

Smart Oil Crops Market - A Global and Regional Analysis: Focus on Application, Product, and Regional Analysis - Analysis and Forecast, 2025-2035

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Abstracts

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Introduction of Smart Oil Crops Market

The smart oil crops market has been gaining significant traction as agricultural technologies evolve to address challenges such as climate change, resource scarcity, and the need for higher productivity. Since 2024, there has been an increasing adoption of precision agriculture and automation, which has significantly boosted crop yields and reduced input costs. For instance, in early 2025, Deere & Company launched a new line of smart tractors with the John Deere 2025 9RX Series, equipped with AI and GPS technology, enabling farmers to optimize planting, irrigation, and harvesting based on real-time data. Similarly, AGCO Corporation unveiled advanced smart irrigation systems and the AGCO Momentum 30-Foot Planter, which utilize IoT to deliver precise water amounts, thereby helping to reduce water waste in regions facing drought. These innovations are driven by a growing emphasis on sustainable farming practices, with companies like Corteva integrating AI-powered crop management solutions that help improve decision-making. As smart farming systems continue to expand across diverse regions, including the U.S., Brazil, India, and China, they are expected to play a pivotal role in meeting global food security needs and reducing environmental impact, marking a shift toward more efficient and resilient oil crop cultivation.

Market Introduction

The smart oil crops market has been steadily gaining traction as advancements in agricultural technologies continue to reshape the landscape of oilseed production. With

growing concerns over climate change, resource scarcity, and the need for enhanced productivity, governments worldwide have been implementing supportive initiatives to drive the growth of this market. In India, the government launched the National Mission on Edible Oils – Oilseeds (NMEO-Oilseeds) in 2024, with a budget of \$121.58 million, aimed at increasing domestic oilseed production. This initiative focuses on boosting yields of key crops, including rapeseed-mustard, soybeans, groundnuts, sunflowers, and sesame, with production targets set to increase from 39 million tons in 2022-23 to 69.7 million tons by 2030-31. The mission emphasizes the use of high-yield seed varieties, digital tools for seed quality management, and the development of seed hubs and storage units to ensure sustainability and reduce reliance on imports. Similarly, in Canada, the government announced a five-year plan investing nearly \$3.7 million to develop new technologies and crop varieties to address challenges such as climate change and improve the resilience of oilseeds. In the U.S., the USDA has projected a slight increase in oilseed production for the 2025/26 marketing year, driven by a shift from wheat to rapeseed cultivation. The USDA is also focusing on precision farming to enhance productivity and ensure sustainable growth. These government-led initiatives, alongside the growing adoption of smart farming tools, are expected to position the smart oil crops market as a key enabler of food security and a critical component in reducing dependence on imported edible oils.

Industrial Impact

The smart oil crops market has been experiencing steady growth, driven by increasing demand for sustainable, high-yield oilseeds to meet global food and biofuel needs. With the pressure to reduce reliance on imported edible oils and ensure food security, smart oil crops offer a compelling solution by integrating precision farming technologies to optimize yield and resource use. Advances in seed genetics, digital tools for crop management, and smart irrigation systems are improving productivity, sustainability, and resilience to climate challenges, making these crops increasingly suitable for diverse agricultural applications. The market is further supported by growing investments from governments and private sector players, alongside national initiatives aimed at strengthening food security and reducing environmental impact. As efforts to promote self-sufficiency and sustainable agriculture gain momentum globally, the smart oil crops market is expected to expand significantly, playing a crucial role in increasing domestic oilseed production and ensuring long-term food and biofuel security.

Market Segmentation:

Segmentation 1: by Application

Soybean

Sunflower

Rapeseed (Canola)

Others

Soybean to Lead the Market (by Application)

Soybean leads the global smart oil crops market due to its versatility, high yield, and adaptability to precision agriculture technologies. The crop is increasingly in demand for food, animal feed, biodiesel, and industrial uses. The global adoption of AI, IoT, and smart machinery has accelerated, with smart tractors, autonomous planters, drone mapping, and smart irrigation systems gaining traction across regions such as the U.S., Brazil, the EU, India, and China. In 2024, major projects such as Farmonaut's Precision Agriculture Platform, World Bank Climate-Smart Agriculture Implementation Projects, India's National Mission on Edible Oils (NMEO-Oilseeds) digital transformation, large-scale Precision Agriculture Technology Uptake surveys, and India's drone application programs have collectively revealed that up to 60% of farmers have adopted new agri-tech tools to enhance productivity and sustainability in oil crop production.

Segmentation 2: by Equipment

Tractors

Planters

Sprayers

Harvesters

Segmentation 3: by Systems

Navigation and Guidance Systems

Field Sensing and Harvest Monitoring Systems

Smart Irrigation Systems

Segmentation 4: by Software

Farm Management and Decision Support Software

Remote Sensing and Prescription Software

Segmentation 5: by Region

North America

Europe

Asia-Pacific

Rest-of-the-World

North America to Lead the Market (by Region)

In North America, soybean dominates the U.S. oilseed market, while Canada's canola industry benefits from AI and automation to enhance efficiency. The region leads in precision agriculture, with large U.S. farms adopting advanced technologies for higher productivity and sustainability. However, small farms, which make up over 85%, are slower to adopt these innovations. To support this shift, the USDA has invested \$160 million in the National Center for Resilient and Regenerative Precision Agriculture. Meanwhile, in the Caribbean, the Caribbean Community Climate Change Centre (CCCCC) promotes climate-smart agriculture, with a focus on oilseed and biofuel crops for climate adaptation. The United Nations Development Programme (UNDP) collaborates to improve sustainability, utilizing AI technologies for crop monitoring, yield optimization, and waste reduction.

Recent Developments in the Smart Oil Crops Market

In April 2024, Agremo deployed its plant counting and crop monitoring solutions

with Black Gold Farms in the U.S. This deployment leveraged drone-based data combined with Agremo's AI analytics to enhance crop emergence assessment and input management for oilseed production, resulting in significant improvements in productivity and sustainability for Black Gold Farms.

In 2024, the USDA invested \$3.1 billion in 141 projects across 15+ states to promote climate-smart agriculture practices, including precision digital tools for crops such as soybeans. Major partners included Archer-Daniels-Midland Company (ADM), farmers' networks, and agritech firms, with a focus on sustainability and reducing greenhouse gas emissions through the use of advanced AI and remote sensing technology.

During 2024–2025, John Deere advanced smart oil crop production with AI-integrated tractors, combines, and sprayers, featuring embedded sensors, machine vision, and real-time analytics for soil, crop, weather, and machine monitoring. Its autonomous field operations, powered by GPS, LIDAR, and cameras, enabled 24/7 planting and harvesting. New precision implements, automated planters, and IoT tools such as GreenSystem Link and JDLink provided remote monitoring and multi-machine coordination. For 2026 combines, John Deere introduced Harvest Automation Updates, optimizing harvesting with predictive speed, stereo cameras, and weed detection, reinforcing its leadership in AI-driven precision agriculture.

How can this report add value to an organization?

Product/Innovation Strategy: This report provides a detailed analysis of the smart oil crops market segmented by application, equipment, systems, and software. It covers various segments within the smart oil crops market, including equipment, systems, and software, providing insights into its evolving technologies and technical advantages. The equipment segment, comprising tractors, planters, sprayers, and harvesters, highlights design trends based on application-specific requirements for efficient oilseed farming. The systems segment, which encompasses navigation and guidance systems, field sensing and harvest monitoring systems, and smart irrigation systems, enables stakeholders to develop energy-efficient solutions that optimize crop management and resource utilization. The software segment, comprising farm management and decision support software, as well as remote sensing and prescription software, enables product teams to identify opportunities for innovation and adapt strategies to meet the performance, integration, and cost-efficiency demands in the smart oil crops sector.

Growth/Marketing Strategy: The smart oil crops market is evolving rapidly, with key players focusing on integrating smart technologies to enhance oilseed production. Companies are expanding their capabilities by adopting precision farming, AI-driven crop management, and smart irrigation systems to increase yields, improve sustainability, and reduce environmental impact. This report tracks these developments, offering insights into how companies are leveraging innovations such as IoT-based monitoring, remote sensing, and automated machinery to optimize farming operations. It aids marketing teams in identifying high-growth opportunities, aligning value propositions with farmer needs, and creating targeted go-to-market strategies that consider regional agricultural trends, government initiatives, and the market's technological readiness.

Competitive Strategy: A thorough competitive landscape is provided, profiling leading players based on their product offerings, innovation pipelines, partnerships, and expansion plans. Competitive benchmarking enables readers to evaluate how companies are positioned across product types and application areas.

Research Methodology

Data Sources

Primary Data Sources

The primary sources involve industry experts from the smart oil crops market and various stakeholders in the ecosystem. Respondents, including CEOs, vice presidents, marketing directors, and technology and innovation directors, have been interviewed to gather and verify both qualitative and quantitative aspects of this research study.

The key data points taken from primary sources include:

- validation and triangulation of all the numbers and graphs

- validation of report segmentation and key qualitative findings

- understanding the competitive landscape

- validation of the numbers of various markets for the market type

percentage split of individual markets for geographical analysis

Secondary Data Sources

This research study involves the usage of extensive secondary research, directories, company websites, and annual reports. It also utilizes databases, such as Hoover's, Bloomberg, Businessweek, and Factiva, to collect useful and effective information for an extensive, technical, market-oriented, and commercial study of the global market. In addition to core data sources, the study referenced insights from reputable organizations and resources such as the United States Department of Agriculture (USDA), Economic Research Service (ERS), the Food and Agriculture Organization (FAO) of the United Nations, the International Food Policy Research Institute (IFPRI), and leading agritech platforms such as Farmonaut and EOS Data Analytics (EOSDA) are essential. These sources offer comprehensive insights into precision agriculture, digital farming, sustainable practices, and the adoption of technology, all of which impact oil crop production worldwide.

Secondary research was done to obtain crucial information about the industry's value chain, revenue models, the market's monetary chain, the total pool of key players, and the current and potential use cases and applications.

The key data points taken from secondary research include:

segmentations and percentage shares

data for market value

key industry trends of the top players in the market

qualitative insights into various aspects of the market, key trends, and emerging areas of innovation

quantitative data for mathematical and statistical calculations

Data Triangulation

This research study utilizes extensive secondary sources, including certified

publications, articles by recognized authors, white papers, company annual reports, directories, and major databases, to collect useful and effective information for a comprehensive, technical, market-oriented, and commercial study of the smart oil crops market.

The process of market engineering involves the calculation of the market statistics, market size estimation, market forecast, market crackdown, and data triangulation (the methodology for such quantitative data processes has been explained in further sections). A primary research study has been undertaken to gather information and validate market numbers for segmentation types and industry trends among key players in the market.

Key Market Players and Competition Synopsis

The smart oil crops market is experiencing rapid growth, driven by advancements in precision agriculture, biotechnology, and increasing demand for sustainable oilseeds. In 2024 and 2025, major players such as Deere & Company, AGCO Corporation, and Corteva introduced innovations, including AI-integrated systems and genetically modified seed varieties, which boosted crop yields and sustainability. Trimble Inc. and Kubota Corporation have launched new GPS-based solutions and smart tractors that help optimize planting and irrigation, particularly in the South American and Asia-Pacific regions. Topcon Corporation and Kinze Manufacturing are enhancing the efficiency of oilseed farming by utilizing advanced geospatial and planting technologies. Additionally, Valmont Industries is providing irrigation systems in the Middle East and Africa to address water scarcity issues. These technological advancements, supported by government initiatives, are transforming the market and driving the global adoption of smart farming practices.

Some prominent names established in this market are:

Deere & Company

CNH Industrial N.V.

AGCO Corporation

Trimble Inc.

Ag Leader Technology

Topcon Corporation

Valmont Industries, Inc.

Corteva

Kubota Corporation

Kinze Manufacturing

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