

Best Practices for Handling & Storage

FOR RETAILERS

Walnut quality and shelf life can be influenced by three general factors:





Product Characteristics and Packaging

The environment during distribution and storage



From Orchard to the Customer

Transportation

The walnut harvest season in California typically runs from late August through early November. Once the outer green hull of the walnut begins to dry and split, the nuts are ready for harvest.

Thanks to their sturdy shells and leathery outer husk, walnuts are exceptionally well protected from pests and other quality issues. If stored and handled properly, they can even be consumed at least one year after harvest, although they're generally consumed much earlier.

Preventing Oxidation/Rancidity

- Cold storage can minimize primary walnut quality issues such as rancidity.
- ➤ To prevent rancidity and extend finished product shelf life, the product should be packaged in materials that do not allow light or air to come into contact with the product.
- Nitrogen flushing (replacing the oxygen with food-grade nitrogen) can also extend the shelf life of unopened sealed product.
- Resealable packaging is ideal for snack mixes and other retail packs, which may be opened and closed several times by the consumer. Packaging should include "Refrigerate after opening" for the consumer to maintain optimal quality.





Storage Recommendations | Keep walnuts refrigerated year-round.





Protect

from insects and pests. Store apart from other at-risk food items



Rotate stock to optimize shelf life.



Cold storage

can minimize primary walnut quality deterioration problems such as food safety risks, lipid oxidation (rancidification) and kernel phenolic oxidation (darkening). Store cool and dry below 10°C and <65% relative humidity.



Walnut moisture kernels should be maintained at 4.3% or less.



Avoid exposure to strong odors as walnuts can absorb odors of other materials if exposed for prolonged periods.



Transportation Logistics

Walnuts should be transported in refrigerated trucks and containers from the handler to the retail warehouse June through September or any high temperature time periods for product shipments.

- Maintain walnut inventories for just-in-time or velocity-timed sales to minimize warehouse time.
- At the point-of-sale, walnuts are shelf stable and should be merchandised on-shelf in a cool, dry area.



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