



2020 South Dakota Spring Wheat Variety Trial Results Volga

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Cooperator: SDSU Volga Research Farm, Jack Ingemansen, manager
Location: 44.302299°, -96.921058°
Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slopes
Previous crop: soybeans
Tillage: minimum-till
Row spacing: 8"
Seeding Rate: 1.8 million PLS/acre
Fertilizer:
 -Starter: 80 lb/acre 30-10-10
 -Other: 100-30-30 broadcast preplant
Herbicide:
 -Burndown: none
 -Post: 1.5 pt/acre Bronate Advanced + 16.4 oz/acre Axial XL
Fungicide: none
Date seeded: 4/21/2020
Date harvested: 7/30/2020
Notes: Trial was affected by heat during flowering.

Table 1. 2020 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 %	2018 (bu/a)	2019 (bu/a)	2020 (bu/a)	2-year (bu/a)	3-year (bu/a)
LCS Trigger	31	1.0	60.3	12.7	58.3	32.7	60.4	46.6	50.5
SY Valda	29	1.0	61.5	14.5	48.3	34.4	56.1	45.3	46.3
CP3530	34	1.0	62.1	13.7	45.8	32.4	57.0	44.7	45.1
SY Ingmar	32	1.0	60.5	16.1	49.7	35.3	49.2	42.2	44.7
Advance	27	1.0	61.1	14.0	44.0	32.0	56.2	44.1	44.1
Boost	32	1.0	60.9	15.0	43.4	34.1	54.5	44.3	44.0
Prevail	28	1.0	59.7	13.8	42.6	33.3	55.6	44.4	43.8
Lang-MN	29	1.0	61.5	14.0	47.7	30.2	53.0	41.6	43.7
Shelly	27	1.0	60.1	13.3	43.7	28.3	58.4	43.4	43.5
CP3888	31	1.0	58.2	14.5	45.2	29.4	55.1	42.2	43.2
Forefront	35	1.0	60.3	14.4	39.3	35.8	54.5	45.1	43.2
Focus	34	1.0	60.1	14.4	42.4	31.0	52.5	41.8	42.0
WB9719	28	1.0	60.1	16.1	46.8	32.9	45.3	39.1	41.7
Surpass	30	1.0	59.3	14.4	37.5	33.8	53.2	43.5	41.5
MN-Washburn	27	1.0	59.5	13.6	43.1	24.9	55.7	40.3	41.3
SY Rustler	28	1.0	59.5	13.8	37.8	31.0	52.8	41.9	40.5
MS Chevelle	27	1.0	61.1	13.8	43.6	24.9	52.4	38.7	40.3
Driver	32	1.0	61.7	14.2	41.1	23.8	55.2	39.5	40.0
Bolles	31	1.0	59.3	15.5	43.8	26.3	48.3	37.3	39.5
LCS Cannon	29	1.0	61.9	14.0	40.2	23.6	53.8	38.7	39.2
LCS Rebel	32	1.0	61.9	16.4	42.1	27.2	46.3	36.8	38.5
WB9590	26	1.0	57.6	17.3	47.5	29.5	37.2	33.4	38.1
WB9479	28	1.0	56.4	17.5	44.8	28.5	35.9	32.2	36.4
MS Barracuda	28	1.0	60.3	15.6	36.3	18.3	45.0	31.7	33.2
MN-Torgy	27	1.0	59.1	14.3	-	33.9	56.3	45.1	-
AP Murdock	28	1.0	59.9	14.1	-	33.2	53.0	43.1	-
SY 611 CI2	28	1.0	61.7	14.7	-	31.6	52.5	42.0	-
CP3915	30	1.0	60.7	14.6	-	31.0	51.5	41.2	-
LCS Buster	33	1.0	59.3	13.0	-	-	58.4	-	-
MS Ranchero	29	1.0	58.2	14.3	-	-	53.7	-	-
WB9606	30	1.0	59.3	12.8	-	-	53.5	-	-
CP3099A	34	1.0	57.2	12.8	-	-	52.1	-	-
CP3903	30	1.0	58.0	14.6	-	-	50.1	-	-
ND Frohberg	33	1.0	60.1	15.7	-	-	46.6	-	-
CP3910	29	1.0	61.1	15.3	-	-	43.6	-	-
Trial Average#	26	1.0	59.9	14.5	43.5	29.4	52.3	41.1	41.8
LSD(0.05)†	1.2	-	1.9	0.4	3.5	4.4	3.3	-	-
C.V.%‡	3.4	-	2.3	2	5.7	9.2	5.6	-	-

* 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.