



Soil Sampling and Analysis

James L. Waghworth, Ph.D., Extension Specialist, Department of Soil, Water and Environmental Science, University of Arizona

Soil analysis can provide important information about physical conditions, fertility (nutrient) status, and chemical properties that affect a soil's suitability for growing plants. Four steps associated with soil testing include: 1) soil sample collection, 2) laboratory analysis, 3) interpretation of results, and 4) fertilizer or other management recommendations. We'll look at soil sample collection and analysis.

SOIL SAMPLE COLLECTION

The first step in soil analysis is soil sample collection. It's important to realize that only a tiny portion of a field is actually analyzed in the laboratory. Thus, collecting a representative soil sample is critical for accurate results.

The most common method is composite sampling. Sub-samples are collected from randomly selected locations in the field. The sub-samples are thoroughly mixed to obtain a representative sample and analysis of this sample gives average values for the entire area. Although the actual number of sub-samples depends on field size and uniformity, no less than 5 sub-samples should be taken, and 15 to 25 are preferred. Usually samples are collected to a depth of about 6 to 8 inches or to the effective rooting depth.

Soil samples should be immediately air-dried at room temperature for two to three days and should not be heated or dried in an oven. If samples cannot be dried immediately, they can be refrigerated for several days and taken to a laboratory as soon as possible.

The primary consideration for timing of soil sample collection is convenience. Collect samples early enough to allow for interpretation and soil management adjustments. Status of some soil nutrients can change quickly, whereas others do not. For example, phosphorus levels in soil are unlikely to change rapidly and frequent testing is unnecessary. Nitrogen levels, on the other hand, change very quickly and only very recent tests will reflect current plant-available levels. When making substantial changes to soil fertility levels, it is a good idea to make the change over a period of two to three years, retesting the soil annually.

Otherwise, occasional testing (once every few years) is adequate in the absence of any noticeable nutritional deficiencies.

SAMPLE ANALYSIS

A soil test determines the soil's nutrient supplying capacity by mixing soil during the analysis with a very strong extracting solution (often an acid or a combination of acids). The soil reacts with the extracting solution, releasing some of the nutrients. As soil supplies most of the mineral nutrition for higher plants through the plant's root system, the extracted nutrient concentration is evaluated based on research that relates plant utilization to soil nutrient concentrations. This works well for some nutrients, but is less accurate for others. Nutrients supplied from soil organic matter (OM) decomposition (such as nitrogen and sulfur) depend more on the rate of OM decomposition than on extractable levels of these nutrients.

Standard or routine soil tests vary from laboratory to laboratory, but generally include soil texture; electrical conductivity (EC, a measure of soil salinity); soil pH; available phosphorus (P), potassium (K), calcium (Ca), and magnesium (Mg); sodium (Na); cation exchange capacity (CEC); and often an analysis of OM content. Most laboratories offer nitrogen (N), sulfur (S), and micronutrient analyses for additional cost.

The methods used to test soils vary depending on soil chemical properties which are affected by geographic region. A listing of local soil test laboratories that use methods suitable for local soils can be found in the University of Arizona publication, "Laboratories Conducting Soil, Plant, Feed or Water Testing" (AZ1111) <http://cats.arizona.edu/pubs/garden/az1111.pdf>.

STANDARD SOIL TESTS

Soil Texture

Soil texture reflects the amounts of various sized particles (sand, silt, and clay) in the soil. Relative amounts of these particles are used to categorize soil into textural classes. Listed generally from most clayey to most sandy these are clay, silty clay, sandy clay, silty clay loam, clay

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Manual on Soil Sampling and Methods of Analysis, 1981 *Soil Sampling, Preparation, and Analysis* Kim H. Tan, 2005-04-29 This second edition of the popular Soil Sampling Preparation and Analysis provides a hands on guide to the methods most commonly used in modern soil laboratories around the world illustrating the methods with actual results Divided into three sections the book covers principles of soil sampling and sources of errors and variability of results common procedures for extraction and analysis in soil plant testing and instrumentation The author added three new chapters on soil and plant test methods electron microscopy and nuclear magnetic resonance He has extensively revised updated and expanded all of the other chapters to reflect recent advances and shifting interests in the field Standard Methods for Analysis of Soil Plant and Water I.C. Gupta, N.P.S. Yaduvanshi, S.K. Gupta, 2012-06-01 Land water and plants are of crucial importance to the mankind While per capita availability of land and water is decreasing due to burgeoning population degradation is resulting in declining productivity per unit of these resources This degradation is impacting the environment and the quality of the field crops consumed by the humans and the animals raising serious concerns on the health of the consumers A concerted effort is being made to keep track of the health of these resources by Central Water Commission Central Pollution Control Board and many state government agencies through limited monitoring networks Soil water health cards are being distributed to the farming community to keep track of the health of these resources Many of these agencies feel handicapped not only in soil water and plants analysis but also in interpreting the analytical results for practical use It is especially true for the salt affected soils and waters which require special attention and management to achieve potential productivity The current book compiles and puts together the most important aspects of the existing knowledge on sampling procedures and physical chemical and biological determinations needed to monitor the soil health and water quality Besides procedures of general interest in agriculture all analysis procedures needed for the reclamation and management of salt affected soils and or poor quality waters have been included Unlike other books of this nature the current book includes

sections where exhaustive interpretations of the analytical results and or their applications have been given in many cases with relevant examples The readers therefore would be able to understand and proceed from the most preliminary step of taking soil water samples to most advanced analytical techniques to diagnose the problems and to take appropriate measures to reverse the degradation processes We believe that this book is an improvement over the existing books and is a useful addition to the literature on this subject The information contained in this book would facilitate the access to and implementation of the knowledge by the scientists engaged in research in the basic streams and agricultural sciences It would also prove to be a useful reference book to professional students and personals engaged in the NGOs and the state laboratories associated with soil water and plant analysis work Manual on Soil Sampling and Methods of Analysis ,1978

Field Sampling Methods for Remedial Investigations Mark Edward Byrnes,2022-09-28 Originally published in 1994 the first edition of Field Sampling Methods for Remedial Investigations soon became a premier resource in this field The Princeton Groundwater course designated it as one of the top books on the market that addresses strategies for groundwater characterization groundwater well installation well completion and groundwater sampling This long awaited third edition provides most current and most cost effective environmental media characterization methods and approaches supporting all aspects of remediation activities This book integrates recommendations from over one hundred of the most current US EPA State EPA US Geological Survey US Army Corps of Engineers and National Laboratory environmental guidance and or technical documents This book provides guidance examples and or case studies for the following subjects Implementing the EPA s latest Data Quality Objectives process Developing cost effective statistical non statistical sampling designs supporting all aspects of environmental remediation activities and available statistical sample design software Aerial photography surface geophysics airborne surface downhole building radiological surveys soil gas surveying environmental media sampling DNAPL screening portable X ray fluorescence measurements Direct push groundwater sampling well installation well development well purging no purge low flow standard groundwater sampling depth discrete ground sampling groundwater modeling Tracer testing slug testing waste container and building material sampling pipe surveying defining background conditions Documentation quality control sampling data verification validation data quality assessment decontamination health safety management of investigation waste A recognized expert on this subject author Mark Byrnes provides standard operating procedures and guidance on the proper implementation of these methods focusing on proven technologies that are acknowledged by EPA and State regulatory agencies as reputable techniques *Bulletin - United States. Bureau of Soils* ,1898 Methods of Soil Analysis, Part 4 Jacob H. Dane,Clarke G. Topp,2020-05-27 The best single reference for both the theory and practice of soil physical measurements Methods Part 4 adopts a more hierarchical approach to allow readers to easily find their specific topic or measurement of interest As such it is divided into eight main chapters on soil sampling and statistics the solid solution and gas phases soil heat solute transport multi fluid flow and erosion More than 100 world

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