



2020 South Dakota Spring Wheat Variety Trial Results Miller

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Location: 44.419272°, -98.807401°

Soil Type: Glenham-Prosper loams, 1-6% slopes

Previous crop: soybeans

Tillage: no-till

Row spacing: 8"

Seeding Rate: 1.8 million PLS/acre

Fertilizer:

- Starter: 90 lb/acre 30-10-10
- Other: 224 lb/acre 46-0-0 + 56 lb/acre 21-0-0-24 broadcast preeemerge

Herbicide:

- Burndown: NR
- Post: 16 oz acre WideMatch + 12 oz LV6

Fungicide: 5 oz Stratego (applied with herbicide); 6.5 oz Prosaro applied at Feekes 10.5.1 (flowering)

Insecticide: 1.92 oz./acre Grizzly Too applied at Feekes 10.5.1

Date seeded: 4/23/2020

Date harvested: 8/13/2020

Notes: This location was not harvested in 2019. Three-year yields reported are an average of 2018 and 2020.

Table 1. 2020 spring wheat variety performance trial results (average of 4 replications) at Miller, 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)	2-year (bu/a)	3-year (bu/a)
LCS Trigger	34	2.5	59.3	14.0	57.8	-	80.8	-	69.3
CP3530	35	3.0	58.6	16.5	49.2	-	79.0	-	64.1
SY Valda	31	1.3	58.6	16.3	55.3	-	72.5	-	63.9
Driver	33	2.0	58.8	16.6	51.7	-	75.0	-	63.4
CP3888	33	2.3	56.1	16.6	54.7	-	69.0	-	61.8
LCS Cannon	30	3.0	58.8	16.5	51.1	-	72.5	-	61.8
LCS Rebel	35	3.5	59.0	17.1	53.8	-	69.5	-	61.6
WB9719	30	2.5	60.0	15.9	50.9	-	70.9	-	60.9
Advance	31	3.0	59.0	16.0	48.1	-	73.5	-	60.8
MS Chevelle	29	3.0	57.6	15.3	53.2	-	67.6	-	60.4
Shelly	30	1.5	58.0	16.0	47.1	-	73.3	-	60.2
MN-Washburn	31	1.3	58.2	16.2	49.8	-	70.0	-	59.9
Prevail	30	1.5	57.1	15.6	53.4	-	66.2	-	59.8
SY Rustler	30	2.5	57.2	17.0	50.5	-	68.7	-	59.6
WB9590	27	1.0	57.2	16.9	49.1	-	68.4	-	58.7
SY Ingmar	33	1.0	59.0	17.1	47.0	-	70.1	-	58.5
Surpass	31	1.8	56.8	17.0	53.0	-	63.8	-	58.4
WB9479	28	1.3	57.8	17.6	50.4	-	65.4	-	57.9
MS Barracuda	29	3.0	58.1	17.0	48.6	-	66.8	-	57.7
Lang-MN	34	1.5	57.6	17.7	51.2	-	63.6	-	57.4
Boost	35	2.3	57.6	17.2	48.1	-	61.6	-	54.8
Bolles	33	1.8	56.7	18.4	44.4	-	65.2	-	54.8
Focus	36	1.3	58.2	17.1	46.4	-	62.3	-	54.3
Forefront	36	3.8	58.3	16.9	46.8	-	52.4	-	49.6
LCS Buster	34	3.8	56.8	14.2	-	-	82.8	-	-
AP Murdock	29	1.8	57.5	16.2	-	-	72.0	-	-
CP3099A	35	1.0	54.6	14.9	-	-	70.0	-	-
MN-Torgy	29	1.0	58.3	16.8	-	-	69.8	-	-
SY 611 CL2	29	1.5	58.9	16.7	-	-	69.2	-	-
CP3915	32	3.3	58.4	16.4	-	-	69.1	-	-
CP3910	29	2.8	58.9	16.7	-	-	67.9	-	-
CP3903	32	2.0	57.7	16.6	-	-	65.3	-	-
MS Ranchero	28	1.5	57.7	15.7	-	-	64.3	-	-
WB9606	31	2.3	57.1	16.0	-	-	63.4	-	-
ND Frohberg	33	2.5	58.7	17.0	-	-	61.1	-	-
Trial Average#	31	2	57.9	16.5	49.6	-	68.4	-	59.6
LSD(0.05)†	1.4	0.6	0.9	0.5	4.3	-	3.3	-	-
C.V.%‡	3.2	-	1.2	2.2	6.3	-	3.4	-	-

* 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.