



2020 South Dakota Winter Wheat Variety Trial Results Pierre

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Location: 44.292833°, -99.994611°

Soil Type: Dorna silt loam + Millboro silt loam, 0-3% slopes

Previous crop: canola

Tillage: no-till

Row spacing: 8"

Seeding Rate: 1.2 million PLS/acre

Fertilizer:

- Starter: 10 gal/acre 10-34-0
- Other: 35 gal/acre 26.6-0-0-2.6S stream-bar applied at Feekes 6 (jointing)

Herbicide:

- Burndown: glyphosate + 2,4-D (rates not reported)
- Post: 1.5 pt/acre bromoxynil + MCPA

Fungicide: none

Date seeded: 9/19/2019

Date harvested: 7/17/2020

Notes: Excellent growing conditions.

Table 1. 2020 winter wheat variety performance trial results (average of 4 replications) at Pierre, 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 %	2018 (bu/a)	2019 (bu/a)	2020 (bu/a)	2-year (bu/a)	3-year (bu/a)
WB4462	36	1.7	61.6	13.1	71.1	79.6	104.2	91.9	85.0
Ideal	33	1.7	61.9	12.8	65.4	77.8	93.6	85.7	78.9
SY Monument	32	1.0	60.2	12.6	55.7	79.3	94.5	86.9	76.5
Overland	36	1.0	61.5	12.9	48.5	79.8	99.1	89.4	75.8
Keldin	34	1.0	61.8	12.7	55.6	69.9	101.8	85.8	75.8
Thompson	34	1.0	61.4	13.1	51.6	81.0	94.1	87.5	75.5
SY Sunrise	31	1.3	61.2	12.1	51.2	71.1	104.3	87.7	75.5
Redfield	32	1.3	61.3	13.2	58.9	70.8	96.3	83.6	75.3
Oahe	38	2.0	62.0	12.7	53.6	76.4	95.7	86.0	75.2
Winner	33	1.0	61.0	12.9	46.6	76.4	101.6	89.0	74.8
Langin	30	2.0	60.5	12.0	47.4	72.2	103.2	87.7	74.2
Draper	30	1.2	60.8	13.0	43.9	77.8	99.0	88.4	73.5
Cowboy	31	1.0	60.6	11.9	52.3	73.4	91.9	82.6	72.5
Expedition	32	1.3	61.8	12.7	48.1	66.4	95.4	80.9	70.0
SY 517 CL	31	1.5	62.9	12.8	38.2	66.2	94.7	80.5	66.4
WB-Grainfield	31	1.5	61.4	12.8	37.7	66.5	93.1	79.8	65.8
WB4595	31	1.0	63.0	12.1	-	85.4	99.4	92.4	-
SY Wolverine	30	1.0	61.1	12.7	-	77.0	102.9	90.0	-
NW13493	31	2.2	62.0	12.7	-	76.6	92.0	84.3	-
CP7017CAX	31	1.7	60.2	11.9	-	-	105.8	-	-
WB4309	32	1.5	60.5	13.2	-	-	104.5	-	-
LCS Helix AX	31	2.2	61.9	11.6	-	-	104.1	-	-
CP7909	31	2.0	61.3	12.1	-	-	100.1	-	-
AP 18AX	33	1.0	60.5	12.4	-	-	99.5	-	-
LCS Diesel	30	1.7	62.2	13.2	-	-	99.0	-	-
Crescent AX	33	1.3	61.7	12.5	-	-	98.0	-	-
CP7010	31	1.0	63.1	12.1	-	-	95.8	-	-
NE14696	35	1.2	61.1	13.3	-	-	94.7	-	-
Guardian	32	1.0	61.3	13.0	-	-	94.6	-	-
Flathead	33	1.0	61.3	12.9	-	-	92.8	-	-
CP7050CAX	33	1.0	62.7	13.5	-	-	92.4	-	-
Northern	33	1.0	60.0	13.0	-	-	89.8	-	-
14NORD-1	37	1.0	62.9	13.3	-	-	83.6	-	-
MTF 1435	40	1.7	59.3	13.1	-	-	69.8	-	-
Trial Average#	33	1.3	61.4	12.8	51.5	72.8	96.6	86.3	74.4
LSD (0.05)†	1.9	0.7	0.6	0.3	12.0	7.9	6.0	-	-
C.V. %‡	3.5	-	0.7	1.6	15.3	7.8	4.5	-	-

* 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.