



UMass Soil & Plant Nutrient Testing Laboratory

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USE THIS FORM FOR PLANT NUTRIENT SAMPLE SUBMISSION FOR TREE FRUIT. See page 2 for sampling instructions and description of services.

Main contact:		Send copy to:	Method of receiving results <input type="checkbox"/> US Mail (please include \$2 per order for postage & handling) <input type="checkbox"/> E-mail Send copies to: _____
Name:	Name:	Name:	
Business Name:	Business Name:	Business Name:	
Street Address:	Street Address:	Street Address:	
City, State, and Zip	City, State, and Zip	City, State, and Zip	
Phone:	Phone:	Phone:	
E-mail address:	E-mail address:	E-mail address:	

LAB # (Leave blank)	Sample ID (You create this)	Test requested	
		Standard (\$30)	or Standard w/o N(\$22)
		<input type="checkbox"/>	<input type="checkbox"/>

Order Total \$ _____

<p><u>Sample Information</u> Crop, management, and soil information Date Sampled: _____ Crop: _____ Variety: _____ Rootstock: _____ Age: _____ (years) Tree spacing or population: _____ Tree vigor: <input type="checkbox"/> poor <input type="checkbox"/> moderate <input type="checkbox"/> vigorous Lime: _____ tons/ac applied on: _____ (date) Fertilizer rate: _____ <input type="checkbox"/> lbs./tree <input type="checkbox"/> lbs./acre Application date(s): _____ Were foliar nutrients applied this season? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, list rate(s) and date(s): _____ Soil Series (if known): _____</p>	<p><u>Complete this section for problem diagnosis</u></p> <p>If leaves are discolored, does color variation occur: <input type="checkbox"/> along leaf margins <input type="checkbox"/> interveinal <input type="checkbox"/> in spots <input type="checkbox"/> over entire leaf</p> <p>Leaves first affected at shoot: <input type="checkbox"/> tip <input type="checkbox"/> base <input type="checkbox"/> over entire shoot</p> <p>Symptoms first seen: _____ (month & growth stage)</p> <p>Describe additional symptoms: _____ _____ _____</p>
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Sampling Instructions:

For a routine evaluation of plant status, we compare nutrient levels to data collected in scientific literature. It is extremely important to collect samples at the growth stage and from the plant part for which plant nutrient data is available.

Collect leaf samples 60 to 70 days after petal fall (between late July and early August for apples). Collect mid-shoot leaves from current season terminal shoots on the periphery of the tree.

Sampled trees should represent the general conditions of the orchard in terms of vigor, crop load, etc. For problem diagnosis, collect one sample from trees in the affected area and a separate sample from unaffected trees or areas. This allows a direct comparison of nutrient levels and may aid in diagnosing specific nutrient deficiencies.

When collecting leaf tissue samples you should avoid diseased or dead leaves, leaves damaged by equipment or insects, or leaves stressed by excessive heat, cold, or moisture.

Each tissue sample should consist of about 50 leaves collected from several trees in the sampling area. Do not mix leaves from different varieties, soil conditions, tree vigor, or fruit load.

Thoroughly rinse leaves to remove pesticides, foliar-applied nutrients, and soil particles. Place sample on clean paper to dry. Place air-dried sample in a **small paper bag labeled with your sample ID** and complete the submission form. Hand deliver or mail sample, submission form, and a check or money order payable to UMass to the address listed at the top of this form.

Plant Nutrient Test Descriptions & Fees

Standard Nutrient Test: \$30.00

A determination of the Total Tissue P, K, Ca, Mg, Zn, Cu, Mn, Fe, and B. Analysis by ICP Spectroscopy of acid wet digestion in Nitric Acid, Hydrochloric Acid, and Hydrogen Peroxide in a block digester. Total Nitrogen is determined by catalytic combustion.

Standard Nutrient Test without Total Nitrogen: \$22.00

Same as Standard Nutrient Test, but without Total Nitrogen