

Home Soil Testing: Taking a Sample

Collecting Soil Samples

Every square foot of soil can be different. Soil acidity and nutrients vary across the surface of the soil and with the depth of the soil. Therefore, it is important that you take a *composite* sample of the area to be tested.

A composite sample is a collection of 15 to 20 uniform cores or slices of soil taken from random spots in a garden, lawn, or shrub bed. For an accurate test, place the samples from a given area into a clean bucket. Then mix this soil well and place about 1 pint of the mixture into a soil sample box. Soil sample boxes, information sheets, and other supplies for soil testing are available from your county Extension office or garden center.

The following recommendations should help you collect the proper soil samples:

Gardens, new lawns, and other cultivated areas. Take a uniform core or slice of the soil to the depth that the soil was tilled. Use a zig-zag pattern of sampling as shown in Figure 3. Mix 15 to 20 of these cores or slices for the composite sample.

Lawns and established turf. Take a uniform core or slice 2 to 3 inches deep from 15 to 20 spots in the lawn. Take separate samples for the front lawn, back lawn, and other areas where soil may differ or where a different type of grass is grown.

Trees and shrubs. Take uniform cores or slices 6 inches deep from around the drip-line of plants (outer edge of branches). Mix individual cores into a composite sample.

Information and Mailing

Remember to fill in the information on the soil sample box and the information sheet as completely as possible. You must also indicate which plants are to be grown so that fertilizer recommendations can be made. Follow these guidelines:

Vegetable garden. A general recommendation will be made that will be adequate for most garden vegetables. If you have an “organic” vegetable garden and would like a recommendation that does not include chemical fertilizers, please specify “organic vegetable garden.”

Home orchard. A general recommendation will be made for common fruit crops grown in Alabama (peaches, plums, pecans, pears, apples, figs, grapes, strawberries, blackberries, and blueberries).

Lawn. List the specific type of grass to be fertilized (bermuda, zoysia, St. Augustine, centipede, bahia, fescue, bluegrass, carpetgrass, etc.).

Shrubs and perennial flowers. These include most evergreen and deciduous shrubs and small trees as well as flowering shrubs such as azaleas, camellias, rhododendrons, and gardenias. Perennial flowers such as irises and daylilies will also fit into this group. Some shrubs such as azaleas, camellias, and gardenias need an acid soil to prevent iron deficiencies while others need a higher soil pH for best growth. A list of some of the shrubs to be grown will help the laboratory make the best liming recommendations.

Roses, mums, and annual flowers. This group of ornamentals receive slightly higher fertilizer recommendations.

Potted plants. Soil testing is not recommended for potted ornamentals for the homeowner. A diagnostic service is available for large-scale commercial growers of potted plants.

When mailing your samples, enclose the filled soil boxes, the information sheet, and a check or money order to cover service charges in a cardboard shipping box. Tie the box securely and prepay by parcel post to:

**Soil Testing Laboratory
ALFA Agricultural Services
and Research Building
961 S. Donahue Drive
Auburn University, AL 36849-5411**

Note: Soil and plant samples for nematode analysis and disease and insect diagnosis must be mailed separately. County Extension offices have information about submitting these samples.

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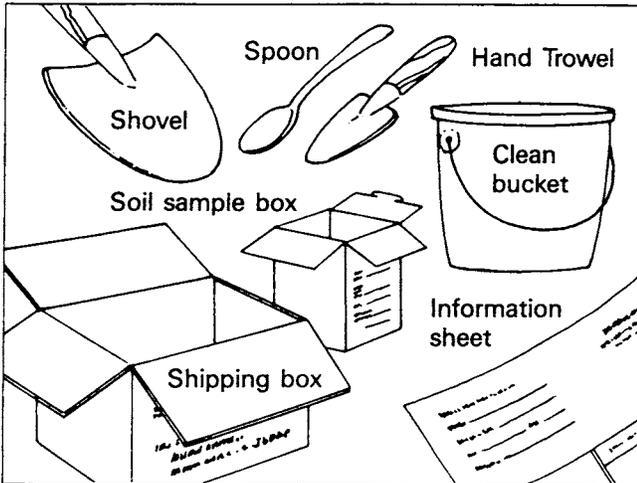


Figure 1. Supplies needed for taking home soil samples.

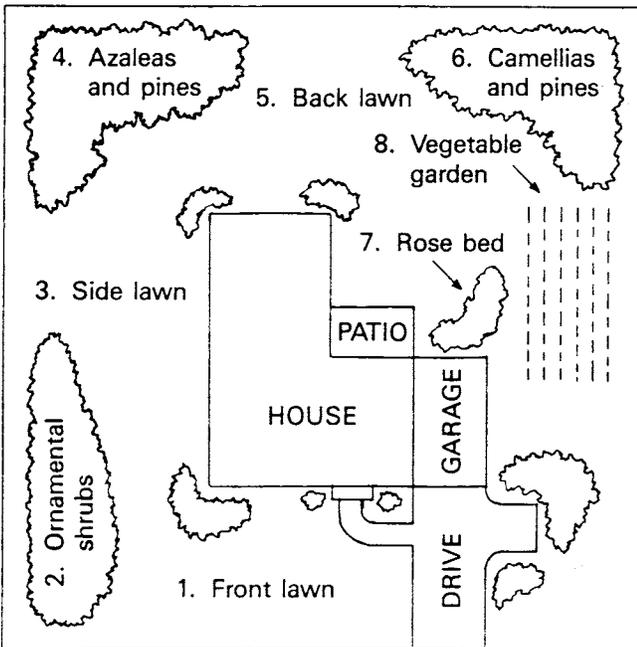


Figure 2. Take separate soil samples from the different areas to be fertilized.

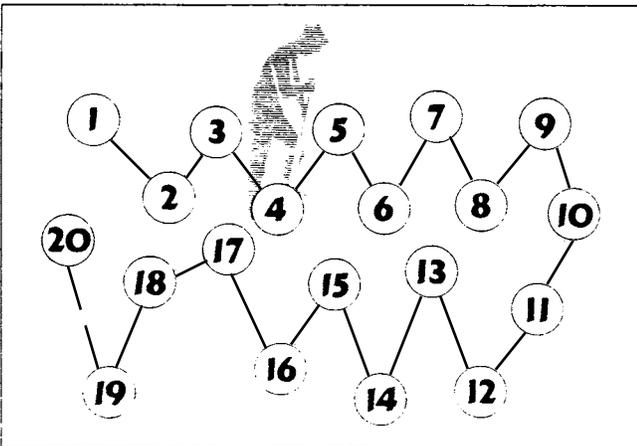


Figure 3. Take 15 to 20 cores or slices of soil in a zig-zag pattern from throughout each sampling area.

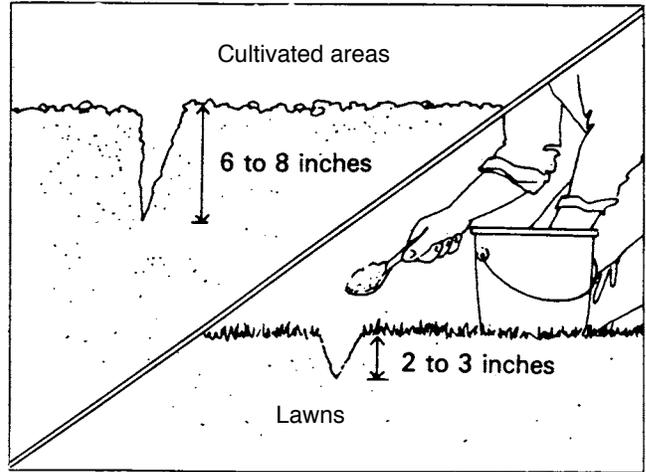


Figure 4. Gardens and other cultivated areas should be sampled as deeply as the soil is tilled—usually 6 to 8 inches. Established lawns should be sampled at 2 to 3 inches deep.

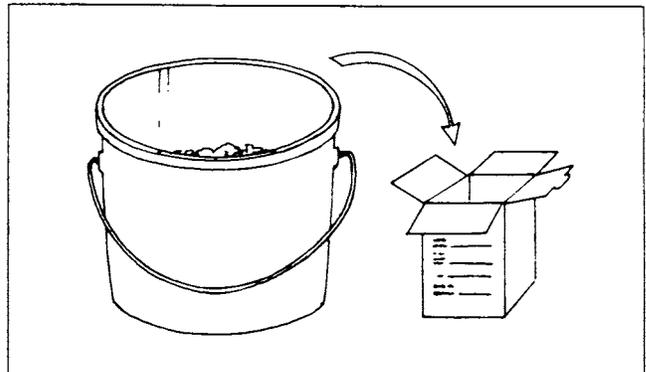


Figure 5. Mix individual cores or slices in a clean bucket. Remove about 1 pint to use as a composite sample.

INFORMATION ON SOIL SAMPLING
For Fertilizer and Lime Recommendations
on Flower Beds, Shrubs,
Gardens, and Lawns
Use only forms for home use.
Professional forms are available
throughout the country.

Date Sample Collected: 5-3-8

Mailing Address (Please Print):
Name: Herb Gardener
Street or R.F.D.: 333 Blossom Rd.
City: Pickens
County: AL 29333

SAMPLE NO. OR NAME	PLANTS TO BE GROWN		LAB. USE ONLY	FERTILIZER RECOMMENDATION	LIME RECOMMENDATION
	NO.	NAME			
Bermuda Grass					
Azaleas					

Figure 6. The soil testing form must be filled out completely to ensure accurate recommendations.