

Agriculture Sensors Market: Segmented By Application (Yield Monitoring & Mapping, Soil Monitoring, Disease Control & Detection, Irrigation & Water Management); By Offering (Hardware-Sensors, GPS, Yield Monitors, Software, Services) and Region – Global Analysis of Market Size, Share & Trends for 2019–2020 and Forecasts to 2030

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Abstracts

[176+ Pages Research Report] Global Agriculture Sensors Market to surpass USD 3.1 billion by 2030 from USD 1.3 billion in 2020 at a CAGR of 12.4 % in the coming years, i.e., 2021-30.

Product Overview

Agricultural sensors are a number of sensing technologies used in modern farming, such as precision farming, in order to provide information that helps farmers to supervise and optimize crops and to modify changing environmental factors. Agricultural sensors are called active sensors when light is transferred to the crop canopy, and the percentage of light that is reflected from the canopy to the sensor is simultaneously measured. Precision farming, also known as smart farming, allows farmers to maximize yields by minimizing resources. This is obtained through the use of agricultural sensors. These sensors help micro-defining their crops, conserving resources, and reducing impacts on the crops.

Market Highlights

Global Agriculture Sensors market is expected to project a notable CAGR of 12.4% in 2030.

The main driving forces behind the growth of Agriculture Sensors include increased

agricultural mechanisms in developing countries, rising labour costs as a result of a lack of skilled labour, increased pressure for food supplies in the world as a result of increasing population, significant savings on Agriculture sensors techniques and government initiatives to adopt advanced agricultural technology. The increasing need for optimal crop production with scarce funds gives it tremendous popularity among farmers.

Global Agriculture Sensors Market: Segments

Yield Monitoring and Mapping segment to grow with the highest CAGR during 2020-30
Global Agriculture sensors market is segmented by application into yield monitoring and mapping, soil monitoring, disease control, and detection, irrigation, and water management. Valuable data on the varying yield capacity in the field are provided by yield control technologies. Many farming facilities integrated these technologies and combined them to increase yield productivity. Technology for agricultural sensors eliminates manual efforts through the automation of critical processes, including farm surveillance in real-time and information sharing. Control & management of soil health mainly uses agricultural sensors to eliminate nutrient deprivation.

Hardware segment to grow with the highest CAGR during 2020-30

Global Agriculture sensors is divided by offering into Hardware-Sensors, GPS, Yield Monitors; Software; Services. Due to the high use of automation and control instruments—drones/UAVs, GPS/GNSS, drainage controllers, guidance and traction control, yield monitoring,, and sensor control, the hardware was the fastest-growing share in 2020. The increasing use of new technologies and advanced equipment for Smart agriculture is anticipated to lead to the development in the hardware Smart agriculture market. The precise agricultural market for services is anticipated to boost at the highest CAGR during the forecast period, increasing demand for managed services contributes positively to the success of the market in Smart agricultural services.

Market Dynamics

Drivers

Penetration of technologies such as VRT and guidance.

Increases in productivity and decline of overhead labor have been caused by the use of technology such as VRT, remote sensing, GPS, GIS,, and guidance technology in Smart farms. The use of state-of-the-art agricultural equipment based on devices has helped the best utilization of resources. Smart agricultural equipment based on state-of-the-art technology not only contributes to the basic savings by lowering the labor cost but also significantly enhances farm operations.

Increase in overall productivity

The exhaustion of natural resources and environmental deterioration are some of the factors that limit cultivation. Growing environmental concerns encourage farmers to focus on sustainable farming practices, like natural resource conservation. This has led to the need to improve the nutrition and protection of crops and to enhance the Agriculture sensors market. Multiple growth opportunities have been developed through technological innovations such as vertical farms with intelligent designs to maximize yields and cut waste.

Restraint

Lack of technological know-how

The factors such as the dearth of a skilled workforce and the lack of standards and protocols are hampering the market growth. Furthermore, farmers may use several sensors based on different software and hardware to collect farm-related data. Thus, complex integrated systems of agricultural sensors hinder the growth of the market.

Global Agriculture Sensors Market: Key Players

American Sensor Technologies, Inc.

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

Automata, Inc., (U.S.)

Avir Sensors, (U.S.)

BioForce Nanosciences Holdings, Inc., (U.S.)

Coastal Environmental Systems, Inc., (U.S.)

E.S.I. Environmental Sensors Inc., (Canada)

Measurement Specialties Inc., (U.S.)

MEMSIC Inc., (U.S.)

Meridian Environmental Technology, Inc., (U.S.)

STMicroelectronics N.V., (Switzerland)

Sutron Corporation, (U.S.)

The Toro Company, (U.S.)

Other Prominent Players

Global Agriculture Sensors Market: Regions

Global Agriculture sensors market is segmented based on regional analysis into five major regions. These include North America, Latin America, Europe, Asia Pacific and the Middle East,, and Africa. Global Agriculture sensors in North America held the

largest market share of XX.X% in the year 2020. In 2020, America accounted for the greatest share of the agricultural Smart market. Countries like the United States and Canada in America are the first to implement Smart agriculture technologies, which is a key reason for this region's significant proportion of the Smart agricultural market. Agricultural systems and equipment in the region, like steering systems, guided systems, sensors, display devices,, and farm management software, are widely adopted by farmers. Increasing use in various agricultural applications of technological advancements, reducing labor levels, consolidating farms, increasing population, and the increasing demand for high productivity from current farming areas are some other factors driving growth in the American Agriculture sensors market.

Global Agriculture sensors is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada

Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil,, and Rest of Latin America

Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey,, and Rest of Europe

Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia,, and Rest of APAC

Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa, and Rest of MENA

Global Agriculture Sensors Market report also contains analysis on:

Agriculture Sensors Market Segments:

By Technology Type

Yield monitoring and mapping

Soil monitoring

Disease control & detection

Irrigation

Water management

By Offerings

Hardware-Sensors

GPS

Yield Monitors

Software

Services

Agriculture Sensors Market Dynamics

Agriculture Sensors Market Size
Supply & Demand
Current Trends/Issues/Challenges
Competition & Companies Involved in the Market
Value Chain of the Market
Market Drivers and Restraints
Agriculture Sensors Market Report Scope and Segmentation

Frequently Asked Questions

How big is the Agriculture Sensors market?
What is the Agriculture Sensors market growth?
Which segment accounted for the largest Agriculture Sensors market share?
Who are the key players in the Agriculture Sensors market?
What are the factors driving the Agriculture Sensors market?

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- 6. E.S.I. ENVIRONMENTAL SENSORS INC., (CANADA)**
- 7. MEASUREMENT SPECIALTIES INC., (U.S.)**
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Consultant Recommendation

**The above-given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.

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