

# **Farm Data Analytics Market Forecasts to 2034 – Global Analysis By Component (Software Platforms, Data Analytics Tools, Cloud-Based Solutions, On-Premise Solutions, AI & Machine Learning Models, Data Visualization Tools and Predictive Analytics Engines), Data Source, Deployment Mode, Application, End User and By Geography**

<https://marketpublishers.com/r/FC65849DF43BEN.html>

Date: May 2026

Pages: 200

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

ID: FC65849DF43BEN

## **Abstracts**

According to Statistics MRC, the Global Farm Data Analytics Market is accounted for \$8.6 billion in 2026 and is expected to reach \$21.3 billion by 2034 growing at a CAGR of 12.0% during the forecast period. Farm data analytics refers to software platforms, data analytics tools, cloud-based and on-premise solutions, AI and machine learning models, data visualization systems, and predictive analytics engines that collect, integrate, and analyze agricultural data from satellite imagery, drone surveys, IoT sensors, weather stations, soil sampling, and crop monitoring networks to provide farmers, agronomists, and agribusiness operators with actionable insights for crop yield optimization, resource efficiency improvement, risk management, and farm operational decision support.

### **Market Dynamics:**

#### **Driver:**

Precision Agriculture Technology Mainstream Adoption

Accelerating commercial farmer adoption of precision agriculture practices requiring data-driven field management decisions is driving farm data analytics platform investment as the analytical intelligence layer that transforms raw sensor, satellite, and

operational data into actionable agronomic recommendations. Government precision agriculture investment incentive programs across major agricultural economies combined with farm management software integration mandates from major agribusiness input suppliers are expanding farm data analytics adoption beyond technology-forward early adopters to mainstream commercial farming operations.

**Restraint:****Rural Digital Infrastructure Gaps**

Inadequate rural broadband and cellular connectivity infrastructure across vast agricultural regions in major crop-producing areas of the United States, Brazil, India, and sub-Saharan Africa creates data upload, cloud synchronization, and real-time analytics access barriers that constrain farm data analytics platform deployment in geographies representing the largest agricultural production areas, limiting addressable market penetration below technology availability levels in developed market agricultural regions with superior connectivity.

**Opportunity:****Carbon Farming Program Data Requirements**

Mandatory measurement, reporting, and verification data requirements for agricultural carbon sequestration credit programs represent a substantial farm data analytics market expansion opportunity as carbon program operators require standardized digital data collection and analytics infrastructure across enrolled farm operations to verify practice adoption, quantify carbon sequestration outcomes, and generate audit-ready credit issuance documentation that drives institutional farm data platform procurement beyond pure agronomic efficiency motivation.

**Threat:****Data Ownership Farmer Concern**

Farmer data sovereignty concerns about commercial farm data analytics platform providers retaining, monetizing, or sharing farm operational data with third parties including input suppliers, commodity traders, and government agencies create adoption hesitation and platform switching behavior that constrains long-term customer retention for farm data analytics companies perceived as insufficiently transparent about data

utilization practices and inadequately protective of farmer proprietary operational information.

### **Covid-19 Impact:**

COVID-19 supply chain disruptions and reduced access of agronomists and input suppliers to farm fields accelerated remote farm monitoring and data analytics adoption as digital farm management platforms enabling remote crop assessment and precision input management substituted for reduced on-farm advisory service access during pandemic restrictions. Post-pandemic digital agriculture investment acceleration and farm operational resilience strategy adoption continue driving farm data analytics platform procurement across commercial farming segments globally.

The AI & machine learning models segment is expected to be the largest during the forecast period

The AI & machine learning models segment is expected to account for the largest market share during the forecast period, due to AI and machine learning capability representing the core differentiated value delivery mechanism within farm data analytics platforms that transforms raw agricultural data into predictive yield models, early disease detection alerts, variable rate prescription generation, and market timing recommendations that conventional data visualization tools cannot provide, commanding premium pricing from commercial farmers seeking automated decision intelligence beyond manual data interpretation capability.

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

Over the forecast period, the satellite imagery segment is predicted to witness the highest growth rate, driven by rapidly declining per-image satellite data costs from expanding commercial satellite constellations including Planet Labs, Maxar, and domestic programs providing near-daily high-resolution agricultural field coverage that enables continuous crop monitoring, stress detection, and yield estimation services at affordable per-acre pricing economics accessible to a growing proportion of commercial farm operations globally.

### **Region with largest share:**

During the forecast period, the North America region is expected to hold the largest

market share, due to the United States hosting the world's most advanced precision agriculture technology adoption ecosystem with leading farm data analytics companies including Deere & Company, Trimble, Climate LLC, and Farmers Edge generating substantial domestic revenue from established commercial farm customer relationships across corn, soybean, wheat, and specialty crop production sectors.

### **Region with highest CAGR:**

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, due to India, China, and Australia implementing large-scale government digital agriculture investment programs, rapidly growing commercial farm technology adoption among progressive producers in these markets, and substantial domestic agtech startup ecosystem development creating regionally customized farm data analytics solutions for diverse Asian and Australian cropping system management requirements.

### **Key players in the market**

Some of the key players in Farm Data Analytics Market include Deere & Company, Corteva Agriscience, Bayer AG, Syngenta Group, Trimble Inc., AGCO Corporation, Raven Industries, Climate LLC (Bayer), Farmers Edge Inc., CropX Technologies, Taranis, Granular Inc., IBM Corporation, Microsoft Corporation, Oracle Corporation, Accenture PLC, and SAP SE.

### **Key Developments:**

In March 2026, Climate LLC (Bayer) launched an AI-powered field risk assessment platform integrating satellite imagery with weather modeling to predict fungal disease pressure and automatically generate fungicide application timing recommendations for corn and soybean growers.

In February 2026, Farmers Edge Inc. introduced a new carbon sequestration monitoring module within its FarmCommand platform enabling grain farmers to quantify and verify soil carbon changes for participation in voluntary carbon credit programs.

In December 2025, CropX Technologies secured a major precision irrigation analytics partnership with a leading Australian irrigated grain cooperative deploying soil sensor networks and AI scheduling across 50,000 hectares of commercial production.

### **Components Covered:**

Software Platforms

Data Analytics Tools

Cloud-Based Solutions

On-Premise Solutions

AI & Machine Learning Models

Data Visualization Tools

Predictive Analytics Engines

#### Data Sources Covered:

Satellite Imagery

Drone Data

IoT Sensor Data

Weather Data

Soil Health Data

Crop Monitoring Data

#### Deployment Modes Covered:

Cloud-Based

On-Premise

Hybrid Deployment

### Applications Covered:

- Crop Yield Prediction
- Precision Farming
- Soil Health Monitoring
- Irrigation Management
- Pest & Disease Detection
- Farm Financial Management

### End Users Covered:

- Individual Farmers
- Agribusiness Enterprises
- Government Organizations
- Research Institutions
- Cooperatives

### Regions Covered:

- North America
  - United States
  - Canada
  - Mexico
- Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

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

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)
- 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

## Contents

### **1 EXECUTIVE SUMMARY**

- 1.1 Market Snapshot and Key Highlights
- 1.2 Growth Drivers, Challenges, and Opportunities
- 1.3 Competitive Landscape Overview
- 1.4 Strategic Insights and Recommendations

### **2 RESEARCH FRAMEWORK**

- 2.1 Study Objectives and Scope
- 2.2 Stakeholder Analysis
- 2.3 Research Assumptions and Limitations
- 2.4 Research Methodology
  - 2.4.1 Data Collection (Primary and Secondary)
  - 2.4.2 Data Modeling and Estimation Techniques
  - 2.4.3 Data Validation and Triangulation
  - 2.4.4 Analytical and Forecasting Approach

### **3 MARKET DYNAMICS AND TREND ANALYSIS**

- 3.1 Market Definition and Structure
- 3.2 Key Market Drivers
- 3.3 Market Restraints and Challenges
- 3.4 Growth Opportunities and Investment Hotspots
- 3.5 Industry Threats and Risk Assessment
- 3.6 Technology and Innovation Landscape
- 3.7 Emerging and High-Growth Markets
- 3.8 Regulatory and Policy Environment
- 3.9 Impact of COVID-19 and Recovery Outlook

### **4 COMPETITIVE AND STRATEGIC ASSESSMENT**

- 4.1 Porter's Five Forces Analysis
  - 4.1.1 Supplier Bargaining Power
  - 4.1.2 Buyer Bargaining Power
  - 4.1.3 Threat of Substitutes
  - 4.1.4 Threat of New Entrants

- 4.1.5 Competitive Rivalry
- 4.2 Market Share Analysis of Key Players
- 4.3 Product Benchmarking and Performance Comparison

## **5 GLOBAL FARM DATA ANALYTICS MARKET, BY COMPONENT**

- 5.1 Software Platforms
- 5.2 Data Analytics Tools
- 5.3 Cloud-Based Solutions
- 5.4 On-Premise Solutions
- 5.5 AI & Machine Learning Models
- 5.6 Data Visualization Tools
- 5.7 Predictive Analytics Engines

## **6 GLOBAL FARM DATA ANALYTICS MARKET, BY DATA SOURCE**

- 6.1 Satellite Imagery
- 6.2 Drone Data
- 6.3 IoT Sensor Data
- 6.4 Weather Data
- 6.5 Soil Health Data
- 6.6 Crop Monitoring Data

## **7 GLOBAL FARM DATA ANALYTICS MARKET, BY DEPLOYMENT MODE**

- 7.1 Cloud-Based
- 7.2 On-Premise
- 7.3 Hybrid Deployment

## **8 GLOBAL FARM DATA ANALYTICS MARKET, BY APPLICATION**

- 8.1 Crop Yield Prediction
- 8.2 Precision Farming
- 8.3 Soil Health Monitoring
- 8.4 Irrigation Management
- 8.5 Pest & Disease Detection
- 8.6 Farm Financial Management

## **9 GLOBAL FARM DATA ANALYTICS MARKET, BY END USER**

- 9.1 Individual Farmers
- 9.2 Agribusiness Enterprises
- 9.3 Government Organizations
- 9.4 Research Institutions
- 9.5 Cooperatives

## **10 GLOBAL FARM DATA ANALYTICS MARKET, BY GEOGRAPHY**

- 10.1 North America
  - 10.1.1 United States
  - 10.1.2 Canada
  - 10.1.3 Mexico
- 10.2 Europe
  - 10.2.1 United Kingdom
  - 10.2.2 Germany
  - 10.2.3 France
  - 10.2.4 Italy
  - 10.2.5 Spain
  - 10.2.6 Netherlands
  - 10.2.7 Belgium
  - 10.2.8 Sweden
  - 10.2.9 Switzerland
  - 10.2.10 Poland
  - 10.2.11 Rest of Europe
- 10.3 Asia Pacific
  - 10.3.1 China
  - 10.3.2 Japan
  - 10.3.3 India
  - 10.3.4 South Korea
  - 10.3.5 Australia
  - 10.3.6 Indonesia
  - 10.3.7 Thailand
  - 10.3.8 Malaysia
  - 10.3.9 Singapore
  - 10.3.10 Vietnam
  - 10.3.11 Rest of Asia Pacific
- 10.4 South America
  - 10.4.1 Brazil

- 10.4.2 Argentina
- 10.4.3 Colombia
- 10.4.4 Chile
- 10.4.5 Peru
- 10.4.6 Rest of South America
- 10.5 Rest of the World (RoW)
  - 10.5.1 Middle East
    - 10.5.1.1 Saudi Arabia
    - 10.5.1.2 United Arab Emirates
    - 10.5.1.3 Qatar
    - 10.5.1.4 Israel
    - 10.5.1.5 Rest of Middle East
  - 10.5.2 Africa
    - 10.5.2.1 South Africa
    - 10.5.2.2 Egypt
    - 10.5.2.3 Morocco
    - 10.5.2.4 Rest of Africa

## **11 STRATEGIC MARKET INTELLIGENCE**

- 11.1 Industry Value Network and Supply Chain Assessment
- 11.2 White-Space and Opportunity Mapping
- 11.3 Product Evolution and Market Life Cycle Analysis
- 11.4 Channel, Distributor, and Go-to-Market Assessment

## **12 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES**

- 12.1 Mergers and Acquisitions
- 12.2 Partnerships, Alliances, and Joint Ventures
- 12.3 New Product Launches and Certifications
- 12.4 Capacity Expansion and Investments
- 12.5 Other Strategic Initiatives

## **13 COMPANY PROFILES**

- 13.1 Deere & Company
- 13.2 Corteva Agriscience
- 13.3 Bayer AG
- 13.4 Syngenta Group

- 13.5 Trimble Inc.
- 13.6 AGCO Corporation
- 13.7 Raven Industries
- 13.8 Climate LLC (Bayer)
- 13.9 Farmers Edge Inc.
- 13.10 CropX Technologies
- 13.11 Taranis
- 13.12 Granular Inc.
- 13.13 IBM Corporation
- 13.14 Microsoft Corporation
- 13.15 Oracle Corporation
- 13.16 Accenture PLC
- 13.17 SAP SE

## List Of Tables

### LIST OF TABLES

Table 1 Global Farm Data Analytics Market Outlook, By Region (2023-2034) (\$MN)

Table 2 Global Farm Data Analytics Market Outlook, By Component (2023-2034) (\$MN)

Table 3 Global Farm Data Analytics Market Outlook, By Software Platforms  
(2023-2034) (\$MN)

Table 4 Global Farm Data Analytics Market Outlook, By Data Analytics Tools  
(2023-2034) (\$MN)

Table 5 Global Farm Data Analytics Market Outlook, By Cloud-Based Solutions  
(2023-2034) (\$MN)

Table 6 Global Farm Data Analytics Market Outlook, By On-Premise Solutions  
(2023-2034) (\$MN)

Table 7 Global Farm Data Analytics Market Outlook, By AI & Machine Learning Models  
(2023-2034) (\$MN)

Table 8 Global Farm Data Analytics Market Outlook, By Data Visualization Tools  
(2023-2034) (\$MN)

Table 9 Global Farm Data Analytics Market Outlook, By Predictive Analytics Engines  
(2023-2034) (\$MN)

Table 10 Global Farm Data Analytics Market Outlook, By Data Source (2023-2034)  
(\$MN)

Table 11 Global Farm Data Analytics Market Outlook, By Satellite Imagery (2023-2034)  
(\$MN)

Table 12 Global Farm Data Analytics Market Outlook, By Drone Data (2023-2034)  
(\$MN)

Table 13 Global Farm Data Analytics Market Outlook, By IoT Sensor Data (2023-2034)  
(\$MN)

Table 14 Global Farm Data Analytics Market Outlook, By Weather Data (2023-2034)  
(\$MN)

Table 15 Global Farm Data Analytics Market Outlook, By Soil Health Data (2023-2034)  
(\$MN)

Table 16 Global Farm Data Analytics Market Outlook, By Crop Monitoring Data  
(2023-2034) (\$MN)

Table 17 Global Farm Data Analytics Market Outlook, By Deployment Mode  
(2023-2034) (\$MN)

Table 18 Global Farm Data Analytics Market Outlook, By Cloud-Based (2023-2034)  
(\$MN)

Table 19 Global Farm Data Analytics Market Outlook, By On-Premise (2023-2034)

(\$MN)

Table 20 Global Farm Data Analytics Market Outlook, By Hybrid Deployment  
(2023-2034) (\$MN)

Table 21 Global Farm Data Analytics Market Outlook, By Application (2023-2034)  
(\$MN)

Table 22 Global Farm Data Analytics Market Outlook, By Crop Yield Prediction  
(2023-2034) (\$MN)

Table 23 Global Farm Data Analytics Market Outlook, By Precision Farming  
(2023-2034) (\$MN)

Table 24 Global Farm Data Analytics Market Outlook, By Soil Health Monitoring  
(2023-2034) (\$MN)

Table 25 Global Farm Data Analytics Market Outlook, By Irrigation Management  
(2023-2034) (\$MN)

Table 26 Global Farm Data Analytics Market Outlook, By Pest & Disease Detection  
(2023-2034) (\$MN)

Table 27 Global Farm Data Analytics Market Outlook, By Farm Financial Management  
(2023-2034) (\$MN)

Table 28 Global Farm Data Analytics Market Outlook, By End User (2023-2034) (\$MN)

Table 29 Global Farm Data Analytics Market Outlook, By Individual Farmers  
(2023-2034) (\$MN)

Table 30 Global Farm Data Analytics Market Outlook, By Agribusiness Enterprises  
(2023-2034) (\$MN)

Table 31 Global Farm Data Analytics Market Outlook, By Government Organizations  
(2023-2034) (\$MN)

Table 32 Global Farm Data Analytics Market Outlook, By Research Institutions  
(2023-2034) (\$MN)

Table 33 Global Farm Data Analytics Market Outlook, By Cooperatives (2023-2034)  
(\$MN)

Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) Regions are also represented in the same manner as above.

## I would like to order

Product name: Farm Data Analytics Market Forecasts to 2034 – Global Analysis By Component  
(Software Platforms, Data Analytics Tools, Cloud-Based Solutions, On-Premise Solutions, AI & Machine Learning Models, Data Visualization Tools and Predictive Analytics Engines), Data Source, Deployment Mode, Application, End User and By Geography

Product link: <https://marketpublishers.com/r/FC65849DF43BEN.html>

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

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/FC65849DF43BEN.html>