



2020 South Dakota Winter Wheat Variety Trial Results Lantry

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Cooperator: Shannon DePoy
Location: 45.0575°, -101.363333°
Soil Type: Morton silt loam, 2-6% slopes
Previous crop: spring wheat
Tillage: no-till
Row spacing: 10"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
-Starter: 10 gal/acre 10-25-0-.25S
-Other: 40 gal/acre 28-0-0 mid-row banded
Herbicide:
-Burndown: not reported
-Post: 16 oz/acre WideMatch
Fungicide: none
Date seeded: 10/7/2019
Date harvested: 7/30/2020

Table 1. 2020 winter wheat variety performance trial results (average of 4 replications) at Lantry, 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)
Keldin	not reported	not reported	59.8	13.2	65.3	65.5	89.5	77.5	73.4
Cowboy	reported	reported	59.1	12.9	69.4	63.7	78.7	71.2	70.6
Oahe	-	-	60.2	13.2	53.6	65.7	91.8	78.8	70.4
Winner	-	-	59.9	13.5	56.9	71.0	82.7	76.8	70.2
Redfield	-	-	59.5	13.6	60.1	63.1	79.2	71.1	67.4
Draper	-	-	58.4	13.7	65.2	69.3	66.2	67.8	66.9
WB-Grainfield	-	-	57.8	13.7	48.3	70.5	72.8	71.6	63.8
SY Monument	-	-	57.6	13.0	63.2	62.3	65.4	63.8	63.6
WB4462	-	-	58.7	13.6	56.1	68.0	66.7	67.4	63.6
Ideal	-	-	59.4	13.3	53.9	62.5	72.0	67.2	62.8
Thompson	-	-	60.0	13.9	58.5	57.4	71.7	64.5	62.5
Overland	-	-	59.6	13.7	57.6	61.0	66.2	63.6	61.6
SY 517 CL	-	-	59.9	14.2	57.2	54.6	64.2	59.4	58.7
SY Sunrise	-	-	59.1	13.1	54.5	56.6	63.6	60.1	58.2
Langin	-	-	58.4	13.0	51.0	54.1	60.5	57.3	55.2
Expedition	-	-	58.5	13.9	43.7	51.6	46.2	48.9	47.2
NW13493	-	-	59.2	13.6	-	58.5	75.0	66.8	-
WB4595	-	-	60.6	12.6	-	70.8	62.5	66.6	-
SY Wolverine	-	-	58.3	13.9	-	59.7	65.1	62.4	-
LCS Diesel	-	-	59.4	13.8	-	-	86.1	-	-
CP7017CAX	-	-	58.3	13.0	-	-	79.3	-	-
14NORD-1	-	-	61.3	13.6	-	-	79.1	-	-
Guardian	-	-	60.4	13.7	-	-	75.8	-	-
WB4309	-	-	58.7	13.6	-	-	73.9	-	-
LCS Helix AX	-	-	59.7	12.9	-	-	69.1	-	-
NE14696	-	-	59.0	13.4	-	-	68.8	-	-
CP7909	-	-	58.9	13.5	-	-	67.5	-	-
Flathead	-	-	58.6	13.9	-	-	65.2	-	-
Crescent AX	-	-	59.3	13.2	-	-	64.6	-	-
Northern	-	-	58.7	14.0	-	-	64.0	-	-
MTF 1435	-	-	56.6	13.7	-	-	56.4	-	-
AP 18AX	-	-	56.2	13.2	-	-	53.8	-	-
CP7050CAX	-	-	59.4	14.0	-	-	53.8	-	-
CP7010	-	-	60.7	13.2	-	-	50.6	-	-
Trial Average#	-	-	59.2	13.5	57.8	61.6	71.0	66.5	63.5
LSD (0.05)†	-	-	0.8	0.4	7.5	9.5	11.0	-	-
C.V. %‡	-	-	0.9	2.0	9.3	10.9	11.1	-	-

* 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.