

Soil Monitoring Market by Offering (Hardware, Software, Services), System Type (Sensing & Imagery, Ground-based Sensing, Robotic & Telematics), Application (Agricultural, Non-agricultural) and Region - Global Forecast to 2027

<https://marketpublishers.com/r/S13E0B63FF6EN.html>

Date: October 2022

Pages: 229

Price: US\$ 4,950.00 (Single User License)

ID: S13E0B63FF6EN

Abstracts

The soil monitoring market is estimated to be worth USD 551 million in 2022 and is projected to reach USD 1,088 million by 2027, at a CAGR of 14.6%. The soil monitoring market is expected to grow exponentially owing to factors such as efforts of governments and companies to promote sustainable agriculture practices, need to preserve soil quality, stringent government regulations pertaining to ecological stability, and growing need for farm productivity improvement.

The soil monitoring market is at a promising stage and is expected to see strong growth during the forecast period. The low technical know-how of ground-based monitoring systems has led to the wider adoption of several soil monitoring sensors. Moreover, using various IoT-based devices and several niche offerings provided by companies for soil monitoring has led to the development of telematics and remote monitoring.

“The market for sensing & imagery systems is estimated to grow at the highest CAGR during the forecast period.”

The market for sensing and imagery will witness strong growth as the use of satellite imagery, drones, manned aircraft, or aerial imagery is more prominent in agricultural applications of soil monitoring; these imaging systems gather raw data pertaining to soil. Multispectral and hyperspectral sensors are usually mounted on these airborne vehicles. Remote sensing technology is an economical technique for mapping and monitoring crop and soil variability. Remote sensing imagery helps in pasturing the

growth rate, mapping soil variations, monitoring field variability, detecting pest-infected or diseased plants, enhancing crop input, etc. Sensing and imagery systems become complicated in the case of data mapping as they require instrument calibration, atmospheric correction, cloud screening of data, and image processing.

“The market for hardware is estimated to account for the largest share between 2022 and 2027.”

The soil monitoring market for hardware is expected to flourish at a significant growth rate and is estimated to hold the dominant position during the forecast period. Hardware components, sensors, devices, and equipment are increasingly adopted in agricultural and non-agricultural applications. The integration of various sensors into remote monitoring solutions owing to the reduced cost of these sensors has resulted in the largest market share of the hardware segment.

“The market for non-agricultural application is estimated to grow at the highest CAGR from 2022 to 2027.”

The soil monitoring market for the non-agricultural application is expected to grow at the highest CAGR during the forecast period. The use of several sensors, soil scanners, and devices for soil monitoring purposes for the non-agricultural application has been on the rise. Weather forecasting, flood and drought management, sports turf management, landscaping, and ground care use soil monitoring sensors to optimize their operations.

“Soil monitoring market in the APAC region is expected to witness robust growth during 2022-2027.”

The surging investments in the ag-tech sector in APAC, increasing penetration of ground-based monitoring systems as well as sensing and imagery systems are some of the major factors for the fast growth of the soil monitoring market. The region has promising growth prospects in the soil monitoring market owing to the presence of various international and domestic players in the field of soil monitoring in countries such as India, China, Japan, and Australia. Other factors contributing to the growth of the soil monitoring market in the APAC region include strong government support to digitalize agriculture, rising concerns to boost productivity, and integration of advanced systems with various equipment.

Break-up of Primaries

By Company Type: Tier 1 – 20%, Tier 2 – 45%, and Tier 3 – 35%

By Designation: C-Level Executives – 35%, Directors – 25%, and Others – 40%

By Region: Americas– 45%, Europe – 25%, APAC – 20%, and RoW – 10%

The major players in the soil monitoring market include Stevens Water Monitoring Systems (US), SGS Group (Switzerland), METER Group (US), Element Material Technology (UK), The Toro Company (US), Campbell Scientific (US), Sentek Technologies (Australia), Spectrum Technologies (US), Irrrometer (US), and CropX Technologies (Israel).

Research Coverage

The report segments the soil monitoring market and forecasts its size, by volume and value, based on offering (hardware, software, and services), system type (sensing and imagery systems, ground-based monitoring systems, others (robotics and telematics systems)), application (agricultural and non-agricultural), and region (Americas, Europe, APAC, and RoW).

The report also provides a comprehensive review of market drivers, restraints, opportunities, and challenges in the soil monitoring market. It covers the qualitative aspects in addition to the quantitative ones.

Reasons to buy this report

To get a comprehensive overview of the soil monitoring market

To gain wide-ranging information about the top players in this industry, their product portfolio details, and the key strategies adopted by them

To gain insights about the major countries/regions in which the soil monitoring market is flourishing

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 DEFINITION AND SCOPE

1.2.1 INCLUSIONS AND EXCLUSIONS

1.2.1.1 Inclusions and exclusions, by offering segment

1.2.1.2 Inclusions and exclusions, by application, system type, and geography segment

1.3 STUDY SCOPE

1.3.1 MARKETS COVERED

1.3.2 GEOGRAPHIC SCOPE

1.3.3 YEARS CONSIDERED

1.4 CURRENCY

1.5 STAKEHOLDERS

1.6 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 1 RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.1.1 Secondary sources

2.1.1.2 List of major secondary sources

2.1.2 PRIMARY DATA

2.1.2.1 Key data from primary sources

2.1.2.2 Breakdown of primaries

2.1.3 PRIMARY AND SECONDARY RESEARCH

2.2 MARKET SIZE ESTIMATION

2.2.1 BOTTOM-UP APPROACH

2.2.1.1 Approach for capturing market size by bottom-up analysis (demand side)

FIGURE 2 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.2.2 TOP-DOWN APPROACH

2.2.2.1 Approach for capturing market size by top-down analysis (supply side)

FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

FIGURE 4 MARKET SIZE ESTIMATION: DEMAND-SIDE APPROACH

FIGURE 5 MARKET SIZE ESTIMATION: SUPPLY-SIDE APPROACH

2.3 DATA TRIANGULATION

FIGURE 6 DATA TRIANGULATION

2.4 ASSUMPTIONS

FIGURE 7 SOIL MONITORING MARKET FORECAST AND GROWTH ASSUMPTION

TABLE 1 GLOBAL ECONOMY AND GROWTH OUTLOOK ASSUMPTIONS

3 EXECUTIVE SUMMARY

FIGURE 8 SOFTWARE SEGMENT TO GROW AT HIGHEST CAGR FROM 2022 TO 2027

FIGURE 9 SENSORS TO ACCOUNT FOR LARGEST MARKET SHARE IN 2022

FIGURE 10 SENSING & IMAGERY SYSTEMS TO GROW AT HIGHEST CAGR FROM 2022 TO 2027

FIGURE 11 AGRICULTURAL APPLICATION TO HOLD LARGER MARKET SHARE IN 2022

FIGURE 12 AMERICAS HELD LARGEST MARKET SHARE IN 2021

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN SOIL MONITORING MARKET

FIGURE 13 SURGING DEMAND FOR AGRICULTURAL PRODUCTS DUE TO INCREASING GLOBAL POPULATION

4.2 SOIL MONITORING MARKET IN ASIA PACIFIC, BY SYSTEM TYPE AND COUNTRY

FIGURE 14 AUSTRALIA & GROUND-BASED MONITORING SYSTEMS HELD LARGEST SHARE OF SOIL MONITORING MARKET IN ASIA PACIFIC IN 2021

4.3 SOIL MONITORING MARKET, BY OFFERING

FIGURE 15 HARDWARE SEGMENT TO HOLD LARGEST MARKET FROM 2022 TO 2027

4.4 SOIL MONITORING MARKET, BY HARDWARE

FIGURE 16 SENSORS TO HOLD LARGEST MARKET SHARE FROM 2022 TO 2027

4.5 SOIL MONITORING MARKET, BY APPLICATION

FIGURE 17 AGRICULTURAL APPLICATION TO ACCOUNT FOR LARGER MARKET SIZE IN 2022

4.6 GEOGRAPHIC ANALYSIS OF SOIL MONITORING MARKET

FIGURE 18 CHINA TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 19 SUSTAINABLE AGRICULTURAL PRACTICES TO DRIVE MARKET GROWTH

5.2.1 DRIVERS

5.2.1.1 Efforts of governments and companies to promote sustainable agriculture practices

TABLE 2 SUSTAINABLE AGRICULTURE SCORE OF MAJOR COUNTRIES (ON A SCALE OF 100)

5.2.1.2 Need to preserve soil quality

5.2.1.3 Stringent government regulations pertaining to ecological stability

5.2.1.4 Growing need to improve farm productivity

FIGURE 20 PROJECTED WORLD POPULATION TILL 2100

FIGURE 21 IMPACT ANALYSIS: DRIVERS

5.2.2 RESTRAINTS

5.2.2.1 Difficulties in monitoring due to spatial variability of soil

5.2.2.2 Poor reliability and high costs associated with soil monitoring sensors

FIGURE 22 IMPACT ANALYSIS: RESTRAINTS

5.2.2.3 Low adoption of modern agricultural technologies

5.2.3 OPPORTUNITIES

5.2.3.1 Integration of advanced technologies like IoT and data analytics to promote smart agriculture

5.2.3.2 Huge government spending on agriculture

5.2.3.3 Digitalization of agriculture and adoption of advanced farming techniques post-COVID-19

FIGURE 23 IMPACT ANALYSIS: OPPORTUNITIES

5.2.4 CHALLENGES

5.2.4.1 Lack of awareness and technical skills

FIGURE 24 IMPACT ANALYSIS: CHALLENGES

6 INDUSTRY TRENDS

6.1 INTRODUCTION

6.2 MAJOR TRENDS IN SOIL MONITORING MARKET

6.2.1 ADOPTION OF IOT DEVICES AND DEVELOPMENT OF CONNECTED ENVIRONMENT

6.2.2 EVOLVING WIRELESS MONITORING SYSTEMS

6.2.3 DEVELOPMENT OF SMART SENSORS

6.3 VALUE CHAIN ANALYSIS

FIGURE 25 VALUE CHAIN ANALYSIS: MAJOR VALUE ADDED BY ORIGINAL

EQUIPMENT MANUFACTURERS AND SYSTEM INTEGRATORS

6.4 TECHNOLOGY ANALYSIS

6.4.1 SOIL SENSOR TECHNOLOGIES

FIGURE 26 ADOPTION OF SOIL SENSOR TECHNOLOGIES IN 2021

6.5 AVERAGE SELLING PRICE (ASP) ANALYSIS

FIGURE 27 VOLUMETRIC SOIL MOISTURE SENSORS (AVERAGE SELLING PRICE)

FIGURE 28 WATER POTENTIAL SOIL MOISTURE SENSORS (AVERAGE SELLING PRICE)

TABLE 3 AVERAGE SELLING PRICE OF SOIL SENSORS FOR MAJOR COMPANIES

6.6 CASE STUDIES: SOIL MONITORING MARKET

6.6.1 CASE STUDY 1: SENTEK TECHNOLOGIES

6.6.2 CASE STUDY 2: CAMPBELL SCIENTIFIC

6.7 ECOSYSTEM MARKET MAP

TABLE 4 SOIL MONITORING MARKET: ECOSYSTEM

6.8 PATENT ANALYSIS

FIGURE 29 PATENTS GRANTED FOR SOIL MONITORING MARKET, 2011-2021

FIGURE 30 REGIONAL ANALYSIS OF PATENTS GRANTED FOR SOIL MONITORING MARKET, 2011-2021

TABLE 5 KEY PATENTS PERTAINING TO SOIL MONITORING MARKET, 2021

6.9 KEY CONFERENCES & EVENTS, 2022-2023

TABLE 6 SOIL MONITORING MARKET: DETAILED LIST OF CONFERENCES & EVENTS, 2022-2023

7 SOIL MONITORING MARKET, BY SYSTEM TYPE

7.1 INTRODUCTION

TABLE 7 SOIL MONITORING MARKET, BY SYSTEM TYPE, 2019–2021 (USD MILLION)

FIGURE 31 SENSING & IMAGERY SYSTEMS SEGMENT TO HOLD HIGHEST GROWTH RATE DURING FORECAST PERIOD

TABLE 8 SOIL MONITORING MARKET, BY SYSTEM TYPE, 2022–2027 (USD MILLION)

7.2 SENSING & IMAGERY SYSTEMS

TABLE 9 SENSING & IMAGERY SYSTEMS: SOIL MONITORING MARKET, BY TYPE, 2019–2021 (USD MILLION)

TABLE 10 SENSING & IMAGERY SYSTEMS: SOIL MONITORING MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 11 SENSING & IMAGERY SYSTEMS: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

FIGURE 32 SOFTWARE SEGMENT TO REGISTER HIGHEST CAGR

TABLE 12 SENSING & IMAGERY SYSTEMS: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

TABLE 13 SENSING & IMAGERY SYSTEMS: SOIL MONITORING MARKET, BY REGION, 2019–2021 (USD MILLION)

TABLE 14 SENSING & IMAGERY SYSTEMS: SOIL MONITORING MARKET, BY REGION, 2022–2027 (USD MILLION)

7.2.1 SATELLITE-BASED SOIL MONITORING

7.2.1.1 Satellite-based soil monitoring for agricultural applications

7.2.2 MANNED AIRCRAFT/ AERIAL PHOTOGRAPHY-BASED SOIL MONITORING

7.2.2.1 Utilization of aerial photography by large farms

7.2.3 DRONE-BASED SOIL MONITORING

7.2.3.1 Increasing adoption of drone-based soil monitoring

7.3 GROUND-BASED MONITORING SYSTEMS

7.3.1 DOES NOT REQUIRE STRONG TECHNICAL KNOWLEDGE

TABLE 15 GROUND-BASED MONITORING SYSTEMS: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

FIGURE 33 SOFTWARE SEGMENT EXPECTED TO HOLD HIGHEST CAGR DURING FORECAST PERIOD

TABLE 16 GROUND-BASED MONITORING SYSTEMS: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

TABLE 17 GROUND-BASED MONITORING SYSTEMS: SOIL MONITORING MARKET, BY REGION, 2019–2021 (USD MILLION)

TABLE 18 GROUND-BASED MONITORING SYSTEMS: SOIL MONITORING MARKET, BY REGION, 2022–2027 (USD MILLION)

7.4 OTHERS (TELEMATICS & ROBOTICS)

TABLE 19 OTHERS: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 20 OTHERS: SOIL MONITORING MARKET, BY OFFERING 2022–2027 (USD MILLION)

TABLE 21 OTHERS: SOIL MONITORING MARKET, BY REGION, 2019–2021 (USD MILLION)

FIGURE 34 ASIA PACIFIC IS EXPECTED TO HOLD HIGHEST CAGR

TABLE 22 OTHERS: SOIL MONITORING MARKET, BY REGION, 2022–2027 (USD MILLION)

8 SOIL MONITORING MARKET, BY OFFERING

8.1 INTRODUCTION

TABLE 23 SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

FIGURE 35 SOFTWARE TO EXHIBIT HIGHEST CAGR

TABLE 24 SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

8.2 HARDWARE

TABLE 25 HARDWARE: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 26 HARDWARE: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

TABLE 27 HARDWARE: SOIL MONITORING MARKET, BY APPLICATION, 2019–2021 (USD MILLION)

FIGURE 36 AGRICULTURAL APPLICATIONS TO HOLD LARGER MARKET SHARE IN 2027

TABLE 28 HARDWARE: SOIL MONITORING MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 29 HARDWARE: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2019–2021 (USD MILLION)

TABLE 30 HARDWARE: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2022–2027 (USD MILLION)

TABLE 31 HARDWARE: SOIL MONITORING MARKET, BY REGION, 2019–2021 (USD MILLION)

FIGURE 37 ASIA PACIFIC TO REGISTER HIGHEST CAGR

TABLE 32 HARDWARE: SOIL MONITORING MARKET, BY REGION, 2022–2027 (USD MILLION)

8.2.1 SENSORS

TABLE 33 SENSORS: SOIL MONITORING MARKET, BY TYPE, 2019–2021 (USD MILLION)

TABLE 34 SENSORS: SOIL MONITORING MARKET, BY TYPE, 2022–2027 (USD MILLION)

8.2.1.1 Volumetric soil moisture sensors

TABLE 35 VOLUMETRIC SOIL MOISTURE SENSORS: SOIL MONITORING MARKET, BY TYPE, 2019–2021 (USD MILLION)

FIGURE 38 TDT SENSORS HELD LARGEST MARKET SIZE IN 2021

TABLE 36 VOLUMETRIC SOIL MOISTURE SENSORS: SOIL MONITORING MARKET, BY TYPE, 2022–2027 (USD MILLION)

8.2.1.1.1 Neutron probes

8.2.1.1.1.1 Neutron probes offer accurate readings when calibrated properly

8.2.1.1.2 Capacitance sensors

8.2.1.1.2.1 Capacitance sensor account for second-largest share

8.2.1.1.3 Time-domain transmissometry sensors

8.2.1.1.3.1 Dominance of time-domain transmissometry sensors

8.2.1.2 Soil water potential sensors

TABLE 37 SOIL WATER POTENTIAL SENSORS: SOIL MONITORING MARKET, BY TYPE, 2019–2021 (USD MILLION)

TABLE 38 SOIL WATER POTENTIAL SENSORS: SOIL MONITORING MARKET, BY TYPE, 2022–2027 (USD MILLION)

8.2.1.2.1 Tensiometers

8.2.1.2.1.1 Used in measuring soil water content

8.2.1.2.2 Gypsum blocks

8.2.1.2.2.1 Increased demand for gypsum blocks

8.2.1.2.3 Granular matrix sensors

8.2.1.2.3.1 Capability to capture data on soil moisture

8.2.1.3 Others

TABLE 39 OTHER SENSORS: SOIL MONITORING MARKET, BY TYPE, 2019–2021 (USD MILLION)

FIGURE 39 CLIMATE SENSORS TO GROW AT HIGHEST CAGR

TABLE 40 OTHER SENSORS: SOIL MONITORING MARKET, BY TYPE, 2022–2027 (USD MILLION)

8.2.1.3.1 Temperature sensors

8.2.1.3.1.1 Monitoring soil temperature to boost farm productivity

8.2.1.3.2 pH sensors

8.2.1.3.2.1 Enable better nutrient absorption to enhance plant growth

8.2.1.3.3 Nutrient sensors

8.2.1.3.3.1 Nutrient measurement aids in better input management

8.2.1.3.4 Climate sensors

8.2.1.3.4.1 Global climate change prompts growers to deploy climate sensors

8.2.1.3.5 Salinity sensors

8.2.1.3.5.1 Prevent soil erosion and land degradation

8.2.2 SMART IMAGING SYSTEMS

8.2.2.1 Increased demand for hyperspectral camera systems

8.2.3 DATA LOGGERS AND TELEMETRY SYSTEMS

8.2.3.1 Escalated demand for telematics devices

8.2.4 PORTABLE SOIL SCANNERS

8.2.4.1 Flexibility and mobility to use on targeted sites

8.2.5 OTHERS

8.3 SOFTWARE

TABLE 41 SOFTWARE: SOIL MONITORING MARKET, BY DEPLOYMENT TYPE, 2019–2021 (USD MILLION)

FIGURE 40 ON-PREMISES SOFTWARE TO ACCOUNT FOR LARGER MARKET

SHARE DURING FORECAST PERIOD

TABLE 42 SOFTWARE: SOIL MONITORING MARKET, BY DEPLOYMENT TYPE, 2022–2027 (USD MILLION)

TABLE 43 SOFTWARE: SOIL MONITORING MARKET, BY APPLICATION, 2019–2021 (USD MILLION)

TABLE 44 SOFTWARE: SOIL MONITORING MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 45 SOFTWARE: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2019–2021 (USD MILLION)

TABLE 46 SOFTWARE: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2022–2027 (USD MILLION)

TABLE 47 SOFTWARE: SOIL MONITORING MARKET, BY REGION, 2019–2021 (USD MILLION)

FIGURE 41 ASIA PACIFIC TO WITNESS TREMENDOUS GROWTH DURING FORECAST PERIOD

TABLE 48 SOFTWARE: SOIL MONITORING MARKET, BY REGION, 2022–2027 (USD MILLION)

8.3.1 ON-PREMISES

8.3.1.1 Allow growers to store data locally securely

8.3.2 CLOUD-BASED

8.3.2.1 Provides remote access to field information

8.3.2.2 Software-as-a-service (SaaS)

8.3.2.3 Platform-as-a-service (PaaS)

8.4 SERVICES

TABLE 49 SERVICES: SOIL MONITORING MARKET, BY TYPE, 2019–2021 (USD MILLION)

TABLE 50 SERVICES: SOIL MONITORING MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 51 SERVICES: SOIL MONITORING MARKET, BY APPLICATION, 2019–2021 (USD MILLION)

TABLE 52 SERVICES: SOIL MONITORING MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 53 SERVICES: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2019–2021 (USD MILLION)

FIGURE 42 GROUND-BASED MONITORING SYSTEMS TO HOLD LARGEST MARKET SHARE IN 2027

TABLE 54 SERVICES: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2022–2027 (USD MILLION)

TABLE 55 SERVICES: SOIL MONITORING MARKET, BY REGION, 2019–2021 (USD

MILLION)

TABLE 56 SERVICES: SOIL MONITORING MARKET, BY REGION, 2022–2027 (USD MILLION)

8.4.1 SYSTEM INTEGRATION AND CONSULTING SERVICES

8.4.1.1 System integration and consulting services hold major share in market

8.4.2 MANAGED SERVICES

8.4.2.1 Farm operation services

8.4.2.1.1 Demand for farm operation service in soil monitoring market

8.4.2.2 Data services

8.4.2.2.1 Data-driven farming has created significant demand for data services

8.4.2.3 Analytics services

8.4.2.3.1 Need to interpret data to meet growing demand for analytics services

8.4.3 CONNECTIVITY SERVICES

8.4.3.1 High demand for connected farming tools

8.4.4 ASSISTED PROFESSIONAL SERVICES

8.4.4.1 Supply chain management services

8.4.4.1.1 Concerns to ensure food security to fuel demand

8.4.4.2 Climate information services

8.4.4.2.1 Need for sustainable agriculture to boost demand for climate information services

9 SOIL MONITORING MARKET, BY APPLICATION

9.1 INTRODUCTION

TABLE 57 SOIL MONITORING MARKET, BY APPLICATION, 2019–2021 (USD MILLION)

FIGURE 43 NON-AGRICULTURAL APPLICATION TO GROW AT HIGHER CAGR

TABLE 58 SOIL MONITORING MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

9.2 AGRICULTURAL

TABLE 59 AGRICULTURAL APPLICATION: SOIL MONITORING MARKET, BY TYPE 2019–2021 (USD MILLION)

TABLE 60 AGRICULTURAL APPLICATION: SOIL MONITORING MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 61 AGRICULTURAL APPLICATION: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2019–2021 (USD MILLION)

TABLE 62 AGRICULTURAL APPLICATION: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2022–2027 (USD MILLION)

TABLE 63 AGRICULTURAL APPLICATION: SOIL MONITORING MARKET, BY

REGION, 2019–2021 (USD MILLION)

FIGURE 44 AMERICAS TO DOMINATE MARKET DURING FORECAST PERIOD

TABLE 64 AGRICULTURAL APPLICATION: SOIL MONITORING MARKET, BY REGION, 2022–2027 (USD MILLION)

9.2.1 FIELD CROPS (OPEN-FIELD FARMING AND ROW CROPS)

9.2.1.1 High adoption of soil monitoring sensors in field crops

TABLE 65 FIELD CROPS: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2019–2021 (USD MILLION)

TABLE 66 FIELD CROPS: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2022–2027 (USD MILLION)

9.2.2 SMART GREENHOUSE & HORTICULTURE

9.2.2.1 Crucial role of soil sensors in smart greenhouses

TABLE 67 SMART GREENHOUSE & HORTICULTURE: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2019–2021 (USD MILLION)

FIGURE 45 GROUND-BASED MONITORING SYSTEMS TO DOMINATE MARKET DURING FORECAST PERIOD

TABLE 68 SMART GREENHOUSE & HORTICULTURE: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2022–2027 (USD MILLION)

9.2.3 VERTICAL FARMS

9.2.3.1 Adoption of advanced smart sensors in vertical farms

9.2.4 OTHERS (FLORICULTURE, ORCHARDS, AND CANNABIS/HEMP)

TABLE 69 OTHER AGRICULTURAL APPLICATION: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2019–2021 (USD MILLION)

TABLE 70 OTHER AGRICULTURAL APPLICATION: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2022–2027 (USD MILLION)

9.3 NON-AGRICULTURAL

TABLE 71 NON-AGRICULTURAL APPLICATION: SOIL MONITORING MARKET, BY TYPE, 2019–2021 (USD MILLION)

FIGURE 46 SPORTS TURF MANAGEMENT TO WITNESS HIGHEST GROWTH RATE DURING FORECAST PERIOD

TABLE 72 NON-AGRICULTURAL APPLICATION: SOIL MONITORING MARKET, BY TYPE, 2022–2027 (USD MILLION)

TABLE 73 NON-AGRICULTURAL APPLICATION: SOIL MONITORING MARKET, BY REGION, 2019–2021 (USD MILLION)

TABLE 74 NON-AGRICULTURAL APPLICATION: SOIL MONITORING MARKET, BY REGION, 2022–2027 (USD MILLION)

9.3.1 RESIDENTIAL

9.3.1.1 Expanding residential infrastructure has resulted in heightened demand for soil monitoring

9.3.2 LANDSCAPING AND GROUND CARE

9.3.2.1 Landscaping and ground care in sloping terrains generate substantial demand for soil monitoring

9.3.3 SPORTS TURF

9.3.3.1 Soil monitoring in sports turf management help to optimize irrigation of sport turfs

9.3.4 FORESTRY

9.3.4.1 Adoption of soil monitoring to protect forests

9.3.5 CONSTRUCTION AND MINING

9.3.5.1 Demand for construction and mining verticals for soil monitoring during forecast period

9.3.6 WEATHER FORECASTING

9.3.6.1 Implementation of soil monitoring to reduce soil erosion

TABLE 75 WEATHER FORECASTING: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2019–2021 (USD MILLION)

TABLE 76 WEATHER FORECASTING: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2022–2027 (USD MILLION)

9.3.7 OTHERS

TABLE 77 OTHER NON-AGRICULTURAL APPLICATION: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2019–2021 (USD MILLION)

FIGURE 47 GROUND-BASED MONITORING SEGMENT TO GROW AT HIGHER CAGR DURING FORECAST PERIOD

TABLE 78 OTHER NON-AGRICULTURAL APPLICATION: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2022–2027 (USD MILLION)

10 SOIL MONITORING MARKET, BY GEOGRAPHY

10.1 INTRODUCTION

FIGURE 48 GEOGRAPHIC SNAPSHOT: GLOBAL COUNTRY-LEVEL SOIL MONITORING MARKET

TABLE 79 SOIL MONITORING MARKET, BY REGION, 2019–2021 (USD MILLION)

TABLE 80 SOIL MONITORING MARKET, BY REGION, 2022–2027 (USD MILLION)

10.2 AMERICAS

TABLE 81 AMERICAS: SOIL MONITORING MARKET, BY APPLICATION, 2019–2021 (USD MILLION)

TABLE 82 AMERICAS: SOIL MONITORING MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 83 AMERICAS: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2019–2021 (USD MILLION)

TABLE 84 AMERICAS: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2022–2027 (USD MILLION)

TABLE 85 AMERICAS: SOIL MONITORING MARKET, BY REGION, 2019–2021 (USD MILLION)

FIGURE 49 NORTH AMERICA TO HOLD MAJOR SHARE DURING FORECAST PERIOD

TABLE 86 AMERICAS: SOIL MONITORING MARKET, BY REGION, 2022–2027 (USD MILLION)

TABLE 87 AMERICAS: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 88 AMERICAS: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

10.2.1 NORTH AMERICA

TABLE 89 NORTH AMERICA: SOIL MONITORING MARKET, BY APPLICATION, 2019–2021 (USD MILLION)

TABLE 90 NORTH AMERICA: SOIL MONITORING MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 91 NORTH AMERICA: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2019–2021 (USD MILLION)

FIGURE 50 SENSING & IMAGERY SYSTEMS TO WITNESS HIGHEST CAGR DURING FORECAST PERIOD

TABLE 92 NORTH AMERICA: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2022–2027 (USD MILLION)

TABLE 93 NORTH AMERICA: SOIL MONITORING MARKET, BY COUNTRY, 2019–2021 (USD MILLION)

TABLE 94 NORTH AMERICA: SOIL MONITORING MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

TABLE 95 NORTH AMERICA: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 96 NORTH AMERICA: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

10.2.1.1 US

10.2.1.1.1 Early adopter of soil monitoring technology

TABLE 97 US: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 98 US: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

10.2.1.2 Canada

10.2.1.2.1 Availability of large-sized and favorable government policies to propel

growth

TABLE 99 CANADA: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 100 CANADA: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

10.2.1.3 Mexico

10.2.1.3.1 Country to witness growth in soil monitoring technologies

TABLE 101 MEXICO: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 102 MEXICO: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

10.2.2 SOUTH AMERICA

TABLE 103 SOUTH AMERICA: SOIL MONITORING MARKET, BY APPLICATION, 2019–2021 (USD MILLION)

FIGURE 51 NON-AGRICULTURAL SEGMENT TO WITNESS HIGHER CAGR

TABLE 104 SOUTH AMERICA: SOIL MONITORING MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 105 SOUTH AMERICA: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2019–2021 (USD MILLION)

TABLE 106 SOUTH AMERICA: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2022–2027 (USD MILLION)

TABLE 107 SOUTH AMERICA: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 108 SOUTH AMERICA: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

TABLE 109 SOUTH AMERICA: SOIL MONITORING MARKET, BY COUNTRY, 2019–2021 (USD MILLION)

TABLE 110 SOUTH AMERICA: SOIL MONITORING MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

10.2.2.1 Brazil

10.2.2.1.1 Large farm size to surge adoption of soil monitoring technology

TABLE 111 BRAZIL: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 112 BRAZIL: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

10.2.2.2 Argentina

10.2.2.2.1 Increasing focus toward data-driven farming to boost demand for soil monitoring technology

TABLE 113 ARGENTINA: SOIL MONITORING MARKET, BY OFFERING, 2019–2021

(USD MILLION)

TABLE 114 ARGENTINA: SOIL MONITORING MARKET, BY OFFERING, 2022–2027

(USD MILLION)

10.2.2.3 Rest of South America

10.3 EUROPE

FIGURE 52 SNAPSHOT: SOIL MONITORING MARKET IN EUROPE

TABLE 115 EUROPE: SOIL MONITORING MARKET, BY APPLICATION, 2019–2021

(USD MILLION)

FIGURE 53 AGRICULTURAL APPLICATION TO DOMINATE MARKET DURING FORECAST PERIOD

TABLE 116 EUROPE: SOIL MONITORING MARKET, BY APPLICATION, 2022–2027

(USD MILLION)

TABLE 117 EUROPE: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2019–2021

(USD MILLION)

TABLE 118 EUROPE: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2022–2027

(USD MILLION)

TABLE 119 EUROPE: SOIL MONITORING MARKET, BY OFFERING, 2019–2021

(USD MILLION)

TABLE 120 EUROPE: SOIL MONITORING MARKET, BY OFFERING, 2022–2027

(USD MILLION)

TABLE 121 EUROPE: SOIL MONITORING MARKET, BY COUNTRY, 2019–2021

(USD MILLION)

FIGURE 54 UK TO EXHIBIT HIGHEST CAGR

TABLE 122 EUROPE: SOIL MONITORING MARKET, BY COUNTRY, 2022–2027

(USD MILLION)

10.3.1 FRANCE

10.3.1.1 Increasing adoption of modern agriculture techniques to drive market growth

TABLE 123 FRANCE: SOIL MONITORING MARKET, BY OFFERING, 2019–2021

(USD MILLION)

TABLE 124 FRANCE: SOIL MONITORING MARKET, BY OFFERING, 2022–2027

(USD MILLION)

10.3.2 GERMANY

10.3.2.1 Germany among early adopter of soil monitoring technology

TABLE 125 GERMANY: SOIL MONITORING MARKET, BY OFFERING, 2019–2021

(USD MILLION)

TABLE 126 GERMANY: SOIL MONITORING MARKET, BY OFFERING, 2022–2027

(USD MILLION)

10.3.3 UK

10.3.3.1 Strong commercial support for adoption of precision farming technology

TABLE 127 UK: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 128 UK: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

10.3.4 ITALY

10.3.4.1 Surging adoption of advanced digital farming techniques to drive market growth

TABLE 129 ITALY: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 130 ITALY: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

10.3.5 SPAIN

10.3.5.1 Rising concern for water conservation to propel growth

TABLE 131 SPAIN: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 132 SPAIN: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

10.3.6 POLAND

10.3.6.1 Poland to witness promising growth in eastern European market

TABLE 133 POLAND: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 134 POLAND: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

10.3.7 REST OF EUROPE

10.4 ASIA PACIFIC

FIGURE 55 SNAPSHOT: SOIL MONITORING MARKET IN ASIA PACIFIC

TABLE 135 ASIA PACIFIC: SOIL MONITORING MARKET, BY APPLICATION, 2019–2021 (USD MILLION)

FIGURE 56 AGRICULTURAL APPLICATION TO WITNESS HIGHER CAGR

TABLE 136 ASIA PACIFIC: SOIL MONITORING MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 137 ASIA PACIFIC: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2019–2021 (USD MILLION)

TABLE 138 ASIA PACIFIC: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2022–2027 (USD MILLION)

TABLE 139 ASIA PACIFIC: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 140 ASIA PACIFIC: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

TABLE 141 ASIA PACIFIC: SOIL MONITORING MARKET, BY COUNTRY, 2019–2021 (USD MILLION)

FIGURE 57 CHINA TO WITNESS HIGHEST CAGR

TABLE 142 ASIA PACIFIC: SOIL MONITORING MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

10.4.1 CHINA

10.4.1.1 Focus on agricultural research projects to create additional demand for soil monitoring technology

TABLE 143 CHINA: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 144 CHINA: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

10.4.2 AUSTRALIA

10.4.2.1 Support from local government and surging funding activities in agri-tech space to boost market growth

TABLE 145 AUSTRALIA: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 146 AUSTRALIA: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

10.4.3 JAPAN

10.4.3.1 Research projects with focus on soil moisture measurement to drive market growth

TABLE 147 JAPAN: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 148 JAPAN: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

10.4.4 INDIA

10.4.4.1 Recent government initiatives to spur market growth

TABLE 149 INDIA: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 150 INDIA: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

10.4.5 SOUTH KOREA

10.4.5.1 Rising interest among growers toward digital farming to propel market growth

TABLE 151 SOUTH KOREA: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 152 SOUTH KOREA: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

10.4.6 REST OF ASIA PACIFIC

10.5 ROW (REST OF THE WORLD)

TABLE 153 ROW: SOIL MONITORING MARKET, BY APPLICATION, 2019–2021 (USD MILLION)

FIGURE 58 AGRICULTURAL TO DOMINATE MARKET DURING FORECAST PERIOD

TABLE 154 ROW: SOIL MONITORING MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 155 ROW: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2019–2021 (USD MILLION)

TABLE 156 ROW: SOIL MONITORING MARKET, BY SYSTEM TYPE, 2022–2027 (USD MILLION)

TABLE 157 ROW: SOIL MONITORING MARKET, BY OFFERING, 2019–2021 (USD MILLION)

TABLE 158 ROW: SOIL MONITORING MARKET, BY OFFERING, 2022–2027 (USD MILLION)

TABLE 159 ROW: SOIL MONITORING MARKET, BY REGION, 2019–2021 (USD MILLION)

FIGURE 59 MIDDLE EAST TO GROW AT HIGHER CAGR DURING FORECAST PERIOD

TABLE 160 ROW: SOIL MONITORING MARKET, BY REGION, 2022–2027 (USD MILLION)

10.5.1 MIDDLE EAST

10.5.1.1 Increasing trend toward indoor farming to drive market growth

10.5.2 AFRICA

10.5.2.1 Rising concern for precision irrigation method to propel market growth

11 COMPETITIVE LANDSCAPE

11.1 OVERVIEW

11.2 MARKET SHARE ANALYSIS – SOIL MONITORING MARKET, 2021

TABLE 161 SOIL MONITORING MARKET: DEGREE OF COMPETITION

11.3 STRATEGIES ADOPTED BY KEY PLAYERS

11.4 REVENUE SHARE ANALYSIS OF KEY PLAYERS

FIGURE 60 TOTAL REVENUE ANALYSIS OF KEY PLAYERS IN SOIL MONITORING MARKET, 2019–2021 (USD BILLION)

11.5 COMPANY EVALUATION QUADRANT (KEY PLAYERS)

11.5.1 STARS

11.5.2 EMERGING LEADERS

11.5.3 PERVASIVE PLAYERS

11.5.4 PARTICIPANTS

FIGURE 61 SOIL MONITORING MARKET: COMPANY EVALUATION QUADRANT, 2021 (KEY PLAYERS)

11.6 PRODUCT FOOTPRINT

TABLE 162 KEY PLAYERS: COMPANY PRODUCT FOOTPRINT, BY OFFERING

TABLE 163 KEY PLAYERS: COMPANY PRODUCT FOOTPRINT, BY APPLICATION

TABLE 164 KEY PLAYERS: COMPANY PRODUCT FOOTPRINT, BY REGIONAL FOOTPRINT

TABLE 165 KEY PLAYERS: COMPANY PRODUCT FOOTPRINT: OVERALL FOOTPRINT

11.7 START-UP/SME EVALUATION QUADRANT (OTHER PLAYERS)

11.7.1 PROGRESSIVE COMPANIES

11.7.2 STARTING BLOCKS

11.7.3 RESPONSIVE COMPANIES

11.7.4 DYNAMIC COMPANIES

FIGURE 62 SOIL MONITORING MARKET: COMPANY EVALUATION QUADRANT, 2021 (OTHER PLAYERS)

11.8 PRODUCT FOOTPRINT

TABLE 166 OTHER PLAYERS: COMPANY PRODUCT FOOTPRINT, BY OFFERING

TABLE 167 OTHER PLAYERS: COMPANY PRODUCT FOOTPRINT, BY APPLICATION

TABLE 168 OTHER PLAYERS: COMPANY PRODUCT FOOTPRINT, BY REGIONAL FOOTPRINT

TABLE 169 OTHER PLAYERS: COMPANY PRODUCT FOOTPRINT: OVERALL FOOTPRINT

TABLE 170 OTHER PLAYERS: SOIL MONITORING: COMPETITIVE BENCHMARKING OF KEY START-UPS

11.9 COMPETITIVE SCENARIO

11.9.1 PRODUCT LAUNCHES

TABLE 171 SOIL MONITORING MARKET: NEW PRODUCT LAUNCHES, 2018–2022

11.9.2 DEALS

TABLE 172 SOIL MONITORING MARKET: DEALS, 2018–2022

11.9.3 OTHERS

TABLE 173 SOIL MONITORING MARKET: EXPANSIONS, 2018 - 2022

12 COMPANY PROFILES

12.1 KEY PLAYERS

(Business overview, Products/Solutions/Services offered, Recent developments, MnM

view, Key strengths, Strategic choices, and Weaknesses and competitive threats)*

12.1.1 STEVENS WATER MONITORING SYSTEMS INC.

TABLE 174 STEVENS WATER MONITORING SYSTEMS INC.: BUSINESS OVERVIEW

TABLE 175 STEVENS WATER MONITORING SYSTEMS INC.: DEALS

12.1.2 SGS GROUP

TABLE 176 SGS GROUP: BUSINESS OVERVIEW

FIGURE 63 SGS GROUP: COMPANY SNAPSHOT

TABLE 177 SGS GROUP: NEW PRODUCT LAUNCHES

TABLE 178 SGS GROUP: DEALS

TABLE 179 SGS GROUP: OTHERS

12.1.3 METER GROUP

TABLE 180 METER GROUP: BUSINESS OVERVIEW

TABLE 181 METER GROUP: NEW PRODUCT LAUNCHES

12.1.4 ELEMENT MATERIALS TECHNOLOGY GROUP LIMITED

TABLE 182 ELEMENT MATERIALS TECHNOLOGY GROUP LIMITED: BUSINESS OVERVIEW

TABLE 183 ELEMENT MATERIALS TECHNOLOGY GROUP LIMITED: DEALS

12.1.5 THE TORO COMPANY

TABLE 184 THE TORO COMPANY: BUSINESS OVERVIEW

FIGURE 64 THE TORO COMPANY: COMPANY SNAPSHOT

TABLE 185 THE TORO COMPANY: DEALS

12.1.6 CAMPBELL SCIENTIFIC

TABLE 186 CAMPBELL SCIENTIFIC: BUSINESS OVERVIEW

TABLE 187 CAMPBELL SCIENTIFIC: DEALS

TABLE 188 CAMPBELL SCIENTIFIC: OTHERS

12.1.7 SENTEK TECHNOLOGIES

TABLE 189 SENTEK TECHNOLOGIES: BUSINESS OVERVIEW

TABLE 190 SENTEK TECHNOLOGIES: NEW PRODUCT LAUNCHES

TABLE 191 SENTEK TECHNOLOGIES: OTHERS

12.1.8 SPECTRUM TECHNOLOGIES, INC.

TABLE 192 SPECTRUM TECHNOLOGIES, INC.: BUSINESS OVERVIEW

TABLE 193 SPECTRUM TECHNOLOGIES, INC.: NEW PRODUCT LAUNCHES

12.1.9 IRROMETER COMPANY, INC.

TABLE 194 IRROMETER COMPANY, INC.: BUSINESS OVERVIEW

12.1.10 CROPX TECHNOLOGIES LTD.

TABLE 195 CROPX TECHNOLOGIES LTD.: BUSINESS OVERVIEW

TABLE 196 CROPX TECHNOLOGIES LTD.: DEALS

TABLE 197 CROPX TECHNOLOGIES LTD.: OTHERS

12.2 SMES/START-UPS

12.2.1 ACCLIMA, INC.

TABLE 198 ACCLIMA, INC.: BUSINESS OVERVIEW

12.2.2 AQUACHECK USA

TABLE 199 AQUACHECK USA: BUSINESS OVERVIEW

12.2.3 HYDROPOINT

TABLE 200 HYDROPOINT: BUSINESS OVERVIEW

TABLE 201 HYDROPOINT: NEW PRODUCT LAUNCHES

12.2.4 DELTA-T DEVICES LTD

TABLE 202 DELTA-T DEVICES LTD: BUSINESS OVERVIEW

TABLE 203 DELTA-T DEVICES LTD: NEW PRODUCT LAUNCHES

12.2.5 IMKO MICROMODULTECHNIK GMBH

TABLE 204 IMKO MICROMODULTECHNIK GMBH: BUSINESS OVERVIEW

12.2.6 E.S.I. ENVIRONMENTAL SENSORS

12.2.7 VEGETRONIX

12.2.8 AQUASPY

12.2.9 SOIL SCOUT OY

12.2.10 CAIPOS GMBH

*Details on Business overview, Products/Solutions/Services offered, Recent developments, MnM view, Key strengths, Strategic choices, and Weaknesses and competitive threats might not be captured in case of unlisted companies.

13 ADJACENT AND RELATED MARKETS

13.1 INTRODUCTION

TABLE 205 ADJACENT MARKETS TO SOIL MONITORING MARKET

13.2 LIMITATIONS

13.3 SOIL AMENDMENTS MARKET

13.3.1 MARKET DEFINITION

13.3.2 MARKET OVERVIEW

TABLE 206 SOIL AMENDMENTS MARKET, BY CROP TYPE, 2017–2020 (USD MILLION)

TABLE 207 SOIL AMENDMENTS MARKET, BY CROP TYPE, 2021–2027 (USD MILLION)

13.4 SOIL CONDITIONERS MARKET

13.4.1 MARKET DEFINITION

13.4.2 MARKET OVERVIEW

TABLE 208 SOIL CONDITIONERS MARKET, BY TYPE, 2018–2025 (USD MILLION)

13.5 SOIL TESTING EQUIPMENT MARKET

13.5.1 MARKET DEFINITION

13.5.2 MARKET OVERVIEW

TABLE 209 SOIL TESTING EQUIPMENT MARKET, BY END-USE INDUSTRY,
2017–2025 (USD MILLION)

14 APPENDIX

14.1 DISCUSSION GUIDE

14.2 KNOWLEDGESTORE: MARKETSDANDMARKETS' SUBSCRIPTION PORTAL

14.3 CUSTOMIZATION OPTIONS

14.4 RELATED REPORTS

14.5 AUTHOR DETAILS

About

According to the new market research report on "Soil Moisture Sensor Market by Type (Volumetric and Soil Water Potential), Application (Agriculture, Residential, Landscaping, Sports Turf, Weather Forecasting, Forestry, Research Studies, and Construction & Mining), and Geography - Global Forecast to 2023", the soil moisture sensor market is expected to grow from USD 131.7 million in 2018 to USD 264.0 Million by 2023, at a CAGR of 14.92% between 2018 and 2023. The growth of this market is driven by a gradual shift in the climatic conditions and growing demand for the improved productivity.

Major players in the soil moisture sensor market include

METER Group (US)

Irrrometer Company (US)

The Toro Company (US)

Campbell Scientific (US)

Delta-T Devices (UK)

Spectrum Technologies (US)

Sentek (Australia)

Stevens Water Monitoring Systems (US)

E.S.I. Environmental Sensors (Canada)

IMKO Micromodultechnik (Germany)

Volumetric soil moisture sensors to hold larger share of market during forecast period

In terms of value, volumetric soil moisture sensors are expected to hold a larger share

of the soil moisture sensor market during the forecast period. The volumetric soil moisture sensors provide more accurate data and require very little or no calibration at the time of installation; hence, their demand in almost all the applications is high.

Soil moisture sensor market for sports turf application to grow at highest CAGR during forecast period

The soil moisture sensor market for sports turf application is expected to grow at the highest CAGR during the forecast period. As more people are interested in sports for the entertainment purpose, investments for the betterment of playgrounds, turfs, and other related infrastructure have increased drastically; this leads sports turf to be the fastest-growing application of the soil moisture sensors.

Americas to hold largest share of soil moisture sensor market during forecast period

The Americas is expected to hold the market with the largest share between 2018 and 2023. The growth of this market is attributed to the factors such as strict environmental regulations, strong government support, efforts toward automation of agricultural processes, and growing adoption of precision farming and yield monitoring practices by small and the large farm owners to increase the productivity of the fields.

I would like to order

Product name: Soil Monitoring Market by Offering (Hardware, Software, Services), System Type (Sensing & Imagery, Ground-based Sensing, Robotic & Telematics), Application (Agricultural, Non-agricultural) and Region - Global Forecast to 2027

Product link: <https://marketpublishers.com/r/S13E0B63FF6EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/S13E0B63FF6EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970