- For lactating animal, grains should be given at rate of 400 gram per day per liter of milk produced.
- Adult male and female goats should be given 300 to 400 gram dry fodder and 200 gram grains to meet out daily requirement.
- Composition of concentrate mixture for grazing animals:
  Grains 70 to 80 %; wheat bran 10 to 15%, cake 5% and salt 1%

## **Housing Management**

Goats require shelter/ housing for protection from inclement weather such as rains, excessive heat during summer and cold during winter in addition to protecting from predator attack. The housing should be made of locally available materials. The optimum floor space requirement for goats is given as below

Age / Category	Covered area	Open paddock
of goats	(m²/goat)	(m²/goat)
0 - 3 months	0.2-0.25	0. 4 - 0.5
3 - 6 months	0.5 - 0.75	1.0 - 1.5
6 - 12 months	0.75 - 1.0	1.5 - 2.0
Yearling goats (above 12 months)	1.00	2.00
Adult goats	1.5	3.0
Pregnant and lactating goats	1.5 - 2.0	3.0 - 4.0
Bucks	1.5 - 2.0	3.0 - 4.0

<sup>\*</sup> At any given time, 10 percent more animals can be accommodated without compromising the production, health and welfare of the animals.

## **Health Management**

The shed should be maintained neat and clean with provision for adequate ventilation. Sprinkle lime powder once in 15 days to avoid dampness in floor. Hooves should be trimmed at regular interval, wash mouth, hooves and udder with Potassium Permanganate (KMnO<sub>4</sub>) solution when any wound or abrasion found. There is a need to practice regular vaccination against important infectious diseases and animals should be dewormed at regular interval. Dipping of goats to be carried out before and after winter season to prevent external parasites. Contact veterinary doctor in case of any disease outbreak.

Name of disease	Primary Vaccination		Repeat
	Primary Dose	<b>Booster Dose</b>	Vaccination
Foot & Mouth Disease (FMD)	At 3 months age	3-4 weeks after lst dose	Once in six months
Peste-des- petits ruminants (PPR)	At 3 months age	Not required	At 4th Year
Goat Pox (GP)	At 3 months age	3-4 weeks after 1st dose	Once in a year
Enterotoxaemia (ET)	At 3 months age	3-4 weeks after lst dose	Once in a year (2 dose with 1 month interval)
Hemorrhagic Septicemia (HS)	At 3 months age	3-4 weeks after lst dose	Once in a year

#### Marketing

- In order to the get maximum return from goat farming, selling goats and its products to middlemen should be avoided at any cost.
- Animal should be sold on basis of body weight and not on visual appraisal.
- Maximum profit can be obtained by selling the animal between 6-9 months of age in small and medium sized breed and 9-12 months of age in larger breeds.

During festive times (Holi, Bakrid, New Year or any sacrificial occasions), price of the animals get very high, so try to sell the animals during these period.

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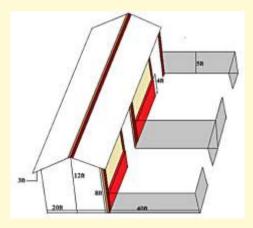
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# Good Management Practices for Profitable Goat Farming







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Goat farming is a predominant livestock activity in dry and rainfed regions of the country. The productivity and profitability of the goats under this rearing system can be improved through introduction of quality breeding bucks, reducing environmental stress through shelter and general care, following proper health care measures and providing adequate locally available feeds and fodders.

## **Important Breeds**

In India, as per 2012 livestock census, there are 13.52 crores of goats reared by the farmers and majority of which are local or mixed type. There are 28 recognized breeds of goats available in different regions of India which are given below. Farmers can improve the productivity of the local goats by using the quality breeding bucks of these goat breeds based on their location and agro climatic zone rather than introducing new breed from different region.

State Breeds available

Guiarat Gohilwadi, Mehsana, Kutchi, Surti,

Zalawadi.

Maharashtra Osmanabadi, Sangamneri, Berari

Rajasthan Sirohi, Marwari, Jakhrana

Tamil Nadu Kanni Adu, Kodi Adu, Salem Black

Uttar Pradesh Jamunapari, Barbari Kerala Malabari, Attapady black

Himachal Pradesh Chegu, Gaddi

Jammu & Kashmir Changthangi, Chegu

Punjab Beetal Odisha Ganjam

West Bengal,

Bihar, Jharkand Black Bengal

Andaman &

Nicobar Island Teressa Uttrakhand Pantja Nagaland Sumi-Ne

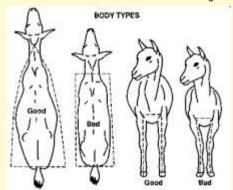
Goa Konkan Kanyal

## Selection of male and female

#### **Female**

- 1. Female around one year of age can be used for breeding purpose. Females should be mated only when they reach 70 per cent of the average adult body weight.
- 2. Female selected for breeding purpose should be true to its breed character in terms of morphological

- characteristics, physical conformation and animal should be strong, healthy and having normal gait.
- 3. The animal should have a strong long back and broad rump. The front leg should be straight with deep and broad chest. Angular hind legs with wide roomy hind quarters (provides good space between inner aspects of two thighs) give an indication about future development of udder. The udder should be voluminous, symmetrical with medium sized teats.
- 4. Breeding too young females result in more weakling and thus results in higher kid loss.
- 5. The females having poor milking capacity and physical deformities should be removed from breeding flock.



#### Male

- 1. Males selected for breeding purpose should be true to its breed character in terms of morphological characteristics and physical conformation.
- 2. Males should be strong, masculine, and legs should be strong with normal gait. It should have two well-developed testicles in the scrotum and should show good libido.
- 3. Male's mother should be high milk producer and there should be no genetic defects in both the parents.
- 4. Kids showing higher body weight gain at 60 days and six months of age should be retained for future use as breeding bucks.
- 5. Male kids born as twins should be preferred.

## **Reproductive Management**

1. Breeding bucks in the flock should be replaced once in 2 to 3 years. Introduce breeding bucks from other flocks so that inbreeding can be minimized.

- 2. Preferably, females may be bred during April-May and during October-November months. Female showing signs of heat in morning need to be mated during evening and vice versa.
- 3. Females may be provided with extra 100 to 200 grams of locally available grains along with mineral mixture during mating season which will increase the chances of multiple birth.
- 4. The females in advanced stage of pregnancy (100 to 150 days) should be managed separately and needs to be given additional feed supplement for getting higher body weight in kids and milk yield in females.
- 5. During the major breeding season, always keep vigil that breeding bucks do not loose body weight and feed them with extra 200 to 300 grams of locally available grains and chunni.

## **Kid Management**

- Clean nostrils and body of newborns properly, cut the naval cord one inch away from the body with new blade, apply diluted tincture iodine and provide first milk (colostrum) during first few hours of life.
- For first 10 days, kids should be housed along with mother round the clock and allowed free suckling. However, in females having high milk yield, suckling by kids needs to be restricted by using udder bags as excessive milk feeding leads to diarrhea.
- Thereafter, kids can be housed separately and allowed to suckle twice a day if milking is practiced. If milking is not practiced, kids can be housed along with mother during night hours.
- Young ones should not be allowed for grazing for first two to three months and tender tree fodder leaves may be made available along with crushed grains in the shed.
- Surplus Male kids having medium and low growth may be castrated at two to three months age and used for fattening while kids with faster growth may be retained for future breeding purposes.

# **Feeding Management**

- Animals should be given 6 to 8 hours of grazing with grain supplements along with small quantity of salt.
- Feeding of wheat straw should be avoided and leguminous straw should be given.