



2018 South Dakota Spring Wheat Variety Trial Results Agar

Jonathan Kleinjan | SDSU Extension Crop Production Associate

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

Cooperator: Cronin Farms
Location: 44.925897°, -100.104045°
Soil Type: Agar Silt loam, 0-2% slopes
Previous crop: lentils
Tillage: No-till
Row spacing: 8"
Seeding Rate: 1.8 million PLS/acre
Fertilizer:
 -Starter: 90 lb/acre 30-10-10
 -Other: 45 gal/acre 28-0-0 preplant broadcast
Herbicide:
 -Burndown: NR
 -Post: 1 pt Bronate
Fungicide: none
Date seeded: 5/1/2018
Date harvested: 8/13/2018

Table 1. 2018 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 %	2016 (bu/a)	2017 (bu/a)	2018 (bu/a)	2-year (bu/a)	3-year (bu/a)
HRS 3504	27	1.3	57.2	15.2	69.0	46.7	57.8	52.3	57.8
SY Valda	27	2.3	58.1	16.2	68.4	46.2	56.2	51.2	56.9
WB9653	26	1.3	55.9	15.5	66.5	46.8	56.1	51.4	56.5
LCS Trigger	29	1.0	58.2	14.3	66.5	46.2	56.0	51.1	56.3
MS Chevelle	28	2.0	57.7	15.4	67.6	42.8	53.8	48.3	54.7
Lang-MN	30	2.0	58.4	16.7	65.5	44.1	54.1	49.1	54.6
SY Rustler	25	2.8	57.3	16.5	64.2	42.5	55.4	48.9	54.0
Shelly	27	2.0	57.0	15.8	63.9	42.4	54.3	48.4	53.5
Surpass	29	2.8	57.6	16.0	66.7	40.0	52.6	46.3	53.1
HRS 3100	27	1.3	55.9	15.8	63.0	40.2	55.8	48.0	53.0
SY Ingmar	28	1.5	57.5	16.6	64.3	42.1	51.8	46.9	52.7
HRS 3419	29	1.3	57.1	14.8	60.7	39.0	54.2	46.6	51.3
Advance	28	2.8	59.2	15.4	62.0	38.8	52.6	45.7	51.1
HRS 3530	31	2.5	57.2	16.6	62.0	38.8	51.6	45.2	50.8
Select	29	3.0	58.8	16.0	62.5	40.5	48.3	44.4	50.5
Prevail	30	2.0	58.5	15.9	61.2	37.1	53.0	45.0	50.4
RB07	30	2.0	57.1	16.4	62.6	36.0	51.9	43.9	50.2
Prosper	31	2.3	55.8	15.2	60.5	37.8	52.1	45.0	50.1
Brick	29	3.0	59.1	16.6	60.9	40.6	46.7	43.7	49.4
Forefront	31	2.3	58.2	16.4	55.3	40.5	48.9	44.7	48.2
Focus	29	2.8	59.6	16.6	61.6	34.5	47.6	41.0	47.9
Faller	30	1.8	54.7	15.6	58.0	38.4	46.6	42.5	47.6
Linkert	27	1.3	57.6	17.9	61.4	35.2	45.8	40.5	47.5
HRS 3616	29	1.3	57.0	17.1	55.8	37.5	48.7	43.1	47.4
Bolles	28	2.0	56.6	18.7	57.5	33.0	50.1	41.6	46.9
Boost	31	2.3	56.7	16.8	56.3	34.6	49.1	41.8	46.7
WB9719	27	1.8	58.3	16.4	-	37.5	56.3	46.9	-
WB9590	25	1.3	57.6	17.5	-	39.4	49.1	44.2	-
LCS Rebel	31	2.5	59.1	16.8	-	38.7	49.1	43.9	-
Ambush	28	2.0	58.6	17.0	-	39.4	47.9	43.7	-
WB9479	26	1.0	57.2	17.9	-	37.1	50.1	43.6	-
ND Vitpro	28	2.3	57.6	17.2	-	33.8	47.5	40.7	-
MS Camaro	26	2.8	55.0	17.1	-	33.1	43.5	38.3	-
LCS Cannon	26	1.3	58.6	16.0	-	-	52.4	-	-
MN10201-4-A	28	1.0	56.4	15.9	-	-	51.4	-	-
HRS 3888	28	1.5	55.4	16.3	-	-	49.3	-	-
MS Barracuda	25	1.8	56.8	16.7	-	-	47.2	-	-
Trial Average#	29	2.0	57.5	16.4	61.4	39.2	50.5	45.4	51.5
LSD(0.05)†	1.5	0.6	1.3	0.4	3.3	3.6	3.3	-	-
C.V.%‡	3.8	-	1.6	1.6	3.9	6.6	4.8	-	-

* 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.