



2022 South Dakota Winter Wheat Variety Trial Results Martin

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Cooperator: Carl and Mary Kay Novotny
Location: 43.185833°, -101.613056°
Soil Type: Keith silt loam, 3-6% slopes
Previous crop: millet
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: 32 oz/acre RT3
- Post: 18 oz/acre WideMatch
Fungicide: none
Date seeded: 9/21/2021
Date harvested: 7/19/2022



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**SOUTH DAKOTA STATE
UNIVERSITY EXTENSION**

Table 1. 2022 winter wheat variety performance trial results (average of 4 replications) at Martin, SD.

Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of the trial are bolded and shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein (%)#	2020§ (bu/a)#	2021 (bu/a)	2022 (bu/a)	2-year (bu/a)	3-year (bu/a)
Draper	31	1.0	56.4	12.7	not reported	44.5	39.0	41.7	not available
LCS Chrome	32	1.0	57.5	13.1	reported	40.4	41.4	40.9	available
LCS Helix AX	34	1.0	57.7	12.5	-	39.9	40.4	40.2	-
CP7909	27	1.0	56.9	13.7	-	42.7	37.2	39.9	-
SD Andes	25	1.0	56.8	13.1	-	48.5	31.0	39.7	-
Expedition	33	1.0	55.7	13.4	-	40.7	37.9	39.3	-
Redfield	32	1.0	55.9	13.8	-	48.7	29.8	39.3	-
LCS Steel AX	34	1.0	55.5	12.8	-	42.5	36.0	39.2	-
SD Midland	26	1.0	56.5	13.3	-	43.4	32.3	37.9	-
Crescent AX	34	1.0	52.9	13.7	-	41.2	34.5	37.8	-
WB4309	26	1.0	55.5	13.5	-	44.5	30.5	37.5	-
Winner	25	1.0	56.4	13.2	-	39.4	33.5	36.4	-
LCS Photon AX	32	1.0	58.0	13.9	-	39.6	33.2	36.4	-
CP7869	27	1.0	55.9	13.4	-	40.8	31.0	35.9	-
CP7017AX	27	1.0	57.6	12.9	-	32.3	39.6	35.9	-
CP7050AX	27	1.0	58.7	13.6	-	36.4	34.4	35.4	-
AP Clair	24	1.0	54.8	13.9	-	39.3	31.0	35.2	-
MS Iceman	31	1.0	57.1	13.7	-	33.5	36.3	34.9	-
LCS Julep	32	1.0	59.9	13.8	-	33.1	33.3	33.2	-
Ideal	35	1.0	57.9	13.4	-	31.6	34.3	33.0	-
SY Wolverine	23	1.0	55.0	13.4	-	35.1	30.8	32.9	-
AP 18AX	23	1.0	54.2	13.5	-	38.2	26.5	32.3	-
AP Bigfoot	23	1.0	57.2	14.5	-	34.5	26.4	30.4	-
Viking 211	25	1.0	57.3	12.5	-	-	40.5	-	-
Kivari AX	32	1.0	55.4	11.6	-	-	39.9	-	-
MS Maverick	31	1.0	57.9	13.0	-	-	38.3	-	-
Byrd CL Plus	31	1.0	54.9	12.4	-	-	36.5	-	-
CPX72166AX	31	1.0	55.1	13.2	-	-	33.1	-	-
WB4422	28	1.0	59.6	13.6	-	-	32.5	-	-
WB4510CLP	29	1.0	59.0	13.7	-	-	30.7	-	-
Trial Average#	29	1	56.5	13.4	-	39.1	33.8	36.8	-
LSD (0.05)†	-	-	-	-	-	8.1	8.03	-	-
C.V. %‡	-	-	-	-	-	14.8	17	-	-

* Lodging score: 1, perfectly standing; to 5, completely flat.

§ Data was not published in 2020 due to high variability.

Corrected to 13% moisture. Note: Trial averages may include values from experimental lines that are not reported.

† Value required (≥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.