Wheat
Variety Name: SS19JK314369
Experimental Designation: N/A
Varietal Type: Pure Line
Variety Owner/Developer: Grow Pro Genetics, LLC
Recommended: April 2025

1. Provide a brief summary statement of the selection criteria and breeding procedures.
   SS19JK314369 is a medium-short, smooth, medium maturing variety from Grow Pro Genetics, LLC. SS19JK314369 heads one day earlier than SY Viper and is on average 4 inches shorter than SY Viper. In terms of milling and baking quality, SS19JK314369 has good solvent retention capacity values and produces average cookie diameters with good flour yield. SS19JK314369 will be available for foundation production in the fall of 2024.

2. Provide a statement regarding the probable area of adaptation.
   SS19JK314369 is adapted to the Delta region of the mid-South and the piedmont and coastal plains of the Carolinas and Virginia, where it exhibits very good test weight with good straw strength.
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.").
   SS19JK314369 shows a high level of resistance to Barley Yellow Dwarf, leaf rust, and powdery mildew; and average resistance to stripe rust, fusarium head blight, and soil-borne mosaic.

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

4.1 Kind: Common If Common: Soft Red	4.14 Awn Type: Apically Awnletted
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: Rounded
4.6 Flag Leaf Orientation: Erect Type: Twisted Glaucosity: Waxy	4.19 Shoulder Width: Medium
4.7 Auricle Color: White	4.20 Beak Shape: Acute
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: Oval
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:
4.28 Variants and Frequency: Variants can be expected up to 10 per 1,000. 8 per 1,000 of which are tall (greater than 3 inches than neighboring plants) and 2 per 1,000 awned plants.

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. Grow Pro Genetics LLC will maintain SS19JK314369 by head-row or bulk purification methods to produce breeder seed as needed. SS19JK314369 will be recognized, but not limited to classification as Foundation, Registered, Certified or Quality Assured seed. Foundation seed will initially be produced from breeders' seed, and thereafter foundation seed will be produced from foundation seed: maintaining the specific identity and purity of the variety as released. Registered, Certified or Quality Assured seed will be grown from foundation or breeder seed and maintained at a purity level satisfactory to Grow Pro Genetics or the appropriate certifying agency. SS19JK314369 will be eligible for Grow Pro Genetics Production Assurance System. Royalty fees and/or licensing agreements are anticipated.

7. If applicable, state whether the variety may be subject to collection of royalties by certifying agencies. SS19JK314369 will be subject to the collection of royalties and/or license fees, but collection will not be done by the certifying agency.

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? No

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? Yes

12. Will variety be marketed under a Limited Use License Agreement prohibiting the use of saved seed or other restrictions? Yes

    Please Specify: SS19JK314369 will be subject to royalty or license agreements prohibiting unauthorized seed production. All seed production must be in accoradance with the Product Assurance Program overseen by Grow Pro Genetics.

13. The anticipated date certified seed will be first offered for sale: Commercial seed will be available for purchase fall 2025.

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

No