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## PLANT TISSUE Sampling Guidelines

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### NUT TREES

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ALMOND  
PECAN  
PISTACHIO  
WALNUT

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#### Recommended timing

Leaf tissue samples may be collected at any time during the growing season. For many elements, the least change in concentration occurs during late June to July. University of California guidelines are usually correlated to leaf tissue samples taken in July. Interpretation of tissue samples taken at times other than July are generally interpolated from a knowledge of how nutrient concentration changes as the season progresses and from historical database information.

#### Sampling

For all leaf samples, select trees which are of similar age, variety, rootstock, and vigor. Leaves should be taken about 4-6 feet above ground. Always sample from the current season non-fruiting shoots or spurs. Select a leaf from each of the four quadrants of an individual tree, and sample 20-25 trees from the block. Thus, the sample should be a composite of about 80-100 leaves.

#### Almonds

- March to April..... Select the most recently matured leaf from the base of the spur (usually the basal first to third leaves).
- May ..... Select the most recently matured leaf from the tip of the spur (usually the terminal first to third leaves).
- June to October ..... Select the terminal leaf on the spur.
- Hull samples for boron..... Collect hulls at 4-6 feet above ground from a number of trees at harvest. The total sample should have about 40-50 hulls.

#### Pecans

- April to October ..... Select paired leaflets from mid-portion of leaves.

#### Pistachios

#### Walnuts

- April to October ..... Select terminal leaflets.

#### Preferred analyses

Whole leaves – Test code 1254.

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#### ALMONDS

<p style="text-align: center;"><b>Spur Types</b></p> <p>Non-fruiting, non-expanding spur</p> <p>Non-fruiting, expanding spur</p> <p>Fruiting spur</p> <p>Sample leaves from this one</p>	<p style="text-align: center;"><b>Early Season</b></p> <p>Select the most recently mature leaf from the basal leaves</p>
<p style="text-align: center;"><b>Mid Season</b></p> <p>Select the most recently mature leaf from the terminal leaves</p>	<p style="text-align: center;"><b>Late Season</b></p> <p>Select the terminal leaf on the spur</p>

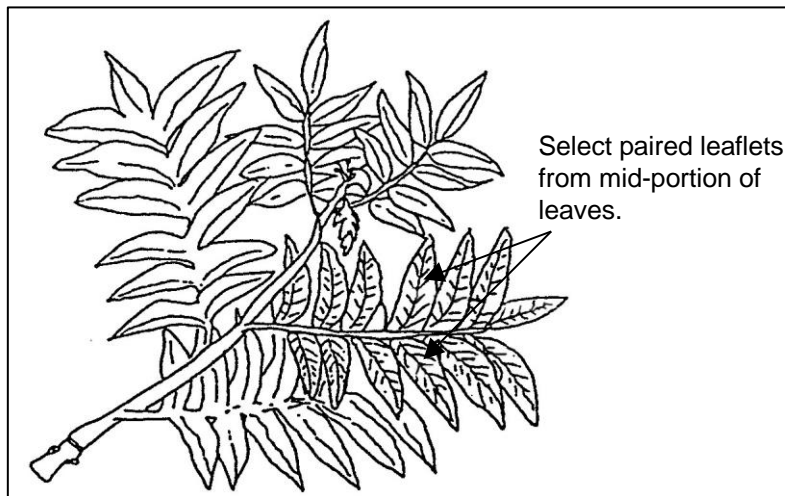
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#### PECANS



#### PISTACHIOS WALNUTS

