



UMass Soil & Plant Nutrient Testing Laboratory

203 Paige Laboratory
 161 Holdsworth Way
 Amherst, MA 01003
 413-545-2311

soiltest@umass.edu
<http://soiltest.umass.edu/>

USE THIS FORM FOR PLANT NUTRIENT SAMPLE SUBMISSION FOR SMALL FRUIT. (See page 2 for sampling instructions, fees, and description of services.)

Main Contact:	Send Copy to:	Method of receiving results US Mail (Please include \$2 per order for postage & handling) Email Send copies to:
Name:	Name:	
Business Name:	Business Name:	
Street Address:	Street Address:	
City, State, Zip:	City, State, Zip:	
Phone:	Phone:	
Email Address:	Email Address:	

LAB# (Leave blank)	Sample ID (You create this)	Test Requested Standard (\$45) or Standard w/o Nitrogen (\$30)

Order Total \$ _____

<p>Sample Information</p> <p>Crop, management, and soil information</p> <p>Date Sampled: _____</p> <p>Crop: _____ Variety: _____</p> <p>Age: _____ (years)</p> <p>Plant spacing or population: _____</p> <p>Growth stage for grapes: bloom véraison</p> <p>Lime: _____ tons/A applied on: _____ (date)</p> <p>Fertilizer rate(s) and date(s): _____</p> <p>_____</p> <p>_____</p> <p>Soil series (if known): _____</p>	<p>Complete this section for problem diagnosis</p> <p>If leaves are discolored, does color variation occur: Along leaf margins Interveneal In spots Over entire leaf</p> <p>Leaves first affected at shoot: tip base over entire shoot</p> <p>Symptoms first seen: _____ (month & growth stage)</p> <p>Describe additional symptoms: _____</p> <p>_____</p> <p>_____</p> <p>_____</p>
---	---

Office Use Only	
Received	Due
Check#	PO#
Cash	Date

Please make check payable to the University of Massachusetts or "UMass"

General Sampling Procedure:

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.

Specific sampling instructions for most small fruit grown in New England are provided here. For those not listed, it is generally best to sample the most recently developed leaves from the upper portion of the plant.

Samples should reflect areas with uniform management and soil type. Where differences occur within a block, sampling should be refined to represent these changes. Samples should represent only one cultivar, but should be collected from several different plants within the block.

When you suspect a nutrient deficiency, always attempt to collect one sample from plants in the affected area and a second sample from plants of the same variety in an area showing normal growth. This will allow for direct comparison of nutrient levels and may aid in diagnosing specific nutrient deficiencies.

When collecting tissue samples, avoid diseased or dead plant material, tissue damaged by equipment or insects, and plant tissue stressed by excessive heat, cold, or moisture.

After collecting your composite sample, rinse the tissue with clean water to remove pesticides, foliar applied nutrients, and soil particles. Place wet samples on a clean paper towel to dry. Once dry, carefully place sample in a **small paper bag labeled with your sample ID** and complete the submission form. Hand deliver or mail the sample, submission form, and a check or money order **payable to UMass** to the address listed on the front of this form.

Grapevines

Samples should be collected at Full Bloom or Véraison

- Full Bloom: collect 80 to 100 petioles from leaves located opposite the first or second flower cluster from the bottom of the shoot (only 1 to 2 petioles from any vine sampled).
- Véraison (70 to 100 days after full bloom): collect 80 to 100 petioles from the youngest fully expanded leaves (usually located 5 to 7 leaves back from the shoot tip).
- Rinse petioles well, air dry and gently place in paper bag.

Strawberries

- Sample the first fully expanded leaves after renovation, generally late-July to early-August.
- Collect 40 to 50 leaves, remove and discard petioles, rinse leaves well, air dry and gently place in paper bag.

Brambles

- Sample leaves on non-fruiting canes in early- to mid-August.
- Collect 50 to 60 leaves, remove and discard petioles, rinse leaves well, air dry and gently place in paper bag.

Blueberries

- Sample leaves during the first week of harvest.
- Collect 40 to 50 leaves, remove and discard petioles, rinse leaves well, air dry and gently place in paper bag.

Cranberries

- Samples should be collected between mid- August and mid-September.
- Collect the top 2 inches of at least 50 randomly selected new upright tips (leaves and stems, mixed flowering and vegetative). Remove berries.
- Rinse tissue well, air dry, and gently place in paper bag.

Plant Nutrient Test Descriptions & Fees

Standard Nutrient Test: \$45.00

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. Also included Total Nitrogen by catalytic combustion.

Standard Nutrient Test without Total Nitrogen: \$30.00

Same as Standard Nutrient Test but without Total Nitrogen.