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

2019 South Dakota Spring Wheat Variety Trial Results Agar

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Cooperator: Cronin Farms
Location: GPS: 44.925834°, -100.102881°
Soil Type: Agar Silt loam, 0-2% 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: 35 gal/acre 28-0-0 preplant broadcast
Herbicide:
 -Burndown: NR
 -Post: 1 pt/acre WideMatch
Fungicide: none
Date seeded: 4/25/2019
Date harvested: 8/22/2019

Table 1a. 2019 spring wheat variety performance trial results (average of 4 replications) at Agar, 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	26	2.5	55.6	15.0	46.2	56.0	45.2	50.6	49.1
WB9653	25	2.3	57.9	16.0	46.8	56.1	43.8	49.9	48.9
SY Valda	26	1.3	55.4	16.7	46.2	56.2	44.0	50.1	48.8
Lang-MN	26	2.8	58.9	16.7	44.1	54.1	41.7	47.9	46.6
Shelly	26	1.8	57.9	16.4	42.4	54.3	40.2	47.3	45.6
WB9719	26	1.3	57.7	16.3	37.5	56.3	43.0	49.6	45.6
MS Chevelle	26	2.5	56.2	15.9	42.8	53.8	39.2	46.5	45.3
SY Rustler	25	1.8	56.6	16.5	42.5	55.4	37.5	46.5	45.1
Surpass	28	2.5	57.9	16.9	40.0	52.6	42.6	47.6	45.1
SD4625	29	2.0	57.5	16.8	39.9	51.5	41.9	46.7	44.4
CP3530	32	2.8	58.1	18.0	38.8	51.6	42.0	46.8	44.1
Prosper	30	2.5	58.1	16.4	37.8	52.1	41.4	46.7	43.8
LCS Rebel	29	2.8	59.1	17.7	38.7	49.1	42.7	45.9	43.5
Advance	26	2.8	55.8	16.8	38.8	52.6	39.1	45.8	43.5
Prevail	28	2.3	58.5	16.0	37.1	53.0	39.4	46.2	43.2
Forefront	29	2.8	59.1	17.2	40.5	48.9	40.1	44.5	43.1
Ambush	27	2.5	57.9	17.3	39.4	47.9	41.7	44.8	43.0
SY Ingmar	28	1.3	58.3	17.9	42.1	51.8	34.6	43.2	42.8
Faller	30	2.5	57.4	15.8	38.4	46.6	41.0	43.8	42.0
RB07	26	3.0	56.6	17.4	36.0	51.9	37.6	44.7	41.8
WB9590	23	1.5	55.4	17.9	39.4	49.1	36.8	42.9	41.7
Focus	30	3.0	58.3	16.8	34.5	47.6	41.0	44.3	41.0
Bolles	28	2.8	55.6	19.8	33.0	50.1	36.2	43.2	39.8
Boost	29	2.0	56.6	17.2	34.6	49.1	35.0	42.0	39.5
WB9479	24	1.3	54.2	18.2	37.1	50.1	29.3	39.7	38.8
Linkert	26	1.3	57.9	17.9	35.2	45.8	34.2	40.0	38.4
MS Camaro	24	1.3	57.9	17.0	33.1	43.5	33.2	38.3	36.6
LCS Cannon	25	2.3	61.0	16.4	-	52.4	40.4	46.4	-
Trial Average#	27	2.0	57.2	17.0	39.2	50.5	38.4	45.3	43.4
LSD(0.05)†	-	-	2.4	0.5	3.6	3.3	4.4	-	-
C.V.%‡	-	-	3.0	2.0	6.6	4.8	8.2	-	-

* 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 Agar, 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)
MS Barracuda	25	2.5	58.9	17.2	-	47.2	42.6	44.9	-
CP3888	28	1.5	55.0	17.3	-	49.3	37.2	43.3	-
MN14105-7	25	1.3	58.3	17.2	-	-	44.6	-	-
SY 611 CL2	25	1.0	60.3	17.3	-	-	41.8	-	-
MS-19SW2	29	2.0	52.9	16.8	-	-	41.6	-	-
AP Murdock	25	1.3	59.3	16.7	-	-	40.1	-	-
Commander	27	1.5	55.0	16.9	-	-	39.9	-	-
CP3915	28	1.8	59.3	17.1	-	-	39.6	-	-
TCG-Spitfire	28	1.8	53.5	16.5	-	-	39.2	-	-
TCG-Wildfire	28	1.8	57.5	16.9	-	-	35.1	-	-
TCG-Heartland	25	1.8	55.4	18.0	-	-	35.0	-	-
CP3939	27	1.8	56.8	17.5	-	-	34.7	-	-
MN- Washburn	26	1.5	57.5	16.5	-	-	34.2	-	-
TCG-Climax	30	1.3	56.1	19.0	-	-	32.4	-	-
MS-19SW1	30	3.3	53.2	17.8	-	-	27.0	-	-
Trial Average#	27	2.0	57.2	17.0	39.2	50.5	38.4	45.3	43.4
LSD(0.05)†	-	-	2.4	0.5	3.6	3.3	4.4	-	-
C.V.%‡	-	-	3.0	2.0	6.6	4.8	8.2	-	-

* 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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