



2020 South Dakota Spring Wheat Variety Trial Results Aberdeen

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Cooperator: Locken Farms
Location: 45.485252°, -98.558349°
Soil Type: Barnes-Cresbard-Tonka complex, 0-3% 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: 116-40-40-13S preemerge broadcast
Herbicide:
 -Burndown: none
 -Post: none
Fungicide: 6.5 oz./acre Prosaro applied at Feekes 10.5.1 (flowering)
Date seeded: 4/20/2020
Date harvested: 8/21/2019

Table 1. 2020 spring wheat variety performance trial results (average of 4 replications) at Aberdeen, 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	31	1.0	58.7	14.2	41.9	70.7	86.4	78.5	66.3
SY Valda	28	1.0	58.9	16.2	39.0	57.9	81.3	69.6	59.4
WB9719	28	1.0	58.8	16.1	36.7	56.1	82.5	69.3	58.5
Shelly	28	1.0	60.1	14.4	34.7	59.6	76.2	67.9	56.8
Prevail	25	1.0	60.5	15.3	32.3	62.3	74.4	68.4	56.3
SY Ingmar	27	1.0	60.5	15.8	38.0	56.3	74.5	65.4	56.3
CP3530	32	1.5	58.8	15.6	32.4	59.3	77.0	68.1	56.2
LCS Cannon	25	1.0	61.0	16.3	32.7	62.3	72.2	67.3	55.7
MS Chevelle	26	1.3	58.4	14.9	33.6	53.8	76.4	65.1	54.6
LCS Rebel	30	1.5	58.4	16.6	34.8	53.8	74.2	64.0	54.3
Driver	30	1.0	59.6	15.5	32.5	53.3	76.8	65.1	54.2
Advance	26	2.5	61.2	14.9	34.9	51.8	75.9	63.8	54.2
MN-Washburn	28	1.0	59.0	15.9	34.2	51.1	75.7	63.4	53.7
Lang-MN	30	1.0	59.7	16.4	31.9	57.5	71.5	64.5	53.6
SY Rustler	25	1.0	58.6	15.9	30.8	59.5	70.0	64.7	53.4
WB9479	24	1.0	58.4	17.3	31.6	59.3	68.9	64.1	53.3
WB9590	25	1.0	58.5	16.6	29.4	61.0	69.3	65.1	53.2
CP3888	28	1.0	59.0	15.8	34.3	50.2	73.5	61.9	52.7
Boost	31	1.8	59.3	16.0	34.3	49.8	72.6	61.2	52.2
MS Barracuda	25	1.0	59.6	16.4	27.8	56.0	71.5	63.7	51.8
Forefront	32	1.0	58.8	16.3	27.6	56.8	70.2	63.5	51.5
Focus	30	1.3	59.0	16.8	30.4	54.2	67.8	61.0	50.8
Surpass	26	1.3	58.3	16.2	27.4	56.8	67.0	61.9	50.4
Bolles	29	1.3	58.4	17.2	28.7	50.3	71.8	61.0	50.2
AP Murdock	25	1.0	60.3	15.3	-	66.9	75.4	71.1	-
MN-Torgy	27	1.0	59.8	16.3	-	63.4	77.8	70.6	-
CP3915	30	1.0	60.0	15.9	-	57.4	76.7	67.1	-
SY 611 CL2	27	1.0	60.2	15.8	-	54.8	75.4	65.1	-
LCS Buster	32	1.0	57.3	13.8	-	-	85.2	-	-
WB9606	26	1.0	59.0	14.9	-	-	81.4	-	-
CP3099A	33	1.0	56.2	15.2	-	-	80.7	-	-
ND Frohberg	31	1.0	59.6	15.7	-	-	74.5	-	-
CP3910	27	1.0	59.0	16.0	-	-	73.3	-	-
CP3903	29	1.0	59.4	15.9	-	-	72.0	-	-
MS Ranchero	27	1.3	56.7	15.9	-	-	68.6	-	-
Trial Average#	28	1.1	59.3	15.8	32.6	55.8	75.0	65.8	54.6
LSD(0.05)†	1.4	0.3	0.8	0.6	7.1	5.2	3.1	-	-
C.V.%‡	3.7	-	1.0	2.7	15.6	6.7	3.0	-	-

* 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.