



**SOUTH DAKOTA
STATE UNIVERSITY**
College of Agriculture, Food
and Environmental Sciences

South Dakota State University Extension
South Dakota Agricultural Experiment Station at SDSU

2021 South Dakota Spring Wheat Variety Trial Results Bath

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Cooperator: Gregg and Tom Erickson
Location: 45.375200°, -98.330150°
Soil Type: Great Bend-Beotia silt loams, 2-6% 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: 118-91-45 preplant broadcast
Herbicide:
-Burndown: NR
-Post: 1.3 pt/acre WideMatch + 1.5 pt/acre MCPA
Fungicide: none
Date seeded: 4/16/2021
Date harvested: 8/12/2021

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Table 1. 2021 spring wheat variety performance trial results (average of four replications) at Bath, South Dakota. Entries are sorted by overall three-year yield. Varieties yielding in the top third of the trial are shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2019 (bu/a)#	2020 (bu/a)	2021 (bu/a)	2-year (bu/a)	3-year (bu/a)
LCS Trigger	22	1.0	59.4	15.3	70.7	86.4	59.2	72.8	72.1
SY Valda	20	1.0	60.1	16.0	57.9	81.3	63.2	72.3	67.5
AP Murdock	20	1.0	59.2	16.0	66.9	75.4	52.1	63.7	64.8
CP3530	25	1.0	59.5	16.4	59.3	77.0	57.0	67.0	64.4
CP3915	22	1.0	61.3	17.0	57.4	76.7	58.8	67.8	64.3
Shelly	21	1.0	59.6	16.1	59.6	76.2	57.0	66.6	64.3
LCS Cannon	22	1.0	61.2	16.0	62.3	72.2	58.1	65.1	64.2
WB9719	21	1.0	60.0	17.4	56.1	82.5	53.4	68.0	64.0
MN-Torgy	20	1.0	60.3	17.2	63.4	77.8	49.5	63.7	63.6
Prevail	22	1.0	59.7	16.6	62.3	74.4	52.5	63.5	63.1
SY Ingmar	20	1.0	60.2	16.9	56.3	74.5	56.8	65.7	62.5
SY Rustler	22	1.0	58.8	16.0	59.5	70.0	57.8	63.9	62.4
Driver	24	1.0	60.5	16.1	53.3	76.8	55.4	66.1	61.8
Lang-MN	22	1.0	59.4	16.9	57.5	71.5	54.0	62.7	61.0
MS Barracuda	21	1.0	59.1	16.9	56.0	71.5	55.4	63.4	60.9
Boost	24	1.0	59.8	16.4	49.8	72.6	58.5	65.6	60.3
LCS Rebel	24	1.0	60.1	17.3	53.8	74.2	50.6	62.4	59.5
MN-Washburn	21	1.0	59.2	16.7	51.1	75.7	51.2	63.5	59.3
Bolles	23	1.0	59.5	18.4	50.3	71.8	55.1	63.4	59.0
WB9590	18	1.0	58.8	18.3	61.0	69.3	43.4	56.3	57.9
Surpass	20	1.0	60.1	16.8	56.8	67.0	46.0	56.5	56.6
Focus	25	1.0	59.2	18.3	54.2	67.8	37.7	52.7	53.2
LCS Buster	24	1.0	59.2	14.8	-	85.2	74.3	79.7	-
CP3099A	24	1.0	58.5	14.6	-	80.7	62.6	71.6	-
WB9606	22	1.0	60.0	15.8	-	81.4	58.5	69.9	-
ND Frohberg	22	1.0	58.3	17.4	-	74.5	46.4	60.5	-
MS Rancho	20	1.0	59.1	16.0	-	68.6	51.2	59.9	-
PFS Buns	21	1.0	57.8	16.6	-	-	68.3	-	-
CP3119A	24	1.0	56.7	14.7	-	-	63.1	-	-
CP3188	23	1.0	59.2	15.3	-	-	62.8	-	-
AP Gunsmoke CL2	24	1.0	59.2	16.2	-	-	60.6	-	-
AP Revolution	21	1.0	60.0	16.3	-	-	53.7	-	-
MS Cobra	21	1.0	59.5	17.0	-	-	50.5	-	-
Trial Average#	22	1.0	59.5	16.6	55.8	75.0	55.5	65.0	62.1
LSD (0.05)†	-	-	0.9	0.7	5.2	3.1	3.5	-	-
C.V. %‡	-	-	1.0	2.4	6.7	3.0	3.9	-	-

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

Trial averages may include values from experimental lines that are not reported, yield is reported @13%M, protein is @12%M.

† 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.