SDSU Extension

agronomy

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 Selby

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Cooperator:	Tom Fiedler
Location:	45.488314°, -100.016894°
Soil Type:	Highmore silt loam, cool, 2-6% 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:	320 lb/acre 46-0-0; 100 lb/acre 11-52-0 preplant broadcast
Herbicide:	
-Burndown:	NR
-Post:	1.5 pt Bromac
Fungicide:	none
Date seeded:	4/30/2018
Date harvested:	8/17/2018
Notes:	This location was hailed out in 2017. The reported three-year average is actually a two-year average from 2016 and 2018.

Table 1. 2018 spring wheat variety performance trial results (average of 4 replications) at Selby, 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	32	1.0	59.6	13.7	95.8	-	84.6	-	90.2
SY Valda	32	1.0	60.4	15.3	95.7	-	81.2	-	88.4
WB9653	30	1.0	59.0	15.0	97.4	-	79.4	-	88.4
HRS 3530	34	1.3	59.9	16.2	97.5	-	76.0	-	86.8
MS Chevelle	31	1.5	59.6	15.1	96.8	-	76.3	-	86.5
HRS 3504	30	1.0	59.4	15.0	95.1	-	77.5	-	86.3
Faller	34	1.3	60.4	14.8	92.8	-	79.2	-	86.0
Prosper	35	1.0	59.4	15.0	91.0	-	79.8	-	85.4
HRS 3419	30	1.0	60.0	14.7	96.9	-	72.9	-	84.9
SY Ingmar	31	1.0	59.8	15.8	94.6	-	73.8	-	84.2
SY Rustler	31	1.0	60.7	15.7	95.0	-	73.0	-	84.0
Shelly	31	1.0	60.9	15.4	93.4	-	73.6	-	83.5
HRS 3100	31	1.0	59.3	15.4	91.9	-	74.9	-	83.4
Surpass	34	1.3	59.2	15.8	93.8	-	72.1	-	82.9
Advance	31	1.5	61.8	15.2	89.8	-	75.0	-	82.4
RB07	33	2.0	59.2	15.7	94.8	-	66.0	-	80.4
Prevail	33	1.0	60.7	15.4	88.5	-	70.5	-	79.5
Select	33	1.0	59.7	15.9	91.1	-	67.8	-	79.4
HRS 3616	31	1.3	58.9	16.8	87.8	-	69.8	-	78.8
Forefront	36	1.3	60.3	15.8	85.2	-	70.4	-	77.8
Lang-MN	35	1.0	61.0	16.7	88.4	-	66.9	-	77.7
Focus	35	1.3	60.3	16.2	84.3	-	69.6	-	77.0
Linkert	29	1.0	59.1	16.7	90.6	-	61.4	-	76.0
Bolles	31	1.0	58.2	18.0	86.1	-	63.5	-	74.8
Brick	34	2.0	60.4	16.4	89.1	-	60.0	-	74.5
Boost	33	1.3	59.7	16.2	81.9	-	65.8	-	73.8
WB9719	31	1.0	59.8	15.3	-	-	78.8	-	-
WB9590	28	1.0	57.9	16.3	-	-	78.2	-	-
LCS Rebel	34	1.3	59.0	16.5	-	-	73.3	-	-
HRS 3888	31	1.0	59.7	16.1	-	-	72.3	-	-
MN10201-4-A	31	1.0	60.4	16.0	-	-	71.2	-	-
LCS Cannon	30	1.0	60.8	16.1	-	-	69.5	-	-
Ambush	31	1.3	60.8	16.3	-	-	69.2	-	-
WB9479	29	1.0	57.9	16.9	-	-	68.5	-	-
MS Barracuda	30	1.0	59.5	15.9	-	-	66.8	-	-
MS Camaro	29	1.0	58.4	16.3	-	-	61.7	-	-
ND Vitpro	33	1.0	59.3	16.7	-	-	61.7	-	-
Trial Average#	32	1.2	59.7	15.9	89.0	-	70.7	-	82.0
LSD(0.05)†	1.3	0.5	1.2	0.5	4.3	-	3.5	-	-
C.V.%‡	2.9	-	1.4	3.9	3.5	-	3.5	-	-

* 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.