



# 2019 South Dakota Winter Wheat Variety Trial Results Selby

Jonathan Kleinjan | SDSU Extension Crop Production Associate

Sunish Sehgal | SDSU Winter Wheat Breeder

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

**Cooperator:** Mark Stiegelmeier  
**Location:** 45.462081°, -100.019422°  
**Soil Type:** Highmore silt loam, cool, 0-2% slopes  
**Previous crop:** Field peas  
**Tillage:** No-till  
**Row spacing:** 8"  
**Seeding Rate:** 1.2 million PLS/acre  
**Fertilizer:**  
    **Starter:** 10 gal/acre 10-34-0  
    **Other:** 225 lb/acre 46-0-0 + 50 lb/acre 21-0-0-24S spring broadcast  
**Herbicide:**  
    **Burndown:** NR  
    **Post:** 24 oz Hat Trick  
**Fungicide:** 2 oz Priaxor (applied with herbicide)  
**Insecticide:** 1.5 oz Tombstone Helios (applied with herbicide)  
**Date seeded:** 9/13/2018  
**Date harvested:** 8/21/2019

Table 1. 2019 winter wheat variety performance trial results (average of 4 replications) at Selby, SD. Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of each 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)
SY Wolf	NR	NR	60.9	15.0	59.5	85.7	75.8	80.7	73.7
Overland	-	-	60.7	14.4	51.3	88.7	76.9	82.8	72.3
Ideal	-	-	59.5	13.6	53.3	94.6	68.5	81.5	72.1
SY Sunrise	-	-	59.6	13.2	53.9	92.0	70.4	81.2	72.1
SD14113-3	-	-	60.5	14.2	44.9	96.3	73.9	85.1	71.7
Cowboy	-	-	60.2	12.3	49.4	94.6	70.5	82.5	71.5
SY Monument	-	-	59.5	13.2	46.8	88.2	78.8	83.5	71.3
SD14115-5	-	-	61.1	14.2	51.2	90.5	70.0	80.3	70.6
Thompson	-	-	60.6	14.3	50.5	88.4	71.7	80.0	70.2
Oahe	-	-	60.7	14.1	47.3	90.1	72.2	81.1	69.8
Avery	-	-	59.1	12.5	54.7	86.7	64.0	75.3	68.4
Langin	-	-	59.6	13.0	49.4	82.9	69.3	76.1	67.2
Expedition	-	-	60.2	14.3	50.9	87.0	63.5	75.2	67.1
Lyman	-	-	59.9	15.5	43.3	92.1	64.1	78.1	66.5
Redfield	-	-	59.9	13.8	45.6	83.4	64.6	74.0	64.5
Keldin	-	-	60.4	12.8	47.3	83.2	61.1	72.1	63.8
WB-Grainfield	-	-	60.0	13.6	41.0	83.7	66.4	75.0	63.7
Wesley	-	-	58.2	14.4	44.4	85.9	58.3	72.1	62.9
SY 517 CL2	-	-	61.3	15.0	50.3	71.2	66.4	68.8	62.6
LCS Mint	-	-	60.0	13.5	45.0	78.8	60.1	69.4	61.3
Alice	-	-	58.2	14.0	45.7	79.9	57.6	68.7	61.0
WB4462	-	-	59.9	13.6	-	96.9	74.3	85.6	-
LCS Chrome	-	-	60.5	15.4	-	89.9	66.3	78.1	-
NHH144913-3	-	-	58.4	15.0	-	71.3	67.7	69.5	-
WB4595	-	-	62.6	13.9	-	-	76.2	-	-
SY Wolverine	-	-	60.3	14.7	-	-	75.9	-	-
Canvas	-	-	60.3	13.5	-	-	66.2	-	-
NW13493	-	-	61.9	14.2	-	-	65.5	-	-
<b>Trial Average#</b>	-	-	60.1	13.9	47.7	87.7	68.9	77.4	67.8
<b>LSD (0.05)†</b>	-	-	0.9	0.5	10.6	10.6	6.5	-	-
<b>C.V. %‡</b>	-	-	1.1	2.7	13.6	8.7	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.