



2018 South Dakota Spring Wheat Variety Trial Results Draper

Jonathan Kleinjan | SDSU Extension Crop Production Associate

Christopher Graham | SDSU Extension Agronomist

Bruce Swan | Agricultural Research Manager

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

Cooperator: Paul Patterson

Location: 43.850000°, -100.540556°

Soil Type: Promise clay, 0-3% slopes

Previous crop: grain sorghum

Tillage: No-till

Row spacing: 10"

Seeding Rate: 1.2 million PLS/acre

Fertilizer:

- Starter: 6 gal/acre 10-25-0-5S-.25Z
- Other: 35 gal/acre 28-0-0 mid-row banded

Herbicide:

- Burndown: none
- Post: 16 oz WideMatch

Fungicide: none

Date seeded: 5/1/2018

Date harvested: 9/13/2018

Table 1. 2018 spring wheat variety performance trial results (average of 4 replications) at Draper, 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)
Surpass	-	-	53.5	13.3	44.9	52.6	35.1	43.9	44.2
SY Valda	-	-	54.9	13.0	49.7	43.9	35.8	39.8	43.1
WB9653	-	-	52.9	12.0	43.8	47.4	37.3	42.4	42.8
Select	-	-	55.8	13.2	45.5	49.1	34.0	41.5	42.8
Prevail	-	-	51.3	13.2	48.7	42.6	34.0	38.3	41.8
HRS 3530	-	-	53.1	13.2	46.8	42.2	35.1	38.6	41.3
HRS 3100	-	-	54.0	12.9	41.8	49.2	32.0	40.6	41.0
LCS Trigger	-	-	53.2	12.5	43.5	38.5	40.2	39.3	40.7
HRS 3504	-	-	52.1	12.1	41.0	44.8	32.5	38.6	39.4
Focus	-	-	52.3	14.0	37.6	45.0	34.5	39.8	39.1
Lang-MN	-	-	53.7	13.2	41.5	41.2	33.6	37.4	38.8
HRS 3616	-	-	54.6	13.7	38.7	44.0	33.4	38.7	38.7
Brick	-	-	53.9	13.6	41.4	45.6	28.8	37.2	38.6
Shelly	-	-	54.7	12.6	44.0	37.8	33.6	35.7	38.5
SY Rustler	-	-	54.3	12.8	43.4	42.5	29.4	36.0	38.4
MS Chevelle	-	-	53.8	12.5	42.9	41.4	29.1	35.2	37.8
Faller	-	-	52.5	12.7	38.1	42.4	32.5	37.4	37.7
SY Ingmar	-	-	54.2	14.8	38.6	42.1	31.6	36.8	37.4
Advance	-	-	54.2	12.7	43.4	42.7	25.8	34.2	37.3
RB07	-	-	53.3	13.8	43.1	32.9	35.8	34.4	37.3
Linkert	-	-	53.9	14.7	39.1	40.3	31.2	35.7	36.8
Prosper	-	-	51.6	12.8	40.4	35.4	33.2	34.3	36.3
Forefront	-	-	53.3	13.6	29.5	48.4	28.4	38.4	35.5
Boost	-	-	49.8	13.8	35.6	40.9	23.1	32.0	33.2
Bolles	-	-	50.7	14.5	37.8	34.3	25.8	30.1	32.6
HRS 3419	-	-	47.1	13.1	32.8	39.7	21.8	30.8	31.4
WB9590	-	-	52.8	14.2	-	46.6	32.1	39.3	-
WB9719	-	-	55.3	13.4	-	45.2	32.6	38.9	-
LCS Rebel	-	-	54.3	13.8	-	42.8	34.5	38.6	-
Ambush	-	-	52.1	13.9	-	45.7	28.2	36.9	-
ND Vitpro	-	-	54.4	13.9	-	39.9	33.6	36.7	-
MS Camaro	-	-	53.9	14.8	-	38.5	28.7	33.6	-
WB9479	-	-	52.5	14.8	-	41.4	25.0	33.2	-
LCS Cannon	-	-	57.1	13.0	-	-	39.1	-	-
MN10201-4-A	-	-	53.4	13.1	-	-	34.4	-	-
HRS 3888	-	-	52.9	12.9	-	-	33.6	-	-
MS Barracuda	-	-	53.8	13.5	-	-	29.0	-	-
Trial Average#	-	-	53.2	13.4	40.2	42.4	31.5	37.1	38.6
LSD(0.05)†	-	-	1.9	0.5	4.8	8.3	3.2	-	-
C.V.%‡	-	-	2.6	3.0	8.5	14.0	7.3	-	-

* 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.