

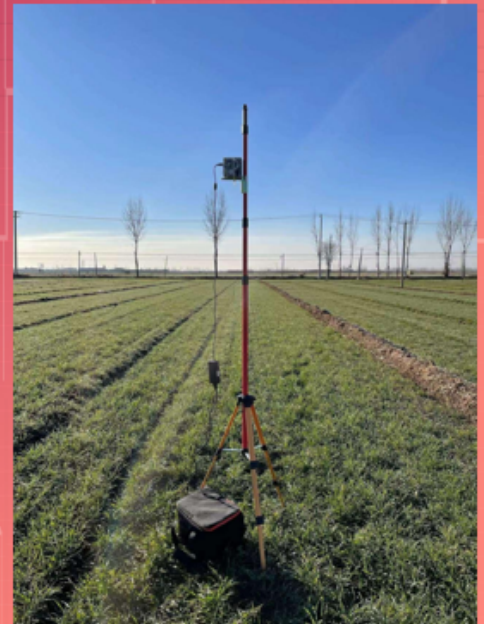


## Newsletter No.18

# Cattle Farming and Processing of Dairy and beef products

- **Questionnaire survey**

Through the way of questionnaire survey, understand the public demand for milk consumption, know the milk production faced with various kinds of pollution hazards and related factors.





- **Field trips**

A trip to Tianjin, Hebei, Jiangsu and Guangxi to communicate with cattle farm staff, understand the development status of dairy farming in China, and sort out the technical and equipment problems encountered in pollution prevention and control.



- **Field test**

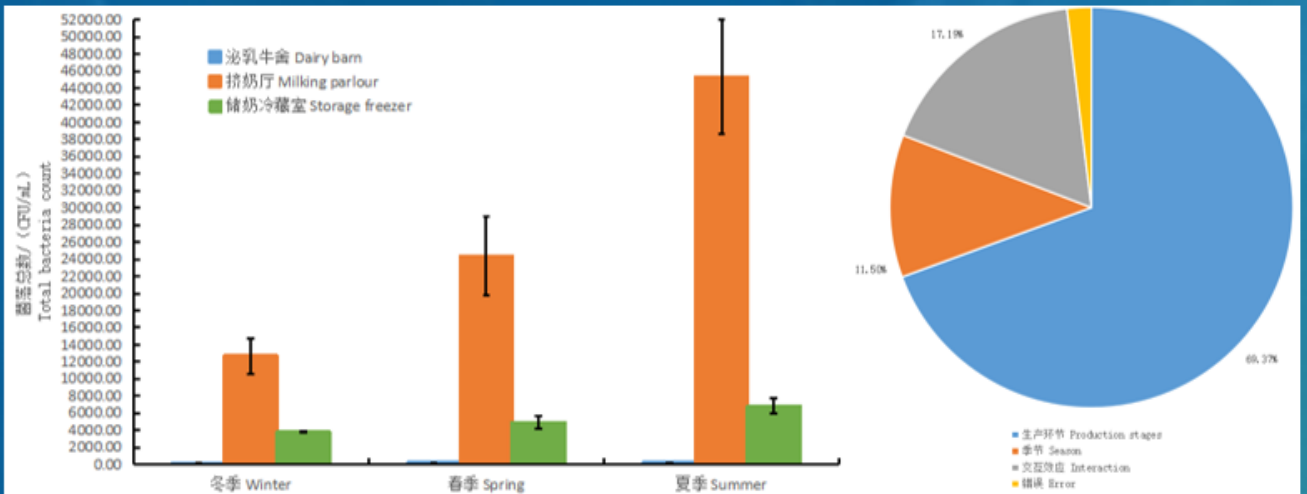
According to the biological, chemical and environmental pollution hazards, a number of measurement or detection indicators were selected, and a large number of parameter data were obtained through field tests in Tianjin, Hebei, Jiangsu and Guangxi experimental cattle farms.





## • Data analysis

In the microbial and antibiotic contamination test of raw milk, *E. coli* and Penicillin G were selected to sample and detect in three sampling locations, including cattle house, milking hall and milk storage tank, in the summer season, transition season and cold season, and analyze the growth and decline law of each pollutant. The results showed that milking parlour was the link of aggravated pollution.



In the monitoring test of environmental pollutants in cattle farms, carbon dioxide, ammonia, PM2.5 and other indicators were selected, and continuous measurements were carried out from January to April at indoor and outdoor sites to study the concentration changes of each pollutant. The results show that there is a certain concomitant relationship between indoor and outdoor changes.

