



2020 South Dakota Spring Wheat Variety Trial Results Sturgis

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Cooperator: SDSU Sturgis Research Farm, Chris Graham, manager
Location: 44.424167°, -103.376111
Soil Type: Nunn clay loam, 0-2% slopes
Previous crop: dry 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: 35 gal/acre 28-0-0 mid-row banded
Herbicide:
-Burndown: none
-Post: 16 oz/acre WideMatch
Fungicide: none
Date seeded: 4/21/2020
Date harvested: 8/7/2020
Notes: Trial was lost in 2019. Three-year yield averages are an average of 2018 and 2020.

Table 1. 2020 spring wheat variety performance trial results (average of 4 replications) at Sturgis, 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	not reported	not reported	61.3	15.1	54.2	no data	79.2	no data	66.7
CP3888	reported	reported	61.3	16.5	49.2	data	74.4	data	61.8
Driver	-	-	61.7	15.2	47.2	-	70.9	-	59.0
CP3530	-	-	60.5	17.6	53.1	-	65.0	-	59.0
MN-Washburn	-	-	61.1	16.9	48.0	-	68.3	-	58.2
SY Ingmar	-	-	61.8	17.0	43.0	-	72.8	-	57.9
Lang-MN	-	-	61.6	17.2	44.1	-	70.7	-	57.4
Advance	-	-	60.5	15.4	49.8	-	64.3	-	57.1
WB9719	-	-	62.4	16.8	44.8	-	68.8	-	56.8
Shelly	-	-	61.4	17.0	48.4	-	65.0	-	56.7
LCS Rebel	-	-	61.7	17.2	47.1	-	63.8	-	55.4
MS Chevelle	-	-	60.6	16.3	43.2	-	66.8	-	55.0
Bolles	-	-	60.5	19.0	44.4	-	65.2	-	54.8
LCS Cannon	-	-	62.9	16.7	47.8	-	61.6	-	54.7
SY Valda	-	-	62.0	16.5	50.9	-	58.1	-	54.5
SY Rustler	-	-	60.2	16.1	45.8	-	62.7	-	54.2
WB9590	-	-	61.3	17.1	47.0	-	61.1	-	54.0
Surpass	-	-	61.4	16.6	47.0	-	60.9	-	54.0
Forefront	-	-	61.3	17.0	40.4	-	66.9	-	53.6
MS Barracuda	-	-	61.3	16.8	44.4	-	60.6	-	52.5
Prevail	-	-	60.5	17.1	45.3	-	54.8	-	50.1
Focus	-	-	61.8	17.6	41.1	-	58.2	-	49.6
Boost	-	-	61.1	17.8	42.1	-	54.3	-	48.2
WB9479	-	-	61.2	17.5	43.8	-	50.8	-	47.3
CP3099A	-	-	59.6	14.3	-	-	85.7	-	-
LCS Buster	-	-	60.1	14.9	-	-	81.2	-	-
CP3910	-	-	62.5	17.2	-	-	68.2	-	-
ND Frohberg	-	-	60.4	17.3	-	-	67.0	-	-
SY 611 CI2	-	-	61.8	17.2	-	-	65.7	-	-
MS Ranchero	-	-	60.1	16.0	-	-	65.7	-	-
CP3915	-	-	62.4	16.5	-	-	64.0	-	-
CP3903	-	-	61.9	16.5	-	-	63.8	-	-
MN-Torgy	-	-	61.8	17.8	-	-	63.5	-	-
WB9606	-	-	61.8	16.3	-	-	63.0	-	-
AP Murdock	-	-	60.0	17.3	-	-	55.3	-	-
Trial Average#	-	-	61.1	16.8	44.9	-	65.0	-	55.4
LSD(0.05)†	-	-	0.9	1.1	4.4	-	6.9	-	-
C.V.%‡	-	-	1.1	2.0	7.1	-	7.6	-	-

* 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.