Wheat
Variety Name: 8582
Experimental Designation: NP14DC1116403
Varietal Type: Pure Line
Variety Owner/Developer: Syngenta Crop Protection AG

1. Provide a brief summary statement of the selection criteria and breeding procedures.
   8582 (NP14DC1116403) was selected for height, maturity, green leaf duration, disease reaction, and morphology in yield and disease test plots.

2. Provide a statement regarding the probable area of adaptation.
   8582 (NP14DC1116403) is primarily adapted to the spring wheat production area in north east North Dakota, and western Minnesota.
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.").
   8582 (NP14DC1116403) has intermediate resistance to Fusarium head blight and bacterial leaf streak.

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: Spring	4.15 Awn Color: White
4.3 Coleoptile Color: White	4.16 Glume Color: Tan
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: Long
4.9 Stem Anthocyanin: Absent	4.22 Glume Pubescence: Present
4.10 Stem Internodes: Hollow	4.23 Seed Color: Red
4.11 Spike Shape: Tapering	4.24 Seed Shape: Ovate
4.12 Spike Density: Lax	4.25 Cheeks: Rounded
4.13 Spike Curvature: Erect	4.26 Brush Size: Medium
4.27 Physiological/Biochemical Traits:	
4.28 Variants and Frequency: Less than 0.5% of plants were rogued from the Breeders Seed Increase. 100% of the variant plants were taller (3-10cm). Up to 0.8% variant plants may be encountered in subsequent generations. We also would expect to see up to 1.8% white seed variant in subsequent generations.	

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. Syngenta Seeds, LLC maintains seed stock and certified classes of Foundation, Registered and Certified. Syngenta Seeds, LLC will maintain the variety at the breeder seed level to produce breeder seed as needed.

7. If applicable, state whether the variety may be subject to collection of royalties by certifying agencies. Royalty fees are anticipated.

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.

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)? No

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? Undetermined

Please Specify:

13. The anticipated date certified seed will be first offered for sale: Certified seed stocks of 8582 (NP114DC1116403) will be available in the Spring of 2024.

14. Certified seed production acreage may be published by AOSCA and individual certifying agencies.
No