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SOUTH DAKOTA STATE UNIVERSITY®
AGRONOMY, HORTICULTURE, & PLANT SCIENCE DEPARTMENT

2019 South Dakota Spring Wheat Variety Trial Results Claire City

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Cooperator: Leon Koeppel
Location: 45.806754°, -97.088719°
Soil Type: Peever clay loam, 2-6% slopes
Previous crop: Soybeans
Tillage: Conventional
Row spacing: 8"
Seeding Rate: 1.8 million PLS/acre
Fertilizer:
 -Starter: 90 lb/acre 30-10-10
 -Other: 200 lb/acre 46-0-0, preplant incorporated
Herbicide:
 -Burndown: none
 -Post: 1.5 pt/acre Bronate Advanced + 16.4 oz/acre Axial XL
Fungicide: none
Date seeded: 5/31/2019
Date harvested: 9/20/2019
Notes: This trial location was new in 2018, therefore 3-year averages are not available.

Table 1a. 2019 spring wheat variety performance trial results (average of 4 replications) at Claire City, SD. Entries are sorted by overall 2-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)
CP3530	-	-	56.2	16.3	-	48.7	56.6	52.6	-
WB9653	-	-	56.6	15.1	-	53.9	48.5	51.2	-
SY Ingmar	-	-	57.0	16.1	-	47.7	53.0	50.4	-
Prevail	-	-	55.5	15.1	-	52.0	48.2	50.1	-
SY Valda	-	-	56.3	15.4	-	47.7	52.1	49.9	-
SY Rustler	-	-	55.1	15.5	-	46.3	53.0	49.7	-
Surpass	-	-	55.2	16.0	-	48.0	51.2	49.6	-
SD4625	-	-	57.1	15.1	-	44.6	51.0	47.8	-
WB9590	-	-	54.7	15.9	-	46.0	48.4	47.2	-
WB9719	-	-	57.4	14.7	-	49.1	44.1	46.6	-
Boost	-	-	55.8	15.6	-	49.2	43.8	46.5	-
Faller	-	-	54.3	15.0	-	46.2	43.2	44.7	-
LCS Trigger	-	-	56.2	13.2	-	48.2	41.0	44.6	-
LCS Cannon	-	-	56.2	15.8	-	47.4	40.4	43.9	-
Forefront	-	-	56.6	16.0	-	41.9	45.6	43.8	-
Focus	-	-	58.1	16.4	-	42.5	44.5	43.5	-
Lang-MN	-	-	56.2	16.1	-	46.0	40.4	43.2	-
WB9479	-	-	55.3	15.9	-	40.5	45.5	43.0	-
Advance	-	-	55.7	15.0	-	35.9	48.9	42.4	-
LCS Rebel	-	-	56.5	16.2	-	42.5	41.8	42.1	-
Ambush	-	-	56.0	16.3	-	42.3	41.6	41.9	-
Linkert	-	-	55.5	16.2	-	42.8	40.5	41.6	-
Prosper	-	-	54.6	15.1	-	39.9	40.5	40.2	-
CP3888	-	-	53.8	16.4	-	42.5	37.2	39.9	-
MS Camaro	-	-	54.8	16.3	-	39.1	40.4	39.7	-
MS Barracuda	-	-	54.1	16.9	-	40.0	39.3	39.7	-
MS Chevelle	-	-	53.4	14.9	-	39.9	38.2	39.0	-
RB07	-	-	53.0	15.4	-	32.9	41.3	37.1	-
Trial Average#	-	-	55.5	15.7	-	44.6	44.4	44.1	-
LSD(0.05)†	-	-	1.6	0.5	-	9.5	6.7	-	-
C.V.%‡	-	-	2.1	2.1	-	15.2	10.8	-	-

* 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 Claire City, SD, continued. Entries are sorted by overall 2-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)
Bolles	-	-	53.4	18.3	-	38.7	34.8	36.7	-
Shelly	-	-	54.0	15.2	-	33.7	35.5	34.6	-
SY 611 CL2	-	-	56.4	15.6	-	-	52.2	-	-
MN14105-7	-	-	55.9	15.7	-	-	50.9	-	-
AP Murdock	-	-	56.7	15.2	-	-	48.1	-	-
CP3915	-	-	56.5	15.7	-	-	47.4	-	-
Commander	-	-	56.9	15.7	-	-	47.1	-	-
CP3939	-	-	55.4	16.2	-	-	44.3	-	-
TCG-Wildfire	-	-	54.1	15.7	-	-	43.9	-	-
MS-19SW2	-	-	51.0	15.6	-	-	42.3	-	-
TCG-Climax	-	-	58.0	17.1	-	-	42.0	-	-
TCG-Heartland	-	-	55.7	16.0	-	-	40.5	-	-
MS-19SW1	-	-	53.9	17.2	-	-	40.4	-	-
TCG-Spitfire	-	-	53.4	14.9	-	-	40.1	-	-
MN-Washburn	-	-	55.3	15.2	-	-	36.1	-	-
Trial Average#	-	-	55.5	15.7	-	44.6	44.4	44.1	-
LSD(0.05)†	-	-	1.6	0.5	-	9.5	6.7	-	-
C.V.%‡	-	-	2.1	2.1	-	15.2	10.8	-	-

* 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.

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