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Green Manure Market Forecasts to 2030 – Global Analysis By Type (Leguminous Green Manure and Non-Leguminous Green Manure), Crop Type, Soil Type, Distribution Channel, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global Green Manure Market is accounted for $4.25 billion in 2024 and is expected to reach $6.84 billion by 2030 growing at a CAGR of 8.9% during the forecast period. Green manure refers to plants that are grown primarily to improve soil fertility and structure. These plants, often legumes like clover or vetch, are cultivated and then plowed into the soil while still green, enriching it with organic matter. As they decompose, they release nutrients such as nitrogen, phosphorus, and potassium, which enhance soil health. Green manure helps prevent soil erosion, suppress weeds, and improve water retention, making it a sustainable farming practice.

According to a report by the Federal Ministry of Agriculture, a cabinet-level ministry of the Federal Republic of Germany, 38% of respondents said they would buy organic products frequently (33%) or exclusively (5%) in 2021.

Market Dynamics:

Driver:

Increasing preference for organic products

As consumers become more health-conscious and environmentally aware, the demand for organic produce rises, prompting farmers to adopt organic farming methods. Green manure, a natural alternative to chemical fertilizers, enhances soil fertility without

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synthetic inputs, making it ideal for organic agriculture. The need to maintain healthy, fertile soils without harming the environment encourages the widespread use of green manure. This shift towards organic farming supports the market's expansion as more farmers seek eco-friendly solutions.

Restraint:

Lack of proper training and knowledge

The lack of proper training and knowledge in green manure arises from limited access to educational resources, outdated farming practices, and insufficient awareness among farmers. Many agricultural workers are unfamiliar with the benefits and techniques of using green manure for soil fertility. This knowledge gap hampers market growth by preventing widespread adoption and reducing the efficiency of green manure practices.

Opportunity:

Mounting government initiatives and support

Governments worldwide, particularly in regions like Asia Pacific and North America, are offering subsidies, grants, and incentives to encourage farmers to adopt eco-friendly alternatives to synthetic fertilizers. Policies focusing on soil health improvement, organic farming, and environmental conservation boost the demand for green manure. Such initiatives help farmers overcome initial adoption challenges, making green manure an increasingly viable and expand its market demand.

Threat:

Competition from synthetic fertilizers

Synthetic fertilizers offer immediate nutrient availability, which makes them a preferred choice for many farmers seeking fast and efficient solutions. In contrast, green manure requires more time to grow and decompose, making it less attractive for farmers with urgent crop demands. Additionally, synthetic fertilizers are widely accessible, well-established, and often subsidized, further discouraging farmers from adopting green manure as a long-term soil fertility solution. This aspect thereby hinders the market growth.

Covid-19 Impact

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The covid-19 pandemic impacted the green manure market by disrupting supply chains, labor shortages, and reduced availability of raw materials for organic farming inputs. However, the crisis also heightened awareness of the importance of sustainable and organic farming practices, leading to a gradual shift towards eco-friendly solutions. Government's focus on food security and sustainable agriculture during the pandemic stimulated the interest in green manure. Despite challenges, the market saw growing demand for natural soil fertility management solutions post-pandemic.

The leguminous green manure segment is expected to be the largest during the forecast period

The leguminous green manure segment is predicted to secure the largest market share throughout the forecast period. Leguminous green manure refers to crops like clover, vetch, and alfalfa, which are grown specifically to improve soil fertility. These plants are rich in nitrogen-fixing bacteria that convert atmospheric nitrogen into a form accessible to plants. It also adds organic matter, improves soil structure, and supports beneficial microbial activity, making it an essential practice for sustainable and organic farming systems.

The soil fertility improvement segment is expected to have the highest CAGR during the forecast period

The soil fertility improvement segment is anticipated to witness the highest CAGR during the forecast period. Green manure plays a crucial role in improving soil fertility by adding organic matter to the soil. When plowed under, green manure crops, often legumes, enhance soil structure, increase nutrient content, and improve moisture retention. This natural process boosts microbial activity, prevents soil erosion, and increases soil's ability to retain water, contributing to healthier, more productive soils for future crop growth.

Region with largest share:

Asia Pacific is expected to register the largest market share during the forecast period due to rising adoption of sustainable farming practices and increasing demand for organic farming. The region's key players include companies like Gujarat State Fertilizers & Chemicals Ltd., IFFCO, and Yara International. The market growth is driven by the vast agricultural industries in countries such as India, China, and Japan, where there is a growing emphasis on organic farming and a commitment to sustainable

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soil fertility enhancement.

Region with highest CAGR:

North America is expected to witness the highest CAGR over the forecast period fuelled by increasing demand for organic farming and sustainable agricultural practices. Key players in the region include companies like Corteva Agriscience, Dow AgroSciences, and BASF. The market is witnessing strong growth, especially in the U.S. and Canada, where sustainable farming practices are gaining momentum. Further, rising government incentives for organic farming and rising awareness of soil health is accelerating the market growth.

Key players in the market

Some of the key players profiled in the Green Manure Market include BASF SE, Corteva Agriscience, Yara International, Syngenta, FMC Corporation, Sumitomo Chemical, Solvay SA, Nufarm, Greenbelt Resources Corporation, Grow More Inc., UPL Limited, NutriAg Limited, ICL Group, K+S AG, Haifa Group, OCP Group, Koch Industries, Mosaic Company, Biolchim S.p.A. and AgroLiquid.

Key Developments:

In October 2024, Yara launched its first green ammonia-based fertilizer. This move aligns with growing global demand for sustainable agricultural inputs and environmentally-friendly practices, which is increasingly important to consumers, businesses, and governments focused on climate change mitigation.

In August 2024, BASF launched a new Spray Timer Tool designed to help farmers optimize fungicide applications and improve crop protection management. This innovative tool, which is part of BASF’s broader efforts to promote precision agriculture, aims to enhance the effectiveness of fungicide treatments by ensuring they are applied at the optimal time.

Types Covered:

- Leguminous Green Manure
- Non-Leguminous Green Manure

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Crop Types Covered:

- Cereals
- Oilseeds
- Pulses
- Fruits & Vegetables
- Other Crop Types

Soil Types Covered:

- Loamy Soil
- Sandy Soil
- Clay Soil
- Silt Soil
- Other Soil Types

Distribution Channels Covered:

- Direct Sales
- Agro-dealers
- Online Retail
- Other Distribution Channels

Applications Covered:

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- Soil Fertility Improvement
- Nitrogen Fixation
- Weed Suppression
- Erosion Control
- Soil Structure Improvement
- Carbon Sequestration
- Other Applications

End Users Covered:

- Farmers
- Agribusiness Companies
- Research Institutes
- Other End Users

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany

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- 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

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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 2022, 2023, 2024, 2026, and 2030
- 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)

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Competitive Benchmarking

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

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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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