

**Grain Inspection, Packers and Stockyard Admin. (FGIS), USDA**

**§ 810.405**

round-hole sieve according to procedures prescribed in FGIS instructions.

(f) *Heat-damaged kernels.* Kernels and pieces of corn kernels that are materially discolored and damaged by heat.

(g) *Sieves.* (1) *12/64 round-hole sieve.* A metal sieve 0.032 inch thick with round perforations 0.1875 (12/64) inch in diameter which are 1/4 inch from center to center. The perforations of each row shall be staggered in relation to the adjacent row.

(2) *6/64 round-hole sieve.* A metal sieve 0.032 inch thick with round perforations 0.0937 (6/64) inch in diameter which are 5/32 inch from center to center. The perforations of each row shall be staggered in relation to the adjacent row.

[52 FR 24418, June 30, 1987, as amended at 52 FR 24437, June 30, 1987; 52 FR 28534, July 31, 1987]

PRINCIPLES GOVERNING THE APPLICATION OF STANDARDS

**§ 810.403 Basis of determination.**

Each determination of class, damaged kernels, heat-damaged kernels, waxy corn, flint corn, and flint and dent corn is made on the basis of the grain after the removal of the broken corn and foreign material. Other determinations not specifically provided for under the general provisions are made on the basis of the grain as a whole, except the determination of odor is made on either the basis of the grain as a whole or the grain when free from broken corn and foreign material.

[52 FR 24418, June 30, 1987; 52 FR 28534, July 31, 1987]

GRADES AND GRADE REQUIREMENTS

**§ 810.404 Grades and grade requirements for corn.**

Grade	Minimum test weight per bushel (pounds)	Maximum limits of		
		Damaged kernels		Broken corn and foreign material (percent)
		Heat damaged kernels (percent)	Total (percent)	
U.S. No. 1 .....	56.0	0.1	3.0	2.0
U.S. No. 2 .....	54.0	0.2	5.0	3.0
U.S. No. 3 .....	52.0	0.5	7.0	4.0
U.S. No. 4 .....	49.0	1.0	10.0	5.0
U.S. No. 5 .....	46.0	3.0	15.0	7.0

U.S. Sample Grade

U.S. Sample grade is corn that:

- (a) Does not meet the requirements for the grades U.S. Nos. 1, 2, 3, 4, or 5; or
- (b) Contains stones with an aggregate weight in excess of 0.1 percent of the sample weight, 2 or more pieces of glass, 3 or more crotalaria seeds (*Crotalaria* spp.), 2 or more castor beans (*Ricinus communis* L.), 4 or more particles of an unknown foreign substance(s) or a commonly recognized harmful or toxic substance(s), 8 or more cockleburs (*Xanthium* spp.), or similar seeds singly or in combination, or animal filth in excess of 0.20 percent in 1,000 grams; or
- (c) Has a musty, sour, or commercially objectionable foreign odor; or
- (d) Is heating or otherwise of distinctly low quality.

[60 FR 61196, Nov. 29, 1995]

SPECIAL GRADES AND SPECIAL GRADE REQUIREMENTS

**§ 810.405 Special grades and special grade requirements.**

(a) *Flint corn.* Corn that consists of 95 percent or more of flint corn.

(b) *Flint and dent corn.* Corn that consists of a mixture of flint and dent corn containing more than 5.0 percent but less than 95 percent of flint corn.

(c) *Waxy corn.* Corn that consists of 95 percent or more waxy corn, according to procedures prescribed in FGIS instructions.

[52 FR 24418, June 30, 1987, as amended at 52 FR 24441, June 30, 1987; 52 FR 28534, July 31, 1987]