



2019 South Dakota Spring Wheat Variety Trial Results Aberdeen

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Cooperator: Locken Farms
Location: GPS: 45.489653°, -98.562760°
Soil Type: Barnes-Svea loams, 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: 136-30-40-19S-1Z preplant broadcast
Herbicide:
 -Burndown: none
 -Post: none
Fungicide: none
Date seeded: 5/3/2019
Date harvested: 8/21/2019

Table 1a. 2019 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 %	2017 (bu/a)	2018 (bu/a)	2019 (bu/a)	2-year (bu/a)	3-year (bu/a)
LCS Trigger	33	2.8	56.9	14.1	44.9	41.9	70.7	56.3	52.5
WB9719	29	2.3	55.2	15.7	45.4	36.7	56.1	46.4	46.1
Shelly	30	2.8	56.1	15.7	41.8	34.7	59.6	47.1	45.4
SY Valda	30	3.0	55.4	16.1	38.2	39.0	57.9	48.5	45.0
CP3530	33	3.0	56.5	17.0	42.4	32.4	59.3	45.8	44.7
SY Ingmar	33	1.5	57.1	16.4	38.6	38.0	56.3	47.1	44.3
Lang-MN	33	2.5	56.0	16.7	39.7	31.9	57.5	44.7	43.0
LCS Rebel	34	3.8	57.6	16.5	38.6	34.8	53.8	44.3	42.4
Ambush	30	2.3	56.2	16.2	32.7	35.1	58.9	47.0	42.2
Advance	30	3.3	53.6	15.6	39.3	34.9	51.8	43.3	42.0
Faller	33	3.0	55.5	15.9	36.1	32.1	57.0	44.5	41.7
WB9653	28	2.8	54.2	15.5	34.3	35.0	55.3	45.1	41.5
WB9479	28	2.3	55.5	17.1	32.4	31.6	59.3	45.5	41.1
Prosper	33	3.3	54.5	15.6	33.2	35.1	54.8	44.9	41.0
SD4625	32	3.3	55.2	16.4	36.5	32.5	53.3	42.9	40.8
Forefront	34	3.5	57.7	16.3	37.5	27.6	56.8	42.2	40.6
MS Chevelle	29	4.0	54.7	15.6	34.4	33.6	53.8	43.7	40.6
SY Rustler	30	2.5	55.2	16.2	29.0	30.8	59.5	45.2	39.8
Prevail	30	2.3	56.6	15.1	24.2	32.3	62.3	47.3	39.6
Boost	33	3.5	55.1	16.7	34.1	34.3	49.8	42.0	39.4
WB9590	29	1.5	56.1	16.6	26.9	29.4	61.0	45.2	39.1
Bolles	30	2.5	53.7	17.8	35.2	28.7	50.3	39.5	38.1
Surpass	30	3.5	54.2	16.8	29.2	27.4	56.8	42.1	37.8
RB07	30	3.8	54.7	16.0	28.4	28.7	55.9	42.3	37.6
Linkert	28	1.3	53.9	16.8	30.1	29.4	48.2	38.8	35.9
MS Camaro	28	2.3	55.6	16.0	21.3	30.8	54.6	42.7	35.5
Focus	35	3.3	56.5	16.6	21.1	30.4	54.2	42.3	35.2
LCS Cannon	30	2.3	57.6	15.8	-	32.7	62.3	47.5	-
Trial Average#	31	2.8	55.3	16.2	33.3	32.6	55.8	44.6	41.2
LSD(0.05)†	-	-	2.3	0.4	5.3	7.1	5.2	-	-
C.V.%‡	-	-	2.9	1.9	11.4	15.6	6.7	-	-

* 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.

Table 1b. 2019 spring wheat variety performance trial results (average of 4 replications) at Aberdeen, SD, continued. 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 %	2017 (bu/a)	2018 (bu/a)	2019 (bu/a)	2-year (bu/a)	3-year (bu/a)
CP3888	31.0	2.3	53.6	16.4	-	34.3	50.2	42.2	-
MS Barracuda	28.8	3.0	55.1	16.6	-	27.8	56.0	41.9	-
AP Murdock	30.3	2.5	54.9	15.4	-	-	66.9	-	-
MN14105-7	32.0	2.3	57.2	16.4	-	-	63.4	-	-
Commander	30.5	1.5	56.1	15.8	-	-	60.0	-	-
CP3915	30.8	3.0	55.3	16.0	-	-	57.4	-	-
MS-19SW2	31.8	2.8	54.1	15.9	-	-	55.9	-	-
SY 611 CL2	28.8	2.8	55.2	16.5	-	-	54.8	-	-
CP3939	32.5	2.0	54.4	16.8	-	-	52.2	-	-
TCG-Heartland	29.5	1.8	55.0	17.2	-	-	51.9	-	-
TCG-Spitfire	31.3	1.5	52.8	15.5	-	-	51.7	-	-
MN-Washburn	30.8	2.3	55.2	16.4	-	-	51.1	-	-
TCG-Climax	32.5	1.3	56.3	18.1	-	-	50.2	-	-
TCG-Wildfire	31.5	1.8	54.7	16.2	-	-	50.2	-	-
MS-19SW1	35.5	4.0	50.7	17.7	-	-	41.4	-	-
Trial Average#	31	2.8	55.3	16.2	33.3	32.6	55.8	44.6	41.2
LSD(0.05)†	-	-	2.3	0.4	5.3	7.1	5.2	-	-
C.V.%‡	-	-	2.9	1.9	11.4	15.6	6.7	-	-

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

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