

# Global Farm Monitoring System Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Farm Monitoring System market size is expected to reach \$ 2596 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

A Farm Monitoring System is a digital system that utilizes IoT sensors, agricultural weather stations, soil sensors, cameras, drones, satellite remote sensing, farm machinery data, AI algorithms, and cloud platforms to conduct real-time or near-real-time monitoring of the farm environment, crop growth, soil moisture, irrigation status, pests and diseases, livestock health, equipment operation, and production processes. Its core objective is to assist farm owners in transitioning from experience-based management to data-driven management, thereby increasing yields, conserving water and fertilizer, mitigating pest and disease risks, and enhancing production efficiency.

Rising water resource pressures and agricultural water costs have made the monitoring of soil moisture, evapotranspiration, rainfall, irrigation status, and crop water requirements a high-priority demand within farm monitoring systems. Arable provides data on in-field rainfall, crop water consumption, and irrigation to facilitate irrigation optimization based on actual water demand; similarly, Semios offers tools for weather, pest, and irrigation management.

Agricultural environments typically span vast areas and are characterized by limited power availability and weak network coverage; consequently, Low-Power Wide-Area Networks (LPWAN), solar power systems, edge gateways, and long-range data transmission capabilities have become critical factors for the successful implementation of such systems. Agricultural IoT solutions are commonly deployed to collect data on soil moisture, weather conditions, livestock, and equipment health; furthermore, LoRaWAN sensors are widely utilized for the real-time monitoring of soil, crop, and

meteorological conditions.

This report studies the global Farm Monitoring System demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Farm Monitoring System, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Farm Monitoring System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Farm Monitoring System total market, 2021-2032, (USD Million)

Global Farm Monitoring System total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Farm Monitoring System total market, key domestic companies, and share, (USD Million)

Global Farm Monitoring System revenue by player, revenue and market share 2021-2026, (USD Million)

Global Farm Monitoring System total market by Type, CAGR, 2021-2032, (USD Million)

Global Farm Monitoring System total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Farm Monitoring System market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include John Deere, Trimble, Bayer, CropX, Arable, Semios, Pessi Instruments, Davis Instruments, Taranis, Sentera, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Farm Monitoring System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years

2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Farm Monitoring System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Farm Monitoring System Market, Segmentation by Type:

Soil Monitoring System

Weather and Microclimate Monitoring System

Crop Growth Monitoring System

Pest and Disease Monitoring System

Livestock Monitoring System

Farm Equipment Monitoring System

Greenhouse Environment Monitoring System

Others

## Global Farm Monitoring System Market, Segmentation by Technology:

- IoT Sensor-Based Monitoring
- Weather Station-Based Monitoring
- Camera / Video-Based Monitoring
- Drone-Based Monitoring
- Satellite Remote Sensing-Based Monitoring
- Farm Machinery Data-Based Monitoring
- Multi-Source Data Fusion Monitoring
- Others

## Global Farm Monitoring System Market, Segmentation by Deployment:

- Open-Field Farm Monitoring
- Greenhouse Farm Monitoring
- Orchard and Vineyard Monitoring
- Livestock Farm Monitoring
- Aquaculture Farm Monitoring
- Smart Irrigation Monitoring
- Large-Scale Commercial Farm Monitoring
- Others

## Global Farm Monitoring System Market, Segmentation by Application:

- Precision Irrigation Management
- Crop Health and Yield Monitoring
- Pest and Disease Early Warning
- Fertilization and Nutrient Management
- Livestock Health and Behavior Management
- Farm Operation and Equipment Management
- Agricultural Research and Demonstration Farms
- Others

## Companies Profiled:

- John Deere
- Trimble
- Bayer
- CropX
- Arable
- Semios
- Pessler Instruments
- Davis Instruments
- Taranis

Sentera

Ag Leader Technology

Raven Industries

Topcon Agriculture

Netafim

DeLaval

XAG

DJI Agriculture

Kubota

NEC

Fujitsu

Hitachi

### Key Questions Answered

1. How big is the global Farm Monitoring System market?
2. What is the demand of the global Farm Monitoring System market?
3. What is the year over year growth of the global Farm Monitoring System market?
4. What is the total value of the global Farm Monitoring System market?
5. Who are the Major Players in the global Farm Monitoring System market?
6. What are the growth factors driving the market demand?

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