2018 South Dakota Spring Wheat Variety Trial Results Aberdeen

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Cooperator:	Locken Farms
Location:	45.487637°, -98.551674°
Soil Type:	Barnes-Cresbard-Tonka complex, 0-3% slopes
Previous crop:	Soybeans
Tillage:	No-till
Row spacing:	8"
Seeding Rate:	1.8 million PLS/acre
Fertilizer:	
-Starter:	90 lb/acre 30-10-10
-Other:	147-70-0-17S preplant broadcast
Herbicide:	
-Burndown:	NR
-Post:	1.5 pt Bromac
Fungicide:	none
Date seeded:	5/1/2018
Date harvested:	8/5/2018
Notes:	Trial was affected by drought conditions

Table 1. 2018 spring wheat variety performance trial results (average of 4 replications) at Aberdeen, 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	-	-	59.0	15.7	53.4	44.9	41.9	43.4	46.7
SY Ingmar	-	-	59.0	17.3	59.2	38.6	38.0	38.3	45.2
SY Valda	-	-	56.9	16.7	55.8	38.2	39.0	38.6	44.3
Shelly	-	-	56.7	16.4	55.3	41.8	34.7	38.2	43.9
Lang-MN	-	-	60.1	17.8	57.8	39.7	31.9	35.8	43.1
Advance	-	-	57.6	16.1	54.2	39.3	34.9	37.1	42.8
WB9653	-	-	54.6	16.5	58.4	34.3	35.0	34.6	42.6
HRS 3616	-	-	54.6	18.3	57.1	35.5	34.8	35.1	42.4
HRS 3504	-	-	55.9	16.6	52.7	38.3	35.7	37.0	42.2
HRS 3530	-	-	55.4	17.8	51.4	42.4	32.4	37.4	42.1
HRS 3100	-	-	56.1	16.9	56.5	31.4	38.3	34.8	42.0
HRS 3419	-	-	56.1	16.9	52.1	40.3	31.2	35.7	41.2
MS Chevelle	-	-	58.0	16.7	54.8	34.4	33.6	34.0	40.9
Faller	-	-	56.9	17.0	53.7	36.1	32.1	34.1	40.6
Boost	-	-	58.0	17.9	52.9	34.1	34.3	34.2	40.4
Prosper	-	-	56.3	16.9	52.6	33.2	35.1	34.1	40.3
Forefront	-	-	57.3	17.7	51.5	37.5	27.6	32.6	38.9
Linkert	-	-	56.7	18.7	55.1	30.1	29.4	29.8	38.2
Select	-	-	56.7	17.0	56.1	28.5	27.8	28.1	37.5
Bolles	-	-	54.8	20.0	47.8	35.2	28.7	32.0	37.2
Prevail	-	-	59.0	16.9	54.9	24.2	32.3	28.2	37.1
SY Rustler	-	-	56.9	17.2	50.8	29.0	30.8	29.9	36.9
Surpass	-	-	55.5	17.9	54.1	29.2	27.4	28.3	36.9
Brick	-	-	56.7	17.6	54.3	30.2	25.4	27.8	36.6
RB07	-	-	55.5	18.6	50.3	28.4	28.7	28.5	35.8
Focus	-	-	58.6	18.2	54.9	21.1	30.4	25.7	35.5
WB9719	-	-	58.4	17.6	-	45.4	36.7	41.0	-
LCS Rebel	-	-	57.6	18.0	-	38.6	34.8	36.7	-
Ambush	-	-	58.2	17.5	-	32.7	35.1	33.9	-
WB9479	-	-	60.7	18.9	-	32.4	31.6	32.0	-
ND Vitpro	-	-	58.4	18.0	-	28.9	33.4	31.1	-
WB9590	-	-	56.1	18.6	-	26.9	29.4	28.1	-
MS Camaro	-	-	56.7	17.9	-	21.3	30.8	26.0	-
HRS 3888	-	-	59.2	17.4	-	-	34.3	-	-
MN10201-4-A	-	-	57.8	17.4	-	-	34.2	-	-
LCS Cannon	-	-	59.2	17.5	-	-	32.7	-	-
MS Barracuda	-	-	60.1	18.3	-	-	27.8	-	-
Trial Average#	-	-	57.2	17.5	53.9	33.3	32.6	33.4	40.4
LSD(0.05)†	-	-	4.2	0.4	3.6	5.3	7.1	-	-
C.V.%‡	-	-	5.2	1.7	4.8	11.4	15.6	-	-

* 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.