

## agronomy



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SOUTH DAKOTA STATE UNIVERSITY®
AGRONOMY, HORTICULTURE, & PLANT SCIENCE DEPARTMENT

## 2018 South Dakota Winter Wheat Variety Trial Results Bison

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**Location:** 45.45861°, -102.75583°

Soil Type: Regent-Daglum complex, 2-6% slopes

Previous crop: Chem fallow

Tillage: No-till Row spacing: 10"

Seeding Rate: 1.2 million PLS/acre

Fertilizer:

-Starter: 6 gal/acre 10-25-0 + 4 gal/acre water carrier

-Other: 45 gal/acre 28-0-0 mid-row banded

Herbicide:

-Burndown: NR

-Post: 16 oz WideMatch + 8 oz Double Check + 8 oz Sword

Fungicide: 3 oz Propiconazole (applied w/herbicide)

Date seeded: 9/28/2017

Date harvested: 8/1/2018



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Table 1. 2018 winter wheat variety performance trial results (average of 4 replications) at Bison, 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)
Ideal	29	NR	57.9	13.3	40.1	17.8	59.1	38.4	39.0
Cowboy	29	-	58.8	13.0	35.7	9.7	62.0	35.8	35.8
PSB13NEDH-7-140	29	-	57.4	14.8	41.4	14.5	51.3	32.9	35.7
SY Monument	27	-	55.3	13.5	39.6	15.6	49.6	32.6	34.9
LCS Mint	24	-	55.6	14.4	48.7	9.2	44.6	26.9	34.2
Oahe	29	-	56.1	13.5	45.0	10.7	46.7	28.7	34.1
Wesley	24	-	57.1	14.9	45.6	17.0	39.5	28.3	34.0
Lyman	27	-	58.7	14.9	37.6	9.9	54.2	32.0	33.9
SY Wolf	23	-	52.2	14.4	43.9	13.3	43.3	28.3	33.5
Redfield	25	-	56.4	14.0	38.3	11.1	50.0	30.5	33.1
Thompson	32	-	57.8	13.4	33.2	12.7	53.4	33.0	33.1
Overland	29	-	57.5	13.5	30.6	14.6	50.9	32.8	32.1
Avery	26	-	54.3	13.3	40.6	13.8	41.0	27.4	31.8
SY Sunrise	22	-	53.4	13.5	39.8	13.2	41.5	27.3	31.5
Expedition	25	-	54.9	14.4	36.4	14.4	40.2	27.3	30.3
WB-Grainfield	24	-	56.8	14.2	41.1	14.8	33.4	24.1	29.8
Alice	22	-	57.0	14.0	34.2	8.2	38.7	23.5	27.1
Keldin	20	-	56.3	13.8	-	9.0	55.8	32.4	-
SY 517 CL2	25	-	52.9	15.1	-	17.9	38.2	28.0	-
Dyna-Gro Long Branch	26	-	54.1	13.1	-	14.3	41.7	28.0	-
Langin	30	-	56.5	13.9	-	11.0	37.9	24.4	-
SY Benefit	27	-	55.5	14.1	-	-	47.2	-	-
LCS Chrome	26	-	56.6	14.3	-	-	46.6	-	-
WB4462	28	-	56.9	13.4	-	-	43.4	-	-
LCS Link	27	-	58.3	15.1	-	-	42.0	-	-
WB4418	26	-	56.1	13.2	-	-	40.4	-	-
NHH144913-3	30	-	51.8	14.9	-	-	37.1	-	-
WB4623CLP	29	-	48.9	15.6		-	35.5	-	-
Trial Average#	27	-	56.1	14.0	38.3	12.4	46.4	-	-
LSD(0.05)†	-	-	3.3	0.8	8.5	5.8	7.7	-	-
C.V.%‡	_	-	4.2	1.1	15.9	33.7	11.9	-	-

<sup>\*</sup> Lodging score: 1, perfectly standing; to 5, completely flat.

<sup>#</sup> Trial averages may include values from experimental lines that are not reported.

<sup>†</sup> Value required (≥LSD) to determine if varieties are significantly different from one another.

<sup>‡</sup> C.V. is a measure of variability or experimental error, 15% or less is considered acceptable.