

U.S. Standards

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UNITED STATES STANDARDS FOR SPLIT PEAS

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TERMS DEFINED

501 Definitions.

For the purposes of these standards the following terms shall have the meanings stated below.

- (a) *Bleached Split Peas.* Split peas of green-colored varieties which are bleached distinctly yellow in color or split peas of yellow-colored varieties which are bleached distinctly green in color.
- (b) *Classes.* The following three classes:
 - (1) *Green Split Peas.* Split peas from smooth green dry pea varieties.
 - (2) *Yellow Split Peas.* Split peas from smooth yellow dry pea varieties.
 - (3) *Miscellaneous Split Peas.* Split peas from classes of whole peas other than smooth green or smooth yellow dry pea varieties.
- (c) *Contrasting Split Peas.* Split peas which are of a color contrasting with the predominating class of split peas. Bleached split peas of the predominating class shall not be considered as contrasting split peas.
- (d) *Damaged Split Peas.* Split peas which are distinctly damaged by frost, weather, disease, heat (other than to a material extent), or other causes (except weevil or material heat damage), or are distinctly soiled or stained by nightshade, dirt, or toxic material.
- (e) *Defective Split Peas.* The categories of defective split peas shall be weevil-damaged split peas, heat-damaged split peas, damaged split peas, contrasting split peas, whole peas, white caps, and bleached split peas.
- (f) *Distinctly Low Quality.* Split peas which are obviously of inferior quality because they are stained by an unknown foreign substance; or because they otherwise contain a known toxic substance(s) or an unknown foreign substance(s); or because they are in an unusual state or condition, and which cannot be graded by use of the other grading factors provided in the standards.
- (g) *Fair Color Split Peas.* Split peas that in mass are off-color from the characteristic color of the predominating class as a result of age or any other cause.
- (h) *Foreign Material.* All matter which will pass readily through a 2½/64 round-hole sieve and all matter other than split peas which remains on the sieve. (Foreign material shall include detached seedcoats and pieces of detached seedcoats.)
- (i) *Good Color Split Peas.* Split peas that in mass are practically free from discoloration and have the natural color and appearance characteristic of the predominating class.
- (j) *Heat-Damaged Split Peas.* Split peas which have been materially discolored and damaged by heat.
- (k) *Poor Color Split Peas.* Split peas that in mass are distinctly off-color from the characteristic color of the predominating class as a result of age or any other cause.
- (l) *Split Peas.* Threshed seeds of the garden type pea plant (*Pisum sativum* L. and *Pisum sativum* var. *arvense* (L.) Poir.), which have 50.0 percent or more of the peas split into halves or smaller pieces and contain not more than 10.0 percent of foreign material.
- (m) *Weevil-Damaged Split Peas.* Split peas which are distinctly damaged by the pea weevil or other insects.
- (n) *White Caps.* Split peas with seedcoats attached.
- (o) *Whole Peas.* Dry peas which are not split.
- (p) *2½/64 Round-Hole Sieve.* A 2½/64 round-hole sieve shall be a metal sieve 0.0319 inch thick, perforated with round holes 0.0391 (2½/64) inch in diameter, which are 0.075 inch from center to center. (The perforations of each row shall be staggered in relation to the adjacent rows.)
- (q) *6/64 Round-Hole Sieve.* A 6/64 round-hole sieve shall be a metal sieve 0.0319 inch thick, perforated with round holes 0.0938 (6/64) inch in diameter which are 0.1562 (5/32) inch from center to center. (The perforations of each row shall be staggered in relation to the adjacent rows.)

- (r) *8/64 Round-Hole Sieve.* An 8/64 round-hole sieve shall be a metal sieve 0.0319 inch thick, perforated with round holes 0.1250 (8/64) inch in diameter which are 0.1875 (3/16) inch from center to center. (The perforations of each row shall be staggered in relation to the adjacent rows.)
- (s) *10/64 Round-Hole Sieve.* A 10/64 round-hole sieve shall be a metal sieve 0.0319 inch thick, perforated with round holes 0.1562 (10/64) inch in diameter which are 0.2187 (7/32) inch from center to center. (The perforations of each row shall be staggered in relation to the adjacent rows.)
- (t) *12/64 Round-Hole Sieve.* A 12/64 round-hole sieve shall be a metal sieve 0.0319 inch thick, perforated with round holes 0.1875 (12/64) inch in diameter which are 0.250 (1/4) inch from center to center. (The perforations of each row shall be staggered in relation to the adjacent rows.)

PRINCIPLES GOVERNING THE APPLICATION OF STANDARDS

502 Basis of determinations.

- (a) All factor determinations shall be made on the basis of the split peas as sampled.
- (b) Defects in split peas shall be scored in accordance with the order shown in 501(e) and once an individual pea is scored in a defective category, it shall not be scored for any other defect, but it shall remain as a part of the sample for purposes of determining the percentages of other defects in the sample.

503 Moisture.

Water content in split peas as determined by an approved device according to procedures prescribed in FGIS instructions.

504 Percentages.

All percentages shall be determined on the basis of weight and shall be rounded off in accordance with instructions shown in the [Pea and Lentil Handbook](#) (see 506). Percentages shall be stated in whole and tenth percent to the nearest tenth percent.

505 Interpretive Line Prints.

Interpretive line samples showing the official scoring line for factors that are determined by visual observation shall be maintained by the Federal Grain Inspection Service, U.S. Department of Agriculture, and shall be available for reference in all inspection offices that inspect and grade split peas.

506 References.

The following publications are referenced in these standards and copies will be made available upon request to the Federal Grain Inspection Service, U.S. Department of Agriculture.

- (a) [Equipment Handbook](#), U.S. Department of Agriculture, Federal Grain Inspection Service.
- (b) [Pea and Lentil Handbook](#), U.S. Department of Agriculture, Federal Grain Inspection Service.

GRADES, GRADE REQUIREMENTS, AND GRADE DESIGNATIONS

507 Grades and grade requirements for Split Peas. (See also 509.)

Grading Factors	Maximum percent limits of: Grades U.S. Nos.		
	1	2	3
Split Peas Passing Through -			
10/64-inch Round-Hole Sieve	3.0	15.0	25.0
8/64-inch Round-Hole Sieve	0.5	3.0	5.0
6/64-inch Round-Hole Sieve	0.1	0.2	0.3
Defective Peas			
Weevil-Damaged Split Peas	0.5	1.0	1.5
Heat-Damaged Split Peas	0.2	0.5	1.0
Damaged Split Peas¹	1.0	1.5	2.0
Contrasting Split Peas			
In Green & Yellow Split Peas Only	0.3	0.8	1.5
In Miscellaneous Split Peas Only	0.5	1.0	2.0
Whole Peas	0.5	1.0	2.0
White Caps			
In Green & Yellow Split Peas Only	1.0	2.0	3.0
In Miscellaneous Split Peas Only	1.5	3.0	5.0
Bleached Peas in Green & Yellow Split Peas Only	1.5	3.0	5.0
Foreign Material	0.1	0.2	0.5
Minimum Requirements for Color	Good	Fair	Poor
U.S. Sample Grade shall be split peas which: <ol style="list-style-type: none"> a. Do not meet the requirements for the grades U.S. Nos. 1, 2, or 3; or b. Contain more than 15.0 percent moisture; live weevils, other live insects, insect webbing or filth, metal fragments, broken glass, or commercially objectionable odor; or c. Are heating, or are of distinctly low quality. ¹ Damaged split peas do not include weevil-damaged or heat-damaged split peas.			

508 Grade Designation for Split Peas.

The grade designation for split peas shall include in the following order: (1) The letters "U.S."; (2) the number of the grade or the words "Sample grade," as warranted; (3) the words "or better" when applicable and requested by the applicant prior to inspection; (4) the name of the class and (5) the name of each applicable special grade.

SPECIAL GRADES, SPECIAL GRADE REQUIREMENTS, AND SPECIAL GRADE DESIGNATIONS

509 Special Grade and Requirements.

The special grade "Split pea chips" shall be applied in accordance with the following requirements: The split peas shall readily pass through a 12/64 round-hole sieve. Additional size requirements for the respective numerical grades shall be as follows:

- U.S. No. 1 – Not more than 3.0 percent shall readily pass through a 6/64 round-hole sieve.
- U.S. No. 2 – Not more than 6.0 percent shall readily pass through a 6/64 round-hole sieve.
- U.S. No. 3 – Not more than 10.0 percent shall readily pass through a 6/64 round-hole sieve.

510 Special Grade Designation.

Split pea chips shall be graded and designated according to the grade requirements of the standards otherwise applicable to split peas, except for size, and there shall be added to and made a part of the grade designation, the word "Chips."