

Micro-Irrigation Systems - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Micro-Irrigation Systems Market size is estimated at USD 3.80 billion in 2025, and is expected to reach USD 4.95 billion by 2030, at a CAGR of 5.4% during the forecast period (2025-2030).

Key Highlights

- The micro irrigation systems market is witnessing impressive growth. Key drivers fueling this expansion include global water scarcity, the rising adoption of fertigation practices, and robust backing from government entities worldwide.
- Notably, esteemed organizations like the World Bank are supporting and actively promoting micro-irrigation in Uganda through its Micro-scale Irrigation Program, which is part of the Uganda Intergovernmental Fiscal Transfers Program for Results (UgIFT). Precision farming, sustainable agriculture, and the urgent need for increased food production further bolster the micro irrigation systems market.
- Micro-irrigation adoption has accelerated globally, with Asia-Pacific leading the charge. Within this region, India stands out as the dominant player after China. Several Indian state governments are promoting the use of micro-irrigation. For instance, under the Andhra Pradesh Micro Irrigation Project (APMIP), the state government of Andhra Pradesh is offering a 90% subsidy on irrigation equipment (including micro irrigation) to farmers with less than five acres and 70% for those with larger holdings.
- The micro irrigation systems market is expanding, driven by the rising integration of precision agriculture, especially variable rate irrigation (VRI) technology. This trend is observable in developing and developed nations, fueled by surging food demand. VRI-based micro-irrigation systems optimize water usage, boost crop yields, and reduce input costs by leveraging sensors to monitor soil moisture and crop health. However, significant upfront costs and ongoing maintenance expenses challenge the market's growth.

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Micro-Irrigation Systems Market Trends

Open Field Cultivation Leads the Market Segment

- Current food production methods heavily depend on resources like land, water, and detergents, sparking concerns about long-term sustainability. The United Nations (UN) forecasts the global population will near 9.6 billion by 2050. In 2023, global wheat and rice production reached 788.5 million metric tons and 538.1 million metric tons, respectively. Due to consumption and production trends, a threefold increase in food output is necessary to feed the world's population adequately.
- Agriculture consumes 70% of the world's water, with most crops grown in open fields where water use is prevalent. This is crucial, as water used in agriculture directly affects its availability for drinking and other essential needs. To address water overuse in agriculture, governments and international agencies are rigorously promoting the use of micro-irrigation systems.
- The crops commonly grown in these projects include maize, sorghum, soybean, sunflower, various grains, and legumes. Additionally, large quantities of fruits, vegetables, and plantation crops are being produced in open-field cultivation. The main irrigation systems used are pivot center systems, sprinkler irrigation systems, and drip irrigation.
- Effective water resource management is crucial for improving crop water productivity in semiarid countries like Egypt and other Eastern nations. In 2023, the Water Management Research Institute at the National Water Research Center (NWRC) in Egypt conducted a study on eggplant crops. The study focused on comparing the impact of surface and subsurface drip irrigation systems, soil characteristics, water productivity, and yield indices in open field settings. The research findings highlighted the effectiveness of open-field methods in conserving water and improving productivity and yield, particularly in clay soil conditions.

Asia-Pacific is the Fastest-growing Market

- Asia-Pacific leads the micro-irrigation market, driven by fragmented agricultural ownership, robust government initiatives aimed at water conservation for its dense population, and a heightened agricultural output.
- China, a major player in Asia-Pacific, is a global leader in manufacturing components for micro-irrigation systems. This influential position is primarily attributed to the government's dedication to modernizing agricultural practices. China's ambitious five-year plans aim for significant market expansion. By 2030, 75% of its irrigated areas will adopt water-saving micro-irrigation systems.
- Indian agriculture heavily relies on the monsoon, resulting in a lower percentage of irrigated farming than many developed nations. With the increasing use of micro-irrigation techniques and various irrigation initiatives, the amount of cultivated land benefiting from reliable irrigation has risen to 52%, which equals 73 million hectares in the 2022-23 period, according to a report by the National Institute for Transforming India (NITI) Aayog.
- Apart from China and India, countries such as Japan, Vietnam, the Philippines, Bangladesh, and Pakistan significantly impact the micro-irrigation market. The popularity of micro-irrigation systems in these nations can be attributed to endorsements from various organizations and strong government support. A key incentive for small-scale farmers across the region is the system's ability to reduce water consumption while simultaneously increasing production significantly.

Micro-Irrigation Systems Industry Overview

The micro irrigation systems market is dominated by five key players holding a significant share. As governments increasingly promote water conservation through micro-irrigation systems, the market is poised for robust double-digit growth. The leading companies shaping this market landscape are Jain Irrigation Systems Limited, Netafim Limited, Lindsay Corporation, Hunter Industries, and The Toro Company.

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Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

Table of Contents:

1 INTRODUCTION

1.1 Study Assumptions and Market Definition

1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET DYNAMICS

4.1 Market Overview

4.2 Market Drivers

4.2.1 Widespread Adoption Could Alleviate Water Scarcity Issues

4.2.2 Growing Adoption of Fertigation Techniques

4.2.3 Rising Government Support

4.3 Market Restraints

4.3.1 Significant Initial Capital Requirements

4.3.2 Challenges in Implementing Due to Their Intricate Setup

4.4 Porter's Five Forces Analysis-Industry Attractiveness -

4.4.1 Bargaining Power of Suppliers

4.4.2 Bargaining Power of Buyers

4.4.3 Threat of New Entrants

4.4.4 Threat of Substitute Products and Services

4.4.5 Intensity of Competitive Rivalry

5 MARKET SEGMENTATION

5.1 Mechanism

5.1.1 Drip Irrigation System

5.1.2 Sprinkler Irrigation System

5.1.3 Other Micro-irrigation Systems

5.2 Component

5.2.1 Drip Irrigation Components

5.2.1.1 Drippers

5.2.1.2 Tubing

5.2.1.3 Valves and Filters

5.2.1.4 Pressure Regulators

5.2.1.5 Other Drip Irrigation Components

5.2.2 Sprinkler Irrigation Components

5.2.2.1 Tubing

5.2.2.2 Nozzles

5.2.2.3 Pressure Regulators

5.2.2.4 Other Sprinkler Irrigation Components

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- 5.3 Cultivation Technology
 - 5.3.1 Open Field
 - 5.3.2 Protected Cultivation
- 5.4 Application
 - 5.4.1 Field Crops
 - 5.4.2 Orchards and Vineyards
 - 5.4.3 Vegetables
 - 5.4.4 Plantation Crops
 - 5.4.5 Other Applications
- 5.5 Geography
 - 5.5.1 North America
 - 5.5.1.1 United States
 - 5.5.1.2 Canada
 - 5.5.1.3 Mexico
 - 5.5.1.4 Rest of North America
 - 5.5.2 Europe
 - 5.5.2.1 Germany
 - 5.5.2.2 United Kingdom
 - 5.5.2.3 France
 - 5.5.2.4 Spain
 - 5.5.2.5 Italy
 - 5.5.2.6 Russia
 - 5.5.2.7 Rest of Europe
 - 5.5.3 Asia-Pacific
 - 5.5.3.1 China
 - 5.5.3.2 Japan
 - 5.5.3.3 India
 - 5.5.3.4 Australia
 - 5.5.3.5 South Korea
 - 5.5.3.6 Rest of Asia-Pacific
 - 5.5.4 South America
 - 5.5.4.1 Brazil
 - 5.5.4.2 Argentina
 - 5.5.4.3 Rest of South America
 - 5.5.5 Africa
 - 5.5.5.1 South Africa
 - 5.5.5.2 Egypt
 - 5.5.5.3 Rest of Africa

6 COMPETITIVE LANDSCAPE

- 6.1 Most Adopted Strategies
- 6.2 Market Share Analysis
- 6.3 Company Profiles
 - 6.3.1 Jain Irrigation Systems Limited
 - 6.3.2 Netafim Limited
 - 6.3.3 Lindsay Corporation
 - 6.3.4 The Toro Company

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- 6.3.5 Deere & Company
- 6.3.6 Harvel Agua
- 6.3.7 Mahindra and Mahindra (EPC Irrigation Limited)
- 6.3.8 Nelson Irrigation Corporation
- 6.3.9 Rain Bird Corporation
- 6.3.10 Elgo Irrigation Ltd
- 6.3.11 Antelco Pty Ltd
- 6.3.12 Kothari Agritech Private Limited

7 MARKET OPPORTUNITIES AND FUTURE TRENDS

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