

Israel Precision Farming Market Size Study, by Component (Hardware, Software, Services), by Technology (Guidance System, Remote Sensing, Variable Rate Technology), by Application (Yield Monitoring, Field Mapping, Crop Scouting, Weather Tracking, Irrigation Management, Farm Labour Management), and Forecasts 2022-2032

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Abstracts

Israel Precision Farming Market was valued at USD 58.89 million in 2023 and is expected to experience robust growth with a CAGR of 6.72% through 2024-2032. Precision farming, also known as precision agriculture, is a revolutionary approach to farm management that leverages advanced technologies such as GPS guidance, control systems, sensors, robotics, drones, autonomous vehicles, and telematics to enhance agricultural productivity and sustainability. This innovative method enables precise and controlled use of resources such as water, fertilizers, and pesticides, thereby improving efficiency and profitability in agricultural production.

The precision farming market in Israel is evolving rapidly, driven by significant adoption of cutting-edge technologies. Known for its technological innovation, Israel has integrated precision farming techniques extensively into its agriculture sector. Factors such as the need for sustainable farming practices, water resource scarcity, and strong governmental support for smart agriculture are propelling market growth. Additionally, the presence of numerous tech startups specializing in agricultural technologies further bolsters the market. Israel's inherent limitations in natural resources, especially water scarcity, are key drivers for the precision farming market. The country faces arid and semi-arid conditions, making water a critical resource. Precision farming technologies optimize water usage, ensuring efficient irrigation and minimizing waste. Israeli

entrepreneurs and innovators are at the forefront of developing technologies such as sensors, drones, AI, and data analytics tailored for precision agriculture. This ecosystem, supported by venture capital, research institutions, and government initiatives, fuels the rapid development and adoption of precision farming solutions.

The rising emphasis on sustainable agriculture practices is another significant driver for Israel's precision farming market. Precision farming aligns with sustainability by optimizing resource use, reducing environmental impact, and enhancing farm efficiency. As a leader in arid-zone agriculture, Israel recognizes the importance of sustainable practices for food security and environmental conservation. Technologies such as precision irrigation and smart farming systems minimize water, fertilizer, and pesticide use while maximizing crop yields, contributing to soil health, biodiversity, and reduced greenhouse gas emissions.

Moreover, the push for increased farm mechanization and labor efficiency is driving market growth. With a limited agricultural workforce, Israeli farmers are turning to precision farming technologies to automate and streamline tasks. Autonomous machinery, robotic systems, and advanced monitoring devices reduce manual labor and improve farm operations' overall efficiency. This trend is crucial for Israel's agricultural sector, which seeks to overcome labor shortages and maximize productivity. However, challenges such as limited arable land, fragmented farming, high initial costs, and return on investment concerns persist. Addressing these challenges is essential for the sustained growth of the precision farming market in Israel.

Major market players included in this report are:

Taranis Israel

Prospera Technologies Ltd.

CropX Technologies Ltd.

PickApp Farming Ltd.

Metzer Group

Roots Sustainable Agricultural Technologies Ltd.

Haifa Group

Netafim Ltd.

Tevatronic

Saturas Israel

The detailed segments and sub-segment of the market are explained below:

By Component:

Hardware

Software

Services

By Technology:

Guidance System

Remote Sensing

Variable Rate Technology

By Application:

Yield Monitoring

Field Mapping

Crop Scouting

Weather Tracking

Irrigation Management

Farm Labour Management

Others

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market

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