



# Soil Sampling and Analysis

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**S**oil 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

# Soil Sampling And Methods Of Analysis

**M. L. Rowe, Linda Merryman**



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*Manual on Soil Sampling and Methods of Analysis* Canada Soil Survey Committee. Subcommittee on Methods of Analysis, J. A. McKeague, Soil Research Institute (Canada), 1976

**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

**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 experts contribute detailed sections

*Soil Analysis Handbook of Reference Methods* J. Benton Jones, Jr., 1999-12-20 For more than 30 years soil testing has been widely used as

a basis for determining lime and fertilizer needs Today a number of procedures are used for determining everything from soil pH and lime requirement to the level of extractable nutrient elements And as the number of cropped fields being tested increases more and more farmers and growers will come to rely on soil test results But if soil testing is to be an effective means of evaluating the fertility status of soils standardization of methodology is essential No single test is appropriate for all soils Soil Analysis Handbook of Reference Methods is a standard laboratory technique manual for the most commonly used soil analysis procedures First published in 1974 this Handbook has changed over the years to reflect evolving needs New test methods and modifications have been added as well as new sections on nitrate heavy metals and quality assurance plans for agricultural testing laboratories Compiled by the Soil and Plant Analysis Council this latest edition of Soil Analysis Handbook of Reference Methods also addresses the major methods for managing plant nutrition currently in use in the United States and other parts of the world For soil scientists farmers growers or anyone with an interest in the environment this reference will prove an invaluable guide to standard methods for soil testing well into the future Features Procedures for Collecting Soil Samples and Methods of Analysis for Soil Survey ,1984 **Proceedings of the Annual Convention** Association of Official Agricultural Chemists (U.S.),1891 Livestock and the Environment M. L. Rowe,Linda Merryman,1979 **Publication** British South Africa Company,1930 *EPA-600/2* ,1979 **Bulletin - United States. Bureau of Soils** United States. Bureau of Soils,1902 Proceedings of the American Society of Agronomy American Society of Agronomy,1915 Journal of the Chemical Society ,1901 Proceedings of the International Society of Soil Science International Society of Soil Science,1930 *Fiscal Year 1999 EPA R&D Budget Authorization* United States. Congress. House. Committee on Science. Subcommittee on Energy and Environment,1998

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### **Table of Contents Soil Sampling And Methods Of Analysis**

1. Understanding the eBook Soil Sampling And Methods Of Analysis
  - The Rise of Digital Reading Soil Sampling And Methods Of Analysis
  - Advantages of eBooks Over Traditional Books
2. Identifying Soil Sampling And Methods Of Analysis
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Soil Sampling And Methods Of Analysis
  - User-Friendly Interface
4. Exploring eBook Recommendations from Soil Sampling And Methods Of Analysis
  - Personalized Recommendations
  - Soil Sampling And Methods Of Analysis User Reviews and Ratings
  - Soil Sampling And Methods Of Analysis and Bestseller Lists

5. Accessing Soil Sampling And Methods Of Analysis Free and Paid eBooks
  - Soil Sampling And Methods Of Analysis Public Domain eBooks
  - Soil Sampling And Methods Of Analysis eBook Subscription Services
  - Soil Sampling And Methods Of Analysis Budget-Friendly Options
6. Navigating Soil Sampling And Methods Of Analysis eBook Formats
  - ePub, PDF, MOBI, and More
  - Soil Sampling And Methods Of Analysis Compatibility with Devices
  - Soil Sampling And Methods Of Analysis Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Soil Sampling And Methods Of Analysis
  - Highlighting and Note-Taking Soil Sampling And Methods Of Analysis
  - Interactive Elements Soil Sampling And Methods Of Analysis
8. Staying Engaged with Soil Sampling And Methods Of Analysis
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Soil Sampling And Methods Of Analysis
9. Balancing eBooks and Physical Books Soil Sampling And Methods Of Analysis
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Soil Sampling And Methods Of Analysis
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Soil Sampling And Methods Of Analysis
  - Setting Reading Goals Soil Sampling And Methods Of Analysis
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Soil Sampling And Methods Of Analysis
  - Fact-Checking eBook Content of Soil Sampling And Methods Of Analysis
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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