

Class 18. Systems of rearing-Housing management- Type design- Floor diagram-Space requirement for adult and young stock.

System of Production :

Nomadic:

Permanent 1. Subsistence

commercial

1. Teathering 2.Extensive 3. Semi intensive 4 Intensive

Teathering :

- ❖ Sedentary system
- ❖ Suitable to areas of intensive agriculture
- ❖ Controlled system of management
- ❖ Minimum labour input
- ❖ Utilization of feed stuffs in site

Extensive system:

Allowed for grazing on agriculture land after harvesting and on natural bushes, shrubs and natural pasture land.

Disadvantages : Low carrying capacity

- ❖ Deficit of nutrients excepts during monsoon.
- ❖ Only poor quality (High fibre) plants are available.
- ❖ Less weight gain : 20-40gm/day
- ❖ No possibility of separating on age basis.
- ❖ No scientific management is possible
- ❖ Improvement by.

1. Indiscriminate breeding – avoided
2. Castration of scrub bucks and rams.
3. Timely vaccination and deworming.
4. Bran supplementation.

Semi intensive system : On return from grazing – being supplemented with concentrates – Western countries – provision – of pen with paddocks. – Growth rate – 40-50 gm/day. High margin of profit.

Intensive system : Confined / provision of pen and run / grazing on cultivated fodder and concentrate supplementation in stalls.

Advantages :

- ❖ Don't destroy plants – preventing soil session.
- ❖ Carrying capacity is high.
- ❖ FCR is high
- ❖ Good quality manure is obtained.
- ❖ Labour efficiency is high.
- ❖ Scientific management is possible.

Disadvantages :

- ❖ Parasitic problem - external.
- ❖ Free roaming- restriction land to reduced feed in take and weight gain.
- ❖ So should be confined from young age onwards.
- ❖ High quality litter management NH₃ production – respiratory problem.
- ❖ Heat identification – problematic.

Housing

1. Not expensive
2. Adequate space
3. Proper ventilation
4. Good drainage
5. Plenty of light
6. Protection from predators and adverse climate
6. Dry floor.

Space allowance

Adult : Male : 20- 25 sq.ft.

Female: 15-20 sq.ft.

Young : 10 sq.ft.

Intensive system :

Deep litter system

Slatted floor

Concrete floor

Breedable male shed :2.5 m x 2.0 m

Individual one to avoid fighting

Parturition shed : Individual basis preferably with paddocks.

Segregation / Isolation shed / sick animal shed :10' x 5'

One corner of farm

Leeward side

General flock shed 50- 60 does

Kid shed : 20-30 nos.

Hay racks : Box made up to wooden reaper fixed at the interval of 5 cm. Elevated benches.