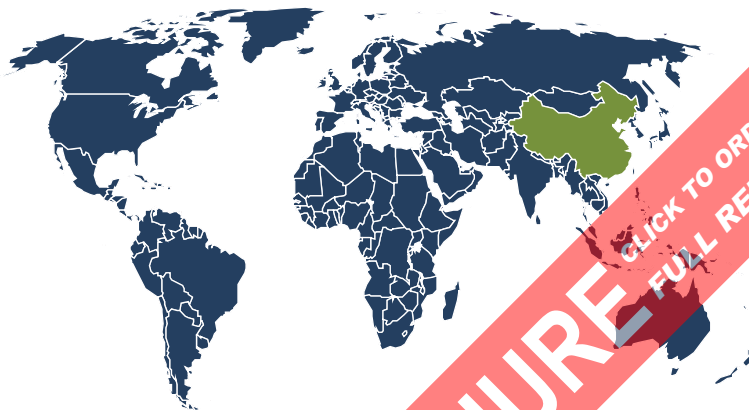




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# Pesticides: China

August 2021



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# Table of Contents

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<b>1. Highlights</b>	<b>3</b>
<b>2. Market Environment</b>	<b>5</b>
Historical Trends	5
Key Economic Indicators	7
Impact of COVID-19	8
Sustainability Initiatives	10
<b>3. Segmentation &amp; Forecasts</b>	<b>12</b>
Products	12
Insecticides	14
Herbicides	15
Fungicides	17
Other Pesticides	18
Markets	20
Agricultural	21
Commercial	22
Consumer	23
Supply & Demand	25
<b>4. Industry Structure</b>	<b>27</b>
Industry Characteristics	27
Market Leaders	28
Bayer	29
China National Chemical (中国化工集团公司)	30
FMC	31
<b>5. About This Report</b>	<b>32</b>
Scope	32
Sources	32
Industry Codes	33
Freedonia Methodology	33
Resources	35

# List of Tables & Figures

---

Figure 1   China: Key Trends in Pesticides Demand, 2020 – 2025	3
Figure 2   China: Pesticides Demand Trends, 2010 – 2020	5
Table 1   China: Key Indicators for Pesticides Demand, 2010 – 2025 (2019US\$ bil)	7
Figure 3   China: Pesticides Demand by Product, 2010 – 2025 (US\$ bil)	12
Table 2   China: Pesticides Demand by Product, 2010 – 2025 (US\$ mil)	12
Figure 4   China: Pesticides Demand by Product, 2010 – 2025 (%)	14
Table 3   Types of Other Pesticides	18
Figure 5   China: Pesticides Demand by Market, 2010 – 2025 (US\$ bil)	20
Table 4   China: Pesticides Demand by Market, 2010 – 2025 (US\$ mil)	20
Figure 6   China: Pesticides Demand by Market, 2010 – 2025 (%)	24
Figure 7   China: Pesticides Supply & Demand, 2010 – 2025 (US\$ bil)	25
Table 5   China: Pesticides Supply & Demand, 2010 – 2025 (US\$ mil)	25
Table 6   China: Selected Suppliers to the Pesticides Market by Product	28
Table 7   HS Codes Related to Pesticides	33

# About This Report

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## Scope

This report forecasts to 2025 pesticides (农药) demand and production in nominal US dollars at the manufacturer level in China. Total demand is segmented by product in terms of:

- insecticides
- herbicides
- fungicides
- other pesticides such as desiccants, fumigants, and silvicides

Total demand is also segmented by market as follows:

- agricultural
- commercial
- consumer

To illustrate historical trends, total demand is provided in annual series from 2010 to 2020; production and the various segments are reported at five-year intervals for 2010, 2015, and 2020.

Bulk commodities used as pesticides, such as copper, sulfur, and petroleum oils, are excluded from the scope of this report. Other excluded products include wood preservatives, as well as disinfectants and antimicrobials.

For any given historical year, US dollar amounts are obtained from values expressed in the applicable local currency. These local currency values are converted to US dollars at the average annual exchange rate for that year. For forecast years, the US dollar amounts assume the same annual exchange rate as that prevailing in 2020.

Key macroeconomic indicators are also provided with quantified trends. Other various topics, including profiles of pertinent leading companies, are covered in this report. A full outline of report items by page is available in the Table of Contents.

## Sources

*Pesticides: China* (FC35048) is based on *Global Pesticides*, a comprehensive industry study published by The Freedonia Group. Reported findings represent the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources, such as:

- firms participating in the industry, and their suppliers and customers

- government/public agencies
- intergovernmental and non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

## Industry Codes

**Table 7 | HS Codes Related to Pesticides**

HS Codes	Definition
3808.91	Insecticides
3808.92	Fungicides
3808.93	Herbicides, anti-sprouting products and plant-growth regulators
3808.99	Other pesticides

Source: United Nations Statistics Division

## Freedonia Methodology

The Freedonia Group, a subsidiary of MarketResearch.com, has been in business for more than 30 years and in that time has developed a comprehensive approach to data analysis that takes into account the variety of industries covered and the evolving needs of our customers.

Every industry presents different challenges in market sizing and forecasting, and this requires flexibility in methodology and approach. Freedonia methodology integrates a variety of quantitative and qualitative techniques to present the best overall picture of a market's current position as well as its future outlook: When published data are available, we make sure they are correct and representative of reality. We understand that published data often have flaws either in scope or quality, and adjustments are made accordingly. Where no data are available, we use various methodologies to develop market sizing (both top-down and bottom-up) and then triangulate those results to come up with the most accurate data series possible. Regardless of approach, we also talk to industry participants to verify both historical perspective and future growth opportunities.

Methods used in the preparation of Freedonia market research include, but are not limited to, the following activities: comprehensive data mining and evaluation, primary research, consensus forecasting and analysis, ratio analysis using key indicators, regression analysis, end use growth indices and intensity factors, purchase power parity adjustments for global

data, consumer and end user surveys, market share and corporate sales analysis, product lifespan analysis, product or market life cycle analysis, graphical data modeling, long-term historical trend analysis, bottom-up and top-down demand modeling, and comparative market size ranking.

Freedonia quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or  $r^2$ . The most stable data series relative to the trend carries an  $r^2$  value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

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## Resources

### The Freedonia Group

*Global Pesticides*

### Freedonia Industry Studies

*Global Agricultural Equipment*

*Global Fertilizers*

*Global Power Lawn & Garden Equipment*

*Home & Garden Pesticides*

*Lawn & Garden Consumables*

*Lawn & Garden Consumer Insights: The Home Gardener*

*Lawn & Garden Fertilizers*

*Lawn & Garden Mulch*

*Lawn & Garden Seeds*

*Power Lawn & Garden Equipment*

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*Pesticides: Canada*

*Pesticides: Europe*

*Pesticides: United States*

*Snack Foods: United States*

*Soybean Products: United States*

*Tobacco Products: United States*

*Wine: United States*

### Freedonia Custom Research

### Trade Publications

*Ag News*

*AgWeb*

*C&EN*

*Chemical Week*

*Chemistry World*

*CropLife*

*ICIS*

## **Agencies & Associations**

Beyond Pesticides

CropLife International

Federation of Asian and Oceania Pest Managers Associations

Food and Agriculture Organization of the United Nations

Ministry of Ecology and Environment – The People’s Republic of China

Pesticide Action Network

Soil Association

United Nations Comtrade