



GUIDELINES for ALMOND - PLANT SAP SAMPLING

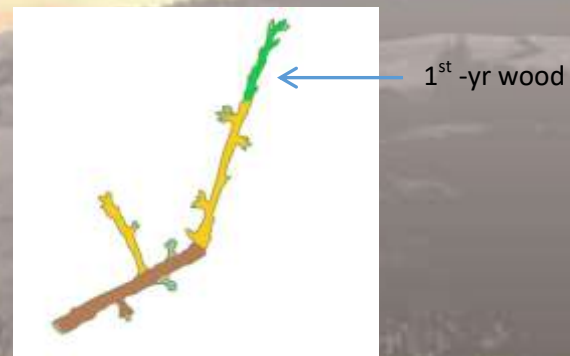
- Select an average representative area in the orchard for monitoring.
- Avoid outer rows and extreme ends of rows.
- Sample consistently from event to event (Sunny side of plants, avoid extreme weather etc.)
- Select average representative plants – avoid diseased plants. If diagnostic analyses are desired sample these areas separately.
- Do not mix varieties in the sample as there may be some variation.
- Sample from Sunrise – 11am (or 80°F), but monitor the same time each sampling event.
- Do not sample immediately after rain – note heat or cold stresses.
- Note fertilizer and irrigation times and application rates if possible.

HOW, WHEN, and HOW OFTEN

- Take the first fully expanded leaves on the latest flush. Sample at least 80-100 leaves (depending on size more may be necessary) through the orchard, no more than 3 per tree.
- Sample at about shoulder height, at up to three different points around the tree.
- Sample New Growth (fully adult photosynthetic) and Old Growth (oldest still functional photosynthetic) separately.
- Begin sampling at fruit set, then every two weeks or monthly to harvest, or sample by crop stage.

Usual sampling times for sap analyses are -

- early fruit set (pair with quicksoil*)
- when fruit size is about 25 mm
- when fruit is 50mm
- when fruit reaches mature size
- post-harvest



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66 AGRICULTURE IS OUR WISEST PURSUIT, BECAUSE
IT WILL IN THE END CONTRIBUTE MOST TO REAL
WEALTH, GOOD MORALS, AND HAPPINESS. 99
—John F. Kennedy, Address to Congress (1961)

HANDLING and TRANSPORT

- Stack leaves.
- Use plastic bags, place New and Old Growth samples in separate bags, and remove all excess air before sealing
- Collect dry samples.
- Keep cool and “dry” (don’t freeze or sit in direct sun). Bring a cooler into fields and store all samples in cooler until shipping.



NEW LEAF

OLD LEAF

- Send via the fastest form of delivery to minimize time in transit. NEW AGE recommends UPS given their reliable morning delivery time at our location.

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South Haven, MI 49090

- Do not over pack– compression will cause deterioration.
- Place sample submission chain of custody (COC) form in shipping container with samples.

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