Wheat
Variety Name: Sheridan
Experimental Designation: CO18D297R
Varietal Type: Pure Line
Variety Owner/Developer: Colorado Wheat Research Foundation
Recommended: April 2025

1. Provide a brief summary statement of the selection criteria and breeding procedures.
   Sheridan is a doubled-haploid line developed using the wheat x maize hybridization method from the three-way cross CO12D906/CO11D1353//Monarch which was completed in Fall 2015 at Fort Collins, CO and designated X150914. Doubled-haploid generation was done from the TC1F1 generation in the CSU Wheat Doubled Haploid Laboratory from fall 2016 to spring 2017. Sheridan was evaluated in the AYND1 (DH) nursery in 2019, the CSU Elite Trial from 2020-2023 and the Uniform Variety Performance Trial from 2021-2023. Sheridan was evaluated in cooperative stripe rust evaluations in Washington State and Kansas from 2019-2023 and Southern Regional Performance Nursery.

2. Provide a statement regarding the probable area of adaptation.
   Sheridan has has been tested extensively and excellent adaptation to Colorado (Table 1)
3. Provide a statement relative to the variety's disease and insect resistance. (If there are no claims to be made about disease and/or insect resistance, enter "No claims are made about pest resistance.").
   At the time of release, Sheridan was resistant to stripe rust (Puccinia striiformis f. sp. Tritici, see Table 1)

4. **Variety Objective Description –** Select one from each of the drop-down menus.

4.1 Kind: Common If Common: Hard Red	4.14 Awn Type: Awned
4.2 Seasonal Growth Habit: Winter	4.15 Awn Color: White
4.3 Coleoptile Color: White	4.16 Glume Color: White
4.4 Juvenile Growth Habit: Semi-Erect	4.17 Glume Length: Medium
4.5 Leaf Color at Boot: Green	4.18 Shoulder Shape: Oblique
4.6 Flag Leaf Orientation: Erect Type: Twisted Glaucosity: Waxy	4.19 Shoulder Width: Medium
4.7 Auricle Color: White	4.20 Beak Shape: Acuminate
4.8 Anther Color: Yellow	4.21 Beak Length: Medium
4.9 Stem Anthocyanin: Absent	4.22 Glume Pubescence: Absent (glabrous)
4.10 Stem Internodes: Hollow	4.23 Seed Color: Red
4.11 Spike Shape: Tapering	4.24 Seed Shape: Ovate
4.12 Spike Density: Mid-Dense	4.25 Cheeks: Rounded

4.13 Spike Curvature: Inclined	4.26 Brush Size: Medium
4.27 Physiological/Biochemical Traits: Nothing to report	
4.28 Variants and Frequency: Variants are limited to: (1) extreme tall plants (head height greater than one head length above the main canopy) that occur at a frequency of fewer than 1 in 1,000 plants; (2) plants with brown glumes that occur at a frequency of fewer than 1 in 1,000 plants; (3) plants that produce heads that lack awns at a frequency of fewer than 1 in 1,000 plants; and (4) plants that produce seed with a red seed coat at a frequency of fewer than 1 in 200 seeds.	

5. Select the classes of certified seed that will be recognized (select all applicable).

Breeder ☒ Foundation ☒ Registered ☒ Certified ☒

6. Provide a statement identifying the party responsible for maintaining the variety and procedures for maintaining seed stocks, with limitations, if any. Colorado State University will maintain the variety by manual removal of off-types as needed to produce breeder seed and foundation seed.

7. If applicable, state whether the variety may be subject to collection of royalties by certifying agencies. Royalties will be collected through the Colorado Wheat Research Foundation.

8. If applicable, state whether specific tests for trait verification (e.g., molecular marker testing or herbicide trait bioassay testing) are required for seed certification. The use of the Additional Certification Requirements is suggested.

Nothing to report

9. Will an application be made for protection under the Plant Variety Protection Act? Yes

10. Will the PVP application include the Certification Option requiring seed to be sold only as a class of certified seed by variety name only (Title V)? Yes

11. Will the variety be protected by utility or plant patents? No

12. Will variety be marketed under a Limited Use License Agreement prohibiting the use of saved seed or other restrictions? No

Please Specify:

13. The anticipated date certified seed will be first offered for sale: August 2025

14. Certified seed production acreage may be published by AOSCA and individual certifying agencies.

Yes