

Market Research of Pea Protein Industry in China

**The Third Edition
March 2023**

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1. Introduction

Market Research of Pea Protein Industry in China, finished in March 2023, is CCM's third edition report on China's pea protein industry. This report covers production and market information of pea protein industry as well as forecasts for the coming two years in China.

In this report, CCM will introduce *Market Research of Pea Protein Industry in China* from the following aspects:

- ✓ Pea supply in China
- ✓ Pea protein production, price, export and consumption in China
- ✓ Government policies and guidance regarding to pea protein industry in China
- ✓ Pea protein market forecasts in China

2. Approach for this report

This report is based on data collected with diverse methods, which are listed as follows:

- Desk research

This includes access to published magazines, journals, government, industry and 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, information has been checked with pea protein industry participants and specialists regarding to pea protein production, industrial data, production method, market price, industrial development trend, downstream industry applications and policies. Data collected and compiled are variously sourced from:

- CCM's database
- Published articles from periodicals, magazines, journals, and third-party database
- Statistics from governments and international institutes
- Customs statistics
- Comments from industrial experts on various platforms
- Information from the Internet

- Telephone interview targets

- Key producers
- Key end users
- Key traders
- Industrial associations
- Industrial experts

- Data compilation and crosscheck

Data obtained from various sources have been combined and cross-checked to ensure that this report is as accurate and methodologically sound as possible.

3. Executive summary

Pea protein industry in China, started in 2008 by Yantai Shuangta Food Co., Ltd., a former bean vermicelli company, is still expanding fast. China's capacity of pea protein increased from less than XXX t/a before 2019 to over XXX t/a since 2021, as pea protein producers have been active in expanding their capacity. Besides, some new entrants joined the market seeing rising demand. As of Feb. 2023, there have been XXX pea protein producers (XXX active producers) with total capacity of XXX t/a in China, most of which are located in Shandong Province.

The output of pea protein was on an upward trend before 2022, up from XXX tonnes in 2019 to XXX tonnes in 2021. However, the output decreased to XXX tonnes in 2022, mainly caused by decreased overseas demand, decreased import volume of dry peas and rising price of dry peas in 2021–2022.

Domestic pea protein producers' total grind capability of dry peas reached XXX t/a in 2022. Most of these producers use non-GMO peas from North America, especially from Canada, as the raw material in production. The import volume of dry peas increased from slightly over XXX million tonnes in 2018 to over XXX million tonnes in 2020, but it fell to less than XXX million tonnes in 2021 and declined further to about XXX million tonnes in 2022, mainly because of Canada's production decrease and sharply rising price.

From 2020 to 2022, the ex-works prices of pea protein isolate (PPI) continued to rise. In 2022, annual average ex-works prices of PPI (72%, 75%) and PPI ($\geq 80\%$) reached USD XXX/t (RMB XXX/t) and USD XXX/t (RMB XXX/t), respectively, both hitting a new high in nearly eight years.

In recent years, the consumption of pea protein in China has shown an overall growth trend, but the growth of domestic consumption of pea protein slowed down in 2020–2021, and turned negative in 2022. In 2020–2022, yearly consumption volume of pea protein in China was XXX tonnes, XXX tonnes and XXX tonnes, respectively. Most of the pea protein consumed in China is PPI in health-care food.

4. What is in the report?

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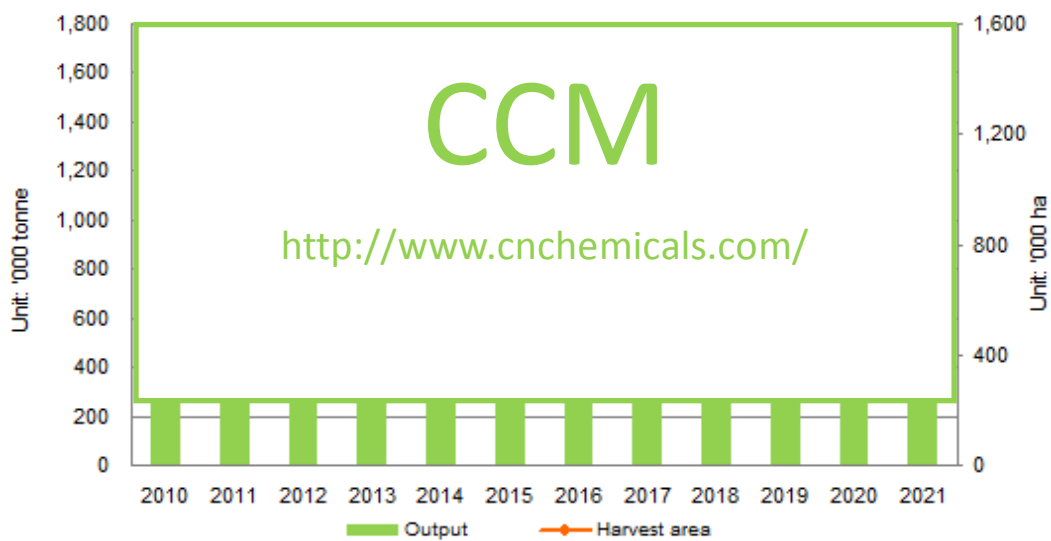
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2 Production of pea protein, 2020–2022

2.1 Supply of pea in China

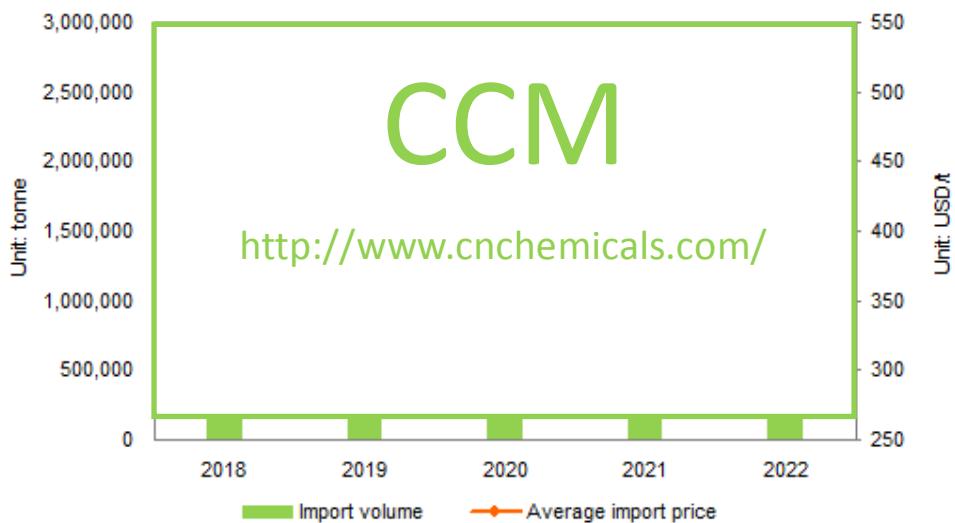
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Figure 2.1-1 Output and harvest area of dry peas in China, 2010–2021



Source: FAOSTAT

Figure 2.1-2 China's imports of dry peas, 2018–2022



Source: China Customs

2.2 Production of pea protein and pea starch

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Table 2.2-1 Capacity and output of pea protein producers in China, 2020–2022

Year	Capacity, t/a			Output, tonne		
	Protein	Starch	Fiber	Protein	Starch	Fiber
2020	XXX	XXX	XXX	XXX	XXX	XXX
2021	XXX	XXX	XXX	XXX	XXX	XXX
2022	XXX	XXX	XXX	XXX	XXX	XXX

Note: Capacity and output of pea protein producers in this table are of their pea protein-starch-fiber production lines.

Capacity and output of their vermicelli units are not included, in which they also produce pea starch.

Source: CCM

Table 2.2-2 Output of pea protein by product grade in China, 2020–2022, tonne

Year	Crude protein (50%, 55%, 60%)	PPI (72%, 75%)	PPI (≥80%)
2020	XXX	XXX	XXX
2021	XXX	XXX	XXX
2022	XXX	XXX	XXX

Source: CCM

...

- Potential capacity

...

Table 2.2-3 Expansion projects and new projects of pea protein in China, as of Feb. 2023

Company	Pea grind capability, t/a	Capacity, t/a			Process
		Protein	Starch	Fiber	
XXXXXXXXXXXXXXXX	XXX	XXX	XXX	XXX	Under construction
XXXXXXXXXXXXXXXX	XXX	XXX	XXX	XXX	XXX
XXXXXXXXXXXXXXXX	XXX	XXX	XXX	XXX	XXX
XXXXXXXXXXXXXXXX	XXX	XXX	XXX	XXX	XXX

Source: CCM

...

2.3 Price of pea protein and pea starch, 2020–2022

- Price of pea protein, 2020–2022

...

Table 2.3-1 Ex-works prices of pea protein and pea starch, 2020–2022

Year	PPI (72%, 75%)		PPI (≥80%)		Pea starch	
	RMB/t	USD/t	RMB/t	USD/t	RMB/t	USD/t
2020	XXX	XXX	XXX	XXX	XXX	XXX
2021	XXX	XXX	XXX	XXX	XXX	XXX
2022	XXX	XXX	XXX	XXX	XXX	XXX

Source: CCM

...

Table 2.3-2 Market price range of pea protein by product grade, 2022

Grade	Protein content, g/100g	RMB/kg	USD/t
Crude protein	45.0 ≤ X < 65.0	XXX–XXX	XXX–XXX
PPI	70.0 ≤ X < 80.0	XXX–XXX	XXX–XXX
	80.0 ≤ X < 90.0	XXX–XXX	XXX–XXX
	90	XXX–XXX	XXX–XXX
	95.0 and above	XXX–XXX	XXX–XXX

Note: Crude protein here refers to feed grade protein.

Source: CCM

2.4 Major pea protein producers

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Table 2.4-1 List of food grade pea protein producers in China, 2022

No.	Company	Abbr.	Location	Status 2022	Capacity 2022, t/a		
					Protein	Starch	Fiber
1	Yantai Shuangta Food Co., Ltd.	Shuangta Food	Shandong	Active	XXX	XXX	XXX
2	XXXXXX	XXX	XXX	Active	XXX	XXX	XXX
3	XXXXXX	XXX	XXX	XXX	XXX	XXX	XXX
...	XXXXXX	XXX	XXX	XXX	XXX	XXX	XXX
Total					XXX	XXX	XXX

Source: CCM

...

Figure 2.4-1 Capacity distribution of pea protein in China, 2022



Source: CCM

2.4.1 Yantai Shuangta Food Co., Ltd.

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- Production and financial performance of Shuangta Food

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Table 2.4.1-2 Capacity and output of pea products of Shuangta Food, 2019–2022

Year	Capacity, t/a			Output, tonne		
	Pea protein	Pea starch	Pea fiber	Pea protein	Pea starch	Pea fiber
2019	XXX	XXX	XXX	XXX	XXX	XXX
2020	XXX	XXX	XXX	XXX	XXX	XXX
2021	XXX	XXX	XXX	XXX	XXX	XXX
2022	XXX	XXX	XXX	XXX	XXX	XXX

Source: CCM

...

3 Export analysis of pea protein from China to the US, 2022

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Table 3-1 Export volume of pea protein from China to the US, 2022

Month	Export volume, tonne
January	XXX
February	XXX
March	XXX
April	XXX
May	XXX
June	XXX
July	XXX
August	XXX
September	XXX
October	XXX
November	XXX
December	XXX
Total	XXX

Source: China Customs

Table 3-2 Exporters of pea protein from China to the US, 2022

No.	Exporter	Export volume, tonne
1	XXXXXX	XXX
2	XXXXXX	XXX
3	XXXXXX	XXX
...	XXXXXX	XXX
...	XXXXXX	XXX
...	XXXXXX	XXX
Others		XXX
Total		XXX

Source: China Customs, CCM

...

4 Consumption of pea protein, 2020–2022

4.1 Consumption of pea protein

...

Figure 4.1-1 Consumption of pea protein and its growth rate in China, 2020–2022



Source: CCM

Table 4.1-1 Consumption of pea protein in China by product grade, 2020–2022, tonne

Year	Crude protein (50%, 55%, 60%)	PPI (72%, 75%)	PPI (≥80%)	Total
2020	XXX	XXX	XXX	XXX
2021	XXX	XXX	XXX	XXX
2022	XXX	XXX	XXX	XXX

Source: CCM

4.2 Application fields of pea protein

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Table 4.2-1 List of major end users of pea protein in China

No.	Producer	Product	Industry
1	XXXXXX	XXX	XXX
2	XXXXXX	XXX	XXX
3	XXXXXX	XXX	XXX
...	XXXXXX	XXX	XXX

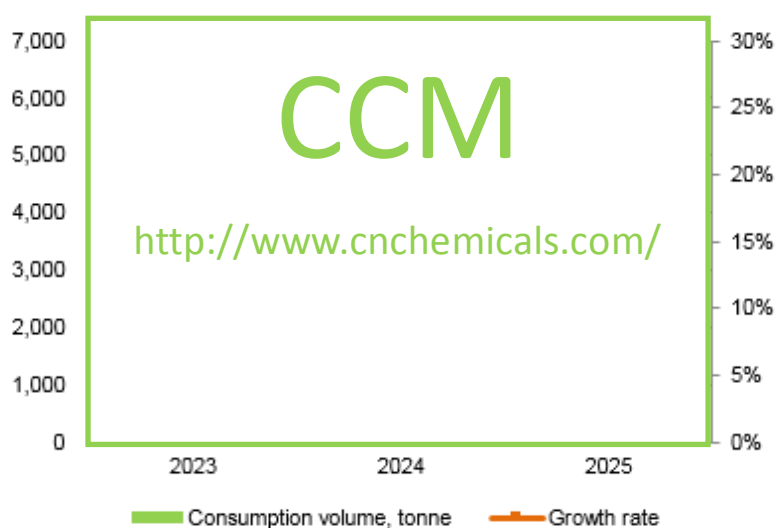
Source: CCM

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6 Forecast on pea protein industry, 2023–2025

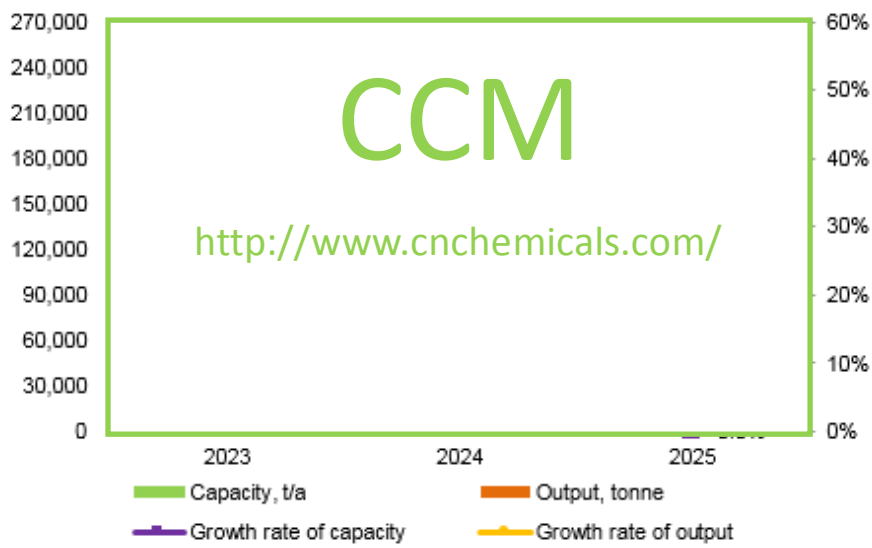
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Figure 6-1 Forecast on consumption of pea protein in China, 2023–2025



Source: CCM

Figure 6-2 Forecast on China's pea protein capacity and output, 2023–2025



Source: CCM

If you want more information, please feel free to contact us

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