



Sarah Huckabee Sanders  
Governor

# ARKANSAS DEPARTMENT OF AGRICULTURE

1 Natural Resources Drive, Little Rock, AR 72205  
agriculture.arkansas.gov  
(501) 225-1598



Wes Ward  
Secretary of Agriculture

FORM 28 (9/2020)

## DATA ON NEW VARIETY FOR CERTIFICATION

1. Variety name or temporary designation (Variety & Crop Kind):		
2. By whom selection was made:		
	(Breeder) / (Applicant or Sponsor's Name & Address)	
3. Cross from which first selected		
4. Location and year of selection		
5. Number of years tested and location of test(s)		
6. Breeding procedure used in its development		
7. Area(s) of adaptation		
8. Procedure for maintaining Stock Seed Classes and number of generations variety may be multiplied		
9. Description of the manner in which the variety is constituted when a particular cycle of reproduction or multiplication is specified		
10. Additional restrictions on the variety, specified by the breeder, with respect to geographic area of seed production, age of stand, or other factor affecting genetic purity		
11. Enclosed with Breeder's Description a representative seed sample of the variety? (Yes / No / Undecided)		
12. Will an application be made to the Plant Variety Protection Office? (Yes / No / Undecided)		
13. Will the application specify the variety to be sold only as a class of certified seed (Title V Option)? (Yes / No / Undecided)		
14. Will the application specify the variety be limited as to the number of generations? (Yes / No)		
15. If "YES" which classes of production beyond Breeder Seed? (Foundation / Registered / Certified)		
PRINTED NAME OF PERSON COMPLETING THIS FORM:		
DATE:		SIGNATURE:

**DATA ON NEW VARIETY FOR CERTIFICATION – RICE (continued)**

Variety name or temporary designation: \_\_\_\_\_

(Variety)

**16. Distinguishing Characteristics of Morphology and Physiology**

**A. RICE**

1. Grain type:    1. Long    2. Medium    3. Short    4. Other

2. Plant height (inches):

3. Plant color at booting:

**4. HEAD**

a. Density

b. Awedness

c. Color

d. Length

5. Apiculus color:

6. Maturity:

7. Leaves:

8. Seed shape:

9. Seed color:

10. Coleoptile color

11. Seed size:

(grams / 1000 seeds)

**17. Disease Reactions-include all diseases tested for (Susceptible or Resistant):**

**18. Describe the number per pound and/or percentage and kinds of variants (height, pubescence, grain length, hull color, etc.)**

**DATA ON NEW VARIETY FOR CERTIFICATION – SOYBEANS (continued)**

Variety name or temporary designation: \_\_\_\_\_

(Variety)

**16. Distinguishing Characteristics of Morphology and Physiology**

**A. SOYBEANS**

- |                                 |                      |                        |                  |                        |                      |                      |                      |     |      |    |                      |
|---------------------------------|----------------------|------------------------|------------------|------------------------|----------------------|----------------------|----------------------|-----|------|----|----------------------|
| 1. Hilum color:                 | 1. Buff              | 2. Brown               | 3. Black         | 4. Imperfect Black     | 5. Other             | <input type="text"/> |                      |     |      |    |                      |
| 2. Flower color                 | 1. Purple            | 2. White               | 3. Other         |                        |                      | <input type="text"/> |                      |     |      |    |                      |
| 3. Hypocotyl color              | 1. Purple            | 2. Green               | 3. Other         |                        |                      | <input type="text"/> |                      |     |      |    |                      |
| 4. Pubescence color             | 1. Tawny             | 2. Gray                | 3. Black         | 4. Other               |                      | <input type="text"/> |                      |     |      |    |                      |
| 5. Pod Wall color               | 1. Tan               | 2. Brown               | 3. Black         | 4. Other               |                      | <input type="text"/> |                      |     |      |    |                      |
| 6. Plant type                   | 1. Slender           | 2. Intermediate        | 3. Bushy         | 4. Other               |                      | <input type="text"/> |                      |     |      |    |                      |
| 7. Plant habit                  | 1. Determinate       | 2. Semi-Determinate    | 3. Indeterminate | 4. Other               |                      | <input type="text"/> |                      |     |      |    |                      |
| 8. Plant height (inches)        | <input type="text"/> |                        |                  |                        |                      |                      |                      |     |      |    |                      |
| 9. Maturity Group               | 0                    | I                      | II               | III                    | IV                   | V                    | VI                   | VII | VIII | IX | <input type="text"/> |
| 10. Relative Maturity           | 0                    | 1                      | 2                | 3                      | 4                    | 5                    | 6                    | 7   | 8    | 9  | <input type="text"/> |
| 11. Seed size (grams/100 seeds) | <input type="text"/> |                        |                  |                        |                      |                      |                      |     |      |    |                      |
| 12. Seed shape                  | 1. Spherical         | 2. Spherical Flattened | 3. Elongated     | 4. Elongated Flattened |                      | <input type="text"/> |                      |     |      |    |                      |
| 13. Seed Coat color             | 1. Yellow            | 2. Green               | 3. Brown         | 4. Black               | 5. Other             |                      | <input type="text"/> |     |      |    |                      |
| 14. Seed Coat luster            | 1. Dull              | 2. Shiny               | 3. Other         |                        | <input type="text"/> |                      |                      |     |      |    |                      |
| 15. Leaf color                  | 1. Light Green       | 2. Medium Green        |                  | 3. Dark Green          | 4. Other             |                      | <input type="text"/> |     |      |    |                      |
| 16. Leaflet shape               | 1. Lanceolate        | 2. Oval                | 3. Ovate         | 4. Other               |                      | <input type="text"/> |                      |     |      |    |                      |
| 17. Peroxidase reaction         | 1. Low               |                        | 2. High          | 3. Other               |                      | <input type="text"/> |                      |     |      |    |                      |

18. Disease Reactions-include all diseases tested for (Susceptible or Resistant):

19. Describe the number per pound and/or percentage and kinds of variants (height, pubescence, grain length, hull color, etc.)

**DATA ON NEW VARIETY FOR CERTIFICATION – WHEAT/OATS (continued)**

Variety name or temporary designation: \_\_\_\_\_

(Variety)

**16. Distinguishing Characteristics of Morphology and Physiology**

**A. WHEAT / OATS**

1. Kind: 1. Common Soft Red Winter Wheat      2. Other

2. Plant height (inches):

3. Plant color at booting: 1. Yellow-Green      2. Blue-Green      3. Green      4. Gray-Blue

**4. HEAD**

a. Density 1. Lax      2. Mid Dense      3. Dense

b. Awnedness 1. Awnless      2. Apically Awnletted      3. Awnletted      4. Awned

c. Color 1. Tan      2. White / Amber      3. Other

d. Length 1. Short      2. Medium      3. Long

5. Apiculus color:

6. Maturity: 1. Short      2. Medium      3. Long

7. Leaves:

8. Seed shape: 1. Ovate      2. Oval      3. Elliptical

9. Seed color: 1. White      2. Amber      3. Red      4. Other

10. Seed cheek 1. Rounded      2. Angular

11. Seed brush 1. Short      2. Medium      3. Long

12. Phenol reaction  % Dark       % Light       % Fawn

13. Coleoptile color  % Green       % Red       % Purple

14. Fluorescence reaction  % Fluorescent       % Non-Fluorescent

15. Seed size (grams / 1000 seeds):

16. Disease Reactions-include all diseases tested for (Susceptible or Resistant):

17. Describe the number per pound and/or percentage and kinds of variants (awnedness, coleoptile color, plant height, plant color, phenol reaction, etc.):