

**United States Department of Agriculture** 

Marketing and Regulatory Programs

Agricultural Marketing Service

Specialty Crops Program

Specialty Crops Inspection Division

# United States Standards for Grades of Tomato Plants

Effective September 6, 2016

This issue of the United States Standards for Grades of Tomato Plants (81 FR 51297) supersedes the previous issue which has been in effect since January 3, 1944.

Voluntary U.S. grade standards are issued under the authority of the Agricultural Marketing Act of 1946, which provides for the development of official U.S. grades to designate different levels of quality. These grade standards are available for use by producers, suppliers, buyers, and consumers. As in the case of other standards for grades of fresh and processed fruits, vegetables, and specialty crops these standards are designed to facilitate orderly marketing by providing a convenient basis for buying and selling, for establishing quality control programs, and for determining loan values.

The U.S. grade standards and inspection instructions for all fresh and processed fruits, vegetables, and specialty crops are available on the internet and upon request at the address below. These documents provide detailed interpretations of the grade standards and provide step-by-step procedures for grading the product.

Grade standards are issued by the U.S. Department of Agriculture (USDA) after careful consideration of all data and views submitted during rulemaking. The Department welcomes suggestions for improving the standards in future revisions. Comments may be submitted to, and copies of standards and inspection instructions obtained from:

Director, Specialty Crops Inspection Division Specialty Crops Program, USDA, Agricultural Marketing Service 1400 Independence Avenue, SW, STOP 0240 Washington, D.C. 20250

Authority: 7 U.S.C. 1621-1627.

**Non-Discrimination Policy:** In accordance with Federal civil rights law and U.S. Department of Agriculture (USDA) civil rights regulations and policies, the USDA, its Agencies, offices, and employees, and institutions participating in or administering USDA programs are prohibited from discriminating based on race, color, national origin, religion, sex, gender identity (including gender expression), sexual orientation, disability, age, marital status, family/parental status, income derived from a public assistance program, political beliefs, or reprisal or retaliation for prior civil rights activity, in any program or activity conducted or funded by USDA (not all bases apply to all programs). Remedies and complaint filing deadlines vary by program or incident.

Persons with disabilities who require alternative means of communication for program information (e.g., Braille, large print, audiotape, American Sign Language, etc.) should contact the responsible Agency or USDA's TARGET Center at (202) 720-2600 (voice and TTY) or contact USDA through the Federal Relay Service at (800) 877-8339. Additionally, program information may be made available in languages other than English.

To file a program discrimination complaint, complete the USDA Program Discrimination Complaint Form, AD-3027, found online at <a href="http://www.ascr.usda.gov/complaint\_filing\_cust.html">http://www.ascr.usda.gov/complaint\_filing\_cust.html</a> and at any USDA office or write a letter addressed to USDA and provide in the letter all of the information requested in the form. To request a copy of the complaint form, call (866) 632-9992. Submit your completed form or letter to USDA by: (1) mail: U.S. Department of Agriculture, Office of the Assistant Secretary for Civil Rights, 1400 Independence Avenue, SW, Washington, D.C. 20250-9410; (2) fax: (202) 690-7442; or (3) email: <a href="mailto:program.intake@usda.gov">program.intake@usda.gov</a>. USDA is an equal opportunity provider, employer, and lender.

**Note:** Compliance with the 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.

# **United States Standards for Grades of Tomato Plants**

Section		Page No.
Grade		2
§51.4505	U.S. No. 1	2
Tolerance	S	2
§51.4506	Tolerances	2
Standards	s for Bunching	2
§51.4507	Standards for bunching	2
Standards	s for Packing	2
§51.4508	Standards for packing	2
Reserved.		3
§51.4509	Reserved	
Definition	S	3
§51.4510	Similar varietal characteristics.	3
§51.4511	Fairly fresh	3
§51.4512	Strong	
§51.4513	Unbroken	
§51.4514	Fairly straight	
§51.4515	Firm	3
§51.4516	Soft	3
§51.4517	Woody	4
§51.4518	Leafy	4
§51.4519	Normal color	4
§51.4520	Damage	4
§51.4521	Freezing	4
§51.4522	Heating	4
§51.4523	Diameter	4
§51.4524	The length of the stem	4
§51.4525	Length of the main tap root	4

United States Standards for Grades of Tomato Plants (September 6, 2016)

Grade §51.4505 U.S. No. 1.

**"U.S. No. 1"** consists of tomato plants of similar varietal characteristics which are fairly fresh, strong, and unbroken. The stems shall be fairly straight, firm, but not soft, or woody. The tops shall be leafy, and of normal color. The length of the main tap root shall be not less than 1-3/4 inches.

- (a) The plants shall be free from decay, early blight (*Alternaria solani*), and bacterial canker (*Phytomonas michiganensis*), and from damage caused by other diseases, freezing, heating, foreign material, insects, mechanical, or other means.
- (b) Unless otherwise specified, the diameter of the stem of each plant shall be not less than 3/16 inch and the length of the stem shall be not less than 6 inches nor more than 9 inches. (See §51.4506.)

## Tolerances §51.4506 Tolerances.

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

- (a) For defects. Ten percent for tomato plants in any lot which fail to meet the requirements of this grade: *Provided*, That no tolerance shall be allowed for decay, early blight (*Alternaria solani*), or bacterial canker (*Phytomonas michiganensis*).
- (b) For size. Ten percent for tomato plants in any lot which fail to meet the specified size requirements, including therein not more than 5 percent for plants which are smaller than the specified minimum diameter.

# Standards for Bunching §51.4507 Standards for bunching.

Tomato plants may be packed loose or in bunches. When bunched, the number of plants per bunch shall average not less than 50 plants in 50-size bunches and not less than 100 plants in 100-size bunches.

# Standards for Packing §51.4508 Standards for packing.

The plants in individual bunches shall be arranged with the tops of the roots in approximately the same plane and the roots shall be protected by an adequate supply of moistened peat moss, sphagnum moss, or other suitable packing material with moisture holding capacity, well scattered over the roots in the bunch and held in place

United States Standards for Grades of Tomato Plants (September 6, 2016)

with a paper wrap. The bunches shall be packed upright and fairly tightly in containers of sufficient height to accommodate the size of plants packed and in such a manner as to not cause bending or excessive bruising of the plants.

(a) 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 packing requirements.

# Reserved §51.4509 Reserved.

## Definitions

## §51.4510 Similar varietal characteristics.

"Similar varietal characteristics" means that the plants have the same general character of growth and color.

## §51.4511 Fairly fresh.

"Fairly fresh" means that the stems, roots, and foliage are not excessively wilted, limp, or flabby.

## §51.4512 Strong.

"**Strong**" means that the stem is fairly stiff and sturdy enough to hold the top in a reasonably erect position.

#### §51.4513 Unbroken.

"**Unbroken**" means that the stem and that portion of the main tap root remaining on the plant after pulling are not broken.

## §51.4514 Fairly straight.

"Fairly straight" means that the stem is not more than moderately curved or crooked.

#### §51.4515 Firm.

**"Firm"** means that the stem about midway between the growing tip and the base does not yield more than slightly to moderate pressure of the fingers.

## §51.4516 Soft.

**"Soft"** means that the stem about midway between the growing tip and the base yields more than slightly to moderate pressure of the fingers.

United States Standards for Grades of Tomato Plants (September 6, 2016)

## §51.4517 Woody.

"Woody" means that the stem is excessively hard and fibrous.

#### §51.4518 Leafy.

"Leafy" means that the leaves of the plant are of normal development and not small and underdeveloped.

## §51.4519 Normal color.

"Normal color" means that the plant shows a healthy green color.

## §51.4520 Damage.

**"Damage"** means any defect, or any combination of defects, which materially detracts from the normal growth, shipping quality, or general appearance of the plant.

#### §51.4521 Freezing.

"Freezing" means injury to the plant caused by excessively low temperatures.

## §51.4522 Heating.

"Heating" means injury to the plant caused by excessively high temperatures.

#### §51.4523 Diameter.

"**Diameter**" means the greatest thickness of the stem measured at the first internode above the cotyledons.

## §51.4524 The length of the stem.

**"The length of the stem"** means the distance from the top of the underground root system to the growing tip of the plant.

## §51.4525 Length of the main tap root.

"Length of the main tap root" means the distance from the top of the underground root system to the end of the largest central root.