

# **Exports of Major Pesticide Products in China in H1 2021**

**The Second Edition  
October 2021**

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## **Executive summary**

Export value of pesticide technical and formulation rose, and so did the export volume of pesticide formulation in H1 2021. The export value of pesticide technical saw a significant yearly increase of 42.25%, while its export volume dropped by 26.41% year on year.

Major pesticide categories achieved different degrees of growth both in export volume and value in H1 2021. Export value and volume of key categories, i.e. herbicides, insecticides and fungicides, showed upward trend in H1 2021.

In 2020, the top 10 pesticides in export market in China were: glyphosate, fipronil, imidacloprid, atrazine, tebuconazole, paraquat, 2,4-D, acephate, azoxystrobin and abamectin. There was export data in H1 2021 of eleven selected pesticides, i.e. glyphosate, atrazine, dicamba, glufosinate-ammonium, 2,4-D, imidacloprid, chlorpyrifos, thiamethoxam, abamectin, mancozeb and prochloraz.

## **Methodology**

The report is drafted by diverse methods as follows:

### **- Desk research**

The 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 gone into the compilation and analysis of the obtained information. When necessary, checks have been made with Chinese agrochemical players.

### **- Internet**

CCM contacted with players in the domestic agrochemical industry through B2B websites and software as well as obtained registration information on the internet.

### **- Data processing and presentation**

The data collected and compiled are sourced from:

- ✓ China Crop Protection Industry Association
- ✓ CCM's database
- ✓ Published articles in periodicals, magazines, journals and third-party databases
- ✓ Statistics from governments and international institutes
- ✓ Telephone interviews with domestic producers, joint ventures, service suppliers and governments
- ✓ Third-party data providers
- ✓ Comments from industrial experts
- ✓ Professional databases from other sources
- ✓ Information from the internet

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

## 1 Overview of pesticide exports in China

It is witnessed that both of the value and the volume of China's pesticides export increased in H1 2021. The export volume increased slightly to 1,297,100 tonnes, while the export value great at double digits compared with H1 2020. By formulation, technical and formulation both experienced rises in export value, yet technical saw its export volume descended by large margin. By category, export value and volume of herbicides, insecticides and fungicides all increased. It should also be noticed that herbicide prices have shot up very fast since the beginning of this year.

### 1.1 Export volume and value of pesticides in H1 2021, by formulation

Pesticide formulation saw growths in export value & volume in H1 2021. Pesticide technical, achieved a significant yearly increase of 42.25% in export value, with 26.41% contraction in export volume. Pesticide export volume and value in Feb. witnessed triple-digit increases over Feb. 2020 when domestic COVID-19 situation was at the most crucial time. April witnessed the largest pesticide export volume, and the best performance of export value fell in May.

Total export value of pesticide increased by 49.64% year on year. The value from formulations grows quicker than that from technical export. The export volume in H1 2021 totaled 1,297,100 tonnes and the volume of pesticide formulation expanded significantly. Notably, the export volume of pesticide formulation contributes close to 70% of the total export volume, with a yearly increase of 33.50%.

Table 1.1-1 China's export value of pesticides, H1 2021

Formulation	Value, million USD	YoY change
Technical	6,366	42.25%
Formulations	3,370	65.94%
<b>Total</b>	<b>9,736</b>	<b>49.64%</b>

Source: ICAMA & CCM

Table 1.1-2 China's export volume of pesticides, H1 2021

Formulation	Volume, tonne	YoY change
Technical	447,900	-26.41%
Formulations	849,200	33.50%
<b>Total</b>	<b>1,297,100</b>	<b>4.21%</b>

Source: ICAMA & CCM

### 1.2 Export volume and value of pesticides in H1 2021, by category

Export value and volume of key categories, i.e. herbicides, insecticides and fungicides, showed upward trend in H1 2021 according to data from the Institute for the Control of Agrochemicals of the Ministry of Agriculture and Rural Affairs (ICAMA).

Thereinto, export volume of herbicides went up slightly over H1 2020, that of insecticides grew 9% year on year, but it was still overshadowed by more than 18% growth registered in the volume of fungicides. Export value of all these three categories enjoyed big jumps, by somewhere around 60% year on year each.

Table 1.2-1 China's export value of pesticide by category, H1 2021

Category	Value, million USD	YoY change
Herbicides	5,032	57.99%
Insecticides	3,114	58.49%
Fungicides	1,470	66.55%
Others	120	-16.01%
<b>Total</b>	<b>9,736</b>	<b>49.64%</b>

Source: ICAMA & CCM

Table 1.2-2 China's export volume of pesticide by category, H1 2021

Category	Volume, tonne	YoY change
Herbicides	896,800	1.63%
Insecticides	260,300	9.09%
Fungicides	119,700	18.30%
Others	20,300	-12.84%
<b>Total</b>	<b>1,297,100</b>	<b>4.21%</b>

Source: ICAMA & CCM

### 1.3 List of Top 10 pesticides' export value and volume in 2020

China's export market of pesticides hit a record high in 2020 and the pressure on export has not decreased this year. Before diving into the study of export of eleven selected pesticides in H1 2021, we should have a knowledge of the export status of ten highest-valued pesticides in China in 2020. Hereby, export value and volume of top 10 pesticides are listed.

Table 1.3-1 List of Top 10 pesticides' export value and volume, 2020

No.	Product	Value, USD	Volume, tonne
1	Glyphosate	1,325,314,462	341,058.036
2	Fipronil	325,079,673	504.999
3	Imidacloprid	306,517,246	8,941.193
4	Atrazine	213,700,003	22,165.235
5	Tebuconazole	211,484,461	3,394.907
6	Paraquat	207,223,509	43,970.689
7	2,4-D	177,339,420	30,604.337
8	Acephate	168,624,910	2,894.255
9	Azoxystrobin	153,531,115	1,684.911
10	Abamectin	145,890,566	122.933

Source: *Tranalysis*

Note: *The volume in this table is converted into 100% AI.*



## 2 Export analysis of main herbicide products in H1 2021

### 2.1 Glyphosate

In H1 2021, China's export volume of glyphosate (converted into 100% AI) was 160,652.770 tonnes, down by 29.26% year on year. Decline in export volume of glyphosate formulation was greater than that of glyphosate technical. The export volume of glyphosate witnessed significant growths in Feb. and May, but large decreases in other months.

Import volume of the top 10 export destinations accounted for 89.65% of the total. The US, Brazil and Argentina were the top three in H1 2021. Thereinto, the US imported 46,418.780 tonnes of glyphosate from China, 28.89% of the total; Brazil imported 31,137.370 tonnes, 19.38% of the total.

The top three exporters were Nantong Jiangshan Agrochemical & Chemicals Co., Ltd., Nufarm Chemical (Shanghai) Co., Ltd. and Hubei Trisun Chemicals Co., Ltd. The export volume of the top 10 exporters made up 40.17% of the total.

Table 2.1-1 China's export volume of glyphosate by month, H1 2021

Month	Formulation, tonne	YoY change	Technical, tonne	YoY change	Total, tonne	YoY change
January	5,175.870	-66.48%	13,679.480	-31.48%	18,855.350	-46.75%
February	9,373.200	94.28%	20,223.310	47.02%	29,596.510	59.29%
March	9,840.780	-62.39%	24,472.930	-20.73%	34,313.710	-39.84%
April	10,759.670	-70.24%	21,297.500	-27.94%	32,057.170	-51.22%
May	13,038.720	87.17%	22,189.580	25.75%	35,228.300	43.13%
June	3,600.850	-67.62%	7,000.880	-52.12%	10,601.730	-58.82%
<b>Total</b>	<b>51,789.090</b>	<b>-48.56%</b>	<b>108,863.680</b>	<b>-13.89%</b>	<b>160,652.770</b>	<b>-29.26%</b>

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 2.1-2 Top 10 export destinations of glyphosate from China, H1 2021

No.	Destination	Volume, tonne
1	The US	46,418.780
2	Brazil	31,137.370
3	Argentina	17,270.620
4	Indonesia	13,236.740
5	India	9,925.190
6	Russia	7,372.480
7	Ghana	6,225.990
8	Nigeria	5,716.050
9	Australia	3,503.680
10	Kazakhstan	3,211.800

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 2.1-3 Top 10 exporters of glyphosate from China, H1 2021

No.	Exporter	Volume, tonne
1	Nantong Jiangshan Agrochemical & Chemicals Co., Ltd.	9,665.760
2	Nufarm Chemical (Shanghai) Co., Ltd.	9,062.730
3	Hubei Trisun Chemicals Co., Ltd.	7,769.060
4	Zhejiang Wynca Chemical Industrial Group Co., Ltd.	6,537.130
5	Fuhua Tongda Agro-Chemical Technology Co., Ltd.	6,111.950
6	Shanghai Freeman Chemicals Co., Ltd.	6,031.980
7	Xingfa (Shanghai) International Trade Co., Ltd.	5,450.390
8	Shandong Weifang Rainbow Chemical Co., Ltd.	5,221.090
9	Hebei Bestar Commerce and Trade Co., Ltd.	4,364.300
10	Jiangsu Good Harvest-Weien Agrochemical Co., Ltd.	4,313.170

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

## 2.2 Atrazine

China exported 26,825.540 tonnes of atrazine (converted into 100% AI) in H1 2021, a yearly increase of 1.69%. Thereinto, the export volume of atrazine technical increased by 18.67% year on year, accounting for 74.31% of the total. Export of atrazine technical achieved the best performance in March, but that fell sharply in May and June.

In H1 2021, India imported 6,514.650 tonnes of atrazine from China, up by 202.17% year on year, ranking the first; Argentina came the second, with a yearly growth of 216.20%. However, Brazil, the No. 1 importer in H1 2020, dropped significantly by 57.03%; the US, the No. 2 in H1 2020, decreased by 56.39%. The combined volume to the top 10 export destinations accounted for 96.25% of the total.

The export volume of the top 10 exporters totalled 16,763.680 tonnes, 62.49% of the total. The three largest exporters are Shandong Dehao Chemical Co., Ltd., Zhejiang Zhongshan Chemical Industry Group Co., Ltd. and Shandong Weifang Rainbow Chemical Co., Ltd.

Table 2.2-1 China's export volume of atrazine by month, H1 2021

Month	Formulation, tonne	YoY change	Technical, tonne	YoY change	Total, tonne	YoY change
January	1,626.970	-45.38%	4,400.290	-1.71%	6,027.260	-19.16%
February	1,309.680	-6.22%	4,021.840	75.67%	5,331.510	44.64%
March	1,062.600	-66.52%	5,875.480	57.84%	6,938.080	0.60%
April	2,101.010	14.80%	2,678.100	14.12%	4,779.110	14.41%
May	517.830	493.34%	1,796.980	-15.13%	2,314.810	4.99%
June	273.900	136.03%	1,160.880	-37.05%	1,434.780	-26.80%
<b>Total</b>	<b>6,891.980</b>	<b>-28.08%</b>	<b>19,933.560</b>	<b>18.67%</b>	<b>26,825.540</b>	<b>1.69%</b>

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 2.2-2 Top 10 export destinations of atrazine from China, H1 2021

No.	Destination	Volume, tonne
1	India	6,514.650
2	Argentina	5,875.550
3	Brazil	2,596.760
4	Nigeria	2,096.360
5	Pakistan	1,917.970
6	Canada	1,864.790
7	Mexico	1,861.120
8	Chile	1,238.370
9	The US	993.360
10	Ghana	860.460

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 2.2-3 Top 10 exporters of atrazine from China, H1 2021

No.	Exporter	Volume, tonne
1	Shandong Dehao Chemical Co., Ltd.	4,510.500
2	Zhejiang Zhongshan Chemical Industry Group Co., Ltd.	3,909.680
3	Shandong Weifang Rainbow Chemical Co., Ltd.	2,003.960
4	Kingland Chemical Co., Ltd.	1,864.790
5	Hebei Lingang Chemical Co., Ltd.	1,669.390
6	Shandong Binnong Technology Co., Ltd.	944.680
7	Shandong Qiaochang Chemical Co., Ltd.	686.000
8	Afri Ventures FZE	431.880
9	Agrohao Co., Ltd.	410.300
10	Sinochem International Crop Care Co., Ltd.	332.500

Source: *Tranalysis*

Note: The volume in this table is converted into 100% AI.

## 2.3 Dicamba

Export volume of dicamba (converted into 100% AI) in China in H1 2021 increased significantly by 70.75% year on year. The export volume peaked at 1,451.190 tonnes in May, up by 705.66% year on year, though it also went through a big decline in April. The export of dicamba technical reached 5,321.800 tonnes, with a yearly increase of 77.59%.

Export destinations of dicamba are relatively concentrated. In H1 2021, the US was the largest export destination, importing 4,606.570 tonnes from China, the amount accounting for 86.35% of the total. Argentina came the second.

The top 3 dicamba exporters were Youjia Crop Protection Co., Ltd., Jiangsu Changqing Agrochemical Co., Ltd. and Sharda Cropchem Limited. Youjia Crop Protection Co., Ltd. is a subsidiary of Jiangsu Yangnong Chemical Co., Ltd., the biggest dicamba producer in China.

Table 2.3-1 China's export volume of dicamba by month, H1 2021

Month	Formulation, tonne	YoY change	Technical, tonne	YoY change	Total, tonne	YoY change
January	6.560	-86.68%	511.260	6.64%	517.820	-2.05%
February	4.290	/	911.010	70.63%	915.300	71.44%
March	2.330	-94.21%	964.240	63.93%	966.570	53.81%
April	0.000	/	504.100	-46.79%	504.100	-48.86%
May	0.000	/	1,451.190	705.66%	1,451.190	705.66%
June	0.000	/	980.000	266.27%	980.000	266.27%
<b>Total</b>	<b>13.180</b>	<b>-89.69%</b>	<b>5,321.800</b>	<b>77.59%</b>	<b>5,334.980</b>	<b>70.75%</b>

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 2.3-2 Export destinations of dicamba from China, H1 2021

No.	Destination	Volume, tonne
1	The US	4,606.570
2	Argentina	682.860
3	Mexico	28.220
4	Paraguay	9.780
5	Vietnam	6.560
6	Ukraine	0.980

Source: Tranalysis

Note: 1. The volume in this table is converted into 100% AI.

2. There were only six export destinations of dicamba in H1 2021.

Table 2.3-3 Top 10 exporters of dicamba from China, H1 2021

No.	Exporter	Volume, tonne
1	Youjia Crop Protection Co., Ltd.	2,794.070
2	Jiangsu Changqing Agrochemical Co., Ltd.	1,451.370
3	Sharda Cropchem Limited	487.550
4	Red Surcos Trade (Shanghai) Co., Ltd.	133.280
5	Nanjing Bioagriland Crop Care Co., Ltd.	89.380
6	Jiangsu Oubei Technology Co., Ltd.	78.400
7	Shandong Weifang Rainbow Chemical Co., Ltd.	68.050
8	Nanjing Red Sun Co., Ltd.	23.520
9	Nufarm Services (Singapore) Pte Ltd.	15.680
10	Ningbo Agroskyrun Trading Co., Ltd.	7.880

Source: *Tranalysis*

Note: The volume in this table is converted into 100% AI.

## 2.4 Glufosinate-ammonium

In H1 2021, China's export volume of glufosinate-ammonium (converted into 100% AI) witnessed a significant yearly growth of 33.93%. Except for March, H1 saw large year-on-year increases in export volume. It is worth noting that such increases are mainly brought by triple-digit surges (except of March) of glufosinate-ammonium technical export; formulations encountered big drops from Jan. to April.

The Top 3 export destinations of China's glufosinate-ammonium were the US, Vietnam and Brazil. Thereinto, the US imported 2,466.850 tonnes of glufosinate-ammonium from China, taking up the lion's share. The export volume to the second and the third largest destinations was 296.870 tonnes and 108.57 tonnes respectively.

In H1 2021, the top 10 exporters exported 1,688.060 tonnes of glufosinate-ammonium, accounting for 55.94% of the total. Thereinto, the export volume of Lier Chemical Co., Ltd. accounted for 45.07% of the total, ranking the first.

Table 2.4-1 China's export volume of glufosinate-ammonium by month, H1 2021

Month	Formulation, tonne	YoY change	Technical, tonne	YoY change	Total, tonne	YoY change
January	29.269	-80.78%	599.932	211.12%	629.201	82.31%
February	39.143	-38.24%	384.264	128.52%	423.407	82.88%
March	71.425	-85.41%	348.266	-23.11%	419.691	-55.47%
April	44.730	-84.53%	544.531	205.99%	589.261	26.14%
May	114.708	180.69%	395.556	143.34%	510.264	150.84%
June	9.527	32.31%	436.005	677.88%	445.531	604.40%
<b>Total</b>	<b>308.801</b>	<b>-70.38%</b>	<b>2,708.554</b>	<b>123.75%</b>	<b>3,017.355</b>	<b>33.93%</b>

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 2.4-2 Top 10 export destinations of glufosinate-ammonium from China, H1 2021

No.	Destination	Volume, tonne
1	The US	2,466.850
2	Vietnam	296.870
3	Brazil	108.570
4	Indonesia	36.990
5	The Philippines	34.200
6	Paraguay	27.100
7	Mexico	24.750
8	Peru	9.950
9	Ecuador	5.900
10	Malaysia	4.180

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 2.4-3 Top 10 exporters of glufosinate-ammonium from China, H1 2021

No.	Exporter	Volume, tonne
1	Lier Chemical Co., Ltd.	1,360.040
2	Jiangsu Sevencontinent Green Chemical Co., Ltd.	66.500
3	Sino-Agri Red Sun Bio-Technology Co., Ltd.	52.990
4	Shandong Weifang Rainbow Chemical Co., Ltd.	41.610
5	Hisigma Chemicals Co., Ltd.	37.050
6	Xuzhou Jinhe Chemicals Co., Ltd.	34.560
7	Hebei Veyong Bio-chemical Co., Ltd.	26.210
8	Ningbo Agroskyrun Trading Co., Ltd.	26.150
9	China Jiangsu International Economic and Technical Cooperation Group, Ltd.	25.670
10	Hebei Huyang Import and Export Co., Ltd.	17.280

Source: *Tranalysis*

Note: The volume in this table is converted into 100% AI.

## 2.5 2,4-D

In H1 2021, the total export volume of 2,4-D (converted into 100% AI) was 15,361.328 tonnes, down by 53.68%. In March, the export volume of 2,4-D technical peaked at 4,220.010 tonnes, 27.47% of the total, followed by May and Jan.

In this period, Brazil was the largest export destination of 2,4-D, with import volume reaching 6,350.084 tonnes, accounting for 41.34% of the total. The top 10 destinations altogether imported 14,585.911 tonnes of 2,4-D, 94.95% of the total.

Top 3 exporters of China's 2,4-D were Jiangxi Tianyu Chemical Co., Ltd., Ningxia Gerui Fine Chemical Co., Ltd. and CAC Shanghai International Trade Co., Ltd., exporting nearly 10,000 tonnes, two thirds of the total. The top 10 exporters exported 12,837.194 tonnes, accounting for 83.57% of the total.



Table 2.5-1 China's export volume of 2,4-D by month, H1 2021

Month	Formulation, tonne	YoY change	Technical, tonne	YoY change	Total, tonne	YoY change
January	640.627	-75.66%	2,202.071	-41.93%	2,842.698	-55.75%
February	362.604	-50.17%	948.541	-10.96%	1,311.145	-26.87%
March	307.943	-89.99%	4,220.010	-16.81%	4,527.953	-44.44%
April	363.878	-88.37%	2,164.318	-53.74%	2,528.196	-67.62%
May	295.629	-57.29%	3,645.601	-22.08%	3,941.230	-26.62%
June	85.451	-95.41%	124.656	-92.88%	210.107	-94.19%
<b>Total</b>	<b>2,056.131</b>	<b>-83.04%</b>	<b>13,305.197</b>	<b>-36.76%</b>	<b>15,361.328</b>	<b>-53.68%</b>

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 2.5-2 Top 10 export destinations of 2,4-D from China, H1 2021

No.	Destination	Volume, tonne
1	Brazil	6,350.084
2	The US	3,800.499
3	Argentina	1,262.437
4	Indonesia	1,243.940
5	Ecuador	453.314
6	Paraguay	347.680
7	India	317.526
8	Peru	287.873
9	The Philippines	284.598
10	Uganda	237.959

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 2.5-3 Top 10 exporters of 2,4-D from China, H1 2021

No.	Exporter	Volume, tonne
1	Jiangxi Tianyu Chemical Co., Ltd.	6,652.975
2	Ningxia Gerui Fine Chemical Co., Ltd.	1,835.737
3	CAC Shanghai International Trade Co., Ltd.	1,510.427
4	Shandong Weifang Rainbow Chemical Co., Ltd.	1,077.912
5	Red Surcos Trade (Shanghai) Co., Ltd.	479.220
6	Qingdao Greenfield Imp & Exp Co., Ltd.	366.713
7	Weihai Hanfu Biochemical Medicine Co., Ltd.	333.592
8	CAC Nantong Chemical Co., Ltd.	229.316
9	Shanghai Safechem International Trade Co., Ltd.	199.920
10	Ningbo Generic Chemical Co., Ltd.	151.381

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

### 3 Export analysis of main insecticide products in H1 2021

#### 3.1 Imidacloprid

In H1 2021, China's export volume of imidacloprid dropped by 59.18% year on year to 2,608.780 tonnes (converted into 100% AI). As for the export of imidacloprid formulation, only Feb. enjoyed a triple-digit year-on-year growth, while the other months experienced significant declines. The export volume of imidacloprid technical, accounting for 86.63% of the total, saw a yearly decrease of 52.85%.

Some 94.45% of total imidacloprid export headed to the top ten export destinations in H1 2021. India ranked the first with 1,388.280 tonnes, 53.22% of the total, followed by the US and Argentina.

Top 10 companies exported 1,762.892 tonnes of imidacloprid, 67.58% of the total. Thereinto, Hebei Bestar Commerce and Trade Co., Ltd. exported 604.160 tonnes, accounting for 23.16% of the total, followed by Suzhou Bianjing Agro-Biochemical Co., Ltd. and Hailir Pesticides and Chemicals Group Co., Ltd.

Table 3.1-1 China's export volume of imidacloprid by month, H1 2021

Month	Formulation, tonne	YoY change	Technical, tonne	YoY change	Total, tonne	YoY change
January	88.030	-75.69%	384.510	-47.52%	472.530	-56.84%
February	73.890	124.97%	238.330	-33.31%	312.220	-19.99%
March	54.110	-88.85%	507.480	-67.31%	561.590	-72.45%
April	84.280	-84.95%	619.940	-41.40%	704.210	-56.48%
May	41.140	-66.02%	444.010	-49.56%	485.140	-51.55%
June	7.470	-79.18%	65.620	-69.06%	73.090	-70.53%
<b>Total</b>	<b>348.910</b>	<b>-78.16%</b>	<b>2,259.880</b>	<b>-52.85%</b>	<b>2,608.780</b>	<b>-59.18%</b>

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 3.1-2 Top 10 export destinations of imidacloprid from China, H1 2021

No.	Destination	Volume, tonne
1	India	1,388.280
2	The US	395.610
3	Argentina	142.340
4	Vietnam	116.620
5	Ukraine	82.570
6	Indonesia	80.550
7	Bangladesh	76.440
8	Mexico	64.620
9	Peru	64.590
10	Russia	52.380

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 3.1-3 Top 10 exporters of imidacloprid from China, H1 2021

No.	Exporter	Volume, tonne
1	Hebei Bestar Commerce and Trade Co., Ltd.	604.160
2	Suzhou Bianjing Agro-Biochemical Co., Ltd.	486.940
3	Hailir Pesticides and Chemicals Group Co., Ltd.	130.687
4	Willowood (Hangzhou) Co., Ltd.	104.760
5	Shandong Sino-Agri United Biotechnology Co., Ltd.	102.747
6	Purpana (Beijing) Technology Co., Ltd.	99.286
7	Jiangsu Changqing Agrochemical Co., Ltd.	78.267
8	Nanjing Bioagriland Crop Care Co., Ltd.	56.625
9	Shandong Hailir Chemicals Co., Ltd.	52.380
10	Trans Wagon International Co., Ltd.	47.040

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

### 3.2 Chlorpyrifos

In H1 2021, China exported 7,183.931 tonnes of chlorpyrifos (converted into 100% AI), down by 6.79% year on year. More than 85% of the chlorpyrifos exported is technical products. Export volume of chlorpyrifos technical decreased 3.02% year on year while that of chlorpyrifos formulation dropped by 25.39% year on year.

In H1 2021, the top 10 export destinations imported 6,283.983 tonnes of chlorpyrifos from China, 87.47% of the total. Thereinto, Brazil and Pakistan ranked the first and the second, their combined volume making up 41.39% of the total.

The top 10 exporters exported 3,038.639 tonnes of chlorpyrifos, 42.30% of the total. The top three exporters were Shandong Weifang Rainbow Chemical Co., Ltd., Nanjing Bodao Logistics Co., Ltd. and Sino-Agri Red Sun Bio-Technology Co., Ltd., export volume of which reached 1,697.835 tonnes, 23.63% of the total.

Table 3.2-1 China's export volume of chlorpyrifos by month, H1 2021

Month	Formulation, tonne	YoY change	Technical, tonne	YoY change	Total, tonne	YoY change
January	131.101	-69.02%	1,594.497	-31.49%	1,725.599	-37.26%
February	102.964	40.80%	1,080.522	490.13%	1,183.486	361.89%
March	168.840	-38.50%	747.798	-65.13%	916.637	-62.11%
April	191.154	-49.37%	1,256.275	3.63%	1,447.429	-8.95%
May	319.628	358.16%	808.298	159.42%	1,127.926	195.78%
June	54.184	-31.51%	728.670	215.45%	782.854	152.44%
<b>Total</b>	<b>967.871</b>	<b>-25.39%</b>	<b>6,216.060</b>	<b>-3.02%</b>	<b>7,183.931</b>	<b>-6.79%</b>

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 3.2-2 Top 10 export destinations of chlorpyrifos from China, H1 2021

No.	Destination	Volume, tonne
1	Brazil	1,819.508
2	Pakistan	1,153.578
3	Indonesia	681.198
4	Mexico	641.755
5	Peru	596.436
6	The US	422.255
7	Nigeria	295.602
8	Vietnam	262.760
9	Russia	213.981
10	Argentina	196.910

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 3.2-3 Top 10 exporters of chlorpyrifos from China, H1 2021

No.	Exporter	Volume, tonne
1	Shandong Weifang Rainbow Chemical Co., Ltd.	696.849
2	Nanjing Bodao Logistics Co., Ltd.	594.323
3	Sino-Agri Red Sun Bio-Technology Co., Ltd.	406.663
4	China Jiangsu International Economic and Technical Cooperation Group, Ltd.	279.022
5	Zhejiang Xinnong Chemical Co., Ltd.	214.097
6	JAT (Offshore) S.A.L.	204.794
7	Qingdao Rainbow Chemical Co., Ltd.	184.300
8	Zhuochen Industries (Shanghai) Co., Ltd.	154.770
9	Nanjing Rising Chemical Co., Ltd.	152.400
10	Nanjing Red Sun Co., Ltd.	151.421

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

### 3.3 Thiamethoxam

In H1 2021, the export volume of thiamethoxam (converted into 100% AI) in China reached 988.270 tonnes, up by 17.66% year on year. Feb., May and June witnessed significant year-on-year growths in thiamethoxam export, while the other months experienced drops. The export volume of thiamethoxam technical rose by 31.55% as compared to a year ago, while that of thiamethoxam formulation saw a single-digit increase.

The top 10 export destinations imported a total of 912.760 tonnes of thiamethoxan, 92.36% of the total. Thereinto, Paraguay and Russia were the main destinations, importing 315.860 tonnes of thiamethoxam, almost one third of the total.

Total export volume of the top 10 exporters was 455.630 tonnes, 46.10% of the total. Thereinto, the top 3 largest exporters were Jiangsu Luye Agrochemicals Co., Ltd., Shanghai E-tong Chemical Co., Ltd. and Jiangsu Trustchem Co., Ltd.

Table 3.3-1 China's export volume of thiamethoxam by month, H1 2021

Month	Formulation, tonne	YoY change	Technical, tonne	YoY change	Total, tonne	YoY change
January	88.820	-45.19%	52.450	-45.11%	141.270	-45.16%
February	121.600	788.91%	27.510	2679.04%	149.110	916.46%
March	54.730	-17.47%	103.260	-0.44%	158.000	-7.08%
April	16.010	-88.62%	105.960	-34.22%	121.980	-59.58%
May	102.780	290.78%	150.410	490.30%	253.180	388.96%
June	78.670	150.99%	86.050	575.46%	164.720	273.66%
<b>Total</b>	<b>462.610</b>	<b>5.06%</b>	<b>525.660</b>	<b>31.55%</b>	<b>988.270</b>	<b>17.66%</b>

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 3.3-2 Top 10 export destinations of thiamethoxam from China, H1 2021

No.	Destination	Volume, tonne
1	Paraguay	159.110
2	Russia	156.750
3	Vietnam	112.540
4	Ukraine	108.050
5	India	105.840
6	The US	92.530
7	Panama	61.560
8	Turkey	55.430
9	Bolivia	40.850
10	Chile	20.100

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 3.3-3 Top 10 exporters of thiamethoxam from China, H1 2021

No.	Exporter	Volume, tonne
1	Jiangsu Luye Agrochemicals Co., Ltd.	105.840
2	Shanghai E-tong Chemical Co., Ltd.	85.770
3	Jiangsu Trustchem Co., Ltd.	59.780
4	Ningbo Sunjoy Bioscience Co., Ltd.	42.500
5	Hisigma Chemicals Co., Ltd.	32.340
6	Ningbo Sunjoy Agroscience Co., Ltd.	29.620
7	Shandong Sino-Agri United Biotechnology Co., Ltd.	27.370
8	Hebei Bestar Commerce and Trade Co., Ltd.	25.090
9	Anhui Ruifeng Agrochemical Co., Ltd.	23.800
10	At Agro Company Limited	23.520

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

### 3.4 Abamectin

In H1 2021, China's export volume of abamectin was 509.091 tonnes (converted into 100% AI), with a yearly increase of 40.76%. In general, the export volume of abamectin technical increased by 173.64% year on year, while that of abamectin formulation dropped by 50.14%. In May, the export volume of abamectin technical peaked at 137.656 tonnes, yet the formulation export volume hit the lowest at 11.128 tonnes.

Top 10 export destinations of abamectin imported 97.30% of abamectin from China. The US imported 328.044 tonnes, accounting for 64.44% of the total. Vietnam and Brazil came the second and the third with 69.106 tonnes and 33.188 tonnes respectively.

Top 10 exporters exported a total of 307.726 tonnes of abamectin, 60.45% of the total. Thereinto, SANONE Co., Ltd. was the largest exporter with 92.955 tonnes, 18.26% of the total, followed by Qilu Pharmaceutical (Inner Mongolia) Co., Ltd. and Hebei Veyong Bio-chemical Co., Ltd., 10.69% and 9.35% of the total respectively.



Table 3.4-1 China's export volume of abamectin by month, H1 2021

Month	Formulation, tonne	YoY change	Technical, tonne	YoY change	Total, tonne	YoY change
January	24.331	-43.98%	33.448	287.15%	57.779	10.96%
February	14.967	134.01%	46.349	2293.21%	61.316	635.85%
March	14.661	-70.76%	32.660	164.21%	47.320	-24.28%
April	11.851	-80.88%	98.042	970.95%	109.894	54.51%
May	11.128	-49.63%	137.656	181.51%	148.784	109.58%
June	30.128	-1.96%	53.870	-18.29%	83.998	-13.10%
<b>Total</b>	<b>107.067</b>	<b>-50.14%</b>	<b>402.024</b>	<b>173.64%</b>	<b>509.091</b>	<b>40.76%</b>

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 3.4-2 Top 10 export destinations of abamectin from China, H1 2021

No.	Destination	Volume, tonne
1	The US	328.044
2	Vietnam	69.106
3	Brazil	33.188
4	Indonesia	19.850
5	Argentina	14.443
6	Mexico	6.780
7	Peru	6.740
8	Pakistan	6.057
9	Bangladesh	5.919
10	Uganda	5.198

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 3.4-3 Top 10 exporters of abamectin from China, H1 2021

No.	Exporter	Volume, tonne
1	SANONE Co., Ltd.	92.955
2	Qilu Pharmaceutical (Inner Mongolia) Co., Ltd.	54.431
3	Hebei Veyong Bio-chemical Co., Ltd.	47.615
4	Shandong Qilu King-phar Pharmaceutical Co., Ltd.	38.487
5	Shanghai Topchems Industry Co., Ltd.	18.419
6	Hisigma Chemicals Co., Ltd.	17.955
7	Hebei Xingbai Agricultural Technology Co., Ltd.	14.731
8	Ningbo Tide Import and Export Co., Ltd.	12.084
9	Suzhou ACE Chemical Technology Co., Ltd.	5.628
10	Eastchem Co., Ltd.	5.421

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

## 4 Export analysis of main fungicide products in H1 2021

### 4.1 Mancozeb

In H1 2021, China's export volume of mancozeb (converted into 100% AI) witnessed a yearly decline of 61.68%. The export volume of mancozeb technical dropped significantly by 81.64%. Mancozeb technical only had a year-on-year increase in Jan. and the volume made up 41% of the total technical exported in H1.

China's mancozeb was exported to about 80 countries and regions in H1 2021. The top 10 export destinations imported 2,180.740 tonnes of mancozeb from China, 96.55% of the total. Thereinto, the top three destinations were Indonesia, Vietnam and Peru, totalling 1,425.780 tonnes, 63.12% of the total export volume.

In H1 2021, the top ten exporters exported a total of 1,362.562 tonnes in H1 2021, 60.33% of the total. The three largest exporters were Hebei Shuangji Chemicals Co., Ltd., Limin Group Co., Ltd. and Jiangsu New Energy Crop Protection Co., Ltd.

Table 4.1-1 China's export volume of mancozeb by month, H1 2021

Month	Formulation, tonne	YoY change	Technical, tonne	YoY change	Total, tonne	YoY change
January	536.490	-56.47%	32.660	156.86%	569.150	-54.29%
February	184.920	-51.66%	0.000	/	184.920	-55.73%
March	351.070	-76.64%	23.800	-13.41%	374.870	-75.51%
April	654.670	-50.17%	1.700	-85.24%	656.370	-50.47%
May	388.190	-21.00%	15.300	-91.24%	403.490	-39.42%
June	63.060	-88.17%	6.800	-96.13%	69.860	-90.14%
<b>Total</b>	<b>2,178.410</b>	<b>-60.08%</b>	<b>80.260</b>	<b>-81.64%</b>	<b>2,258.670</b>	<b>-61.68%</b>

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 4.1-2 Top 10 export destinations of mancozeb from China, H1 2021

No.	Destination	Volume, tonne
1	Indonesia	675.320
2	Vietnam	409.600
3	Peru	340.860
4	The Philippines	232.720
5	Bangladesh	226.280
6	Uganda	103.810
7	Pakistan	77.600
8	Nigeria	42.940
9	Ecuador	36.410
10	Bolivia	35.200

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 4.1-3 Top 10 exporters of mancozeb from China, H1 2021

No.	Exporter	Volume, tonne
1	Hebei Shuangji Chemicals Co., Ltd.	302.720
2	Limin Group Co., Ltd.	228.000
3	Jiangsu New Energy Crop Protection Co., Ltd.	217.770
4	Nanjing Essence Fine Chemical Co., Ltd.	166.904
5	Limin Chemical Co., Ltd.	140.928
6	Fortune Ag. Co., Ltd.	85.120
7	JOC Uniwell Industrial Co., Ltd.	71.600
8	Zhejiang Chemicals Import & Export Corporation	56.000
9	Agro Advanced International Ltd.	51.280
10	Wuxi Fistar Trading Corp.	42.240

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

## 4.2 Prochloraz

In H1 2021, the export volume of prochloraz in China (converted into 100% AI) decreased by 66.56% year on year, reaching 328.060 tonnes. Export volume of prochloraz technical accounted for 86.11% of the total, yet compared with H1 2020, the volume went down by 68.90%. Feb., May and June witnessed yearly growths in prochloraz export, but the rest experienced double-digit declines.

In H1 2021, Indonesia ranked the first among the export destinations of prochloraz from China, with a volume reaching 123.670 tonnes, 37.70% of the total. The top 3 export destinations imported 220.150 tonnes, accounting for more than two thirds of the total.

In H1 2021, Jiangsu Huifeng Bio Agriculture Co., Ltd. exported 109.000 tonnes of prochloraz, 33.23% of the total, followed by FMC Agricultural Products International and Sino-Agri Red Sun Bio-Technology Co., Ltd.

Table 4.2-1 China's export volume of prochloraz by month, H1 2021

Month	Formulation, tonne	YoY change	Technical, tonne	YoY change	Total, tonne	YoY change
January	14.700	13.28%	59.720	-87.25%	74.420	-84.54%
February	4.030	-67.90%	74.190	27.16%	78.220	10.32%
March	7.960	-68.43%	60.170	-72.15%	68.130	-71.76%
April	12.830	15.60%	35.410	-76.66%	48.230	-70.38%
May	2.470	-75.54%	20.750	432.17%	23.220	65.93%
June	3.590	401.22%	32.250	219.93%	35.830	231.95%
<b>Total</b>	<b>45.580</b>	<b>-37.26%</b>	<b>282.480</b>	<b>-68.90%</b>	<b>328.060</b>	<b>-66.56%</b>

Source: *Tranalysis*

Note: *The volume in this table is converted into 100% AI.*

Table 4.2-2 Top 10 export destinations of prochloraz from China, H1 2021

No.	Destination	Volume, tonne
1	Indonesia	123.670
2	Mexico	55.290
3	Ukraine	41.190
4	Russia	39.130
5	Peru	30.510
6	Vietnam	18.080
7	Uzbekistan	9.600
8	Ecuador	5.810
9	Colombia	3.880
10	Ghana	0.900

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

Table 4.2-3 Top 10 exporters of prochloraz from China, H1 2021

No.	Exporter	Volume, tonne
1	Jiangsu Huifeng Bio Agriculture Co., Ltd.	109.000
2	FMC Agricultural Products International	78.570
3	Sino-Agri Red Sun Bio-Technology Co., Ltd.	28.500
4	Sinochem Agro Co., Ltd.	21.330
5	Hangzhou Ruijiang Crop Science Co., Ltd.	12.590
6	Jiangxi Huihe Chemical Co.,Ltd.	10.720
7	Shanghai Fanta-Lake Industrial Co., Ltd.	9.600
8	Shenzhen Iprochem Co., Ltd.	7.100
9	Nanjing Essence Fine Chemical Co., Ltd.	6.860
10	Zhejiang Chemicals Import & Export Corporation	5.250

Source: Tranalysis

Note: The volume in this table is converted into 100% AI.

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