



2018 South Dakota Spring Wheat Variety Trial Results Sturgis

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:	Dave Wilson
Location:	44.503852°, -103.480632°
Soil Type:	Nunn clay loam, 0-2% slopes
Previous crop:	winter wheat
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:	32 oz Roundup
-Post:	16 oz WideMatch
Fungicide:	none
Date seeded:	4/20/2018
Date harvested:	9/10/2018
Notes:	This trial location was new in 2017. There are no three-year averages available.

Table 1. 2018 spring wheat variety performance trial results (average of 4 replications) at Sturgis, 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	30	-	57.8	12.5	-	19.3	54.2	36.8	-
SY Valda	28	-	57.4	14.4	-	21.9	50.9	36.4	-
HRS 3530	32	-	54.8	14.2	-	18.4	53.1	35.7	-
HRS 3504	27	-	57.4	14.1	-	21.5	49.4	35.5	-
Prosper	32	-	56.5	13.6	-	19.0	51.5	35.2	-
WB9653	24	-	57.7	13.6	-	18.4	51.6	35.0	-
Prevail	26	-	55.4	15.8	-	24.6	45.3	35.0	-
Surpass	29	-	57.1	15.9	-	22.8	47.0	34.9	-
LCS Rebel	33	-	58.1	15.4	-	22.2	47.1	34.6	-
Advance	28	-	57.0	14.9	-	19.4	49.8	34.6	-
Select	32	-	58.3	15.8	-	24.5	44.6	34.6	-
SY Rustler	29	-	57.5	15.5	-	23.2	45.8	34.5	-
Shelly	27	-	56.3	13.3	-	20.4	48.4	34.4	-
Faller	29	-	56.0	13.5	-	17.4	49.7	33.6	-
Lang-MN	29	-	56.7	15.2	-	22.6	44.1	33.4	-
SY Ingmar	29	-	58.0	16.0	-	23.6	43.0	33.3	-
Brick	30	-	57.8	16.0	-	20.3	44.0	32.1	-
RB07	28	-	56.0	15.2	-	18.5	45.2	31.9	-
WB9590	26	-	56.6	15.0	-	16.3	47.0	31.7	-
HRS 3616	31	-	55.8	15.2	-	20.8	42.5	31.6	-
Forefront	34	-	57.9	15.8	-	22.5	40.4	31.4	-
HRS 3100	29	-	56.2	15.3	-	21.8	41.0	31.4	-
Ambush	30	-	57.5	14.9	-	19.9	42.9	31.4	-
ND Vitpro	28	-	56.1	15.7	-	17.4	45.1	31.3	-
Boost	31	-	56.8	15.3	-	19.6	42.1	30.9	-
WB9719	29	-	58.4	15.2	-	16.6	44.8	30.7	-
WB9479	25	-	56.4	15.7	-	17.4	43.8	30.6	-
Focus	33	-	57.3	16.9	-	19.7	41.1	30.4	-
Bolles	32	-	55.7	16.2	-	16.3	44.4	30.3	-
Linkert	27	-	56.0	17.1	-	20.9	37.2	29.0	-
MS Chevelle	26	-	56.3	14.1	-	14.2	43.2	28.7	-
HRS 3419	29	-	55.4	13.5	-	18.4	38.9	28.6	-
MS Camaro	23	-	56.4	16.3	-	15.8	36.7	26.3	-
HRS 3888	28	-	56.7	14.4	-	-	49.2	-	-
MN10201-4-A	26	-	56.5	14.8	-	-	48.0	-	-
LCS Cannon	30	-	59.7	15.0	-	-	47.8	-	-
MS Barracuda	26	-	57.3	15.3	-	-	44.4	-	-
Trial Average#	29	-	56.9	15.1	-	20.0	44.9	32.6	-
LSD(0.05)†	-	-	0.3	0.7	-	5.5	4.4	-	-
C.V.%‡	-	-	1.6	3.3	-	14.2	7.1	-	-

* 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.