



2019 South Dakota Spring Wheat Variety Trial Results South Shore

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Cooperator: SDSU Northeast Research Farm, Al Heuer, manager
Location: 45.106224°, -97.089059°
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: 175-0-0 broadcast preplant incorporated
Herbicide:
 -Burndown: none
 -Post: 1 pt/acre Bronate + 0.66 pt/acre Puma
Fungicide: none
Date seeded: 5/7/2019
Date harvested: 8/23/2019

Table 1a. 2019 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 %	2017 (bu/a)	2018 (bu/a)	2019 (bu/a)	2-year (bu/a)	3-year (bu/a)
LCS Trigger	34	2.5	55.6	14.0	68.9	79.2	65.3	72.2	71.1
SY Rustler	30	2.5	54.4	16.6	64.3	75.0	61.4	68.2	66.9
SY Ingmar	32	1.0	54.7	16.1	62.5	72.7	64.3	68.5	66.5
WB9590	27	2.3	54.1	16.7	58.2	75.2	60.3	67.7	64.5
Prevail	29	2.5	55.0	15.5	62.0	70.0	59.6	64.8	63.9
SY Valda	31	3.0	52.8	16.0	62.6	65.9	62.7	64.3	63.7
Forefront	36	3.0	55.2	16.3	56.9	74.4	59.8	67.1	63.7
WB9479	29	2.0	54.2	17.3	62.3	67.5	60.2	63.9	63.3
SD4625	32	2.5	52.9	16.9	70.6	69.0	47.6	58.3	62.4
Shelly	30	2.8	54.5	16.3	65.8	69.2	51.7	60.4	62.2
WB9719	30	3.0	54.2	15.6	61.3	67.9	53.9	60.9	61.0
CP3530	35	3.0	55.0	16.9	49.9	74.6	56.8	65.7	60.4
Surpass	30	3.0	53.1	16.9	55.5	68.5	55.9	62.2	60.0
Ambush	29	2.5	54.5	17.1	56.4	66.0	56.6	61.3	59.7
WB9653	29	3.0	52.5	16.4	59.2	64.6	53.9	59.3	59.3
MS Chevelle	28	3.5	52.4	15.6	56.1	72.3	45.6	58.9	58.0
LCS Rebel	31	4.0	54.5	17.3	61.7	69.3	42.1	55.7	57.7
Boost	32	3.5	54.9	16.4	59.1	60.0	53.5	56.7	57.5
Bolles	33	3.0	53.1	18.4	59.1	65.3	47.9	56.6	57.4
Advance	30	3.0	53.5	16.1	57.6	62.3	50.0	56.1	56.6
Focus	34	3.5	54.2	17.3	49.4	70.9	48.3	59.6	56.2
RB07	31	3.5	53.8	16.3	48.6	72.1	47.8	59.9	56.1
Linkert	29	1.0	54.5	17.7	57.9	61.6	47.1	54.4	55.5
MS Camaro	29	1.3	54.7	16.5	51.9	65.1	48.2	56.6	55.0
Faller	33	3.5	53.4	15.4	42.9	73.9	43.7	58.8	53.5
Lang-MN	32	3.0	53.4	17.4	55.9	53.0	48.4	50.7	52.4
Prosper	32	3.5	51.6	15.0	44.5	68.1	41.3	54.7	51.3
LCS Cannon	28	3.0	56.5	16.7	-	78.9	49.8	64.3	-
Trial Average#	31	2.5	54.0	16.5	56.8	68.6	52.7	61	59.8
LSD(0.05)†	-	-	1.2	0.5	4.4	4.7	5.0	-	-
C.V.%‡	-	-	1.6	2.3	5.6	5.0	6.8	-	-

* 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.

Table 1b. 2019 spring wheat variety performance trial results (average of 4 replications) at South Shore, SD, continued. 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 %	2017 (bu/a)	2018 (bu/a)	2019 (bu/a)	2-year (bu/a)	3-year (bu/a)
MS Barracuda	29	2.5	54.8	18.2	-	78.5	47.9	63.2	-
CP3888	32	2.5	53.0	17.0	-	65.1	50.7	57.9	-
Commander	32	1.5	54.2	15.9	-	-	64.0	-	-
AP Murdock	31	2.5	54.6	15.6	-	-	63.5	-	-
MS-19SW2	32	2.5	51.4	16.3	-	-	54.9	-	-
TCG-Spitfire	33	1.5	52.2	15.2	-	-	54.0	-	-
MN14105-7	31	1.5	53.9	17.1	-	-	53.7	-	-
CP3915	31	2.5	55.3	16.2	-	-	53.0	-	-
MN-Washburn	32	1.0	54.7	16.1	-	-	51.7	-	-
SY 611 CL2	29	3.0	54.1	16.7	-	-	50.2	-	-
TCG-Wildfire	32	3.0	53.0	16.9	-	-	48.4	-	-
TCG-Heartland	29	1.3	53.7	17.6	-	-	47.2	-	-
CP3939	32	2.5	53.4	17.2	-	-	47.2	-	-
MS-19SW1	35	3.0	52.1	17.9	-	-	41.6	-	-
TCG-Climax	34	1.0	53.8	18.3	-	-	40.7	-	-
Trial Average#	31	2.5	54.0	16.5	56.8	68.6	52.7	61	59.8
LSD(0.05)†	-	-	1.2	0.5	4.4	4.7	5.0	-	-
C.V.%‡	-	-	1.6	2.3	5.6	5.0	6.8	-	-

* 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.

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