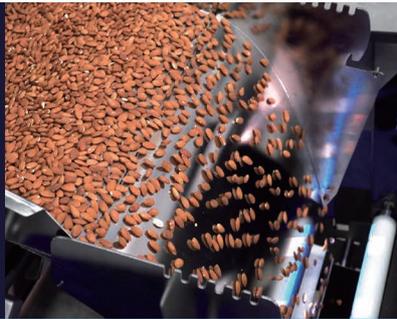


# CHINA NUTS AND ROASTED SEEDS INDUSTRY

PHASE IV 2022 TOTAL NINETY THREE ISSUE

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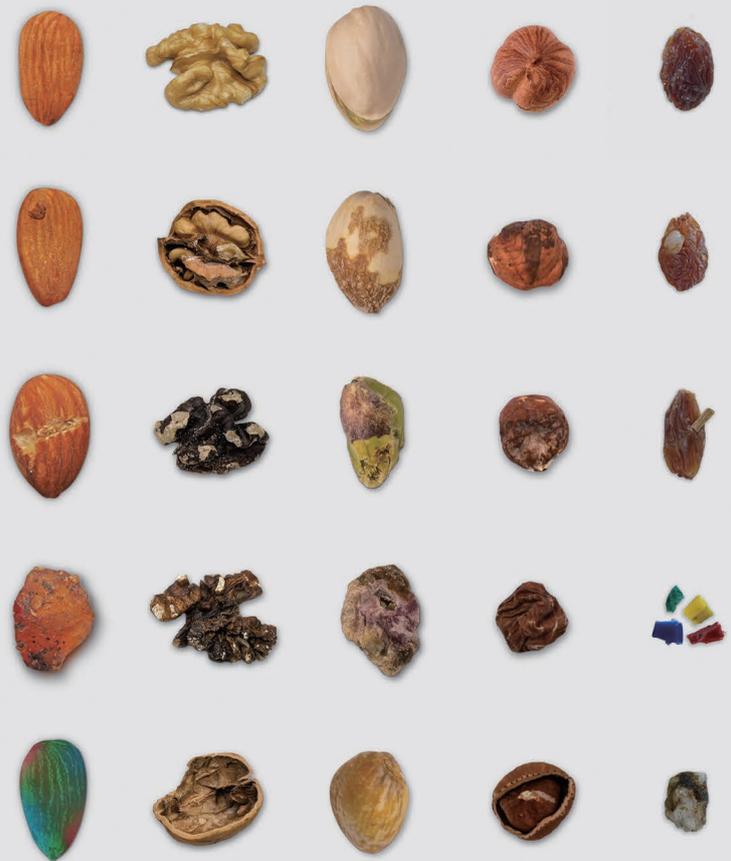
  
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# CHINA NUTS AND ROASTED SEEDS INDUSTRY

PHASE IV 2022 TOTAL NINETY THREE ISSUE  
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**Editor-in-Chief:** Weng Yangyang

**Editor(s):** Carol Yang

**Editor in Charge:** Zhang Lei

**Art Editor:** Lu Fei

**Assistant Editor:** Qiu Jing

**Address:** 3330B Qixiang Hotel,  
No. 12 Maliandao South Street,  
Xicheng District, Beijing

**Post code:** 100073

**Tel:** 010-63344578

**Email:** cnfiec@csnc.cn

**Weibo:** http://weibo.com/  
u/3215965745

**website:** www.csnc.cn

www.chinautexpo.com

**WeChat Public Account:**

Zhongjianheguo

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# A Letter of Invitation for New English Electronic Edition of China Nuts And Roasted Seeds

China Nuts And Roasted Seeds is under the guidance of the Specialized Committee for Nuts and Roasted Seeds of China National Food Industry Association and sponsored by Beijing Zhongjian Heguo Information Technology Service Co., Ltd., <http://www.csnc.cn> and [www.chinanutexpo.com](http://www.chinanutexpo.com). It is currently the only domestic guiding journal for the nuts and roasted seeds industry. To make the world's nuts industry know more about China's nuts and roasted seeds industry, to integrate China's nuts industry into the global nut economic and trade integration, and to cooperate with the global peers for win-win results. To adapt to this new development trend, since April 2020, China Nuts And Roasted Seeds has added an English electronic version to serve as an exchange of information for nut enterprises, the industries and associations worldwide. We are sincerely soliciting contributions from domestic member enterprises, as well as domestic and foreign readers, professional scholars, and nuts and roasted seeds practitioners. The contents and scope of the contributions are concluded as follows:

- I. Popularize the performance and experience of the enterprise and its leaders (chairman and general manager) (please attach the working photos of the enterprise and leaders at the same time);
- II. Introduction to working attainment and experience: workshop management, technology, process, quality, quality management, product development, inspection and other working attainment and experience;
- III. Popularize the latest scientific research achievements of the enterprise (raw

material planting, nutrition, technology, equipment, additives, etc.) and the promotion of new products (in Chinese and English);

IV. Marketing experience and introduction: attainment and experience in warehousing, transportation, wholesale, product sampling, direct selling and terminal markets, business negotiation and contract signing, etc.

V. Solicit the information needed by the enterprise, such as the information consultation on raw material purchase, equipment purchase, talent recruitment, etc.

VI. Put forward the relevant suggestions and opinions to the Magazine;

VII. The members of the Magazine's expert panel shall provide 2-3 professional manuscripts each year, which may be prepared by themselves or recommended.

VIII. Manuscripts may be provided in both Chinese and English. Welcome to contribute and recommend your manuscript! Requirements for manuscript solicitation: manuscript shall be in the form of electronic document.

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Tel.: 010-63344578 63344031

Fax: 010-63344578

Please mark the author's name, work unit, job title, postal code, email address and other personal data for publication and contact.

Editorial Department of China Nuts And Roasted Seeds

## Information Consulting Service Table for China Nuts And Roasted Seeds in Chinese and English

The Chinese and English versions of China Nuts And Roasted Seeds also receive the information consulting services from relevant enterprises and associations at home and abroad. The specific contents are concluded as follows:

I. Information Consulting Service Charge for Chinese Version

1. Consulting Service Price

Category A: RMB 18,000/Page/Year for Single Page (6 Issues of Internal Pages + 1 Issue of the Journal)

RMB 35,000 Yuan/Year for Continuous Pages (6 Issues of Internal Pages + 1 Issue of the Journal)

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Category C: 4-Cover Services (Bimonthly, Six Issues a Year)

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Full Page Position of English Contents: RMB 25,000 yuan/year (4500 yuan/issue)

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II. Information Consulting Service for the English Electronic Magazine

1. Consulting Service Price

Category A: RMB 10,000/Page/Year for Single Page (6 Issues of Internal Pages + 1 Issue of the Journal) (2000 Yuan/Issue)

RMB 15,000 Yuan/Year for Continuous Pages (6 Issues of Internal Pages + 1 Issue of the Journal) (3000 Yuan/Issue)

Category B: Enterprise Special Service: Carry out the special popularization (including pictures, interviews, popularization reports, etc.) in the specific consideration of the needs of the enterprise. Consult the staff of the Association for the specific details.

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Contact

Contact Person(s): Zhanglei

Tel.: 010-63344578, 63344031

Website: [www.chinanutexpo.com](http://www.chinanutexpo.com)

Website: <http://www.csnc.cn/>

# IN FACE OF THE REPEATED UNCERTAINTY OF EPIDEMIC SITUATION

## WHAT CAN THE NUTS AND ROASTED SEEDS ENTERPRISES DO?

The normalization of the COVID-19 epidemic situation has brought a huge survival crisis to every enterprise. In face of the constant challenges, what can the roasted nut and seed enterprises do?

### 1. Balance current operation with long-term strategy

How to solve the current and long-term problems? Focus on current operation, and balance the relationship between current operation and long-term strategy.

The first thing is to transform the current business with as much effort as anyone else secondly, in a completely uncertain environment, the current performance actually depends on two things, organizational efficiency and customer language. If you may have very high efficiency, adjust faster than anyone else, have high execution efficiency and good quality, and in the midst of changes and fluctuations, customers will have many new problems and new demands, and you may solve the customer problems and make customers understand, then you may get the current performance.

Therefore, the roasted nut and seed



enterprises need to do at least two things: Firstly, maintain a certain degree of organizational openness and make a layout for future growth. Secondly, based on this change, enterprises shall be capable to improvise.

### 2. Focus on the Partner's Coexistence

In the past big crisis, whether we may get out depends on whether the roasted nut and seed enterprises have the ability to seek coexisting opportunities for industrial partners and value partners.

From a big tree to a forest, only by employing this ecology may we survive. It's

just a big tree, but it may not survive.

### 3 Rely on the entrepreneurs' Entrepreneurial Willpower

It still depends on the entrepreneurial willpower. The more difficult it is, the more it depends on entrepreneurs.

How can entrepreneurs overcome the crisis during the process of enterprise growth?

Firstly, the entrepreneur itself is the compass in crisis, and it knows how to give everyone a clear direction.

Secondly, most of the time, people will believe that the problem of enterprise growth is a financial problem, a strategic problem or an environmental problem, but in essence, it is actually a problem of Manager's Attitude, that is, whether managers have willpower or not.

Thirdly, if you intend to make a careful and in-depth analysis in a crisis, it is probable to find any possibility.

Fourthly, interact with the environment, give employees confidence and make clear choices.

It's hoped that in the face of the epidemic, we can find the light in the predicament, overcome the epidemic and become the real strong 



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中国坚果炒货协会  
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# GLOBAL DISTRIBUTION LAYOUT STRATEGY RELEASED BY THREE SQUIRRELS



**O**n April 26, Shu Baiyi (screen name), general manager of the Distribution Division, Three Squirrels, shared the latest Global Distribution Layout Strategy of Three Squirrels for the Year of 2022.

Under the transformation and upgrading, how may the distribution of Three Squirrels achieve a new growth? How to plan the distribution products offline?

As pointed out by Shu Baiyi, according to the current development plan, Three Squirrels has determined three major actions of distribution, i.e. global layout of nut gift, promotion of daily sales of individual popular products, and incubation of new distribution business.

For the daily normal sales, Three Squirrels has determined the product matrix with Daily Nuts as the core and snacks as the supplement.

Shu Baiyi reveals that, the distribution business of Three Squirrels will start the key promotion of various channels in China around popular Hong Kong-style dessert - Nai Nai Tian from May, officially launch Shu San Xiang spicy meat products series in July, and launch the annual major product - Daily Nuts from August, which is suitable for more scenes and channels, and will appear on the market in three times respectively, focusing on volume-selling, extremely cost-effectiveness, flavor and small packaging. 

A New Healthy Product  
in Sweet Career

## Xihu Meiyuan - Juiced & Dried Yellow Peach

Traditional Dried Fruit Candied Products



Xihu Meiyuan - Juiced & Dried Yellow Peach



### Dried Fruit Product (new) of New Technology - Juiced & Dried Yellow Peach

- 1. The raw materials come from: The variety of yellow peach crown with natural maturity and stronger original fruit flavor;
- 2. Different from the traditional dried fruit: Vacuum packaging and pasteurization are adopted in the process to lock the original taste and nutrition of yellow peach. The traditional dried fruit is high in sugar and low in nutrition.
- 3. Meet the demand of leisure and consumption with a strong sense of consumption.



### Key Production Points: Low-temperature Thawing Line of Raw Materials



### Key Production Points: Pasteurization, Cooling and Drying



### Key Production Points: Vacuum Packaging



# DRYING TECHNOLOGY AND ADVANTAGES OF THE HAZELNUT DRYER

DRYING EQUIPMENT FOR DRIED FRUITS



The traditional drying method of hazelnut is baking and frying which is time-consuming, labor-intensive and inefficient since there is less quantity manually baked and fried at one time. Baking requires an experienced chef to control the temperature, otherwise it is easy to scorch, thus resulting in bad taste. Using air-energy heat-pump drying equipment for dried fruits to dry hazelnuts may solve the problem that traditional methods can't meet the market demand, and promote the popularization of hazelnut market. In the drying process, the hazelnut dryer, the drying equipment for dried fruits, can strictly and accurately control the temperature and humidity of the air in the drying room, so that hazelnuts are heated evenly and the phenomenon of missing drying or over-drying will be avoided. The dried hazelnuts full of fragrance become incredibly popular among market consumers.

## Hazelnut Drying Process Steps of the Drying Equipment for Dried Fruits

After picking, stack and ferment the hazelnuts with bracts for 1-2 days, knock off the bracts with a stick, remove impurities thereof. The hazelnuts will thus be formed after drying.

1. Fermentation: Stack the harvested hazelnuts for 1-2 days.
2. De-bract: After stacking and fermenting, beat it with a wooden stick to make it de-bract;
3. Impurity removal: Remove impurities such as the fruit bud fragments;
4. Drying: the drying temperature of hazelnuts generally does not exceed 45°C. Because the moisture content of hazelnuts is different, the drying time is different, usually 8 ~ 30 hours.

The advantages of the hazelnut dryer (air-energy drying equipment):

1. Uniform drying with controllable quality: 360-degree hot air circulating, no dead angle in drying room, uniform drying, precise control of temperature, humidity and drying time, unchanged color, nutrition and flavor of dried materials, high effective retention rate of ingredients and good quality of dried materials.
2. Excellent energy-saving effect, and the high utilization rate of heat energy: The waste heat recovery technology is adopted, the drainage is fast, there is no heat loss, the electric consumption is low, and the closed dehumidification does not need to discharge heat to the outside.
3. Programmable control: PLC intelligent touch control screen is adopted, and after the corresponding drying process parameters are set, it may be started and stopped with one key, so no special person is required to take care of it, thus saving labor; PLC console may also store and modify different material drying processes, and may be directly called or modified when necessary.
4. Pollution-free: Set up early warning, use clean energy and electricity, have no combustion in the whole process, do not discharge waste gas contaminants, and do not pollute materials and the environment.
5. Powerful function & multi-purpose: The unit may be used for drying, dehumidification, cold air drying, etc., and may be used for drying and dehumidification of materials in various industries.
6. Less occupied-area and durable equipment: A particularly designed drying room is adopted, which occupies a small area and saves the site cost; the equipment is made of stainless steel, durable and anti-corrosive, and one-time investment will produce long-term benefits.
7. Unlimited use by the weather: It may work 24 hours a day, no matter sunny, cloudy, rainy, day or night, windy or snowy. 

# What innovative products appeared in the sugar substitute industry in 2022?

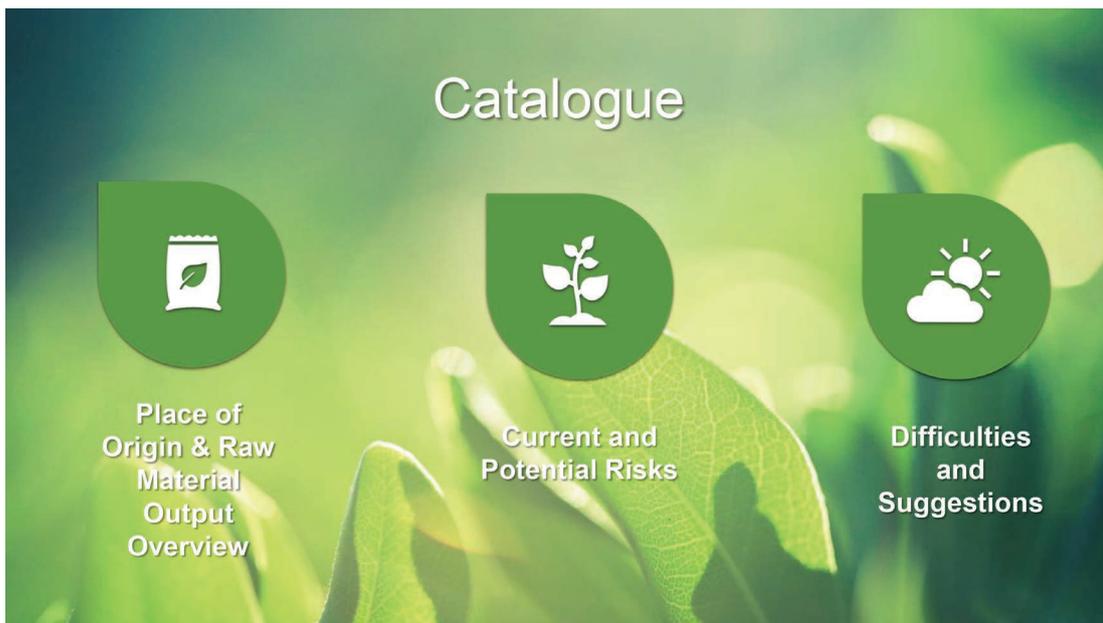
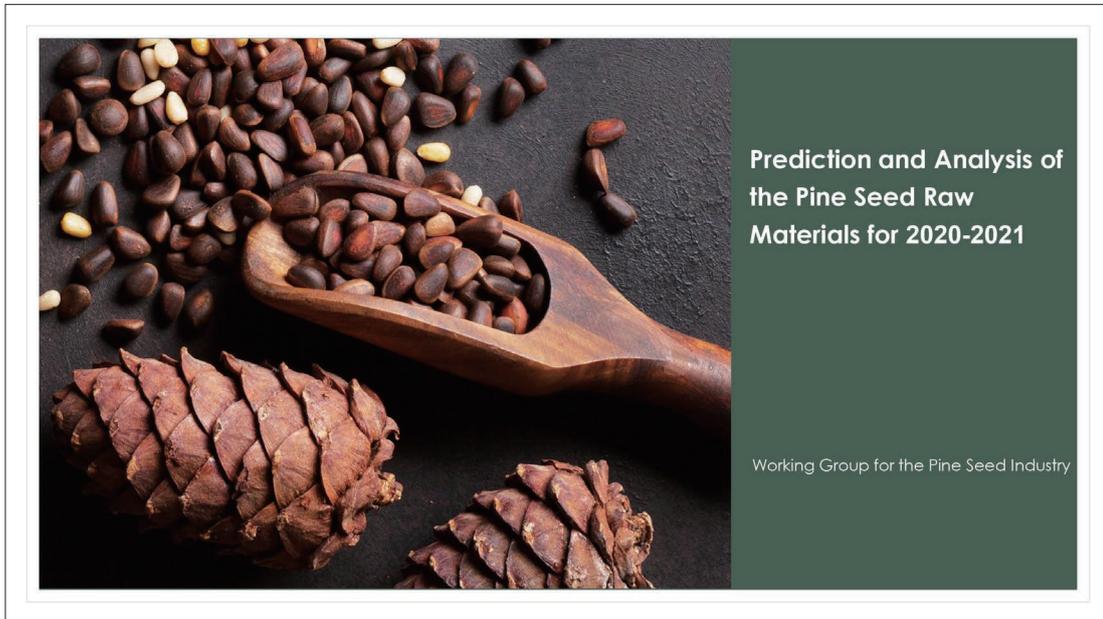


**M**ay 11 is the World Obesity Prevention Day. The Report shows that more than half of the adults in China are overweight or obese. Losing weight is undoubtedly one of the most concerned health problems nowadays.

The upsurge of enthusiasm from Realtimhot Weibo drives not only the sports and fitness industry, but also the sugar reduction industry. People have realized the importance of sugar control for weight loss, and started the way to reduce the sugar. In recent years, the popularity of foods and beverages marked with “low sugar”, “no sugar”, “zero sugar”, “zero sucrose”, etc. in the market has been rising, and consumers have begun to pay attention to the natural zero-calorie sweeteners such as the “erythritol” and “stevia”, which has led to a series of innovations in the sugar substitute industry.

The taste of popular sweeteners is improved. In the main natural sweetener markets, erythritol, stevioside, mogroside and other sweeteners occupy the main markets. According to SPINS data, *Siraitia grosvenorii* has achieved a market growth rate of 20% in 2021, and the most used categories are protein supplements/meal replacements, frozen desserts, nutritional bars and gels; Stevia has achieved a market growth of 15%, with popular categories including protein supplement/meal replacement, refrigerated yogurt and plant-based yogurt, and bottled water at ambient temperature; Sugar alcohols have increased by 3%, and the main application categories include oral care, candy and functional drinks.

Major ingredient companies are still committed to improving these popular sweeteners to further enhance the taste. 



## Place Of Origin Overview



**Place of Origin** *Pinus koraiensis* is distributed in China, Korea and Russia.  
Cedar is mostly produced in Russia and Mongolia.  
*Pinus yunnanensis*, *Pinus armandii* and *Pinus massoniana* all have producing areas in China.

Variety	Place of Origin
<i>Pinus Koraiensis</i>	Russia; North Korea; China
Cedar	Mongolia; Russia
<i>Pinus Yunnanensis</i>	Yunnan
<i>Pinus Armandii</i>	Sichuan; Shanxi; Hubei
<i>Pinus Massoniana</i>	Great Khingan

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# Output Overview

Pine Nut Raw Material Output and Stock Overview (2020 - 2021)

Review of pine seed raw material output in 2020 (unit: Ton)

Country	Year 2020 Beginning Stock	Year 2020 Output	Year 2020 Total Consumption	Years 2020-2021 Ending (current) Stock
Russia	200	17000	16500	700
Korea	200	40000	0	40200
<b>Sub-total</b>	<b>1600</b>	<b>144000</b>	<b>94000</b>	<b>51600</b>

Notes: This data is

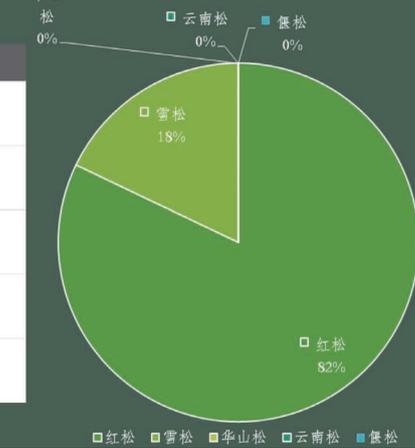
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# Forecasted Output of a Variety of Pine Nuts in 2021

Values of Pine Nuts in 2021

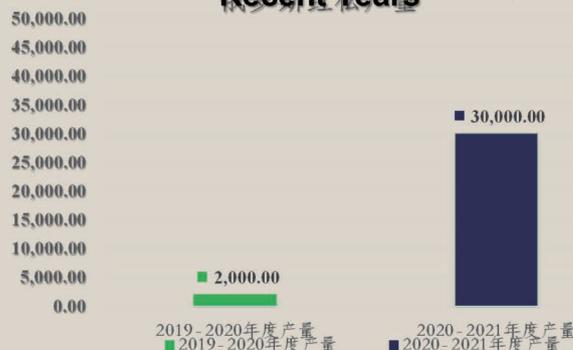
Unit Ton	China	Russia	Korea	Other	Total
Pinus Koraiensis		30000	25000	/	115000
Cedar	/	10000	/	15000	25000
Pinus Armandii		/	/	/	2000
Pinus Yunnanensis		/	/	/	2000
Pinus Pumila	/	/	/	/	/

2021年度松子各品类占比

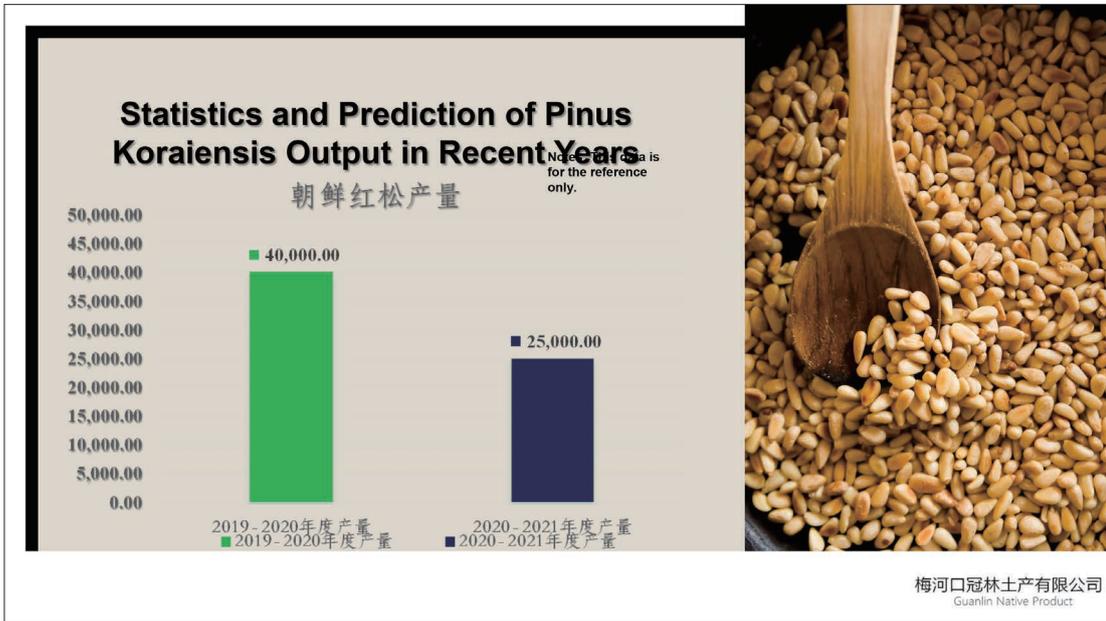


# Statistics and Prediction of Pinus Koraiensis Output in Russia in Recent Years

This data is for the reference only.



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### Natural Risks

- Bumper Harvest Year and Non-bumper Harvest Year**  
Pine seed industry will experience bumper harvest years and non-bumper harvest years. In a bumper harvest year, its output is large, its supply is abundant, its purchase is easy, and its market price is low; In the non-bumper harvest year, its output is low, the supply of goods is small, the purchase is difficult, and the price of raw materials is high
- Risk of Natural Disasters**  
Pine nuts mostly grow in such areas with dense forests, so the natural output

### Current and Potential Risks



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### International Trade Environment Risks

- Impact of International Relations**  
It is inevitable that international trade is affected by international relations. For enterprises with international trade business, the current international situation is complex and volatile, and with the impact of the epidemic, all enterprises need to handle the same carefully.
- Impact of Import and Export Tariffs**  
Both sales and raw material import will be affected by the change of tariff policy. The enterprises shall pay attention to the tariff changes in time and timely adjust the timing of purchase and shipment.
- Impact of Exchange Rate Fluctuations**  
The change of foreign exchange rate before and after quotation or contract signing is an unavoidable risk in foreign trade business. Enterprises may adopt flexible monetary payment methods, and keep abreast of the change of exchange rate to prevent accidents.



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# INDUSTRY CHAIN RAW MATERIAL



## Difficulties

Although the year 2021 is the medium-bumper harvest year of pine nuts, there will be the following difficulties due to the epidemic situation:

1. It is difficult to purchase foreign raw materials.
2. Transportation costs and other costs rise.
3. Affected by the economic environment, the sales may also be affected.

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## Suggestions

1. New enterprises shall enter the pine nut market this year after careful consideration.
2. Although 2021 will be a bumper year and the output will be higher than that in recent years, due to the epidemic situation, there is still a risk of transit goods, and the price fluctuation will be relatively large.



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# Happy time with Bailian

Fujian Bailian Industry Co., Ltd. was founded in 1980s and experienced a high speed growth in 1990s. High holding the philosophy of quality, honesty, efficiency and stability, the company has grown from a trading company into a industrial and trading enterprise that engages in food development, production, sales, real estate investment and high-end property management.

Speaking of food, we specialize in producing leisure food of nuts and roasted seeds, conserved fruit, meat products, etc. With a variety of selection, distinctive favor and high quality, our products receive great welcome from customers. "Bailian melon seeds", as our main product, enjoys good reputation and market share within and beyond Fujian province.

In recent years, our company has been expanding in the northern agricultural park. The move would change the managerial pattern of the company by raw material processing to raw material production. At the same time, following the strategy of "strengthening the primary business and developing appropriately in multi industries", our Company entered the fields of real estate, property, finance, etc. Bailian Group of industry layout will gradually appear.

Our Company will continue to adhere to the business concepts of "people-oriented and keep improving" to enhance communication with all ranks of society to achieve sincere cooperation and mutual development.



**Fujian Bailian Industry Co., Ltd.**

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# **Ecological Cultivation Techniques for the High Output of Chinese Torreya**



## ***1 Ecological Land Preparation***

1.1 Selection of Greening Land

1.2 Soil Preparation

## ***2 Standardized Greening***

Greening time is divided into spring and autumn i.e. February-March and November-December.

## ***3 Organic Fertilization***

3.1 Fertilization of Seedlings

3.2 Fertilization of Grown Trees

## ***4 Refined Management***

4.1 Scarifying and Weeding

Seedlings shall be covered with straw in the year of planting to prevent weeds from growing. In the second year after afforestation, pine trees are weeded twice a year from April to May and August to September, only weeds in the fixed-planting holes are removed, and shrubs and herbs outside the fixed-planting holes are kept.

4.2 Root Management

4.3 Irrigation and Drainage

4.4 Artificial Pollination

4.5 Fruit Retention Measures

4.6 Shaping and Pruning

## ***5 Diversified Prevention and Control***

5.1 *Erwinia Carotovora*

Prevention and control method: Clear the diseased and disabled fruits in Chinese torreyia forest and destroy them in a centralized way; in late April and beginning of May, 5% bacterial toxin 800-fold solution shall be sprayed to the crown for control.

5.2 *Helicobasidium Compacum*

Prevention and control method: Deep turning during soil preparation, disinfection with quicklime or 10% copper sulfate solution; Stop interplanting susceptible crops; Use 500 times of 80% zineb wettable powder or 400 times of 64% antivirus alum wettable powder to irrigate for control.

5.3 *Pythium Uhinum*

Prevention and control method: Choose sandy loam soil with ventilation, sunshine, high terrain, deep soil layer, good permeability and convenient irrigation and drainage to build nursery, and before



sowing, water holes with 0.1% formalin solution (formaldehyde solution) to disinfect the soil; the seedbed was diluted with 50% carbendazim in 1500 water, sprayed or root-irrigated, once every five days, for three times in a row.

5.4 Tiny Moths

Prevention and control method: From late March to beginning of April, when the new shoots and fruiting branches are not fully spread, the 1st control shall be carried out, and 10% imidacloprid wettable agent 2 500 times liquid or chlorpyrifos emulsion 1 000-1 200 times liquid shall be sprayed; at the beginning of June, the 2nd control shall be carried out, with the same amount of control chemicals and pesticide application as the 1st control.

5.5 Termites

Prevention and control method: Trapping and killing termites on the ant road with a special trapping and killing bag.

5.6 Underground pests (*agrotis ypsilon*/grub)

It is mainly larvae that harm Chinese torreyia seedlings. Larvae will bite off the stems of seedlings near the ground, causing the whole plant to die, resulting in lack of seedlings and broken ridges. The Onset Period Is from March to August  
Prevention and control method: 1 000 times of 50% phoxim emulsion shall be used for control; Bait materials such as the stir-fried cakes and sugar cane shall be mixed with 10% imidacloprid wettable powder or 40% chlorpyrifos, and the ratio is approximately 10:1 

## **In 2022, the Sown Area of Sunflower Seeds in Ukraine May Drop to the Lowest Level in 13 Years**

The Report released by APK-Inform on Tuesday shows that the sown area of sunflower seeds in Ukraine may drop to the lowest level in 13 years in 2022 which is approximately 4.2 million hectares, a YOY decrease of 38%; the output of sunflower seeds was 9.2 million tons, down from 16.6 million tons in the previous year. It is estimated that in 2022/23 (September of the current year to August of the following year), the output of sunflower oil in Ukraine will be 5.3 million tons, and the export will be 4.85 million tons.



## **Myanmar Suspends the Export of Peanuts and Sesames**



Global New Light of Myanmar reported on May 12 that the Trade Department under the Ministry of Commerce of Myanmar issued an announcement on May 9, suspending the export of peanuts and sesames to safeguard the domestic market supply in Myanmar. Except black sesame, the export of peanuts, sesame seeds and other oil crops through border trade ports will be suspended. The relevant regulations will come into effect on May 9 2022.

## **Russia Will Extend the Ban on Sunflower Seed Export and Increase the Export Quota of Sunflower Oil**

Russia Will Extend the Ban on Sunflower Seed Export and Increase the Export Quota of Sunflower Oil

Russia's Interfax news agency quoted the words of Oksana Lut, the first Deputy Minister of Agriculture of Russia on Friday that, Russia would extend the ban on sunflower seed export and increase the export quota of sunflower oil.

As pointed out by him, Russia will not cancel the export ban on sunflower seeds at the end of August. At present, Russia prohibits the export of sunflower seeds from April 1 to August 31 to protect the supply of domestic sunflower oil producers.



## The Eurasian Economic Union Has Imposed Three-year Zero Tariff on Some Nuts



On May 12, 2022, the Council of Eurasian Economic Union decided to reduce the tariff rate of shea butter, sorbus and some other types, seeds and drupes from 5% to 0% for three years. The products involved are mainly used for the production of exotic stearic acids and the stearic acid is a module in the production of cocoa butter substitutes, various margarine and cosmetics. “the approved measures are aimed at import substitution projects in the whole cycle of nut and seed processing within the Eurasian Economic Union, which will be able to provide the essential raw materials for the oil and confectionery industry of the European Economic Union at reliable prices.” Said by VaagnKazaryan, director of Customs Tariff and Non-Tariff Supervision Department of EEC. Other bills of the Committee will also be amended as appropriate.

## Cashew Export Improves Vietnam’s Regional Economy

“Before the cashew harvest season every year, we may receive many orders, which are ordered by major e-commerce platforms, and the products are sold to China, Europe and other markets.” Pointed out by Amo, a farmer from Binh Phuoc, Vietnam. According to the Vietnamese media reports, the output of cashews in Vietnam continued to grow in 2021, and the export earned USD 3.65 billion. At present, Vietnam’s cashew exports account for approximately 80 % of the global cashew exports.



## Buenos Aires Stock Exchange(BAGE) lowered Argentina's sunflower seed production forecast to 3.3 million



Rules on the Quality and Labeling of Fruits and Vegetables Revised in U.K.

On May 27, 2022, the Department for Environment, Food and Rural Affairs issued an announcement to revise the rules on the quality and labeling of fruits and vegetables. The main contents are concluded as follows: (1) Specific label contents of fruits and vegetables: Quality level, full text of country of

origin, variety, weight or quantity, net weight, name and address of growers, or authorized code mark; (2) Specific quality requirements: Integrity, no defects, cleanliness, no pests, no moisture, no peculiar smell, etc.; (3) The following products are exempted from specific labels and quality requirements: products used in industrial processing, wine preparation and processing or dried products; Pueraria, bitter almond, Brazil nut, sour bean, cashew, hot pepper, cocoa bean, taro, edamame, ginger, artichoke, Australian Macadamia, pine nut and all shelled nuts, nutmeg, olive, peanut, hickory nut, pistachio, saffron, sago, sweet corn, sweet potato, turmeric, wild mushroom, yam bean and roots with high starch content. These rules comes into effect from the date of promulgation.

# *The Benefits of* Eating Sesame Seeds Often



Although sesame is small, it has many benefits.

Sesamin may protect cardiovascular and liver and promote the cholesterol metabolism.

It will help stabilize blood pressure and prevent the fatty liver.

It also helps to prevent atherosclerosis.

Although sesame is small, it has a lot of nutrition.

Sesame has been a kind of healthy food since ancient times. In its small body, it contains abundant vitamin E, vitamin B1, linoleic acid, iron, protein and other nutrients. Compared with other nutrients, sesame has the highest content of vitamin E.

Vitamin E has a good effect on improving blood circulation and promoting metabolism, and has the magical effect of preventing aging. Unsaturated fatty linoleic acid, which may also regulate cholesterol, is also an indispensable nutrient to keep young. 

---

## Taking Appropriate Peanut *As "substitute Food" Has Many Benefits*

**R**ecently, the American Journal of Clinical Nutrition, an authoritative journal in the international nutrition field, published a study pointing out that peanut can significantly improve the reversal rate of metabolic syndrome without gaining weight by replacing refined cereal products with equal energy.

substitute some staple foods and help reverse metabolic syndrome.

substitute some red meat to stabilize blood sugar.

Slow down the increase of triglyceride level.

An experimental study by an American nutrition professor shows that, with the same overall diet, people who eat peanuts have a 32% lower triglyceride level in their blood after meals than those who don't eat peanuts. 



# *Nutritional Value of* Pumpkin Seeds



Main health effects of pumpkin seeds:

**1. They help to reduce the “three highs” and the protective effect on cardiovascular system.**

Pumpkin seeds contain unsaturated fatty acids and vegetable proteins. Unsaturated fatty acids can emulsify and decompose blood lipids, improve the blood circulation, improve the serum lipids, remove peroxides produced in the body, reduce the content of cholesterol and neutral fat in blood, reduce the retention time of fat in blood vessels, prevent thrombosis and reduce arteriosclerosis.

**2. The health care effect of pumpkin**

**seeds on kidney and reproductive system.**

Pumpkin seeds are also very prominent in protecting kidney and human reproductive system. Similar to natural hormones, they may not only help prevent the prostate diseases in men, but also help postpartum lactation in women.

**3. Pumpkin seeds have a good insecticidal auxiliary effect.**

Pumpkin seeds contain a lot of pumpkin seed amino acid, which may kill *Schistosoma japonicum* larvae well, but can not kill adults, but may make them atrophy and degenerate. Pumpkin seeds are also a non-toxic and harmless

insect repellent, and they also have an auxiliary effect on patients with ascariasis, tapeworm, ginger worm, hookworm disease and enterobiasis.

**4. They will prevent and reduce the occurrence of lithiasis.**

Pumpkin seeds are rich in nutrients such as phosphorus, amino acids, unsaturated fatty acids, vitamins and carotene. These elements may help prevent the occurrence of kidney calculi.

**5. They will protect the stomach and prevent the gastrointestinal diseases.**

The pectin contained in pumpkin seeds may also help protect the gastric mucosa from the stimulation of rough food and improve the ulcer healing. Pumpkin seeds contain ingredients that may promote the bile secretion, accelerate the gastrointestinal peristalsis and help food digestion. Pumpkin seeds are rich in fatty acids, which may effectively promote the intestinal peristalsis, help clear the bowels, clean the intestines and relieve constipation. Pumpkin seeds contain a lot of dietary fiber, which may promote the peristalsis of gastrointestinal system and effectively prevent the constipation.

In addition, Chinese medicine believed that pumpkin seeds benefit from edema, which may eliminate the symptoms of postpartum edema in women. 益母草



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### Coated Nuts Roasting Line



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Multi layer fan cooler



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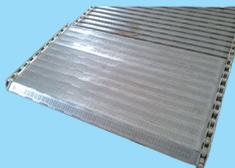


Stainless steel three-layer chain plate air drying cooling line

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