



2021 South Dakota Spring Wheat Variety Trial Results Sturgis

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Cooperator: South Dakota State University Sturgis Research Farm
Location: 44.424167°, -103.376111°
Soil Type: Nunn loam, 0-2% slopes
Previous crop: field peas
Tillage: no-till
Row spacing: 10"
Seeding Rate: 1.8 million PLS/acre
Fertilizer:
-Starter: 6 gal/acre 10-25-0-5S-.25Z
-Other: 40 gal/acre 28-0-0 mid-row banded
Herbicide:
-Burndown: 16 oz/acre WideMatch + 24 oz/acre Roundup
-Post: none
Fungicide: none
Date seeded: 3/24/2021
Date harvested: 7/28/2021



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Table 1. 2021 spring wheat variety performance trial results (average of four replications) at Sturgis, South Dakota. Entries are sorted by overall two-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	25	not reported	63.7	15.5	not harvested	79.2	47.9	63.5	not available
CP3099A	25		60.5	15.1		85.7	39.5	62.6	
LCS Buster	24	-	61.9	15.6	-	81.2	43.0	62.1	-
Driver	27	-	63.1	15.7	-	70.9	48.7	59.8	-
WB9719	23	-	64.8	15.4	-	68.8	50.2	59.5	-
SY Ingmar	21	-	62.4	16.7	-	72.8	45.5	59.1	-
MS Ranchero	29	-	62.0	15.9	-	65.7	49.6	57.6	-
Lang-MN	27	-	62.2	16.9	-	70.7	43.5	57.1	-
Shelly	23	-	63.2	16.3	-	65.0	48.4	56.7	-
LCS Rebel	27	-	63.5	16.4	-	63.8	49.5	56.6	-
LCS Cannon	27	-	63.2	16.1	-	61.6	51.5	56.6	-
MN-Washburn	23	-	61.6	16.4	-	68.3	44.6	56.5	-
CP3530	28	-	61.8	16.8	-	65.0	47.9	56.4	-
MN-Torgy	25	-	64.6	16.8	-	63.5	49.4	56.4	-
CP3915	25	-	62.6	16.6	-	64.0	46.4	55.2	-
ND Frohberg	27	-	62.7	16.4	-	67.0	42.9	54.9	-
WB9606	25	-	62.5	15.2	-	63.0	46.6	54.8	-
WB9590	23	-	62.0	16.3	-	61.1	48.1	54.6	-
SY Rustler	25	-	60.1	17.0	-	62.7	44.5	53.6	-
Bolles	26	-	61.0	18.1	-	65.2	41.9	53.5	-
Surpass	25	-	61.7	16.6	-	60.9	44.2	52.5	-
SY Valda	20	-	61.9	16.6	-	58.1	44.8	51.5	-
MS Barracuda	25	-	60.3	16.9	-	60.6	42.2	51.4	-
Prevail	24	-	61.7	15.9	-	54.8	46.9	50.9	-
Focus	19	-	62.5	16.9	-	58.2	39.0	48.6	-
AP Murdock	27	-	59.8	17.2	-	55.3	40.9	48.1	-
Boost	26	-	61.7	17.1	-	54.3	39.1	46.7	-
CP3188	26	-	61.2	15.5	-	-	51.3	-	-
AP Gunsmoke CL2	24	-	60.8	17.5	-	-	50.5	-	-
MS Cobra	25	-	63.1	16.4	-	-	49.9	-	-
AP Revolution	24	-	53.7	16.7	-	-	46.4	-	-
PFS Buns	20	-	59.6	16.9	-	-	42.9	-	-
CP3119A	25	-	59.0	15.0	-	-	42.8	-	-
Trial Average#	25	-	61.9	16.4	-	65.0	45.5	55.6	-
LSD (0.05)†	-	-	3.5	0.5	-	6.9	5.4	-	-
C.V. %‡	-	-	4.0	2.4	-	7.6	8.4	-	-

* 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.