

2018 South Dakota Spring Wheat Variety Trial Results Volga

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Cooperator: SDSU Volga Research Farm, Jack Ingemansen, manager
Location: 44.302553°, -96.920860°
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: 90 lb/acre 30-10-10
 -Other: 100-30-30 broadcast preplant
Herbicide:
 -Burndown: NA
 -Post: 1.5 pt Bromac
Fungicide: none
Date seeded: 5/4/2018
Date harvested: 8/22/2018

Table 1. 2018 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 %	2016 (bu/a)	2017 (bu/a)	2018 (bu/a)	2-year (bu/a)	3-year (bu/a)
LCS Trigger	29	3.0	58.3	15.0	83.8	72.4	58.3	65.3	71.5
SY Rustler	23	2.8	57.2	17.8	83.0	79.2	37.8	58.5	66.7
Prevail	23	2.8	58.6	16.7	82.0	75.1	42.6	58.9	66.6
HRS 3504	25	3.3	56.6	16.9	79.8	70.1	45.4	57.7	65.1
SY Ingmar	28	2.5	60.3	17.6	76.8	67.9	49.7	58.8	64.8
Shelly	24	2.8	57.9	16.5	78.8	71.0	43.7	57.4	64.5
SY Valda	28	3.0	59.0	17.3	81.3	63.8	48.3	56.0	64.4
WB9653	25	2.8	54.3	16.7	82.6	61.5	47.7	54.6	64.0
HRS 3419	25	3.0	56.1	15.8	80.5	61.7	49.8	55.7	64.0
HRS 3530	28	2.8	55.3	17.8	76.3	68.2	45.8	57.0	63.4
MS Chevelle	22	3.5	57.8	16.5	77.1	68.6	43.6	56.1	63.1
Focus	28	2.8	59.1	18.3	75.1	70.5	42.4	56.4	62.7
Surpass	23	3.0	57.3	18.2	78.2	71.5	37.5	54.5	62.4
HRS 3616	27	3.0	58.5	18.4	70.9	67.6	48.2	57.9	62.2
Faller	27	3.0	60.0	16.3	73.8	59.0	52.5	55.7	61.7
Lang-MN	26	3.0	57.6	17.3	72.2	65.0	47.7	56.4	61.7
Prosper	28	3.5	57.7	16.3	75.1	60.7	48.9	54.8	61.6
Select	24	3.0	57.6	18.4	78.8	65.6	40.2	52.9	61.5
HRS 3100	25	2.5	54.4	17.1	74.9	64.1	44.2	54.1	61.1
RB07	26	3.0	57.1	17.6	71.9	61.8	45.1	53.5	59.6
Advance	26	3.0	55.3	16.5	70.7	63.2	44.0	53.6	59.3
Forefront	26	3.0	55.7	18.0	71.9	66.8	39.3	53.0	59.3
Brick	26	3.0	58.2	18.1	72.2	68.2	36.9	52.6	59.1
Bolles	27	2.8	57.1	19.3	71.9	58.3	43.8	51.0	58.0
Boost	27	2.5	58.3	17.5	69.9	55.4	43.4	49.4	56.2
Linkert	24	3.0	59.3	18.2	65.5	62.4	35.0	48.7	54.3
WB9590	25	2.8	55.8	18.2	-	67.3	47.5	57.4	-
Ambush	26	3.0	59.0	17.9	-	66.7	45.2	55.9	-
WB9479	24	3.0	56.4	18.6	-	65.0	44.8	54.9	-
WB9719	26	3.0	59.4	16.6	-	62.8	46.8	54.8	-
LCS Rebel	26	3.5	59.1	18.0	-	62.6	42.1	52.3	-
ND Vitpro	24	3.0	57.7	17.8	-	61.3	40.7	51.0	-
MS Camaro	22	2.8	57.8	17.8	-	61.9	37.1	49.5	-
HRS 3888	26	3.0	59.0	17.5	-	-	45.2	-	-
MN10201-4-A	25	3.0	57.0	16.7	-	-	43.1	-	-
LCS Cannon	23	3.0	59.4	17.4	-	-	40.2	-	-
MS Barracuda	22	3.5	53.3	18.0	-	-	36.3	-	-
Trial Average#	26	3.0	57.2	17.5	74.1	65.3	43.5	-	-
LSD(0.05)†	1.7	0.5	1.9	0.4	5.0	4.6	3.5	-	-
C.V.%‡	4.7	-	2.3	1.7	4.9	5.0	5.7	-	-

* 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.