



2018 South Dakota Spring Wheat Variety Trial Results South Shore

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Cooperator:	SDSU Northeast Research Farm, Al Heuer, manager
Location:	45.105569°, -97.086978°
Soil Type:	Kranzburg-Brookings silty clay loams, 0-2% slopes
Previous crop:	soybeans
Tillage:	Conventional
Row spacing:	8"
Seeding Rate:	1.8 million PLS/acre
Fertilizer:	
-Starter:	90 lb/acre 30-10-10
-Other:	425 lb/acre 46-0-0; 20 lb/acre 21-0-0-24S; 10 lb/acre Zinc preplant broadcast
Herbicide:	
-Burndown:	NR
-Post:	1 pt Bronate
Fungicide:	none
Date seeded:	5/14/2018
Date harvested:	8/16/2018

Table 1. 2018 spring wheat variety performance trial results (average of 4 replications) at South Shore, 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	35	1.0	58.7	13.9	45.1	68.9	79.2	74.0	64.4
SY Rustler	32	2.3	58.7	15.7	43.3	64.3	75.0	69.7	60.9
SY Ingmar	32	1.3	58.6	15.9	42.3	62.5	72.7	67.6	59.2
Shelly	31	1.8	58.8	15.5	42.5	65.8	69.2	67.5	59.1
Prevail	35	1.5	58.6	15.2	45.1	62.0	70.0	66.0	59.0
Forefront	39	3.3	58.6	16.1	43.8	56.9	74.4	65.6	58.4
HRS 3419	33	1.0	59.3	15.7	36.3	65.9	71.9	68.9	58.0
MS Chevelle	31	2.5	57.9	14.9	42.8	56.1	72.3	64.2	57.1
HRS 3504	30	1.5	57.5	15.4	38.1	62.5	68.5	65.5	56.4
SY Valda	32	2.8	58.0	16.0	40.5	62.6	65.9	64.3	56.3
Select	35	2.0	58.6	15.9	43.2	52.8	71.9	62.4	56.0
Surpass	34	2.8	57.5	16.3	43.2	55.5	68.5	62.0	55.7
HRS 3616	34	1.8	56.2	17.1	39.6	60.9	65.9	63.4	55.5
Brick	35	3.0	58.7	16.2	39.7	52.7	72.6	62.6	55.0
HRS 3530	36	2.3	58.7	16.8	39.9	49.9	74.6	62.2	54.8
WB9653	31	2.3	57.1	15.6	40.0	59.2	64.6	61.9	54.6
Focus	38	2.5	58.4	16.5	42.1	49.4	70.9	60.1	54.1
RB07	33	2.3	59.1	16.4	40.6	48.6	72.1	60.3	53.7
Advance	33	2.5	57.5	15.5	41.3	57.6	62.3	60.0	53.7
Bolles	33	2.5	57.2	18.0	36.0	59.1	65.3	62.2	53.5
HRS 3100	31	1.5	56.3	15.5	38.5	57.1	64.7	60.9	53.4
Linkert	31	1.0	57.7	16.2	39.0	57.9	61.6	59.8	52.8
Boost	34	2.8	57.7	16.5	36.9	59.1	60.0	59.5	52.0
Faller	35	2.8	58.9	15.4	37.4	42.9	73.9	58.4	51.4
Lang-MN	35	3.0	57.3	17.7	41.9	55.9	53.0	54.4	50.3
Prosper	35	3.0	58.9	15.6	38.1	44.5	68.1	56.3	50.2
WB9590	32	1.8	58.3	16.7	-	58.2	75.2	66.7	-
LCS Rebel	35	2.8	58.5	16.8	-	61.7	69.3	65.5	-
WB9479	31	1.3	56.2	17.0	-	62.3	67.5	64.9	-
WB9719	30	2.3	59.1	16.0	-	61.3	67.9	64.6	-
Ambush	32	1.5	57.0	16.5	-	56.4	66.0	61.2	-
MS Camaro	31	1.3	57.4	16.1	-	51.9	65.1	58.5	-
ND Vitpro	34	2.5	56.3	16.5	-	51.4	61.6	56.5	-
LCS Cannon	32	1.3	58.9	15.8	-	-	78.9	-	-
MS Barracuda	31	1.5	60.2	16.0	-	-	78.5	-	-
MN10201-4-A	33	1.0	58.8	16.0	-	-	66.6	-	-
HRS 3888	33	1.8	56.0	16.2	-	-	65.1	-	-
Trial Average#	34	2.2	58.1	16.2	40.4	56.8	68.6	62.9	55.8
LSD(0.05)†	1.6	0.6	1.1	0.5	3.7	4.4	4.7	-	-
C.V.%‡	3.3		1.4	2.0	6.4	5.6	5.0	-	-

* 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.