

Top 100 Pesticide Enterprises in China

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Executive summary

In 2020, with comprehensively strengthened pesticide management, China's pesticide industry continued the shift from high-speed development to environmental friendly and high-quality development. Despite huge blow of the COVID-19 outbreak in Q1 2020, the pesticide industry still quickly overcame difficulties and maintained a steady and sound development. The transformation and upgrading has achieved remarkable results in the industry, the process of merger and reorganization has been accelerated, and the industrial concentration has been significantly improved. Pesticide enterprises have made new progress in scientific and technological innovation, and continuously launched new varieties independently developed. The competitiveness of China's pesticide products has been continuously enhanced, and the export proportion of technical and formulation has been improved.

List of 2021 China Top 100 pesticide enterprises, 2021 China Top 100 pesticide formulation enterprises and popular pesticide brands (by sales) in China in 2020, selected by the CCPIA, were disclosed in the 8th Analysis Meeting of Economic Operation in Pesticide Industry on 13 May, 2021. In general, both total revenue and the entry threshold of top 100 pesticide enterprises in 2020 have increased over 2019. Moreover, the sales of the top 10 accounted for about 40% of the total, which means industry concentration increased significantly. Compared with the technical enterprises, the scale of formulation enterprises was small on average, but their development was good overall. In the list of popular pesticide brands, the pesticide varieties with high efficiency, low toxicity and low residue increased, and the proportion of environmentally friendly formulation products rose.

With intensifying competition and rigorous enforcement of environmental protection measures, China's pesticide industry has entered a new round of integration, which also puts forward higher requirements on domestic pesticide enterprises. These enterprises have been trying to improve themselves to adapt to the new environment, as they are aware that only by continuously improving product quality, services and creativity, and by enhancing scientific and technological strength can they maintain advantages in pesticide industry.

The USD/CNY exchange rate in this newsletter is USD1.00=RMB6.4660 on 1 Aug. 2021 sourced from the People's Bank of China.

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 Abbreviations and full names

Abbreviation	Full Name
CCPIA	China Crop Protection Industry Association
SG	Water soluble granule
SP	Water soluble powder
SC	Suspension concentrate
WG	Water dispersible granule
EC	Emulsifiable concentrate
WP	Wettable powder
AS	Aqueous solution
OD	Oil dispersion
FS	Flowable concentrate for seed treatment
SL	Soluble concentrate
TK	Technical concentrate
ME	Micro-emulsion
FSC	Flowable concentrate for seed coating

1 Review of China's pesticide industry in 2020

1.1 General situation

In 2020, the outbreak of COVID-19 caused a huge impact on global economic development. Facing various risks and complex international environment, pesticide industry actively overcame difficulties by enhancing innovation ability, speeding up market expansion, and seeking new markets to expand exports.

In 2020, the output of pesticides in China decreased first but later increased. The pesticide industry attained steady growth of economic benefits with significantly increasing output value and profit. As domestic epidemic situation was controlled, pesticide production proceeded in an orderly manner and the output increased steadily, ensuring effective supply to satisfy domestic agricultural demand. In terms of export, thanks to favorable policies rolled out by the government, flow of pesticide export was smooth; the annual export volume & value reached a new high in recent three years.

In general, main economic indicators of the pesticide industry still maintained growth, even though some enterprises failed to operate normally due to the aftermath of COVID-19.

With the supply-side structural reform and enterprises' transformation and upgrading, concentration ratio of China's pesticide industry continued to increase. In 2020, there were 693 enterprises above designated size involved in pesticide business in China, 26 less than the number in 2019 and 293 less than 986 in 2010. Although the number decreased, the total assets and revenues from main business have increased steadily, and the economic benefits they generated were remarkable. According to data from the National Bureau of Statistics, in 2020, the assets of the 693 pesticide enterprises totaled USD43.55 billion (RMB281.57 billion), with a year-on-year increase of 5.90%; the main business revenue together reached USD35.27 billion (RMB228.06 billion), a year-on-year increase of 6.10%; the total profit was USD2.95 billion (RMB19.06 billion), up by 0.50% year on year; the total profit of chemical pesticide technical increased by 1.80% year on year, while that of biochemical and microbial pesticides decreased by 5.5% over 2019.

It is worth noting that due to the increased cost of raw materials under the influence of the global epidemic and China's rigorous enforcement of environmental protection measures, production cost in pesticide enterprises went up. Although product price increased accordingly, profit margins were still squeezed, which slowed down the growth of total profit of these enterprises above designated size.

Table 1.1-1 Major economic indicators of pesticide enterprises above designated size in China, 2020, million USD

Item	Number of companies	Total assets		Revenue		Total profit	
		2020	YoY change	2020	YoY change	2020	YoY change
Pesticide industry	693	43,546	5.90%	35,270	6.10%	2,948	0.50%
- Chemical pesticide	564	38,164	5.30%	30,799	6.10%	2,431	1.80%
- Biochemical and microbial pesticide	129	5,382	10.20%	4,471	6.00%	517	-5.50%

Source: National Bureau of Statistics

Since 2015, with the implementation of the policy "achieving zero growth in the use of chemical fertilizers and pesticides by 2020", as well as the phasing out of highly toxic organophosphorus pesticides (insecticides in majority), the total output of pesticides has decreased steadily. Data from the National Bureau of Statistics show that in 2020, the output of chemical pesticide technical (converted into 100% AI, hereinafter) of enterprises above designated size in the pesticide industry was 2.15 million tonnes, with a year-on-year decrease of 1.06%. Thereinto, the output of herbicide, insecticide and fungicide was 46.74%, 14.06% and 5.35% of the total respectively.

Table 1.1-2 Output (converted into 100% AI) of chemical pesticide technical in China in 2020, '000 tonnes

Category	2020	2019	YoY change
Herbicide	1,004	948	5.91%
Insecticide	302	326	-7.36%
Fungicide	115	148	-22.30%
Others	727	749	-2.94%
Total	2,148	2,171	-1.06%

Source: National Bureau of Statistics

As to pesticide production in different provinces, the top three in pesticide technical output in 2020 are Jiangsu Province, Shandong Province and Sichuan Province, the trio accounting for 53.21% of the domestic total, according to the data from the National Bureau of Statistics.

Jiangsu Province, as the largest pesticide producer in China, saw its pesticide technical output decrease by 4.9% year on year, as relocation, shutdown & rectification in chemical enterprises have accelerated, which is prompted by environmental protection, work safety improvement and industrial structure adjustment in chemical parks. While Shandong Province and Anhui Province had their pesticide technical output rose by 26.50% and 65.20% year on year respectively, driven by continuous and effective release of production capacity and increasing demand for some products. Besides, Hunan Province, Gansu Province and Ningxia Hui Autonomous Region also experience fast growth in pesticide technical output, mainly due to effective release of new production capacity. In contrast, owing to the shutdown caused by floods in Q3 2020, Sichuan Province witnessed a 26.50% slump in its pesticide technical output. Hubei Province, Hebei Province, Guangxi Zhuang Autonomous Region and Guangdong Province also experienced output drops, down by 15.10%, 13.90%, 22.20% and 45.10% respectively.

Table 1.1-3 Output of pesticide technical in China by region in 2020, '000 tonnes

Region	Output (converted into 100% AI)	YoY change
Jiangsu Province	582	-4.90%
Shandong Province	285	26.50%
Sichuan Province	276	-26.50%
Zhejiang Province	192	3.40%
Anhui Province	161	65.20%
Hubei Province	149	-15.10%
Hunan Province	130	30.40%
Henan Province	82	1.40%
Inner Mongolia Autonomous Region	43	1.70%
Gansu Province	37	130.20%
Ningxia Hui Autonomous Region	36	33.60%
Hebei Province	36	-13.90%
Guangxi Zhuang Autonomous Region	31	-22.20%
Guangdong Province	20	-45.10%
Others	88	/
Total	2,148	-4.70%

Source: National Bureau of Statistics

In 2020, the price of pesticide technical in China was relatively low, with small fluctuations. Since 2019, affected by multiple factors such as adverse weather conditions in some regions and the Sino-US trade war, the global pesticide price had continued declining. Based on this situation, the China Agrochemical Price Index (CAPI) decreased on the whole.

In Q1 2020, production in domestic pesticide enterprises were restricted due to COVID-19 pandemic. Disruption to the supply chain, especially the supply of raw materials greatly impacted normal operation of pesticide industry. In Q3, domestic market operated stably, but overseas pandemic situation was severe, which caused most of the overseas trade to be transformed into domestic sales. China's domestic market competition intensified and the price of pesticide technical decreased. In Q4, the tight supply of raw materials led to rising cost price, and thus the pesticide price showed an upward trend.

- ✓ In Q1, limited operation of pesticides, disrupted logistics and insufficient supply led to a price rise. Pesticide price index rose slightly in Feb. But in March, production resumption process accelerated and logistics gradually recovered, so the price index decreased slightly.
- ✓ In Q2, with increasing overseas demand for pesticides, export volume went up significantly in the short term. In April, the pesticide technical price index increased to 90.27, the highest in 2020.
- ✓ In Q3, due to the direct impact of epidemic situation overseas, the price index decreased to 84.65 in Sept., the lowest in 2020, down 6.23% from April.
- ✓ In Q4, the supply of pesticide raw materials was tight, and the price index rose. In Dec., the price index rebounded to 86.84.

Specifically:

- ✓ Herbicide technical price index kept stable in H1; it increased steadily in H2, from 66.94 in July to 74.62 in Dec., with an increase of 11.47%.
- ✓ Insecticide technical price index declined on the whole, from 116.56 in Jan. to 99.11 in Nov. It rebounded above 100 in Dec.
- ✓ Fungicide technical price index peaked at 142.72 in April. Since April, it declined continuously, reaching at 114.08 in Dec., down 20.07% from the peak.

Table 1.1-4 China Agrochemical Price Index (CAPI), Jan. 2020–Dec. 2020

Month	Pesticide	Herbicide	Insecticide	Fungicide
Jan.	89.14	67.24	116.56	137.78
Feb.	89.83	67.00	115.16	144.20
March	89.31	66.46	116.00	138.36
April	90.27	67.69	114.59	142.72
May	88.67	67.81	111.68	135.91
June	86.31	66.54	110.49	129.97
July	85.53	66.94	106.20	127.19
Aug.	84.80	67.82	105.38	119.47
Sept.	84.65	69.62	101.45	117.85
Oct.	84.94	70.90	99.88	117.25
Nov.	86.06	73.49	99.11	115.46
Dec.	86.84	74.62	100.20	114.08

Source: China Crop Protection Industry Association (CCPIA)

1.2 Imports and exports

In 2020, the global epidemic situation was severe, but the situation in China was effectively controlled. Since Q2, domestic enterprises resumed production in an orderly manner, which helped alleviate negative influences brought up by adverse factors such as the global economic environment deterioration in early 2020, and provide an opportunity for expanding China's pesticide import and export—trade rebounded sharply. Statistics from the National Bureau of Statistics show that the total import and export trade value of pesticides in China in 2020 was USD8.54 billion, up by 51.80% year on year. The trade surplus reached USD6.71 billion, with a yearly increase of 63.80%. The total import & export value and trade surplus of herbicides, insecticides and fungicides also increased in varying degrees.

Table 1.2-1 Total pesticide import & export and trade surplus value, 2020, million USD

Category	Total value of imports and exports	YoY change	Trade surplus	YoY change
Pesticides	8,535	51.80%	6,714	63.80%
- Herbicides	3,147	11.80%	2,991	14.40%
- Insecticides	1,726	11.50%	1,323	9.00%
- Fungicides	911	6.30%	373	32.40%

Source: CCM & National Bureau of Statistics

As operating rates of overseas pesticide enterprises were damaged by COVID-19, strong demand for China's pesticides was witnessed, and the export volume & value went up significantly in 2020. According to the data from the National Bureau of Statistics, China exported 2.51 million tonnes of pesticides, with a yearly increase of 71.20%; the export value was USD7.62 billion, up by 56.90%.

Table 1.2-2 Export volume and value of pesticides in China, 2020

Category	Export volume (converted into 100% AI), '000 tonne	YoY change	Export value, million USD	YoY change
Pesticides	2,514	71.20%	7,624	56.90%
- Herbicides	1,236	24.60%	3,069	13.00%
- Insecticides	365	19.60%	1,525	10.40%
- Fungicides	116	21.40%	642	12.80%

Source: CCM & National Bureau of Statistics

In 2020, China's overall import volume & value of pesticides maintained a stable growth, with a year-on-year increase of 22.60% and 19.60% respectively. Insecticides, in particular, saw large year-on-year increase in import value. However, both herbicides and fungicides had decreases in import volume & value.

Table 1.2-3 Import volume and value of pesticides in China, 2020

Category	Import volume (converted into 100% AI), '000 tonne	YoY change	Import value, million USD	YoY change
Pesticides	110	22.60%	911	19.60%
- Herbicides	14	-3.70%	78	-22.00%
- Insecticides	11	5.30%	201	20.40%
- Fungicides	27	-2.20%	269	-6.50%

Source: CCM & National Bureau of Statistics

2 Top pesticide enterprises in China

2.1 2021 China Top 100 pesticide enterprises

In 2020, the pesticide industry was in an unfavorable situation, facing disadvantages such as the COVID-19 pandemic and ensuing trade risks, agricultural production reduction by bad weather, and disruptions to the pesticide supply chain. At the same time, with implementation of new regulations and policies concerning pesticide management, pesticide industry has entered a high-quality development stage. Pesticide enterprises paid more attention to environmental protection and work safety, energy consumption reduction and product innovation. Small enterprises withdrew from the market, and the industry concentration increased significantly. For example, Jiangsu Province have stepped up industrial regulation, and pesticide production capacity has been gradually transferred to the central and western China. China's pesticide utilization rate improved continuously. It was obvious that high-efficient and low-toxic pesticides got on the fast lane of development.

Though faced with the severe market situation, 72 companies achieved an increase in sales revenue over 2019 and most of these enterprises had significant growth in sales. Statistics show that the total sales of the top 100 enterprises on the list reached USD32.25 billion (RMB208.53 billion), with a yearly increase of 13.57% (the figure of the previous year was 6.87%). In 2021, the entry threshold of top 100 enterprises rose to USD70 million (RMB451 million), up 13.03% from the previous USD57 million (RMB399 million).

Among the listed companies, the top ADAMA Ltd. had sales of more than USD3.87 billion (RMB25 billion). Following its lead, other 5 enterprises had sales over USD770 million (RMB5 billion), two more than last year. 58 enterprises achieved sales within the range of USD155 million to USD770 million (RMB1 billion–RMB5 billion).

The top 10 enterprises raked in USD12.27 billion (RMB79.34 billion) in pesticide business, up by 12.95% over the previous year, accounting for 38.05% of the total sales on the list. This shows that the market concentration of China's pesticide industry is relatively high, and the leading enterprises have played a significant role.

Specifically, the top three in 2021 remained the same compared with 2020. ADAMA Ltd. is far ahead of its competitors. Jiangsu Yangnong Chemical Co., Ltd. ranked the second with revenue of USD1.51 billion (RMB9.75 billion), a year-on-year increase of 12.91%. The No.3 went to Shandong Weifang Rainbow Chemical Co., Ltd., with sales of USD1.12 billion (RMB7.24 billion) in 2020. It is worth mentioning that Sino-Agri Leading Biosciences Co., Ltd. had revenue of USD1.02 billion (RMB6.61 billion), with a yearly increase of 491.85%, soaring to No. 4 from No. 55 in 2019. This is mainly due to the company's efforts to stabilise production and to increase pesticide sale volume greatly.

Compared with last year's list of the Top 100 pesticide enterprises, here come 8 new entrants this year. In terms of annual growth in revenue, 9 enterprises had over 50% increase in 2020, one more than the previous year. In addition, 19 companies showed negative year-on-year growth, 9 less than last year.

In addition, according to incomplete statistics, more than 20 enterprises above designated size optimized their layout and improved their industrial chain through reorganization, merger and acquisition and joint establishment of subsidiaries in 2020.

- ✓ Zhejiang Wynca Chemical Industrial Group Co., Ltd. acquired 100% shares of Zhejiang Transfar Whyyon Chemical Co., Ltd.
- ✓ Lier Chemical Co., Ltd. and Corteva Agriscience (Shanghai) Co., Ltd. jointly built a subsidiary Guang'an Lihua Chemical Co., Ltd.
- ✓ Shandong Luba Chemical Co., Ltd. established a subsidiary Shandong Luba Biotechnology Co., Ltd.
- ✓ Limin Group Co., Ltd. acquired 5% equity of the Veyond assets (Hebei Veyong Bio-Chemical Co., Ltd., Hebei Veyong Animal Pharmaceutical Co., Ltd. and Inner Mongolia New Veyong Bio-Chemical Co., Ltd.).
- ✓ Red Sun International Industrial Co., Ltd., a wholly-owned subsidiary of Nanjing Red Sun Co., Ltd. had 25% equity of Shanghai Guoxi Financial Management Co., Ltd. transferred from Zhouji Industry Group Co., Ltd.
- ✓ ADAMA Ltd. acquired a 51% equity stake in Shanghai Dibai Plant Protection Co., Ltd. and a 51% equity stake in Jiangsu Kelinong Agrochemical Co., Ltd. from Jiangsu Huifeng Bio Agriculture Co., Ltd.

Table 2.1-1 List of 2021 China Top 100 Pesticide Enterprises

No.	Enterprise	Pesticide revenue in 2020, million RMB	Pesticide revenue in 2020, million USD	Pesticide revenue in 2019, million RMB	Pesticide revenue in 2019, million USD	YoY change	Ranking in 2019	Ranking change
1	ADAMA Ltd.	25,758	3,984	24,906	3,852	3.42%	1	0
2	Jiangsu Yangnong Chemical Co., Ltd.	9,754	1,509	8,639	1,336	12.91%	2	0
3	Shandong Weifang Rainbow Chemical Co., Ltd.	7,236	1,119	6,074	939	19.13%	3	0
4	Sino-Agri Leading Biosciences Co., Ltd.	6,611	1,022	1,117	173	491.85%	5 5	51
5	Nutrichem Co., Ltd.	6,186	957	5,230	809	18.28%	4	-1
6	Zhejiang Wynca Chemical Industrial Group Co., Ltd.	6,081	940	4,763	737	27.67%	6	0
7	Lianyungang Liben Crop Science and Technology Co., Ltd.	4,698	727	4,261	659	10.26%	7	0
8	Lier Chemical Co., Ltd.	4,644	718	4,044	625	14.84%	8	0
9	Hubei Xingfa Chemicals Group Co., Ltd.	4,387	678	3,614	559	21.39%	10	1
10	Nanjing Red Sun Co., Ltd.	3,986	616	4,768	737	-16.40%	5	-5
11	Limin Group Co., Ltd.	3,888	601	2,584	400	50.46%	18	7
12	Jiangsu Sevencontinent Green Chemical Co., Ltd.	3,786	586	3,135	485	20.77%	12	0
13	Shandong Binnong Technology Co., Ltd.	3,517	544	3,135	485	12.19%	13	0
14	Anhui Guangxin Agrochemical Co., Ltd.	3,402	526	3,110	481	9.39%	14	0
15	Hailir Pesticides and Chemicals Group Co., Ltd.	3,144	486	2,378	368	32.21%	21	6
16	Fuhua Tongda Agro-chemical Technology Co., Ltd.	3,061	473	3,946	610	-22.43%	9	-7
17	Nantong Jiangshan Agrochemical & Chemicals Co., Ltd.	3,017	467	2,779	430	8.56%	16	-1
18	Sichuan Hebang Biotechnology Co., Ltd.	3,006	465	1,405	217	113.95%	40	22
19	CAC Nantong Chemical Co., Ltd.	2,962	458	2,841	439	4.26%	15	-4
20	Jiangsu Changqing Agrochemical Co., Ltd.	2,928	453	3,287	508	-10.92%	11	-9
21	Zhejiang Zhongshan Chemical Industry Group Co., Ltd.	2,897	448	2,706	418	7.06%	17	-4
22	Shenzhen Noposion Agrochemicals Co., Ltd.	2,784	431	2,505	387	11.14%	20	-2

No.	Enterprise	Pesticide revenue in 2020, million RMB	Pesticide revenue in 2020, million USD	Pesticide revenue in 2019, million RMB	Pesticide revenue in 2019, million USD	YoY change	Ranking in 2019	Ranking change
23	Lianhe Chemical Technology Co., Ltd.	2,710	419	2,559	396	5.90%	19	-4
24	Shandong Luba Chemical Co., Ltd.	2,324	359	1,320	204	76.06%	44	20
25	Yongnong BioSciences Co., Ltd.	2,303	356	2,105	326	9.41%	24	-1
26	Guangdong Zhongxun Agri-science Corporation	2,161	334	1,732	268	24.77%	29	3
27	Syngenta Nantong Crop Protection Co., Ltd.	2,125	329	2,297	355	-7.49%	22	-5
28	Bayer CropScience (China) Co., Ltd.	2,060	319	2,170	336	-5.07%	23	-5
29	Corteva Agriscience (Shanghai) Co., Ltd.	2,013	311	1,813	280	11.03%	27	-2
30	Qilu Pharmaceutical (Inner Mongolia) Co., Ltd.	2,004	310	/	/	/	/	/
31	Hebei Xingbai Agricultural Technology Co., Ltd.	2,002	310	1,963	304	1.99%	25	-6
32	Ningbo Sunjoy Agrosience Co., Ltd.	1,965	304	886	137	121.78%	66	34
33	Guangdong Liwei Chemical Industry Co., Ltd.	1,958	303	1,788	277	9.51%	28	-5
34	Shandong Cynda Chemical Co., Ltd.	1,880	291	1,489	230	26.26%	34	0
35	Jiangsu Flag Chemical Industry Co., Ltd.	1,849	286	1,417	219	30.49%	38	3
36	Jiangxi Zhengbang Crop Protection Co., Ltd.	1,760	272	1,121	173	57.00%	54	18
37	Anhui Fengle Agrochemical Co., Ltd.	1,753	271	1,533	237	14.35%	33	-4
38	Yifan Biotechnology Group Co., Ltd.	1,749	270	1,650	255	6.00%	31	-7
39	Jingbo Agrochemicals Technology Co., Ltd.	1,740	269	1,462	226	19.02%	36	-3
40	Hunan Haili Chemical Industry Co., Ltd.	1,572	243	1,701	263	-7.58%	30	-10
41	Guangxi Tianyuan Biochemistry Co., Ltd.	1,526	236	1,307	202	16.76%	45	4
42	Qingdao Hansen Biologic Science Co., Ltd.	1,524	236	1,302	201	17.05%	46	4
43	Zhejiang Heben Pesticide & Chemicals Co., Ltd.	1,503	232	1,547	239	-2.84%	32	-11
44	Jiangsu Agrochem Laboratory Co., Ltd.	1,492	231	1,474	228	1.22%	35	-9

No.	Enterprise	Pesticide revenue in 2020, million RMB	Pesticide revenue in 2020, million USD	Pesticide revenue in 2019, million RMB	Pesticide revenue in 2019, million USD	YoY change	Ranking in 2019	Ranking change
45	Jiangsu Fengshan Group Co., Ltd.	1,492	231	865	134	72.49%	67	22
46	Maxunitech Inc.	1,489	230	1,283	198	16.06%	48	2
47	Shandong Sino-Agri United Biotechnology Co., Ltd.	1,467	227	1,367	211	7.32%	43	-4
48	Anhui Huaxing Chemical Industry Co., Ltd.	1,441	223	1,406	217	2.49%	39	-9
49	Jiangsu Huifeng Bio Agriculture Co., Ltd.	1,410	218	924	143	52.60%	64	15
50	DuPont Agricultural Chemicals Ltd., Shanghai	1,380	213	1,400	217	-1.43%	42	-8
51	Jiangsu Good Harvest-Weien Agrochemical Co., Ltd.	1,280	198	1,071	166	19.51%	57	6
52	Shandong A&Fine Agrochemicals Co., Ltd.	1,271	197	1,430	221	-11.12%	37	-15
53	Jiangsu Rotam Chemistry Co., Ltd.	1,260	195	1,125	174	12.00%	53	0
54	Synwill Co., Ltd.	1,238	191	1,173	181	5.54%	50	-4
55	Trust Crop Protection Technology Co., Ltd.	1,214	188	1,128	174	7.62%	52	-3
56	Zhejiang Xinnong Chemical Co., Ltd.	1,176	182	1,061	164	10.84%	58	2
57	Jiangsu Lanfeng Bio-chemical Co., Ltd.	1,162	180	1,115	172	4.22%	56	-1
58	Shandong Huayang Pesticide Chemical Industry Group Co., Ltd.	1,144	177	1,401	217	-18.34%	41	-17
59	Qiaochang Modern Agriculture Co., Ltd.	1,097	170	984	152	11.48%	61	2
60	Jiangsu Repon Agrochemical Co., Ltd.	1,093	169	1,229	190	-11.07%	49	-11
61	Shandong Kesai Agrochem Holdings Co., Ltd.	1,086	168	987	153	10.03%	60	-1
62	BASF Crop Protection (Jiangsu) Co., Ltd.	1,058	164	936	145	13.03%	63	1
63	Jiangsu Aijin Crop Science and Technology Group Co., Ltd.	1,055	163	744	115	41.80%	71	8
64	Hebei Lansheng Biotech Co., Ltd.	1,029	159	918	142	12.09%	65	1
65	FMC (Suzhou) Crop Care Co., Ltd.	958	148	1,030	159	-6.99%	59	-6
66	Suli Co., Ltd.	934	144	1,143	177	-18.29%	51	-15

No.	Enterprise	Pesticide revenue in 2020, million RMB	Pesticide revenue in 2020, million USD	Pesticide revenue in 2019, million RMB	Pesticide revenue in 2019, million USD	YoY change	Ranking in 2019	Ranking change
67	Zhejiang Jinfanda Biochemical Co., Ltd.	896	139	1,296	200	-30.86%	47	-20
68	Hangzhou Udragon Chemical Co., Ltd.	896	139	676	105	32.54%	78	10
69	Jiangsu Sword Agrochemicals Co., Ltd.	870	135	679	105	28.13%	77	8
70	Zhejiang Well-done Chemical Co., Ltd.	851	132	731	113	16.42%	72	2
71	Hebei Guanlong Agrochemical Co., Ltd.	830	128	543	84	52.85%	86	15
72	Chongqing Shurong Crop Science Co., Ltd.	821	127	770	119	6.62%	68	-4
73	Sichuan Guoguang Agrochemical Co., Ltd.	809	125	756	117	7.01%	69	-4
74	Lion Agrevo (Jiangsu) Co., Ltd.	802	124	750	116	6.93%	70	-4
75	Ningxia Taiyixin Biotech Co., Ltd.	765	118	/	/	/	/	/
76	Guangxi Yiduoshou Bio-Technology Co., Ltd.	738	114	713	110	3.51%	74	-2
77	Hebei Yetian Agrochemicals Co., Ltd.	720	111	528	82	36.36%	88	11
78	Pilar (Shanghai) Co., Ltd.	716	111	625	97	14.56%	80	2
79	Anhui Zhongbang Biological Engineering Co., Ltd.	657	102	538	83	22.12%	87	8
80	Anhui Jiuyi Agriculture Co., Ltd.	657	102	518	80	26.83%	93	13
81	Jinan Tianbang Chemical Co., Ltd.	651	101	549	85	18.58%	84	3
82	Qilu Synva Pharmaceutical Co., Ltd.	637	99	715	111	-10.91%	73	-9
83	Jiangsu Chunjiang Runtian Agrochemical Co., Ltd.	621	96	606	94	2.48%	81	-2
84	Hefei Xingyu Chemical Co., Ltd.	620	96	558	86	11.11%	83	-1
85	Zibo Nab Agrochemicals Limited	620	96	524	81	18.32%	91	6
86	Jiangsu Weunite Fine Chemical Co., Ltd.	592	92	639	99	-7.36%	79	-7
87	Jiangsu Noon Crop Science Co., Ltd.	586	91	/	/	/	/	/
88	Ningxia Ruitai Technology Co., Ltd.	563	87	/	/	/	/	/
89	Anhui Yinong Chemical Co., Ltd.	562	87	528	82	6.44%	89	0

No.	Enterprise	Pesticide revenue in 2020, million RMB	Pesticide revenue in 2020, million USD	Pesticide revenue in 2019, million RMB	Pesticide revenue in 2019, million USD	YoY change	Ranking in 2019	Ranking change
90	Jilin Jinqiu Pesticide Co., Ltd.	550	85	523	81	5.16%	92	2
91	Jiangsu Kwin Group Co., Ltd.	541	84	686	106	-21.14%	75	-16
92	North China Pharmaceutical Group Aino Co., Ltd.	539	83	/	/	/	/	/
93	Jilin Bada Pesticide Co., Ltd.	526	81	526	81	0.00%	90	-3
94	Hubei Benxing Agrochemical Co., Ltd.	525	81	956	148	-45.08%	62	-32
95	Shandong Vicome Greenland Chemical Co., Ltd.	512	79	507	78	0.99%	95	0
96	Shaanxi Sunger Road Bio-science Co., Ltd.	503	78	496	77	1.41%	96	0
97	Syngenta (Suzhou) Crop Protection Co., Ltd.	494	76	513	79	-3.70%	94	-3
98	Henan HDF Chemical Co., Ltd.	487	75	/	/	/	/	/
99	Zhejiang Corechem Co., Ltd.	483	75	/	/	/	/	/
100	Hunan Haohua Chemical Co., Ltd.	451	70	/	/	/	/	/

Source: CCPIA & CCM

Note: Qilu Synva Pharmaceutical Co., Ltd. (NO.82 in this list), is a wholly-owned subsidiary of Qilu Pharmaceutical (Inner Mongolia) Co., Ltd. (NO.30 in this list).

Table 2.1-2 Newly added pesticide enterprises in the 2021 list

No.	Enterprise	Pesticide revenue in 2020, million USD	Pesticide revenue in 2020, million RMB	Ranking
1	Qilu Pharmaceutical (Inner Mongolia) Co., Ltd.	2,004	310	30
2	Ningxia Taiyixin Biotech Co., Ltd.	765	118	75
3	Jiangsu Noon Crop Science Co., Ltd.	586	91	87
4	Ningxia Ruitai Technology Co., Ltd.	563	87	88
5	North China Pharmaceutical Group Aino Co., Ltd.	539	83	92
6	Henan HDF Chemical Co., Ltd.	487	75	98
7	Zhejiang Corechem Co., Ltd.	483	75	99
8	Hunan Haohua Chemical Co., Ltd.	451	70	100

Source: CCPIA & CCM

Table 2.1-3 List of the enterprises with annual growth rate of pesticide revenue exceeding 50%, 2020

No.	Enterprise	YoY change	Pesticide revenue in 2020, million RMB	Pesticide revenue in 2020, million USD	Pesticide revenue in 2019, million RMB	Pesticide revenue in 2019, million USD	Ranking
1	Sino-Agri Leading Biosciences Co., Ltd.	491.85%	6,611	1,022	1,117	173	4
2	Ningbo Sunjoy Agrosience Co., Ltd.	121.78%	1,965	304	886	137	32
3	Sichuan Hebang Biotechnology Co., Ltd.	113.95%	3,006	465	1,405	217	18
4	Shandong Luba Chemical Co., Ltd.	76.06%	2,324	359	1,320	204	24
5	Jiangsu Fengshan Group Co., Ltd.	72.49%	1,492	231	865	134	45
6	Jiangxi Zhengbang Crop Protection Co., Ltd.	57.00%	1,760	272	1,121	173	36
7	Hebei Guanlong Agrochemical Co., Ltd.	52.85%	830	128	543	84	71
8	Jiangsu Huifeng Bio Agriculture Co., Ltd.	52.60%	1,410	218	924	143	49
9	Limin Group Co., Ltd.	50.46%	3,888	601	2,584	400	11

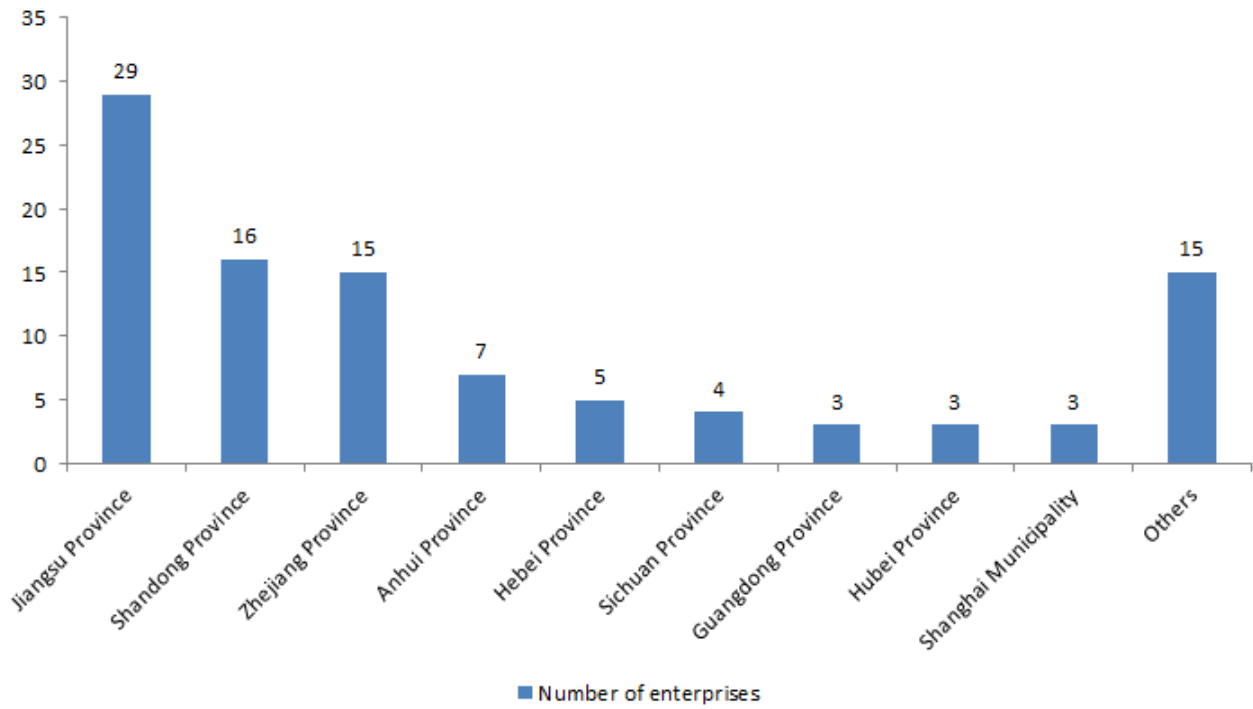
Source: CCPIA & CCM

2.2 Geographical distribution of 2021 China Top 100 pesticide enterprises

Analysis of the geographical distribution of 2021 China Top 100 pesticide enterprises shows that the top three provinces in pesticide revenue in 2020 are Jiangsu Province, Hubei Province and Shandong Province. The pesticide revenue of the three provinces accounts for 56.79% of the total.

In 2020, the total pesticide revenue in Jiangsu Province was USD8.96 billion (RMB57.91 billion), accounting for 27.77% of the total. Jiangsu Province has 29 enterprises in the list, down by 3 from that in 2019. Hubei Province, with just 3 enterprises in the list, raked in pesticide revenue of USD4.74 billion (RMB30.67 billion), and ranks the second, mainly due to the excellent performance of ADAMA Ltd. Shandong Province ranked the third in revenue, with 16 enterprises on the list and pesticide revenue of USD4.62 billion (RMB29.85 billion).

Figure 2.2-1 Number of 2021 Top 100 pesticide enterprises in China by region, 2020



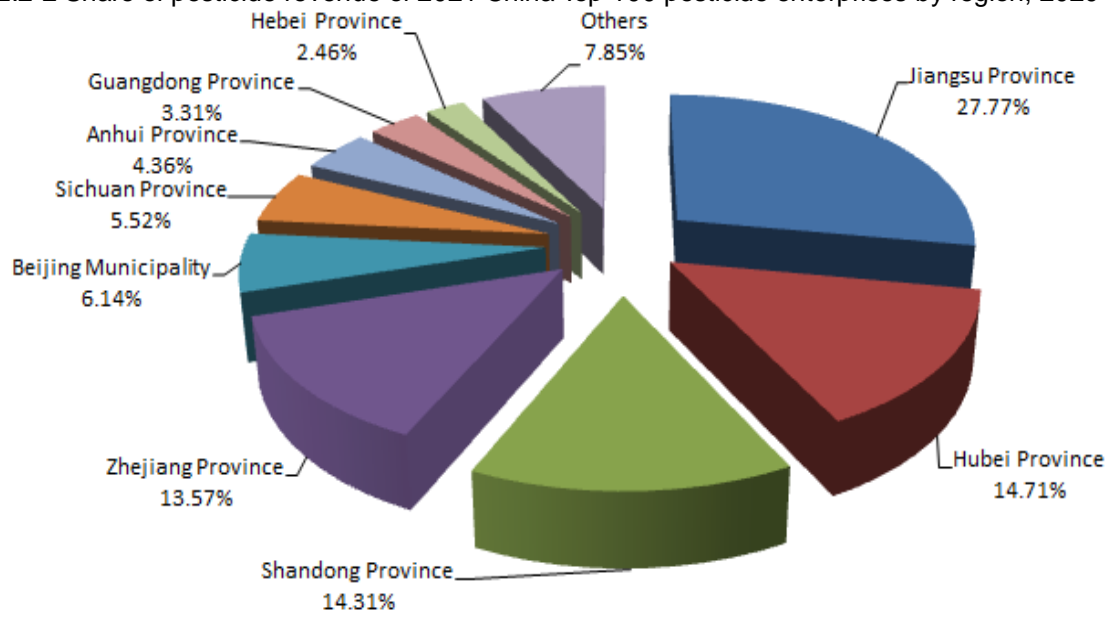
Source: CCPIA & CCM

Table 2.2-1 Revenue of 2021 China Top 100 pesticide enterprises by region, 2020

No.	Region	Pesticide revenue in 2020, million RMB	Pesticide revenue in 2020, million USD
1	Jiangsu Province	57,907	8,959
2	Hubei Province	30,670	4,743
3	Shandong Province	29,850	4,618
4	Zhejiang Province	28,297	4,376
5	Beijing Municipality	12,797	1,979
6	Sichuan Province	11,520	1,781
7	Anhui Province	9,092	1,407
8	Guangdong Province	6,903	1,068
9	Hebei Province	5,120	791
10	Shanghai Municipality	4,109	635
11	Guangxi Zhuang Autonomous Region	2,264	350
12	Hunan Province	2,023	313
13	Inner Mongolia Autonomous Region	2,004	310
14	Jiangxi Province	1,760	272
15	Ningxia Hui Autonomous Region	1,328	205
16	Jilin Province	1,076	166
17	Chongqing Municipality	821	127
18	Shaanxi Province	503	78
19	Henan Province	487	75
Total		208,531	32,253

Source: CCPIA & CCM

Figure 2.2-2 Share of pesticide revenue of 2021 China Top 100 pesticide enterprises by region, 2020



Source: CCPIA & CCM

3 Top pesticide formulation enterprises in China

3.1 2021 China Top 100 pesticide formulation enterprises

In 2020, pesticide industry entered a high-quality development stage, and the effect of industry transformation and upgrading was prominent. Enterprises in the 2021 Top 100 List for pesticide formulation business achieved total revenue of USD6.00 billion (RMB38.81 billion), with a yearly increase of 12.65%. Sales threshold for the Top 100 list this year was USD15 million (RMB100 million).

Sales of the top 10 companies altogether approached USD2.25 billion (RMB14.51 billion), accounting for 37.39% of the total, with an increase of 14.69% over the previous year. It is worth noting that 8 companies achieved sales of more than USD155 million (RMB1 billion), one more than the 2020. There are 13 enterprises with sales between RMB500 million and RMB1,000 million (approximately within the range of USD77 million–USD155 million), and the rest 79 enterprises with sales between RMB100 million and RMB500 million (within the range of USD15 million to USD77 million). On the whole, compared with the technical manufacturers, the average scale of enterprises in formulation business is still small, but the overall sales performance has increased significantly.

Specifically, Shenzhen Noposion Agrochemicals Co., Ltd. (Shenzhen Noposion) ranked first, with sales of USD431 million (RMB2,784 million) in 2020. Guangdong Zhongxun Agri-science Corporation came second, the same as 2020, and it achieved sales of USD334 million (RMB2,161 million). The third place belonged to Jiangxi Zhengbang Crop Protection Co., Ltd., up 2 places from 2020.

This year, 19 new comers made it to the list, among which Sichuan Guoguang Agrochemical Co., Ltd. ranked 13th, and Shandong Vicome Greenland Chemical Co., Ltd. ranked 20th.

In terms of annual growth rate in pesticide revenue, 6 recorded 50% over year-on-year increase, especially Sunong (Guangde) Biotechnology Co., Ltd. (94.29%), Zhejiang Jishun Plant Technology Co., Ltd. (71.84%) and Anhui Shengdan Biochemical Co., Ltd. (62.00%).

Table 3.1-1 List of 2021 China Top 100 Pesticide Formulation Enterprises

No.	Enterprise	Pesticide revenue in 2020, million RMB	Pesticide revenue in 2020, million USD	Pesticide revenue in 2019, million RMB	Pesticide revenue in 2019, million USD	YoY change	Ranking in 2019	Ranking change	Ranking in the list of 2020 China Top 100 Pesticide Enterprises
1	Shenzhen Noposion Agrochemicals Co., Ltd.	2,784	431	2,505	387	11.14%	1	0	22
2	Guangdong Zhongxun Agri-science Corporation	2,161	334	1,732	268	24.77%	2	0	26
3	Jiangxi Zhengbang Crop Protection Co., Ltd.	1,760	272	1,121	173	57.00%	5	2	36
4	Guangxi Tianyuan Biochemistry Co., Ltd.	1,526	236	1,307	202	16.76%	3	-1	41
5	Jiangsu Rotam Chemistry Co., Ltd.	1,260	195	1,125	174	12.00%	4	-1	53
6	Qiaochang Modern Agriculture Co., Ltd.	1,097	170	984	152	11.48%	8	2	59
7	BASF Crop Protection (Jiangsu) Co., Ltd.	1,058	164	936	145	13.03%	9	2	62

No.	Enterprise	Pesticide revenue in 2020, million RMB	Pesticide revenue in 2020, million USD	Pesticide revenue in 2019, million RMB	Pesticide revenue in 2019, million USD	YoY change	Ranking in 2019	Ranking change	Ranking in the list of 2020 China Top 100 Pesticide Enterprises
8	Jiangsu Aijin Crop Science and Technology Group Co., Ltd.	1,055	163	744	115	41.80%	12	4	63
9	FMC (Suzhou) Crop Care Co., Ltd.	958	148	1,030	159	-6.99%	7	-2	65
10	Zhejiang Well-done Chemical Co., Ltd.	851	132	731	113	16.42%	13	3	70
11	Chongqing Shurong Crop Science Co., Ltd.	821	127	770	119	6.62%	11	0	72
12	Shandong Kesai Agrochem Co., Ltd.	811	125	795	123	2.01%	10	-2	/
13	Sichuan Guoguang Agrochemical Co., Ltd.	809	125	/	/	/	/	/	73
14	Guangxi Yiduoshou Bio-Technology Co., Ltd.	738	114	713	110	3.51%	14	0	76
15	Pilar (Shanghai) Co., Ltd.	716	111	625	97	14.56%	15	0	78
16	Anhui Zhongbang Biological Engineering Co., Ltd.	657	102	538	83	22.12%	18	2	79
17	Jinan Tianbang Chemical Co., Ltd.	651	101	549	85	18.58%	17	0	81
18	Anhui Yinong Chemical Co., Ltd.	562	87	528	82	6.44%	19	1	89
19	Jilin Bada Pesticide Co., Ltd.	526	81	526	81	0.00%	20	1	93
20	Shandong Vicome Greenland Chemical Co., Ltd.	512	79	/	/	/	/	/	95
21	Shaanxi Sunger Road Bio-science Co., Ltd.	503	78	496	77	1.41%	23	2	96
22	Syngenta (Suzhou) Crop Protection Co., Ltd.	494	76	513	79	-3.70%	22	0	97
23	Jiangmen Plant Protection Co., Ltd.	455	70	330	51	37.88%	30	7	/
24	Yixing Xingnong Chemical Products Co., Ltd.	451	70	385	60	17.14%	25	1	/
25	Hainan Zhengye Zhongnong High-Tech Co., Ltd.	450	70	420	65	7.14%	24	-1	/

No.	Enterprise	Pesticide revenue in 2020, million RMB	Pesticide revenue in 2020, million USD	Pesticide revenue in 2019, million RMB	Pesticide revenue in 2019, million USD	YoY change	Ranking in 2019	Ranking change	Ranking in the list of 2020 China Top 100 Pesticide Enterprises
26	Sinon Chemical (China) Co., Ltd.	449	69	352	54	27.56%	28	2	/
27	Yixing Yizhou Chemical Products Co., Ltd.	417	64	308	48	35.39%	32	5	/
28	Jinan Zhongke Green Biological Engineering Co., Ltd.	395	61	295	46	33.90%	36	8	/
29	Anhui Huilong Group Youngsun Pesticides Co., Ltd.	385	60	336	52	14.58%	29	0	/
30	Shanghai Yuelian Biological Technology Co., Ltd.	372	58	317	49	17.35%	31	1	/
31	Hebei Zhongtian Bangzheng Biological Technology Co., Ltd.	367	57	261	40	40.61%	38	7	/
32	Shaanxi Hengtian Biological Agriculture Co., Ltd.	363	56	356	55	1.97%	27	-5	/
33	Qingdao Jiner Agrochemicals (Group) R&D Co., Ltd.	350	54	378	58	-7.41%	26	-7	/
34	Zhejiang Sega Science and Technology Co., Ltd.	324	50	299	46	8.36%	33	-1	/
35	Hunan Xinchangshan Agricultural Development Co., Ltd.	319	49	214	33	49.07%	44	9	/
36	Hebei Zhongbao Green Agricultural Science and Technology Co., Ltd.	311	48	250	39	24.40%	40	4	/
37	Tianjin Huayu Pesticide Co., Ltd.	305	47	296	46	3.04%	35	-2	/
38	Jixi Qingfeng Tianying Biochemical Co., Ltd.	300	46	/	/	/	/	/	/
39	Shanghai Hujiang Biochemical Co., Ltd.	292	45	/	/	/	/	/	/

No.	Enterprise	Pesticide revenue in 2020, million RMB	Pesticide revenue in 2020, million USD	Pesticide revenue in 2019, million RMB	Pesticide revenue in 2019, million USD	YoY change	Ranking in 2019	Ranking change	Ranking in the list of 2020 China Top 100 Pesticide Enterprises
40	Shandong Shibang Agrochemicals Co., Ltd.	282	44	192	30	46.88%	51	11	/
41	Shandong Zhongxin Kenong Biological Technology Co., Ltd.	269	42	252	39	6.75%	39	-2	/
42	Jiangxi Weidi Biotechnology Co., Ltd.	261	40	174	27	50.00%	53	11	/
43	Shanghai Hulian Biopharmaceutical (Xiayi) Co., Ltd.	255	39	195	30	30.77%	49	6	/
44	Shandong Runyang Chemical Co., Ltd.	255	39	205	32	24.39%	47	3	/
45	Hebei Rongwei Biological Pharmaceutical Co., Ltd.	241	37	216	33	11.57%	43	-2	/
46	Nanjing Gaozheng Agricultural Chemical Co., Ltd.	232	36	210	32	10.48%	46	0	/
47	Hainan Bosswell Agrochemical Co., Ltd.	230	36	245	38	-6.12%	41	-6	/
48	Tianjin Highpoint Plant Protection Co., Ltd.	224	35	213	33	5.16%	45	-3	/
49	Shandong Lvbang Crop Science Co., Ltd.	216	33	160	25	35.00%	57	8	/
50	Shaanxi Xidahuate Co., Ltd.	216	33	203	31	6.40%	48	-2	/
51	Hebei Nongxin Agrochemical Group Co., Ltd.	212	33	193	30	9.84%	50	-1	/
52	Shanghai HKC Ltd.	209	32	228	35	-8.33%	42	-10	/
53	Sunong (Guangde) Biotechnology Co., Ltd.	204	32	105	16	94.29%	86	33	/
54	Zhenjiang Pioneer Crops Science Co., Ltd.	202	31	150	23	34.67%	65	11	/
55	Anhui Lanmpin Agricultural Development Co., Ltd.	198	31	140	22	41.43%	67	12	/

No.	Enterprise	Pesticide revenue in 2020, million RMB	Pesticide revenue in 2020, million USD	Pesticide revenue in 2019, million RMB	Pesticide revenue in 2019, million USD	YoY change	Ranking in 2019	Ranking change	Ranking in the list of 2020 China Top 100 Pesticide Enterprises
56	Shanghai Shengnong Pesticide Co., Ltd.	196	30	183	28	7.10%	52	-4	/
57	Shanxi Qixing Pesticide Co., Ltd.	196	30	/	/	/	/	/	/
58	Jiangsu Dongbao Agrochemical Co., Ltd.	193	30	137	21	40.88%	70	12	/
59	Guangdong Zhenge Biotechnology Co., Ltd.	186	29	171	26	8.77%	54	-5	/
60	Luheng Technology Group Co., Ltd.	184	28	/	/	/	/	/	/
61	Shandong Zouping Pesticides Co., Ltd.	183	28	150	23	22.00%	64	3	/
62	Shaanxi Kanghelifeng Biotechnology Pesticide Co., Ltd.	178	28	140	22	27.14%	68	6	/
63	Jinan Yinong Chemical Co., Ltd.	178	28	120	19	48.33%	75	12	/
64	Zhejiang Jishun Plant Technology Co., Ltd.	177	27	103	16	71.84%	88	24	/
65	Jiangxi Bafit Chemical Co., Ltd.	165	26	/	/	/	/	/	/
66	Dezhou Xianglong Biochemical Co., Ltd.	164	25	/	/	/	/	/	/
67	Hefei Henong Pesticide Co., Ltd.	162	25	104	16	55.77%	87	20	/
68	Anyang Ruipu Agrochemical Co., Ltd.	162	25	/	/	/	/	/	/
69	Anhui Shengdan Biochemical Co., Ltd.	162	25	100	15	62.00%	95	26	/
70	Anhui Meilan Agricultural Development Co., Ltd.	161	25	118	18	36.44%	79	9	/
71	Xiamen Yizhi Biotechnology Co., Ltd.	158	24	/	/	/	/	/	/
72	Shandong Shengpeng Technology Co., Ltd.	152	24	120	19	26.67%	77	5	/

No.	Enterprise	Pesticide revenue in 2020, million RMB	Pesticide revenue in 2020, million USD	Pesticide revenue in 2019, million RMB	Pesticide revenue in 2019, million USD	YoY change	Ranking in 2019	Ranking change	Ranking in the list of 2020 China Top 100 Pesticide Enterprises
73	Zhejiang Tianyi Biotechnology Co., Ltd.	152	24	145	22	4.83%	66	-7	/
74	Huizhou Yinnong Technology Co., Ltd.	151	23	157	24	-3.82%	59	-15	/
75	Jiangsu Agricultural Cultivation Biochemical Co., Ltd.	151	23	107	17	41.12%	84	9	/
76	Shandong Changqing Pesticide Factory Co., Ltd.	151	23	157	24	-3.82%	61	-15	/
77	Nantong Lihua Agrochemical Co., Ltd.	150	23	133	21	12.78%	72	-5	/
78	Shandong Danong Pharmaceutical Co., Ltd.	145	22	98	15	47.96%	99	21	/
79	Henan Changjian Biotechnology Co., Ltd.	143	22	/	/	/	/	/	/
80	Anhui Shengfeng Biochemical Co., Ltd.	140	22	112	17	25.00%	83	3	/
81	Lanxi Jinghang Biotechnology Co., Ltd.	138	21	/	/	/	/	/	/
82	Hengshui Hengwei Chemical Co., Ltd.	134	21	/	/	/	/	/	/
83	Tongling Fucheng Pesticide Co., Ltd.	134	21	100	15	34.00%	97	14	/
84	Henan Boersen Agricultural Technology Co., Ltd.	133	21	120	19	10.83%	78	-6	/
85	Dalian Songliao Chemical Industry Co., Ltd.	129	20	137	21	-5.84%	69	-16	/
86	Nanjing Ronch Biological Technology Co., Ltd.	128	20	/	/	/	/	/	/
87	Zibo Meitian Pesticide Co., Ltd.	128	20	/	/	/	/	/	/
88	Hebei Boken Agriculture Co., Ltd.	125	19	105	16	19.05%	85	-3	/

No.	Enterprise	Pesticide revenue in 2020, million RMB	Pesticide revenue in 2020, million USD	Pesticide revenue in 2019, million RMB	Pesticide revenue in 2019, million USD	YoY change	Ranking in 2019	Ranking change	Ranking in the list of 2020 China Top 100 Pesticide Enterprises
89	Jiangsu Bangsheng Biological Technology Co., Ltd.	120	19	102	16	17.65%	89	0	/
90	Zhejiang Longyou Eastern Anasac Crop Science Co., Ltd.	115	18	129	20	10.85%	73	-17	/
91	Shaanxi Xiannong Biology Science Co., Ltd.	114	18	101	16	12.87%	94	3	/
92	Liuzhou Huinong Chemical Co., Ltd.	113	17	113	17	0.00%	81	-11	/
93	Foshan Daxing Biochemical Co., Ltd.	112	17	100	15	12.00%	96	3	/
94	Anhui Chaonong High-tech Chemical Co., Ltd.	106	16	/	/	/	/	/	/
95	Shandong Yannong Biotechnology Co., Ltd.	105	16	/	/	/	/	/	/
96	Xi'an Peak Bio-Chemical Co., Ltd.	105	16	100	15	5.00%	98	2	/
97	Jiangsu Southeast Plant Protection Co., Ltd.	103	16	/	/	/	/	/	/
98	Shandong New Power Biotechnology Co., Ltd.	102	16	101	16	0.99%	93	-5	/
99	Yangzhou Suling Agricultural Chemicals Co., Ltd.	101	16	/	/	/	/	/	/
100	Tianjin Shipule Pesticide Technical Dep. Co., Ltd.	100	15	102	16	-1.96%	91	-9	/

Source: CCPIA & CCM

Note: Shandong Kesai Agrochem Co., Ltd. (No. 12 in this list), is a wholly-owned subsidiary of Shandong Kesai Agrochem Holdings Co., Ltd., which ranked 61 in the list of 2021 China Top 100 pesticide enterprises.

Table 3.1-2 Newly added pesticide formulation enterprises in the 2021 list

No.	Enterprise	Pesticide revenue in 2020, million USD	Pesticide revenue in 2020, million RMB	Ranking
1	Sichuan Guoguang Agrochemical Co., Ltd.	809	125	13
2	Shandong Vicome Greenland Chemical Co., Ltd.	512	79	20
3	Jixi Qingfeng Tianying Biochemical Co., Ltd.	300	46	38
4	Shanghai Hujiang Biochemical Co., Ltd.	292	45	39
5	Shanxi Qixing Pesticide Co., Ltd.	196	30	57
6	Luheng Technology Group Co., Ltd.	184	28	60
7	Jiangxi Bafit Chemical Co., Ltd.	165	26	65
8	Dezhou Xianglong Biochemical Co., Ltd.	164	25	66
9	Anyang Ruipu Agrochemical Co., Ltd.	162	25	68
10	Xiamen Yizhi Biotechnology Co., Ltd.	158	24	71
11	Henan Changjian Biotechnology Co., Ltd.	143	22	79
12	Lanxi Jinghang Biotechnology Co., Ltd.	138	21	81
13	Hengshui Hengwei Chemical Co., Ltd.	134	21	82
14	Nanjing Ronch Biological Technology Co., Ltd.	128	20	86
15	Zibo Meitian Pesticide Co., Ltd.	128	20	87
16	Anhui Chaonong High-tech Chemical Co., Ltd.	106	16	94
17	Shandong Yannong Biotechnology Co., Ltd.	105	16	95
18	Jiangsu Southeast Plant Protection Co., Ltd.	103	16	97
19	Yangzhou Suling Agrochemicals Co., Ltd.	101	16	99

Source: CCPIA & CCM

Table 3.1-3 List of the formulation enterprises with annual growth rate of revenue exceeding 50%, 2020

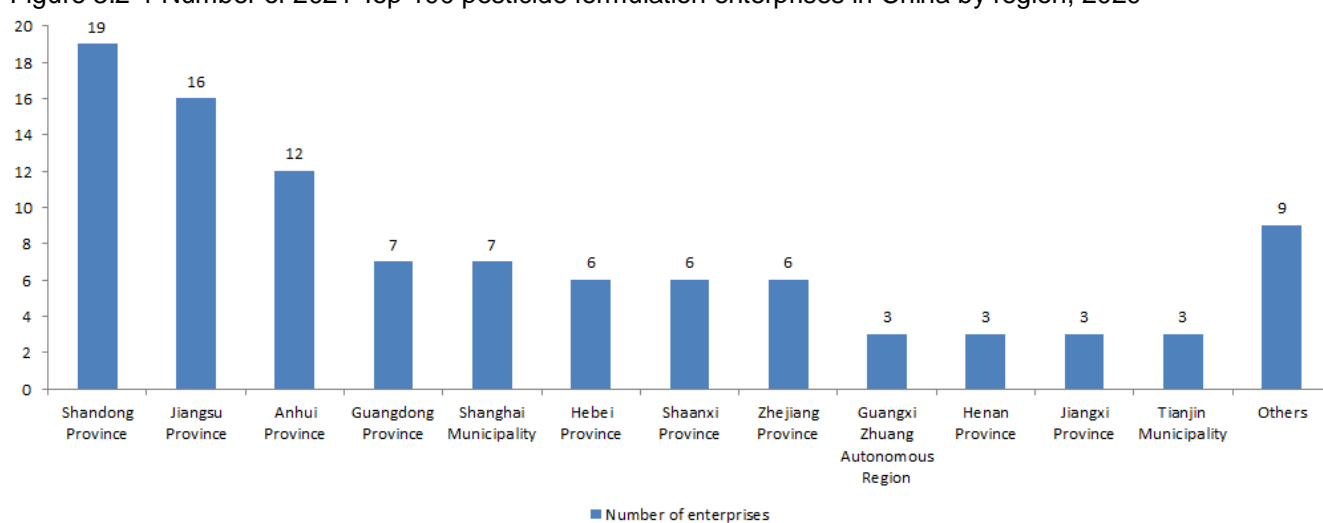
No.	Enterprise	YoY change	Pesticide revenue in 2020, million RMB	Pesticide revenue in 2020, million USD	Pesticide revenue in 2019, million RMB	Pesticide revenue in 2019, million USD	Ranking
1	Sunong (Guangde) Biotechnology Co., Ltd.	94.29%	204	32	105	16	53
2	Zhejiang Jishun Plant Technology Co., Ltd.	71.84%	177	27	103	16	64
3	Anhui Shengdan Biochemical Co., Ltd.	62.00%	162	25	100	15	69
4	Jiangxi Zhengbang Crop Protection Co., Ltd.	57.00%	1,760	272	1,121	173	3
5	Hefei Henong Pesticide Co., Ltd.	55.77%	162	25	104	16	67
6	Jiangxi Weidi Biotechnology Co., Ltd.	50.00%	261	40	174	27	42

Source: CCPIA & CCM

3.2 Geographical distribution of 2021 China Top 100 pesticide formulation enterprises

Through the analysis of the geographical distribution of 2021 China Top 100 pesticide formulation enterprises, it is known to us that the sales of Jiangsu Province was USD1.09 billion (RMB7.07 billion), 18.23% of the total, ranking the first. Jiangsu Province has 16 companies entering the list of Top 100 pesticide formulation enterprises, 2 more over last list. Although Shandong Province had 19 companies into the list, their combined revenue reached USD0.95 billion (RMB6.15 billion), 15.84% of the total, ranking the second. Guangdong Province ranked the third, with only 7 companies on the list and the revenue of USD0.93 billion (RMB6.03 billion). It's worth noting that the companies ranking first and second in the list are both from Guangdong Province.

Figure 3.2-1 Number of 2021 Top 100 pesticide formulation enterprises in China by region, 2020



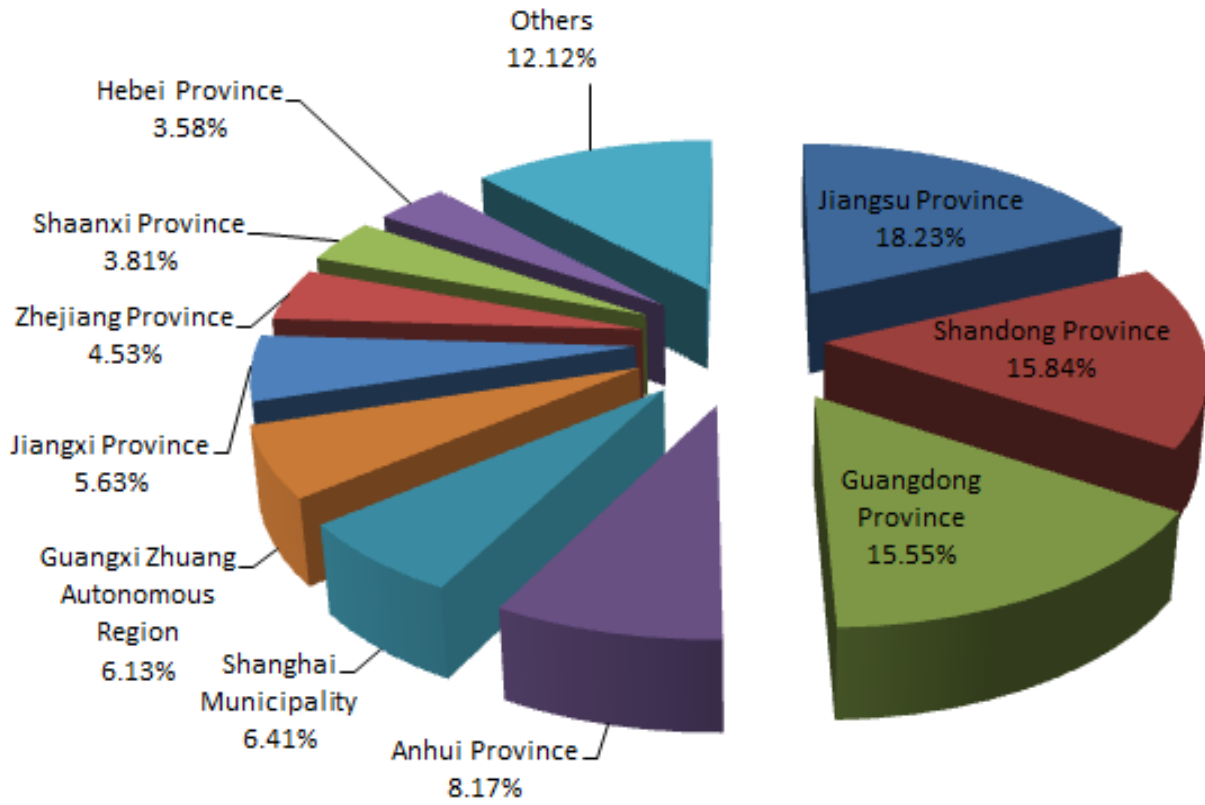
Source: CCPIA & CCM

Table 3.2-1 Revenue of 2021 China Top 100 pesticide formulation enterprises by region, 2020

No.	Region	Pesticide revenue in 2020, million RMB	Pesticide revenue in 2020, million USD
1	Jiangsu Province	7,073	1,094
2	Shandong Province	6,146	950
3	Guangdong Province	6,033	932
4	Anhui Province	3,171	492
5	Shanghai Municipality	2,489	384
6	Guangxi Zhuang Autonomous Region	2,377	367
7	Jiangxi Province	2,186	338
8	Zhejiang Province	1,757	272
9	Shaanxi Province	1,479	229
10	Hebei Province	1,390	215
11	Chongqing Municipality	821	127
12	Sichuan Province	809	125
13	Hainan Province	680	106
14	Tianjin Municipality	629	97
15	Jilin Province	526	81
16	Henan Province	438	68
17	Hunan Province	319	49
18	Shanxi Province	196	30
19	Fujian Province	158	24
20	Liaoning Province	129	20
Total		38,806	6,000

Source: CCPIA & CCM

Figure 3.2-2 Share of pesticide revenue of 2021 China Top 100 pesticide formulation enterprises by region, 2020



Source: CCPIA & CCM

4 Top crop protection brands in China in 2020

Popular pesticide brands (by sales) in China in 2020, selected by the CCPIA, were disclosed in the 8th Analysis Meeting of Economic Operation in Pesticide Industry on 13 May, 2021.

The lists of 2020 popular pesticide brands in China this year include 77 products from 72 enterprises. The listed brands cover 13 herbicide products, 14 insecticide products, 17 fungicide products, 8 plant growth regulator products, 11 biopesticide products and 14 blockbuster possible products. 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.

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, which also puts forward higher requirements on pesticide enterprises. Pesticide enterprises have been trying to improve themselves to adapt to the ever changing environment. Only by continuously improving product quality, services and creativity and enhancing scientific and technological ability can these enterprises maintain advantages in pesticide industry.

Table 4-1 List of 2020 China Crop Protection Popular Herbicide Brands

No.	Enterprise	Product	Brand
1	Jiangsu Sevencontinent Green Chemical Co., Ltd.	Glufosinate ammonium 200g/L AS	Qizhoujingtiandi
2	Shaanxi Biaozheng Crop Science Co., Ltd.	Glyphosate 30% IPA AS	Nongbangbang
3	Syngenta (Suzhou) Crop Protection Co., Ltd.	Pinoxaden 5% EC	Aixiu
4	BASF (China) Co., Ltd.	Topramezone 30% SC	Baowei
5	Shandong Kesai Agrochem Co., Ltd.	Flumioxazin-Glufosinate-ammonium 66% WP	Kesai Baojie
6	Anhui Zhongbang Biological Engineering Co., Ltd.	Mefenacet-Penoxsulam 70% WG	Daomeina
7	Hefei Xingyu Chemical Co., Ltd.	Cyhalofop-butyl 30% EC	Daoguanjia
8	Bayer Cropscience (China) Co., Ltd.	Thiencarbazone-methyl-Isoxaflutole 26% SC	Aiyuyou
9	Jiangsu Yong'an Chemical Co., Ltd.	Pendimethalin 330g/L EC	Caoyaling
10	Foshan BrightMart Cropscience Co., Ltd.	Oxadiazyl-Pretilachlor 31% EW	Daokeren
11	Tongling Fucheng Pesticide Co., Ltd.	Florasulam-Carfentrazone-ethyl 6% OD	Donghao
12	Shandong Bio Biotechnology Co., Ltd.	Nicosulfuron-Atrazine-2,4-D-ethylhexyl 31% OD	Jinernongmu
13	Hunan Xinchangshan Agricultural Development Co., Ltd.	Cyhalofop-butyl 20% OD	Changshanqianbai

Source: CCPIA & CCM

Table 4-2 List of 2020 China Crop Protection Popular Insecticide Brands

No.	Enterprise	Product	Brand
1	Sinochem International Crop Care Company Limited	Cyetyprafen 30% SC	Baozhuo
2	Sinochem International Crop Care Company Limited	Tetrachlorantraniliprole 10% SC	Shuanggong 9080
3	Syngenta Nantong Crop Protection Co., Ltd.	Thiamethoxam-Lambda-cyhalothrin 22% CS-SC	Alika
4	Huizhou Yinnong Technology Co., Ltd.	Emamectin benzoate 5.7% ME	Nongzhouxing
5	Jiangsu Bangsheng Biological Technology Co., Ltd.	Methoxyfenozide-Indoxacarb 26% SC	Guixia
6	Shandong Danong Pharmaceutical Co., Ltd.	Thiamethoxam 3% GR	Danonghong
7	Yanhua Yoloo (Laoting) Biotechnology Co., Ltd.	Nitenpyram-Pymetrozine 80% WG	Yoloo Saofei
8	Hebei Veyong Bio-chemical Co., Ltd.	Pymetrozine-Dinotefuran 60% WG	Veyong Jinteng
9	Fujian Sinodashing Biotechnology Co., Ltd.	Bifenazate-Spirodiclofen 36% SC	Manyan
10	Corteva Agriscience (Shanghai) Co., Ltd.	Sulfoxaflor 22% SC	Tefuli
11	Sixf Crop Protection Co., Ltd.	Emamectin benzoate-Chlorfenapyr 12% SC	Dingsi
12	Shaanxi Meibang Pharmaceutical Group Co., Ltd.	Spirotetramat-Pyriproxyfen 30% SC	Chongfeng
13	Yancheng Limin Chemical Co., Ltd.	Thiamethoxam-Fludioxonil-Metalaxyl-M 29% FSC	Nongguanjin
14	Jiangsu Shengjiu Agrochemical Co., Ltd.	Emamectin benzoate-Indoxacarb 16% SC	Shengjiutianwang

Source: CCPIA & CCM

Note: Registration of the product "Tetrachlorantraniliprole 10% SC" is registered by Shenyang Sciencreat Chemicals Co., Ltd., a subsidiary of Sinochem International Crop Care Company Limited

Table 4-3 List of 2020 China Crop Protection Popular Fungicide Brands

No.	Enterprise	Product	Brand
1	Bayer Cropscience (China) Co., Ltd.	Trifloxystrobin-Tebuconazole 75% WG	Nadiwen
2	Corteva Agriscience (Shanghai) Co., Ltd.	Oxathiapiprolin 10% OD	Zengweiyinglv
3	Zhejiang Longwan Chemicals Co., Ltd.	Thiodiazole copper 20% SC	Longkejun
4	Shaanxi Biaozheng Crop Science Co., Ltd.	Metalaxyl-M-Azoxystrobin 0.8% GR	Diteng
5	Hebei Shuangji Chemicals Co., Ltd.	Mancozeb 75% WG	Jinfu
6	Limin Chemical Co., Ltd.	Metam-sodium 42% AS	Liminwoye
7	Jiangsu Pesticide Research Institute Co., Ltd.	Phenamacril-Tebuconazole 480g/L SC	Jingxing
8	Zhejiang Dongfeng Chem. Ind. Co., Ltd.	Saisentong 30% SC	Lipeiling
9	Zhejiang Xinnong Chemical Co., Ltd.	Kasugamycin-Zn-thiodiazole 40% SC	Birui
10	Shandong Kangqiao Biotechnology Co., Ltd.	Pyraclostrobin 25% SC	Yingcai
11	Shaanxi Xidahuate Co., Ltd.	Benzisothiazolinone-Kasugamycin 8% WG	Gelande
12	Jingbo Agrochemicals Technology Co., Ltd.	Kresoxim-methyl 50% WG	Jingbolikang
13	Shandong Sino-agri United Crop Science and Technology Co., Ltd.	Fluopimomide 50% WG	Kanuozi
14	Shijiazhuang Shentai Chemical Co., Ltd.	Pyraclostrobin-Epoxiconazole 35% SC	Kapa
15	Jiangsu Agricultural Cultivation Biochemical Co., Ltd.	Tebuconazole-Prochloraz 37% EW	Sumile
16	Guangxi Beijia'er Biochemical Product Co., Ltd.	Dimethomorph-Cymoxanil 70% WG	Shuangbeike
17	Nantong Shizhuang Chemical Co., Ltd.	Dazomet 98% MG	Longxin

Source: CCPIA & CCM

Table 4-4 List of 2020 China Crop Protection Popular Plant Growth Regulator Brands

No.	Enterprise	Product	Brand
1	Hainan Bosswell Agrochemical Co., Ltd.	Enadenine·Oxyenadenine 0.001% AS	Niannianle
2	ADAMA Anpon (Jiangsu) Co., Ltd.	Ethephon 40% AS	Anmeifu
3	Jiangsu Repont Agrochemical Co., Ltd.	Thidiazuron·Diuron 540g/L SC	Repont Mianyeluoqing
4	Jiangxi New Reyphon Biochemical Co., Ltd.	Gibberellic acid 3% EC	Ruifeng
5	Shaanxi Yitianfeng Crop Science and Technology Co., Ltd.	Sodium nitrophenolate·Diethyl aminoethyl hexanoate 3% AS	Jvxing
6	Chengdu Newsun Crop Science Co., Ltd.	14-Hydroxylated brassinosteroid 0.01% AS	Shengshou
7	Chongqing Yi'er Shuangfeng Technology Co., Ltd.	Choline chloride·1-Naphthyl acetic acid 18% WP	Dipangge
8	Zhejiang Longyou Eastern Anasac Crop Science Co., Ltd.	Cyanamide 50% AS	Youmeiya

Source: CCPIA & CCM

Table 4-5 List of 2020 China Crop Protection Popular Biopesticide Brands

No.	Enterprise	Product	Brand
1	Hainan Zhengye Zhongnong High-Tech Co., Ltd.	Oligosaccharins 5% AS	Zhengye Haidaosu
2	Shaanxi Microbe Biotechnology Co., Ltd.	Pyrimidine nucleoside antibiotics 4% AS	Nongkang
3	North China Pharmaceutical Group Aino Co., Ltd.	Kasugamycin 6% AS	Aino Xunlei
4	Chengdu Green Gold Hi-Tech Co., Ltd.	Azadirachtin 0.3% EC	Yinlian
5	Deqiang Biology Co., Ltd.	Ningnanmycin 8% AS	Liangye
6	Liaoning Wkioc Bioengineering Co., Ltd.	Tetramycin 0.3% AS	Shuanggongmiding
7	Chongqing Greenation Biotech Co., Ltd.	Metarhizium anisopliae CQMa421 8 billion spores/mL OD	Metarhizium anisopliae CQMa421
8	Inner Mongolia Zhongnong Biochemical Technology Co., Ltd.	Matrine 1% SL	Bilv
9	Jiangsu Kwin Group Co., Ltd.	Spinosad 20% SC	Zhanxiangbaisa
10	Shaanxi Kanghelifeng Biotechnology Pesticide Co., Ltd.	Cnidadiin 1% SL	Kangheduoli
11	Chengdu Tepu Biotech Co., Ltd.	Bacillus subtilis 100 million CFU/g CG	Kuyachun

Source: CCPIA & CCM

Table 4-6 List of 2020 China Crop Protection Blockbuster Possible Products

No.	Enterprise	Product	Brand
1	BASF (China) Co., Ltd.	Afidopyropen 50g/L DC	Yingwei
2	Anhui Jiuyi Agriculture Co., Ltd.	Prothioconazole 30% OD	Jiuyaoju
3	Jiangxi Weidi Biotechnology Co., Ltd.	28-Homobrassinolide-Gibberellic acid A4, A7 0.5% SL	Guohaomai
4	Yongnong BioSciences Co., Ltd.	Glufosinate-p 10% SL	Jinbaisu
5	Shandong Runyang Chemical Co., Ltd.	Fluoroglyphofen-ethyl-Glufosinate-ammonium 21% OD	Hongmianyuan
6	Hailir Pesticides and Chemicals Group Co., Ltd.	Flumorph-Cyazofamid 30% SC	Duomitiliang
7	Jinan Zhongke Green Biological Engineering Co., Ltd.	Bifenazate 43% SC	Alagong
8	Shandong Huayang Pesticide Chemical Industry Group Co., Ltd.	Fosthiazate 20% EW	Shenxiandan
9	Shanghai Shengnong Pesticide Co., Ltd.	Beta-cypermethrin-Pyriproxyfen 10% ME	Wendang
10	Jiangxi Zhengbang Crop Protection Co., Ltd.	Abamectin-aminomethyl-Tolfenpyrad 11.8% SC	Weiling
11	Shijiazhuang Nongxin Biotechnology Group Co., Ltd.	Dinotefuran-Thiamethoxam 50% WG	Nongxindana
12	Zhejiang Tonglu Huifeng Biosciences Co., Ltd.	Kasugamycin 6% AS	Wendingna
13	Wuhan Kernel Biotechnology Co., Ltd.	Kasugamycin-Paenibacillus polymyxa KN-03 3% SC	Jinke
14	Anhui Fenge Agrochemical Co., Ltd.	Metalaxyl-M-Azoxystrobin 30% SC	Fengleliujin

Source: CCPIA & CCM

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