

§ 51.652 Classification of defects.

TABLE IV

Factor	Injury	Damage	Serious damage	Very serious damage
Ammoniation .....	.....	Not occurring as light speck type .....	Scars are cracked or dark and aggregating more than a circle 3/4 inch in diameter on a 70 size grapefruit.	Aggregating more than 25 percent of the surface.
Buckskin .....	.....	Aggregating more than a circle 1 1/4 inches in diameter on a 70 size grapefruit.	Aggregating more than 25 percent of the surface.	Aggregating more than 50 percent of the surface.
Caked melanese .....	.....	.....	Aggregating more than a circle 1 inch in diameter on a 70 size grapefruit.	Aggregating more than 25 percent of the surface.
Dryness or mushy condition.	.....	Affecting all segments more than 1/4 inch at stem end, or the equivalent of this amount, by volume, when occurring in other portions of the fruit.	Affecting all segments more than 1/2 inch at stem end, or the equivalent of this amount, by volume, when occurring in other portions of the fruit.	Affecting all segments more than 3/4 inch at stem end, or the equivalent of this amount, by volume, when occurring in other portions of the fruit.
Green spots or oil spots.	More than slightly affecting appearance.	Aggregating more than a circle 1 inch in diameter on a 70 size grapefruit.	Aggregating more than a circle 1 1/2 inches in diameter on a 70 size grapefruit.	.....
Hail .....	Not well healed, or aggregating more than a circle 2/3 inch in diameter on a 70 size grapefruit.	Not well healed, or aggregating more than a circle 1/2 inch in diameter on a 70 size grapefruit.	Not well healed, or aggregating more than a circle 5/8 inch in diameter on a 70 size grapefruit.	Not well healed, or aggregating more than a circle 1 inch in diameter on a 70 size grapefruit.
Scab .....	.....	Materially detracts from the shape or texture, or aggregating more than a circle 3/4 inch in diameter on a 70 size grapefruit.	Seriously detracts from the shape or texture, or aggregating more than a circle 1 inch in diameter on a 70 size grapefruit.	Aggregating more than 25 percent of the surface.
Scale .....	More than a few adjacent to the "button" at the stem end, or more than 6 scattered on other portions of the fruit.	Blotch aggregating more than a circle 3/4 inch in diameter, or occurring as a ring more than a circle 1 1/4 inches in diameter on a 70 size grapefruit.	Blotch aggregating more than a circle 1 inch in diameter, or occurring as a ring more than a circle 1 1/2 inches in diameter on a 70 size grapefruit.	Aggregating more than 25 percent of the surface.
Skin breakdown .....	.....	Aggregating more than a circle 3/8 inch in diameter on a 70 size grapefruit.	Aggregating more than a circle 5/8 inch in diameter on a 70 size grapefruit.	Aggregating more than a circle 1 1/4 inches in diameter on a 70 size grapefruit.
Scars .....	Depressed, not smooth, or detracts from appearance more than the amount of discoloration permitted in the grade..	Very deep or very rough aggregating more than a circle 1/2 inch in diameter; deep or rough aggregating more than 1 inch in diameter; slightly rough or of slight depth aggregating more than 10 percent of fruit surface. All areas based on a 70 size grapefruit.	Very deep or very rough aggregating more than a circle 1 inch in diameter; deep or rough aggregating more than 5 percent of fruit surface; slight depth or slightly rough aggregating more than 15 percent of fruit surface. All areas based on a 70 size grapefruit.	Very deep or very rough or unsightly that appearance is very seriously affected.
Sprayburn .....	Hard or aggregating more than a circle 1 1/4 inches in diameter on a 70 size grapefruit.	Aggregating more than 25 percent of the surface.	.....	.....
Sunburn .....	Skin is flattened, dry, darkened, or hard, aggregating more than 25 percent of fruit surface.	Skin is hard, fruit is decidedly one-sided, aggregating more than one-third of fruit surface.	Aggregating more than 50 percent of fruit surface.	.....

TABLE IV—Continued

Factor	Injury	Damage	Serious damage	Very serious damage
Sprouting .....	More than 6 seeds are sprouted, including not more than 1 sprout extending to the rind, remainder average not over ¼ inch in length.	More than 6 seeds are sprouted, including not more than 2 sprouts extending to the rind, remainder average not over ½ inch in length.	More than 6 seeds are sprouted, including not more than 3 sprouts extending to the rind, remainder average not over ¾ inch in length.	
Thorn scratches .....	Not well healed, or more unsightly than discoloration permitted in the grade.	Not well healed, hard concentrated thorn injury aggregating more than a circle ¾ inch in diameter, or slight scratches aggregating more than a circle 1 inch in diameter. All areas based on a 70 size grapefruit.	Not well healed, hard concentrated thorn injury aggregating more than a circle ⅝ inch in diameter, or slight scratches aggregating more than a circle 1¼ inches in diameter. All areas based on a 70 size grapefruit.	Aggregating more than 25 percent of the surface.

METRIC CONVERSION TABLE

§ 51.653 Metric conversion table.

Inches	Millimeters (mm)
1/4 equals .....	6.4
3/8 equals .....	9.5
1/2 equals .....	12.7
9/16 equals .....	14.3
5/8 equals .....	15.9
3/4 equals .....	19.1
7/8 equals .....	22.2
1 equals .....	25.4
1 1/4 equals .....	31.8
1 1/2 equals .....	38.1
3 equals .....	76.2
3 1/16 equals .....	79.4
3 3/16 equals .....	85.7
3 9/16 equals .....	88.9
3 11/16 equals .....	92.1
3 13/16 equals .....	96.8
3 14/16 equals .....	98.4
3 15/16 equals .....	100.0
4 1/16 equals .....	104.8
4 3/16 equals .....	109.5
4 5/16 equals .....	114.3
4 7/16 equals .....	120.7
5 equals .....	127.0

**Subpart—United States Standards for Grades of Oranges (Texas and States Other Than Florida, California, and Arizona)**

SOURCE: 34 FR 13909, Aug. 30, 1969; 34 FR 14325, Sept. 12, 1969, unless otherwise noted. Redesignated at 42 FR 32514, June 27, 1977, and further redesignated at 46 FR 63203, Dec. 31, 1981.

GENERAL

§ 51.680 General.

The standards in this subpart apply only to the common or sweet orange group and varieties belonging to the Mandarin group except tangerines for which separate U.S. Standards are issued.

GRADES

§ 51.681 U.S. Fancy.

“U.S. Fancy” consists of oranges which meet the following requirements:

- (a) Basic requirements:
  - (1) Discoloration:
    - (i) Not more than one-tenth of the surface, in the aggregate, may be affected by discoloration. (See § 51.700.)
  - (2) Firm;
  - (3) Mature;

- (4) Similar varietal characteristics;
- (5) Well colored;
- (6) Well formed; and,
- (7) Smooth texture.
- (b) Free from:
  - (1) Ammoniation;
  - (2) Bruises;
  - (3) Buckskin;
  - (4) Caked melanose;
  - (5) Creasing;
  - (6) Cuts not healed;
  - (7) Decay;
  - (8) Growth cracks;
  - (9) Scab;
  - (10) Skin breakdown;
  - (11) Sprayburn;
  - (12) Undeveloped segments; and,
  - (13) Wormy fruit.
- (c) Not injured by:
  - (1) Green spots;
  - (2) Oil spots;
  - (3) Split navels;
  - (4) Rough, wide or protruding navels;
  - (5) Scale;
  - (6) Scars; and,
  - (7) Thorn scratches.
- (d) Not damaged by any other cause.
- (e) For tolerances see § 51.689.

§ 51.682 U.S. No. 1.

“U.S. No. 1” consists of oranges which meet the following requirements:

- (a) Basic requirements:
  - (1) Discoloration:
    - (i) Not more than one-third of the surface, in the aggregate, may be affected by discoloration. (See § 51.700.)
  - (2) Firm;
  - (3) Mature;
  - (4) Similar varietal characteristics;
  - (5) Well formed;
  - (6) Fairly smooth texture; and,
  - (7) Color:
    - (i) Early and midseason varieties shall be fairly well colored.
    - (ii) For Valencia and other late varieties, not less than 50 percent, by count, shall be fairly well colored and the remainder reasonably well colored.
- (b) Free from:
  - (1) Bruises;
  - (2) Cuts not healed;
  - (3) Caked melanose;
  - (4) Decay;
  - (5) Growth cracks;
  - (6) Sprayburn;
  - (7) Undeveloped segments; and,
  - (8) Wormy fruit.