

Goat Breeding Lesson

I. Techniques of goat breeding

1) The plan of goat raising

1. The budget is made ready for expense.
2. There are human resources and techniques for raising goats.
3. Prepare the goat house.
4. Prepare the medicine for protection and cure.
5. Some money must get ready for feeding.
6. The ground resources and clean water resources are got ready for raising goats.
7. The important point is the goat breed.

2) The study about the goat breed

- 1- Srer Nge (in Khmer) goat breed (small goat breed, its weight= 30 kg)
- 2- Buo (in Khmer) goat breed (big goat breed , its weight= 50 kg)
- 3- Hybrid goat breed (medium-sized goat breed, its weight= 45 kg)
- 4- Change female goats out when we have raised them for three or four years.

▪ **Choosing the goat breed**

A. Female goat breed:

- Choose hybrid goat breed.
- Those goats have good health.
- Choose goats having broad hips and big vagina.

B. Stud goat breed:

- Choose hybrid goat breed including good health.
- Choose stud goat having both sides of equal testicles.

- The male goat's four legs are strong.
- The goat's activities are fast in moving.

3) Building the goats' house

- 1- Build the goat house on the high ground.
- 2- Don't build their house far from the cottage or the house.
- 3- Don't tie goats in the jungle to avoid a snake biting.
- 4- Build it along the sunlight (the place with enough sunlight)
- 5- The lattice is floored by board.
- 6- Height of board-floored bed for sleeping goats is 0.8 metre to 1 metre.
- 7- There is a leaned ladder to climb up safely.
- 8- Awnings are used for protection the wall and the end piece of roof when raining.
- 9- The goat house has to have the sunlight to shine inside, too.
- 10- Size of goat-house building, height= 2.7 metres, length= 3 metres, width= 2.7metres.

Size of goat-house building above is, we can put three goats or four goats. But, if we want to raise many goats, we must build the long goat house is longer than size of goat house above. Size of building goat house for 15 to 20 small goats, height= 2.8 metres, length= 4 metres, width= 3metres. That is it depends on the budget that we have, too.

4) Feeding goats

There are many tree leaves that we can provide the feed for goats as follows,

- Green grass or white leadtree, Kanthom Thet (in Khmer) leaves.
- Snay (in Khmer) branches
- Tamarind leaves
- Monkey pod leaves
- Dork Tok (in Khmer) leaves

- Bran and banana tree
- Cassava leaves or bulbs or yam leaves or dried yam bulbs
- Green branches of Sesbania javanica (Snor Ach Mann in Khmer)

5) Water for goat drinking

Water is very important for goats' health; it decreases the temperature, makes goat dung soft and enables their organs quick to grow up.

- There is a water trough or a bucket for using to put water.
- Provide the clean water for goat drinking without chemical elements.
- Also use liquid of E.M for goats drinking

6) Methods of taking care

1. Clean the goat house every day.
2. Don't take goats to eat grass where anyone sprayed the poison medicine.
3. There is a place for keeping goat dung well.
4. Cut goats' nails and pick insects out.
5. Scatter the quicklime in the goat house and wash it.
6. Wash often goats, too.

7) Methods of protection

1. Give injection to protect scarlet fever disease (by veterinarian)
2. Give water with energy and plenty of mine to goats for examples, licked cake or liquid of E.M.

A. Symptoms of disease of goats

- Scarlet fever
- Swollen stomach.
- Have a cold and flu.

- Symptoms of goat are lack of vitamin D and mine energy; this causes goat to have weak legs and often hit its head on the ground many times.
- Bitten-dog problem, causes as tetanus disease, often convulse and make goat health weak and become thin.

B. Elements for cure tetanus disease

- Fresh bulb of giant taro= 0.3 kg
- Bror Khlob or Bror Krab (in Khmer) grass= 0.3 kg
- Banana fruit= 0.3 kg

How to make elements

- Boil three kinds of elements with three bowls of water and decoct it for a long time until remaining only one bowl of water.
- Leave the decocted-element water to get cool.
- Force goats to swallow or drink the medicine water (enter into goat mouth) in the morning, in the evening and in the noon, nearly 0.5 litre in net for one time and must cure this maybe for one week; it is good or can be also more than one week.

C. Cure via symptoms of diseases

- *Medicine for swollen stomach*: use Siang Pure oil (Kola oil in Khmer) for rubbing on the abdomen (can use Khmer medicine or Chinese medicine)
- *Warm body or have a cold*: use Brocold medicine (science medicine), take one pill for an adult goat in the morning and in the evening, take a half of a pill for a small goat in the morning and in the evening. When it gets better, stop to use.
- If a goat has scalar fever disease, must consult with vet in the village.
- If a goat has diseases such as lack of vitamin or mine substance and make legs and organs weak, must contact with veterinarian.

- When being poisonous with chemical substance, a goat often has blood flowing through its mouth or anus and its legs are weak and stop to find the feed to eat.

The points of symptoms of diseases above, must contact with village veterinarian or experts in the Kamrieng district agriculture office.

II. Techniques of making licked-cow cake or licked-goat cake

1) There are some elements for mixing as follows,

| No | Elements for mixing | Quantity and weight |
|----|---|---------------------|
| 1 | Bran | 35 kg or 17.5 kg |
| 2 | Molasses or palm sugar | 20 kg or 10 kg |
| 3 | Cement | 5 kg or 2.5 kg |
| 4 | Pieces of salt (roast and crush) | 7.5 kg or 3.75 kg |
| 5 | Quicklime | 5 kg or 2.5 kg |
| 6 | Clay or Crab (in Khmer) ground or hill ground (crush) | 20 kg or 10 kg |
| 7 | Oyster shell or clam shell (bake until become ash) | 2 kg or 1 kg |
| 8 | Scoria of metal (roast and crush) | 1 kg or 0.5 kg |
| 9 | Em vine (boil and decoct) | 0.2 kg or 0.1 kg |

2) How to mix elements together

1. First crush firm elements such as hill ground, oyster shell, and scoria of metal.
2. After crushing all firm elements, put them into a big bowl and take quicklime, cement, molasses, bran, crushed salt, and ash flour of oyster shell to combine completely together.

3. Make its shape as long balls and a long ball weighs about three kilograms so that goats are easy to lick.
4. Take long balls of elements to dry them up at least for four to five days.
5. Finally, tie and hang those balls of elements in the goat house or goat shop so that goats lick every day.

Licked-cow cake or licked-goat cake above can help to reduce weak legs because of diseases such as lack of mine substance and lack of vitamin or lack of calcium substance or other diseases in the goats' organs.

III. Techniques of making wet E.M for goats to drink (also cows, chickens, and ducks)

1) The table of elements for making wet E.M for goats

| No | Elements and plants for mixing | Dose of mixing |
|----|--|----------------|
| 1 | Palm sugar or molasses (sell at the market) | 2 kg |
| 2 | Ripe bananas | 2 kg |
| 3 | Bandoul Pich (in Khmer) vine | 1 kg |
| 4 | Leaves or fruits of azadirachta indica (crush it, Sdao in Khmer) | 1 kg |
| 5 | Ampil Brokple (in Khmer) | 1 kg |
| 6 | Leaves of wild bitter melon | 1 or 0.5 kg |
| 7 | Bromatt Monous (in Khmer) tree | 0.5 kg |
| 8 | Chhke Sreng (in Khmer) (white tree) | 0.3 kg |
| 9 | Green coconut juice | 25 litres |
| 10 | Dried E.M flour | 2 spoonfuls |
| 11 | Guava leaves (in the village) | 1 kg |
| 12 | Thmea Ya (in Khmer) | 0.4 kg |
| 13 | Chhai Ya (in Khmer) leaves | 2 kg |

2) How to make wet E.M, we can make it as follows,

1. First cut and chop soft leaves of plants, for examples, Sda leaves, wild bitter melon vine, Chhai Ya leaves, etc. And then crush them again in order to be easy to mix with molasses or palm sugar.
2. After chopping and crushing elements, knead and blend them thoroughly; next pour molasses and sprinkle dried E.M flour, and mix together again. After that, take all of them to put into a safe bucket with closing a lid and keep them for seven days.
3. Finally, pour coconut juice into the bucket and keep it again until for one month; and then we can use it.

3) How to use E.M as benefits for goats, cows, chickens and ducks

1. Use 5 cc of E.M and 1.5 litres or 2 litres of water for adult goats by putting and soaking it in the bucket or a small jar to drink every day.
2. Use 3.5 cc of E.M and 1.5 litres of water for baby goats by putting and soaking it in the bucket or a small jar to drink every day.
3. Use 5 to 6 cc of E.M water and 1.5 litres or 2 litres of water for adult cows by putting and soaking it in the bucket or a small jar to drink every day.
4. Use 3 to 4 cc of E.M and 1.5 litres or 2 litres of water for calves by putting and soaking it in the bucket or a small jar to drink every day.
5. Use 3 to 4 cc of E.M and 1.5 litres or 2 litres of water for adult chickens and adult ducks by putting and soaking it in the bucket or a small trough to drink every day.
6. Use 3 cc of E.M and 1.5 litres of water for baby chickens and baby ducks by putting and soaking it in the bucket or a small trough or a bowl to drink every day.

Notice:

- First important point: we have to often wash and clean a bucket, a small trough or a bowl before using it to put E.M.
- Second important point: when pouring E.M into the water, stir it completely before putting it for cows, goats, chickens and ducks to drink.