2018 South Dakota Spring Wheat Variety Trial Results Doland

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Cooperator:	Matt Gilbert
Location:	44.651855°, -98.119772°
Soil Type:	Dimo-Grat loams, 0-2% 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:	185lb acre 46-0-0 broadcast at Feekes 5-6
Herbicide:	
-Burndown:	NR
-Post:	1.5 pt Bromac
Fungicide:	none
Date seeded:	4/30/2018
Date harvested:	8/3/2018
Notes:	Trial was affected by drought conditions

Table 1. 2018 spring wheat variety performance trial results (average of 4 replications) at Doland, 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	-	-	62.2	15.5	72.3	52.5	56.7	54.6	60.5
WB9653	-	-	61.3	16.3	68.9	51.4	46.1	48.8	55.5
HRS 3419	-	-	61.6	16.4	69.1	49.6	47.1	48.4	55.3
HRS 3504	-	-	61.4	16.6	72.0	49.9	41.9	45.9	54.6
HRS 3100	-	-	60.8	17.0	68.9	49.5	42.5	46.0	53.6
Lang-MN	-	-	60.8	17.7	64.8	49.1	44.1	46.6	52.7
MS Chevelle	-	-	61.4	16.3	68.0	46.7	42.3	44.5	52.4
Shelly	-	-	61.5	17.1	61.5	48.5	46.8	47.7	52.3
SY Valda	-	-	61.4	17.6	65.2	43.9	45.9	44.9	51.6
SY Ingmar	-	-	62.5	17.9	66.7	44.3	42.2	43.3	51.1
Surpass	-	-	60.8	18.2	68.1	47.2	37.4	42.3	50.9
HRS 3616	-	-	59.9	18.4	61.8	49.6	40.9	45.3	50.8
HRS 3530	-	-	60.1	17.8	63.4	39.7	47.9	43.8	50.4
Prosper	-	-	61.0	16.7	64.8	36.4	47.8	42.1	49.7
Prevail	-	-	60.2	16.9	65.0	44.4	39.0	41.7	49.5
SY Rustler	-	-	60.1	17.5	66.6	43.8	37.7	40.8	49.4
Forefront	-	-	61.3	17.9	63.4	47.7	35.7	41.7	48.9
RB07	-	-	60.6	18.0	64.4	41.2	37.2	39.2	47.6
Faller	-	-	60.8	16.3	58.3	39.5	44.6	42.1	47.5
Select	-	-	61.8	17.4	60.2	43.7	38.3	41.0	47.4
Focus	-	-	60.9	18.7	63.8	43.2	34.0	38.6	47.0
Linkert	-	-	61.4	18.6	63.9	39.3	36.9	38.1	46.7
Boost	-	-	60.2	17.8	59.3	40.0	38.8	39.4	46.0
Advance	-	-	62.0	17.3	59.3	36.9	40.1	38.5	45.4
Brick	-	-	61.6	17.4	56.0	41.9	36.4	39.1	44.8
Bolles	-	-	59.8	20.0	56.2	37.3	39.8	38.6	44.4
WB9719	-	-	62.5	17.1	-	46.7	47.8	47.2	-
WB9590	-	-	61.3	18.2	-	43.2	43.8	43.5	-
Ambush	-	-	61.2	17.9	-	44.2	42.4	43.3	-
ND Vitpro	-	-	60.4	17.8	-	39.8	42.9	41.3	-
WB9479	-	-	61.1	18.7	-	44.2	38.4	41.3	-
LCS Rebel	-	-	60.0	17.9	-	42.0	37.7	39.8	-
MS Camaro	-	-	59.8	18.5	-	44.4	32.3	38.4	-
HRS 3888	-	-	61.3	17.3	-	-	43.0	-	-
MN10201-4-A	-	-	61.3	17.2	-	-	41.1	-	-
MS Barracuda	-	-	59.7	18.4	-	-	39.4	-	-
LCS Cannon	-	-	63.1	18.1	-	-	39.2	-	-
Trial Average#	-	-	61.0	17.6	63.0	43.5	41.2	43.0	50.2
LSD(0.05)†	-	-	0.6	0.5	7.1	8.2	5.1	-	-
C.V.%‡	-	-	0.7	2.1	8.1	13.6	8.9	-	-

* 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.