Current Status of Livestock Production and the Use of Advance Reproductive Biotechnologies in Lao PDR

Khampasong Ninnasopha

E-mail: song_kkk@yahoo.com

Department of Livestock and Fishery Faculty of Agriculture (Nabong Campus) National University of Lao
Introduction

- The Laos PDR is a landlocked county located in the heart of the Southeast Asian region, with a geographical area encompassing 236,800 square kilometers.
Laos livestock are characterised by a variety of traditional breeders:
In the Laos PDR, livestock production is an important sector of economy, and improving livestock productivity has been recognized as one of the most important national goals to foster sustainable growth of economy and reduce rural poverty and food insecurity.

Role demand food safety and get income to national and internationals.

The improve livelihood in smallholder and rural area.

Improved local livestock genetic.
Type of Livestock production

- Livestock production local cattle
- Raising natural and free range
- Small holder framers system
- Livestock production scientific and natural system.
- Private
Livestock production in Laos

<table>
<thead>
<tr>
<th>Species</th>
<th>Population (million) head</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cattle</td>
<td>1,691,800</td>
</tr>
<tr>
<td>Buffalo</td>
<td>1,185,000</td>
</tr>
<tr>
<td>Goats and Sheep</td>
<td>471</td>
</tr>
<tr>
<td>Pig</td>
<td>2,793,680</td>
</tr>
</tbody>
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Require to improve productivity

- Knowledge to improve livestock production

- Feed resources and disease management

- Livestock breeds improvement-genetic resources management

- Marketing of livestock products
Livestock breeds improvement-genetic resources management

- The development artificial insemination in local cattle
- Development of embryo transfer
- Synchronization
- The improve animal breeding genetic in herd animal framers
- Improvement pasture and feed nutrition for animals
Problem and challenge of Livestock in Laos

- Cattle have been produced by natural breeding in my counties
- The Lao’s limited participant
- Lower technologies and can not capacity in the management
- Lack of specialized personnel ET
Livestock Production farmer
EMBRYO TRANSFER AND OTHER REPRODUCTIVE BIOTECHNOLOGY

• ET is still at developing stage in Lao PDR.
• Embryos and technical manpower in ET is still experimental and no other biotechnologies have been carried out in Lao PDR.
Problem and limited

- Lost and stolen animals
- Participant not enough
- Not enough staff technical biotechnologies
- Animals poor fertility
Problems of livestock production by farmers

- Lack livestock production management
- There is no animal health service provider
- Lack of vaccine availability
- Smallholder farmers and extension workers have limitation of knowledge and understanding of the animal health
Technical problems

- Almost all livestock (cattle and buffalo) are local breed with low growth rate. Breeding
- Variety has limited.
- Feed shortage occurs for 2 - 3 months, especially from April to May. The feed is usually low in protein content.
- Livestock raising system by famers were free range, therefore their animal always have disease problem.
- The grazing land is limited and also farther from their village
Thank you for your attention