



2019 South Dakota Spring Wheat Variety Trial Results Volga

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Cooperator: SDSU Volga Research Farm, Jack Ingemansen, manager
Location: 44.302373°, -96.918581°
Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slopes
Previous crop: Soybeans
Tillage: Minimum-till
Row spacing: 8"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
 -Starter: 90 lb/acre 30-10-10
 -Other: 100-30-30 broadcast preplant
Herbicide:
 -Burndown: NA
 -Post: 1.5 pt Bromac Advanced + 16.4 oz/acre Axial
Fungicide: none
Date seeded: 5/15/2019
Date harvested: 8/30/2019
Notes: Trial was affected by very wet conditions during the growing season.

Table 1a. 2019 spring wheat variety performance trial results (average of 4 replications) at Volga, 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	1.0	48.9	14.4	72.4	58.3	32.7	45.5	54.5
SY Ingmar	29	1.0	52.3	16.9	67.9	49.7	35.3	42.5	51.0
Prevail	29	1.0	55.6	15.8	75.1	42.6	33.3	37.9	50.3
SY Rustler	27	1.0	53.0	17.1	79.2	37.8	31.0	34.4	49.4
Faller	29	1.3	52.3	15.6	59.0	52.5	35.5	44.0	49.0
CP3530	31	1.0	52.3	17.2	68.2	45.8	32.4	39.1	48.8
SY Valda	28	1.0	50.7	17.0	63.8	48.3	34.4	41.3	48.8
WB9590	23	1.0	52.8	17.0	67.3	47.5	29.5	38.5	48.1
Focus	30	1.0	53.8	16.6	70.5	42.4	31.0	36.7	47.9
Shelly	26	1.0	48.9	16.5	71.0	43.7	28.3	36.0	47.7
Lang-MN	27	1.0	54.6	17.0	65.0	47.7	30.2	39.0	47.7
Surpass	29	1.0	53.6	16.6	71.5	37.5	33.8	35.6	47.6
WB9719	24	1.0	54.3	16.3	62.8	46.8	32.9	39.8	47.5
WB9653	25	1.0	51.0	16.3	61.5	47.7	33.1	40.4	47.4
Forefront	31	1.0	55.1	16.3	66.8	39.3	35.8	37.6	47.3
Ambush	26	1.0	52.3	17.7	66.7	45.2	28.1	36.6	46.7
Advance	26	1.0	52.3	15.9	63.2	44.0	32.0	38.0	46.4
WB9479	23	1.0	51.2	17.9	65.0	44.8	28.5	36.7	46.1
RB07	29	1.0	53.3	16.4	61.8	45.1	31.3	38.2	46.1
Prosper	31	1.7	48.4	16.3	60.7	48.9	28.0	38.5	45.9
MS Chevelle	26	1.3	50.9	16.2	68.6	43.6	24.9	34.2	45.7
Boost	31	1.0	52.3	17.0	55.4	43.4	34.1	38.7	44.3
SD4625	27	1.0	48.4	17.2	67.1	41.1	23.8	32.4	44.0
LCS Rebel	26	1.3	54.9	17.0	62.6	42.1	27.2	34.6	44.0
Bolles	29	1.0	51.5	18.7	58.3	43.8	26.3	35.1	42.8
MS Camaro	25	1.0	50.4	17.4	61.9	37.1	19.1	28.1	39.3
Linkert	23	1.3	51.7	17.5	62.4	35.0	19.8	27.4	39.1
CP3888	27	1.0	51.0	16.8	-	45.2	29.4	37.3	-
Trial Average#	27	1.1	51.4	16.9	65.3	43.5	29.4	36.8	46.8
LSD(0.05)†	-	-	2.8	1.1	4.6	3.5	4.4	-	-
C.V.%‡	-	-	3.4	4.0	5.0	5.7	9.2	-	-

* 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 Volga, 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)
LCS Cannon	22	1.0	51.5	16.9	-	40.2	23.6	31.9	-
MS Barracuda	24	1.0	51.0	17.9	-	36.3	18.3	27.3	-
TCG-Spitfire	28	1.0	47.8	15.8	-	-	34.6	-	-
MN14105-7	27	1.0	52.3	17.2	-	-	33.9	-	-
AP Murdock	26	1.0	52.5	15.9	-	-	33.2	-	-
Commander	27	1.0	52.8	16.4	-	-	33.1	-	-
SY 611 CL2	26	1.0	52.3	16.5	-	-	31.6	-	-
TCG-Wildfire	26	1.0	52.0	16.7	-	-	31.0	-	-
CP3915	28	1.3	52.3	16.8	-	-	31.0	-	-
CP3939	29	1.0	50.7	18.5	-	-	27.9	-	-
MS-19SW1	33	1.3	49.1	18.1	-	-	26.4	-	-
MN-Washburn	25	1.0	47.9	16.7	-	-	24.9	-	-
MS-19SW2	30	1.0	48.9	17.4	-	-	24.3	-	-
TCG-Climax	27	1.0	49.2	18.3	-	-	20.7	-	-
TCG-Heartland	26	1.3	49.7	18.0	-	-	15.1	-	-
Trial Average#	27	1.1	51.4	16.9	65.3	43.5	29.4	36.8	46.8
LSD(0.05)†	-	-	2.8	1.1	4.6	3.5	4.4	-	-
C.V.%‡	-	-	3.4	4.0	5.0	5.7	9.2	-	-

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

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