Wheat

TA19LW009
TA19LW009 (Exp)

1. TA19LW009 is a male-sterile hard red winter wheat A-Line developed by BASF for use in the production of commercial hybrid seed.
2. TA19LW009 was selected for its adaptation to the hard red winter wheat region of the US and for its expression of yield heterosis when hybridized to the appropriate R-Line male. It expresses acceptable milling and excellent baking quality for the hard red winter wheat class. TA19LW009 was developed using a backcrossing process. The initial cross with the recurrent male parent was made to a regionally adapted hard red winter wheat breeding line with male-sterile cytoplasm. Additional generations were produced by backcrossing the recurrent male parent with the male-sterile progeny produced in the prior generation.
3. TA19LW009 was selected for the purpose of expressing maximum heterosis for yield and other agronomic traits when combined with the appropriate R-Line male.
4. No claims for the line regarding its disease/pest resistance are made at this time.
5. Identifying characteristics -

1. Kind:	Common, Hard Red Winter Wheat		
2. Seasonal Growth Habit:	Winter	16. Awn Type:	Awned
3. Coleoptile Color:	White	17. Awn Color:	White/Amber
4. Juvenile Growth Habit:	Semi-Erect	18. Glume Color:	White
5. Leaf Color at Boot:	Green	19. Glume Length:	Long
6. Flag Leaf at Boot:	Erect	20. Shoulder Shape:	Oblique
7. Auricle Color:	White	21. Shoulder Width:	Medium
8. Day(s) to 50% Heading:	133 after Jan 1	22. Beak Shape:	Acuminate
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Long
10. Anthoncyanin:	Absent	24. Glume Pubescence:	Absent
11. Plant Height (cm):	95	25. Seed Color	Red
12. Internodes:	Hollow	26. Seed Shape:	Elliptical
13. Spike Shape:	Tapering	27. Cheeks:	Angular
14. Spike Density:	Mid-dense	28. Brush Size (S,M,L.):	Short
15. Spike Curvature:	Nodding	29. Avg 1,000 Kernel Wt (grams):	32

30. Physiological/Biochemical Traits:

Variants and Frequency: True variants that may occur include either taller plants or red-chaff plants at a frequency of 1%.

6. Recognized classes of TA19LW009 are Breeder, Foundation, and Certified seed. Certified seed will be grown from Foundation seed by designated BASF associates utilizing appropriately isolated A and B-Line field production blocks to maintain genetic integrity and purity, and seedlots will be separately maintained to prevent commingling of B-Line with A-Line seed after harvest and during seed processing. No royalty fees or licensing agreements are anticipated.
7. Certified seed of TA19LW009 will likely be available for planting in fall 2022.
8. Application for PVP is anticipated with the option that TA19LW009 can be sold by variety name only as a class of Certified seed.
9. Seed certification acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Dec 28, 2020 Date recommended by the VRB: Apr 21, 2021