

WEEKLY NEWS COLUMN
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Kelsey Nordyke, Ag and Natural Resources Agent
K-State Research and Extension, Cowley County
P.O. Box 538, 311 East 9th
Winfield, KS 67156

SOIL TESTING AVAILABLE FOR COWLEY COUNTY

Your local Extension Office offers soil testing procedures for local agriculture producers as well as homeowners. Having your soil tested is a great way to prepare for cropping systems, hay production, vegetable gardens and local fruit production. Soil samples are received at the local level and sent to Kansas State University for analysis. The K-State Research and Extension Soil Testing Lab provides high quality analysis of soil, plant, forage, grain, and water for farmers, homeowners, and researchers.

The KSU Soil Testing lab provides a variety of analyses for producers and homeowners. Most commonly, soil is tested for pH, phosphorous, potassium, nitrate and organic matter. Additional testing can be done to determine calcium, magnesium, sodium, cation exchange capacity, iron zinc, copper, manganese, ammonium, sulfate, chloride, aluminum, texture, soluble salts and salt alkali. Samples are dried in an oven in the lab and ground using a pulverizing-type grinder. Once the sample has been analyzed and the data has been reviewed, sample sheets with recommendation are provided to the local Extension Agent and shared with the producer.

Soil testing provides a starting place for a homeowner or producer to begin with soil improvement. Unless you know the deficiencies in your soil, you are only guessing when you apply fertilizer. Soil testing can help produce better crops, lawns, and gardens, as well as save money and prevent runoff of excess nutrients. Soil tests should be taken every 2-4 years. Problem soils should be tested every 1-2 years. Testing packages range in price from \$12-\$20 plus shipping cost to the lab.

To receive an accurate soil analysis, soil samples must be properly collected. First, a representative sample of the entire area where plants are to be grown must be collected. Take a sample or core from at least six different areas. Do not include soil from a turf area and a garden area in the same sample. Garden area samples should be sampled from the soil surface to the depth of tillage, which is about 6-8 inches. Tree, shrub and flower beds should also be sampled 6-8 inches deep. Turf samples should be 4 inches deep.

To collect a sample, first, remove debris (such as turf thatch or residue) from the top of the soil before inserting the soil probe, spade or trowel. When using a spade, turn out one spade full of soil and then shave a one inch slice of earth from the side of the hole. Do this in at least 6 different places in the area being tested and mix all the slices together in a bucket to create the average soil sample for the area. If you have several areas to be sampled, keep a record of each area being sampled (i.e., "vegetable garden", "wheat field", "brome trap", etc.). Label each sample with your name, address, phone number, email and the crop you intend to grow.

Take your samples to the Cowley County Extension Office located on the east side of the Cowley County Courthouse in Winfield. At this time, Cowley County Extension Staff are working

remotely, however, a soil drop box is located outside the door of the Extension Office. The drop box contains sample bags and information forms. Complete the appropriate form for your sample(s) and fill in the information completely on the sample bags provided. Once, you have completed your information, leave the samples and form in the box and secure the box lid. Call the Extension Office at 620-221-5450 and let us know you've left a sample. We will pick up the sample and ship it to the KSU Soil Testing Lab. Producers will be invoiced for the cost of testing.

For more information or additional gardening resources, contact the Cowley County Extension Office 221-5450, 441-4565.

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For more information contact: Kelsey Nordyke
620-221-5450
knordyke@ksu.edu