



# 2020 South Dakota Winter Wheat Variety Trial Results Platte

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**Cooperator:** Lee Quam  
**Location:** 43.427350°, -98.924726°  
**Soil Type:** Eakin silt loam, 0-2% slopes  
**Previous crop:** prevent plant/fallow  
**Tillage:** no-till  
**Row spacing:** 8"  
**Seeding Rate:** 1.2 million PLS/acre  
**Fertilizer:**  
     **-Starter:** 90 lbs/acre 30-10-10  
     **-Other:** 100-30-0 as urea + MAP broadcast applied  
**Herbicide:**  
     **-Burndown:** none  
     **-Post:** 1 pt/acre WideMatch + 3 oz/acre Rimfire Max  
**Fungicide:** none  
**Date seeded:** 9/23/2019  
**Date harvested:** 7/16/2020

Table 1. 2020 winter wheat variety performance trial results (average of 4 replications) at Platte, 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 %	2018 (bu/a)	2019 (bu/a)	2020 (bu/a)	3-year§ (bu/a)
Draper	30	2.5	57.6	12.5	46.2	-	75.6	60.9
WB4462	32	2.5	58.1	13.6	49.4	-	70.1	59.7
Winner	29	2.3	57.3	13.3	45.5	-	71.4	58.5
Keldin	32	1.8	58.4	12.5	40.4	-	76.5	58.4
Ideal	31	2.0	58.3	12.5	41.2	-	74.1	57.7
Langin	29	3.0	57.1	12.7	47.9	-	66.7	57.3
Cowboy	30	2.8	56.7	12.9	47.9	-	64.8	56.4
Expedition	30	2.8	58.7	13.0	48.0	-	64.0	56.0
Oahe	33	2.8	58.9	12.9	42.7	-	67.2	55.0
SY 517 CL	27	2.8	58.5	13.9	43.7	-	64.1	53.9
Overland	30	2.3	58.8	13.3	43.3	-	63.4	53.3
WB-Grainfield	27	2.8	58.0	12.9	39.8	-	66.5	53.2
SY Sunrise	26	2.3	55.7	12.9	38.8	-	67.3	53.0
SY Monument	28	1.8	57.3	13.6	43.7	-	61.4	52.6
Redfield	29	3.5	56.9	13.7	37.1	-	67.7	52.4
Thompson	30	1.8	58.0	13.7	33.9	-	66.8	50.4
LCS Diesel	30	3.0	57.9	13.2	-	-	73.2	-
SY Wolverine	27	2.3	56.8	13.7	-	-	72.9	-
LCS Helix AX	30	2.8	59.4	12.1	-	-	70.6	-
Crescent AX	29	3.3	58.3	13.0	-	-	69.5	-
Guardian	30	2.0	59.9	13.2	-	-	69.3	-
CP7017CA	27	2.5	56.3	12.5	-	-	68.7	-
NE14696	31	2.8	59.3	13.3	-	-	66.5	-
AP 18AX	28	3.0	56.6	12.7	-	-	66.0	-
WB4309	28	2.8	57.2	14.3	-	-	65.5	-
WB4595	29	1.8	58.5	13.1	-	-	64.8	-
CP7050CA	28	2.3	58.6	13.5	-	-	64.0	-
CP7010	26	2.3	58.8	13.2	-	-	62.7	-
CP7909	26	3.8	57.5	12.9	-	-	60.6	-
14NORD-1	31	1.5	59.5	13.5	-	-	60.6	-
NW13493	26	2.5	57.9	13.9	-	-	60.2	-
Northern	29	1.8	54.8	14.3	-	-	59.2	-
Flathead	29	2.8	55.7	13.2	-	-	51.9	-
MTF 1435	35	2.5	53.9	14.4	-	-	43.3	-
<b>Trial Average#</b>	30	2.5	57.8	13.3	41.9	-	66.6	55.4
<b>LSD (0.05)†</b>	2.0	0.6	1.2	0.9	4.4	-	5.7	-
<b>C.V. %‡</b>	4.8	-	1.5	4.7	7.5	-	6.1	-

\* 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.

§ Reported 3-year yields are actually an average of 2018 and 2020 as the location was not harvested in 2019.