



UC  
MASTER  
GARDENERS  
NAPA COUNTY

# Healthy Garden Tips

Web site: <http://cenapa.ucdavis.edu>

Telephone: 707-253-4221

University of California Cooperative Extension – Napa County

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## COMMERCIAL LABORATORIES FOR HOME GARDENERS

### A & L Western Agricultural Labs

1311 Woodland Avenue  
Modesto, CA 95351  
(209) 529-4080

Website: [al-labs-west.com](http://al-labs-west.com)

**Soil:** complete **Water:** irrigation and domestic suitability, no recommendation on domestic; have range of accepted limits; analyze compost, fertilizer, plants

### Anresco, Inc.

1370 Van Dyke Avenue  
San Francisco, CA 94124  
(415) 822-1100

Website: [anresco.com](http://anresco.com)

**Soil & Water:** pesticides and microbes; fruits and vegetables; tests many products also

### Brelje & Race Lab., Inc.

425 South E Street  
Santa Rosa, CA 94504  
(707) 544-8807

**Water:** all; water ag suitability

### Caltest Analytical Lab

1885 North Kelly Road  
Napa, CA 94558  
(707) 258-4000

Website: [caltestlabs.com](http://caltestlabs.com)

**Water:** wastewater analysis; analysis results; no recommendations

### Harmony Farm Supply

P.O. Box 460  
Graton, CA 95444  
(707) 823-9125

Website: [harmonyfarm.com](http://harmonyfarm.com)

**Soil, Water & Plant:** soil, plant & water amendment analysis; fertility evaluation & disease diagnosis; troubleshooting and recommendations

### Environmental Tech. Serv.

975 Transport Way  
Petaluma, CA 94954  
(707) 778-9605

**Soil, Water & Plant:** pesticide residues, soil texture, irrigation suitability, domestic suitability, pH, Boron, nutrient levels, metals, environmentally related plant pathology; written recommendation, asbestos

### Perry Laboratory

424 Airport Boulevard  
Watsonville, CA 95076  
(831) 722-7606

E-mail: [cliff@perrylaboratory.com](mailto:cliff@perrylaboratory.com)

**Soil, Water & Plant:** chemical (not bacteria) tests for water

### Plant Disease Diagnosis

780 Palmer Road  
Walnut Creek, CA 94596  
(925) 937-3841

E-mail: [Luellen@pdd.biz](mailto:Luellen@pdd.biz)

**Plant:** plant pathology, written recommendations; site visits, disease and cultural problem evaluations

### Soil & Plant Laboratory

1101 S. Winchester Blvd., Suite G  
San Jose, CA 95128  
(408) 727-0330

Website: [soilandplantlaboratory.com](http://soilandplantlaboratory.com)

**Soil, Water & Plant:** soil, plant & water amendment analysis; fertility evaluation & disease diagnosis; troubleshooting and recommendations

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This is a partial listing only, without comment about quality. No endorsement of labs is intended, nor is criticism implied of similar labs not mentioned.

## **PLANT TESTING**

### **1. Plant Complete**

Results and recommendations for nitrate nitrogen, phosphorus, potassium, magnesium, calcium, sodium, iron, manganese, aluminum, boron, copper, sulfur and zinc levels.

### **2. Plant Nitrate**

Recommended where nitrogen deficiency is suspected or is usually monitored.

### **3. Plant Sample**

Recommended when any one nutrient other than nitrogen is suspected of being deficient. Any element listed in "Plant Complete", one element per each test.

## **SOIL TESTING**

### **1. Basic Soil Test**

If your plants are doing OK, this will tell you all you want to know. Includes pH, % organic matter, estimated nitrogen release, phosphorus, potassium, calcium, magnesium, cation exchange capacity, cation base saturations for calcium, magnesium, potassium, sodium and hydrogen. Not appropriate for compost, manure or potting soil mixes. We will also give you fertilizer recommendations based on the test results.

### **2. Complete Soil Test**

If you have been experiencing problems with plant growth or yields, we recommend getting this test done. Includes the BASIC plus trace elements: sulfur, zinc, copper, boron, manganese, and iron. Not appropriate for compost, manure or potting soil mixes. Includes recommendations.

### **3. Compost/Manure Analysis**

Results include moisture content, total nitrogen, phosphate (P205), and potash (K20).

#### **3.1 Compost/Manure Analysis Plus**

All of the Compost Test above, plus sulfur, calcium, magnesium, sodium, iron, manganese, copper and zinc.

### **4. Greenhouse/Potting Soil Mix Test**

Use for non-soil mixes or those with more than 10% organic matter content. Nitrate nitrogen, phosphorus, pH, potassium, calcium, magnesium, sodium and electrical conductivity.

#### **4.1 Greenhouse/Potting Soil Mix Test Plus**

Use for soils listed above. Same test plus: sulfur, zinc, manganese, iron, copper and boron.

### **5. Nematode Analysis**

Complete plant parasitic assay. We will email you details on how to take the sample.

### **6. Phylloxera Analysis**

Test for presence of these root destroying insects. Soil and root sample required. We will email you details on how to take the sample.

### **7. Texture Test**

Gives % of sand, silt and clay.

## **WATER TESTING**

### **1. Livestock Suitability**

Levels of sodium, magnesium, calcium, chloride, electrical conductivity, total dissolved solids, sulfate, nitrate and pH and analyzed for suitability for watering livestock.

### **2. Irrigation Suitability**

Levels of sodium, magnesium, calcium, chloride, electrical conductivity, sulfate, nitrate, pH, carbonate, bicarbonate, phosphorus, potassium, boron, total dissolved solids and SAR are analyzed for suitability for watering crops.

### **3. Domestic Suitability**

Levels of purity (confirmed coliform), calcium, magnesium, pH, total hardness, electrical conductivity, total dissolved solids, and nitrate are analyzed for suitability for human drinking water.

#### **3.1 Domestic Suitability Plus**

All of the tests included in the Domestic test above, plus iron and manganese levels.