Horticulture & Agriculture | Soil Submission Form www.capecod.gov/hortclinic



Soil Testing

Cape Cod Cooperative Extension's Horticulture Clinic provides soil solution or active acidity pH measurement and pH adjustment recommendations only. More robust soil analysis is suggested and provided by UMass Soil and Plant Nutrient Testing Laboratory routine soil analysis which includes recommendations for fertility and pH adjustment. A routine soil analysis should be conducted approximately every three years and may aid in diagnosing plant nutritional problems, provide fertility recommendations for optimal growth and inform nutrient use to reduce environmental losses that contribute to poor water quality.

UMass Soil and Plant Nutrient Testing Laboratory: https://ag.umass.edu/services/soil-plant-nutrient-testing-laboratory

Cape Cod Cooperative Extension Horticulture Clinic Soil pH Test

Soil pH is a measure of hydrogen ion activity in the soil. Soil pH influences many aspects of crop (plant) production, including availability of nutrients and toxic substances, activity and diversity of microbial populations, and soil chemistry. A soil pH of 7.0 is neutral, above 7.0 alkaline and below 7.0 is acidic. Soils in the Northeast are typically acidic due to moderate to high levels of rainfall and often require pH adjustment thru liming. For the most accurate soil pH adjustment recommendation use the UMass Soil and Nutrient Testing Laboratory's routine soil analysis which includes a measurement of soil reserve acidity or buffer pH.

Sampling Instructions

The most critical step in soil testing is collecting the sample. A poorly collected sample could result in inaccurate recommendations.

- **Step 1**: Choose the area to be tested. Areas may be chosen by plant type, management or soil (when soil type differs drastically). Common areas to be tested separately would include lawn, vegetable garden, flower beds, etc.
- **Step 2**: Collect soil samples. Using a clean container or bucket and a spade, auger, or sampling tube. Collect 10 or more sub-samples per area to be tested. Sub-samples should be collected to a depth of 6-8 inches, representing the depth evenly.
- **Step 3**: Mix sub-samples. Thoroughly mix sub-samples together. Break up clumps of soil and remove stones, roots, and mulch materials.
- **Step 4**: Dry sample. Air dry the sample and submit approximately 1 cup of soil. Package soil in a clean container such as a Ziploc bag.
- Step 5: Clearly label samples and include a properly filled out form. Mail or deliver.

Samples can be dropped off at our office located at:

1358 Route 28

South Yarmouth, MA 02673

Place sample and form in black mailbox

Or mail to

Cape Cod Cooperative Extension

Horticulture Clinic

PO Box 367

Barnstable, MA 02630

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Cape Cod Cooperative Extension Horticulture Clinic Soil pH Test Form Client Information – *Please fill out completely*

First Name	Last Name	Date		
Address	Town	St	tate	ZIP
Email	Phone			
 Follow sampling instructions to avoid inaccurate recommendations or delay in testing. Samples should include approximately 1 cup of dry soil Clearly mark samples with your name and a sample ID that you create. Designate a crop from the list below for each sample. Lawn Acid Loving Plants (H. macrophylla – blue) Tree Fruit Flowers, Roses & Herbs Vegetable Small Fruit Trees, Shrubs & Vines Asparagus only 				
Sample ID Ex. #1 Back Hill	Crop	pН	Target p	
Remarks	adjustment, do not add limestone or wood			_Tester initials