

Amid the nuclear waste crisis, China's most magical place "turns" into seafood

Huang Kun • 2023-09-09 09:34:46

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On the afternoon of August 24, Japan officially launched a plan to discharge nuclear wastewater into the sea, discharging 7,800 tons of seawater that had been directly in contact with the reactor core of the Fukushima Daiichi Nuclear Power Plant into the Pacific Ocean through a 1-kilometer underwater tunnel.

Although it will take 240 days for the nuclear waste to reach China, negative sentiment towards all kinds of aquatic products has already arisen in China. Sales of various imported ingredients in supermarkets have collapsed, the flow of people to Japanese food stores has dropped significantly, and Chinese anchors who live-streamed distant-water fishing on social platforms have suffered unwarranted disasters, boycotted and even cyberbullied. Human fear of the ocean has reached its peak.

However, at this moment, China is magically "producing" aquatic products from the deepest part of the Eurasian continent, thousands of kilometers away from the ocean and covered with deserts and Gobi.

Recently, the news of Xinjiang's bumper seafood harvest has become a hot topic. Salmon, tilapia, white shrimp, Australian crayfish and other products from Xinjiang that were only seen in the past will not only be sold across the country, but will also be sold to Russia, Singapore and other countries.

According to CCTV News, the triploid rainbow trout raised at the salmon base in Kalasu Township, Nileke County, Ili Kazakh Autonomous Prefecture, has been included in the National List of Famous, Special and New Agricultural Products by the Agricultural Product Quality and Safety Center of the Ministry of Agriculture and Rural Affairs. This year's output is expected to reach 6,000 tons;

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Image source: Photo Network

The golden trout, salmon and Siberian sturgeon farmed in cold water in Kizilyer Village, Kashitashi Township, Hotan County, have been served on the tables of many local hot pot restaurants and grilled fish restaurants.

The Australian freshwater lobsters, commonly known as "Australian crayfish", cultivated at the Australian freshwater lobster breeding base in Bazhagemi Town, Maigaiti County, are plump and full-bodied, weighing up to 130 grams, and are the "new favorite" in the current aquatic product market;

In a rice-crab breeding base of a company in Kuleteqi Village, Kan Township, Chabuchaer County, farmers are busy catching the "king of freshwater shrimps" *Macrobrachium rosenbergii*;

更夸张的是，临近吃蟹季节，新疆阿勒泰地区一牧场有限责任公司螃蟹养殖基地产出的今年第1批螃蟹，正在准备分拣、打包后将销往江苏南京市场。不少网友看到“新疆螃蟹销往长三角”的标题后，都在怀疑是不是看错了……

400毫米等降水线之后的西北诸省，一直是教科书上的半干旱区、干旱区，这个大多数人印象中和“水”绝缘的地方，如今却出产了种类丰富的水产，在这背后，大西北地区蓬勃兴起的基建对自然条件的改造，以及农业科学方面的投入和进步，超出想象。

Relying on the increasingly mature ecological intensive breeding model and logistics conditions in the country, the model of developing cold water aquaculture in high-altitude areas in the northwest region using the natural advantages of glacier meltwater is becoming increasingly mature. A typical example is the triploid rainbow trout breeding in Nileke County mentioned above.

作为伊犁地区的三大冷区之一，尼勒克县基本没有酷暑，环绕天山的喀什河流淌着天山冰川雪水，水深6米以下的水温常年保持在10℃以下，这为冷水鱼的生长创造了优质的自然条件。

However, due to its remote location and backward industries, these advantages have not been discovered for a long time.



上市数据		Industry Report
N long link	381.00	
C无线	181.00	Cons
C combination	245.01	
*ST Baoli	0.11	
Mengcao	3.16	
Ecology		Huayi Broth
+0.48		20.08%

bringing opportunities for local industrial development.

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According to the Norwegian Seafood Council, China's total salmon consumption was about 29,000 tons in 2011, and reached 90,000-100,000 tons in 2019, a three-fold increase in seven years. It is also expected that China's salmon consumption will reach 240,000 tons in 2025, more than doubling in a short period of time.

However, this amount is less than 200 grams per person per year. If we compare it to Japan, which is also in East Asia and consumes 500 grams per person per year, the market demand still has room to grow three times. And if we aim to reach the level of more than 5,000 grams per person per year in European countries such as Norway, the growth space is unlimited.

Judging from data from all aspects, China's salmon and trout production has been less than 40,000 tons for a long time.

The rapidly widening gap between supply and demand is a huge historical opportunity for the development of salmon farming in Xinjiang and the Northwest region.

In 2014, Nileke County attracted investment from Xinjiang Yangyang Construction Engineering Co., Ltd. and established the Nileke Branch of Xinjiang Tianyun Organic Agriculture Company in Kalasu Township. It invested 50 million yuan to build the first cold-water fish breeding base in the reservoir area of Wenquan Hydropower Station. At that time, it planned to breed 8 million salmon and trout fingerlings each year and produce 15,000 tons of commercial salmon and trout annually; the annual output value reached 750 million yuan, and the average annual profit could reach 150 million yuan.

Judging from subsequent development, this project has played a huge role in promoting local rural revitalization and guiding agricultural modernization.

At the beginning, the base was mainly built around the cultivation and breeding of salmon, but it soon extended to the upstream and downstream of the industry, gathering a modern breeding industry chain that includes research and development, incubation, breeding, processing, logistics, sales, and surrounding leisure agriculture, ecological tourism and other links.

In the upstream research and development link, the base not only has its own professional cold-water fish breeding research and farming team, but also continues to deepen cooperation with scientific research institutions such as China Telecom, the Institute of Fishery Machinery and Instruments of the Chinese Academy of Fishery Sciences, and the Xinjiang Uygur Autonomous Region Fisheries Science Institute, to jointly tackle key problems and achieve complementary advantages and strong alliances.

中游，基地先后投资2200万元和6000万元建设了三文鱼初级加工厂和精深加工厂，自动化无菌三文鱼加工线，多种加工及包装方式，从生产到加工都有HACCP认证和BAP认证，保障食品安全。

As for the downstream, as early as 2018, Nileke County started selling its products in physical stores in Beijing, Shanghai, Fujian, Guangdong, Urumqi, Aksu, Yining City, Korla and other places. Now it is spread across domestic sales platforms such as CR Vanguard, AEON Supermarket, and JD Fresh, and is also exported to Russia, Malaysia and other countries.



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In 2016, Tianyun Company proposed a poverty alleviation model of "leading enterprise + professional cooperative + poor households", and absorbed 609 registered poor households with interest-free loans, each of which invested 10,000 yuan to establish a win-win cooperative. In the first three years, each of the 609 poor households could receive a dividend of 3,000 yuan each time. In the next two years, they enjoyed a fixed dividend income of 15% of the total paid-in capital each year.

In 2022, the company held its last annual dividend distribution meeting, and 609 households received dividends for the fifth time. The company distributed a total of 7.308 million yuan in guaranteed dividends, and each household received a dividend of 12,000 yuan, which exceeded the investment capital of that year.

At the same time, the base also tilts its employment towards local farmers and herdsmen. According to Guangming Daily, local farmers and herdsmen account for more than 60% of the company's total employees, and more than 140 farmers and herdsmen have "transformed" into new fishermen at the foot of the Tianshan Mountains, with most of them earning more than 4,000 yuan a month.

On a larger scale, through the expansion of brand benefits, regional leisure, tourism and entertainment industries are developed on the basis of aquaculture, which radiates and drives the deep processing of other advantageous and characteristic agricultural products such as dryland wheat and tree-dried apricots in surrounding townships. The salmon base in Nileke County has enabled thousands of farmers and herdsmen to increase their income.

At present, the company has fully participated in the construction of the Rural Revitalization Industry Integration Development Demonstration Park in Nileke County. It plans to achieve an output value of 3 billion yuan and create more than 10,000 new jobs by 2025 through the construction of the entire salmon industry chain, thereby driving farmers and herdsmen to continuously increase their income and become rich.

从具体经验来看，在西北地区建设现代水产养殖业，要靠密集的技术投入来弥补产业基础和地理区位上的缺陷。

The deepwater cages and seedling cultivation cages of the Nileke County salmon base are all located in the deep water area of the canyon. They are surrounded by mountains and are rarely visited by people. The nearest production facilities are 6 kilometers away.

在这种情况下，天蕴公司建设了在线监测系统、生产过程管理系统、综合管理保障系统、公共服务系统组成的信息化管理体系。

The online detection system includes an online water quality monitoring subsystem and a meteorological station; the production process management system includes an automatic feeding system, a lifting system, an underwater robot and a production process monitoring system; the comprehensive management system includes a handheld management system and a production operation management system; the public service system includes an experimental demonstration



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By realizing real-time online monitoring and precise control of the breeding process, the informationization, automation and intelligence level of the breeding base has been greatly improved, the production cost has been reduced, the labor productivity, resource utilization and management efficiency have been improved, and the quality grade and market competitiveness of aquatic products have been improved, which is worth learning.

Overall, the salmon base in Nileke County is just a microcosm of Xinjiang's vigorous development of modern aquaculture in recent years. According to public information, at least nine places in the autonomous region have formed large-scale aquaculture bases, providing high-quality and reliable aquatic products for people across the country.

新疆水产养殖地及特色产品	
地点	特色产品
克孜勒苏柯尔克孜自治州阿图什市	罗非鱼、南美对虾、斑节虾、青蟹等
伊犁哈萨克自治州尼勒克县	三文鱼
喀什地区麦盖提县	澳洲淡水龙虾
和田地区和田县	金鲈鱼、三文鱼、西伯利亚鲟鱼
博尔塔拉蒙古自治州赛里木湖	高白鲑
吐鲁番市鄯善县	罗非鱼
巴音郭楞蒙古自治州博湖县	草、鲢、鳙、鲤、鲫、赤鲃、池沼公鱼等
阿勒泰地区福海县	白斑狗鱼、贝加尔雅罗鱼、河鲈、梭鲈、鲤鱼、鲢鱼等冷水鱼及螃蟹、蚌等
伊犁哈萨克自治州察布查尔锡伯自治县	罗氏沼虾
博尔塔拉蒙古自治州精河县	南美白对虾

数据来源：公开资料

According to the "China Aquaculture Industry Market Outlook and Investment Strategy Planning Analysis Report" by the Prospective Industry Research Institute, aquaculture has become one of the fastest-growing industries in China's agricultural structure. In 2020, the national aquaculture output was 52.242 million tons, a year-on-year increase of 2.86%.

It is predicted that the output value of China's aquaculture industry will increase at a CAGR of about 4% from 2021 to 2026 and will exceed 1.29 trillion yuan in 2026.



数据来源：前瞻产业研究院整理

Faced with the biochemical crisis brought about by the discharge of nuclear wastewater from Japan into the sea, the development of the traditional aquatic industry may be interrupted. At the current juncture, fully exploring the potential of Xinjiang's aquatic products to create unlimited possibilities is an effective path.



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