-	-
Trial Average#	30	-	56.4	11.8	81.7	41.8	59.8	-	-
LSD(0.05)†	-	-	2.9	0.7	12.1	9.6	8.3	-	-
C.V.%‡	-	-	3.4	3.8	9.8	16.5	10.0	-	-

* 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.