

OREGON GRADE STANDARDS  
FILBERTS (HAZELNUTS) IN SHELL  
(Effective August 25, 1975)

OREGON NO. 1 GRADE. "Oregon No. 1" consists of filberts in the shell which meet the following requirements:

- (1) Similar type; and,
- (2) Dry.
- (3) Shells:
  - (a) Well formed; and,
  - (b) Clean and bright.
  - (c) Free from:
    - (i) Blanks; and,
    - (ii) Broken or split shells.
  - (d) Free from damage caused by:
    - (i) Stains; and,
    - (ii) Adhering husk; or,
    - (iii) Other means.
- (4) Kernels:
  - (a) Reasonably well developed; and,
  - (b) Not badly misshapen.
  - (c) Free from:
    - (i) Rancidity;
    - (ii) Decay;
    - (iii) Mold; and,
    - (iv) Insect injury.
  - (d) Free from damage caused by:
    - (i) Shriveling; and,
    - (ii) Discoloration; or,
    - (iii) Other means
- (5) Size: The size shall be specified in connection with the grade in accordance with one of the size classifications in Table 1.
- (6) Tolerances: In order to allow for variations incident to proper grading and handling, the following tolerances, by count, are permitted as specified:
  - (a) For mixed types. 20 percent for filberts which are of a different type.
  - (b) For defects. 10 percent for filberts which are below the requirements of this grade: Provided, that not more than one-half of this amount or 5 percent shall consist of blanks, and not more than 5 percent shall consist of filberts with rancid, decayed, moldy or insect injured kernels including not more than 2 percent for insect injury.
  - (c) For off-size. 15 percent for filberts which fail to meet the requirements for the size specified, but not more than two-thirds of this amount, or 10 percent shall consist of undersize filberts.

Table 1

<b>Size Classifications</b>	<b><u>Maximum size</u></b> Will pass through a round opening of the following size.	<b><u>Minimum size</u></b> Will not pass through a round opening of the following size.
<b>Round type varieties:</b>		
Giant	No maximum	23.0 m.m.
Jumbo/Giant (at least 25% Giant size and balance Jumbo size)	No maximum	22.2 m.m.
Jumbo	No maximum	22.2 m.m.
Large	22.2 m.m.	19.4 m.m.
Medium	19.4 m.m.	17.9 m.m.
Small	17.9 m.m.	No minimum.
<b>Long type varieties:</b>		
Giant	No maximum	22.2 m.m.
Jumbo/Giant (at least 25% Giant size and balance Jumbo size)	No maximum	18.6 m.m.
Jumbo	No maximum	18.6 m.m.
Large	19.0 m.m.	17.5 m.m.
Medium	17.9 m.m.	13.5 m.m.
Small	13.9 m.m.	No minimum.

### **Application of standards**

- (1) The grade of a lot of filberts shall be determined on the basis of a composite sample drawn from containers in various locations in the lot. However, any container or group of containers in which the filberts are obviously of a quality, type or size materially different from that in the majority of containers shall be considered a separate lot, and shall be sampled separately.
- (2) In grading the sample, each filbert shall be examined for defects of the shell before being cracked for kernel examination. A filbert shall be classed as only one defective nut even though it may be defective externally and internally.

### **Definitions**

- (1) "Similar type" means that the filberts in each container are of the same general type and appearance. For example, nuts of the round type shall not be mixed with those of the long type in the same container.
- (2) "Dry" means that the shell is free from surface moisture, and that the shells and kernels combined do not contain more than 10 percent moisture.

- (3) “Well formed” means that the filbert shell is not materially misshapen.
- (4) “Clean and bright” means that the individual filbert and the lot as a whole are practically free from adhering dirt and other foreign material, and that the shells have characteristic color.
- (5) “Blank” means a filbert containing no kernel or a kernel filling less than one-fourth the capacity of the shell.
- (6) “Split shell” means a shell having any crack which is open and conspicuous for a distance of more than one-fourth the circumference of the shell, measured in the direction of the crack.
- (7) “Damage” means any specific defect described in this section; or an equally objectionable variation of any one of these defects, and other defect, or any combination of defects which materially detracts from the appearance, or the edible or marketing quality of the filberts.  
The following specific defects shall be considered as damage:
  - (a) Stains which are dark and materially affect the appearance of the individual shell.
  - (b) Adhering husk when covering more than 5 percent of the surface of the shell in the aggregate.
  - (c) Shriveling when the kernel is materially shrunken, wrinkled, leathery or tough.
  - (d) Discoloration when the appearance of the kernel is materially affected by black color.
- (8) “Reasonably well developed” means that the kernel fills one-half or more of the capacity of the shell.
- (9) “Badly misshapen” means that the kernel is so malformed that the appearance is materially affected.
- (10) “Rancidity” means that the kernel is noticeably rancid to the taste. An oily appearance of the flesh does not necessarily indicate a rancid condition.
- (11) “Moldy” means that there is a visible growth of mold either on the outside or the inside of the kernel.
- (12) “Insect injury” means that the insect frass or web if present inside the nut or kernel shows definite evidence of insect feeding.

### Metric Conversion Table

Millimeters (m.m.)	Inches:	Millimeters (m.m.)	Inches:
24.6.....	62/64	18.6.....	47/64
23.4.....	59/64	17.9.....	45/64
23.0.....	58/64	17.5.....	44/64
22.2.....	56/64	16.7.....	42/64
19.4.....	49/64	13.9.....	35/64
19.0.....	48/64	13.5.....	34/64