

Soil Treatment and Fertility Market Forecasts to 2032 - Global Analysis By Type (Soil Fertility Products, Soil Treatment Solutions, pH Modifiers & Balancers, Amendment Materials, and Other Types), Technology, Formulation, Crop Type, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Soil Treatment and Fertility Market is accounted for \$28.88 billion in 2025 and is expected to reach \$44.01 billion by 2032 growing at a CAGR of 6.2% during the forecast period. Soil fertility management involves methods and practices designed to boost the soil's quality and nutrient content, ensuring optimal conditions for plant growth. This encompasses the use of chemical fertilizers, organic matter, biofertilizers, and soil enhancers, along with strategies like crop rotation, mulching, and efficient water management. Proper soil treatment maintains nutrient balance, prevents soil deterioration, stimulates beneficial microbial activity, and enhances crop productivity, contributing to sustainable farming and the preservation of long-term soil vitality.

Market Dynamics:

Driver:

Adoption of precision agriculture

Farmers are increasingly leveraging GPS-guided equipment, drones, and sensor-based technologies to optimize soil health and nutrient application. These innovations allow for site-specific management, reducing waste and enhancing crop yields. As global food

demand rises, precision farming is becoming essential to maximize productivity on limited arable land. The adoption of data-driven tools is also improving sustainability by minimizing chemical overuse and protecting ecosystems. Governments and agricultural agencies are promoting precision agriculture through subsidies and training programs. Collectively, these advancements are accelerating the demand for soil treatment solutions across both developed and emerging economies.

Restraint:

Lack of awareness and technical knowledge

Many small-scale farmers lack access to training programs that explain the benefits of modern soil treatment methods. The complexity of digital tools and diagnostic systems often discourages adoption in rural regions. High upfront costs and uncertainty about return on investment further slow down implementation. In developing countries, limited extension services and poor infrastructure exacerbate the knowledge gap. Without proper education, farmers continue relying on traditional practices that compromise soil fertility. This lack of awareness and technical skill restrains the pace of modernization in the soil treatment market.

Opportunity:

Digital soil diagnostics

Advanced sensors and AI-driven platforms now enable real-time monitoring of soil composition, moisture, and nutrient levels. These tools empower farmers to make precise decisions about fertilizer application and crop rotation. The integration of cloud-based analytics is improving predictive modeling for long-term soil health. Affordable handheld devices are expanding accessibility to smallholder farmers in developing regions. Digital diagnostics also support sustainability goals by reducing chemical misuse and enhancing resource efficiency. As adoption spreads, this opportunity is expected to unlock new growth avenues for soil treatment providers worldwide.

Threat:

Price volatility of raw materials

Fertilizers and chemical inputs are highly sensitive to global commodity cycles and energy costs. Sudden spikes in raw material prices increase production expenses,

squeezing profit margins for manufacturers. Farmers often delay purchases or reduce application rates during periods of volatility. This unpredictability disrupts supply chains and creates uncertainty in long-term planning. Emerging markets are particularly vulnerable, as they rely heavily on imports for agricultural inputs.

Covid-19 Impact:

The pandemic disrupted agricultural supply chains, creating shortages in fertilizers and soil treatment products. Lockdowns restricted transportation and delayed distribution, leaving farmers unable to access essential inputs. However, the crisis accelerated digital adoption, with farmers turning to online platforms for soil diagnostics and advisory services. Governments introduced emergency measures to stabilize input availability and support food security. The pandemic also highlighted the importance of resilient and localized production systems. Post-Covid strategies now emphasize automation, decentralized manufacturing, and digital extension services. Overall, the crisis reshaped the soil treatment market, pushing it toward greater innovation and resilience.

The chemical treatment segment is expected to be the largest during the forecast period

The chemical treatment segment is expected to account for the largest market share during the forecast period, due to its widespread use in enhancing nutrient availability and combating soil-borne pathogens drives strong demand. Farmers rely on chemical solutions for quick and effective results across diverse crop types. Innovations in eco-friendly formulations are improving safety and reducing environmental impact. Rising global food production needs are further reinforcing the importance of chemical treatments. Continuous R&D is introducing advanced blends tailored for specific soil conditions.

The research & academic institutions segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the research & academic institutions segment is predicted to witness the highest growth rate, due to their role in developing innovative soil fertility solutions is expanding rapidly. Universities and research centers are investing in advanced diagnostic tools and sustainable treatment methods. Collaborative projects with governments and private firms are accelerating technology transfer. Increased funding for agricultural R&D is fostering breakthroughs in bio-based and digital solutions. Academic institutions also play a critical role in farmer training and awareness programs.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, due to the region benefits from advanced farming infrastructure and widespread adoption of precision agriculture. Strong government support and subsidies encourage sustainable soil management practices. Leading companies are headquartered in the U.S., driving innovation and commercialization. Farmers in the region are early adopters of digital diagnostics and advanced fertilizers. The presence of robust distribution networks ensures consistent availability of soil treatment products.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, owing to rapid population growth and rising food demand are intensifying pressure on agricultural productivity. Countries like China, India, and Southeast Asian nations are investing heavily in modern farming techniques. Government initiatives promoting sustainable agriculture are accelerating adoption of soil treatment solutions. Expanding rural digitization is enabling farmers to access diagnostic tools and advisory services. Local manufacturers are also scaling up production to meet regional demand.

Key players in the market

Some of the key players in Soil Treatment and Fertility Market include BASF SE, Haifa Group, Bayer AG, Solvay S.A., Syngenta, FMC Corp, UPL Limited, ICL Group, Corteva Inc, K+S AG, Nutrien Ltd, American, The Mosaic Company, Coromandel International, and Yara International.

Key Developments:

In October 2025, Syngenta and SALIC Signs Agreement to Explore Joint Agriculture Projects that Enhance Food Security in Saudi Arabia and Around the World. This collaboration with Syngenta reflects SALIC's commitment to innovation, sustainability, and global partnerships. Together, we aim to help transform agriculture by integrating technology, knowledge, and responsible practices empowering farmers, conserving resources, and building resilient food systems that strengthen Saudi Arabia's food security and support future generations worldwide.

In August 2025, The Chemours Company, DuPont de Nemours, Inc., and Corteva, Inc.

announced a settlement to comprehensively resolve all pending environmental and other claims by the State of New Jersey against the Companies in various litigation matters and other state directives. The Settlement will resolve all legacy contamination claims related to the companies' current and former operating sites (Chambers Works, Parlin, Pompton Lakes and Repauno) and claims of statewide PFAS contamination unrelated to those sites, including from the use of aqueous film forming foam.

Types Covered:

Soil Fertility Products

Soil Treatment Solutions

pH Modifiers & Balancers

Amendment Materials

Other Types

Technologies Covered:

Biological Treatment

Chemical Treatment

Physical Treatment

Integrated Solutions

Advanced Soil Technologies

Formulations Covered:

Liquid Formulations

Granular / Powder

Tablet / Pellets

Slow/Controlled Release

Bio-based Formulations

Crop Types Covered:

Cereals & Grains

Fruits & Vegetables

Oilseeds & Pulses

Plantation Crops

Turf & Ornamental Plants

Other Crop Types

Applications Covered:

Soil Fertility Improvement

Soil Protection & Erosion Control

Weed Control

Pest Management

Soil Remediation

Land Reclamation

Precision Agriculture Applications

End Users Covered:

Agricultural Sector

Horticulture & Nurseries

Lawn & Garden Care

Landscaping & Turf

Forestry

Research & Academic Institutions

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

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)
- 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

Contents

1 EXECUTIVE SUMMARY

2 PREFACE

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
 - 2.4.1 Data Mining
 - 2.4.2 Data Analysis
 - 2.4.3 Data Validation
 - 2.4.4 Research Approach
- 2.5 Research Sources
 - 2.5.1 Primary Research Sources
 - 2.5.2 Secondary Research Sources
 - 2.5.3 Assumptions

3 MARKET TREND ANALYSIS

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Technology Analysis
- 3.7 Application Analysis
- 3.8 Emerging Markets
- 3.9 Impact of Covid-19

4 PORTERS FIVE FORCE ANALYSIS

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

5 GLOBAL SOIL TREATMENT AND FERTILITY MARKET, BY TYPE

- 5.1 Introduction
- 5.2 Soil Fertility Products
 - 5.2.1 Organic Fertilizers
 - 5.2.2 Inorganic Fertilizers
 - 5.2.3 Soil Conditioners
 - 5.2.4 Micronutrients
 - 5.2.5 Fertilizer Additives
- 5.3 Soil Treatment Solutions
 - 5.3.1 Organic Amendments
 - 5.3.2 pH Adjusters
 - 5.3.3 Soil Protection Products
 - 5.3.4 Biofertilizers
- 5.4 pH Modifiers & Balancers
- 5.5 Amendment Materials
- 5.6 Other Types

6 GLOBAL SOIL TREATMENT AND FERTILITY MARKET, BY TECHNOLOGY

- 6.1 Introduction
- 6.2 Biological Treatment
- 6.3 Chemical Treatment
- 6.4 Physical Treatment
- 6.5 Integrated Solutions
- 6.6 Advanced Soil Technologies

7 GLOBAL SOIL TREATMENT AND FERTILITY MARKET, BY FORMULATION

- 7.1 Introduction
- 7.2 Liquid Formulations
- 7.3 Granular / Powder
- 7.4 Tablet / Pellets
- 7.5 Slow/Controlled Release
- 7.6 Bio-based Formulations

8 GLOBAL SOIL TREATMENT AND FERTILITY MARKET, BY CROP TYPE

- 8.1 Introduction

- 8.2 Cereals & Grains
- 8.3 Fruits & Vegetables
- 8.4 Oilseeds & Pulses
- 8.5 Plantation Crops
- 8.6 Turf & Ornamental Plants
- 8.7 Other Crop Types

9 GLOBAL SOIL TREATMENT AND FERTILITY MARKET, BY APPLICATION

- 9.1 Introduction
- 9.2 Soil Fertility Improvement
- 9.3 Soil Protection & Erosion Control
- 9.4 Weed Control
- 9.5 Pest Management
- 9.6 Soil Remediation
- 9.7 Land Reclamation
- 9.8 Precision Agriculture Applications

10 GLOBAL SOIL TREATMENT AND FERTILITY MARKET, BY END USER

- 10.1 Introduction
- 10.2 Agricultural Sector
- 10.3 Horticulture & Nurseries
- 10.4 Lawn & Garden Care
- 10.5 Landscaping & Turf
- 10.6 Forestry
- 10.7 Research & Academic Institutions
- 10.8 Other End Users

11 GLOBAL SOIL TREATMENT AND FERTILITY MARKET, BY GEOGRAPHY

- 11.1 Introduction
- 11.2 North America
 - 11.2.1 US
 - 11.2.2 Canada
 - 11.2.3 Mexico
- 11.3 Europe
 - 11.3.1 Germany
 - 11.3.2 UK

- 11.3.3 Italy
- 11.3.4 France
- 11.3.5 Spain
- 11.3.6 Rest of Europe
- 11.4 Asia Pacific
 - 11.4.1 Japan
 - 11.4.2 China
 - 11.4.3 India
 - 11.4.4 Australia
 - 11.4.5 New Zealand
 - 11.4.6 South Korea
 - 11.4.7 Rest of Asia Pacific
- 11.5 South America
 - 11.5.1 Argentina
 - 11.5.2 Brazil
 - 11.5.3 Chile
 - 11.5.4 Rest of South America
- 11.6 Middle East & Africa
 - 11.6.1 Saudi Arabia
 - 11.6.2 UAE
 - 11.6.3 Qatar
 - 11.6.4 South Africa
 - 11.6.5 Rest of Middle East & Africa

12 KEY DEVELOPMENTS

- 12.1 Agreements, Partnerships, Collaborations and Joint Ventures
- 12.2 Acquisitions & Mergers
- 12.3 New Product Launch
- 12.4 Expansions
- 12.5 Other Key Strategies

13 COMPANY PROFILING

- 13.1 BASF SE
- 13.2 Haifa Group
- 13.3 Bayer AG
- 13.4 Solvay S.A.
- 13.5 Syngenta AG

- 13.6 FMC Corporation
- 13.7 UPL Limited
- 13.8 ICL Group Ltd.
- 13.9 Corteva Inc.
- 13.10 K+S AG
- 13.11 Nutrien Ltd.
- 13.12 American Vanguard Corporation
- 13.13 The Mosaic Company
- 13.14 Coromandel International Limited
- 13.15 Yara International ASA

List Of Tables

LIST OF TABLES

Table 1 Global Soil Treatment and Fertility Market Outlook, By Region (2024-2032) (\$MN)

Table 2 Global Soil Treatment and Fertility Market Outlook, By Type (2024-2032) (\$MN)

Table 3 Global Soil Treatment and Fertility Market Outlook, By Soil Fertility Products (2024-2032) (\$MN)

Table 4 Global Soil Treatment and Fertility Market Outlook, By Organic Fertilizers (2024-2032) (\$MN)

Table 5 Global Soil Treatment and Fertility Market Outlook, By Inorganic Fertilizers (2024-2032) (\$MN)

Table 6 Global Soil Treatment and Fertility Market Outlook, By Soil Conditioners (2024-2032) (\$MN)

Table 7 Global Soil Treatment and Fertility Market Outlook, By Micronutrients (2024-2032) (\$MN)

Table 8 Global Soil Treatment and Fertility Market Outlook, By Fertilizer Additives (2024-2032) (\$MN)

Table 9 Global Soil Treatment and Fertility Market Outlook, By Soil Treatment Solutions (2024-2032) (\$MN)

Table 10 Global Soil Treatment and Fertility Market Outlook, By Organic Amendments (2024-2032) (\$MN)

Table 11 Global Soil Treatment and Fertility Market Outlook, By pH Adjusters (2024-2032) (\$MN)

Table 12 Global Soil Treatment and Fertility Market Outlook, By Soil Protection Products (2024-2032) (\$MN)

Table 13 Global Soil Treatment and Fertility Market Outlook, By Biofertilizers (2024-2032) (\$MN)

Table 14 Global Soil Treatment and Fertility Market Outlook, By pH Modifiers & Balancers (2024-2032) (\$MN)

Table 15 Global Soil Treatment and Fertility Market Outlook, By Amendment Materials (2024-2032) (\$MN)

Table 16 Global Soil Treatment and Fertility Market Outlook, By Other Types (2024-2032) (\$MN)

Table 17 Global Soil Treatment and Fertility Market Outlook, By Technology (2024-2032) (\$MN)

Table 18 Global Soil Treatment and Fertility Market Outlook, By Biological Treatment (2024-2032) (\$MN)

Table 19 Global Soil Treatment and Fertility Market Outlook, By Chemical Treatment (2024-2032) (\$MN)

Table 20 Global Soil Treatment and Fertility Market Outlook, By Physical Treatment (2024-2032) (\$MN)

Table 21 Global Soil Treatment and Fertility Market Outlook, By Integrated Solutions (2024-2032) (\$MN)

Table 22 Global Soil Treatment and Fertility Market Outlook, By Advanced Soil Technologies (2024-2032) (\$MN)

Table 23 Global Soil Treatment and Fertility Market Outlook, By Formulation (2024-2032) (\$MN)

Table 24 Global Soil Treatment and Fertility Market Outlook, By Liquid Formulations (2024-2032) (\$MN)

Table 25 Global Soil Treatment and Fertility Market Outlook, By Granular / Powder (2024-2032) (\$MN)

Table 26 Global Soil Treatment and Fertility Market Outlook, By Tablet / Pellets (2024-2032) (\$MN)

Table 27 Global Soil Treatment and Fertility Market Outlook, By Slow/Controlled Release (2024-2032) (\$MN)

Table 28 Global Soil Treatment and Fertility Market Outlook, By Bio-based Formulations (2024-2032) (\$MN)

Table 29 Global Soil Treatment and Fertility Market Outlook, By Crop Type (2024-2032) (\$MN)

Table 30 Global Soil Treatment and Fertility Market Outlook, By Cereals & Grains (2024-2032) (\$MN)

Table 31 Global Soil Treatment and Fertility Market Outlook, By Fruits & Vegetables (2024-2032) (\$MN)

Table 32 Global Soil Treatment and Fertility Market Outlook, By Oilseeds & Pulses (2024-2032) (\$MN)

Table 33 Global Soil Treatment and Fertility Market Outlook, By Plantation Crops (2024-2032) (\$MN)

Table 34 Global Soil Treatment and Fertility Market Outlook, By Turf & Ornamental Plants (2024-2032) (\$MN)

Table 35 Global Soil Treatment and Fertility Market Outlook, By Other Crop Types (2024-2032) (\$MN)

Table 36 Global Soil Treatment and Fertility Market Outlook, By Application (2024-2032) (\$MN)

Table 37 Global Soil Treatment and Fertility Market Outlook, By Soil Fertility Improvement (2024-2032) (\$MN)

Table 38 Global Soil Treatment and Fertility Market Outlook, By Soil Protection &

Erosion Control (2024-2032) (\$MN)

Table 39 Global Soil Treatment and Fertility Market Outlook, By Weed Control (2024-2032) (\$MN)

Table 40 Global Soil Treatment and Fertility Market Outlook, By Pest Management (2024-2032) (\$MN)

Table 41 Global Soil Treatment and Fertility Market Outlook, By Soil Remediation (2024-2032) (\$MN)

Table 42 Global Soil Treatment and Fertility Market Outlook, By Land Reclamation (2024-2032) (\$MN)

Table 43 Global Soil Treatment and Fertility Market Outlook, By Precision Agriculture Applications (2024-2032) (\$MN)

Table 44 Global Soil Treatment and Fertility Market Outlook, By End User (2024-2032) (\$MN)

Table 45 Global Soil Treatment and Fertility Market Outlook, By Agricultural Sector (2024-2032) (\$MN)

Table 46 Global Soil Treatment and Fertility Market Outlook, By Horticulture & Nurseries (2024-2032) (\$MN)

Table 47 Global Soil Treatment and Fertility Market Outlook, By Lawn & Garden Care (2024-2032) (\$MN)

Table 48 Global Soil Treatment and Fertility Market Outlook, By Landscaping & Turf (2024-2032) (\$MN)

Table 49 Global Soil Treatment and Fertility Market Outlook, By Forestry (2024-2032) (\$MN)

Table 50 Global Soil Treatment and Fertility Market Outlook, By Research & Academic Institutions (2024-2032) (\$MN)

Table 51 Global Soil Treatment and Fertility Market Outlook, By Other End Users (2024-2032) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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