

# Atrazine Market and Production in China 2023

The Tenth Edition

February 2024

**Researched & Prepared by:**

**Kcomber Inc.**

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## 1. Introduction

Atrazine, a triazine herbicide, is widely used worldwide, due to its good herbicidal effect, safety to crops and economical price. China's atrazine is export-oriented, with annual export volume of atrazine technical and formulations accounting for a large share of the domestic annual output every year. In China, atrazine formulations, mainly including 38% SC, 50% SC, 80% WP and 90% WDG, are for domestic application.

In order to help industry players find more opportunities in China's atrazine market, CCM has carried out a comprehensive analysis on atrazine industry, including registration, production, producers, export, consumption, price change, as well as its competing products in China. This report can guide investments and business movements for players who pay close attention to the atrazine industry.

Atrazine Market and Production in China is CCM's tenth edition report on China's atrazine industry, finished in Feb. 2024.

- √ Position of atrazine in Chinese herbicide industry
- √ Registration of atrazine in China, as of 2 Feb., 2024
- √ Capacity and output of atrazine technical in China, 2020–2023E
- √ Capacity and output of major atrazine technical producers in China, 2020–2023E
- √ Price of atrazine in China in 2020–2023
- √ Export analysis of atrazine products in China, 2020–Oct. 2023
- √ Apparent consumption of atrazine in China, 2020–2023E
- √ Actual consumption volume of major atrazine formulations in China, 2020–2023E
- √ Comparison among atrazine and its major substitutes in China, 2023

## 2. Approach for this report

*Atrazine Market and Production in China* is CCM's tenth edition report on China's atrazine industry, finished in Feb. XXXX.

### Methodology and source

#### Desk research

Sources of desk research are various including published magazines, journals, government statistics, industrial statistics, customs statistics, association seminars as well as information from the Internet. A lot of work has been done to compile and analyse the information obtained. When necessary, checks were made with Chinese market players regarding market information such as production, demand, and competition.

#### Telephone interviews

CCM carried out extensive telephone interviews with major participants in the industry chain of the products mentioned in this report throughout upstream to downstream.

The interviewees cover:

- Manufacturers
- Traders
- Industrial associations
- Local governments
- Researchers and experts
- Farmers

#### Data processing and presentation

The data collected and compiled are sourced from:

- Published articles from Chinese periodicals, magazines, and journals
- Government statistics & customs statistics
- Telephone interviews with Chinese manufacturers, traders, government and farmers
- Comments from industrial experts
- CCM's database
- Information from the Internet

- Third-party databases

The data from various channels have been combined to make this report as precise and scientific as possible. Throughout the process, a series of internal discussions have been held in order to analyse the data and draw conclusions from them.

### **Definition and glossary**

In this report, atrazine technical refers to XX% atrazine technical (TC); atrazine formulations refer to atrazine XX% SC, atrazine XX% WP, atrazine XX% SC, atrazine XX% WP and atrazine XX% WDG; when "atrazine" is mentioned, it includes both atrazine technical and atrazine formulations.

Apparent consumption equals production + import - export, which is one of the factors reflecting demand. Assuming the inventory stays the same every year, the apparent consumption also equals to the actual consumption.

### **Unit**

USD: US dollar, currency unit in the US

RMB: currency unit in China, also named Renminbi

Tonne: ton, equals to metric ton in this report

/t: per tonne

t/a: tonne per year, tonne/annum

*Source:CCM*

*Source:The People's Bank of China*

### 3. Executive summary

Atrazine, a triazine herbicide, is widely used worldwide, due to its good herbicidal effect, safety to crops and cost-effectiveness. China is not only a big atrazine consumer, but also a key supplier.

#### - Production

During XXXX–XXXX, the capacity of atrazine technical remained at XXX,XXX t/a. The output of atrazine technical dropped in XXXX after a short-term recovery in XXXX, with the output reaching XX,XXX tonnes, down by around XX% YoY.

#### - Import & export

China's atrazine is export-oriented. Export volume of atrazine technical and formulations (converted to XXX% technical) usually takes a large proportion of the domestic annual output; the figure was some XX% in XXXX–XXXX. The export volume of atrazine products in China in Jan.–Oct. XXXX was only XX,XXX tonnes, down by XX.XX% YoY. Argentina was the largest importer of China's atrazine products during this period, accounting for XX.XX% of the total.

#### - Price

The ex-work price of atrazine technical increased since HX XXXX, resulting from higher cost of its intermediates like cyanuric chloride, ethylamine and isopropylamine. Along the journey to recovery, it first climbed quietly then shot up in late XXXX. In XXXX, the price first kept stable in HX and then slipped, along with the price of its key raw material—cyanuric chloride stayed quite high.

#### - Consumption

In XXXX, the actual domestic consumption volume of atrazine formulations is expected to stand at XX,XXX tonnes (converted to XXX% technical) and it sees a XX.XX% year-on-year increase, due to the increasing corn-growing areas under food security policy in China.

#### 4. What is in the report?

Note: Key data/information in this sample page is hidden, while in the report it is not.

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### 1.1 Brief introduction to pesticide industry in China

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Table 1.1-1 China's imports and exports of pesticides and herbicides, 2018–2022

Year	Pesticides				Herbicides				Share of herbicides/pesticides				
	Import		Export		Import		Export		Import		Export		
	Volume, tonne	Value, million USD	Volume, tonne	Value, million USD	Volume, tonne	Value, million USD	Volume, tonne	Value, million USD	Volume	Value	Volume	Value	
XXXX	XXXXXX X	XXX	XXXXXXXX XX	XXXX X	XXXXX X	XXX	XXXXXXXX	XXXX X	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX
XXXX	XXXXXX X	XXX	XXXXXXXX XX	XXXX X	XXXXX X	XXX	XXXXXXXX	XXXX X	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX
XXXX	XXXXXX XX	XXX	XXXXXXXX XX	XXXX X	XXXXX X	XX	XXXXXXXX XX	XXXX X	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX
XXXX	XXXXXX XX	XXX	XXXXXXXX XX	XXXX X	XXXXX X	XXX	XXXXXXXX XX	XXXX X	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX
XXXX	XXXXXX X	XXX	XXXXXXXX XX	XXXX XX	XXXXX X	XXX	XXXXXXXX XX	XXXX X	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX

Source: National Bureau of Statistics of China

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## 2 Registration of atrazine in China

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Table 2-1 Annual new registrations of atrazine in China, as of 2 Feb., 2024

Year	Technical	Formulations	XXXXX
XXXXXX XXXX	XX	XXX	XXX
XXXX	X	XXX	XXX
XXXX	X	XX	XX
XXXX	X	XXX	XXX
XXXX	X	XXX	XXX
XXXX	X	X	X
XXXX	X	XX	XX
XXXX	X	XX	XX
XXXX	X	X	X
XXXX	X	XX	XX
XXXXX	XX	XXXXX	XXXXX

Source: The Institute for the Control of Agrochemicals, Ministry of Agriculture of the People's Republic of China (ICAMA)

Table 2-2 Registrations of atrazine technical in China, as of 2 Feb., 2024

No.	Registration code	Registrant	Registrant (CN)	Content	Expiry date
X	XXXXXXXXXX	XXXXXXXXXX XXXXXXXXX XXXXXXXXXX XXXX XXXX	XXXXXXXXXXXX	XXX	XXXXXXXXXX
X	XXXXXXXXXX	XXXXX XXXXXXXXXX XXXXXXXXX XXXX XXXX	XXXXXXXXXXXX	XXX	XXXXXXXXXX
X	XXXXXXXXXX	XXXXXXXXXX XXXXXXXX XXXXXXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXX	XXX	XXXXXXXXXX
X	XXXXXXXXXX	XXXXX XXXXXXXXX XXXXXXXXX XXXX XXXX	XXXXXXXXXXXX	XXX	XXXXXXXXXX
X	XXXXXXXXXX	XXXXXXX XXXXXX XXXXXXXXXXXXXXX XXXXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXX	XXX	XXXXXXXXXX



X	XXXXXXXXXX	XXXXX XXXXXXXX XXXXXXXXX XXXX XXXXXXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXX	XXX	XXXXXXXXXX
X	XXXXXXXXXX	XXXXXX XXXXXXXXXXX XXXX XXXX	XXXXXXXXXXXX	XXX	XXXXXXXXXX
X	XXXXXXXXXX	XXXXXXXX XXXXXX XXXXXXXXX XXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXX	XXX	XXXXXXXXXX
X	XXXXXXXXXX	XXXXXXXX XXXXX XXXX XXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXX	XXX	XXXXXXXXXX
XX	XXXXXXXXXX	XXXXXXXXXX XXXXXXXXX XXXXXXXXXXXX XXXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXX	XXX	XXXXXXXXXX
XX	XXXXXXXXXX	XXXXXXXX XXXXXX XXXXXXXXX XXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXX	XXX	XXXXXXXXXX
XX	XXXXXXXXXX	XXXXXXXX XXXXXXX XXXXXXX XXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXX	XXX	XXXXXXXXXX
XX	XXXXXXXXXX	XXXXXXXX XXXXXXX XXXXXXXXXXXXXXXX XXXX XXXX	XXXXXXXXXXXX	XXX	XXXXXXXXXX
XX	XXXXXXX	XXXXX XXXXXXX XXXXXXXXXXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXX	XXX	XXXXXXXXXX
XX	XXXXXXXXXX	XXXXXXXX XXXXXXXXX XXXX XXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXX	XXX	XXXXXXXXXX
XX	XXXXXXXXXX	XXXXXXXX XXXXXXXXX XXXXXXXX XXXXXXX XXXXX XXXX XXXX	XXXXXXXXXXXXXXXX	XXX	XXXXXXXXXX
XX	XXXXXXXXXX	XXXXXXXX XXXXXXXXX XXXXX XXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXX	XXX	XXXXXXXXXX
XX	XXXXXXXXXX	XXXXXXXX XXXXXXXXX XXXX XXXX	XXXXXXXX	XXX	XXXXXXXXXX
XX	XXXXXXXXXX	XXXXXX XXXXX XXXXXXXXX XXXX XXXX	XXXXXXXXXXXX	XXX	XXXXXXXXXX
XX	XXXXXXXXXX	XXXXXXXX XX	XXXXXXXXXXXXXXXX	XXX	XXXXXXXXXX

XX	XXXXXXXXXX	XXXXX XXXXX XXXXXXXX XXXXXXXXXXXX XXXXXXXX XXXX XXXX	XXXXXXXXXXXXXXXXXX	XXX	XXXXXXXXXXXX
XX	XXXXXXXXXX	XXXXXXXXXXXXXXX XXXXXXXX XXXXXXXXXXXXXXX XXXX XXXX	XXXXXXXXXXXXXX	XXX	XXXXXXXXXXXX
XX	XXXXXXXXXX	XXXXXXXXXX XXXXXXXX XXXXXXXXXXXXXXX XXXX XXXX	XXXXXXXXXXXXXX	XXX	XXXXXXXXXXXX
XX	XXXXXXXXXX	XXXXXXXXXX XXXXX XXXXXXXX XXXX XXXX	XXXXXXXXXXXXXX	XXX	XXXXXXXXXXXX
XX	XXXXXXXXXX	XXXXXXXXXX XXXXXXXX XXXXXXXXXXXX XX XXXXXXXX XXXXXXXXXX	XXXXXXXXXXXXXX	XXX	XXXXXXXXXXXX

Source: ICAMA & CCM

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### 3.2 Key atrazine technical manufacturers

In XXXX, there were mainly nine companies engaged in the production of atrazine technical in China.

Zhejiang Zhongshan Chemical Industry Group Co., Ltd. and Hebei Lingang Chemical Co., Ltd. are expected to maintain the capacity at XX,XXX t/a for years. Moreover, the EIA approval of Hebei Lingang Chemical Co., Ltd.'s XXX,XXX t/a triazine agrochemical expansion project was publicised on the government website on X Jan., XXXX. With the total investment of USDXX.XX million (RMBXXX million), the project proposed to construct the production capacity of XXX,XXX t/a atrazine technical and XX,XXX t/a for other triazine series agrochemicals.

Table 3.2-1 Capacity and output of major atrazine technical producers in China, 2020–2023E

No.	Producer	Abbreviation	Location	Status, as of Feb., 2024	2023		2022		2021		2020	
					XXXXX XXXX XXX	XXXXX XX XXXXX	XXXXX XXXX XXX	XXXXX XX XXXXX	XXXX XXXX XXX	XXXX XXX XXXXX	XXXX XXX XXXXX	
X	XXXXXXXXX XXXXXXXXX X XXXXXXXXX XXXXXXXXX XXXXX XXXX XXXX	XXXXX XXX XXXXX XXXX	XXXXX XXX	XXXXXX	XXXXX X	XXXXX X	XXXXX X	XXXXX X	XXXXX X	XXXXX X	XXXXX X	XXXXX X
X	XXXXX XXXXXXXXX XXXXXXXXX XXXX XXXX XXXXXXXXX XXX XXXXX XXXXXX XXXXXXXXXX XXXX XXXXX	XXXXX XXXXX XX	XXXXX	XXXXXX	XXXXX X	XXXXX X	XXXXX X	XXXXX X	XXXXX X	XXXXX X	XXXXX X	XXXXX X
X	XXXXXXXXXX XXXXXXXXXX X XXXXX XXXXXXXXXX XXXX XXXX	XXXXX XXX XXXXX XXXX	XXXXX XXX	XXXXXX	XXXXX X	XXXXX	XXXXX X	XXXXX	XXXXX X	XXXXX	XXXXX X	XXXXX
X	XXXXXXXXXX XXXXXXXXXX XX XXXX XXXX XXXXXXXXXX XXX XXXXXXXXXX XXXXXXXXXX X XXXXXXXXXX XXXX XXXXX	XXXXX XXX XXXXX XXX	XXXXX XXX	XXXXXX	XXXXX X	XXXXX	XXXXX X	XXXXX	XXXXX X	XXXXX	XXXXX X	XXXXX
X	XXXXX XXXXX XXXXXXXXXX X XXXX XXXX XXXXXXXXXX XXX XXXXX XXXXXX XXXXXXXXXX X XXXX XXXXX	XXXXX XXXXX	XXXXX	XXXXXX	XXXXX X	XXXXX	XXXXX X	XXXXX	XXXXX X	XXXXX	XXXXX X	XXXXX
X	XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXX XXXXXXXXXX XXXXX XXXXX XXXX XXXX XXXXX	XXXXX XX XXXXX XX	XXXXX XXX	XXXXXX	XXXXX X	XXXXX	XXXXX X	XXXXX	XXXXX X	XXXXX	XXXXX X	XXXXX

X	XXXXXXXXXX XXXXXX XXXXXXXXXX XXXXXXXXXX XXXX XXXX	XXXXXX XXX XXXXXX	XXXXXX XXX	XXXXXXXX	XXXXXX X	XXXXXX	XXXXXX X	XXXXXX	XXXXXX X	XXXXXX	XXXXXX X	XXXXXX
X	XXXXXXXXXX XXXXXX XXXXXXXXXX XX XXXX XXXX	XXXXXX XXX XXXXXX XX	XXXXXX XXX	XXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
X	XXXXXXXXXX XXXXXX XXXXXXXXXX X XXXXXXXXXX XXXX XXXX	XXXXXX XXX XXXXXX X	XXXXXX XXX	XXXX	XXXXXX	X	XXXXXX	X	XXXXXX	X	XXXXXX	X
XX	XXXXXXXXXX XXXXXX XXXXXXXXXX X XXXXXXXXXX XXXX XXXX	XXXXXX XXX XXXXXX X	XXXXXX XXX	XXXXXXXX X	X	X	X	X	X	X	X	X
XXXXXX					XXXXXX XX	XXXXXX X	XXXXXX XX	XXXXXX X	XXXX XXX	XXXX XX	XXXX XXX	XXXX XX

Note: The output and capacity in China in 2023 are estimated.

Source: CCM

...

#### 4.1 Price of atrazine in China, 2020–2023

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Figure 4.1-1 Annual ex-works prices of atrazine technical and cyanuric chloride in China, 2020–2023



Source:CCM

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#### 4.2.1 Details in Jan., 2020–Oct., 2023

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Table 4.2.1-1 China's exports of atrazine by month in Jan.–Oct. 2023, tonne

Month	200g /L SL	38% SC	380g /L SC	50% FW	50% SC	50% WP	500g /L SC	80% WP	90% WDG	95% Tech.	96% Tech.	97% Tech.	98% Tech.	XXXXX volume (converted to 100% AI)	Value (million USD)
XXXX XXX	XXXX X	XXXX XX	XXXX X	XXXX X	XXXX XXX	XXXX X	XXXX X	XXXX XXX	XXXX XXXX X	XXXX XXX	XXXX X	XXXX XXX	XXXX XX	XXXXXXXXXX	XX
XXXX XXXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XX	XXXX X	XXXX X	XXXX XXX	XXXX XXX	XXXX XXX	XXXX X	XXXX XXXX X	XXXX XXX	XXXXXXXXXX	XX
XXXX X	XXXX X	XXXX XX	XXXX X	XXXX X	XXXX XXX	XXXX XX	XXXX X	XXXX XXX	XXXX XXX	XXXX XXX	XXXX XX	XXXX XXX	XXXX XXX	XXXXXXXXXX	X
XXXX X	XXXX X	XXXX X	XXXX XX	XXXX X	XXXX XX	XXXX X	XXXX XXX	XXXX XXXX X	XXXX XXX	XXXX XXX	XXXX XX	XXXX XXXX X	XXXX XX	XXXXXXXXXX	XX
XXX	XXXX XX	XXXX X	XXXX X	XXXX XX	XXXX XXX	XXXX X	XXXX XXX	XXXX XXX	XXXX XXX	XXXX XXX	XXXX X	XXXX XXXX X	XXXX X	XXXXXXXXXX	XX
XXXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XX	XXXX X	XXXX X	XXXX XXX	XXXX XXX	XXXX XX	XXXX X	XXXX XXXX X	XXXX XX	XXXXXXXXXX	XX
XXXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XX	XXXX X	XXXX XXX	XXXX XXX	XXXX XX	XXXX XXX	XXXX X	XXXX XXX	XXXX XX	XXXXXXXXXX	X
XXXX XX	XXXX X	XXXX X	XXXX XX	XXXX XX	XXXX XXX	XXXX X	XXXX XX	XXXX XXX	XXXX XXX	XXXX XXX	XXXX X	XXXX XXX	XXXX XX	XXXXXXXXXX	X
XXXX XXXX X	XXXX X	XXXX X	XXXX XX	XXXX X	XXXX XX	XXXX X	XXXX X	XXXX XXX	XXXX XX	XXXX XXX	XXXX X	XXXX XXX	XXXX X	XXXXXXX	X
XXXX XXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XX	XXXX XXXX X	XXXX X	XXXX XX	XXXX X	XXXXXXXXXX	XX
XXX XX	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXXX XX	XXX XXX	XXX XXXX XX	XXX XXXX XX	XXX XXXX XX	XXX XXXX XX	XXX XXX	XXX XXXX XX	XXX XXXX	XXXXXXXXXX XX	XX X

Note:1. Since April 2020, China's export data are sourced from data of the customs of major destinations; in 2023, only 22 destinations were concluded.

2. All the volumes in the table are based on the actual volume, except where "100% AI" is indicated.

Source:Tranalysis

Table 4.2.1-2 China's exports of atrazine by month in 2022, tonne

Month	38% SC	50% SC	58% SE	80% WP	90% WDG	95% Tech.	97% Tech.	98% Tech.	XXXXX volume (converted to 100% AI)	Value (million USD)
XXXXXX X	XXXXX	XXXXXXXX	XXXXX	XXXXXXXX XX	XXXXXXXX	XXXXXXXX XX	XXXXXXXX XX	XXXXXXXX	XXXXXXXX XXX	XX
XXXXXX XX	XXXXXX	XXXXXX	XXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX XX	XXXXXXXX XX	XXXXXXXX	XXXXXXXX XX	XX
XXXXX	XXXXX	XXXXXX	XXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX XX	XXXXXXXX	XXXXXXXX XX	XX
XXXXX	XXXXXX	XXXXXX	XXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX XX	XXXXXXXX XX	XXXXXX	XXXXXXXX XX	XX
XXX	XXXXX	XXXXXXXX	XXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX XX	XXXXXXXX XX	XXXXXXXX	XXXXXXXX XX	XX
XXXX	XXXXX	XXXXXXXX	XXXXX	XXXXXXXX	XXXXXX	XXXXXXXX XX	XXXXXXXX XX	XXXXXXXX	XXXXXXXX XX	XX
XXXX	XXXXX	XXXXXXXX	XXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX XX	XXXXXXXX XX	XXXXXXXX	XXXXXXXX XX	XX
XXXXXXXX	XXXXX	XXXXXX	XXXXX	XXXXXXXX	XXXXXXXX XX	XXXXXXXX XX	XXXXXXXX XX	XXXXXX	XXXXXXXX XX	XX
XXXXXX XXX	XXXXXX	XXXXXX	XXXXX	XXXXXX	XXXXXXXX XX	XXXXXXXX XX	XXXXXXXX XX	XXXXXX	XXXXXXXX XX	XX
XXXXXX X	XXXXX	XXXXXXXX	XXXXX	XXXXXX	XXXXXXXX XX	XXXXXXXX XX	XXXXXXXX XX	XXXXXX	XXXXXXXX XX	XX
XXXXXX XX	XXXXX	XXXXXXXX	XXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX XX	XXXXXXXX XX	XXXXXX	XXXXXXXX XX	XX
XXXXXX XX	XXXXX	XXXXXXXX	XXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXX	XXXXXXXX XX	XX
XXXXX	XXXXXX	XXXXXX XXX	XXXXXX	XXXXXX XXX	XXXXXX XXX	XXXXXX XXXX	XXXXXX XXXX	XXXXXX XXX	XXXXXX XXXX	XXX

Note:1. Since April 2020, China's export data are sourced from data of the customs of major destinations.

2. All the volumes in the table are based on the actual volume, except where "100% AI" is indicated.

Source:Tranalysis



Table 4.2.1-3 China's exports of atrazine by month, 2021, tonne

Month	38% SC	50% SC	80% WP	90% WDG	95% Tech.	97% Tech.	98% Tech.	XXXXX volume (converted to 100% AI)	Value (million USD)
XXXXXX X	XXXXX	XXXXXXXXX X	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXXX X	XXXXXXXXX	XXXXXXXXXX X	XX
XXXXXX XX	XXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXXX X	XXXXXXXXX	XXXXXXXXXX X	XX
XXXXX	XXXXX	XXXXXXXXX	XXXXXXXXXX X	XXXXXXXXX	XXXXXXXXXX X	XXXXXXXXXX X	XXXXXXXXX	XXXXXXXXXX X	XX
XXXXX	XXXXX	XXXXXXXXX	XXXXXXXXXX X	XXXXXXXXX	XXXXXXXXX	XXXXXXXXXX X	XXXXXXXXX	XXXXXXXXXX X	XX
XXX	XXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXXX X	XXXXXXXXX	XXXXXXXXXX X	X
XXXX	XXXXX	XXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXX	XXXXXXXXXX X	XXXXXX	XXXXXXXXXX X	X
XXXX	XXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXX	XXXXXXXXXX X	XXXXXXXXX	XXXXXXXXXX X	XX
XXXXXX	XXXXXX	XXXXXXXXX	XXXXXX	XXXXXXXXXX X	XXXXXX	XXXXXXXXXX X	XXXXXXXXXX X	XXXXXXXXXX X	XX
XXXXXX XXX	XXXXXX	XXXXXXXXX	XXXXXX	XXXXXXXXX	XXXXXX	XXXXXXXXXX X	XXXXXXXXXX X	XXXXXXXXXX X	XX
XXXXXX X	XXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXX	XXXXXXXXXX X	XXXXXXXXX	XXXXXXXXXX X	XX
XXXXXX XX	XXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXX	XXXXXXXXXX X	XXXXXX	XXXXXXXXXX X	XX
XXXXXX XX	XXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXXXXX	XXXXXX	XXXXXXXXXX X	XXXXXX	XXXXXXXXXX XX	XX
XXXXX	XXXXXX	XXXXXXXXX XX	XXXXXXXXX XX	XXXXXXXXX XX	XXXXXXXXX XX	XXXXXXXXX XXX	XXXXXXXXX XX	XXXXXXXXX XXX	XXX

Note:1. Since April 2020, China's export data are sourced from data of the customs of major destinations.  
 2. All the volumes in the table are based on the actual volume, except where "100% AI" is indicated.  
 Source:Tranalysis

...

Table 4.2.1-4 China's exports of atrazine by destination in 2021, tonne

No.	Destinati on	38% SC	50% SC	80% WP	90% WDG	95% Tech.	97% Tech.	98% Tech.	XXXXX volume (converted to 100% AI)	Valu e (milli on USD)
X	XXXXXX	XXXXX	XXXXXX	XXXXX	XXXXXXXXXX X	XXXXX	XXXXXXXXXX XX	XXXXXXXXXX X	XXXXXXXXXX XX	XX
X	XXXXXXXX XX	XXXXX	XXXXXX	XXXXXX	XXXXXXXXXX	XXXXX	XXXXXXXXXX XX	XXXXXX	XXXXXXXXXX XX	XX
X	XXX XX	XXXXX	XXXXXXXX	XXXXX	XXXXXX	XXXXXXXXXX X	XXXXXXXXXX X	XXXXXX	XXXXXXXXXX XX	XX
X	XXXXXX	XXXXX	XXXXXX	XXXXX	XXXXXX	XXXXXXXXXX X	XXXXXXXXXX X	XXXXXXXXXX X	XXXXXXXXXX X	XX
X	XXXXXXXX X	XXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXXXXXX X	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX X	XX
X	XXXXXXXX	XXXXX	XXXXXXXX	XXXXXXXXXX X	XXXXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXXXXXX X	XX
X	XXXXXX	XXXXX	XXXXXXXX	XXXXXXXXXX X	XXXXXXXXXX X	XXXXXX	XXXXXX	XXXXXX	XXXXXXXXXX X	XX
X	XXXXXX	XXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXXXXXX X	XXXXXX	XXXXXXXXXX X	X
X	XXXXXX	XXXXX	XXXXXXXX	XXXXXXXXXX X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXXXXXX X	X
XX	XXXXXXXX X	XXXXX	XXXXXX	XXXXXX	XXXXXXXXXX X	XXXXXX	XXXXXX	XXXXXX	XXXXXXXXXX X	X
XX	XXXXXX	XXXXX	XXXXXXXX X	XXXXXX	XXXXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXX	XXXXXXXXXX X	X
XX	XXXXXXXX XX	XXXXX	XXXXXXXX	XXXXXX	XXXXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXXXXXX	X
XX	XXXXXXXX	XXXXX	XXXXXX	XXXXXXXX	XXXXXX	XXXXXX	XXXXXXXXXX	XXXXXX	XXXXXXXXXX	X
XX	XXXXXXXX X	XXXXX	XXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXXXXXX	X
XX	XXXXXXXX X	XXXXX	XXXXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXXXXXX	X

XXXXXX	XXXXX X	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXX	XXXXXXXX	XXXXXXXXXX X	X
XXXXX	XXXXX X	XXXXXXXX XX	XXXXXXXX XX	XXXXXXXX XX	XXXXXXXX XX	XXXXXXXX XXX	XXXXXXXX XX	XXXXXXXX XXX	XXX

Note:1. Since April 2020, China's export data are sourced from data of the customs of major destinations.

2. All the volumes in the table are based on the actual volume, except where "100% AI" is indicated.

Source:Tranalysis

...

Table 4.2.1-5 China's exports of atrazine by exporter in Jan.–Oct., 2023, tonne

No.	Exporter	200 g/L SL	38% SC	380 g/L SC	50% FW	50% SC	50% WP	500 g/L SC	80% WP	90% WDG	95% Tech.	96% Tech.	97% Tech.	98% Tech.	XXXX X volume (convert ed to 100% AI)	Value (million USD)
X	XXXXX XXXXXX XXXXXXXX XXXX XXXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XXXX X	XXXX XX	XXXX XX	XXXX X	XXXXX XXXX	XX
X	XXX XXXXXXXX XXX XXXX XXXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XX	XXXX X	XXXX X	XXXX X	XXXX XXXX X	XXXX X	XXXXX XXXX	XX
X	XXXXXXXX XXXXXX XXXXXXXX XXXXXXXX XXXX XXXX	XXXX X	XXXX XX	XXXX X	XXXX X	XXXX XXX	XXXX X	XXXX X	XXXX XXX	XXXX XXX	XXXX XX	XXXX X	XXXX XX	XXXX XXX	XXXXX XXXX	X
X	XXXXXXXX XXXXXXXX X XXXXXXXX XXXXXXXX XXXXX XXXX XXXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XXX	XXXX X	XXXX XX	XXXX XX	XXXX XXX	XXXX X	XXXX XXX	XXXX XXX	XXXX X	XXXXX XXXX	X
X	XXXXXX XXXXX XXXXXXXX X XXXX XXXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XXX	XXXX X	XXXX XX	XXXX X	XXXXX XX	X
X	XXXXXXXX X XXXXXXXX XX XXXX XXXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XXX	XXXX X	XXXXX XX	X
X	XXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	XXXXX	X



	XXXXXXXX XXXXXX	X	X	X	X	X	X	X	X	XXX	X	X	X	X	XX		
X	XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXX XXXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XXX	XXXX XXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XX	X
X	XXXXXXXX XXXXX XXXXXXXX XXXX XXXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XXX	XXXX XX	XXXX X	XXXX X	XXXX XXX	XXXX X	XXXX XX	X	
XX	XXX XXXXXXXX XXXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XXX	XXXX X	XXXX XX	X
XX	XXXXXXXX XXXXXXXX XXXXX XXXX XXXX XXXXXXXX XX XXXX XXXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XX	X
XX	XXXXX XXXXX XXXXX XXXXXXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XX	XXXX X	XXXX X	XXXX XXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XX	X
XX	XXXXX XXXXX XXXXXX XXX XXXXXX XXXX XXXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XX	XXXX X	XXXX X	XXXX XXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XX	X
XX	XXXXX XXXXXX XXXXXXXX XXXXX XXXXXXXX XXX XXXXXXXX X XXXXXXXX XXX XXXXXX XXXX	XXXX XX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XX	X
XX	XXXXXXXX XXXXXXXX XXXXXXXX XXXX XXXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XXX	XXXX XXX	XXXX X	XXXX X	XXXX X	XXXX X	XXXX X	XXXX XX	X
	XXXXXX	XXXX X	XXXX XX	XXXX XX	XXXX XX	XXXX XXX	XXXX XX	XXXX XXX	XXXX XXXX	XXXX XXXX	XXXX XXX	XXXX X	XXXX XXXX	XXXX XX	XXXX XXXX	XXXX XXXX	XX
	XXXXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXXX	XXX XXX	XXX XXXX	XXX XXXX	XXX XXXX	XXX XXXX	XXX XXX	XXX XXXX	XXX XXXX	XXX XXXX	XXX XXXX	XXX

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Note:1. Since April 2020, China's export data are sourced from data of the customs of major destinations; in 2023, only 22 destinations were concluded.

2. All the volumes in the table are based on the actual volume, except where "100% AI" is indicated.

Source:Tranalysis

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Table 4.2.1-6 China's exports of atrazine by exporter in 2020, tonne

No.	Exporter	38% SC	48% WP	50% SC	80% WP	90% WDG	95% Tech.	97% Tech.	98% Tech.	XXXX volume (converted to 100% technical)	Value million USD
X	XXXXXXXX X XXXXXXXX XX XXXXXXXX X XXXXXXXX X XXXX XXXX	XXXXX	XXXX X	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX XX	XXXXXXXX XXX	XXXXX	XXXXXXXX XXX	XX
X	XXXXX XXXXXXXX XXXXXXXX X XXXX XXXX	XXXXX	XXXX X	XXXXX	XXXXX	XXXXXXXX	XXXXXXXX XXX	XXXXXX	XXXXX	XXXXXXXX XXX	XX
X	XXXXXXXX X XXXXXXXX XXXXXXXX XXXXXXXX X XXXX XXXX	XXXXX X	XXXX X	XXXXXXXX	XXXXXXXX	XXXXXXXX XX	XXXXX	XXXXXXXX	XXXXXXXX XX	XXXXXXXX XX	XX
X	XXXXXXXX	XXXXX	XXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	XXXXX	XXXXXXXX	XXXXXXXX	XXXXXXXX	X



	X XXXXXXX XXXXXXX XXX XXXX XXXX	X	X								XX	
X	XXXXXXX X XXXXX XXXXXXX X XXXX XXXX	XXXXXX	XXXXX X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXXX XX	XXXXXX	XXXXXXX XX	X	
X	XXXXXXX XXXX XXXX XXXX	XXXXXX	XXXXX X	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXXX XX	XXXXXX	XXXXXXX XX	X	
X	XXXXXX XXXXXX XXXXXX XXX XXXXXXX XXXX XXXX	XXXXXX	XXXXX X	XXXXXXXX	XXXXXXXX	XXXXXXXX XX	XXXXXXXX	XXXXXX	XXXXXX	XXXXXXX XX	X	
X	XXXXXXX X XXXXX XXXXXXX XXXXXX XXXXX XXXX XXXX	XXXXXX	XXXXX X	XXXXXX	XXXXXX	XXXXXXXX	XXXXXXX XX	XXXXXX	XXXXXX	XXXXXXX XX	X	
X	XXXXXXX X XXXXXXX XX XXXXXXX XX XXXXXX XXX XXXXXX XXXX XXXX	XXXXXX	XXXXX X	XXXXXX	XXXXXX	XXXXXXXX	XXXXXX	XXXXXXXX	XXXXXX	XXXXXXX XX	X	
XX	XXXXXXX X XXXXX XXXXXXX	XXXXXX X	XXXXX X	XXXXXX	XXXXXXX XX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXXX	X	

	X XXXXXXX XXXXXX XXXX XXXX											
XX	XXXXXXX X XXXXXXX X XXXXXXX XX XXXXX XXXXXXX X XXXX XXXX	XXXXX	XXXX X	XXXXXX	XXXXXXX	XXXXXXX	XXXXXX	XXXXXXX	XXXXXX	XXXXXXX	X	
XX	XXXXXX XXXX XXXX	XXXXX	XXXX X	XXXXXX	XXXXX	XXXXXX	XXXXXXX	XXXXXXX	XXXXXX	XXXXXXX	X	
XX	XXXXXXX XXXXX XXXXXXX XX XXXX XXXX	XXXXX	XXXX X	XXXXX	XXXXX	XXXXX	XXXXXXX	XXXXXX	XXXXXX	XXXXXXX	X	
XX	XXXXXXX X XXXXXXX X XXXX XXXX XXXX XXXX	XXXXX	XXXX X	XXXXX	XXXXX	XXXXX	XXXXXXX	XXXXXX	XXXXXX	XXXXXXX	X	
XX	XXXXXXX XXXXXXX XXXXXXX X XXXX XXXX	XXXXX	XXXX X	XXXXX	XXXXX	XXXXX	XXXXXXX	XXXXXX	XXXXXX	XXXXXXX	X	
XXXXXX		XXXXX XX	XXXX X	XXXXXXX XX	XXXXXXX XX	XXXXXXX XX	XXXXXXX XX	XXXXXXX XX	XXXXXXX XX	XXXXXXX XX	XX	
XXXXX		XXXXX XX	XXX XX	XXXXXXX XXX	XXXXXXX XXX	XXXXXXX XXXX	XXXXXXX XXXX	XXXXXXX XXXX	XXXXXXX XXX	XXXXXXX XXXX	XX X	



*Note:1. Since April 2020, China's export data are sourced from data of the customs of major destinations.  
2. All the volumes in the table are based on the actual volume, except where "100% AI" is indicated.  
Source:Tranalysis*

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Table 4.2.1-7 China's exports of atrazine by manufacturer in Jan.–Oct., 2023, tonne

N o.	Manufacturer	200 g/L SL	38% SC	380 g/L SC	50% FW	50% SC	50% WP	500 g/L SC	80% WP	90% WDG	95% Tech.	96% Tech.	97% Tech.	98% Tech.	XXXX X volume (converted to 100% AI)	Value (million USD)
X	XXXXXX XXXXXX XXXXXXXX XXXX XXXX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XXX	XXX XX	XXX XX	XXX XXX	XXX XX	XXX XXX XXX	XXX XXX	XXX XXX	XXX XX	XXXXX XXXX	XX
X	XXXXXXXX XXXXXXXX XXXXXXXX XXXXXXXX XXXXX XXXX XXXX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XXX X	XXX XX	XXX XXX X	XXX XXX X	XXX XXX X	XXX XXX X	XXX XX	XXX XXX X	XXX XX	XXXXX XXXX	XX
X	XXXXXXXX XXXXXX XXXXXXXX XXXXXXXX XXXX XXXX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XXX X	XXX XX	XXX XX	XXX XXX X	XXX XXX X	XXX XXX	XXX XX	XXX XXX	XXX XXX	XXXXX XXXX	X
X	XXXXXXX XXXXXXX XXXX XXXX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XXX	XXX XX	XXX XXX X	XXX XX	XXX XXX	XXX XX	XXXXX XX	X
X	XXXXXXXX XXXXX XXXXXXXX XXXX XXXX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XXX X	XXX XXX	XXX XX	XXX XX	XXX XXX X	XXX XXX	XXXXX XX	X
X	XXXXXX XXXXXXX XXXXXXXX XXXX XXXX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XXX X	XXX XX	XXX XXX X	XXX XX	XXX XX	XXX XX	XXXXX XX	X
X	XXXXXXXX XXXXXX XXXXXXXXXX XXXX XXXX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XXX	XXX XX	XXX XX	XXX XXX X	XXX XXX	XXX XX	XXX XX	XXX XXX	XXX XXX	XXXXX XX	X
X	XXXXXXXX XXXXX XXXXXX XXXX XXXX	XXX XX	XXX XXX	XXX XXX	XXX XX	XXX XXX	XXX XXX	XXX XX	XXX XXX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XX	XXXXX XX	X
X	XXXXX XXXXX XXXXXXXX XXXX XXXX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XXX	XXX XX	XXX XX	XXX XXX	XXX XX	XXX XX	XXX XX	XXX XXX	XXX XX	XXXXX X	X
X X	XXXXXXXX XXXXXXXX XXXXX XXXXXXXX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XX	XXX XXX	XXX XX	XXX XX	XXX XX	XXX XX	XXXXX X	X

XXXX XXXX																
XXXXXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX X	XXX XX	XXX XXX X	XXX XXX XXX	XXX XXX XXX	XXX XXX X	XXX XX	XXX XXX XXX	XXX XXX X	XXXXX XXXXX	XX	
XXXXXX	XXX XXX	XXX XXX	XXX XXX	XXX XXX XXX	XXX XXX	XXX XXX XXX	XXX XXX XXX	XXX XXX XXX	XXX XXX XXX	XXX XXX	XXX XXX XXX	XXX XXX X	XXXXX XXXXX X	XXX		

Note:1. Since April 2020, China's export data are sourced from data of the customs of major destinations; in 2023, only 22 destinations were concluded.

2. All the volumes in the table are based on the actual volume, except where "100% AI" is indicated.

Source:Tranalysis

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## 5 Consumption of atrazine in China, 2020–2023E

Atrazine is mainly applied to control annual weeds in corn and sugarcane fields, and it is also widely used in sorghum fields, grapery, tea gardens, etc.

Domestically, atrazine formulations, mainly including XX% SC, XX% SC, XX% WP and XX% WDG, are applied. Notably, atrazine XX% SC plays the dominant role in domestic consumption. In XXXX, the utilisation of XX% atrazine SC is expected to account for XX.XX% of the total consumption volume.

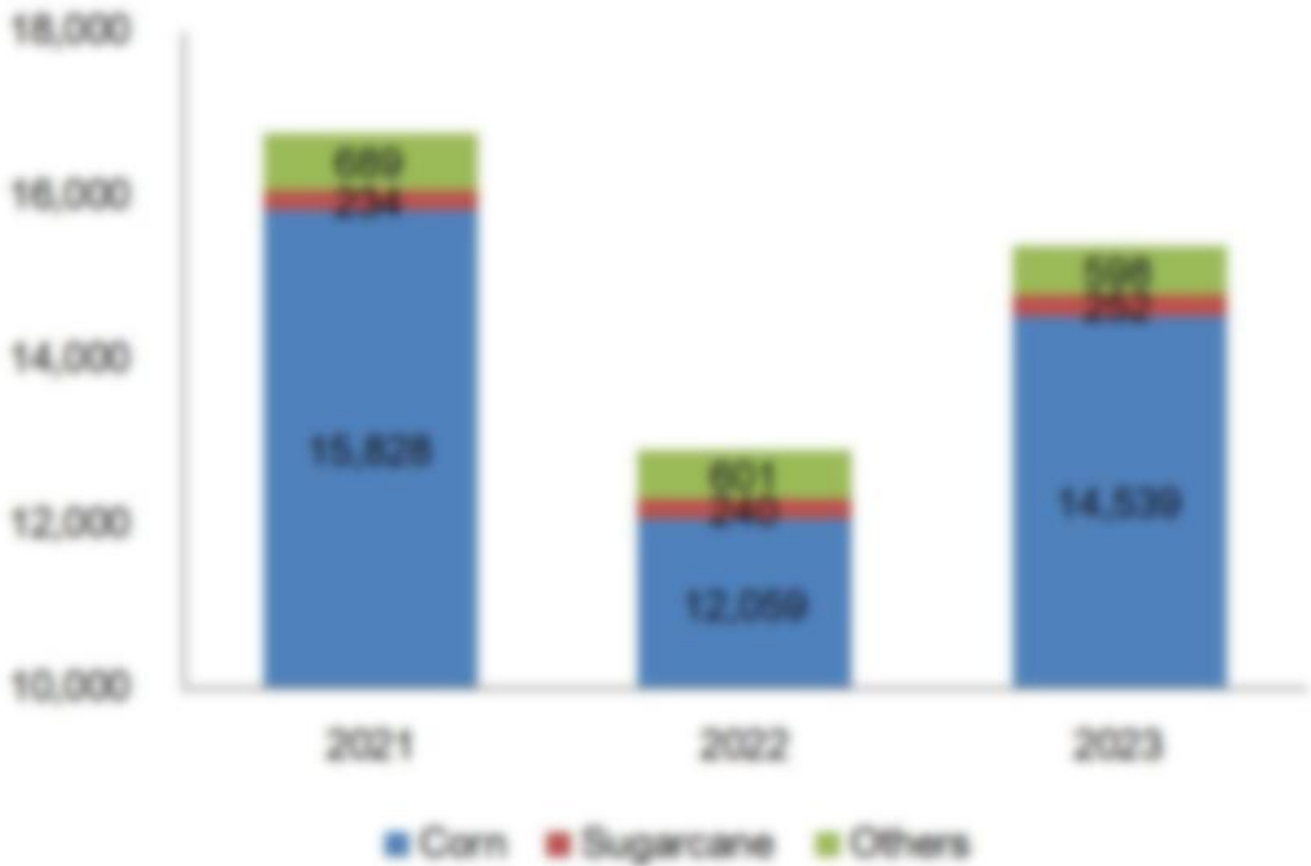
In XXXX, the actual domestic consumption volume of atrazine formulations is expected to stand at XX,XXX tonnes (converted to XXX% technical) and it saw a year-on-year increase of XX.XX%, due to the increasing corn-growing areas under food security policy in China. Moreover, favourable weather throughout the year in most producing regions across the country pushed corn acreage production and yield hit a new high; it might strengthen the domestic demand for atrazine in the coming future.

However, China officially issued the approved list of genetically modified (GM) corn and soybean varieties on X Dec., XXXX, composed of XX corn varieties and XX soybean varieties, which could negatively impact the demand for atrazine formulations in the long run. According to the *Requirements of Registration Materials for Target Herbicides for Genetically Modified Herbicide-tolerant Crops* issued by MARA on XX June, XXXX, only single formulations such as glyphosate and glufosinate are allowed to be used in herbicide trials recorded for GM herbicide-tolerant crops (mainly corn and soybeans) in China.

It should be noticed that the long residual effect of this product has been a concern for years. It is likely to be replaced by other herbicide products for safety and environmental reasons.

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Figure 5-1 Actual consumption structure of atrazine formulations (converted to 100% technical) by crop in China, 2021–2023E, tonne



Note: The actual consumption of atrazine formulations by crop in China in 2023 is estimated.  
Source: CCM

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