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Agricultural Carbon Accounting Market Forecasts to 2034 – Global Analysis By Accounting Method (Activity-Based Accounting, Emission Factor Accounting, Process-Based Modeling, Life Cycle Assessment, Remote Sensing and Other Accounting Methods), Carbon Source, Accounting Component, Data Source, End User, and Geography

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Abstracts

According to Stratistics MRC, the Global Agricultural Carbon Accounting Market is accounted for $0.6 billion in 2026 and is expected to reach $2.8 billion by 2034 growing at a CAGR of 21.2% during the forecast period. Agricultural Carbon Accounting encompasses methodologies, software, measurement systems, and data platforms used to quantify greenhouse gas emissions and carbon sequestration associated with agricultural activities. These systems evaluate emissions from fertilizer use, livestock, energy consumption, soil management, irrigation, transportation, and other farm operations while also accounting for carbon stored in soils, vegetation, and other agricultural systems. Farmers, food companies, cooperatives, and sustainability organizations use carbon accounting to establish baselines, monitor emissions, assess reduction strategies, and support sustainability reporting. Data can be collected from farm records, sensors, satellite imagery, soil measurements, and activity-based models. Growing demand for measurable agricultural climate performance is driving adoption. Integration with carbon-credit programs and regenerative agriculture initiatives is increasing the importance of accurate farm-level accounting. Advances in remote sensing and automated data collection are improving measurement efficiency.

Market Dynamics

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Driver:

Growing demand for carbon footprint measurement and reporting

Increasing corporate commitments to net-zero emissions and growing consumer demand for sustainable products are driving demand for agricultural carbon accounting that enables measurement and reporting of supply chain emissions. Food companies are requiring suppliers to quantify and reduce carbon footprints. Regulatory requirements for emissions reporting are expanding across jurisdictions. Growing carbon markets create economic incentives for accurate carbon accounting. Financial institutions are increasingly considering carbon performance in lending and investment decisions.

Restraint:

Methodological complexity and data challenges

Methodological complexity and lack of standardization in agricultural carbon accounting present significant challenges for market development. Data availability and quality issues, particularly for smallholder farms in developing regions, constrain accurate accounting. Variability in emission factors across different regions and production systems introduces uncertainty. High costs of data collection and analysis may limit adoption, especially for smaller operations. Limited expertise in agricultural carbon accounting constrains effective implementation.

Opportunity:

Integration of remote sensing and AI

Integration of remote sensing and artificial intelligence presents significant growth opportunities for agricultural carbon accounting. Satellite imagery enables cost-effective monitoring of land use and management practices across large areas. AI algorithms improve the accuracy of carbon stock and emission estimates. Growing availability of affordable sensors enables collection of farm-level data. Integration with farm management software enables automated data collection and reporting. Advances in modeling improve the accuracy of carbon accounting estimates.

Threat:

Regulatory uncertainty and verification challenges

Regulatory uncertainty regarding carbon accounting methodologies and verification

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standards may affect market development. Verification challenges associated with agricultural carbon offsets may limit confidence in carbon markets. Economic pressures may affect investment in carbon accounting technologies. Consumer skepticism regarding carbon claims may affect adoption. Rapid evolution of carbon markets and methodologies creates uncertainty.

Covid-19 Impact:

The COVID-19 pandemic accelerated corporate commitments to sustainability and climate action, driving demand for agricultural carbon accounting solutions. Growing awareness of the environmental impact of food systems supports market expansion. The post-pandemic period has witnessed increased investment in carbon measurement and reporting capabilities. Growing focus on supply chain sustainability continues driving adoption. Remote sensing and digital tools gained importance during the pandemic and continue to enable cost-effective carbon accounting.

The activity-based accounting segment is expected to be the largest during the forecast period

The activity-based accounting segment is expected to account for the largest market share during the forecast period as activity-based methods are the most established and widely used approach for agricultural carbon accounting. Activity data including fuel use, fertilizer application, and livestock numbers are relatively easy to collect and provide a practical basis for emission estimation. Growing adoption of farm management software enables automated collection of activity data. Established methodologies and emission factors support segment leadership. Activity-based accounting is the foundation for more advanced carbon accounting approaches.

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

Over the forecast period, the remote sensing segment is predicted to witness the highest growth rate driven by increasing availability of satellite imagery and advances in analytical capabilities. Remote sensing enables cost-effective monitoring of land use, management practices, and carbon stocks across large areas. Growing availability of high-resolution imagery and advanced analytics improves measurement accuracy. Integration with process-based models enables comprehensive carbon accounting at scale. Remote sensing is essential for scaling carbon accounting across smallholder farms and large agricultural regions.

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Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share owing to advanced agricultural technology adoption, strong regulatory framework for emissions reporting, and presence of carbon accounting solution providers. The United States hosts major carbon accounting companies with established customer bases across food and agriculture sectors. High corporate sustainability commitments and carbon market development reinforce regional market leadership. Growing demand for supply chain emissions data drives adoption across the region.

Region with highest CAGR:

Over the forecast period, the Europe region is anticipated to exhibit the highest CAGR driven by strong regulatory requirements for emissions reporting, aggressive corporate sustainability commitments, and growing consumer awareness. European Union policies supporting climate-smart agriculture drive adoption of carbon accounting solutions. Significant research funding and corporate investment support technology development. Strong sustainability culture drives adoption across the region. Carbon border adjustment mechanisms reinforce the need for accurate emissions accounting.

Key players in the market

Some of the key players in the Agricultural Carbon Accounting Market include Agreena ApS, Regrow Ag, Indigo Ag, Inc., Boomitra, Inc., Nori, Persefoni, Watershed Technology, Inc., Climate FieldView, Downforce Technologies, Agoro Carbon Alliance, Truterra, Soil Capital, Grassroots Carbon, Agrecalc, and Carbon Standards International AG.

Key Developments:

In September 2026, Regrow Ag launched an enhanced agricultural carbon accounting platform featuring AI-powered remote sensing and process-based modeling for accurate measurement of soil carbon and emissions across diverse farming systems.

In May 2026, Agreena ApS expanded its carbon accounting and certification platform to include new methodologies for livestock emissions and agroforestry, enabling comprehensive farm-level carbon accounting.

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In January 2026, Indigo Ag, Inc. introduced an integrated carbon accounting solution combining farm-level data collection with satellite monitoring for verification of carbon credits.

In August 2025, Boomitra, Inc. announced the launch of a remote sensing-based carbon accounting platform for smallholder farms, enabling cost-effective measurement across developing regions.

Accounting Methods Covered:

Activity-Based Accounting

Emission Factor Accounting

Process-Based Modeling

Life Cycle Assessment

Remote Sensing

Other Accounting Methods

Carbon Sources Covered:

Soil Emissions

Fertilizer Emissions

Livestock Emissions

Energy Emissions

Land-Use Emissions

Other Carbon Sources

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Accounting Components Covered:

- Carbon Measurement
- Emission Calculation
- Carbon Reporting
- Carbon Verification
- Carbon Disclosure
- Other Accounting Components

Data Sources Covered:

- Farm Records
- Satellite Data
- Sensor Data
- Weather Data
- Soil Data
- Other Data Sources

End Users Covered:

- Farmers
- Food Companies
- Agribusinesses

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- Carbon Project Developers
- Financial Institutions
- Other End Users

Regions Covered:

- North America
  - United States
  - Canada
  - Mexico
- Europe
  - United Kingdom
  - Germany
  - France
  - Italy
  - Spain
  - Netherlands
  - Belgium
  - Sweden
  - Switzerland
  - Poland

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- Rest of Europe

Asia Pacific
- China
- Japan
- India
- South Korea
- Australia
- Indonesia
- Thailand
- Malaysia
- Singapore
- Vietnam
- Rest of Asia Pacific

South America
- Brazil
- Argentina
- Colombia
- Chile
- Peru
- Rest of South America

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Rest of the World (RoW)
- Middle East
  - Saudi Arabia
  - United Arab Emirates
  - Qatar
  - Israel
  - Rest of Middle East
- Africa
  - South Africa
  - Egypt
  - Morocco
  - Rest of 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 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

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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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