

# **Agricultural Water Management Market Forecasts to 2034 – Global Analysis By Solution Type (Irrigation Management Solutions, Water Storage Solutions, Drainage Management Solutions, Water Recycling Solutions and Other Solution Types), Irrigation Type, Technology, Application, End User and Geography**

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## **Abstracts**

According to Statistics MRC, the Global Agricultural Water Management Market is accounted for \$18.5 billion in 2026 and is expected to reach \$48.6 billion by 2034 growing at a CAGR of 12.8% during the forecast period. Agricultural water management refers to the planning, distribution, and efficient use of water resources in farming activities to maximize crop productivity and sustainability. This includes irrigation management, rainwater harvesting, drainage systems, soil moisture monitoring, and water conservation practices. Advanced technologies such as IoT sensors, precision irrigation, and data analytics are increasingly integrated to optimize water use and reduce wastage. Effective water management helps improve crop yields, address water scarcity challenges, and support climate-resilient agriculture. Growing concerns over freshwater availability are accelerating investment in agricultural water management solutions globally.

### **Market Dynamics:**

Driver:

Increasing agricultural water scarcity

Producers are adopting advanced irrigation and conservation systems to safeguard

yields. Governments are promoting efficient water use through subsidies and awareness programs. Agritech firms are introducing innovative solutions tailored to diverse crops and climates. Rising demand for sustainable practices is reshaping investment priorities. This growing emphasis on resource efficiency is driving the market forward.

#### Restraint:

##### High infrastructure modernization costs

Farmers often struggle to afford advanced irrigation systems and monitoring platforms. Smaller producers face challenges in accessing financing options. Maintenance and installation expenses add further burdens. Rural regions with limited infrastructure find adoption particularly difficult. This financial barrier is hindering broader market penetration.

#### Opportunity:

##### Smart irrigation technology integration

Sensor-based systems and IoT platforms allow precise water delivery, reducing waste and improving crop health. Real-time monitoring enhances decision-making and resource allocation. Manufacturers are developing affordable smart irrigation solutions for mid-sized farms. Governments are supporting pilot projects to accelerate adoption. Partnerships between technology providers and farmers are expanding reach. This innovation is fostering rapid market growth.

#### Threat:

##### Extreme drought condition impacts

Prolonged dry spells reduce the effectiveness of irrigation technologies. Farmers may hesitate to invest if systems fail during critical seasons. High costs of drought-resistant infrastructure create challenges for providers. Regional climate variability adds complexity to scaling solutions globally. Negative experiences with failed operations discourage adoption. These environmental risks are constraining consistent market expansion.

#### Covid-19 Impact:

Covid-19 had a mixed impact on the agricultural water management market. On one hand, demand rose as farmers sought resilient systems to maintain productivity during disruptions. Online platforms supported distribution of irrigation technologies. On the other hand, supply chain delays slowed equipment availability. Economic uncertainty limited investments in advanced systems. At the same time, food security concerns encouraged modernization. Overall, the pandemic acted as a catalyst, boosting awareness and long-term adoption.

The drip irrigation segment is expected to be the largest during the forecast period

The drip irrigation segment is expected to account for the largest market share during the forecast period as it delivers water directly to plant roots, ensuring efficiency and minimizing wastage in water-scarce regions. Adoption is strong among commercial farms producing high-value crops. Manufacturers are investing in durable and cost-effective drip systems. Governments are promoting drip irrigation through subsidies and awareness campaigns. Retail penetration of drip solutions is expanding in both developed and developing markets. This segment is anchoring overall market revenue growth.

The water conservation programs segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the water conservation programs segment is predicted to witness the highest growth rate due to promoting sustainable farming practices. Farmers are adopting conservation programs to improve long-term resource management. Awareness campaigns emphasize the importance of water stewardship. Governments are funding large-scale conservation projects across rural and urban regions. Partnerships with NGOs and agritech firms are expanding program reach.

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

During the forecast period, the North America region is expected to hold the largest market share owing to its advanced agricultural infrastructure, strong investment capacity, and early adoption of water-efficient technologies. The US and Canada host leading irrigation equipment manufacturers and innovators. Policy frameworks encourage sustainable farming practices. Commercial farms are increasingly deploying premium water management systems. Retail penetration of advanced solutions is widespread across the region. North America is consolidating its position as the largest

contributor.

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

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR driven by supportive government subsidies for water-efficient farming. Countries such as China, India, and Japan are investing heavily in irrigation modernization. Affordable solutions are gaining traction among mid-sized farms. Rural digitization programs are expanding access to advanced technologies. E-commerce platforms are helping distribute water management tools to remote areas. Asia Pacific is emerging as the fastest-growing region globally.

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

Some of the key players in Agricultural Water Management Market include Netafim Limited, Jain Irrigation Systems Ltd., The Toro Company, Lindsay Corporation, Valmont Industries, Inc., Rain Bird Corporation, Rivulis Irrigation Ltd., Hunter Industries, Trimble Inc., Deere & Company, Nelson Irrigation Corporation, Xylem Inc., IRRITEC S.p.A., Galcon Ltd. and WEG S.A.

### **Key Developments:**

In May 2026, Netafim Limited officially collaborated with Amazon India to launch large-scale drip irrigation projects across 120 hectares in Bengaluru and Hyderabad to save over 325 million liters of water annually. This partnership converts traditional flood irrigation into advanced precision systems for 110 independent farmers, directly supporting Amazon's commitment to becoming water positive in India by 2027 while addressing regional water scarcity.

In January 2025, Rivulis Irrigation Ltd. entered into an exclusive partnership with Cocamar, one of Brazil's largest agricultural cooperatives, to bring advanced drip irrigation to 16,600 members. This collaboration focuses on providing small and medium-sized farmers in the Parana and Mato Grosso regions with precision irrigation tools to stabilize yields against increasingly challenging weather patterns and sandy soil conditions.

Solution Types Covered:

Irrigation Management Solutions

Water Storage Solutions

Drainage Management Solutions

Water Recycling Solutions

Other Solution Types

Irrigation Types Covered:

Drip Irrigation

Sprinkler Irrigation

Surface Irrigation

Subsurface Irrigation

Other Irrigation Types

Technologies Covered:

Smart Irrigation Technology

Remote Sensing Technology

IoT-Based Water Monitoring

AI-Based Water Analytics

Other Technologies

Applications Covered:

Field Crop Irrigation

Greenhouse Water Management

Soil Moisture Optimization

Water Conservation Programs

Other Applications

End Users Covered:

Commercial Farms

Greenhouse Operators

Agricultural Cooperatives

Government Agricultural Agencies

Other End Users

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

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