Wheat

0455062
XD4204 (Exp)

1. 0455062 is a hard red winter wheat developed by Bayer Crop Science.

2. In early generations of 0455062, single spikes were selected based on agronomics and disease resistance. Later generations were selected based on yield, quality, and disease resistance.

3. 0455062 is adapted to the hard red winter wheat growing regions of North Dakota.

4. No claims about disease 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
4. Juvenile Growth Habit:	Semi-erect	18. Glume Color:	White/Amber
5. Leaf Color at Boot:	Blue-Green	19. Glume Length:	Long
6. Flag Leaf at Boot:	Recurved, Twisted, Wax Present	20. Shoulder Shape:	Square
7. Auricle Color:	White	21. Shoulder Width:	Wide
8. Day(s) to 50% Heading:	186	22. Beak Shape:	Acuminate
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Long
10. Anthoncyanin:	Present	24. Glume Pubescence:	Absent (Glabrous)
11. Plant Height (cm):	89	25. Seed Color	Red
12. Internodes:	Hollow	26. Seed Shape:	Ovate
13. Spike Shape:	Oblong	27. Cheeks:	Rounded
14. Spike Density:	Mid Dense	28. Brush Size (S,M,L.):	Medium
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (grams):	48.5

30. Physiological/Biochemical Traits:

Variants and Frequency: A variant that is similar to 0455062 but has white seed occurs at a frequency of up to 0.50% (50 out of 10,000 seeds). A variant that is similar to 0455062 but is 15cm to 20cm taller occurs at a frequency of up to 0.2% (20/10,000). A bronze head variant may occur at a frequency of 0.1% (10/10,000). An awnless variant may occur at a frequency of 0.1% (10/10,000).

6. Recognized classes of 0455062 are breeder, foundation, registered, and certified. Bayer Crop Science will maintain the variety by the head-row purification method to produce breeder seed as needed and all foundation seed. Royalty fees and/ or licensing agreements are anticipated.

7. Commercial seed will likely be ready for sale by the fall of 2021.

8. Application for PVP is anticipated with the option that 0455062 can be sold by variety name only as a class of certified seed.

9. Certified seed production acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Jan 6, 2021 Date recommended by the VRB: May 18, 2021