Rabbit Production and Organization in China

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## 1. Overview of Chinese rabbit industry

### Production and Product Export in 2008

<table>
<thead>
<tr>
<th>Product</th>
<th>Production</th>
<th>Export</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rabbit meat</td>
<td>660,000 tons</td>
<td>10,340 tons</td>
</tr>
<tr>
<td>Rabbit wool</td>
<td>12,000 tons</td>
<td>1,264 tons</td>
</tr>
<tr>
<td>Rabbit skin</td>
<td>50,000,000 pieces</td>
<td>&gt;95%</td>
</tr>
</tbody>
</table>
The Ratio of Meat, Angora and Rex Rabbit in China

- Meat rabbit: 60
- Angora Rabbit: 25
- Rex rabbit: 15
Annual amount of rabbit meat (ten thousand tons)
### The amount of rabbit slaughtered in different provinces of China in 2007 (000)

<table>
<thead>
<tr>
<th>Rank</th>
<th>Province</th>
<th>Slaughtered</th>
<th>Rank</th>
<th>Province</th>
<th>Slaughtered</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sichuan</td>
<td>174,984</td>
<td>17</td>
<td>Guangxi</td>
<td>2,510</td>
</tr>
<tr>
<td>2</td>
<td>Shandong</td>
<td>83,389.9</td>
<td>18</td>
<td>Shaanxi</td>
<td>2,128.3</td>
</tr>
<tr>
<td>3</td>
<td>Henan</td>
<td>39,922.3</td>
<td>19</td>
<td>Xinjiang</td>
<td>2,082.8</td>
</tr>
<tr>
<td>4</td>
<td>Hebei</td>
<td>30,259</td>
<td>20</td>
<td>Jilin</td>
<td>1,700</td>
</tr>
<tr>
<td>5</td>
<td>Jiangsu</td>
<td>28,499.1</td>
<td>21</td>
<td>Guizhou</td>
<td>1,097.5</td>
</tr>
<tr>
<td>6</td>
<td>Chongqing</td>
<td>19,928.8</td>
<td>22</td>
<td>Beijing</td>
<td>645.1</td>
</tr>
<tr>
<td>7</td>
<td>Fujian</td>
<td>15,284</td>
<td>23</td>
<td>Shanghai</td>
<td>623.2</td>
</tr>
<tr>
<td>8</td>
<td>Zhejiang</td>
<td>7,588.5</td>
<td>24</td>
<td>Hubei</td>
<td>615.7</td>
</tr>
<tr>
<td>9</td>
<td>Shanxi</td>
<td>4,886.9</td>
<td>25</td>
<td>Yunnan</td>
<td>454.7</td>
</tr>
<tr>
<td>10</td>
<td>Hunan</td>
<td>4,647.7</td>
<td>26</td>
<td>Gansu</td>
<td>329.6</td>
</tr>
<tr>
<td>11</td>
<td>Inner Mongolia</td>
<td>4,646.8</td>
<td>27</td>
<td>Tianjin</td>
<td>300.1</td>
</tr>
<tr>
<td>12</td>
<td>Liaoning</td>
<td>3,137.5</td>
<td>28</td>
<td>Hainan</td>
<td>221.7</td>
</tr>
<tr>
<td>13</td>
<td>Guangdong</td>
<td>2,823.5</td>
<td>29</td>
<td>Ningxia</td>
<td>118.6</td>
</tr>
<tr>
<td>14</td>
<td>Jiangxi</td>
<td>2,730.2</td>
<td>30</td>
<td>Qinghai</td>
<td>68.2</td>
</tr>
<tr>
<td>15</td>
<td>Anhui</td>
<td>2,675.6</td>
<td>31</td>
<td>Tibet</td>
<td>0</td>
</tr>
<tr>
<td>16</td>
<td>Heilongjiang</td>
<td>2,573.2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Percentage of rabbit meat in whole meat production of China from 1999-2006
Average rabbit meat consumption

507 g/person in 2008
Fresh rabbit meat, rabbit head and frozen rabbit meat

Cooked rabbit meat
rabbit meat barbecue
Cooked foreleg (spicy)
convenient food with flavor
convenient food with flavor
Rabbit wool textile machine and product
Rex rabbit fur product
Rex rabbit fur product
Rex rabbit fur product
# Rabbit farm size in China

(Shandong Province in 2002)

<table>
<thead>
<tr>
<th>Number of rabbit</th>
<th>Number of meat rabbit farms</th>
<th>Percentage</th>
<th>Number of Angola rabbit farms</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 ~ 99</td>
<td>9960</td>
<td>80.98</td>
<td>29117</td>
<td>90.88</td>
</tr>
<tr>
<td>100 ~ 299</td>
<td>1522</td>
<td>12.37</td>
<td>2285</td>
<td>7.13</td>
</tr>
<tr>
<td>300 ~ 499</td>
<td>479</td>
<td>3.89</td>
<td>484</td>
<td>1.51</td>
</tr>
<tr>
<td>500 ~ 999</td>
<td>242</td>
<td>1.97</td>
<td>106</td>
<td>0.33</td>
</tr>
<tr>
<td>1000 ~ 2999</td>
<td>66</td>
<td>0.54</td>
<td>41</td>
<td>0.13</td>
</tr>
<tr>
<td>3000 ~ 4999</td>
<td>15</td>
<td>0.12</td>
<td>7</td>
<td>0.02</td>
</tr>
<tr>
<td>5000 ~ 9999</td>
<td>12</td>
<td>0.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10000 ~ 49999</td>
<td>4</td>
<td>0.03</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>12300</td>
<td>100</td>
<td>32040</td>
<td>100</td>
</tr>
</tbody>
</table>
Large scale rabbit farms
medium scale rabbit farms
Small scale rabbit farms
2. Rabbit Organization in China

2.1 Science Research

Sponsors in China

- Ministry of Agriculture
- Ministry of Science and Technology
- Local government
Science research unit in China

University: teaching and science research

- China Agricultural University
- Shandong Agricultural University
- Hebei Agricultural University
- Sichuan Agricultural University
- Yangzhou University
- Shenyang Agricultural University
- Tianjin Industrial University

Institute: science research

- Sichuan Academy of Grassland Science
- Jiangsu Agricultural Academy of Science
- Zhejiang Agricultural Academy of Science
- Sichuan Academy of Animal Science
- Shandong Agricultural Academy of Science
- Anhui Agricultural Academy of Science
Main project in recent years

• 2008—National Rabbit Industry Technology System(nycytx-44)
Science Research field

Genetics and selection

generic resource analysis of local rabbit
New breed or line breeding
Local rabbit
Selective rabbit breed
Nutrition

Effects of nutrient on nutrient utilization, production performance, relative blood traits and immunity in different period and for different breed (meat, wool, Rex rabbit)

Overcome the effect of mycotoxin on feedstuff quality

New raw feedstuff resource development

Relationship between nutrition and disease
Growth trial

Digestive metabolic trial

Slaughter trial

Molecular biology trial
Reproduction

Artificial insemination in countryside
Repeated mating after delivery
Synchronization methods
Cycle reproduction mode
All-in and all-out production mode
Heat stress effect on reproduction
Disease control

Clostridium perfringens (Type A)
Rabbit haemorrhagic disease (RHD)
Rabbit epidemic meteorism disease
Signs of rabbit epidemic meteorism disease
Housing and environment
a. Rabbit house types in China

Greenhouse used by small farm
open sheds

open-front rabbit house

Closed rabbit house with plastic film as window sash
Closed Rabbit house with windows
open sheds with concrete cages
b. Developing water air-conditioner

Cooling in summer and supply heating in winter, integrated in one equipment;

Supply fresh air when house is closed;
2.2 Rabbit Organization

The rabbit branch of animal husbandry association of China

The expert committee

The rabbit profession committee of animal husbandry and veterinary science association of many province such as Shandong, Sichuan, Fujian, Hebei.

An organization contains many members of university, institute and farms.
3. Problems and Prospect

Reality and promotion for rabbit farming

- 7% Arable land
- 22% population
- Large amount of grassland resources
- Large amount surplus rural labor

Strategy:
- Developing grain-saving livestock industry
  (rabbit farming)

- Feed

large amount of grassland resources
large amount surplus rural labor.
promoting development of rabbit industry

- Agricultural policies
- Scientific research
- Land supply
- Financial Support
- legislation

State Law on Farmers’ Professional Cooperatives

Rabbit farming cooperatives
conclusion

• Rabbit farms are turning from scattered small-scale individual ones into medium and large scale centralized ones, but the standardization level is still generally low.
• Lack of good meat and rex rabbit breed for normal farms
• Feedstuff quality control and raw material process
• High productive efficiency (reproduction and disease control)
• With fast development of Chinese economy, Chinese rabbit industry will has a bright future
Thank you!