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Agriculture Soil Sampling and Testing Market Forecasts to 2032 – Global Analysis By Product (Soil Testing and Sampling Services), Sample Type (Surface Soil Samples, Subsurface Soil Samples, Core Samples and Composite Samples), Testing Objective, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Agriculture Soil Sampling and Testing Market is accounted for $4.96 billion in 2025 and is expected to reach $9.45 billion by 2032 growing at a CAGR of 9.65% during the forecast period. An essential procedure for maximizing crop yield and preserving soil health is agricultural soil sampling and testing. To ascertain the nutrient levels, pH balance, organic matter content, and other crucial soil characteristics, soil samples are taken from various locations within a field and examined in a lab. Farmers can use this information to help them make well-informed decisions about crop rotation, irrigation techniques, and fertilizer application. Moreover, growers can increase yields, save input costs, and lessen their environmental impact by knowing the unique requirements of their soil. Because it guarantees soil fertility and productivity over the long term, routine soil testing also promotes sustainable farming.

According to the Department of Agricultural Extension, soil testing is an essential component of soil resource management. It is recommended to collect one soil sample for every 2 hectares of land to ensure accurate representation and effective nutrient management.

Market Dynamics:

Driver:

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Growing interest in precision farming

One of the main forces behind soil testing and sampling is the use of precision agriculture technologies. Farmers are increasingly switching to site-specific nutrient management from uniform input application. Applying fertilizers and amendments at different rates is made possible by soil testing, which offers comprehensive information about the composition and nutrient status of the soil. By cutting waste and making the best use of available resources, this raises crop yields and lowers expenses. Additionally, the need for frequent and precise soil testing services is anticipated to increase dramatically as precision agriculture gains traction worldwide, particularly in developed countries and among large-scale farms.

Restraint:

Expensive testing equipment and services

Soil sampling and testing can be rather costly, especially for smallholder and marginal farmers, despite its advantages. Labor, logistics, and occasionally the requirement for specialized equipment or consulting services are included in the expenses in addition to laboratory fees. Farmers in areas where the government does not subsidize testing might be reluctant to spend money on these services, particularly if their profit margins are already being squeezed by rising input costs or volatile crop prices. Furthermore, the lack of readily available, reasonably priced, and trustworthy testing facilities in developing nations deters widespread adoption. The high upfront and ongoing costs continue to be a major obstacle to the market's growth, particularly in farming communities with limited resources.

Opportunity:

Growth of regenerative and sustainable farming methods

Long-term prospects for soil testing services are presented by the global movement toward regenerative and sustainable farming practices. These methods concentrate on boosting organic matter, enhancing biodiversity, and restoring soil health—all of which call for ongoing soil test monitoring. Demand for routine, scientifically supported soil testing will increase as governments, environmental NGOs, and food companies support regenerative practices through funding and certification programs. Additionally, products grown under verified sustainable conditions are becoming more and more

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popular with premium markets and environmentally conscious consumers, which call for documented soil health data.

Threat:

Adoption reluctance among conventional farmers

The market is seriously threatened by traditional or older-generation farmers' hesitancy or outright opposition, especially in developing countries. Because they frequently follow traditional farming methods, these farmers might not immediately see the advantages of soil testing. Many people, particularly those who have had a bad experience with poorly communicated or delayed findings in the past, think it is a needless expense or doubt the results. Unless there is sufficient education, follow-up support, and localized relevance, soil testing is not widely used, even when government programs offer it for free or at a reduced cost. Growth is hampered by this mindset on a behavioral and cultural level.

Covid-19 Impact:

On the agriculture soil sampling and testing market, the COVID-19 pandemic had a mixed effect. Particularly in developing nations, lockdowns and mobility restrictions during the first few months caused temporary closures of testing laboratories, delayed the collection of soil samples, and interfered with field operations. Equipment and testing reagent shortages were also caused by disruptions in the supply chain. However, the pandemic also made food security and resilient farming methods more important, which sparked a surge in interest in scientific soil management and precision farming. Because of this, during the recovery phase, there was a slow transition to digital, remote, and contactless soil testing solutions. This sped up the adoption of data-driven farm advisory platforms and portable testing kits.

The composite samples segment is expected to be the largest during the forecast period

The composite samples segment is expected to account for the largest market share during the forecast period. The process of composite sampling entails gathering soil samples from various fields and combining them to produce a representative sample. This approach is favored due to its affordability and capacity to offer a comprehensive evaluation of soil health, both of which are essential for farmers seeking to enhance crop yields and soil management techniques. Composite samples provide a

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comprehensive view of pH, nutrient levels, and soil fertility, allowing for more precise fertilizer and irrigation management recommendations. Moreover, composite soil sampling is used extensively in both large-scale and small-scale agricultural operations due to its effectiveness and practicality, which fuels its market dominance.

The nutrient testing segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the nutrient testing segment is predicted to witness the highest growth rate. Analyzing soil samples to find concentrations of vital nutrients like potassium, phosphorus, and nitrogen is known as nutrient testing. With this knowledge, farmers can apply fertilizer more efficiently, increasing crop quality and yield. Additionally, the demand for precise nutrient testing is being fueled by the growing use of precision agriculture, which is being driven by technological advancements and an emphasis on sustainable farming practices. Environmental concerns and regulatory pressure to reduce nutrient runoff are also driving this segment's growth. Nutrient testing is consequently becoming an essential part of contemporary agricultural methods.

Region with largest share:

During the forecast period, the North American region is expected to hold the largest market share. The extensive use of precision agriculture technologies, strict environmental regulations, and a focus on sustainable farming methods are some of the reasons for this dominance. For example, the introduction of the Soil Health Card Scheme in the United States has greatly increased soil testing activities, improving agricultural productivity using scientific methods. Furthermore, the region's need for soil sampling and testing has also been fueled by the existence of both public and private testing labs, research institutes, and Krishi Vigyan Kendras, which have all improved access to testing services.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR. The main cause of this quick expansion is the growing use of cutting-edge agricultural technologies in nations like China and India, where improving agricultural sustainability and productivity is highly valued. The need for soil testing services is further fueled by the region's growing organic farming industry and initiatives to lessen its environmental impact. Additionally, government programs encouraging precision

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farming and raising awareness of soil health are speeding up the adoption of soil sampling and testing tools, making APAC a rapidly expanding market in this field.

Key players in the market

Some of the key players in Agriculture Soil Sampling and Testing Market include 3M Company, Bureau Veritas SA, ALS Limited, Intertek Group PLC, LGC Limited, SGS S.A., TUV Nord Group, Agilent Technologies Inc, Eurofins Scientific, Merck KGaA, AHK Group (Alfred H Knight), Dairyland Laboratories, Gujarat State Fertilizers & Chemicals Limited (GSFC), R J Hill Laboratories Ltd and Agvise Laboratories.

Key Developments:

In March 2025, 3M and Sumitomo Electric Industries, Ltd. announce an assembler agreement enabling Sumitomo Electric to offer variety of optical fiber connectivity products featuring 3M™ Expanded Beam Optical (EBO) Interconnect technology, a high-performance solution to meet scalability needs of next-generation data centers and advanced network architectures.

In October 2024, Eurofins Scientific has reached an agreement with SYNLAB to acquire its clinical diagnostics operations in Spain. SYNLAB’s clinical diagnostics operations in Spain provide clinical diagnostics testing, including genetics and anatomical pathology services, throughout the country, achieving revenues of approximately €140m in 2023.

In July 2024, Agilent Technologies Inc. announced it has signed a definitive agreement to acquire BIOVECTRA, a leading specialized contract development and manufacturing organization, for $925 million. Based in Canada, BIOVECTRA produces biologics, highly potent active pharmaceutical ingredients, and other molecules for targeted therapeutics.

Products Covered:

Soil Testing

Sampling Services

Sample Types Covered:

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Surface Soil Samples

Subsurface Soil Samples

Core Samples

Composite Samples

Testing Objectives Covered:

Nutrient Testing

Moisture Testing

Acidity Test

Pesticides and Contamination Test

Salinity Test

Other Testing Objectives

Applications Covered:

Nutrient Management

pH Adjustment

Soil Health Assessment

End Users Covered:

Crop Insurance Company

Farmers and Growers

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- Agriculture Cooperatives
- Government and Research Institutes
- Agribusiness Company
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China

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India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

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- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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