

Soil Amendments Market Outlook 2025-2034: Market Share, and Growth Analysis By Soil Type (Clay, Sand, Loam, Silt), By Crop Type (Cereals And Grains, Oilseeds And Pulses, Fruits And vegetables, Other Crop Types), By Product, By Form, By Application

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Abstracts

The Soil Amendments Market is valued at USD 6.3 billion in 2025 and is projected to grow at a CAGR of 10.6% to reach USD 15.6 billion by 2034. The soil amendments market plays a critical role in global efforts to improve soil health, increase agricultural productivity, and promote sustainable land use. Soil amendments—ranging from organic compost, biochar, and gypsum to synthetic conditioners—are used to enhance soil structure, fertility, water retention, and nutrient availability. As concerns over soil degradation, erosion, and declining organic matter intensify, both commercial farmers and smallholders are seeking alternatives that restore the long-term viability of their land. The market benefits from rising interest in regenerative agriculture, organic farming, and sustainable crop intensification practices, where soil amendments offer non-chemical solutions to revitalize degraded soils. With global food demand growing and arable land under pressure, improving soil functionality has become a cornerstone of modern agricultural strategies. Technological advancements, better farmer education, and supportive policies are helping drive awareness and adoption. Overall, the soil amendments market is being reshaped by environmental stewardship goals, innovation in natural inputs, and a renewed focus on soil as a living system that underpins food security and climate resilience. The soil amendments market witnessed an uptick in adoption across multiple geographies as farmers faced increasing pressure to maintain yields amid erratic climate patterns and soil fatigue. Organic and natural amendments such as compost, vermicompost, and biochar gained popularity in both developed and emerging regions due to their ability to improve water-holding capacity and microbial activity. A notable development was the integration of soil testing technologies with

digital platforms, enabling farmers to identify specific deficiencies and select appropriate amendments with greater precision. This trend was especially strong in North America and Europe, where precision agriculture practices are widely adopted. Meanwhile, manufacturers focused on innovation, introducing microbial and enzyme-based formulations that promote biological activity in the soil. Government-supported initiatives promoting regenerative practices also played a crucial role, particularly in regions affected by drought and salinity. Additionally, the landscaping and turf management sectors began using soil amendments more frequently, reflecting a broader societal shift toward sustainable green space management. As a result, 2024 positioned soil amendments not just as inputs, but as essential tools in soil health strategies for both food and non-food applications. The soil amendments market is expected to expand rapidly as global agricultural policies increasingly prioritize soil restoration and carbon sequestration. With carbon markets beginning to reward soil organic carbon improvements, amendments such as biochar, compost, and green manure will likely become central to climate-smart farming programs. Continued advancements in biological amendments—such as microbial consortia and fungi-based inputs—will further support the development of living soils, enhancing plant nutrient uptake and disease resistance. The integration of AI and remote sensing will make amendment application more site-specific and efficient, reducing waste and maximizing effectiveness. Meanwhile, emerging economies in Asia, Africa, and Latin America are anticipated to offer strong growth potential, driven by government programs focused on food security and sustainable land use. Consumers' growing preference for sustainably grown produce will also encourage commercial growers to invest in soil enhancement practices. In this evolving landscape, soil amendments will shift from being optional to essential, aligning with environmental, economic, and nutritional priorities across the agricultural value chain.

Key Insights Soil Amendments Market

Biochar and compost are gaining traction as dual-purpose amendments that improve soil health while also contributing to carbon sequestration and climate mitigation strategies.

Integration of digital soil testing tools is allowing for targeted amendment applications, optimizing inputs based on real-time soil data and improving input cost-efficiency for farmers.

Microbial and biological soil amendments are on the rise, driven by demand for regenerative and organic farming practices that support soil biodiversity and

nutrient cycling.

Increased use of amendments in urban landscaping and turf management reflects a growing awareness of sustainable land care practices beyond traditional agriculture.

Governments are embedding soil health incentives in agricultural subsidies, promoting the adoption of amendments as a means to improve productivity and environmental outcomes.

Declining soil quality and fertility due to overuse, erosion, and chemical input dependency are prompting farmers to adopt amendments that restore long-term soil functionality.

Growing demand for organic produce and sustainable agriculture practices is encouraging wider use of natural amendments in certified and transition-to-organic farms.

Supportive policy frameworks and global initiatives focused on soil health and carbon farming are accelerating the use of soil amendments across regions.

Climate change and water scarcity are increasing the need for soil solutions that enhance water retention and improve drought resilience in crops.

Lack of standardized quality and efficacy benchmarks for soil amendments creates uncertainty for farmers, limiting adoption and making it difficult to compare products across regions and suppliers.

Soil Amendments Market Segmentation

By Soil Type

Clay

Sand

Loam

Silt

By Crop Type

Cereals And Grains

Oilseeds And Pulses

Fruits And vegetables

Other Crop Types

By Product

Organic

Inorganic

By Form

Dry

Liquid

By Application

Construction And Mining

Agriculture And Gardening

Other Applications

Key Companies Analysed

BASF SE

UPL Limited

FMC Corporation

Adama Agricultural Solutions Ltd.

Bayer AG

Novozymes A/S

Lallemand Inc.

T Stanes & Company

Evonik Industries AG

Nufarm Ltd.

DOW Inc.

Greenfield Eco Solutions Pvt. Ltd.

Gujarat State Fertilizers and Chemicals Limited

Oro Agri Europe S.A

Compagnie de Saint-Gobain S.A.

SANOWAY GmbH

Eastman Chemical Company

Vantage Specialty Chemicals Inc.

Clariant International Ltd.

Croda International plc

Solvay S.A.

Syngenta AG

ADEKA CORPORATION

Akzo Nobel N.V.

BioWorks Inc.

Biochar Now LLC

Bio Soil Enhancers Inc.

Black Diamond Vermicompost

Blue Planet Environmental Solutions Pte. Ltd.

Carbon Gold Ltd.

Earth Science Laboratories Inc.

Soil Amendments Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Soil Amendments Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Soil Amendments market data and outlook to 2034

United States

Canada

Mexico

Europe — Soil Amendments market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Soil Amendments market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Soil Amendments market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Soil Amendments market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Soil Amendments value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Soil Amendments industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Soil Amendments Market Report

Global Soil Amendments market size and growth projections (CAGR),
2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Soil Amendments trade, costs, and supply chains

Soil Amendments market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Soil Amendments market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Soil Amendments market trends, drivers, restraints, and opportunities

Porter's Five Forces analysis, technological developments, and Soil Amendments supply chain analysis

Soil Amendments trade analysis, Soil Amendments market price analysis, and Soil Amendments supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Soil Amendments market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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