

§ 810.1603

7 CFR Ch. VIII (1-1-05 Edition)

(d) *Heat-damaged kernels.* Soybeans and pieces of soybeans that are materially discolored and damaged by heat.

(e) *Purple mottled or stained.* Soybeans that are discolored by the growth of a fungus; or by dirt; or by a dirt-like substance(s) including nontoxic inoculants; or by other nontoxic substances.

(f) *Sieve—⁸/₆₄ round-hole sieve.* A metal sieve 0.032 inch thick perforated with round holes 0.125 (⁵/₆₄) inch in diameter.

(g) *Soybeans of other colors.* Soybeans that have green, black, brown, or bicolored seed coats. Soybeans that have green seed coats will also be green in cross section. Bicolored soybeans will have seed coats of two colors, one of which is brown or black, and the brown or black color covers 50 percent of the seed coats. The hilum of a soybean is

not considered a part of the seed coat for this determination.

(h) *Splits.* Soybeans with more than 1/4 of the bean removed and that are not damaged.

PRINCIPLES GOVERNING THE APPLICATION OF STANDARDS

§ 810.1603 Basis of determination.

Each determination of class, heat-damaged kernels, damaged kernels, splits, and soybeans of other colors is made on the basis of the grain when free from foreign material. Other determinations not specifically provided for under the general provisions are made on the basis of the grain as a whole.

GRADES AND GRADE REQUIREMENTS

§ 810.1604 Grades and grade requirements for soybeans.

Grading factors	Grades U.S. Nos.			
	1	2	3	4 - -s4
Minimum pound limits of:				
Minimum test weight per bushel	56.0	54.0	52.0	49.0
Maximum percent limits of:				
Damaged kernels:				
Heat (part of total)	0.2	0.5	1.0	3.0
Total	2.0	3.0	5.0	8.0
Foreign material	1.0	2.0	3.0	5.0
Splits	10.0	20.0	30.0	40.0
Soybeans of other colors ¹	1.0	2.0	5.0	10.0
Maximum count limits of:				
Other material:				
Animal filth	9	9	9	9
Castor beans	1	1	1	1
Crotalaria seeds	2	2	2	2
Glass	0	0	0	0
Stones ²	3	3	3	3
Unknown foreign substance	3	3	3	3
Total ³	10	10	10	10

U.S. Sample grade Soybeans that:

- (a) Do not meet the requirements for U.S. Nos. 1, 2, 3, or 4; or
- (b) Have a musty, sour, or commercially objectionable foreign odor (except garlic odor); or
- (c) Are heating or of distinctly low quality.

¹ Disregard for Mixed soybeans.

² In addition to the maximum count limit, stones must exceed 0.1 percent of the sample weight.

³ Includes any combination of animal filth, castor beans, crotalaria seeds, glass, stones, and unknown foreign substances. The weight of stones is not applicable for total other material.

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