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Weather Intelligence for Agriculture Market Forecasts to 2034 – Global Analysis By Solution Type (Weather Forecasting Solutions, Climate Risk Analytics Solutions, Field Weather Monitoring Solutions, Crop Advisory Solutions and Other Solution Types), Component, Technology, Application, End User, and By Geography

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Abstracts

According to Stratistics MRC, the Global Weather Intelligence for Agriculture Market is accounted for $5.5 billion in 2026 and is expected to reach $18.9 billion by 2034 growing at a CAGR of 16.7% during the forecast period. Weather intelligence for agriculture refers to the use of advanced meteorological data, predictive analytics, and digital technologies to support farming decisions and risk management. These systems provide real-time and forecasted information related to rainfall, temperature, humidity, wind, and extreme weather events. Farmers use weather intelligence to optimize planting schedules, irrigation, fertilization, pest control, and harvesting activities. Integration with artificial intelligence and IoT platforms further improves forecasting accuracy and operational efficiency. Rising climate variability and the need for precision agriculture are increasing demand for weather-driven agricultural decision-support systems globally.

Market Dynamics:

Driver:

Rising climate variability concerns

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Farmers are increasingly facing unpredictable rainfall patterns, temperature fluctuations, and seasonal instability. This is creating strong demand for accurate weather forecasting tools to support farm planning and risk management. Agricultural stakeholders are shifting toward data-driven decision-making systems. Governments and agri-tech companies are investing in climate resilience technologies. Integration of real-time weather analytics is becoming essential for productivity optimization. These factors are driving strong market growth.

Restraint:

Limited rural digital infrastructure

Limited digital infrastructure in rural regions continues to restrict the adoption of weather intelligence solutions. Many farming areas still lack stable internet connectivity and reliable digital access. This limits real-time data delivery and system efficiency. High infrastructure development costs further slow down deployment in emerging economies. Farmers in remote regions face difficulties in accessing advanced forecasting tools. Technology adoption gaps between urban and rural areas remain significant. These factors collectively restrain market expansion.

Opportunity:

AI-powered weather prediction tools

Advanced machine learning models are improving forecasting accuracy and early warning systems. This is driving AI-powered weather prediction tools as companies integrate artificial intelligence algorithms, satellite data analytics, and real-time sensor networks to deliver highly precise agricultural weather forecasts that support crop planning, irrigation management, and risk mitigation strategies across diverse farming regions. Demand for predictive agriculture solutions is rising rapidly. Technology innovation is accelerating. Adoption of smart farming practices is expanding. These trends are unlocking significant growth potential.

Threat:

Forecast accuracy reliability issues

Sudden atmospheric changes and data inconsistencies can reduce prediction accuracy. Inaccurate forecasts may lead to poor agricultural decision-making. Farmers may face

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financial losses due to incorrect weather predictions. Dependence on complex data models increases operational uncertainty. Technical limitations in remote sensing systems also contribute to inaccuracies. These factors act as a major market threat.

Covid-19 Impact:

The COVID-19 pandemic increased reliance on digital agricultural solutions due to labor shortages and restricted field access. Farmers adopted remote monitoring tools to manage agricultural operations efficiently. Demand for weather intelligence platforms increased during this period. Supply chain disruptions highlighted the need for predictive farming tools. Investments in digital agriculture technologies gained momentum. Awareness of climate-resilient farming practices improved significantly. Overall, the pandemic supported long-term market growth.

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

The software segment is expected to account for the largest market share during the forecast period as it provides essential platforms for data processing, visualization, and real-time weather analytics that support agricultural decision-making across diverse farming operations globally. Increasing adoption of cloud-based solutions is further strengthening segment dominance. Integration of AI and big data analytics enhances forecasting capabilities. Farmers and agribusinesses rely heavily on software tools for operational planning. Continuous innovation in agricultural analytics platforms is driving growth. These factors ensure strong market leadership.

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

Over the forecast period, the artificial intelligence segment is predicted to witness the highest growth rate due to increasing demand for highly accurate and predictive weather modeling solutions in agriculture. AI technologies enable advanced data interpretation and pattern recognition for climate forecasting. This is driving artificial intelligence segment growth as companies integrate machine learning algorithms, deep learning models, and predictive analytics systems to enhance forecasting precision, optimize farming decisions, and improve agricultural risk management across global farming regions. Adoption of smart agriculture is accelerating. Data availability is expanding rapidly.

Region with largest share:

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During the forecast period, the North America region is expected to hold the largest market share owing to advanced agricultural technology adoption and strong digital infrastructure in countries such as the United States and Canada. The region has high penetration of precision agriculture solutions. Strong presence of leading agri-tech companies supports innovation. Farmers actively use weather intelligence platforms for decision-making. Government support for smart farming enhances adoption. These factors ensure regional dominance.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR driven by rising agricultural modernization, increasing climate variability challenges, and growing adoption of digital farming solutions in countries such as China, India, Japan, and South Korea. Expanding internet connectivity in rural areas is improving technology access. Government initiatives are supporting smart agriculture development. Awareness of climate risks is increasing among farmers. Rapid digital transformation is accelerating adoption. These factors drive the fastest regional growth.

Key players in the market

Some of the key players in Weather Intelligence for Agriculture Market include The Weather Company, DTN, LLC, Tomorrow.io, AccuWeather, Inc., Trimble Inc., IBM Corporation, Climate LLC, Fujitsu Limited, Descartes Labs, Inc., Spire Global, Inc., Planet Labs PBC, Iteris, Inc., Hexagon AB, aWhere, Inc. and Skymet Weather Services Pvt. Ltd.

Key Developments:

In March 2026, Tomorrow.io announced a strategic technology integration with national infrastructure entities, including a direct showcase to the Philippine government regarding automated irrigation management. This partnership-led initiative utilizes the company's proprietary satellite-derived radar networks and AI-driven weather modeling to secure predictive analytics for localized crop protection, protecting critical agricultural assets against increasingly volatile monsoon patterns.

In February 2026, The Weather Company expanded its strategic B2B footprint by embedding its enterprise API infrastructure directly into global autonomous farm management platforms. This collaborative effort powers over 200 billion daily API calls

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to sync evapotranspiration and real-time weather metrics with GPS-guided field machinery, allowing commercial pivots to automatically skip irrigation cycles before predicted rains to boost water efficiency by up to 60%.

Solution Types Covered:

- Weather Forecasting Solutions
- Climate Risk Analytics Solutions
- Field Weather Monitoring Solutions
- Crop Advisory Solutions
- Other Solution Types

Components Covered:

- Software
- Hardware
- Services
- Sensors & Weather Stations
- Other Components

Technologies Covered:

- Artificial Intelligence
- Remote Sensing Technology
- Big Data Analytics
- IoT & Connected Devices

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- Cloud-Based Platforms
- Other Technologies

Applications Covered:

- Crop Planning
- Irrigation Management
- Disaster Risk Management
- Pest & Disease Forecasting
- Harvest Planning
- Other Applications

End Users Covered:

- Farmers
- Agricultural Enterprises
- Government Agricultural Agencies
- Research Organizations
- Other End Users

Regions Covered:

- North America
  - United States

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- Canada
- Mexico

Europe

- United Kingdom
- Germany
- France
- Italy
- Spain
- Netherlands
- Belgium
- Sweden
- Switzerland
- Poland
- Rest of Europe

Asia Pacific

- China
- Japan
- India
- South Korea

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- 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

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- 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

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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 Rest of the World (RoW) are also represented in the same manner as above.

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