

## **Discussion on Pollution-free Pig Breeding Technology**

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**Abstract:** To do a good job of pollution-free pig breeding in an all-round way, to promote pollution-free breeding technology, we should select breeding farms, do a good job in site layout, strictly standardize the introduction procedures, isolate and observe the recently introduced pig varieties, and at the same time, pay attention to improving feeding conditions for live pigs, standardize feed management, ensure the safety of drinking water for live pigs, and avoid bacterial infection problems. In addition, it is necessary to reasonably deal with the problem of pig manure in order to improve the recycling rate of resources.

**Keywords:** Pollution-free pigs; Breeding technology; Application and promotion

In pig breeding work, the local conditions should be combined with scientific site selection, layout of the site, standardize the source of introduction, constantly improve the feeding conditions for pigs, ensure the safety of drinking water for pigs, improve the sanitary conditions of pig farms, strengthen the strength of disease prevention and control, and deal with the problem of pig manure.

### **1. Development significance of pollution-free pig breeding technology**

#### **1.1 Conducive to promoting the export of agricultural and livestock products**

Our country has a huge amount of export products, of which agricultural and livestock products account for a relatively high proportion. In recent years, due to the increase in the export volume of our country's agricultural and livestock products, the foreign exchange for exports has continued to rise, and the current agricultural and livestock products are facing certain challenges in export. In international trade, environmental management is relatively strict, and the exported products are required to be truly green and pollution-free. In this environment, only by promoting the improvement of the quality of agricultural and livestock products can we better meet the requirements of market development and realize the development of the breeding industry. healthy growth.

### 1.2 Conducive to establishing a new image of national environmental protection

Environmental protection and reducing the impact on the ecological environment are the development goals of various countries. Different countries have established legal systems related to environmental governance. International organizations have also formulated a series of international conventions to restrict each country through legal means. Reduce the impact on the ecological environment. As a permanent member of the United Nations, our country has certain responsibilities and obligations in protecting the environment. Therefore, in the process of comprehensively developing the production of pollution-free agricultural and livestock products, it can help the country establish a good image of environmental protection.

### 1.3 Promote the rapid growth of added value

Extending the industrial chain, increasing added value, and moving towards sustainable development are the basic requirements for agricultural development in our country. The masses love it, and the market demand is relatively large, which promotes the improvement of the economic benefit level of pollution-free products. In the path of sustainable development, it is required to achieve a comprehensive improvement of economic and ecological benefits, and to take into account the development of both.

## **2. Pollution- free pig breeding methods**

### 2.1 Reasonable selection of breeding sites

The selection of the site needs to ensure smooth ventilation and normal lighting. Generally, a certain safety distance should be maintained between the farm and the slaughterhouse. The safety distance should not be less than 2km, and the safety distance from the house should not be less than 1km. Pig processing, production areas and areas with a large flow of people need to be fully isolated, establish a disinfection area, install corresponding disinfection equipment at the breeding gate, and scientifically divide the excrement discharge area and the feed area. During the construction of the site, ensure the cleanliness of the ground and the water source used meets the national quality requirements.

### 2.2 Standardize the use of veterinary drugs

Farmers need to improve the disease resistance of pigs and do a good job in immune protection

In actual farming, the use of drugs that are not allowed in some countries is strictly prohibited, and the risk occurrence rate in farming is controlled within a reasonable range. In the process of drug procurement, it is necessary to conduct a comprehensive inspection of the supplier's qualifications, and farmers need to use antibiotics and other related drugs in accordance with national requirements to reduce drug side effects.

### 2.3 Strengthen epidemic prevention and control

In order to better manage the vehicles in the breeding area, strengthen the supervision and management of non-staff personnel to prevent personnel from entering and leaving at will. Before entering the farm, farmers need to change the corresponding work clothes to reduce the spread of viruses and bacteria. In addition, it is strictly forbidden to breed with other livestock in the breeding area, and it is not allowed to introduce live pig breeds from other farms.

### 2.4 Ensure scientific feeding

During the feed feeding process, the content of microorganisms in the feed should be controlled within a reasonable range and meet the relevant national requirements as much as possible, and some spoiled and moldy feed should not be fed. In the process of feed procurement, it is necessary to observe the smell and color of the feed, and conduct a comprehensive inspection of the supplier's qualifications to ensure the quality of the feed. In the process of making feed, it should be ensured that the interior of the workshop is clean and tidy, and the feed is fresh. If there is deterioration or mildew, it should be dealt with in time. In the breeding process, in order to truly realize scientific breeding, it is necessary to strengthen the construction of responsibility management mechanism, scientifically divide the work responsibilities of breeding personnel, determine the scope of responsibilities, and implement them in strict accordance with relevant requirements. In actual work, it is necessary to regularly arrange professional training for breeders, form a corresponding work system, and combine the qualification mechanism with

remuneration, so that breeders maintain a correct working attitude, strictly demand themselves, and standardize their behavior. In the breeding process, it is necessary to operate in strict accordance with the breeding standards and requirements. Only in this way can we ensure the rationality and scientificity of pig breeding and reduce unnecessary problems.

#### 2.5 Regular sanitation and disinfection

Breeding staff need to disinfect and clean the sewers of the farm on a regular basis, and disinfect various utensils. Relevant personnel need to be fully disinfected before entering the farm, and those without disinfection are not allowed to enter the farm. Before entering the farm, you need to wear corresponding protective clothing and go through a special channel. Before the pigs are released, they also need to be fully disinfected to ensure the quality and safety of the pigs.

#### 2.6 Clean up the manure of the pig farm in time

In the process of pig breeding, a large amount of manure will be produced, and these manures contain certain toxic and harmful substances. If they are discarded at will, it will inevitably have a certain impact on pigs and the environment, and the quality of pork cannot be guaranteed. In this case, it is necessary to regularly clean up the inside of the pig farm, remove the manure in time, and ensure the quality of pork by using modern manure treatment technology. Before building a pig farm, it is necessary to build a professional manure treatment pipeline internally, connect the interior of the farm to a centralized manure treatment tank, and do a good job of preventing leakage. By establishing different treatment systems, the pressure of handling manure inside the farm is reduced, and the impact on the surrounding environment is reduced. If it is a farm of a certain scale, professional wastewater treatment facilities and waste treatment systems need to be installed to ensure the stability and safety of system operation.

#### 2.7 Feeding management

The breeding and management of pollution-free pigs determines the results of pollution-free pigs. Therefore, in the process of feeding and management, the following points need to be done: First, control the quality of feed and the amount of

additives used. The feed should meet the dietary habits and requirements of pollution-free pigs, and its raw materials and additives should meet the safety standards proposed by the state, and meet the requirements of nutritional comprehensiveness and variety. The feed is easily absorbed by pollution-free pigs and reduces fecal discharge. Feed should not blindly emphasize sensory effects, and add substances that will affect the quality of feed at will. It is not allowed to provide some agglomerated or peculiar feed for pollution-free pigs, and the use of feed should meet national safety regulations. Second, in the process of introducing breeding pigs, the quality control of breeding pigs should be done well. It is necessary to introduce from breeding farms with breeding pig business license or pollution-free pig production license, and quarantine the imported breeding pigs to ensure their health. After a period of isolation and observation, breeding can be carried out in accordance with the procedures, and breeding pigs cannot be introduced from the epidemic area. The third is to manage by circle and group. The classification and sorting of live pigs need to be done in advance, and the classification and management of live pigs at different stages and different characteristics can not only reduce costs, but also achieve efficient use of materials and other resources. Scientific isolation should be carried out between different pig houses to prevent the spread of diseases or epidemics. As an "all-in, all-out" model, this method can effectively improve production efficiency, facilitate management, and prevent the spread of diseases in a large area.

## 2.8 Expand promotion channels

In order to realize the promotion and development of pollution-free pig breeding technology, various methods should be adopted to let people know about pollution-free pig breeding technology. Government departments need to organize and arrange farmers to establish pollution-free pig breeding bases, carry out technical exchange activities on a regular basis, and under the guidance of government departments, attract more farmers to participate in them, learn more professional knowledge from them, and promote pollution-free pig breeding technology. promotion. In terms of breeding individuals, farmers need to actively learn advanced breeding techniques and technologies, strengthen international exchanges, summarize

work experience, introduce advanced breeding management models and technologies, and improve pollution-free pig breeding technology from the root promotion level.

In the process of building a pig farm, a high and dry terrain should be selected in advance. The terrain should have good drainage conditions and be in a leeward and sunny position. The nearby water sources must be clean, the transportation should be convenient, and there should be no large-scale disease pollution problems. In the introduction of live pigs, the principle of self-propagation and self-support should be adopted. After the pig farm is built, it is necessary to pay attention to improving the sanitary conditions of the site, optimize the feed feeding plan, ensure the safety of drinking water, do a good job in epidemic prevention of pig diseases, and scientifically deal with the problem of manure.

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