



**United States  
Department of  
Agriculture**

**Agricultural  
Marketing  
Service**

**Fruit and  
Vegetable  
Division**

**Fresh  
Products  
Branch**

# **United States Standards for Grades of Grapes for Processing and Freezing**

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# United States Standards for Grades of Grapes for Processing and Freezing <sup>1</sup>

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## **General**

### **§51.2150 General.**

(a) These standards apply to all types of grapes, hand-picked or mechanically harvested, which are to be processed.

(b) The grade of a lot of grapes shall be determined on the basis of a composite sample.

## **Grades**

### **§51.2151 U.S. No. 1.**

"U.S. Grade No. 1" consists of grapes and juice which meet the following requirements:

(a) Basic requirements:

(1) Mature; and,

(2) Similar varietal characteristics.

(b) Free from:

(1) Decay;

(2) Visible mold;

(3) Immature berries;

(4) Sunburn;

(5) Freezing;

(6) Attached insects or insect injury; and,

(7) Foreign material.

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

(c) Free from damage by any cause. (See §51.2159.)

(d) For tolerances, see §51.2153.

**§51.2152 U.S. No. 2.**

"U.S. No. 2" consists of grapes and juice which meet the requirements of the U.S. No. 1 grade except:

(a) Berries shall be at least fairly well matured; and,

(b) Increased tolerances for defects and foreign material. (See §51.2153.)

**Tolerances**

**§51.2153 Tolerances.**

(a) No tolerance is provided in these standards for grapes which fail to meet the maturity requirement.

(b) In order to allow for variations incident to proper culture, harvesting and handling in each of the foregoing grades, tolerances, by weight, other than for maturity, are set forth in Table I.

TABLE I

	U.S. No. 1 (pct by weight)	U.S. No. 2 (pct by weight)
A. Total defects.....	10.....	10.
1. Serious damage (Included in "A")	6.....	6.
(a) Berries affected by mold or decay (included in "1").	3.....	3.
(b) Dissimilar varieties (included in "1").	1/2 of 1.....	1/2 of 1.
(c) Berry moth, attached insects or other insects or injury (included in "1").	1/2 of 1.....	1.
B. Foreign material.....	3.....	4.
(a) Leaves, petioles, or other plants parts, except for unattached petioles (included in "B").	3.....	4.
(b) All other foreign material (included in "B").	1/2 of 1.....	1/2 of 1.

**Definitions**

**§51.2154 Mature.**

"Mature" means that representative samples of grapes and juice from containers in a lot shall test, unless otherwise specified, not less than 15.5 percent soluble solids, as determined by an approved refractometer.

**§51.2155 Fairly well matured.**

"Fairly well matured" means that representative samples of grapes and juice from containers in a lot shall test, unless otherwise specified, not less than 14.5 percent soluble solids, as determined

by an approved refractometer.

**§51.2156 Foreign material.**

"Foreign material" means sticks, stones, leaves, petioles or other plant parts or other extraneous material.

**§51.2157 Similar varietal characteristics.**

"Similar varietal characteristics" means grapes having same characteristic skin and pulp color.

**§51.2158 Unattached petioles.**

"Unattached petioles" means petioles that are completely devoid of their leaf.

**§51.2159 Damage.**

"Damage" means any specific defect described in §51.2161, Table II; or an equally objectionable variation of any one of these defects, any other defect, or any combination of defects, which materially detracts from the processing quality of the grapes.

**§51.2160 Serious damage.**

"Serious damage" means any specific defect described in §51.2161, Table II; or an equally objectionable variation of any one of these defects, any other defect, or any combination of defects, which seriously detracts from the processing quality of the grapes.

**§51.2161 Classification of defects.**

TABLE II

Defects	Damage	Serious Damage
Dried berries.....	When berries are dry and shrivelled to the extent that practically no moisture is present within the berries.	
Discoloration.....	See Serious damage.	When darker than plate 7.5 RP 3/4 in the Munsell Book of Color. <sup>2</sup>
Sunburn.....	See Serious damage.	When sunken, discolored, and dried area caused by sunburn affects the skin or flesh of the grape.
Decay or Mold.....	See Serious damage.	Any visible decay or mold on the grape skin or penetrating the flesh.
Insects or insect injury.	See Serious damage.	Any insect injury penetrating the flesh or any insect attached to the grape.
Immature	See Serious damage.	When berries are hard and green and generally small.

<sup>2</sup>This color plate may be purchased from the Munsell Color Co., 2441 North Calvert St., Baltimore, Md. 21218.