

Herbicide Market - Strategic Insights and Forecasts (2026-2031)

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Abstracts

The Herbicide market is forecast to grow at a CAGR of 5.4%, reaching USD 67.1 billion in 2031 from USD 51.5 billion in 2026.

The global herbicide market is positioned at the intersection of agricultural productivity imperatives and evolving sustainability demands. Herbicides play a critical role in modern farming by enabling effective weed control to support higher crop yields. This market is underpinned by macro drivers such as rising global food demand, an expanding population, and technological innovation in weed control. At the same time, regulatory scrutiny and environmental concerns are reshaping product development and adoption patterns. The industry's strategic focus is on balancing yield enhancement with environmental stewardship to meet the needs of diverse agricultural systems worldwide.

Market Drivers

Growing global demand for food production is driving herbicide adoption, particularly as arable land becomes increasingly scarce and labour costs rise. Herbicides help farmers maximize yield by controlling weeds that compete for water, nutrients, and sunlight. The intensification of farming practices in emerging economies is pushing demand upward, especially in Asia-Pacific, where large agricultural sectors are adapting modern crop protection solutions.

Adoption of precision agriculture technologies is another key driver. Tools such as AI-enabled weed detection and targeted spraying systems improve efficiency and reduce chemical use while supporting sustainable practices. Farmers are also increasingly interested in eco-friendly formulations, including bioherbicides and products with

reduced environmental impact. This trend is partially driven by consumer preferences for sustainably produced food and by regulatory encouragement for lower-impact crop protection products.

Expansion in high-value crop cultivation such as fruits, vegetables, and commercial crops bolsters herbicide demand. These crops often require tailored weed management strategies, making advanced herbicide solutions an essential input. Additionally, growth in turf, ornamental, and non-agricultural applications further diversifies market opportunities.

Market Restraints

Despite robust demand drivers, the herbicide market faces material restraints. Environmental and health concerns associated with synthetic herbicide use have prompted stringent regulatory frameworks in many developed markets. These regulations increase time to approval and cost for new products, slowing innovation and market entry.

Public scrutiny regarding chemical residues in the food chain and potential ecological impacts has led to heightened consumer awareness and, in some cases, reduced acceptance of conventional products. This dynamic pushes manufacturers to invest in alternative solutions, but transitioning to these products can slow growth in traditional segments.

Price volatility of key raw materials used in herbicide formulations can also affect market stability. Supply chain disruptions, fluctuating energy prices, and trade policy shifts add complexity to production planning and cost management for market participants.

Technology and Segment Insights

The herbicide market is segmented by type, application, crop type, and geography. Selective and non-selective herbicides represent key product categories. Selective herbicides, which target specific weed species while sparing crops, are particularly critical in row-crop agriculture. Non-selective variants are widely used in non-crop lands and industrial settings.

Application methods include chemigation, foliar spraying, fumigation, and soil treatment. Soil treatment remains a dominant method due to its effectiveness in early season weed control. However, advancements in foliar and precision application techniques are

gaining traction, especially in regions prioritizing reduced chemical use.

Crop type segmentation spans commercial crops, fruits and vegetables, grains and cereals, pulses and oilseeds, and turf and ornamental. Commercial crops and grains command significant usage due to their scale of cultivation and susceptibility to weed competition. Emerging applications in specialty crops signal growth potential in niche areas.

Technological advancements such as automated spraying systems and drone-assisted application are improving efficiency and reducing labour dependence. Research into bioherbicides and integrated weed management platforms reflects the industry's response to sustainability pressures.

Competitive and Strategic Outlook

The competitive landscape of the herbicide market features major agribusiness players such as ADAMA Agricultural Solutions Ltd, Corteva Agriscience, and FMC Corporation. These companies are strategically expanding their portfolios through innovation and product launches tailored to regional needs and regulatory environments.

Strategic initiatives include partnerships and R&D investments focused on next-generation herbicide solutions. Companies are also enhancing supply chain resilience and geographic reach to capture growth across North America, Europe, Asia-Pacific, Latin America, and the Middle East and Africa.

Emerging market entrants with niche, eco-friendly offerings are gaining attention, pushing incumbents to diversify product lines. Sustainability and digital agriculture integration continue to shape competitive dynamics.

The global herbicide market is positioned for steady growth through 2031, supported by fundamental agricultural drivers and evolving technology trends. While environmental and regulatory challenges persist, opportunities in precision agriculture and sustainable product segments offer pathways for innovation and differentiation.

Key Benefits of this Report

Insightful Analysis: Gain detailed market insights across regions, customer segments, policies, socio-economic factors, consumer preferences, and industry verticals.

Competitive Landscape: Understand strategic moves by key players to identify optimal market entry approaches.

Market Drivers and Future Trends: Assess major growth forces and emerging developments shaping the market.

Actionable Recommendations: Support strategic decisions to unlock new revenue streams.

Caters to a Wide Audience: Suitable for startups, research institutions, consultants, SMEs, and large enterprises.

What Businesses Use Our Reports For

Industry and market insights, opportunity assessment, product demand forecasting, market entry strategy, geographical expansion, capital investment decisions, regulatory analysis, new product development, and competitive intelligence.

Report Coverage

Historical Data: 2021-2024, Base Year: 2025, Forecast Years: 2026-2031

Growth opportunities, challenges, supply chain outlook, regulatory framework, and trend analysis

Competitive positioning, strategies, and market share evaluation

Revenue growth and forecast assessment across segments and regions

Company profiling including strategies, products, financials, and key developments

Contents

1. INTRODUCTION

- 1.1. Market Overview
- 1.2. Market Definition
- 1.3. Scope of the Study
- 1.4. Market Segmentation
- 1.5. Currency
- 1.6. Assumptions
- 1.7. Base and Forecast Years Timeline
- 1.8. Key benefits for the stakeholders

2. RESEARCH METHODOLOGY

- 2.1. Research Design
- 2.2. Research Process

3. EXECUTIVE SUMMARY

- 3.1. Key Findings
- 3.2. Analyst View

4. MARKET DYNAMICS

- 4.1. Market Drivers
- 4.2. Market Restraints
 - 4.2.1. Threats from Substitutes
- 4.3. Porter's Five Forces Analysis
 - 4.3.1. Bargaining Power of Suppliers
 - 4.3.2. Bargaining Power of Buyers
 - 4.3.3. The Threat of New Entrants
 - 4.3.4. Threat of Substitutes
 - 4.3.5. Competitive Rivalry in the Industry
- 4.4. Industry Value Chain Analysis

5. HERBICIDE MARKET BY TYPE

- 5.1. Introduction

- 5.2. Selective Herbicides
- 5.3. Non-Selective Herbicides

6. HERBICIDE MARKET BY APPLICATION

- 6.1. Introduction
- 6.2. Chemigation
- 6.3. Foliar
- 6.4. Fumigation
- 6.5. Soil Treatment

7. HERBICIDE MARKET BY CROP TYPE

- 7.1. Introduction
- 7.2. Commercial Crops
- 7.3. Fruits & Vegetables
- 7.4. Grains & Cereals
- 7.5. Pulses & Oilseeds
- 7.6. Turf & Ornamental

8. HERBICIDE MARKET BY GEOGRAPHY

- 8.1. Global Overview
- 8.2. North America
 - 8.2.1. United States
 - 8.2.2. Canada
 - 8.2.3. Mexico
- 8.3. South America
 - 8.3.1. Brazil
 - 8.3.2. Argentina
 - 8.3.3. Rest of South America
- 8.4. Europe
 - 8.4.1. United Kingdom
 - 8.4.2. Germany
 - 8.4.3. France
 - 8.4.4. Italy
 - 8.4.5. Spain
 - 8.4.6. Rest of Europe
- 8.5. Middle East and Africa

- 8.5.1. Saudi Arabia
- 8.5.2. United Arab Emirates
- 8.5.3. Rest of the Middle East and Africa

8.6. Asia-Pacific

- 8.6.1. China
- 8.6.2. India
- 8.6.3. Japan
- 8.6.4. South Korea
- 8.6.5. Taiwan
- 8.6.6. Thailand
- 8.6.7. Indonesia
- 8.6.8. Rest of Asia-Pacific

9. COMPETITIVE ENVIRONMENT AND ANALYSIS

- 9.1. Major Players and Strategy Analysis
- 9.2. Market Share Analysis
- 9.3. Mergers, Acquisitions, Agreements, and Collaborations
- 9.4. Competitive Dashboard

10. COMPANY PROFILES

- 10.1. ADAMA Agricultural Solutions Ltd
- 10.2. BASF SE
- 10.3. Bayer AG
- 10.4. Corteva Agriscience
- 10.5. FMC Corporation
- 10.6. Jiangsu Yangnong Chemical Co. Ltd
- 10.7. Nufarm Ltd
- 10.8. Sumitomo Chemical Co. Ltd
- 10.9. Syngenta Group
- 10.10. UPL Limited

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