

Agricultural Sprayers Market worth \$6.97 billion by 2030, growing at a CAGR of 6.69% -Exclusive Report by 360iResearch

The Global Agricultural Sprayers Market to grow from USD 4.15 billion in 2022 to USD 6.97 billion by 2030, at a CAGR of 6.69%.

PUNE, MAHARASHTRA, INDIA , November 10, 2023 / EINPresswire.com/ -- The "<u>Agricultural</u> <u>Sprayers Market</u> by Type (Aerial, Handheld, Self-Propelled), Nozzle Type (Drift-Reducing Fan Nozzles, Flat Fan Nozzles, Full Cone Nozzles), Power Source, Farm Size, Application - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.



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Agricultural sprayers are the equipment used for the controlled dispersal of essential substances such as water, pesticides, herbicides, and fertilizers in various farming operations. Significant increase in demand for agricultural sprayers is driven by factors such as increasing global population and demand for food, leading to a need for efficient farming techniques. Advanced agricultural sprayers with precision spraying capabilities are crucial for minimizing environmental impact while protecting crops from pests and diseases. Government initiatives promoting sustainable agriculture practices and financial assistance further support market growth. However, certain limitations and challenges, such as the high costs of adopting new technologies, may be a barrier for small-scale farmers lacking adequate financing options. In addition, regulatory constraints regarding stringent environmental norms on chemical use can

limit growth prospects within specific regions. Focusing on innovation and research areas, including developing affordable technologies for small-scale farms, integrating advanced sensor systems and IoT capabilities, enhancing precision spraying mechanisms, and advancing automation technologies, is essential to foster growth in the agricultural sprayers sector. Businesses can achieve sustained growth while addressing global food security challenges by capitalizing on these opportunities for innovation within the agricultural sprayers market.

Type: Growing demand for aerial and self-propelled sprayers in the commercial agribusinesses Aerial sprayers are used for large-scale crop protection operations, utilizing aircraft to distribute pesticides, fungicides, or herbicides. These high-capacity sprayers cover vast areas in considerably less time than ground-based spraying methods. For small-scale applications such as home gardens or nurseries, handheld sprayers provide a cost-effective solution. These devices are ideal for hobby gardeners or small farmers seeking precision in spraying. Selfpropelled sprayers offer advanced autonomy and powerful engines for precise chemical application on large farms. Tractor-mounted sprayers cater to smaller-scale farmers requiring greater capacity than handheld options. Trailed sprayers offer increased capacity over tractormounted alternatives and cater to medium-to-large-sized farms needing extensive coverage without investing in aerial or self-propelled equipment. Aerial and self-propelled sprayers target commercial agribusinesses, prioritizing speed, efficiency, and precision. Handheld or tractormounted options are better suited to smaller applications due to affordability and simplicity, and trailed sprayers balance capacity and cost-effectiveness, making them a popular choice for medium-sized farms seeking high-efficiency chemical applications.

Application: High utilization of agriculture sprayer for nutrient delivery & disease management Nutrient and disease management is essential in agriculture to maintain optimum plant health, enhance crop yield, and prevent the spread of diseases. Farmers prefer agricultural sprayers for efficiently delivering fertilizers, growth regulators, and chemicals to combat pathogens. Pest and weed control is critical in protecting crops from damage caused by insects, rodents, and invasive plants. Agricultural sprayers are widely utilized for targeted spraying of herbicides, insecticides, and other pest control solutions. Seed treatment refers to applying protective coatings on seeds before sowing them into the soil to shield them from pests, diseases, or unfavorable weather conditions. Agricultural sprayers are increasingly used for special seed treatment applications that improve crop quality and germination rates. Nutrient & disease management sprayers are widely preferred for maintaining plant health and combating diseases with advanced technologies such as variable rate application nozzles. Pest & weed control sprayers are essential in protecting crops from insects, rodents, and invasive plants using targeted spraying methods such as auto-steering technology. Seed treatment sprayers improve germination rates and crop quality by providing protective coatings on seeds before sowing them into the soil.

Farm Size: Significant utilization of agriculture sprayer in large scale farms to boost the production

Large farms prioritize high-capacity, efficient sprayers with precision, versatility, and automation. GPS-guided self-propelled sprayers are preferred in this segment for their superior accuracy.

Medium-sized farms seek a balance between performance and affordability in agricultural sprayers. Trailed or mounted multi-purpose sprayers with adaptable boom widths for various field conditions are popular choices. Small farms focus on cost-effective, user-friendly solutions such as compact backpacks or handheld sprayers. Large farms prioritize precision and automation, while medium-sized farms seek a balance between performance and affordability. Small farms focus on cost-effectiveness and ease of use. Understanding these segments helps manufacturers tailor their offerings to meet specific customer requirements.

Nozzle Type: Increasing usage of air induction nozzle agricultural sprayer for herbicide applications

Air induction nozzles (AI) generate larger droplets by incorporating air into the spray liquid, minimizing drift risks during application. They are particularly suitable for herbicide applications where controlling drift is crucial. Drift-reducing fan (DRF) nozzles produce a wide-angle fan spray pattern, limiting small droplet creation and reducing drift potential. They work well with contact fungicides or insecticides requiring comprehensive coverage without compromising drift control. Flat fan (FF) nozzles are a popular choice among farmers as they offer uniform spray patterns and even product distribution across target areas. They are effective with systemic herbicides, fungicides, and insecticides that require thorough coverage. Full cone (FC) nozzles generate a solid cone-shaped spray pattern, providing high droplet density and impact force. They are ideal for applications requiring deep penetration into dense crop canopies, such as contact fungicides or foliar fertilizers. Hollow cone (HC) nozzles create a hollow cone-shaped spray pattern that ensures excellent droplet distribution on outer edges while minimizing central overlap. These nozzles are best suited for post-emergence applications such as targeted herbicide or fungicide treatments requiring precision. Selecting the right nozzle type for agricultural sprayers depends on factors such as drift management, coverage requirements, and specific application needs. Farmers can optimize crop protection and overall productivity by understanding each nozzle's unique characteristics and consulting with reputable manufacturers.

Power Source: Rising adoption of electric & battery-driven sprayers for small to medium-sized farms

Electric and battery-driven agricultural sprayers are known for their silent operation, low emissions, and ease of use. These sprayers are ideal for small- to medium-sized farming operations. Fuel-based agricultural sprayers typically run on gasoline or diesel engines and offer higher power output than their electric counterparts. These sprayers are preferred by larger farming operations that require extensive coverage or frequent spraying applications. Manual agricultural sprayers require human effort to operate as they lack an external power source, making them ideal for small-scale farms with limited resources or minimal spraying needs. Solarpowered agricultural sprayers harness solar energy to power their operations, making them an environmentally friendly alternative to traditional options. These systems are best suited for regions with abundant sunlight and farmers seeking sustainable solutions or minimal operating costs.

Regional Insights:

In the Americas, the United States and Canada are significant consumers of agricultural sprayers due to well-developed agriculture sectors and receptiveness to new technology. The regional funding programs drive precision agriculture research, highlighting sprayer design improvements. The European Union presents a high demand for agricultural sprayers from France, Germany, Italy, and Spain. Emphasis on sustainable farming practices has increased the adoption of advanced spraying systems that minimize chemical usage while maintaining yields. Middle Eastern countries within the EMEA region represent a gradually growing market for agricultural sprayers due to investments in modernizing agricultural practices. In Asia-Pacific, China, India, Japan, and other countries are showcasing significant growth in the agricultural sprayers market due to vast arable land and government support for mechanization. India is witnessing increased adoption of agricultural sprayers driven by awareness about modern farming techniques and financial support through various government initiatives.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Agricultural Sprayers Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Agricultural Sprayers Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

Key Company Profiles:

The report delves into recent significant developments in the Agricultural Sprayers Market, highlighting leading vendors and their innovative profiles. These include AGCO Corporation, Agro Chem Inc., AMAZONEN-WERKE H. DREYER SE & Co. KG, American Spring & Pressing Works Pvt. Ltd., ANDREAS STIHL AG & Co. KG, Boston Crop Sprayers, Bucher Industries AG, Chafer Machinery Ltd., CNH Industrial N.V., Deere & Company, Dura Products, Inc., Ecorobotix SA, Enduraplas, EXEL Industries SA, Greenleaf Technologies, Grupo Jacto, Guss Automation, GVM Incorporated, H&H Farm Machine Co., Hockley International Limited, HORSCH Maschinen GmbH, Kubota Corporation, Kuhn Group, Kverneland AS, Landquip Ltd., LEMKEN GmbH & Co. KG, Mahindra & Mahindra Limited, Martin Lishman Ltd., Micron Group, MS Gregson, SZ DJI Technology Co., Ltd., Team Sprayers Ltd, Yamaha Motor Co., Ltd., and Yanmar Co., Ltd.. Inquire Before Buying @ <u>https://www.360iresearch.com/library/intelligence/agricultural-</u> <u>sprayers?utm_source=einpresswire&utm_medium=referral&utm_campaign=inquire</u>

Market Segmentation & Coverage:

This research report categorizes the Agricultural Sprayers Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Type, market is studied across Aerial, Handheld, Self-Propelled, Tractor-Mounted, and Trailed. The Self-Propelled commanded largest market share of 37.10% in 2022, followed by Tractor-Mounted.

Based on Nozzle Type, market is studied across Drift-Reducing Fan Nozzles, Flat Fan Nozzles, Full Cone Nozzles, and Hollow Cone Nozzles. The Drift-Reducing Fan Nozzles commanded largest market share of 36.13% in 2022, followed by Flat Fan Nozzles.

Based on Power Source, market is studied across Electric & Battery-Driven, Fuel-Based, Manual, and Solar. The Fuel-Based commanded largest market share of 46.64% in 2022, followed by Electric & Battery-Driven.

Based on Farm Size, market is studied across Large, Medium, and Small. The Large commanded largest market share of 37.21% in 2022, followed by Small.

Based on Application, market is studied across Nutrient & Disease Management, Pest & Weed Control, and Seed Treatment. The Nutrient & Disease Management commanded largest market share of 45.67% in 2022, followed by Pest & Weed Control.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Illinois, Indiana, Iowa, Kansas, Minnesota, Nebraska, Ohio, Pennsylvania, Texas, and Wisconsin. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Asia-Pacific commanded largest market share of 42.21% in 2022, followed by Europe, Middle East & Africa.

Key Topics Covered:

- 1. Preface
- 2. Research Methodology
- 3. Executive Summary

- 4. Market Overview
- 5. Market Insights
- 6. Agricultural Sprayers Market, by Type
- 7. Agricultural Sprayers Market, by Nozzle Type
- 8. Agricultural Sprayers Market, by Power Source
- 9. Agricultural Sprayers Market, by Farm Size
- 10. Agricultural Sprayers Market, by Application
- 11. Americas Agricultural Sprayers Market
- 12. Asia-Pacific Agricultural Sprayers Market
- 13. Europe, Middle East & Africa Agricultural Sprayers Market
- 14. Competitive Landscape
- 15. Competitive Portfolio
- 16. Appendix

The report provides insights on the following pointers:

1. Market Penetration: Provides comprehensive information on the market offered by the key players

2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets

3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments

4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players

5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:

- 1. What is the market size and forecast of the Agricultural Sprayers Market?
- 2. Which are the products/segments/applications/areas to invest in over the forecast period in the Agricultural Sprayers Market?
- 3. What is the competitive strategic window for opportunities in the Agricultural Sprayers Market?

4. What are the technology trends and regulatory frameworks in the Agricultural Sprayers Market?

5. What is the market share of the leading vendors in the Agricultural Sprayers Market?

6. What modes and strategic moves are considered suitable for entering the Agricultural Sprayers Market?

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