



# 2019 South Dakota Winter Wheat Variety Trial Results Mt. Vernon

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**Cooperator:** Edinger Brothers  
**Location:** 43.722890°, -98.267158°  
**Soil Type:** Houdek-Prosper loams, 0-2% slopes  
**Previous crop:** Soybeans  
**Tillage:** No-till  
**Row spacing:** 8"  
**Seeding Rate:** 1.2 million PLS/acre  
**Fertilizer:**  
    **-Starter:** 90 lbs/acre 30-10-10  
    **-Other:** Stream-bar application of 25 gal/acre 28-0-0 early + 30 gal/acre 28-0-0 at Feekes 5-6  
**Herbicide:**  
    **-Burndown:** None  
    **-Post:** 5 oz LV6 + 0.6 oz Edition TankMix + 6 oz Stark Ultra  
**Fungicide:** 4 oz Propriconazole (applied with herbicide) + 13 oz Prosaro at Feekes 10.5  
**Date seeded:** 10/22/2018  
**Date harvested:** 8/6/2019  
**Notes:** Trial was affected by late planting, waterlogged conditions during the growing season, and a late season outbreak of Bacterial leaf streak.

Table 1. 2019 winter wheat variety performance trial results (average of 4 replications) at Mt. Vernon, 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)
Ideal	33	2.0	54.1	13.3	-	70.9	61.8	66.4	-
SD14115-5	31	3.3	54.4	14.0	-	72.6	59.9	66.2	-
Oahe	36	2.5	55.2	13.8	-	65.3	65.5	65.4	-
Thompson	35	2.3	54.5	14.0	-	67.9	60.8	64.3	-
Redfield	31	3.0	53.8	14.1	-	65.4	59.9	62.7	-
Cowboy	32	2.8	52.3	13.5	-	68.6	55.8	62.2	-
SY Monument	30	3.0	50.9	13.6	-	66.5	57.5	62.0	-
WB4462	29	3.0	55.0	14.3	-	66.9	54.4	60.6	-
SD14113-3	31	3.3	55.0	14.2	-	66.3	54.3	60.3	-
Langin	27	3.8	52.3	13.8	-	65.1	50.5	57.8	-
Overland	31	2.3	54.8	14.4	-	61.4	52.8	57.1	-
LCS Mint	30	2.8	55.0	14.3	-	62.5	50.6	56.6	-
Keldin	32	2.3	53.6	14.9	-	68.0	43.6	55.8	-
Avery	29	3.8	51.9	14.1	-	61.3	48.7	55.0	-
SY Sunrise	25	3.0	54.9	13.7	-	60.3	49.0	54.6	-
LCS Chrome	31	1.8	54.4	15.4	-	64.1	42.1	53.1	-
SY Wolf	27	2.3	53.6	14.6	-	59.6	42.9	51.2	-
SY 517 CL2	27	4.0	55.0	14.8	-	57.1	45.0	51.0	-
Lyman	31	3.0	53.8	16.6	-	62.1	37.8	49.9	-
WB-Grainfield	30	3.5	53.4	14.4	-	60.0	38.9	49.4	-
Wesley	30	3.0	53.4	15.7	-	57.0	41.1	49.1	-
Expedition	30	3.5	54.6	15.2	-	57.7	39.7	48.7	-
NHH144913-3	28	2.5	50.9	15.6	-	59.9	32.2	46.0	-
Alice	23	4.0	53.3	14.9	-	58.0	21.5	39.8	-
NW13493	30	3.3	56.2	13.6	-	-	56.8	-	-
WB4595	28	2.8	55.4	13.7	-	-	48.3	-	-
Canvas	28	3.8	52.7	14.6	-	-	39.4	-	-
SY Wolverine	25	3.8	54.4	15.0	-	-	31.2	-	-
<b>Trial Average#</b>	61	2.9	54.3	14.2	-	63.5	51.3	56.1	-
<b>LSD (0.05)†</b>	2.1	0.6	1.3	0.8	-	3.8	7.5	-	-
<b>C.V. %‡</b>	-	-	1.6	4.2	-	4.3	10.5	-	-

\* 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.