California shelled walnuts are available in a variety of sizes and colors. Descriptions and size tolerances are based on the USDA Standards for Grades of Shelled Walnuts. These are highlighted in green text. Also included are some size categories commonly used in the industry and these are highlighted with brown text. Screen sizes are for reference only. Consult your California walnut supplier for exact specifications.

Walnut Halves
Description: 1/4 or more of the kernel is intact. 85% or more of lot, by weight, are half kernels with the remainder three-fourths half kernels.
USDA Size Tolerances: No more than 14% shall pass through 1/4 inch (6.35 mm) round hole of which no more than 1% may pass through 1/32 inch (0.03125 mm) round hole. No more than 5% may pass through 1/4 inch (6.35 mm) round hole. (see Table 3)
Refer to Example 2

Walnut Pieces and Halves (Halves and Pieces)
Description: 20% or more of lot, by weight, are half kernels (1/4 or more of the kernel is intact).
USDA Size Tolerances: No more than 18% shall pass through 1/64 inch (0.015625 mm) round hole of which no more than 3% may pass through 1/32 inch (0.03125 mm) round hole and of 5% no more than 1% may pass through 1/16 inch (0.0625 mm) round screen hole. (see Table 3)
Refer to Examples 2 and 3

Walnut Pieces
Description: Portions of kernels in lot cannot pass through 1/64 inch (0.015625 mm) round openings.
USDA Size Tolerances: No more than 25% shall pass through 1/64 inch (0.015625 mm) round hole of which no more than 5% may pass through 1/32 inch (0.03125 mm) and of 5% no more than 1% may pass through 1/16 inch (0.0625 mm) round hole included in the 5%. (see Table 3)
Refer to Examples 4, 5, 6 and 7

Walnut Medium Pieces
Although not covered in USDA Standards, Medium Pieces are a common size classification used in the California walnut industry. No less than 98% may pass through a 1/16 inch (0.125 mm) screen. No more than 3% may pass through 1/8 inch (0.318 mm) screen. No more than 1% may pass through 1/6 inch (3.175 mm) screen.
Refer to Examples 8, 9, 10, 11, 12, and 13

Walnut Small Pieces
Description: Portions of kernels in lot pass through 1/64 inch (0.015625 mm) round openings but cannot pass through 1/8 inch (0.318 mm) round openings.
USDA Size Tolerances: 10% will not pass through 1/64 inch (0.015625 mm) round hole and 2% pass through 1/4 inch (6.35 mm) round hole. (see Table 3)
Refer to Examples 11, 12, and 14

Walnut Meal (double diced)
The smallest form of the California walnut comes in various consistencies ranging from a coarse meal to a fine powder. Use walnut meal to stuff cakes, integrals into dough and batter, and for walnut compounds. Finely ground walnuts are incorporated into pastes, added to fillings, and used as a thickening agent in sauces. Refer to Example 15

Table 1: USDA Standards

<table>
<thead>
<tr>
<th>Size Classification</th>
<th>Topping Pieces</th>
<th>Syrupers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/64 inch (0.015625 mm)</td>
<td>1/32 inch (0.03125 mm)</td>
<td>1/32 inch (0.03125 mm)</td>
</tr>
<tr>
<td>1/32 inch (0.03125 mm)</td>
<td>1/16 inch (0.0625 mm)</td>
<td>1/16 inch (0.0625 mm)</td>
</tr>
<tr>
<td>1/16 inch (0.0625 mm)</td>
<td>1/8 inch (0.318 mm)</td>
<td>1/8 inch (0.318 mm)</td>
</tr>
<tr>
<td>1/8 inch (0.318 mm)</td>
<td>1/4 inch (0.635 mm)</td>
<td>1/4 inch (0.635 mm)</td>
</tr>
</tbody>
</table>


Walnut Colors
California walnuts may be color sorted to meet specific product needs. The walnut spectrum chart (for comparison only) illustrates the wide range of color classifications available.

- **A** Extra light: No more than 15% shall be darker than extra light of which only 2% (included in the 15%) may be darker than extra light.
- **B** Light: No more than 15% shall be darker than light of which only 2% (included in the 15%) may be darker than light.
- **C** Light amber: No more than 15% shall be darker than light amber of which only 2% (included in the 15%) may be darker than light amber.
- **D** Amber: No more than 10% shall be darker than amber.

The official color chart is available from:

DFA
710 Shafter Avenue, Sacramento, CA 95834-1112
Tel: 916-561-5900 Fax: 916-561-5906
www.dfa.ca.gov

Walnut Spectrum Chart (for comparison only) illustrates the wide range of color classes available.

- A Light
- B Light Amber
- C Amber
- D Brown
- E Green
- F Pink
- G Pink Amber
- H Pink Brown
- I Red
- J Pink Red

Syrupers

- A Light
- B Light Amber
- C Amber
- D Brown
- E Green
- F Pink
- G Pink Amber
- H Pink Brown
- I Red
- J Pink Red

Table 3: USDA Standards

<table>
<thead>
<tr>
<th>Size Classification</th>
<th>Light</th>
<th>Extra Light</th>
<th>Light Amber</th>
<th>Amber</th>
</tr>
</thead>
</table>
| 1/64 inch (0.015625 mm) | No part of any tolerance shall be used to reduce the percentage of halves required or specified in a lot of "pieces and halves and pieces".
| 1/32 inch (0.03125 mm) | No more than 15% shall be darker than light of which only 2% (included in the 15%) may be darker than light.
| 1/16 inch (0.0625 mm) | No more than 15% shall be darker than light amber of which only 2% (included in the 15%) may be darker than light amber.
| 1/8 inch (0.318 mm) | No more than 10% shall be darker than amber.

*Note: Portions of kernels in lot cannot pass through 1/64 inch (0.015625 mm) round openings.*