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AgroScience Market Forecasts to 2032 – Global Analysis By Product Type (Genetically Modified (GM) Seeds, Biopesticides, Biostimulants, Fertilizers and Crop Protection Chemicals), Production Method, Distribution Channel, Application, End User and By Geography

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Abstracts

According to Stratistics MRC, the Global AgroScience Market is accounted for $44.20 billion in 2025 and is expected to reach $72.39 billion by 2032 growing at a CAGR of 7.3% during the forecast period. AgroScience encompasses the scientific study of agriculture by combining principles from biology, chemistry, ecology, and technology to boost crop yields, maintain soil quality, and encourage sustainable farming. It examines plant growth, nutrient cycles, and pest control while creating innovative strategies to satisfy growing global food requirements. Utilizing advanced methods like precision agriculture, genetic modification, and biofertilizers, AgroScience seeks to increase efficiency while reducing ecological harm. Research in this area tackles critical issues including climate change, water shortages, and soil erosion. In essence, AgroScience is essential for food security, environmentally responsible farming, and the socio-economic advancement of rural communities around the world.

According to the Indian Council of Agricultural Research (ICAR), ICAR has developed genome-edited rice varieties that can increase yields by 20–30%, reduce water usage by 30%, and cut greenhouse gas emissions by 20%.

Market Dynamics:

Driver:

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Increasing global food demand

The growth of the AgroScience market is largely fueled by escalating global food needs caused by population increase, urban growth, and evolving dietary habits. With more mouths to feed, there is an urgent requirement to boost crop productivity and farm efficiency. Farmers are increasingly using modern agro-science solutions such as precision agriculture, genetic crop enhancement, and organic biofertilizers to achieve better output and quality. Governments and private organizations are investing heavily in R&D to support food security goals. This continuous demand for high-yield, sustainable agriculture technologies act as a key factor driving the expansion of the AgroScience market.

Restraint:

High cost of advanced technologies

A major challenge in the AgroScience market is the high expense of modern agricultural technologies. Tools such as precision farming equipment, drones, automated machinery, and genetically engineered seeds involve substantial investment, often beyond the reach of small-scale farmers. Moreover, the development of new agro-scientific innovations requires considerable R&D expenditure, limiting availability in less developed regions. Continuous operational and maintenance costs also deter many farmers from adopting these solutions. Consequently, despite their potential to boost efficiency and crop yields, the significant financial burden associated with advanced technologies acts as a key restraint, hindering the broader adoption of AgroScience solutions in economically constrained farming communities.

Opportunity:

Adoption of precision farming techniques

The AgroScience market stands to benefit greatly from the rising adoption of precision farming methods. By employing technologies like GPS, drones, IoT-based sensors, and advanced analytics, farmers can monitor soil health, irrigation, and crop growth, leading to more efficient resource utilization and higher yields. Informed decisions regarding fertilization, pest management, and harvest timing contribute to cost reduction and productivity improvements. As sustainable agriculture gains importance, precision farming is increasingly embraced by the farming community. This trend offers significant

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opportunities for agro-science firms to develop innovative solutions, broaden their product portfolios, and enhance their presence in global markets, driving the growth of the AgroScience sector.

Threat:

Climate change and environmental risks

Environmental risks and climate change are major threats to the AgroScience market. Fluctuating weather, rising temperatures, droughts, floods, and soil degradation can negatively impact crop production and reduce the efficiency of agro-scientific technologies. Farmers may face higher costs to implement irrigation systems, climate-resilient crops, and advanced pest control measures. Extreme weather events can also disrupt logistics and delay delivery of agricultural products and inputs. Moreover, inconsistencies in climate conditions challenge the effectiveness of precision farming, biofertilizers, and other modern solutions. These climate-related uncertainties can impede market expansion, creating operational and financial risks for agro-science companies and affecting the overall stability of the agricultural sector.

Covid-19 Impact:

The COVID-19 outbreak had a major impact on the AgroScience market by disrupting supply chains, restricting workforce availability, and affecting international trade. Lockdowns and travel limitations caused delays in the production and delivery of seeds, fertilizers, biofertilizers, and advanced farming equipment, lowering agricultural output in many regions. Companies experienced operational challenges related to logistics, manufacturing, and sourcing of raw materials, leading to higher costs. Economic uncertainty also slowed investment and adoption of modern agro-scientific solutions. On the positive side, the pandemic highlighted the need for resilient and sustainable agriculture, driving interest in digital farming, automation, and innovative technologies to maintain productivity and safeguard global food security.

The fertilizers segment is expected to be the largest during the forecast period

The fertilizers segment is expected to account for the largest market share during the forecast period due to their essential role in improving crop yield and maintaining soil health. Both chemical and organic fertilizers are widely utilized by farmers worldwide to satisfy growing food demand and replenish soil nutrients. Their extensive adoption in diverse farming systems, along with government programs encouraging increased

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agricultural productivity, strengthens their leading market position. Ongoing innovations and developments in nutrient formulations, including biofertilizers, further enhance their importance. In essence, fertilizers are a cornerstone of modern agriculture, supporting sustainable farming practices and significantly contributing to the overall expansion and growth of the global AgroScience market.

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

Over the forecast period, the hydroponics segment is predicted to witness the highest growth rate, driven by the adoption of soil-less cultivation and efficient farming practices. By growing plants in nutrient-enriched water under controlled conditions, hydroponics maximizes crop growth while minimizing water and land requirements. This approach is particularly beneficial in urban environments and areas with scarce arable land, enabling higher productivity and continuous harvests. Rising consumer preference for fresh, pesticide-free produce and technological advancements in hydroponic systems are accelerating market growth. The efficiency, sustainability, and adaptability of hydroponics position it as a high-growth segment, rapidly gaining traction and contributing significantly to the global AgroScience market's development.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, owing to its extensive agricultural activities, rising population, and growing food requirements. Key countries such as India, China, and Japan are heavily investing in modern agricultural technologies, fertilizers, and crop protection products to boost crop yields and maintain food security. The region's numerous small and medium-sized farms, along with supportive government policies promoting sustainable and technology-driven farming practices, contribute to its leading market position. Increased awareness and adoption of precision agriculture, biofertilizers, and advanced crop management solutions further enhance the region's dominance, making Asia-Pacific the primary hub for AgroScience innovations and market growth globally.

Region with highest CAGR:

Over the forecast period, the South America region is anticipated to exhibit the highest CAGR due to increased investments in agriculture, modernization of farming techniques, and growing adoption of innovative agro-scientific products. Key nations including Brazil, Argentina, and Mexico are utilizing precision agriculture, biofertilizers,

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and crop protection solutions to boost crop yields and satisfy rising food requirements. Government support, subsidies, and programs encouraging sustainable agriculture further drive growth in the region. Expansion of commercial and export-oriented farming also accelerates technology adoption. Combined with favorable climatic conditions, abundant arable land, and a focus on agricultural innovation, Latin America represents a rapidly expanding and high-potential market for AgroScience globally.

Key players in the market

Some of the key players in AgroScience Market include Bayer AG, Corteva, Inc., Syngenta AG, BASF SE, FMC Corporation, Sumitomo Chemical Company, Limited, UPL Limited, ADAMA Ltd., Nufarm Limited, Mosaic Company, Nutrien Ltd., Yara International ASA, Israel Chemicals Ltd. (ICL), Helm AG and Albaugh LLC.

Key Developments:

In August 2025, Corteva, Inc., Chemours Company and DuPont de Nemours, 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 and claims of statewide PFAS contamination unrelated to those sites, including from the use of aqueous film forming foam.

In March 2025, Syngenta Crop Protection has signed an agreement with Agrauxine by Lesaffre to private label and exclusively distributes Syngenta's products STROVEQ® and SPREXIMA®. STROVEQ is a systemic resistance inducer and SPREXIMA, is a biofungicide. These products will be sold and distributed in the ornamental market in the US. This agreement further strengthens the collaboration between Agrauxine and Syngenta.

In March 2025, Bayer and Suzhou Puhe BioPharma Co.,Ltd announced that they have entered into a global license agreement for Puhe BioPharma's oral, small molecule PRMT5 inhibitor that selectively targets MTAP-deleted tumors. Under the agreement, Bayer obtains an exclusive worldwide license to develop, manufacture and commercialize the MTA-cooperative PRMT5 inhibitor.

Product Types Covered:

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Genetically Modified (GM) Seeds

Biopesticides

Biostimulants

Fertilizers

Crop Protection Chemicals

Production Methods Covered:

Conventional Agriculture

Certified Organic Farming

Hydroponics

Aeroponics

Distribution Channels Covered:

Direct-to-Farm Sales

Agro Distributors & Wholesalers

E-commerce Platforms

Retail Agro Stores

Applications Covered:

Row Crops

Horticultural Crops

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- Cereal Grains
- Ornamental Plants & Turf

End Users Covered:

- Large-Scale Commercial Farmers
- Smallholder Farmers
- Urban Gardeners & Hobbyists
- Agro Corporations & Co-ops

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe

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- Asia Pacific
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  - 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

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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

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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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