

# **Sustainable Agriculture Market Forecasts to 2032 – Global Analysis By Farming Practice (Organic Farming, Conservation Tillage, Agroforestry, Integrated Pest Management, Permaculture, and Crop Rotation & Cover Cropping), Input Type (Biological Fertilizers & Soil Amendments, Organic Seeds & Planting Material, Biopesticides & Bioherbicides, and Irrigation & Water Management Systems), Crop Type, Farm Size, Technology, End User and By Geography**

<https://marketpublishers.com/r/S0AE4D507440EN.html>

Date: July 2025

Pages: 200

Price: US\$ 4,150.00 (Single User License)

ID: S0AE4D507440EN

## **Abstracts**

According to Statistics MRC, the Global Sustainable Agriculture Market is accounted for \$24.2 billion in 2025 and is expected to reach \$52.2 billion by 2032 growing at a CAGR of 11.6% during the forecast period. The sustainable agriculture market emphasizes eco-friendly farming practices that balance productivity with environmental stewardship. It integrates soil health management, crop rotation, water efficiency, and reduced chemical inputs to achieve long-term food security. Rising global demand for responsibly produced food, supportive government policies, and technological innovations in organic fertilizers and precision farming are driving adoption. This market is expanding as consumers prioritize traceability, biodiversity preservation, and carbon reduction. Investors and stakeholders increasingly view sustainable agriculture as essential for resilient, climate-smart food systems.

According to NITI Aayog and CSTEP, Zero Budget Natural Farming (ZBNF) in Andhra Pradesh reduced water use by 50–60%, emissions by 55–99%, and cultivation costs by ₹3,000–₹22,000 per acre.

## Market Dynamics:

### Driver:

#### Consumer Demand for Organic Products

The market is primarily propelled by a profound shift in consumer consciousness towards health and environmental sustainability. Shoppers are increasingly scrutinizing food labels, actively seeking out organic products perceived as healthier and free from synthetic chemicals. This demand is no longer a niche trend but a mainstream movement, compelling major retailers and food brands to source sustainable ingredients to protect their brand equity. Consequently, this consumer pull creates a reliable and growing revenue stream for producers, encouraging more farmers to transition to sustainable practices to capture this premium market segment.

### Restraint:

#### Limited Access to Resources

The initial investment for transitioning to organic certification or purchasing precision farming equipment is prohibitively high for many smallholder farmers. Furthermore, a lack of technical training and advisory services leaves farmers uncertain about implementing new practices effectively. This resource gap creates a vicious cycle, where those who stand to benefit most from sustainable methods are often the least equipped to initiate the transition, thereby restraining overall market growth.

### Opportunity:

#### Integration of Agroforestry

A significant emerging opportunity lies in the strategic integration of agroforestry, which combines trees and shrubs with crops or livestock. This system offers a multifaceted solution by enhancing biodiversity, improving soil health, and sequestering significant amounts of carbon, thus opening up potential revenue from carbon credit markets. Moreover, it provides farmers with additional income streams from timber or fruit harvests while making their core operations more resilient to climate extremes. This holistic approach represents a powerful model for the future, aligning economic viability with profound ecological benefits.

Threat:

### Climate Variability

The sector faces an immediate and escalating threat from increasing climate variability, including unpredictable rainfall, prolonged droughts, and severe flooding. These events directly disrupt production cycles, reduce crop yields, and can decimate harvests, undermining the economic stability of farms committed to sustainable practices. Such volatility makes long-term planning exceedingly difficult and can deter new entrants who perceive the financial risks as too high. This constant pressure threatens to erode market stability and can slow down the transition to more climate-resilient agricultural systems.

### Covid-19 Impact:

The pandemic initially triggered severe disruptions in global supply chains, exposing the fragility of conventional agricultural models and causing labor shortages. However, it also acted as a catalyst for the sustainable agriculture sector. Lockdowns heightened consumer focus on health, immunity, and food provenance, accelerating demand for locally sourced and organic produce. This crisis underscored the critical need for resilient and decentralized food systems, prompting increased investment and policy support for sustainable practices as a buffer against future global shocks, ultimately strengthening the market's long-term trajectory

The organic farming segment is expected to be the largest during the forecast period

The organic farming segment is expected to account for the largest market share during the forecast period fueled by well-established consumer demand and premium pricing structures. This segment has matured beyond a trend into a substantial global industry, supported by robust certification systems and strong retail partnerships. Furthermore, government incentives in several regions actively encourage the conversion of conventional farmland to organic, solidifying its market position. The segment's scale and consistent consumer loyalty provide a stable foundation for the entire sustainable agriculture market, ensuring its continued leadership.

The biopesticides & bioherbicides segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the biopesticides & bioherbicides segment is predicted to

witness the highest growth rate driven by the urgent need for effective, eco-friendly pest management solutions. Stricter regulations on synthetic pesticides and rising resistance among pest populations are compelling growers to seek safer alternatives. Additionally, these products align perfectly with the principles of integrated pest management (IPM) and organic farming, creating synergistic demand. The high growth reflects a market shift towards targeted, biological solutions that protect crop yields without compromising environmental or human health.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share anchored by a sophisticated consumer base with high purchasing power and a strong awareness of sustainable food choices. The region benefits from advanced agricultural infrastructure, significant R&D investments from agri-tech corporations, and supportive federal and state-level programs. Moreover, the presence of major retail chains with dedicated organic private-label lines ensures widespread market penetration and accessibility, cementing the region's dominant position in the global sustainable agriculture landscape for the foreseeable future.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR fueled by a massive agricultural sector increasingly pressured by population growth and environmental degradation. Rising governmental initiatives to promote sustainable practices, coupled with growing middle-class awareness of food safety issues, are key drivers. Furthermore, the region presents immense potential for the adoption of novel technologies, as farmers seek to improve yields and soil health, creating a fertile ground for the rapid expansion of the sustainable agriculture market in the coming years.

Key players in the market

Some of the key players in Sustainable Agriculture Market include Bayer, Corteva Agriscience, Syngenta Group, BASF Agricultural Solutions, Yara International, Nutrien, Cargill, Archer-Daniels-Midland (ADM), John Deere, AGCO Corporation, Trimble Inc., Indigo Ag, Olam International, Pivot Bio, Netafim, AeroFarms, and Plenty.

Key Developments:

In July 2025, Cargill supports regenerative agriculture by connecting farmers to environmental markets through its RegenConnect® program, providing incentives and agronomic support. They collaborate with PepsiCo to expand regenerative practices across 240,000 acres in Iowa by 2030.

In October 2024, ADM has enrolled over 260 UK farmers in its regenerative agriculture program and aims for 5 million acres globally by 2025. They partner with Smucker and other organizations to expand regenerative practices in the U.S. peanut value chain and reduce carbon footprints.

In May 2023, Nutrien partnered with Bunge to create a sustainable agriculture network supporting U.S. farmers with practices like cover cropping and nutrient management to reduce carbon footprints. Nutrien also joined U.S. Farmers and Ranchers in Action (USFRA) to promote sustainable outcomes in farming.

#### Farming Practices Covered:

Organic Farming

Conservation Tillage

Agroforestry

Integrated Pest Management

Permaculture

Crop Rotation & Cover Cropping

#### Input Types Covered:

Biological Fertilizers & Soil Amendments

Organic Seeds & Planting Material

Biopesticides & Bioherbicides

Irrigation & Water Management Systems

### Crop Types Covered:

Cereals & Grains

Fruits & Vegetables

Oilseeds & Pulses

Other Specialty Crops

### Farm Sizes Covered:

Smallholder Farms

Medium Farms

Large Commercial Farms

### Technologies Covered:

Precision Agriculture

Controlled Environment Agriculture

Digital Platforms & Farm Management Software

Renewable Energy Solutions

### End Users Covered:

Farmers & Growers

Agri-Cooperatives

Food & Beverage Companies

Government & NGOs

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

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