

TABLE III—EXTERNAL DEFECTS

Defect	Damage		Serious damage	
	When materially detracting from appearance of potato	When removal causes loss of more than 5 percent of total weight of potato	When seriously detracting from appearance of potato	When removal causes loss of more than 10 percent of total weight of potato
Air cracks .....	X .....	.....	X.	
Bruises .....	X .....	X .....	X .....	X.
Dirt .....	X .....	.....	X.	
Enlarged lenticels .....	X .....	.....	X.	
External discoloration .....	X .....	.....	X.	
Flea Beetle injury .....	X .....	X .....	X .....	X.
Greening .....	X .....	X .....	X .....	X.
Rhizoctonia .....	X .....	.....	X.	
Scab, pitted .....	X .....	X .....	X .....	X.
Scab, russet .....	X .....	.....	X.	
Scab, surface .....	When more than 5 percent of surface affected.	.....	When more than 25 percent of surface affected.	
Sunburn .....	.....	X .....	.....	X.
Second growth .....	X .....	.....	X.	
Growth cracks .....	X .....	.....	X .....	

Defects	Damage	Serious damage <sup>1</sup>
Wireworm or grass damage. ....	When any hole in a potato 2½ inches in diameter or 6 ounces in weight is more than ¾ inch long, or when the aggregate length of all holes is more than 1¼ inches, or correspondingly shorter or longer holes in smaller or larger potatoes.	When any hole in a potato 2½ inches in diameter or 6 ounces in weight is more than 1½ inches long, or when the aggregate length of all holes is more than 2 inches, or correspondingly shorter or longer holes in smaller or larger potatoes.
Insects or worms .....	(See serious damage) .....	When present inside the potato.
Artificial coloring .....	When unsightly or when concealing any defect causing damage or when penetrating the flesh and removal causes loss of more than 5 percent of total weight of potato.	When concealing a serious defect or when penetrating into the flesh and removal causes loss of more than 10 percent of total weight of potato.
Sprouts .....	When more than 10 percent of the potatoes in any lot have any sprout more than ¾ inch in length or have individual sprouts or clusters of sprouts which materially detract from the appearance of the potato.	

<sup>1</sup> The following defects are considered serious damage when present in any degree: 1. Freezing. 2. Late blight. 3. Ring rot. 4. Southern bacterial wilt. 5. Soft rot. 6. Wet breakdown.

§ 51.1565 Internal defects.

Internal defects are defects which cannot be detected without cutting the potato. Some internal defects are listed in Table IV.

TABLE IV—INTERNAL DEFECTS

Defects	Damage, maximum allowed	Serious damage, maximum allowed
Occurring outside of or not entirely confined to the vascular ring		
Ingrown Sprouts, Internal Black Spot, Internal Discoloration, Vascular Browning, Fusarium Wilt, Net Necrosis, Other Necrosis, Stem End Browning.	5% waste .....	10% waste.
Occurring entirely within the vascular ring		
Hollow Heart or Hollow Heart with Discoloration.	Area affected not to exceed that of a circle ½ inch in diameter in a potato 2½ inches in diameter or 6 ounces in weight. <sup>1</sup>	Area affected not to exceed that of a circle ¾ inch in diameter in a potato 2½ inches in diameter or 6 ounces in weight. <sup>1</sup>
Light Brown Discoloration (Brown Center).	Area affected not to exceed that of a circle ½ inch in diameter in a potato 2½ inches in diameter or 6 ounces in weight. <sup>1</sup>	Area affected not to exceed that of a circle ¾ inch in diameter in a potato 2½ inches in diameter or 6 ounces in weight. <sup>1</sup>

TABLE IV—INTERNAL DEFECTS—Continued

Defects	Damage, maximum allowed	Serious damage, maximum allowed
Internal Brown Spot and Similar Discoloration (Heat Necrosis).	Not more than the equivalent of 3 scattered spots 1/8 inch in diameter in a potato 2 1/2 inches in diameter or 6 ounces in weight. <sup>1</sup>	Not more than the equivalent of 6 scattered spots 1/8 inch in diameter in a potato 2 1/2 inches in diameter or 6 ounces in weight. <sup>1</sup>

<sup>1</sup> Note: Correspondingly lesser or greater areas in smaller or larger potatoes.

[35 FR 18258, Dec. 1, 1970. Redesignated at 42 FR 32514, June 27, 1977, and further redesignated at 46 FR 63203, Dec. 31, 1981; amended at 56 FR 7553, Feb. 25, 1991; 56 FR 10302, Mar. 11, 1991]

METRIC CONVERSION TABLE

§ 51.1566 Metric conversion table.

Inches	Millimeters (mm)
1/8 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 equals .....	38.1
2 equals .....	50.8
2 1/2 equals .....	63.5
3 equals .....	76.2
3 1/2 equals .....	88.9
4 equals .....	101.6
4 1/2 equals .....	114.3

  

Ounces	Grams
1 equals .....	28.35
4 equals .....	113.40
5 equals .....	141.75
6 equals .....	170.10
7 equals .....	198.45
8 equals .....	226.80
9 equals .....	255.15
10 equals .....	283.50
12 equals .....	340.20
14 equals .....	396.90
16 equals .....	453.60
18 equals .....	510.30
19 equals .....	538.60
20 equals .....	567.00

rot or wet breakdown, and from damage caused by sunburn, second growth, growth cracks, air cracks, hollowheart, internal discoloration, cuts, shriveling, sprouting, scab, dry rot, rhizoctonia, other diseases, wireworm, other insects, or mechanical or other means. Potatoes of these grades shall also be mature: *Provided*, That potatoes which are not mature and the outer skin loosens or "feathers" readily under the usual handling practices need not meet this requirement if they are firm and are further designated as "Early" in connection with the grade, as for example "U.S. Grade A Medium-Early." Potatoes on the shown face shall be reasonably representative in size and quality of the contents of the containers. (See §51.5177.)

(a) *Tolerances.* Incident to proper grading and handling, except for the tolerances for size, not more than a total of 5 percent, by weight, of the potatoes in any lot may fail to meet the requirements of the grade, including not more than 1 percent for potatoes affected by soft rot or wet breakdown. (See §51.1579.)

**Subpart—United States Consumer Standards for Potatoes**

SOURCE: 18 FR 7132, Nov. 11, 1953, unless otherwise noted. Redesignated at 42 FR 32514, June 27, 1977, and further redesignated at 46 FR 63203, Dec. 31, 1981.

GRADES

**§51.1575 U.S. Grade A Small; U.S. Grade A Medium; U.S. Grade A Medium to Large; U.S. Grade A Large.**

Potatoes of each of these grades shall be of one variety or similar varietal characteristics which are fairly well shaped, fairly clean, free from freezing injury, blackheart, late blight, and soft

**§51.1576 U.S. Grade B Small; U.S. Grade B Medium; U.S. Grade B Medium to Large; U.S. Grade B Large.**

Potatoes of each of these grades shall meet the requirements for U.S. Grade A Small; U.S. Grade A Medium; U.S. Grade A Medium to Large; and U.S. Grade A Large, except for the increased tolerance for defects specified below. (See §51.1577.)

(a) *Tolerances.* Incident to proper grading and handling, except for the tolerance for size, not more than a total of 20 percent, by weight, of the potatoes in any lot may fail to meet the requirements of the grade, but not more than 5 percent shall be allowed