

**REQUIREMENTS FOR DARK, HARD AND VITREOUS KERNELS  
OF HARD RED SPRING WHEAT SUBCLASSES OR HARD  
AND VITREOUS KERNELS IN DURUM WHEAT SUBCLASSES**

Hard Red Spring Wheat Subclasses	Percentage		Durum Wheat Subclasses	Percentage
Dark Northern Spring (DNS)	75% or more		Hard Amber Durum (HAD)	75% or more
Northern Spring (NS)	25% or more but less than 75%		Amber Durum (AD)	60% or more but less than 75%
Red Spring (RS)	Less than 25%		Durum (Durum)	Less than 60%

**GRADES AND GRADE REQUIREMENTS FOR ALL CLASSES OF WHEAT, EXCEPT  
OF OTHER CLASSES DOES NOT APPLY TO MIXED WHEAT**

Grade	Minimum limits of –		Maximum limits of –								
	Test weight per bushel		Damaged kernels			Foreign material FM (percent)	Shrunken and broken kernels SB (percent)	Total Defects <sup>1</sup> TD (percent)	Wheat of other classes <sup>2</sup>		Stones (percent)
	Hard Red Spring Wheat or White Club wheat TW (pounds)	All other classes and subclasses TW (pounds)	Heat (part of total) HD (percent)	Total TKD (percent)	Contrasting classes CC (percent)				Total <sup>3</sup> TWO C (percent)		
U.S. No. 1	58.0	60.0	0.2	2.0	0.4	3.0	3.0	1.0	3.0	0.1	
U.S. No. 2	57.0	58.0	0.2	4.0	0.7	5.0	5.0	2.0	5.0	0.1	
U.S. No. 3	55.0	56.0	0.5	7.0	1.3	8.0	8.0	3.0	10.0	0.1	
U.S. No. 4	53.0	54.0	1.0	10.0	3.0	12.0	12.0	10.0	10.0	0.1	
U.S. No. 5	50.0	51.0	3.0	15.0	5.0	20.0	20.0	10.0	10.0	0.1	

U.S. Sample grade ..... is wheat that:

- Does not meet the requirements for the grades U.S. Nos. 1,2,3,4, or 5; or
- Has a musty, sour, or commercially objectionable foreign odor (except smut or garlic odor); or
- Is heating or of distinctly low quality.

**MAXIMUM COUNT LIMITS OF OTHER MATERIALS**

per 1000 gram sample

	Animal Filth AF (count)	Castor Beans CB (count)	Crotalaria Seeds CS (count)	Glass GL (count)	Stones ST (count)	Unknown Foreign Substance (count) UFS	Total <sup>4</sup> TC (count)	Insect Damaged Kernels in 100 grams <sup>ID</sup>
U.S. No. 1	1	1	2	0	3	3	4	31
U.S. No. 2	1	1	2	0	3	3	4	31
U.S. No. 3	1	1	2	0	3	3	4	31
U.S. No. 4	1	1	2	0	3	3	4	31
U.S. No. 5	1	1	2	0	3	3	4	31

U.S. sample grade ..... does not meet the count limits

- Defects include damaged kernels (total), foreign material, and shrunken and broken kernels. The sum of these three factors may not exceed the limit for defects for each numerical grade.
- Unclassed wheat of any grade may contain not more than 10.0 percent of wheat of other classes.
- Includes contrasting classes.
- Includes any combination of animal filth, castor beans, crotalaria seed, glass, stones, or unknown foreign substance.

**ADD THESE SPECIAL GRADES TO ABOVE, IF APPLICABLE**

**Ergoty** - contains more than 0.05 percent ergot

**Garlicky** - contains more than 2 green garlic bulblets or an equivalent quantity of dry bulblets per 1000 gram sample

**Infested** - infested with live weevils or other live insects injurious to stored grain

**Treated** - has been scoured, limed, washed, sulfured, or treated in such a manner that the true quality is not reflected by either the numerical grade or the U.S. Sample grade alone

**Light Smutty** - wheat that has an unmistakable odor of smut, or which contains 6 - 30 smut balls, portions of smut balls or spores of smut of average size per 250 gram sample

**Smutty** - contains more than 30 smut balls, portions of smut balls, or spores of smut of average size per 250 gram sample