

# **Foliar Spray Market Forecasts to 2032 – Global Analysis By Type (Nitrogenous, Phosphatic, Potassic and Other Types), Crop Type, Ingredient, Formulation, Application and By Geography**

<https://marketpublishers.com/r/F544DB431905EN.html>

Date: April 2025

Pages: 150

Price: US\$ 4,150.00 (Single User License)

ID: F544DB431905EN

## **Abstracts**

According to Statistics MRC, the Global Foliar Spray Market is accounted for \$8.43 billion in 2025 and is expected to reach \$13.99 billion by 2032 growing at a CAGR of 7.5% during the forecast period. The purpose of a foliar spray is to improve nutrient absorption and pest management by directly applying a liquid fertiliser or pesticide to plant leaves. Bypassing soil inadequacies, it enables quick nutrient uptake through stomata and epidermal cells. This technique enhances plant growth, health, and yield, particularly in situations when soil conditions limit the availability of nutrients. Essential components including as micronutrients, phosphate, and nitrogen are frequently present in foliar sprays. For effective plant feeding and disease control, they are frequently utilised in hydroponics, horticulture, and agriculture.

According to the Ministry of Agriculture and Farmers Welfare, during the fiscal year 2019, the volume of horticulture production in India was over 313 million metric ton.

Market Dynamics:

Driver:

Increasing demand for high-quality crop yields

Foliar sprays are being used by farmers to increase plant health and nutrient absorption. Higher crop yield results from the quicker and more effective fertiliser

delivery provided by these sprays. Their popularity is also aided by growing worries about nutrient inadequacies and soil deterioration. Bio-based and micronutrient-rich advanced formulations are becoming more and more popular. Consequently, the market for foliar sprays is growing to satisfy the rising need for high-yield and sustainable farming solutions.

#### Restraint:

##### Limited nutrient application scope

The overall efficiency of some macronutrients, such as potassium and phosphorus, is decreased when given topically. Foliar sprays cannot completely replace soil or root-based fertilisation techniques due to this constraint. In order to guarantee complete plant nutrition, farmers may choose to use different nutrient delivery methods. Furthermore, uneven crop yields may result from the inefficiency of some foliar-applied fertilisers. In the end, these issues impede the market's expansion and foliar spray solutions' rates of acceptance.

#### Opportunity:

##### Organic and sustainable agriculture boom

Foliar sprays are becoming more and more popular among farmers because they improve nutrient absorption and slow down soil deterioration. By reducing chemical runoff and enhancing plant health organically, these sprays promote environmentally responsible farming. Adoption of sustainable foliar fertilisers is further fuelled by rising customer demand for organic food. Bio-based foliar spray innovations are increasing product availability and boosting effectiveness.

#### Threat:

##### Farmer awareness and training gaps

Ineffective use and subpar results are caused by the fact that many farmers are not properly trained in suitable application practices. The use of foliar sprays is further discouraged by false beliefs that they are hazardous or useless. Farmers are not aware of improved formulations and their benefits due to a lack of instructional programs and inadequate extension services. Inadequate training leads to inaccurate dosages, which harm crops or reduce output and undermine consumer confidence in the product. As a

result, despite its potential advantages, the foliar spray sector finds it difficult to grow.

### Covid-19 Impact

The COVID-19 pandemic significantly disrupted the foliar spray market due to supply chain challenges, labor shortages, and restrictions on agricultural activities. Lockdowns hindered raw material procurement and distribution, causing price fluctuations. However, increased awareness of food security and sustainable farming boosted demand for foliar sprays to enhance crop yield and resilience. As economies recovered, market growth rebounded, driven by technological advancements and government support for agricultural productivity. The post-pandemic shift toward precision farming further fueled demand for efficient foliar application solutions.

The nitrogenous segment is expected to be the largest during the forecast period

The nitrogenous segment is expected to account for the largest market share during the forecast period, due to improved crop yields through rapid nutrient absorption. It provides essential nitrogen directly to leaves, ensuring faster metabolic activities and increased chlorophyll production. Farmers prefer nitrogen-based foliar sprays due to their effectiveness in correcting nutrient deficiencies and boosting plant resistance to environmental stress. The rising demand for high-efficiency fertilizers and sustainable agricultural practices further accelerates market growth. Additionally, advancements in precision farming and liquid fertilizer technologies continue to expand the adoption of nitrogenous foliar sprays.

The fruits & vegetables segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the fruits & vegetables segment is predicted to witness the highest growth rate, due to the rising demand for high-yield and quality produce. Farmers increasingly adopt foliar sprays to enhance nutrient absorption, improve resistance to pests and diseases, and boost crop productivity. The growing preference for organic and residue-free farming further fuels the need for specialized foliar fertilizers. Climate change and soil degradation have also intensified the reliance on foliar sprays for rapid nutrient delivery. Additionally, expanding global exports of fruits and vegetables necessitate superior crop management practices, accelerating market growth.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share due to the rising adoption of sustainable agricultural practices. Countries like China, India, and Japan are driving market expansion with the adoption of innovative agrochemical solutions. The rising focus on sustainable farming and organic food production further boosts demand for foliar sprays. Additionally, government initiatives supporting modern agricultural techniques and the growing need for crop protection enhance market opportunities. Technological advancements in formulation and application methods also contribute to the market's positive outlook.

#### Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to the rising demand for high-efficiency fertilizers and increasing awareness about sustainable farming practices. Farmers are adopting foliar sprays to enhance crop yield, improve nutrient absorption, and optimize plant growth. The region's advanced agricultural sector, combined with technological innovations in micronutrient formulations, is driving market expansion. The United States and Canada are key contributors, with strong investments in precision farming and organic agriculture. Additionally, the growing focus on food security and environmental sustainability is accelerating the adoption of foliar sprays across various crops.

#### Key players in the market

Some of the key players profiled in the Foliar Spray Market include Nutrien Ltd., Yara International ASA, ICL Group Ltd., Coromandel International Limited, Haifa Chemicals Ltd., K+S Aktiengesellschaft, EuroChem Group AG, FMC Corporation, The Mosaic Company, Andersons Inc., Gujarat State Fertilizers & Chemicals Ltd., TRIBODyn AG, Sico N.V., Sapec Agro S.A., Compo Expert GmbH.

#### Key Developments:

In June 2024, Nutrien Ag Solutions acquired Suncor Energy's AgroScience assets, including several patented and patent-pending biocontrol technologies. This acquisition aligns with Nutrien's strategy to invest in novel biocontrol solutions through its Loveland Products business, aiming to introduce chlorin-based photosensitizers to the global market for integrated pest management.

In December 2024, Yara announced the acquisition of the organic-based fertilizer

business of Italy's Agribios Italiana. This move aims to expand Yara's portfolio in organic-based fertilizers, complementing its mineral fertilizers to promote regenerative agriculture and improve soil health.

In July 2023, Nutrien Ag Solutions collaborated with ZeaKal to commercialize ZeaKal's PhotoSeed™ trait technology for U.S. soybean growers. This technology increases photosynthetic capacity, potentially leading to improved oil and protein content in soybeans.

#### Types Covered:

Nitrogenous

Phosphatic

Potassic

Micronutrients

Biostimulants

Plant Growth Regulators (PGRs)

Other Types

#### Crop Types Covered:

Cereals & Grains

Fruits & Vegetables

Oilseeds & Pulses

Turf & Ornamentals

Other Crop Types

Ingredients Covered:

Synthetic

Organic

Formulations Covered:

Liquid

Powder

Other Formulations

Applications Covered:

Horticultural Crops

Field Crops

Other Applications

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

#### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

#### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

#### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

## Contents

### **1 EXECUTIVE SUMMARY**

### **2 PREFACE**

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
  - 2.4.1 Data Mining
  - 2.4.2 Data Analysis
  - 2.4.3 Data Validation
  - 2.4.4 Research Approach
- 2.5 Research Sources
  - 2.5.1 Primary Research Sources
  - 2.5.2 Secondary Research Sources
  - 2.5.3 Assumptions

### **3 MARKET TREND ANALYSIS**

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Application Analysis
- 3.7 Emerging Markets
- 3.8 Impact of Covid-19

### **4 PORTERS FIVE FORCE ANALYSIS**

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

### **5 GLOBAL FOLIAR SPRAY MARKET, BY TYPE**

- 5.1 Introduction
- 5.2 Nitrogenous
- 5.3 Phosphatic
- 5.4 Potassic
- 5.5 Micronutrients
- 5.6 Biostimulants
- 5.7 Plant Growth Regulators (PGRs)
- 5.8 Other Types

## **6 GLOBAL FOLIAR SPRAY MARKET, BY CROP TYPE**

- 6.1 Introduction
- 6.2 Cereals & Grains
- 6.3 Fruits & Vegetables
- 6.4 Oilseeds & Pulses
- 6.5 Turf & Ornamentals
- 6.6 Other Crop Types

## **7 GLOBAL FOLIAR SPRAY MARKET, BY INGREDIENT**

- 7.1 Introduction
- 7.2 Synthetic
- 7.3 Organic

## **8 GLOBAL FOLIAR SPRAY MARKET, BY FORMULATION**

- 8.1 Introduction
- 8.2 Liquid
- 8.3 Powder
- 8.4 Other Formulations

## **9 GLOBAL FOLIAR SPRAY MARKET, BY APPLICATION**

- 9.1 Introduction
- 9.2 Horticultural Crops
- 9.3 Field Crops
- 9.4 Other Applications

## **10 GLOBAL FOLIAR SPRAY MARKET, BY GEOGRAPHY**

### 10.1 Introduction

### 10.2 North America

#### 10.2.1 US

#### 10.2.2 Canada

#### 10.2.3 Mexico

### 10.3 Europe

#### 10.3.1 Germany

#### 10.3.2 UK

#### 10.3.3 Italy

#### 10.3.4 France

#### 10.3.5 Spain

#### 10.3.6 Rest of Europe

### 10.4 Asia Pacific

#### 10.4.1 Japan

#### 10.4.2 China

#### 10.4.3 India

#### 10.4.4 Australia

#### 10.4.5 New Zealand

#### 10.4.6 South Korea

#### 10.4.7 Rest of Asia Pacific

### 10.5 South America

#### 10.5.1 Argentina

#### 10.5.2 Brazil

#### 10.5.3 Chile

#### 10.5.4 Rest of South America

### 10.6 Middle East & Africa

#### 10.6.1 Saudi Arabia

#### 10.6.2 UAE

#### 10.6.3 Qatar

#### 10.6.4 South Africa

#### 10.6.5 Rest of Middle East & Africa

## **11 KEY DEVELOPMENTS**

### 11.1 Agreements, Partnerships, Collaborations and Joint Ventures

### 11.2 Acquisitions & Mergers

### 11.3 New Product Launch

11.4 Expansions

11.5 Other Key Strategies

## **12 COMPANY PROFILING**

12.1 Nutrien Ltd.

12.2 Yara International ASA

12.3 ICL Group Ltd.

12.4 Coromandel International Limited

12.5 Haifa Chemicals Ltd.

12.6 K+S Aktiengesellschaft

12.7 EuroChem Group AG

12.8 FMC Corporation

12.9 The Mosaic Company

12.10 Andersons Inc.

12.11 Gujarat State Fertilizers & Chemicals Ltd.

12.12 TRIBODyn AG

12.13 Sico N.V.

12.14 Sapec Agro S.A.

12.15 Compo Expert GmbH

## List Of Tables

### LIST OF TABLES

- 1 Global Foliar Spray Market Outlook, By Region (2024-2032) (\$MN)
- 2 Global Foliar Spray Market Outlook, By Type (2024-2032) (\$MN)
- 3 Global Foliar Spray Market Outlook, By Nitrogenous (2024-2032) (\$MN)
- 4 Global Foliar Spray Market Outlook, By Phosphatic (2024-2032) (\$MN)
- 5 Global Foliar Spray Market Outlook, By Potassic (2024-2032) (\$MN)
- 6 Global Foliar Spray Market Outlook, By Micronutrients (2024-2032) (\$MN)
- 7 Global Foliar Spray Market Outlook, By Biostimulants (2024-2032) (\$MN)
- 8 Global Foliar Spray Market Outlook, By Plant Growth Regulators (PGRs) (2024-2032) (\$MN)
- 9 Global Foliar Spray Market Outlook, By Other Types (2024-2032) (\$MN)
- 10 Global Foliar Spray Market Outlook, By Crop Type (2024-2032) (\$MN)
- 11 Global Foliar Spray Market Outlook, By Cereals & Grains (2024-2032) (\$MN)
- 12 Global Foliar Spray Market Outlook, By Fruits & Vegetables (2024-2032) (\$MN)
- 13 Global Foliar Spray Market Outlook, By Oilseeds & Pulses (2024-2032) (\$MN)
- 14 Global Foliar Spray Market Outlook, By Turf & Ornamentals (2024-2032) (\$MN)
- 15 Global Foliar Spray Market Outlook, By Other Crop Types (2024-2032) (\$MN)
- 16 Global Foliar Spray Market Outlook, By Ingredient (2024-2032) (\$MN)
- 17 Global Foliar Spray Market Outlook, By Synthetic (2024-2032) (\$MN)
- 18 Global Foliar Spray Market Outlook, By Organic (2024-2032) (\$MN)
- 19 Global Foliar Spray Market Outlook, By Formulation (2024-2032) (\$MN)
- 20 Global Foliar Spray Market Outlook, By Liquid (2024-2032) (\$MN)
- 21 Global Foliar Spray Market Outlook, By Powder (2024-2032) (\$MN)
- 22 Global Foliar Spray Market Outlook, By Other Formulations (2024-2032) (\$MN)
- 23 Global Foliar Spray Market Outlook, By Application (2024-2032) (\$MN)
- 24 Global Foliar Spray Market Outlook, By Horticultural Crops (2024-2032) (\$MN)
- 25 Global Foliar Spray Market Outlook, By Field Crops (2024-2032) (\$MN)
- 26 Global Foliar Spray Market Outlook, By Other Applications (2024-2032) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

## I would like to order

Product name: Foliar Spray Market Forecasts to 2032 – Global Analysis By Type (Nitrogenous, Phosphatic, Potassic and Other Types), Crop Type, Ingredient, Formulation, Application and By Geography

Product link: <https://marketpublishers.com/r/F544DB431905EN.html>

Price: US\$ 4,150.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/F544DB431905EN.html>