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

2019 South Dakota Spring Wheat Variety Trial Results Selby

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Cooperator: Tom Fiedler
Location: GPS: 45.492481°, -100.027865°
Soil Type: Highmore silt loam, cool, 2-6% slopes
Previous crop: Soybeans
Tillage: No-till
Row spacing: 8"
Seeding Rate: 1.8 million PLS/acre
Fertilizer:
 -Starter: 80 lb/acre 30-10-10
 -Other: 320 lb/acre 46-0-0; 75 lb/acre 11-52-0 preplant broadcast
Herbicide:
 -Burndown: none
 -Post: 1.5 pt/acre Bromac
Fungicide: 0.65 oz/acre Prosaro
Date seeded: 5/6/2019
Date harvested: 8/28/2019
Notes: This location was hailed out in 2017, therefore 3-year averages are not available.

The trial was hit by hail just prior to harvest in 2019 and some varieties sustained losses due to shattering. Shatter ratings are provided in the data table.

Table 1a. 2019 spring wheat variety performance trial results (average of 4 replications) at Selby, 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)*	Shatter (1-6)§	Test Wt (lbs)	Protein %	2018 (bu/a)	2019 (bu/a)	2-year (bu/a)
LCS Trigger	31	2.5	1.0	61.6	13.6	84.6	77.0	80.8
CP3530	33	2.3	1.0	58.7	16.8	76.0	72.6	74.3
Faller	32	2.8	1.0	59.1	15.3	79.2	68.4	73.8
SY Valda	30	2.5	1.0	58.1	15.8	81.2	65.6	73.4
WB9653	29	2.0	1.0	59.7	15.2	79.4	66.5	73.0
Prosper	33	2.8	1.0	59.5	15.0	79.8	63.9	71.8
WB9719	29	2.3	1.3	60.4	15.3	78.8	63.7	71.2
WB9590	28	2.3	2.0	61.0	16.5	78.2	63.4	70.8
Advance	29	2.5	1.0	60.3	15.4	75.0	66.0	70.5
SY Ingmar	30	2.3	1.5	61.4	16.2	73.8	65.1	69.4
SY Rustler	30	2.8	1.0	58.9	16.2	73.0	62.6	67.8
Shelly	29	2.0	1.0	59.3	14.9	73.6	60.8	67.2
SD4625	31	2.3	1.0	60.6	15.5	73.8	60.5	67.2
Ambush	30	2.5	1.0	59.5	16.3	69.2	64.0	66.6
LCS Cannon	28	1.8	1.3	59.7	15.2	69.5	63.4	66.4
CP3888	29	2.3	1.3	59.1	16.3	72.3	60.0	66.1
MS Chevelle	30	2.5	2.5	59.7	15.2	76.3	55.9	66.1
Prevail	30	2.5	1.0	60.1	15.4	70.5	60.6	65.5
Surpass	31	2.5	1.0	59.7	16.4	72.1	58.4	65.2
LCS Rebel	32	3.3	1.3	58.9	16.9	73.3	55.5	64.4
RB07	31	3.3	1.0	58.5	16.1	66.0	62.3	64.2
Focus	34	3.0	2.5	60.5	16.6	69.6	56.3	63.0
WB9479	29	2.0	2.3	59.7	17.3	68.5	57.2	62.8
Lang-MN	31	2.5	1.3	58.1	16.3	66.9	57.8	62.4
Boost	32	2.5	1.0	59.9	16.2	65.8	58.3	62.0
MS Barracuda	28	2.0	1.0	58.9	16.4	66.8	57.0	61.9
Forefront	32	3.3	2.0	60.5	16.2	70.4	53.1	61.7
Bolles	30	2.5	1.0	57.9	18.1	63.5	53.3	58.4
Trial Average#	30	2.3	1.3	59.5	16.0	70.7	60.0	66.7
LSD(0.05)†	-	-	-	2.1	0.5	3.5	4.2	-
C.V.%‡	-	-	-	2.5	2.1	3.5	5.1	-

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

§ Shatter score: 1, 0% shatter loss; 2, 20% shatter loss; 3, 40% shatter loss;...6, 100% shatter loss.

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 Selby, 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)*	Shatter (1-6)§	Test Wt (lbs)	Protein %	2018 (bu/a)	2019 (bu/a)	2-year (bu/a)
MS Camaro	28	2.5	1.0	57.3	16.1	61.7	53.8	57.8
Linkert	28	1.5	1.0	59.9	16.4	61.4	50.4	55.9
AP Murdock	28	2.3	1.0	61.1	15.6	-	74.8	-
SY 611 CL2	28	1.8	2.3	59.3	15.4	-	65.8	-
CP3915	30	1.8	1.0	62.0	16.0	-	65.8	-
MN14105-7	30	1.5	1.0	59.7	16.1	-	64.8	-
TCG-Spitfire	30	2.3	1.0	58.7	15.0	-	62.3	-
Commander	31	2.0	3.0	56.7	15.7	-	60.3	-
MN-Washburn	28	1.0	1.0	59.1	15.5	-	58.1	-
TCG-Climax	31	1.0	1.0	60.3	17.7	-	57.4	-
TCG-Wildfire	32	2.3	1.0	59.7	16.3	-	57.4	-
MS-19SW1	36	3.5	1.8	57.3	16.7	-	56.9	-
CP3939	31	2.0	1.3	59.3	17.0	-	56.0	-
MS-19SW2	31	2.5	1.0	57.7	15.9	-	55.7	-
TCG-Heartland	29	2.0	2.3	60.4	16.8	-	53.6	-
Trial Average#	30	2.3	1.3	59.5	16.0	70.7	60.0	66.7
LSD(0.05)†	-	-	-	2.1	0.5	3.5	4.2	-
C.V.%‡	-	-	-	2.5	2.1	3.5	5.1	-

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

§ Shatter score: 1, 0% shatter loss; 2, 20% shatter loss; 3, 40% shatter loss;...6, 100% shatter loss.

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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