

# **Global Agricultural Sprayers Market Size study, by Type (Aerial, Handheld, Self-Propelled, Tractor-Mounted, Trailed), by Nozzle Type (Drift-Reducing Fan Nozzles, Flat Fan Nozzles, Full Cone Nozzles, Hollow Cone Nozzles), by Power Source (Electric & Battery-Driven, Fuel-Based, Manual, Solar), by Farm Size (Large, Medium, Small), by Application (Nutrient & Disease Management, Pest & Weed Control, Seed Treatment) and Regional Forecasts 2022-2032**

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## **Abstracts**

Global Agricultural Sprayers Market is valued approximately at USD 4.40 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 6.80% over the forecast period 2024-2032. Agricultural sprayers are indispensable tools in modern farming, designed for the efficient and controlled dispersal of essential substances like water, pesticides, herbicides, and fertilizers. The significant increase in demand for agricultural sprayers is driven by factors such as the rising global population and consequent demand for food, necessitating more efficient farming techniques. Advanced agricultural sprayers with precision spraying capabilities are critical for minimizing environmental impact while protecting crops from pests and diseases. Furthermore, government initiatives promoting sustainable agriculture practices and offering financial assistance further bolster market growth. Despite these positive trends, challenges such as the high costs associated with adopting new technologies may pose barriers for small-scale farmers lacking adequate financing options. Additionally, regulatory constraints related to stringent environmental norms on chemical use can limit growth prospects in specific regions. However, 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. By capitalizing on these opportunities, businesses can achieve sustained growth while addressing global food security challenges.

Aerial and self-propelled sprayers are increasingly demanded in commercial agribusinesses due to their speed, efficiency, and precision. Handheld or tractor-mounted options are more suitable for smaller applications due to their affordability and simplicity, while trailed sprayers offer a balance of capacity and cost-effectiveness, making them popular among medium-sized farms seeking high-efficiency chemical applications. The adoption of air induction nozzles for herbicide applications is rising, thanks to their ability to minimize drift risks during application. Electric and battery-driven sprayers are becoming popular for small to medium-sized farms due to their silent operation, low emissions, and ease of use. Large farms prioritize high-capacity, efficient sprayers with precision, versatility, and automation, while medium-sized farms seek a balance between performance and affordability. Small farms focus on cost-effectiveness and ease of use. Nutrient and disease management sprayers are widely preferred for maintaining plant health and combating diseases with advanced technologies such as variable rate application nozzles. Pest and weed control sprayers are essential for 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.

Key regions considered for the global agricultural sprayers market study include North America, Europe, Asia Pacific, Latin America, and Rest of the World. In 2023, North America dominated the market, driven by well-developed agriculture sectors and receptiveness to new technology in the United States and Canada. The Asia Pacific region is expected to witness significant growth, led by countries such as China, India, and Japan, owing to vast arable land and government support for mechanization.

Major market player included in this report are:

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

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

By Type

- Aerial
- Handheld
- Self-Propelled
- Tractor-Mounted
- Trailed

By Nozzle Type

- Drift-Reducing Fan Nozzles
- Flat Fan Nozzles
- Full Cone Nozzles
- Hollow Cone Nozzles

By Power Source

- Electric & Battery-Driven
- Fuel-Based
- Manual
- Solar

By Farm Size

- Large
- Medium
- Small

By Application

- Nutrient & Disease Management
- Pest & Weed Control
- Seed Treatment

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France

- Spain

- Italy

- ROE

Asia Pacific

- China

- India

- Japan

- Australia

- South Korea

- RoAPAC

Latin America

- Brazil

- Mexico

Middle East & Africa

- Saudi Arabia

- South Africa

- RoMEA

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.

- Detailed analysis of geographical landscape with Country level analysis of major regions.

- 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.

## Contents

### **CHAPTER 1. GLOBAL AGRICULTURAL SPRAYERS MARKET EXECUTIVE SUMMARY**

- 1.1. Global Agricultural Sprayers Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
  - 1.3.1. By Type
  - 1.3.2. By Nozzle Type
  - 1.3.3. By Power Source
  - 1.3.4. By Farm Size
  - 1.3.5. By Application
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

### **CHAPTER 2. GLOBAL AGRICULTURAL SPRAYERS MARKET DEFINITION AND RESEARCH ASSUMPTIONS**

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
  - 2.3.1. Inclusion & Exclusion
  - 2.3.2. Limitations
  - 2.3.3. Supply Side Analysis
    - 2.3.3.1. Availability
    - 2.3.3.2. Infrastructure
    - 2.3.3.3. Regulatory Environment
    - 2.3.3.4. Market Competition
    - 2.3.3.5. Economic Viability (Consumer's Perspective)
  - 2.3.4. Demand Side Analysis
    - 2.3.4.1. Regulatory frameworks
    - 2.3.4.2. Technological Advancements
    - 2.3.4.3. Environmental Considerations
    - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

## **CHAPTER 3. GLOBAL AGRICULTURAL SPRAYERS MARKET DYNAMICS**

### **3.1. Market Drivers**

- 3.1.1. Increasing global population and food demand
- 3.1.2. Government initiatives promoting sustainable agriculture
- 3.1.3. Rising adoption of precision spraying techniques

### **3.2. Market Challenges**

- 3.2.1. High costs of advanced sprayers
- 3.2.2. Regulatory constraints on chemical use

### **3.3. Market Opportunities**

- 3.3.1. Development of affordable technologies for small-scale farms
- 3.3.2. Integration of advanced sensor systems and IoT
- 3.3.3. Innovations in precision spraying mechanisms

## **CHAPTER 4. GLOBAL AGRICULTURAL SPRAYERS MARKET INDUSTRY ANALYSIS**

### **4.1. Porter's 5 Force Model**

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

### **4.2. PESTEL Analysis**

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

### **4.3. Top Investment Opportunity**

### **4.4. Top Winning Strategies**

### **4.5. Disruptive Trends**

### **4.6. Industry Expert Perspective**

### **4.7. Analyst Recommendation & Conclusion**

## **CHAPTER 5. GLOBAL AGRICULTURAL SPRAYERS MARKET SIZE & FORECASTS BY TYPE 2022-2032**

### 5.1. Segment Dashboard

### 5.2. Global Agricultural Sprayers Market: Type Revenue Trend Analysis, 2022 & 2032 (USD Billion)

#### 5.2.1. Aerial

#### 5.2.2. Handheld

#### 5.2.3. Self-Propelled

#### 5.2.4. Tractor-Mounted

#### 5.2.5. Trailed

## **CHAPTER 6. GLOBAL AGRICULTURAL SPRAYERS MARKET SIZE & FORECASTS BY NOZZLE TYPE 2022-2032**

### 6.1. Segment Dashboard

### 6.2. Global Agricultural Sprayers Market: Nozzle Type Revenue Trend Analysis, 2022 & 2032 (USD Billion)

#### 6.2.1. Drift-Reducing Fan Nozzles

#### 6.2.2. Flat Fan Nozzles

#### 6.2.3. Full Cone Nozzles

#### 6.2.4. Hollow Cone Nozzles

## **CHAPTER 7. GLOBAL AGRICULTURAL SPRAYERS MARKET SIZE & FORECASTS BY POWER SOURCE 2022-2032**

### 7.1. Segment Dashboard

### 7.2. Global Agricultural Sprayers Market: Power Source Revenue Trend Analysis, 2022 & 2032 (USD Billion)

#### 7.2.1. Electric & Battery-Driven

#### 7.2.2. Fuel-Based

#### 7.2.3. Manual

#### 7.2.4. Solar

## **CHAPTER 8. GLOBAL AGRICULTURAL SPRAYERS MARKET SIZE & FORECASTS BY FARM SIZE 2022-2032**

### 8.1. Segment Dashboard

### 8.2. Global Agricultural Sprayers Market: Farm Size Revenue Trend Analysis, 2022 &

2032 (USD Billion)

8.2.1. Large

8.2.2. Medium

8.2.3. Small

## **CHAPTER 9. GLOBAL AGRICULTURAL SPRAYERS MARKET SIZE & FORECASTS BY APPLICATION 2022-2032**

9.1. Segment Dashboard

9.2. Global Agricultural Sprayers Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Billion)

9.2.1. Nutrient & Disease Management

9.2.2. Pest & Weed Control

9.2.3. Seed Treatment

## **CHAPTER 10. GLOBAL AGRICULTURAL SPRAYERS MARKET SIZE & FORECASTS BY REGION 2022-2032**

10.1. North America Agricultural Sprayers Market

10.1.1. U.S. Agricultural Sprayers Market

10.1.1.1. Type breakdown size & forecasts, 2022-2032

10.1.1.2. Nozzle Type breakdown size & forecasts, 2022-2032

10.1.1.3. Power Source breakdown size & forecasts, 2022-2032

10.1.1.4. Farm Size breakdown size & forecasts, 2022-2032

10.1.1.5. Application breakdown size & forecasts, 2022-2032

10.1.2. Canada Agricultural Sprayers Market

10.1.2.1. Type breakdown size & forecasts, 2022-2032

10.1.2.2. Nozzle Type breakdown size & forecasts, 2022-2032

10.1.2.3. Power Source breakdown size & forecasts, 2022-2032

10.1.2.4. Farm Size breakdown size & forecasts, 2022-2032

10.1.2.5. Application breakdown size & forecasts, 2022-2032

10.2. Europe Agricultural Sprayers Market

10.2.1. U.K. Agricultural Sprayers Market

10.2.2. Germany Agricultural Sprayers Market

10.2.3. France Agricultural Sprayers Market

10.2.4. Spain Agricultural Sprayers Market

10.2.5. Italy Agricultural Sprayers Market

10.2.6. Rest of Europe Agricultural Sprayers Market

10.3. Asia-Pacific Agricultural Sprayers Market



- 10.3.1. China Agricultural Sprayers Market
- 10.3.2. India Agricultural Sprayers Market
- 10.3.3. Japan Agricultural Sprayers Market
- 10.3.4. Australia Agricultural Sprayers Market
- 10.3.5. South Korea Agricultural Sprayers Market
- 10.3.6. Rest of Asia Pacific Agricultural Sprayers Market
- 10.4. Latin America Agricultural Sprayers Market
  - 10.4.1. Brazil Agricultural Sprayers Market
  - 10.4.2. Mexico Agricultural Sprayers Market
  - 10.4.3. Rest of Latin America Agricultural Sprayers Market
- 10.5. Middle East & Africa Agricultural Sprayers Market
  - 10.5.1. Saudi Arabia Agricultural Sprayers Market
  - 10.5.2. South Africa Agricultural Sprayers Market
  - 10.5.3. Rest of Middle East & Africa Agricultural Sprayers Market

## **CHAPTER 11. COMPETITIVE INTELLIGENCE**

- 11.1. Key Company SWOT Analysis
  - 11.1.1. AGCO Corporation
  - 11.1.2. Deere & Company
  - 11.1.3. CNH Industrial N.V.
- 11.2. Top Market Strategies
- 11.3. Company Profiles
  - 11.3.1. AGCO Corporation
    - 11.3.1.1. Key Information
    - 11.3.1.2. Overview
    - 11.3.1.3. Financial (Subject to Data Availability)
    - 11.3.1.4. Product Summary
    - 11.3.1.5. Market Strategies
  - 11.3.2. Agro Chem Inc.
  - 11.3.3. AMAZONEN-WERKE H. DREYER SE & Co. KG
  - 11.3.4. American Spring & Pressing Works Pvt. Ltd.
  - 11.3.5. ANDREAS STIHL AG & Co. KG
  - 11.3.6. Boston Crop Sprayers
  - 11.3.7. Bucher Industries AG
  - 11.3.8. Chafer Machinery Ltd.
  - 11.3.9. Dura Products, Inc.
  - 11.3.10. Ecorobotix SA
  - 11.3.11. Enduraplas

- 11.3.12. EXEL Industries SA
- 11.3.13. Greenleaf Technologies
- 11.3.14. CNH Industrial N.V.
- 11.3.15. Deere & Company

## **CHAPTER 12. RESEARCH PROCESS**

- 12.1. Research Process
  - 12.1.1. Data Mining
  - 12.1.2. Analysis
  - 12.1.3. Market Estimation
  - 12.1.4. Validation
  - 12.1.5. Publishing
- 12.2. Research Attributes

## List Of Tables

### LIST OF TABLES

TABLE 1. Global Agricultural Sprayers Market, Report Scope

TABLE 2. Global Agricultural Sprayers Market Estimates & Forecasts by Region  
2022-2032 (USD Billion)

TABLE 3. Global Agricultural Sprayers Market Estimates & Forecasts by Type  
2022-2032 (USD Billion)

TABLE 4. Global Agricultural Sprayers Market Estimates & Forecasts by Nozzle Type  
2022-2032 (USD Billion)

TABLE 5. Global Agricultural Sprayers Market Estimates & Forecasts by Power Source  
2022-2032 (USD Billion)

TABLE 6. Global Agricultural Sprayers Market Estimates & Forecasts by Farm Size  
2022-2032 (USD Billion)

TABLE 7. Global Agricultural Sprayers Market Estimates & Forecasts by Application  
2022-2032 (USD Billion)

TABLE 8. U.S. Agricultural Sprayers Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 9. Canada Agricultural Sprayers Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 10. U.K. Agricultural Sprayers Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 11. Germany Agricultural Sprayers Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 12. France Agricultural Sprayers Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 13. Spain Agricultural Sprayers Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 14. Italy Agricultural Sprayers Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 15. China Agricultural Sprayers Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 16. India Agricultural Sprayers Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 17. Japan Agricultural Sprayers Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 18. Australia Agricultural Sprayers Market Estimates & Forecasts, 2022-2032 (USD Billion)

TABLE 19. South Korea Agricultural Sprayers Market Estimates & Forecasts,  
2022-2032 (USD Billion)

TABLE 20. Brazil Agricultural Sprayers Market Estimates & Forecasts, 2022-2032 (USD  
Billion)

.....

This list is not complete; the final report does contain more than 100 tables. The list may  
be updated in the final deliverable.

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Agricultural Sprayers Market, Research Methodology
- FIG 2. Global Agricultural Sprayers Market, Market Estimation Techniques
- FIG 3. Global Market Size Estimates & Forecast Methods
- FIG 4. Global Agricultural Sprayers Market, Key Trends 2023
- FIG 5. Global Agricultural Sprayers Market, Growth Prospects 2022-2032
- FIG 6. Global Agricultural Sprayers Market, Porter's 5 Force Model
- FIG 7. Global Agricultural Sprayers Market, PESTEL Analysis
- FIG 8. Global Agricultural Sprayers Market, Value Chain Analysis
- FIG 9. Global Agricultural Sprayers Market by Segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Agricultural Sprayers Market by Type, 2022 & 2032 (USD Billion)
- FIG 11. Global Agricultural Sprayers Market by Nozzle Type, 2022 & 2032 (USD Billion)
- FIG 12. Global Agricultural Sprayers Market by Power Source, 2022 & 2032 (USD Billion)
- FIG 13. Global Agricultural Sprayers Market by Farm Size, 2022 & 2032 (USD Billion)
- FIG 14. Global Agricultural Sprayers Market by Application, 2022 & 2032 (USD Billion)
- FIG 15. North America Agricultural Sprayers Market 2022 & 2032 (USD Billion)
- FIG 16. Europe Agricultural Sprayers Market 2022 & 2032 (USD Billion)
- FIG 17. Asia Pacific Agricultural Sprayers Market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Agricultural Sprayers Market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Agricultural Sprayers Market 2022 & 2032 (USD Billion)
- FIG 20. Global Agricultural Sprayers Market, Company Market Share Analysis (2023)

.....

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