



**United States
Department of
Agriculture**

**Agricultural
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Service**

**Fruit and
Vegetable
Division**

**Fresh
Products
Branch**

United States Standards for Grades of Cauliflower

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United States Standards for Grades of Cauliflower¹

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Grades

§51.540 U.S. No. 1.

"U.S. No. 1" consists of heads of cauliflower which meet the following requirements:

(a) Basic requirements for curds:

- (1) Clean;
- (2) Compact;
- (3) Color -- white, creamy white, or cream;
- (4) Size -- not less than 4 inches in diameter.

(b) Basic requirements for jacket leaves:

- (1) Fresh;
- (2) Closely trimmed, unless otherwise specified;

¹ Compliance with the provisions of these standards shall not excuse failure to comply with the provision of the Federal Food, Drug and Cosmetic, or with applicable State laws and regulations.

- (3) Fairly clean.
- (c) Free from:
 - (1) Soft or wet decay.
 - (d) Free from damage caused by:
 - (1) Bruising;
 - (2) Cuts;
 - (3) Discoloration;
 - (4) Enlarged bracts;
 - (5) Fuzziness;
 - (6) Hollow stem;
 - (7) Insects;
 - (8) Mold;
 - (9) Riciness;
 - (10) Wilting; and,
 - (11) Other means.
 - (e) Free from serious damage by any cause.
 - (f) For tolerances (see §51.543).

§51.541 U.S. Commercial.

"U.S. Commercial" consists of heads of cauliflower which meet the requirements for the U.S. No. 1 grade except for the increased tolerances for defects specified in §51.543.

Unclassified

§51.542 Unclassified.

"Unclassified" consists of cauliflower which has not been classified in accordance with either of the foregoing grades. The term "unclassified" is not a grade within the meaning of these standards but is provided as a designation to show that no grade has been applied to the lot.

Tolerances

§51.543 Tolerances.

In order to allow for variations incident to proper grading and handling in each of the foregoing grades, the following tolerances, by count, are provided as specified:

- (a) **For defects -- (1) U.S. No. 1.** 10 percent for heads of cauliflower in any lot which fail to meet the requirements of the grade, but not more than one-half of this tolerance, or 5 percent, shall be allowed for defects causing serious damage, including in this latter amount not more than 1 percent for soft or wet decay affecting the curd or butt. (See §51.544.)
- (2) **U.S. Commercial.** 20 percent for heads of cauliflower in any lot which fail to meet the requirements of the grade, but not more than one-half of this tolerance, or 10 percent, shall be allowed for defects causing serious damage, including in this latter amount not more than 1 percent for soft or wet decay affecting the curd or butt. (See §51.544.)
- (b) **For off-size.** 5 percent for heads of cauliflower smaller than the specified minimum curd size and 5 percent for heads of cauliflower larger than any specified maximum curd size. (See §51.544.)

Application of Tolerances

§51.544 Application of tolerances.

The contents of individual packages in the lot, based on sample inspection, are subject to the

following limitations:

(a) A package may contain not more than double any specified tolerance except that at least two defective and two off-size specimens may be permitted in any package: **Provided**, That not more than one specimen which is affected by soft or wet decay occurring on the curd or butt portion of the head may be permitted in any package: **And provided further**, That the averages for the lot are within the tolerances specified for the grade.

Standard Sizing

§51.545 Standard sizing.

(a) Any lot of cauliflower may be designated as meeting the requirements for standard sizing provided the variation in diameter of the curd in any individual package is not more than 1-1/2 inches.

(b) In order to allow for variations incident to proper packing not more than 10 percent of the containers in any lot may fail to meet the requirements for standard sizing.

Definitions

§51.546 Clean.

"Clean" means that the curd is practically free from dirt or other foreign matter.

§51.547 Compact.

"Compact" means that the flower clusters are closely united and the curd is solid.

§51.548 Diameter.

"Diameter" means the greatest dimension measured in a straight line which would pass through the center of the curd.

§51.549 Fresh.

"Fresh" means that the jacket leaves are of normal color and are not wilted.

§51.550 Closely trimmed.

"Closely trimmed" means that the butts are smoothly trimmed and jacket leaves do not exceed the number and length necessary for protection against bruising, and do not extend above the crown of the curd. No jacket leaves are required on heads which are individually wrapped, or packed with cushions, partitions or other protective means.

§51.551 Fairly clean.

"Fairly clean" means the jacket leaves are not caked or badly smeared with dirt or other foreign matter.

§51.552 Curd.

"Curd" means the edible portion of the head exclusive of the butt and any attached jacket leaves.

§51.553 Soft or wet decay.

"Soft or wet decay" means any soft or mushy breakdown of the curd, butt, or leaves.

§51.554 Damage.

"Damage" means any specific defect described in this section; or an equally objectionable variation of any one of these defects, any other defect, or any combination of defects, which materially detracts from the appearance, or the edible or marketing quality of the cauliflower. The following specific defects shall be considered as damage:

(a) Bruising when the size or color of the affected area materially detracts from the appearance or marketing quality, or when more than a small portion of the curd has broken off;

(b) Cuts when materially detracting from the appearance or marketing quality, or when any cut

exposes the flower stem;

(c) Discoloration when yellow or other abnormal color materially detracts from the appearance of the curd, or of the jacket leaves of closely trimmed cauliflower, or seriously detracts from the appearance of the jacket leaves of cauliflower not closely trimmed;

(d) Enlarged bracts when leaves growing up through and extending above the curd materially detract from the appearance of the head;

(e) Fuzziness when more than one-third of the curd surface has a distinct fuzzy appearance;

(f) Hollow stem when the opening extends into the curd, or when the opening is more than slightly discolored or watersoaked;

(g) Insects when any feeding injury on the curd is evident, or when the curd is more than slightly infested or the jacket leaves are more than moderately infested with aphids or other insects;

(h) Mold when the aggregate area of all spots exceeds that of a circle three-eighths inch in diameter, or when the area of any individual spot exceeds that of a circle one-eighth inch in diameter. Mold which causes disintegration of the curd is considered soft decay; and,

(i) Riciness when causing the surface of the curd to be abnormally rough or granular.

§51.555 Serious damage.

"Serious damage" means any specific defect described in this section, any other defect, or any combination of defects, which seriously detracts from the appearance, or the edible or marketing quality of the cauliflower. The following specific defects shall be considered as serious damage:

(a) Insects when the curd is more than slightly infested or the jacket leaves badly infested with aphids or other insects, or when insect feeding injury seriously detracts from the appearance of the head;

(b) Soft or wet decay affecting any portion of the head.

Metric Conversion Table

§51.556 Metric conversion table.

Inches	Millimeters (mm)
1/3 equals.....	3.2
1/4 equals.....	6.4
1/2 equals.....	12.7
3/4 equals.....	19.1
1 equals.....	25.4
1-1/2 equal.....	38.1
2 equals.....	50.8
3 equals.....	76.2
4 equals.....	101.6
5 equals.....	127.0
6 equals.....	152.4
7 equals.....	177.8
8 equals.....	203.2
9 equals.....	228.6