

Top 100 Pesticide Enterprises in China

**The Eighth Edition
September 2022**

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Executive summary

On 17 July, China disclosed the 2022 top 100 enterprise lists based on the overall sales performance of pesticide enterprises in 2021. In general, both total revenue and the entry threshold of top 100 pesticide and formulation producers have increased from last year's records. Moreover, the lists indicate increased industry concentration as the sales of the top 10 accounted for about 40% of the total.

Regarding the geographical distribution of the 2022 China top 100 pesticide enterprises, the top three provinces Jiangsu, Hubei and Shandong account for 56.22% of the total pesticide revenue in 2021. Of pesticide formulations, sales in the top 100 rise 17.31% year on year in 2021, with Shenzhen Noposion Agrochemicals Co., Ltd., Jiangxi Zhengbang Crop Protection Co., Ltd., Guangxi Tianyuan Biochemistry Co., Ltd. and Jiangsu Rotam Chemistry Co., Ltd., being the top 5.

China's pesticide industry has resumed stable production of pesticide technical gradually over the past two years, and the output of chemical pesticide technical in 2021 showed a year-on-year increase of 16.29%, out of the COVID-19 outbreak concerns to some extent. In 2021, as the global epidemic situation elevated, China's control on waves of infections was a success in general which helped grow the country's imports and exports of pesticides, herbicides particularly.

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.

Table 0-1 USD/CNY exchange rate, Jan. 2016–Dec. 2021

Year	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Average
2016	6.5527	6.5311	6.5064	6.4762	6.5315	6.5874	6.6774	6.6474	6.6715	6.7442	6.8375	6.9182	6.6425
2017	6.8918	6.8713	6.8932	6.8845	6.8827	6.8019	6.7772	6.7148	6.5909	6.6493	6.6300	6.6067	6.7662
2018	6.5079	6.3045	6.3352	6.2764	6.3670	6.4078	6.6157	6.8293	6.8347	6.8957	6.9670	6.9431	6.6070
2019	6.8482	6.7081	6.6957	6.7193	6.7344	6.8896	6.8716	6.8938	7.0883	7.0726	7.0437	7.0262	6.8826
2020	6.9614	6.9249	6.9811	7.0771	7.0690	7.1315	7.0710	6.9980	6.8498	6.7796	6.7050	6.5921	6.9284
2021	6.5408	6.4623	6.4754	6.5584	6.4895	6.3572	6.4709	6.4660	6.4680	6.4604	6.4192	6.3693	6.4615

Source: The People's Bank of China

- 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

Table Abbreviations and full names

Abbreviation	Full Name
CCPIA	China Crop Protection Industry Association
AS	Aqueous solution
DC	Dispersible concentrate
EC	Emulsifiable concentrate
EW	Emulsion, oil in water
FS	Flowable concentrate for seed treatment
FSC	Flowable concentrate for seed coating
ME	Micro-emulsion
OD	Oil dispersion
SC	Suspension concentrate
SE	Suspoemulsion
SG	Water soluble granule
SL	Soluble concentrate
SP	Water soluble powder
TK	Technical concentrate
WG	Water dispersible granule
WP	Wettable powder
ZC	Mixed formulations of CS and SC

1 Review of China's pesticide industry in 2021

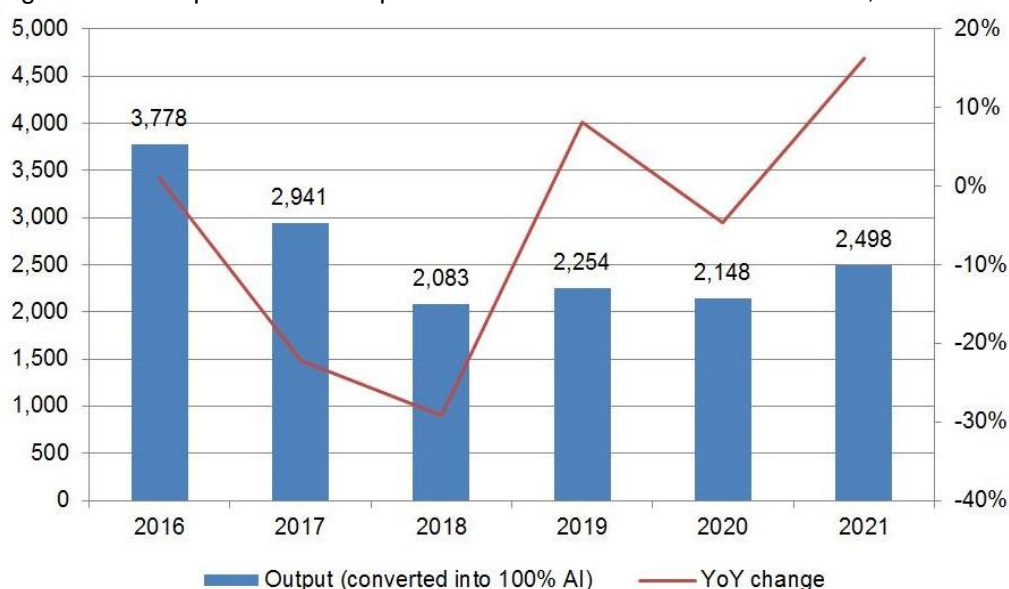
1.1 General situation of China's pesticide industry in 2021

Since 2015, with China governments' implementation of the action plan for achieving zero growth in the use of chemical fertilizers and pesticides by 2020, as well as for phasing out of highly toxic organophosphorus pesticides (insecticides in majority), the total output of domestic pesticides had decreased steadily from the 2016 peak before the rebound in 2019.

In Feb. 2020, extensive COVID-19 outbreaks posted different levels of threats onto the logistics and production of Chinese pesticide producers. For the rest of 2020 and whole 2021, the domestic producers released increased production capacity, with new production units built and benefited from the effective epidemic prevention and control.

Data from the National Bureau of Statistics show that, in 2020, most chemical pesticide technical producers above designated size (of total revenue above RMB20 million) had resumed production smoothly to the pre-pandemic level; in 2021, the total output of chemical pesticide technical (converted into 100% AI, hereinafter) reached around 2.50 million tonnes, with a year-on-year increase of 16.29%.

Figure 1.1-1 Output of chemical pesticide technical in China in 2016-2021, '000 tonnes

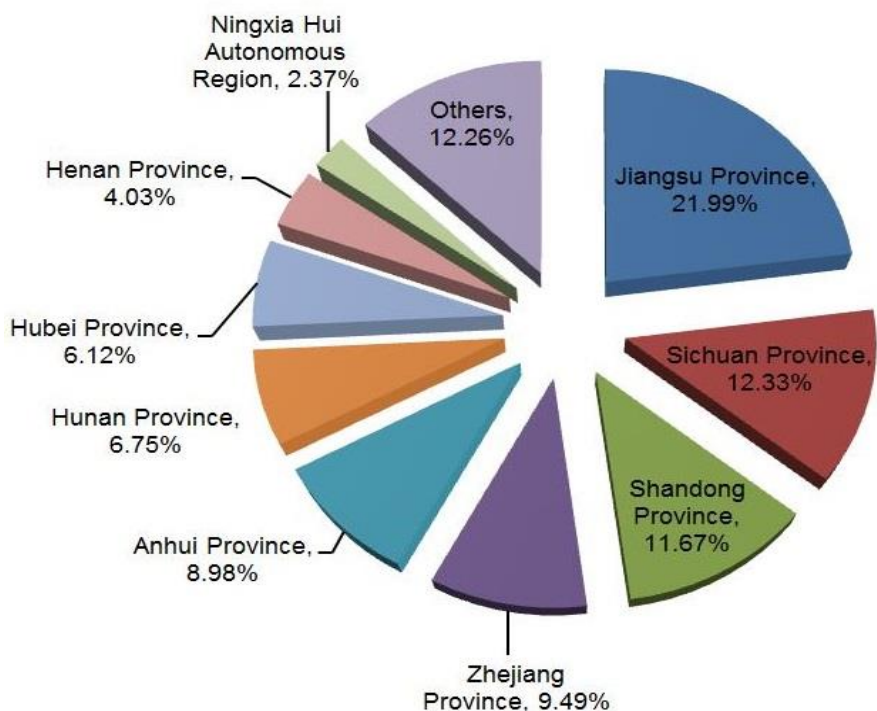


Source: National Bureau of Statistics (NBS) and CCM

As to the geographical output of chemical pesticide technical across China, the top 3 producing provinces (by volume) in 2021 were Jiangsu, Sichuan and Shandong provinces, accounting for 45.99% of the domestic total.

Gansu Province, Hunan Province and Ningxia Hui Autonomous Region saw growth in pesticide yield of 28.7%, 29.6% and 64.7% YoY respectively, which were the substantial results of the increased production capacity transferred from east to west in line with the environmental policies. In contrast, with the abrupt beats of Delta variant in Q3 2021 on the provinces/regions in North China, the overall output of Inner Mongolia Autonomous Region slumped in 2021, down by 18.4% YoY to 35,100 tonnes, pulling Inner Mongolia down from the 9th place in 2020 to the 12th place in 2021 among others across the country.

Figure 1.1-2 Geographical distribution of output of chemical pesticide technical (converted into 100% AI) in China, 2021



Source: NBS and CCM

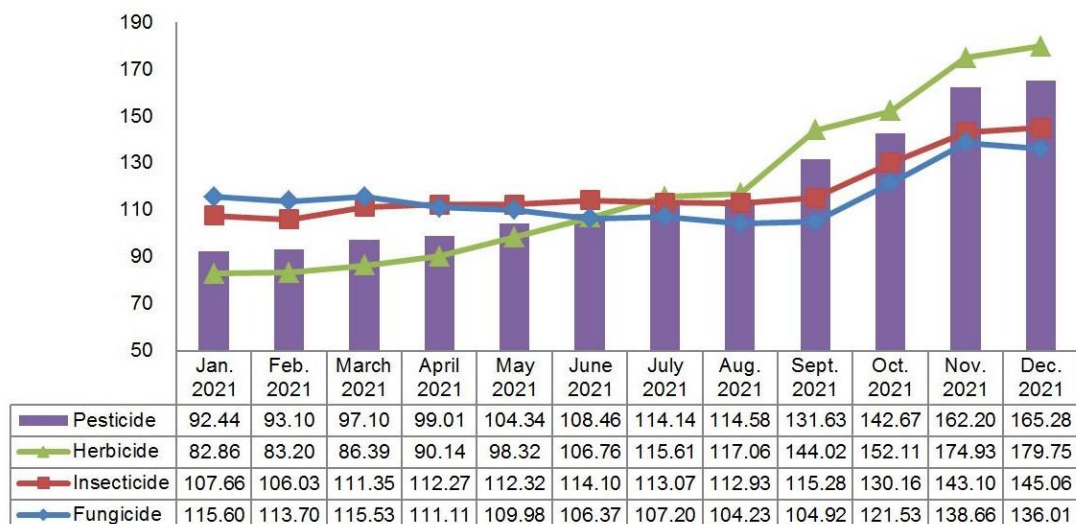
Table 1.1-1 Output ranking of China's mainstream pesticide production areas, 2017–2021

Province/Region	2021	2020	2019	2018	2017
Jiangsu Province	1	1	1	1	1
Sichuan Province	2	3	2	3	5
Shandong Province	3	2	4	5	2
Zhejiang Province	4	4	3	2	3
Anhui Province	5	5	6	7	7
Hunan Province	6	7	12	8	9
Hubei Province	7	6	5	4	4
Henan Province	8	8	7	6	6
Ningxia Hui Autonomous Region	9	11	13	10	11
Hebei Province	10	12	10	11	8
Gansu Province	11	10	17	17	21
Inner Mongolia Autonomous Region	12	9	9	9	10

Source: NBS and CCM

Review of the pesticide industry focus in 2021

Figure 1.1-3 China Agrochemical Price Index (CAPI), Jan. 2021–Dec. 2021



Source: China Crop Protection Industry Association (CCPIA) and CCM

1. Price hikes of pesticides under carbon neutrality and energy control policies

2021 continued a strong growth momentum of agricultural chemical market that has been seen for recent decade. Last year, numbers of overseas orders flooded in China and there was a spike in electricity consumption which collided with the central government's carbon neutrality pledge and policies to control energy consumption & intensity by power rationing and production restriction. These factors along with raw materials' rises somehow led supply shortfalls and sent the pesticide prices high. According to the China Pesticide Industry Association (CCPIA), 85.57% of nearly 100 monitored pesticides have marked increases in prices—thereinto, 29.90% surged by above 40%.

2. Revised production safety law to regulate production practices

On 1 Sept., the newly revised *Work Safety Law of China* came into effect, further clarifying the responsibilities of the supervisory and administrative departments and strengthening the social supervision to improve the whole social production safety integrity level. New provisions to address the new situation and major problems derived from emerging industries such as platform economic are added. Safety management of pesticide is closely related to the safety and health of workers, and sustainable development of enterprises. It should always be the top priority for healthy development of the pesticide industry.

3. Defined management scope of pesticides and veterinary drugs

In view of the rising issues of unclear definition, and discrepancy in cognition and management standards in relation to pesticides and veterinary drugs at home, the General Office of the Ministry of Agriculture and Rural Affairs (MARA) published a letter on *Regulatory Management of Veterinary Drugs and Pesticides* on 8 June, clearing up the definition, functions, application scope and other related matters. Particularly, it rules that the following products are confined to the administrative range of pesticides: products certified for the use in prevention and control of diseases, pests, weeds, rodents and other pests like mosquitoes, flies, cockroaches, and ants that endanger agriculture and forestry.

4. Guidance for chemical industry parks across provinces

On 15 April, the Ministry of Industry and Information Technology of the People's Republic of China (MIIT) issued the *Conditions for Accreditation and Measures for Administration of Chemical Parks (Trial)*, regulating the park construction and standards for safety and green level in order to build a high-quality chemical industry. As of Oct. 2021, there are 543 approved chemical industrial parks or concentrated zones in China spanning over 24 provinces, municipalities, and autonomous regions. Among them, 51, 52, 58 and 85 are located in Hubei Province, Zhejiang, Inner Mongolia and Shandong.

5. M&A driving industry concentration

Along with intensified competition within the industry and rigorous enforcement of environmental protection measures, China's pesticide industry has entered a new round of integration with increasing number of M&A deals settled in the year, to boost adaptability to the ever changing environment and improve technology, product quality and innovation, business services, etc. For instance, on 31 March, Sinochem Group Co., Ltd. (Sinochem Group) merged with China National Chemical Corporation Ltd. (ChemChina); on 9 Aug., Jingzhou Sanonda Holding Co., Ltd. (Sanonda Holdings) transferred its 5.14% stakes in ADAMA to Syngenta Group.

6. Pesticide industrial relocation

Responding to the central government's industrial plans, Chinese pesticide enterprises have started to relocate their production operation since the end of 2018. Inner Mongolia Autonomous Region, Gansu Province, Ningxia Hui Autonomous Region come along as the major destinations of such relocations to the central and western regions. According to the statistics, the number of relocated projects totals 97 in China in 2019–2021, 62.9% (=61) of which focus on pesticide technical and/or its intermediates.

7. Widened application of soybean-corn compound planting technology

On 29 Dec., MARA issued a *notice of the 14th Five-Year Plan (2021–2025) for National Planting Industry Development*, summarising targets to guarantee current food planting areas and increase area for oil crops, expand overall crop-growing areas by deploying idle rural lands and ramp up yield per unit. Specifically, China aims to achieve the followings by 2025:

- Increasing soybean-corn compound areas to 3.33 million ha, thereinto, area for soybean to 1.67 million ha;
- Totalling area of soybean up to 10.67 million ha, with the annual production of 23.00 million tonnes, to raise the soybean self-sufficiency rate.

1.2 Imports and exports of pesticide technical in 2021

In 2021, China remained one of the stable pesticide suppliers for the world, as oppose to most of its foreign counterparts whose production operation have been pinched by the COVID-19 pandemic. Overseas demand rose in this context, driving up the trading volume & value of China's pesticides in the year.

The total import & export value of chemical pesticide in China grew 29.24% in 2021 from the previous year with a trade surplus up 31.95% YoY to over USD6.45 billion. By category, total import & export value and trade surplus in herbicide surged by 47.91% YoY and 47.93% YoY respectively, and in fungicide, the former figure picked up by 8.20% while the later one slipped 5.95% YoY to USD485 million.

Table 1.2-1 Total import & export value and trade surplus of chemical pesticide in China, 2021 vs 2020, million USD

Category	Total import & export value, 2021	Total import & export value, 2020	Trend	Trade surplus	Trend
Pesticides	7,730	5,981	29.24%	6,453	31.95%
- Herbicides	4,827	3,264	47.91%	4,598	47.93%
- Insecticides	1,765	1,666	5.94%	1,369	8.15%
- Fungicides	1,137	1,051	8.20%	485	-5.95%

Source: Tranalysis

Exports

In 2021, more than half of the listed enterprises achieved growths in operating revenues and net profits, benefited from price hikes of major pesticide products and the recovery of international trade. 797,000 tonnes of chemical pesticides were exported from China in the year, increased by 3.46% YoY and valued USD7.09 billion. Note that the export volume for insecticides fell by 3.64% YoY, in contrast to the growths of other categories.

Table 1.2-2 Export volume and value of chemical pesticide in China, 2021 vs 2020

Category	Export volume, '000 tonnes			Export value, million USD		
	2021	2020	Trend	2021	2020	Trend
Pesticides	797	771	3.46%	7,091	5,436	30.46%
- Herbicides	652	629	3.58%	4,713	3,186	47.92%
- Insecticides	65	67	-3.64%	1,567	1,466	6.89%
- Fungicides	81	74	8.84%	811	783	3.54%

Source: Tranalysis

Imports

China's import volume and value of herbicides and fungicides from overseas marked double-digit increases. However, the country's demand for overseas insecticides went sluggish with import volume and value down 7.63% YoY and 1.06% YoY.

Table 1.2-3 Import volume and value of chemical pesticide in China, 2021 vs 2020

Category	Import volume, '000 tonne			Import value, million USD		
	2021	2020	Trend	2021	2020	Trend
Pesticides	60	52	15.04%	639	545	17.07%
- Herbicides	17	14	27.11%	114	78	47.43%
- Insecticides	10	11	-7.63%	198	200	-1.06%
- Fungicides	32	27	18.36%	326	267	21.85%

Source: Tranalysis

2 Overview of 2022 China Top 100 Pesticide Enterprises

2.1 Top crop protection brands in China in 2021

Since 2015, the CCPIA has selected and awarded China crop protection popular pesticide brands based on multiple factors such as market sales, brand value, market share and product performance. These lists could not only reflect the market demand and development potential of the pesticide products, but also play an important role in measuring the strength of domestic products and predicting the domestic market. The list of popular pesticide brands in China in 2021 represents 89 products made by 75 enterprises. The listed brands cover 10 herbicide products, 10 plant growth regulator products, 13 insecticide products, 15 biopesticide products, 21 fungicide products and 20 blockbuster possible products.

Table 2.1-1 List of 2021 China Crop Protection Popular Herbicide Brands

No.	Enterprise	Product	Brand
1	Hebei Veyong Bio-chemical Co., Ltd.	Glufosinate ammonium 200g/L AS	Zidian Qingshuang
2	Shandong Kesai Agrochem Holdings Co., Ltd.	Flumioxazin-Glufosinate-ammonium 66% WP	Kesai Baojie
3	Lianyungang Liben Crop Science Co., Ltd.	Atrazine 90% WG	Liben
4	Anhui Huaxing Chemical Industry Co., Ltd.	Glyphosate 41% IPA	Yinggellan
5	Henan Hansi Crop Protection Co., Ltd.	Mesotrione-Nicosulfuron-Atrazine 26% OD	Hansiyu Meihao
6	Hunan Xinchangshan Agriculture Development Co., Ltd.	Topramezone 4% OD	Yuzhou
7	FMC (China) Investment Co., Ltd.	Metamifop-Cyhalofop-butyl 10% EC	Daoqingqing
8	Anhui Huilong Group Youngsun Pesticides Co., Ltd.	Penoxsulam-Pretilachlor 31% OD	Yinshan Gongdao
9	Jiangsu State Farms Biochemistry Co., Ltd.	MCPA-Bentazone 38% SL	Nongduoxian
10	Hefei Xingyu Chemical Co., Ltd.	Oxadiargyl 400g/L SC	Daoguanjia-Feng

Note: The product "Flumioxazin-Glufosinate-ammonium 66% WP" is registered by Shandong Kesai Agrochem Co., Ltd., a wholly-owned subsidiary of Shandong Kesai Agrochem Holdings Co., Ltd.
Source: CCPIA & CCM

Table 2.1-2 List of 2021 China Crop Protection Popular Insecticide Brands

No.	Enterprise	Product	Brand
1	Sinochem International Crop Care Company Limited	Cyetyprafen 30% SC	Baozhuo
2	Jiangsu Rotam Chemistry Co., Ltd.	Cypermethrin-Imidacloprid 33% SC	Jinrong
3	Corteva Agriscience (Shanghai) Co., Ltd.	Triflumezopyrim 10% SC	Baijinglong
4	Bayer CropScience China Co., Ltd.	Spirotetramat 22.4% SC	Miaotewang
5	Syngenta (China) Investment Co., Ltd.	Thiamethoxam 30% FS	Ruisheng
6	Jinan Zhongke Green Biotechnology Co., Ltd.	Abamectin-Etoxazole 12% SC	Jiayu
7	BASF (China) Co., Ltd.	Afidopyropen 50g/L DC	Yingwei
8	Yixing Yizhou Chemical Products Co., Ltd.	Buprofezin 40% WG	Yizhou
9	Shandong Zhongxin Kenong Bio-technology Co., Ltd.	Emamectin benzoate-Chlorfenapyr 10% SC	Babiao
10	Hunan Haili Chemical Industry Co., Ltd.	Pirimiphos-methyl 55% EC	Cangying
11	Nantong Shizhuang Chemical Co., Ltd.	Indoxacarb 30% WG	Haihu
12	Shanghai Hulian Biological Pharmaceutical (Xiayi) Co., Ltd.	Nitenpyram-Pymetrozine 80% WG	Jianfei
13	Shaanxi Hengtian Biological Agriculture Co., Ltd.	Fonicamid-Acetamiprid 35% WG	Anjian

Note: The product "Cyetyprafen 30% SC" is registered by Shenyang Sciencreat Chemicals Co., Ltd., a subsidiary of Sinochem International Crop Care Company Limited.

Source: CCPIA & CCM

Table 2.1-3 List of 2021 China Crop Protection Popular Fungicide Brands

No.	Enterprise	Product	Brand
1	Jiangsu Rotam Chemistry Co., Ltd.	Pyraclostrobin-Prochloraz 40% EW	Fuzhuo
2	Syngenta (China) Investment Co., Ltd.	Difenoconazole-Propiconazole 300g/L EC	Aimiao
3	Zhejiang Longwan Chemicals Co., Ltd.	Thiodiazole copper 20% SC	Long Kejun
4	Anhui Jiuyi Agriculture Co., Ltd.	Prothioconazole 30% OD	Jiuyaojiu
5	Syngenta (China) Investment Co., Ltd.	Propiconazole-Azoxystrobin 18.7% SE	Yangcai
6	BASF (China) Co., Ltd.	Mefentrifluconazole-Pyraclostrobin 400g/L SC	Ruishou Guoxiang
7	Shaanxi Xidahuate Co., Ltd.	Benzisothiazolinone 30% WG	Xisha
8	Limin Chemical Co., Ltd.	Mancozeb 80% WP	Limin Lingxiu
9	Dongguan Ruidefeng Biotechnology Co., Ltd.	Pyraclostrobin-Tebuconazole 40% SC	Bi'a
10	Jiangsu Pesticide Research Institute Co., Ltd.	Tebuconazole-Phenamacril 480g/L SC	Jinxing
11	Hebei Shuangji Chemicals Co., Ltd.	Pyraclostrobin-Metiram 60% WG	Shuangji Fuyin

No.	Enterprise	Product	Brand
12	ADAMA (Beijing) Agricultural Technology Co., Ltd.	Fluensulfone 40% EC	Nimite
13	Sinochem International Crop Care Company Limited	Flumorph 30% SC	Qilu
14	Corteva Agriscience (Shanghai) Co., Ltd.	Famoxadone-Oxathiapiprolin 31% SC	Zengwei Yinbei
15	Jiangxi Buffett Chemical Co., Ltd.	Difenoconazole-Fludioxonil-Thiamethoxam 25% FSC	Jingdun
16	Jiangxi Heyi Chemical Co., Ltd.	Ethirimol 25% SC	Fenxing
17	Zhejiang Welldone Chemicals Co., Ltd.	Thifluzamide 240g/L SC	Fulegu
18	Hangzhou Udragon Chemical Co., Ltd.	Metalaxyl-M-Fludioxonil-Azoxystrobin 11% FSC	Yulong Fuli
19	Shandong Kangqiao Biotechnology Co., Ltd.	Pyraclostrobin-Epoconazole 38% SC	Xiduojin
20	Hainan Bosswell Biotechnology Co., Ltd.	Propamocarb hydrochloride-Metalaxyl-M 60% AS	Caiyan
21	Shandong Sino-Agri United Biotechnology Co., Ltd.	Pyraclostrobin-Fluopimomide 30% ZC	Zengcai

Note: 1. The product "Flumorph 30% SC" is registered by Shenyang Sciencreat Chemicals Co., Ltd., a subsidiary of Sinochem International Crop Care Company Limited. 2. The product "Pyraclostrobin-Fluopimomide 30% ZC" is registered by Shandong United Pesticide Industry Co., Ltd., a subsidiary of Shandong Sino-Agri United Biotechnology Co., Ltd.

Source: CCPIA & CCM

Table 2.1-4 List of 2021 China Crop Protection Popular Plant Growth Regulator Brands

No.	Enterprise	Product	Brand
1	Jiangsu Reput Agrochemical Co., Ltd.	Thidiazuron-Diuron 540g/L SC	Ruibang Mianyueluoqing
2	Jiangxi New Reyphon Biochemical Co., Ltd.	Gibberellic acid 3% EC	Ruifeng
3	Jiangsu Fengshan Group Co., Ltd.	14-Hydroxylated brassinosteroid 0.01% AS	Sufengyuan
4	Shaanxi Yitianfeng Crop Technology Co., Ltd.	Sodium nitrophenolate-Diethyl aminoethyl hexanoate 3% AS	Juxing
5	Jiangsu Sevencontinent Green Chemical Co., Ltd.	Paclobutrazol 25% SC	Qizhou
6	Pilar (Shanghai) Biotech Co., Ltd.	14-Hydroxylated brassinosteroid-Indol-3-ylacetic acid-Gibberellic acid 0.136% WP	Biyi
7	Zhejiang Corechem Co., Ltd.	Ethephon 40% SL	Qinliyu
8	Shanxi Haozhida Biotechnology Co., Ltd.	Prohexadone calcium-Uniconazole 15% WG	Daoshuojin
9	Zhejiang Longyou Eastern Anasac Crop Science Co., Ltd.	Cyanamide 50% AS	Youmeiya
10	Sichuan Guoguang Agricultural Materials Co., Ltd.	Sodium 4-CPA 8% SP	Guoguang Beijia

Note: 1. The product "14-Hydroxylated brassinosteroid-Indol-3-ylacetic acid-Gibberellic acid 0.136% WP" is registered by Pilarquim (Jiangsu) Co., Ltd., a subsidiary of Pilar (Shanghai) Biotech Co., Ltd. 2. The product "Ethephon 40% SL" is registered by Jiangsu Corechem Co., Ltd., a subsidiary of Zhejiang Corechem Co., Ltd. 3. The product "Sodium 4-CPA 8% SP" is registered by Sichuan Runer Technology Co., Ltd., a subsidiary of Sichuan Guoguang Agricultural Materials Co., Ltd.

Source: CCPIA & CCM

Table 2.1-5 List of 2021 China Crop Protection Popular Biopesticide Brands

No.	Enterprise	Product	Brand
1	Hainan Zhengye Zhongnong High-tech Co., Ltd.	Oligosaccharins 5% AS	Zhengye Haidaosu
2	Bayer CropScience China Co., Ltd.	Bacillus amyloliquefaciens strain QST713 1 billion CFU/g SC	Zhuorun
3	Liaoning Wkioc Bioengineering Co., Ltd.	Tetramycin 0.3% AS	Shuanggong Miding
4	Hunan Xinchangshan Agricultural Development Co., Ltd.	Rhodovulum sulfidophilum HNI-1 200 million CFU/ML SC	Yasili
5	Deqiang Biology Co., Ltd.	Bacillus subtilis 10 billion CFU/g WP	Qiangpin
6	Jiangmen Plant Protection Co., Ltd.	Kasugamycin 2% AS	Cailong
7	Jiangxi Zhengbang Crop Protection Co., Ltd.	Zhongshengmycin 3% WP	Xianrun
8	Chengdu Newsun Crop Science Co., Ltd.	Veratramine 0.1% SL	Lemanyuan
9	Chengdu Green Gold Biotechnology Co., Ltd.	Azadirachtin 1% WG	Awala
10	Shandong Shengpeng Technology Co., Ltd.	Fungous proteoglycan 2% AS	Shouzhan
11	Shaanxi Hengtian Biological Agriculture Co., Ltd.	Bacillus methylotro-phicus LW-6 8 billion CFU/g WP	Anwanxi
12	Chengdu Tepu Biotech Co., Ltd.	Trichoderma harzianum 100 million CFU/g WG	Taikang
13	Shanghai Wanlihua Biotechnology Co., Ltd.	Trichoderma SP 200 million CFU/g WP	Dongfang Nongyun
14	Shanghai Nongle Biological Products Co., Ltd.	Jingangmycin 2%-Bacillus cereus 800 million CFU/g SC	Wenquling
15	Wuhan Kernel Bio-tech Co., Ltd.	Bacillus thuringiensis HAN055 20 billion CFU/g WP	Bilei

Note: The product "Jingangmycin 2%-Bacillus cereus 800 million CFU/g SC" is registered as "Jingangmycin 4%-Bacillus cereus 1.6 billion CFU/g SC" in CCPIA.

Source: CCPIA & CCM

Table 2.1-6 List of 2021 China Crop Protection Blockbuster Possible Products

No.	Enterprise	Product	Brand
1	Syngenta (China) Investment Co., Ltd.	Pydiflumetofen 200g/L SC	Maitian
2	Bayer CropScience China Co., Ltd.	Tetraniliprole 200g/L SC	Guoteng
3	BASF (China) Co., Ltd.	Broflanilide 100g/L SC	Geligao
4	Yongnong BioSciences Co., Ltd.	Glufosinate-P 10% SL	Jinbaisu
5	Jiangxi Windeal Biotechnology Co., Ltd.	28-Homobrassinolide-Gibberellic acid A4, A7 0.5% SL	Guohaomai
6	Shandong Runyang Chemical Co., Ltd.	Flumioxazin-Glufosinate-ammonium 20% OD	Liangong
7	Anhui Zhongbang Biological Engineering Co., Ltd.	Metamifop-Cyhalofop-butyl 20% EC	Zhongbang Qixiang
8	Jiangxi Zhongxun Agro-Chemical Co., Ltd.	Chlorfenapyr-Chlorantraniliprole 30% SC	Hudun
9	Hailir Pesticides and Chemicals Group Co., Ltd.	Chlorfenapyr 360g/L SC	Feixiu
10	Anhui Meilan Agricultural Development Co., Ltd.	Thiamethoxam-Lambda-cyhalothrin 25% SC	Zhenfu
11	Sinochem International Crop Care Company Limited	Pyrisoxazole 25% EW	Chuanglu
12	Qingdao Jin'er Agriculture Chemical Research and Development Co., Ltd.	Fludioxonil-Thifluzamide-Clothianidin 6.2% FS	Jin'erdi Zhuangyuan
13	Jiangxi Zhengbang Crop Protection Co., Ltd.	Tetraconazole-Bupirimate 30% EW	Yefeng
14	Jingbo Agrochemicals Technology Co., Ltd.	Fonicamid-Spirotetramat 40% SC	Jingbo Dukadi
15	Jiangmen Plant Protection Co., Ltd.	Kasugamycin-Oxine-copper 36% SC	Chunxian
16	Yanhua Yoloo (Laoting) Biotechnology Co., Ltd.	Spinosad-Emamectin benzoate 10% WG	Jina
17	Guangxi Beijiaer Biological Chemistry Product Co., Ltd.	Indoxacarb-Chlorfenapyr 30% SC	Tianyue
18	Jiangsu Kwin Group Co., Ltd.	Spirotetramat-Thiamethoxam 30% SC	Kesheng Wanjian
19	Anhui Fengle Agrochemical Co., Ltd.	Diflufenican-Isoproturon 55% SC	Fengle Yinliantou
20	Yancheng Limin Chemical Co., Ltd.	Thifluzamide-Azoxystrobin 40% SC	Huanglongquanna

Note: 1. The product "Pyrisoxazole 25% EW" is registered by Shenyang Sciencreat Chemicals Co., Ltd., a subsidiary of Sinochem International Crop Care Company Limited. 2. The product "Chlorfenapyr 360g/L SC" is registered by Shandong Hailir Chemical Co., Ltd., a subsidiary of Hailir Pesticides and Chemicals Group Co., Ltd.

Source: CCPIA & CCM

2.2 China's pesticide enterprise lists by sales revenue in 2021

The China Crop Protection Industry Association (CCPIA) pushed the List of 2022 China Top 100 Pesticide Enterprises (hereinafter referred to as the pesticide list) and the List of 2022 China Top 100 Pesticide Formulation Enterprises ((hereinafter referred to as the formulation list) ranking by sales in 2021 on the 9th Analysis Meeting of Economic Operation in Pesticide Industry held on 7 July, 2022.

In general, both total revenue and the entry thresholds for the 2022 listed top 100 pesticide/formulation enterprises increased and the sales of the top 10 for both lists accounted for about 40% of the total. Statistics show that the scale of formulation manufacturers was small on average, but the overall sales performance has increased significantly.

Regarding the enterprises to be overlapping in the two 2022 Top 100 enterprise lists, 31 companies were listed in both. Thereinto, the companies included in one list but owned by the same group are considered as the overlapped names. Besides, some were subsidiaries owned by the parents, which are listed as well.

Cases in point:

- Syngenta Group China: Syngenta Nantong Crop Protection Co., Ltd. (27th in the pesticide list) and Syngenta (Suzhou) Crop Protection Co., Ltd. (99th in the pesticide list and 26th in the formulation list)
- FMC China Investment: FMC (Shanghai) Agricultural Sciences Co., Ltd. (43th in the pesticide list) and FMC (Suzhou) Crop Care Co., Ltd. (74th in the pesticide list and 11th in the formulation list)
- Shandong Kesai Agrochem Co., Ltd. (12th in the formulation list), owned by Shandong Kesai Agrochem Holdings Co., Ltd. (58th in the pesticide list)
- Qilu Pharmaceutical (Inner Mongolia) Co., Ltd. (36th in the pesticide list), owned by Qilu Synva Pharmaceutical Co., Ltd. (91st in the pesticide list)

Table 2.2-1 Overlapping names in the two 2022 Top 100 Pesticide Enterprise Lists

No.	Name	2021 Revenue, million USD	YoY Change based on RMB	Ranking in the pesticide list	Ranking in the formulation list
1	Shenzhen Noposion Agrochemicals Co., Ltd.	3,249	16.70%	23	1
2	Guangdong Zhongxun Agri-science Corporation	3,176	46.97%	25	2
3	Syngenta Nantong Crop Protection Co., Ltd.	2,701	27.11%	27	/
4	Syngenta (Suzhou) Crop Protection Co., Ltd.	511	3.44%	99	26
5	Jiangxi Zhengbang Crop Protection Co., Ltd.	2,134	21.25%	34	3
6	Qilu Pharmaceutical (Inner Mongolia) Co., Ltd.	1,958	-2.30%	36	/
7	Qilu Synva Pharmaceutical Co., Ltd.	565	-11.30%	91	/
8	Guangxi Tianyuan Biochemistry Co., Ltd.	1,619	6.09%	45	4
9	Jiangsu Rotam Chemistry Co., Ltd.	1,493	18.49%	52	5
10	BASF Crop Protection (Jiangsu) Co., Ltd.	1,296	22.50%	57	6
11	Jiangsu Essence Agrochemicals Co., Ltd.	1,257	19.15%	59	7
12	Qiaochang Modern Agriculture Co., Ltd.	1,166	6.29%	63	8
13	Sichuan Guoguang Agrochemical Co., Ltd.	949	17.31%	69	9
14	Chongqing Shurong Crop Science Co., Ltd.	928	13.03%	73	10
15	FMC (Shanghai) Agricultural Sciences Co., Ltd.	1,676	/	43	/

No.	Name	2021 Revenue, million USD	YoY Change based on RMB	Ranking in the pesticide list	Ranking in the formulation list
16	FMC (Suzhou) Crop Care Co., Ltd.	925	-3.44%	74	11
17	Shandong Kesai Agrochem Co., Ltd.	920	13.44%	/	12
18	Shandong Kesai Agrochem Holdings Co., Ltd.	1,289	18.69%	58	/
19	Zhejiang Welldone Chemicals Co., Ltd.	908	6.70%	76	13
20	Pilar (Shanghai) Biotech Co., Ltd.	845	18.02%	79	14
21	Shaanxi Meibang Pharmaceutical Group Co., Ltd.	842	/	81	15
22	Guangxi Yiduoshou Biotechnology Co., Ltd.	779	5.56%	82	16
23	Anhui Zhongbang Biological Engineering Co., Ltd.	735	11.87%	83	17
24	Jinan Tianbang Chemical Co., Ltd.	683	4.92%	86	18
25	Anhui Yinong Chemical Co., Ltd.	627	11.57%	90	19
26	Sunong (Guangde) Biotechnology Co., Ltd.	558	173.53%	92	20
27	Shaanxi Sunger Road Bio-science Co., Ltd.	544	8.15%	93	21
28	Jilin Bada Pesticide Co., Ltd.	532	1.14%	94	22
29	Yixing Xingnong Chemical Products Co., Ltd.	528	17.07%	96	23
30	Hainan Zhengye Zhongnong High-tech Stock Co., Ltd.	517	14.89%	97	24
31	Shandong Vicome Greenland Chemical Co., Ltd.	515	0.59%	98	25

Source: CCPIA & CCM

There are 10 new entrants in the pesticide list and 15 new ones in the formulation list, compared with the lists of the previous year.

Key takeaway:

- Sunong (Guangde) Biotechnology Co., Ltd., Yixing Xingnong Chemical Products Co., Ltd., and Hainan Zhengye Zhongnong High-tech Stock Co., Ltd. broke into the 2022 pesticide list as the 92nd (and 20th in the formulation list), 96th (and 23rd in the formulation list) and 97th (and 24th in the formulation list), respectively—the three only entered the 2021 formulation list before.
- Shaanxi Meibang Pharmaceutical Group Co., Ltd. appeared in both lists for the first time, with the annual sales of USD130 million (RMB842 million) in 2021, claiming the 81st in the pesticide list (and 15th in the formulation list).
- In addition, Beijing Kangbang Fuze Biotech Co., Ltd. broke into the 2022 pesticide list as the 60th, yet its subsidiary Hebei Yetian Agrochemicals Co., Ltd. entered the 2021 pesticide list before as the 77th.

Table 2.2-2 New entrants in the 2022 Pesticide Enterprise List

No.	Enterprise	Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD	Ranking
1	FMC (Shanghai) Agricultural Sciences Co., Ltd.	1,676	259	43
2	Zhejiang Tide CropScience Co., Ltd.	1,562	242	48
3	Beijing Kangbang Fuze Biotech Co., Ltd.	1,243	192	60
4	Jiangsu Baozong & Baoda Pharmaceutical Co., Ltd.	845	131	79
5	Shaanxi Meibang Pharmaceutical Group Co., Ltd.	842	130	81
6	Yingde Greatchem Chemicals Co., Ltd.	645	100	88
7	Sunong (Guangde) Biotechnology Co., Ltd.	558	86	92
8	Jiangsu Yong'an Chemical Co., Ltd.	530	82	95
9	Yixing Xingnong Chemical Products Co., Ltd.	528	82	96
10	Hainan Zhengye Zhongnong High-Tech Co., Ltd.	517	80	97

Source: CCPIA & CCM

Table 2.2-3 New entrants in the 2022 Pesticide Formulation Enterprise List

No.	Enterprise	Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD	Ranking
1	Shaanxi Meibang Pharmaceutical Group Co., Ltd.	842	130	15
2	Zhejiang Tianfeng Biological Science Co., Ltd.	338	52	42
3	Yancheng Limin Chemical Co., Ltd.	247	38	50
4	Tongzhou Zhengda Pesticides & Chemicals Co., Ltd.	214	33	60
5	Chengdu Newsun Crop Science Co., Ltd.	200	31	63
6	Hangzhou Bonghua Biological Technology Co. Ltd.	198	31	65
7	Tianjin Boke Baisheng Technology Co., Ltd.	154	24	80
8	Anhui Richen Plant Protection Engineering Co., Ltd.	151	23	81
9	Jiangmen Daguangming Agrochemical Xinhui Co., Ltd.	137	21	86
10	Nanjing BaoFeng Pesticide Co., Ltd.	125	19	89
11	Xianglin Mefront Biotechnology (Huai'an) Co., Ltd.	125	19	89
12	Liyang Zhongnan Chemical Industry Co., Ltd.	115	18	95
13	Jiangsu Futian Agrochemical Co., Ltd.	114	18	96
14	Shanghai Shenglian Chemical Co., Ltd.	112	17	98
15	Nanjing NAU Pesticide Technology Co., Ltd.	110	17	99

Source: CCPIA & CCM

3 2022 Top Pesticide Enterprises in China

3.1 China's Top 100 Pesticide Enterprises

In the pesticide list, at least 81 among the top 100 achieved an increase in sales revenue over 2020. Statistics show that the total sales of the top 100 pesticide enterprises reached USD39.37 billion (RMB254.41 billion), with a yearly increase (based on RMB, the same as below) of 22.00% vs. the growth of 13.57% in the previous year; In 2022, the threshold for entry rose to USD78 million (RMB504 million), up 11.75% from the previous USD65 million (RMB451 million).

In terms of sales performance in 2021, the top 11 enterprises meet sales above the level of USD774 million (RMB5 billion). 57 enterprises' sales in the year were within the range of USD155 million (RMB1 billion) to USD774 million (RMB5 billion).

The 2022 top four enterprises remained the same compared with the 2021 list and the top 10 ranked in USD15.60 billion (RMB100.79 billion) in pesticide business, up by 28.53% over the previous year, accounting for 39.62% of the total sales on the list.

- ADAMA Ltd. takes the lead with over USD4.34 billion (RMB28 billion) of revenue, which more than double its followers Jiangsu Yangnong Chemical Co., Ltd. (2nd)'s USD1.81 billion (RMB11.71 billion) of revenue.
- The 3rd and 4th go to Shandong Weifang Rainbow Chemical Co., Ltd. and Sino-Agri Leading Biosciences Co., Ltd., with sales of USD1.50 billion (RMB9.68 billion) and USD1.36 billion (RMB8.81 billion) in 2021, separately. Both of them registered a yearly increase over 33%.

Table 3.1-1 List of 2022 China Top 100 Pesticide Enterprises

No.	Enterprise	Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD	YoY Change		Ranking in 2021	Ranking change
				based on RMB	Ranking in 2021		
1	ADAMA Ltd.	28,047	4,341	8.89%	16.75%	1	0
2	Jiangsu Yangnong Chemical Co., Ltd.	11,710	1,812	20.05%	28.73%	2	0
3	Shandong Weifang Rainbow Chemical Co., Ltd.	9,681	1,498	33.79%	43.46%	3	0
4	Sino-Agri Leading Biosciences Co., Ltd.	8,806	1,363	33.20%	42.83%	4	0
5	Zhejiang Wynca Chemical Industrial Group Co., Ltd.	7,640	1,182	25.64%	34.72%	6	1
6	Lianyungang Liben Crop Science Co., Ltd.	7,599	1,176	61.75%	73.44%	7	1
7	Hubei Xingfa Chemicals Group Co., Ltd.	7,548	1,168	72.05%	84.49%	9	2
8	Nutrichem Co., Ltd.	7,288	1,128	17.81%	26.33%	5	-3
9	Fuhua Tongda Agro-chemical Technology Co., Ltd.	6,470	1,001	111.37%	126.64%	16	7
10	Lier Chemical Co., Ltd.	5,999	928	29.18%	38.51%	8	-2
11	Sichuan Hebang Biotechnology Co., Ltd.	5,249	812	74.62%	87.24%	18	7
12	Nanjing Red Sun Co., Ltd.	4,672	723	17.21%	25.68%	10	-2

No.	Enterprise	Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD	YoY Change		Ranking in 2021	Ranking change
				based on RMB	Ranking in 2021		
13	Jiangsu Sevencontinent Green Chemical Co., Ltd.	4,573	708	20.79%	29.52%	12	-1
14	Lianhe Chemical Technology Co., Ltd.	4,277	662	57.82%	69.23%	23	9
15	Limin Group Co., Ltd.	4,240	656	9.05%	16.93%	11	-4
16	Nantong Jiangshan Agrochemical & Chemicals Co., Ltd.	3,907	605	29.50%	38.86%	17	1
17	Shandong Binnong Technology Co., Ltd.	3,891	602	10.63%	18.63%	13	-4
18	Zhejiang Zhongshan Chemical Industry Group Co., Ltd.	3,808	589	31.45%	40.94%	21	3
19	Jiangsu Changqing Agrochemical Co., Ltd.	3,683	570	25.79%	34.87%	20	1
20	Hailir Pesticides and Chemicals Group Co., Ltd.	3,607	558	14.73%	23.02%	15	-5
21	Anhui Guangxin Agrochemical Co., Ltd.	3,361	520	-1.21%	5.93%	14	-7
22	CAC Nantong Chemical Co., Ltd.	3,354	519	13.23%	21.42%	19	-3
23	Shenzhen Noposion Agrochemicals Co., Ltd.	3,249	503	16.70%	25.14%	22	-1
24	Yongnong BioSciences Co., Ltd.	3,239	501	40.64%	50.81%	25	1
25	Guangdong Zhongxun Agri-science Corporation	3,176	492	46.97%	57.59%	26	1
26	Shandong Luba Chemical Co., Ltd.	2,914	451	25.39%	34.45%	24	-2
27	Syngenta Nantong Crop Protection Co., Ltd.	2,701	418	27.11%	36.29%	27	0
28	Guangdong Liwei Chemical Industry Co., Ltd.	2,626	406	34.12%	43.81%	33	5
29	Yifan Biotechnology Group Co., Ltd.	2,486	385	42.14%	52.41%	38	9
30	Ningbo Sunjoy Agrosience Co., Ltd.	2,245	347	14.25%	22.50%	32	2
31	Shandong Cynda Chemical Co., Ltd.	2,179	337	15.90%	24.28%	34	3
32	Jiangsu Flag Chemical Industry Co., Ltd.	2,169	336	17.31%	25.78%	35	3
33	Hebei Xingbai Agricultural Technology Co., Ltd.	2,151	333	7.44%	15.21%	31	-2

No.	Enterprise	Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD	YoY Change		Ranking in 2021	Ranking change
				based on RMB	Ranking in 2021		
34	Jiangxi Zhengbang Crop Protection Co., Ltd.	2,134	330	21.25%	30.01%	36	2
35	Bayer CropScience China Co., Ltd.	2,099	325	1.89%	9.26%	28	-7
36	Qilu Pharmaceutical (Inner Mongolia) Co., Ltd.	1,958	303	-2.30%	4.76%	30	-6
37	Corteva Agriscience (Shanghai) Co., Ltd.	1,927	298	-4.27%	2.64%	29	-8
38	Jingbo Agrochemicals Technology Co., Ltd.	1,870	289	7.47%	15.24%	39	1
39	Hunan Haili Chemical Industry Co., Ltd.	1,825	282	16.09%	24.48%	40	1
40	Jiangsu Agrochem Laboratory Co., Ltd.	1,767	273	18.43%	26.99%	44	4
41	Trust Crop Protection Technology Co., Ltd.	1,745	270	43.74%	54.13%	55	14
42	Jiangsu Good Harvest-Weien Agrochemical Co., Ltd.	1,744	270	36.25%	46.10%	51	9
43	FMC (Shanghai) Agricultural Sciences Co., Ltd.	1,676	259	/	/	/	/
44	Anhui Huaxing Chemical Industry Co., Ltd.	1,650	255	14.50%	22.78%	48	4
45	Guangxi Tianyuan Biochemistry Co., Ltd.	1,619	251	6.09%	13.76%	41	-4
46	Qingdao Hansen Biologic Science Co., Ltd.	1,613	250	5.84%	13.49%	42	-4
47	Zhejiang Heben Pesticide & Chemicals Co., Ltd.	1,597	247	6.25%	13.93%	43	-4
48	Zhejiang Tide CropScience Co., Ltd.	1,562	242	/	/	/	/
49	Hubei Benxing Agrochemical Co., Ltd.	1,550	240	195.24%	216.57%	94	45
50	Shandong Sino-Agri United Biotechnology Co., Ltd.	1,530	237	4.29%	11.83%	47	-3
51	Jiangsu Fengshan Group Co., Ltd.	1,518	235	1.74%	9.09%	45	-6
52	Jiangsu Rotam Chemistry Co., Ltd.	1,493	231	18.49%	27.05%	53	1
53	Synwill Co., Ltd.	1,458	226	17.77%	26.28%	54	1
54	Jiangsu Lanfeng Bio-chemical Co., Ltd.	1,444	223	24.27%	33.25%	57	3

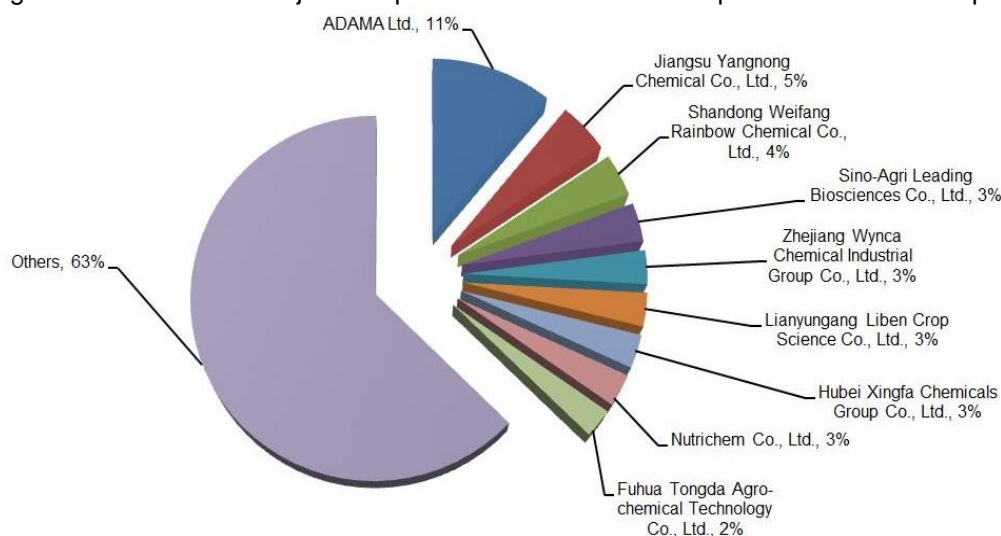
No.	Enterprise	Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD	YoY Change		Ranking in 2021	Ranking change
				based on RMB	Ranking in 2021		
55	Zhejiang Jinfanda Biochemical Co., Ltd.	1,373	212	53.24%	64.31%	67	12
56	Anhui Fengle Agrochemical Co., Ltd.	1,372	212	-21.73%	-16.08%	37	-19
57	BASF Crop Protection (Jiangsu) Co., Ltd.	1,296	201	22.50%	31.35%	62	5
58	Shandong Kesai Agrochem Holdings Co., Ltd.	1,289	199	18.69%	27.27%	61	3
59	Jiangsu Essence Agrochemicals Co., Ltd.	1,257	195	19.15%	27.76%	63	4
60	Beijing Kangbang Fuze Biotech Co., Ltd.	1,243	192	/	/	/	/
61	Hebei Lansen Biotech Co., Ltd.	1,230	190	19.53%	28.17%	64	3
62	Shandong Huayang Pesticide Chemical Industry Group Co., Ltd.	1,171	181	2.36%	9.76%	58	-4
63	Qiaochang Modern Agriculture Co., Ltd.	1,166	180	6.29%	13.97%	59	-4
64	Suli Co., Ltd.	1,125	174	20.45%	29.15%	66	2
65	Zhejiang Xinnong Chemical Co., Ltd.	1,119	173	-4.85%	2.03%	56	-9
66	Maxunitech Inc.	1,102	171	-25.99%	-20.64%	46	-20
67	Jiangsu Reopnt Agrochemical Co., Ltd.	1,046	162	-4.30%	2.62%	60	-7
68	Shandong A & Fine Agrochemicals Co., Ltd.	1,012	157	-20.38%	-14.62%	52	-16
69	Sichuan Guoguang Agrochemical Co., Ltd.	949	147	17.31%	25.78%	73	4
70	Henan HDF Chemical Co., Ltd.	948	147	94.66%	108.73%	98	28
71	Lion Agrevo (Jiangsu) Co., Ltd.	947	147	18.08%	26.61%	74	3
72	Jiangsu Sword Agrochemicals Co., Ltd.	930	144	6.90%	14.62%	69	-3
73	Chongqing Shurong Crop Science Co., Ltd.	928	144	13.03%	21.20%	72	-1
74	FMC (Suzhou) Crop Care Co., Ltd.	925	143	-3.44%	3.53%	65	-9
75	Hangzhou Udragon Chemical Co., Ltd.	913	141	1.90%	9.26%	68	-7
76	Zhejiang Welldone Chemicals Co., Ltd.	908	141	6.70%	14.41%	70	-6

No.	Enterprise	Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD	YoY Change		Ranking in 2021	Ranking change
				based on RMB	Ranking in 2021		
77	Hebei Guanlong Agrochemical Co., Ltd.	906	140	9.16%	17.04%	71	-6
78	Anhui Jiuyi Agriculture Co., Ltd.	886	137	34.86%	44.60%	80	2
79	Pilar (Shanghai) Biotech Co., Ltd.	845	131	18.02%	26.54%	78	-1
79	Jiangsu Baozong & Baoda Pharmaceutical Co., Ltd.	845	131	/	/	/	/
81	Shaanxi Meibang Pharmaceutical Group Co., Ltd.	842	130	/	/	/	/
82	Guangxi Yiduoshou Biotechnology Co., Ltd.	779	121	5.56%	13.18%	76	-6
83	Anhui Zhongbang Biological Engineering Co., Ltd.	735	114	11.87%	19.96%	79	-4
84	Zibo NAB Agrochemicals Limited	719	111	15.97%	24.35%	85	1
85	Jiangsu Huifeng Bio Agriculture Co., Ltd.	711	110	-49.57%	-45.93%	49	-36
86	Jinan Tianbang Chemical Co., Ltd.	683	106	4.92%	12.50%	81	-5
87	Jilin Jinqiu Pesticide Co., Ltd.	675	104	22.73%	31.60%	90	3
88	Yingde Greatchem Chemicals Co., Ltd.	645	100	/	/	/	/
89	Ningxia Ruitai Technology Co., Ltd.	639	99	13.50%	21.70%	88	-1
90	Anhui Yinong Chemical Co., Ltd.	627	97	11.57%	19.63%	89	-1
91	Qilu Synva Pharmaceutical Co., Ltd.	565	87	-11.30%	-4.89%	82	-9
92	Sunong (Guangde) Biotechnology Co., Ltd.	558	86	173.53%	193.29%	/	/
93	Shaanxi Sunger Road Bioscience Co., Ltd.	544	84	8.15%	15.97%	96	3
94	Jilin Bada Pesticide Co., Ltd.	532	82	1.14%	8.45%	93	-1
95	Jiangsu Yong'an Chemical Co., Ltd.	530	82	/	/	/	/
96	Yixing Xingnong Chemical Products Co., Ltd.	528	82	17.07%	25.72%	/	/
97	Hainan Zhengye Zhongnong High-tech Stock Co., Ltd.	517	80	14.89%	23.10%	/	/

No.	Enterprise	Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD	YoY Change		Ranking in 2021	Ranking change
				based on RMB	Ranking in 2021		
98	Shandong Vicome Greenland Chemical Co., Ltd.	515	80	0.59%	7.85%	95	-3
99	Syngenta (Suzhou) Crop Protection Co., Ltd.	511	79	3.44%	10.92%	97	-2
100	Jiangsu Weunite Fine Chemical Co., Ltd.	504	78	-14.86%	-8.71%	86	-14

Source: CCPIA & CCM

Figure 3.1-1 Shares of major enterprises of the 2022 China Top 100 Pesticide Enterprise List



Source: CCM

By annual growth, 8 listed here reported over 50% increases in 2021 sales; while 12 marked sales decline—this number is down by 7 compared with the list for one year before.

Table 3.1-2 List of the pesticide enterprises with growth rate of annual revenue exceeding 50%, 2021

No.	Enterprise	YoY Change		Pesticide revenue in 2021, million USD	Ranking in 2022	Ranking change
		based on RMB	Pesticide revenue in 2021, million USD			
1	Hubei Benxing Agrochemical Co., Ltd.	195.24%	216.57%	240	49	45
2	Fuhua Tongda Agro-chemical Technology Co., Ltd.	111.37%	126.64%	1,001	9	7
3	Henan HDF Chemical Co., Ltd.	94.66%	108.73%	147	70	28
4	Sichuan Hebang Biotechnology Co., Ltd.	74.62%	87.24%	812	11	7
5	Hubei Xingfa Chemicals Group Co., Ltd.	72.05%	84.49%	1,168	7	2
6	Lianyungang Liben Crop Science and Technology Co., Ltd.	61.75%	73.44%	1,176	6	1

No.	Enterprise	YoY Change		Pesticide revenue in 2021, million USD	Ranking in 2022	Ranking change
		based on RMB	Pesticide revenue in 2021, million USD			
7	Lianhe Chemical Technology Co., Ltd.	57.82%	69.23%	662	14	9
8	Zhejiang Jinfanda Biochemical Co., Ltd.	53.24%	64.31%	212	55	12

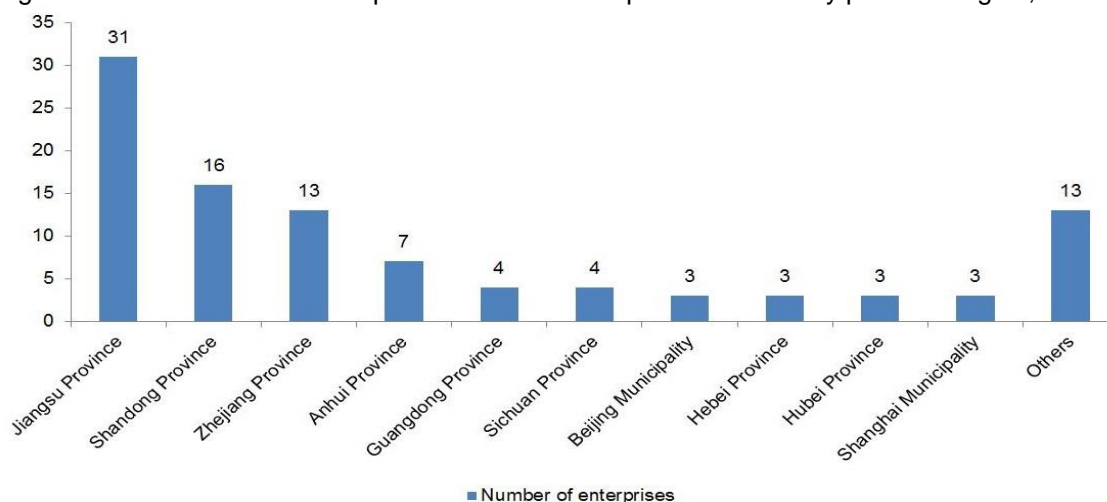
Source: CCPIA & CCM

3.2 Geographical distribution of 2022 China Top 100 Pesticide Enterprises

Analysis of the geographical distribution of 2022 China Top 100 pesticide enterprises shows that the top three provinces ranked by pesticide revenue in 2021 are Jiangsu Province, Hubei Province and Shandong Province. The pesticide revenue of the three provinces accounts for 56.22% of the total.

In the 2022 list, the total pesticide revenue in Jiangsu Province in 2021 was USD11.06 billion (RMB71.49 billion), accounting for 28.10% of the total. Jiangsu Province has 31 enterprises in the 2022 top 100 list, such number up by 3 from the 2021 listed ones. Hubei Province, ranked in pesticide revenue of USD5.75 billion (RMB37.15 billion) and ranks the second here, with just three enterprises in the list, including ADAMA Ltd. Shandong Province holds the third, with 16 enterprises listed totalling pesticide revenue of USD5.33 billion (RMB34.41 billion).

Figure 3.2-1 Number of 2022 Top 100 Pesticide Enterprises in China by province/region, 2021



Source: CCPIA & CCM

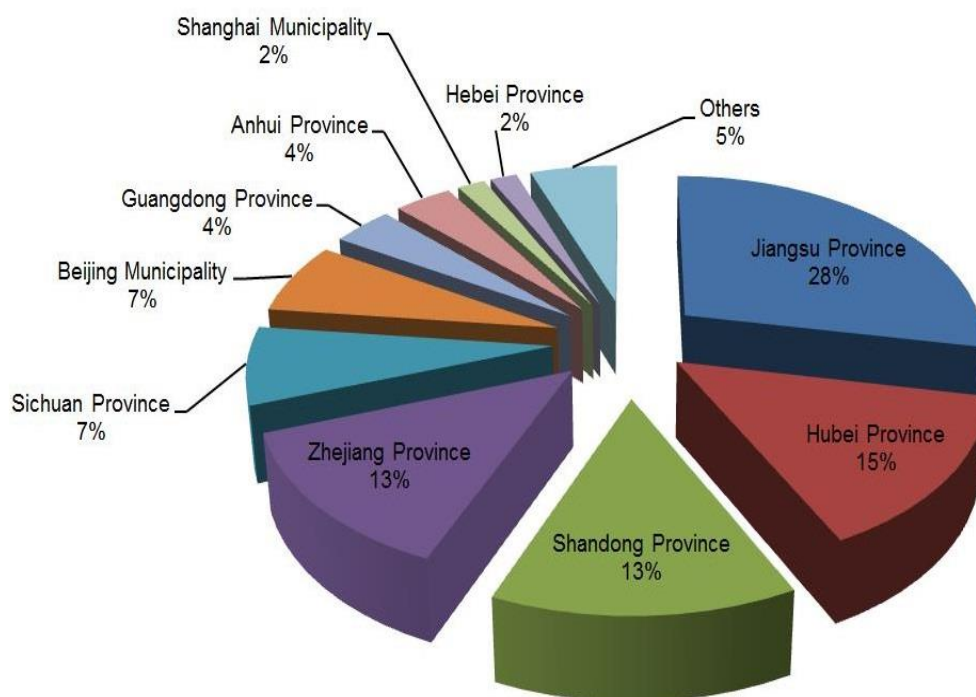
Table 3.2-1 Revenue of 2022 China Top 100 Pesticide Enterprises by province/region, 2021

No.	Province/Region	Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD
1	Jiangsu Province	71,489	11,064
2	Hubei Province	37,145	5,749
3	Shandong Province	34,405	5,325
4	Zhejiang Province	33,811	5,233
5	Sichuan Province	18,667	2,889
6	Beijing Municipality	17,337	2,683

No.	Province/Region	Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD
7	Guangdong Province	9,696	1,501
8	Anhui Province	9,189	1,422
9	Shanghai Municipality	4,448	688
10	Hebei Province	4,287	663
11	Guangxi Zhuang Autonomous Region	2,398	371
12	Jiangxi Province	2,134	330
13	Inner Mongolia Autonomous Region	1,958	303
14	Hunan Province	1,825	282
15	Shaanxi Province	1,386	215
16	Jilin Province	1,207	187
17	Henan Province	948	147
18	Chongqing Municipality	928	144
19	Ningxia Hui Autonomous Region	639	99
20	Hainan Province	517	80
Total		254,414	39,374

Source: CCPIA & CCM

Figure 3.2-2 Share of pesticide revenue of 2022 China Top 100 Pesticide Enterprises by province/region, 2021



Source: CCPIA & CCM

4 2022 Top Pesticide Formulation Enterprises in China

4.1 China's Top 100 Pesticide Formulation Enterprises

Taking advantages of industry transformation and upgrading of pesticide formulation business promoted in China last year, the 2022 top 100 China formulation enterprises achieved total revenue of USD7.10 billion (RMB45.53 billion), a yearly increase of 17.31%.

The average revenue of the top 100 enterprises from formulation business was USD70 million (RMB455 million) in 2021, 18% less than what amount the top 100 pesticide enterprises earned (=RMB2,544 million on average) in the same year. The overall sales from formulations have increased significantly last year, though there are only 8 at the higher range, each with sales of above USD155 million (RMB1 billion). The aggregate sales of the top 10 formulation enterprises approached USD2.67 billion (RMB17.27 billion), accounting for 37.93% of the total, with an increase of 20.49% over the previous year. The sales of the top 27 stay above USD78 million (RMB500 million). The threshold for entry to the 2022 formulation list reaches USD17 million (RMB110 million), up by 8.91% year-on-year.

Specifically, Shenzhen Noposion Agrochemicals Co., Ltd. (Shenzhen Noposion) catches the first place again, with sales of USD503 million (RMB3.25 billion) in 2021. Guangdong Zhongxun Agri-science Corporation came second, with sales of USD492 million (RMB3.18 billion). The 3rd, 4th and 5th places are claimed by Jiangxi Zhengbang Crop Protection Co., Ltd., Guangxi Tianyuan Biochemistry Co., Ltd. and Jiangsu Rotam Chemistry Co., Ltd. The top 5 remain the same as 2021.

Table 4.1-1 List of 2022 China Top 100 Pesticide Formulation Enterprises

No.	Enterprise	Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD	YoY Change		Ranking in 2021	Ranking change
				based on RMB	Ranking in 2021		
1	Shenzhen Noposion Agrochemicals Co., Ltd.	3,249	503	16.70%	25.14%	1	0
2	Guangdong Zhongxun Agri-science Corporation	3,176	492	46.97%	57.59%	2	0
3	Jiangxi Zhengbang Crop Protection Co., Ltd.	2,134	330	21.25%	30.01%	3	0
4	Guangxi Tianyuan Biochemistry Co., Ltd.	1,619	251	6.09%	13.76%	4	0
5	Jiangsu Rotam Chemistry Co., Ltd.	1,493	231	18.49%	27.05%	5	0
6	BASF Crop Protection (Jiangsu) Co., Ltd.	1,296	201	22.50%	31.35%	7	1
7	Jiangsu Essence Agrochemicals Co., Ltd.	1,257	195	19.15%	27.76%	8	1
8	Qiaochang Modern Agriculture Co., Ltd.	1,166	180	6.29%	13.97%	6	-2
9	Sichuan Guoguang Agrochemical Co., Ltd.	949	147	17.31%	25.78%	13	4
10	Chongqing Shurong Crop Science Co., Ltd.	928	144	13.03%	21.20%	11	1
11	FMC (Suzhou) Crop Care Co., Ltd.	925	143	-3.44%	3.53%	9	-2

No.	Enterprise	Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD	YoY Change		Ranking in 2021	Ranking change
				based on RMB	Ranking in 2021		
12	Shandong Kesai Agrochem Co., Ltd.	920	142	13.44%	21.64%	12	0
13	Zhejiang Welldone Chemicals Co., Ltd.	908	141	6.70%	14.41%	10	-3
14	Pilar (Shanghai) Biotech Co., Ltd.	845	131	18.02%	26.54%	15	1
15	Shaanxi Meibang Pharmaceutical Group Co., Ltd.	842	130	/	/	/	/
16	Guangxi Yiduoshou Biotechnology Co., Ltd.	779	121	5.56%	13.18%	14	-2
17	Anhui Zhongbang Biological Engineering Co., Ltd.	735	114	11.87%	19.96%	16	-1
18	Jinan Tianbang Chemical Co., Ltd.	683	106	4.92%	12.50%	17	-1
19	Anhui Yinong Chemical Co., Ltd.	627	97	11.57%	19.63%	18	-1
20	Sunong (Guangde) Biotechnology Co., Ltd.	558	86	173.53%	193.29%	53	33
21	Shaanxi Sunger Road Bioscience Co., Ltd.	544	84	8.15%	15.97%	21	0
22	Jilin Bada Pesticide Co., Ltd.	532	82	1.14%	8.45%	19	-3
23	Yixing Xingnong Chemical Products Co., Ltd.	528	82	17.07%	25.53%	24	1
24	Hainan Zhengye Zhongnong High-tech Stock Co., Ltd.	517	80	14.89%	23.19%	25	1
25	Shandong Vicome Greenland Chemical Co., Ltd.	515	80	0.59%	7.85%	20	-5
26	Syngenta (Suzhou) Crop Protection Co., Ltd.	511	79	3.44%	10.92%	22	-4
27	Sinon Chemical (China) Co., Ltd.	504	78	12.25%	20.36%	26	-1
28	Qingdao Jin'er Agriculture Chemical Research and Development Co., Ltd.	495	77	41.43%	51.65%	33	5
29	Jixian Qingfeng Tianying Biochemical Co., Ltd.	470	73	56.67%	67.99%	38	9
30	Jiangmen Plant Protection Co., Ltd.	458	71	0.66%	7.93%	23	-7
31	Anhui Huilong Group Youngsun Pesticides Co., Ltd.	456	71	18.44%	27.00%	29	-2
32	Yixing Yizhou Chemical Products Co., Ltd.	454	70	8.87%	16.74%	27	-5

No.	Enterprise	Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD	YoY Change		Ranking in 2021	Ranking change
				based on RMB	Ranking in 2021		
33	Shanghai Yuelian Biological Technology Co., Ltd.	422	65	13.44%	21.64%	30	-3
34	Jinan Zhongke Green Biotechnology Co., Ltd.	420	65	6.33%	14.01%	28	-6
35	Hebei Zhongtian Bangzheng Biological Technology Co., Ltd.	402	62	9.54%	17.45%	31	-4
36	Hunan Xinchangshan Agricultural Development Co., Ltd.	384	59	20.38%	29.07%	35	-1
37	Shandong Zhongxin Kenong Bio-technology Co., Ltd.	369	57	37.17%	47.09%	41	4
38	Xiamen Yizhi Biotechnology Co., Ltd.	357	55	125.95%	142.28%	71	33
39	Tianjin Huayu Pesticide Co., Ltd.	356	55	16.72%	25.16%	37	-2
40	Zhejiang Sega Science and Technology Co., Ltd.	352	54	8.64%	16.49%	34	-6
41	Hebei Zhongbao Green Agricultural Science and Technology Co., Ltd.	351	54	12.86%	21.02%	36	-5
42	Zhejiang Tianfeng Biological Science Co., Ltd.	338	52	/	/	/	/
43	Jiangxi Windeal Biotechnology Co., Ltd.	330	51	26.44%	35.57%	42	-1
44	Shanghai Huijiang Biochemical Co., Ltd.	308	48	5.48%	13.10%	39	-5
45	Shandong Runyang Chemical Co., Ltd.	300	46	17.65%	26.15%	44	-1
46	Hebei Rongwei Biological Pharmaceutical Co., Ltd.	270	42	12.03%	20.13%	45	-1
47	Shandong Lvbang Crop Science Co., Ltd.	266	41	23.15%	32.05%	49	2
47	Shandong Zouping Pesticides Co., Ltd.	266	41	45.36%	55.86%	61	14
49	Jiangxi Buffett Chemical Co., Ltd.	258	40	56.36%	67.66%	65	16
50	Yancheng Limin Chemical Co., Ltd.	247	38	/	/	/	/
50	Shaanxi Xidahuate Co., Ltd.	247	38	14.35%	22.61%	50	0
52	Nantong Lihua Agrochemical Co., Ltd.	245	38	63.33%	75.14%	77	25
53	Jiangsu Dongbao Agrochemical Co., Ltd.	231	36	19.69%	28.34%	58	5

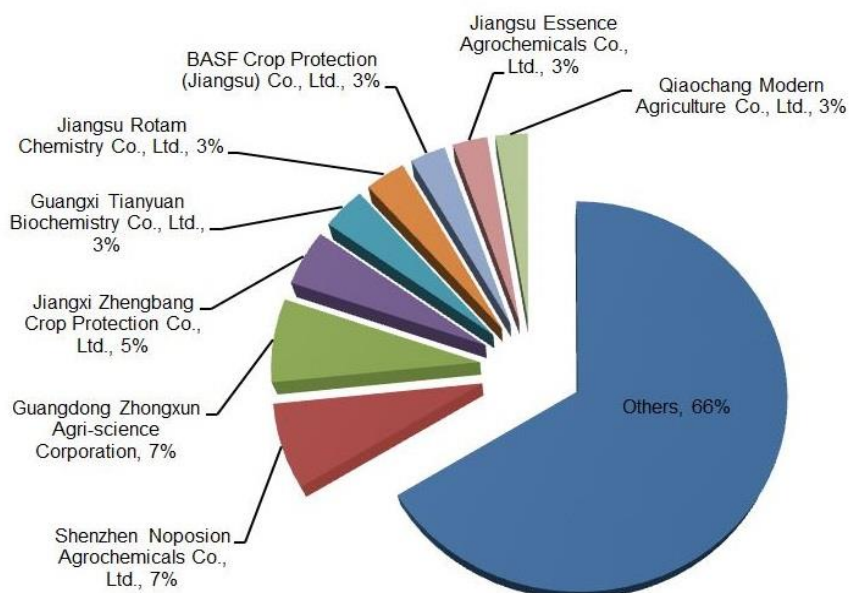
No.	Enterprise	Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD	YoY Change		Ranking in 2021	Ranking change
				based on RMB	Ranking in 2021		
53	Hebei Nongxin Agrochemical Group Co., Ltd.	231	36	8.96%	16.84%	51	-2
55	Tianjin Highpoint Plant Protection Co., Ltd.	226	35	0.89%	8.18%	48	-7
56	Shanghai HKC Ltd.	225	35	7.66%	15.43%	52	-4
57	Shaanxi Kanghelifeng Biotechnology Pesticide Co., Ltd.	220	34	23.60%	32.53%	62	5
58	Anhui Chaonong High-tech Chemical Co., Ltd.	218	34	105.66%	120.52%	94	36
59	Shanghai Shengnong Pesticide Co., Ltd.	215	33	9.69%	17.62%	56	-3
60	Dezhou Xianglong Biochemical Co., Ltd.	214	33	30.49%	39.92%	66	6
60	Tongzhou Zhengda Pesticides & Chemicals Co., Ltd.	214	33	/	/	/	/
62	Jinan Yinong Chemical Co., Ltd.	210	33	17.98%	26.50%	63	1
63	Zhejiang Jishun Plant Technology Co., Ltd.	200	31	12.99%	21.16%	64	1
63	Chengdu Newsun Crop Science Co., Ltd.	200	31	/	/	/	/
65	Hangzhou Bonghua Biological Technology Co. Ltd.	198	31	/	/	/	/
66	Guangdong ZhenGe Biotechnology Co., Ltd.	195	30	4.84%	12.41%	59	-7
67	Shandong Shengpeng Technology Co., Ltd.	187	29	23.03%	31.92%	72	5
68	Anhui Meilan Agricultural Development Co., Ltd.	184	28	14.29%	22.54%	70	2
69	Huizhou Yinnong Technology Co., Ltd.	181	28	19.87%	28.53%	74	5
70	Anhui Shengdan Biochemical Co., Ltd.	180	28	11.11%	19.14%	69	-1
70	Henan Changjian Biotechnology Co., Ltd.	180	28	25.87%	34.97%	79	9
72	Hefei Henong Pesticide Co., Ltd.	179	28	10.49%	18.48%	67	-5
73	Jiangsu State Farms Biochemistry Co., Ltd.	178	28	17.88%	26.40%	75	2
74	Shandong Changqing Pesticide Factory Co., Ltd.	177	27	17.22%	25.69%	76	2

No.	Enterprise	Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD	YoY Change		Ranking in 2021	Ranking change
				based on RMB	Ranking in 2021		
75	Lanxi Jinghang Biotechnology Co., Ltd.	171	26	23.91%	32.87%	81	6
76	Zhejiang Tianyi Biotechnology Co., Ltd.	167	26	9.87%	17.81%	73	-3
77	Anhui Lanmpin Agricultural Development Co., Ltd.	164	25	-17.17%	-11.19%	55	-22
78	Anyang Ruipu Agrochemical Co., Ltd.	160	25	-1.23%	5.90%	68	-10
79	Anhui Shengfeng Biochemical Co., Ltd.	155	24	10.71%	18.71%	80	1
80	Tianjin Boke Baisheng Technology Co., Ltd.	154	24	/	/	/	/
81	Anhui Richen Plant Protection Engineering Co., Ltd.	151	23	/	/	/	/
82	Shandong Yannong Biotechnology Co., Ltd.	149	23	41.90%	52.16%	95	13
83	Shandong Danong Pharmaceutical Co., Ltd.	148	23	2.07%	9.44%	78	-5
84	Hengshui Hengwei Chemical Co., Ltd.	147	23	9.70%	17.63%	82	-2
85	Shaanxi Xiannong Biology Science Co., Ltd.	142	22	24.56%	33.56%	91	6
86	Jiangmen Daguangming Agrochemical Xinhui Co., Ltd.	137	21	/	/	/	/
87	Hebei Boken Agriculture Co., Ltd.	136	21	8.80%	16.66%	88	1
88	Zhejiang Longyou Eastern Anasac Crop Science Co., Ltd.	130	20	13.04%	21.21%	90	2
89	Xianglin Mefront Biotechnology (Huai'an) Co., Ltd.	125	19	/	/	/	/
89	Nanjing BaoFeng Pesticide Co., Ltd.	125	19	/	/	/	/
91	Liuzhou Huinong Chemical Co., Ltd.	124	19	9.73%	17.66%	92	1
92	Nanjing Ronch Chemical Co., Ltd.	121	19	-5.47%	1.36%	86	-6
92	Zibo Meitian Pesticide Co., Ltd.	121	19	-5.47%	1.36%	87	-5
94	Shanxi Qixing Pesticide Co., Ltd.	120	19	-38.78%	-34.35%	57	-37
95	Liyang Zhongnan Chemical Industry Co., Ltd.	115	18	/	/	/	/

No.	Enterprise	Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD	YoY Change		Ranking in 2021	Ranking change
				based on RMB	Ranking in 2021		
96	Jiangsu Futian Agrochemical Co., Ltd.	114	18	/	/	/	/
97	Zhenjiang Pioneer Cropsience Co., Ltd.	113	17	-44.06%	-40.02%	54	-43
98	Shanghai Shenglian Chemical Co., Ltd.	112	17	/	/	/	/
99	Yangzhou Suling Agrochemicals Co., Ltd.	110	17	8.91%	16.78%	99	0
99	Nanjing NAU Pesticide Technology Co., Ltd.	110	17	/	/	/	/

Source: CCPIA & CCM

Figure 4.1-1 Shares of major enterprises of the 2022 China Top 100 Pesticide Formulation Enterprises



Source: CCM

As to annual growth, 12 formulation enterprises reported 30%+ increases of sales; while 7 saw sales decline—this number is down by 3 compared with the list for one year before.

Table 4.1-2 List of the formulation enterprises with annual growth rate of revenue exceeding 30%, 2022

No.	Enterprise	YoY Change		Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD	Ranking in 2022	Ranking change
		based on RMB	Pesticide revenue in 2021, million RMB				
1	Sunong (Guangde) Biotechnology Co., Ltd.	173.53%	193.29%	558	86	20	33
2	Xiamen Yizhi Biotechnology Co., Ltd.	125.95%	142.28%	357	55	38	33
3	Anhui Chaonong High-tech Chemical Co., Ltd.	105.66%	120.52%	218	34	58	36

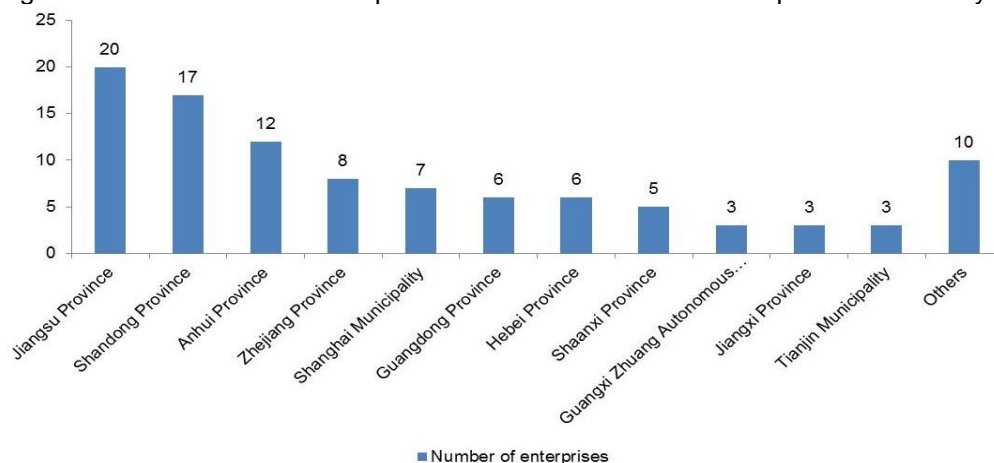
No.	Enterprise	YoY Change		Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD	Ranking in 2022	Ranking change
		based on RMB	Pesticide revenue in 2021, million RMB				
4	Nantong Lihua Agrochemical Co., Ltd.	63.33%	75.14%	245	38	52	25
5	Jixian Qingfeng Tianying Biochemical Co., Ltd.	56.67%	67.99%	470	73	29	9
6	Jiangxi Buffett Chemical Co., Ltd.	56.36%	67.66%	258	40	49	16
7	Guangdong Zhongxun Agri-science Corporation	46.97%	57.59%	3,176	492	2	0
8	Shandong Zouping Pesticides Co., Ltd.	45.36%	55.86%	266	41	47	14
9	Shandong Yannong Biotechnology Co., Ltd.	41.90%	52.16%	149	23	82	13
10	Qingdao Jiner Agrochemicals (Group) R&D Co., Ltd.	41.43%	51.65%	495	77	28	5
11	Shandong Zhongxin Kenong Bio-Technology Co., Ltd.	37.17%	47.09%	369	57	37	4
12	Dezhou Xianglong Biochemical Co., Ltd.	30.49%	39.92%	214	33	60	6

Source: CCPIA & CCM

4.2 Geographical distribution of 2022 China Top 100 Pesticide Formulation Enterprises

Through the analysis of the geographical distribution of 2022 China Top 100 pesticide formulation enterprises, it is known to us that the sales of Jiangsu Province was USD1.32 billion (RMB8.51 billion), 18.70% of the total, ranking the first. Jiangsu Province has 20 companies entering the list of Top 100 pesticide formulation enterprises, 4 more over last list. Although Shandong Province had 17 companies into the list, their combined revenue reached USD1.02 billion (RMB6.61 billion), 16.25% of the total, ranking the third. Guangdong Province ranked the second, with only 6 companies on the list and the revenue of USD1.15 billion (RMB7.40 billion). It's worth noting that Shenzhen Noposion Agrochemicals Co., Ltd. and Guangdong Zhongxun Agri-science Corporation ranked first and second separately in the list, both of them are from Guangdong Province.

Figure 4.2-1 Number of 2022 Top 100 Pesticide Formulation Enterprises in China by province/region, 2021



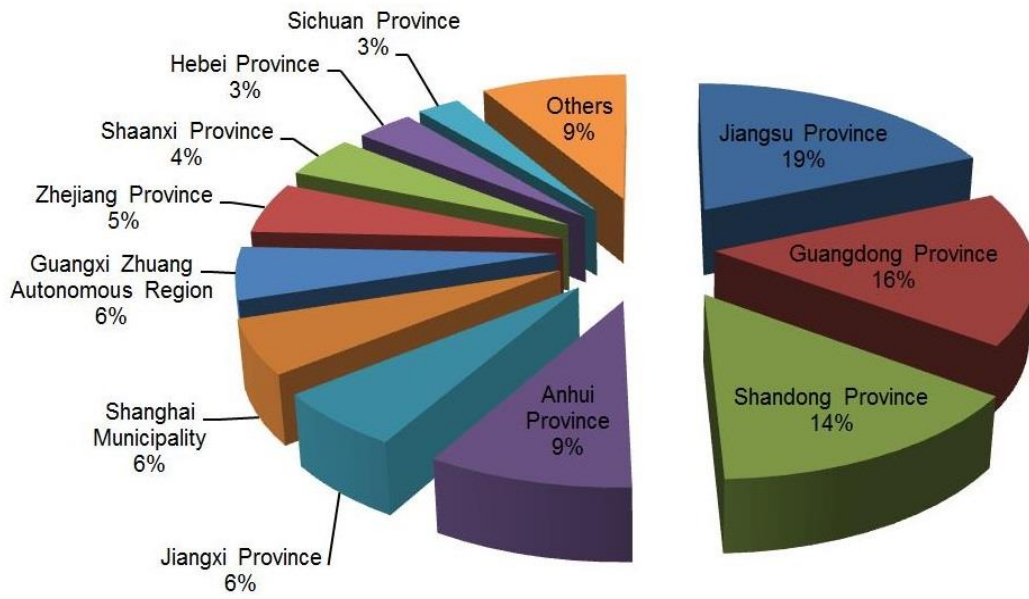
Source: CCPIA & CCM

Table 4.2-1 Revenue of 2022 China Top 100 Pesticide Formulation Enterprises by province/region, 2021

No.	Province/Region	Pesticide revenue in 2021, million RMB	Pesticide revenue in 2021, million USD
1	Jiangsu Province	8,512	1,317
2	Guangdong Province	7,396	1,145
3	Shandong Province	6,606	1,022
4	Anhui Province	4,077	631
5	Jiangxi Province	2,722	421
6	Shanghai Municipality	2,631	407
7	Guangxi Zhuang Autonomous Region	2,522	390
8	Zhejiang Province	2,464	381
9	Shaanxi Province	1,995	309
10	Hebei Province	1,537	238
11	Sichuan Province	1,149	178
12	Chongqing Municipality	928	144
13	Tianjin Municipality	736	114
14	Jilin Province	532	82
15	Hainan Province	517	80
16	Hunan Province	384	59
17	Fujian Province	357	55
18	Henan Province	340	53
19	Shanxi Province	120	19
Total		45,525	7,046

Source: CCPIA & CCM

Figure 4.2-2 Share of revenue of 2022 China Top 100 Pesticide Formulation Enterprises by province/region, 2021



Source: CCPIA & CCM

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