

# 2020 South Dakota Spring Wheat Variety Trial Results Agar

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**Cooperator:** Cronin Farms  
**Location:** 44.962612°, -100.084528°  
**Soil Type:** Highmore silt loam, 0-2% 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:** 40 gal/acre 28-0-0 preemerge + 10 gal/acre 28-0-0 streambar applied at Feekes 6 (jointing)  
**Herbicide:**  
    **-Burndown:** NR  
    **-Post:** 1 pt/acre WideMatch + 0.3 oz/acre Affinity  
**Fungicide:** 7 oz/acre Prosaro applied at Feekes 10.5.1 (flowering)  
**Date seeded:** 4/20/2020  
**Date harvested:** 8/12/2020

Table 1. 2020 spring wheat variety performance trial results (average of 4 replications) at Agar, 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	32	1.0	59.0	15.2	56.0	45.2	79.4	62.3	60.2
SY Valda	29	1.3	57.5	17.7	56.2	44.0	62.2	53.1	54.2
Shelly	28	1.0	57.6	16.2	54.3	40.2	66.0	53.1	53.5
LCS Cannon	28	2.3	59.9	17.3	52.4	40.4	66.4	53.4	53.1
MS Chevelle	29	1.3	58.2	16.7	53.8	39.2	65.2	52.2	52.7
Surpass	29	2.3	56.2	17.4	52.6	42.6	62.3	52.4	52.5
Driver	31	1.0	58.2	17.0	51.5	41.9	63.4	52.6	52.3
CP3530	33	1.8	55.8	18.0	51.6	42.0	62.9	52.4	52.1
Advance	27	2.5	58.5	17.0	52.6	39.1	63.8	51.4	51.8
WB9719	28	1.0	57.0	17.6	56.3	43.0	55.0	49.0	51.4
MN-Washburn	28	1.0	57.4	16.7	51.4	34.2	67.4	50.8	51.0
SY Rustler	28	1.0	56.7	17.6	55.4	37.5	58.6	48.1	50.5
Lang-MN	31	1.0	55.9	18.2	54.1	41.7	54.4	48.0	50.1
CP3888	30	1.0	57.3	17.3	49.3	37.2	62.2	49.7	49.6
LCS Rebel	33	2.0	57.9	18.4	49.1	42.7	54.3	48.5	48.7
WB9590	26	1.0	56.0	18.4	49.1	36.8	58.7	47.7	48.2
Prevail	27	1.0	56.4	17.2	53.0	39.4	51.9	45.6	48.1
Forefront	34	1.8	57.0	18.1	48.9	40.1	55.0	47.5	48.0
Focus	34	1.0	57.7	18.9	47.6	41.0	54.8	47.9	47.8
MS Barracuda	27	1.5	56.8	18.1	47.2	42.6	51.9	47.2	47.2
Bolles	30	1.5	55.7	18.8	50.1	36.2	55.0	45.6	47.1
Boost	30	1.0	57.1	17.2	49.1	35.0	55.5	45.2	46.5
SY Ingmar	29	1.0	57.7	18.1	51.8	34.6	49.3	41.9	45.2
WB9479	26	1.0	54.4	19.0	50.1	29.3	48.4	38.9	42.6
SY 611 CL2	27	1.0	59.4	16.3	-	41.8	68.5	55.1	-
MN-Torgy	28	1.0	57.8	18.1	-	44.6	62.4	53.5	-
CP3915	29	1.0	59.5	17.3	-	39.6	64.2	51.9	-
AP Murdock	27	1.0	56.0	17.4	-	40.1	55.4	47.8	-
LCS Buster	31	1.0	57.6	15.5	-	-	76.4	-	-
CP3099A	35	1.0	57.2	15.3	-	-	72.0	-	-
WB9606	31	1.0	57.9	16.0	-	-	69.5	-	-
CP3910	27	2.8	57.6	17.0	-	-	67.4	-	-
MS Ranchero	29	1.3	55.9	16.6	-	-	64.8	-	-
ND Frohberg	32	1.3	57.2	18.1	-	-	57.3	-	-
CP3903	30	1.3	56.8	17.4	-	-	54.7	-	-
<b>Trial Average#</b>	29.4	1.3	57.2	17.5	50.5	38.4	60.9	49.8	50.2
<b>LSD(0.05)†</b>	1.5	0.5	1.0	0.6	3.3	4.4	3.8	-	-
<b>C.V.%‡</b>	3.6	-	1.3	2.7	4.8	8.2	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.