SDSU Extension
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South Dakota Agricultural Experiment Station Research at SDSU
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SOUTH DAKOTA STATE UNIVERSITY®
AGRONOMY, HORTICULTURE, & PLANT SCIENCE DEPARTMENT

2018 South Dakota Spring Wheat Variety Trial Results Wall

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Cooperator:	Merritt Patterson and Sons
Location:	44.104170°, -102.346670°
Soil Type:	Santana 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:	4/19/2018
Date harvested:	8/6/2018

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Table 1. 2018 spring wheat variety performance trial results (average of 4 replications) at Wall, 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)
SY Valda	28	-	56.8	14.3	44.5	29.3	58.5	43.9	44.1
WB9653	24	-	55.9	13.4	44.3	30.8	53.2	42.0	42.8
Shelly	28	-	56.4	13.6	43.7	23.6	54.4	39.0	40.6
LCS Trigger	31	-	55.9	13.6	44.0	23.7	53.2	38.5	40.3
HRS 3100	30	-	58.2	14.5	41.3	32.2	46.2	39.2	39.9
HRS 3530	33	-	55.0	14.2	37.0	29.0	53.7	41.3	39.9
Select	30	-	60.3	14.7	35.8	35.8	48.0	41.9	39.9
Prosper	31	-	56.9	13.5	39.2	28.6	50.5	39.6	39.4
Surpass	31	-	59.1	14.8	41.7	30.7	45.4	38.0	39.3
RB07	31	-	58.0	14.9	40.0	26.2	49.8	38.0	38.7
Prevail	33	-	57.7	14.6	38.6	30.6	45.8	38.2	38.3
Focus	34	-	58.8	15.2	41.2	28.0	45.6	36.8	38.3
HRS 3504	28	-	56.3	13.8	42.6	22.2	49.7	36.0	38.2
Brick	34	-	59.2	14.9	39.2	29.2	45.5	37.4	38.0
Lang-MN	31	-	57.1	14.4	42.7	26.8	44.2	35.5	37.9
Advance	29	-	57.2	14.1	35.6	30.3	47.8	39.0	37.9
SY Rustler	24	-	56.9	14.7	41.1	28.0	43.6	35.8	37.5
MS Chevelle	29	-	57.8	14.1	37.2	30.0	44.2	37.1	37.1
Forefront	35	-	57.9	15.7	35.9	31.8	43.3	37.6	37.0
Linkert	27	-	57.3	15.8	38.5	27.6	44.2	35.9	36.7
Faller	33	-	59.4	14.0	40.4	20.7	46.0	33.4	35.7
HRS 3616	33	-	57.7	15.4	36.5	23.6	45.7	34.6	35.2
SY Ingmar	28	-	61.0	16.3	38.1	21.8	40.3	31.1	33.4
Boost	34	-	59.7	15.5	33.3	20.5	43.8	32.2	32.5
HRS 3419	30	-	57.3	15.0	35.0	22.6	35.1	28.8	30.9
Bolles	30	-	57.9	16.0	27.8	20.0	37.3	28.6	28.3
WB9719	29	-	58.9	15.1	-	41.8	46.5	44.2	-
WB9590	22	-	59.6	14.7	-	33.3	49.5	41.4	-
LCS Rebel	34	-	60.4	15.4	-	32.6	42.9	37.7	-
WB9479	23	-	58.3	15.5	-	21.6	48.7	35.1	-
ND Vitpro	29	-	58.1	15.5	-	27.6	40.9	34.2	-
MS Camaro	23	-	56.9	15.7	-	27.8	39.8	33.8	-
Ambush	28	-	60.2	15.3	-	21.7	39.4	30.6	-
LCS Cannon	28	-	58.4	14.0	-	-	51.1	-	-
MN10201-4-A	29	-	58.4	14.5	-	-	48.9	-	-
MS Barracuda	28	-	57.4	14.9	-	-	44.7	-	-
HRS 3888	31	-	59.4	14.3	-	-	44.4	-	-
Trial Average#	30	-	58.1	14.8	39.2	28.0	45.7	36.9	37.6
LSD(0.05)†	-	-	3.7	0.7	6.3	5.6	8.9	-	-
C.V.%‡	-	-	4.6	3.2	11.5	14.3	14.0	-	-

* Lodging score: 1, perfectly standing; to 5, completely flat.
# Trial averages may include values from experimental lines that are not reported.
† Value required (≥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.