



Lecture title: Poultry Farm Equipment

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Summary:

➤ Poultry Farm Equipment

- A. Feeders
- B. Waterer
- C. Nest
- D. Heating equipment
- E. Weighing balance
- F. Litter

A- Feeders: Three types of poultry feeders are in use:

1. **Automatic floor feeders:** Consist of **A motor, feed tank and a metal belt** taking place in the deep groove metal moves the feed from the tank into the field.
2. **Automatic hanging round feeders:** Consist of **A motor, feed reservoir and a metal belt** go in a plastic or metal tubes moves the feed from the reservoir into the field. Use every round feeder for 35 bird.
3. **Trays:** A plastic round tray with a diameter of 40 cm. use one tray for 100 chicks.

B- Waterer : Different types of waterer are in use, such as:

1. **Turned waterer:** used for young chicks, preformed of two parts, reservoir and the plate, 5-liter capacity waterer enough for 100 chicks.
2. **Automatic floor waterers:** metal basin of 2-meter-long and 7 cm both of depth and width, the waterer provided by automatic regulator for controlling water height.
3. **Automatic hanging round waterers:** made of plastic, has oval shape, provided by automatic regulator for controlling water height. one waterer enough for 100 hens.



C- Nest:

- The nest is provided in the layers house generally under deep litter system of management. It helps in proper collection of eggs as well as production of clean eggs. Several types of nests are in use, they are made up of wooden or steel with sufficient space for birds.
- 1. **Individual nest:** One individual nest box measuring 35.5 cm x 35.5 cm x 30.5 cm is sufficient for 4-5 laying hens of commercial flock.
- 2. **Community nest:** One community nest measuring 2 m x 0.6 m x 0.6 m is sufficient for 50 layers. It is commonly used at **commercial layer farms** under deep litter system of management.
- 3. **Trap nest:** It is used for **the research purpose**. After entering in the nest box the door is automatically closed and the bird cannot come out. After completion of laying the bird is to be left out manually, and then the eggs are collected and marked.

D- Heating equipment:

- The heating equipment in use is:
- 1. **lamps:** used for small flocks, one lamp: 75 chicks.
- 2. **Gaseous brooding:** allocate one gaseous brooding for 750-1000 chicks.
- 3. **Central heating:** used in closed house system, the hot air goes into the house by big fan through tubes, the temperature controlled by a thermostat.

E- Weighing balance:

- Weighing balances of various capacities are needed in the poultry farm for weighing chicks and adult birds, feeds, eggs, etc. Special egg weighing balance is also available.

F- Litter:

- Several materials can be used as litter, due to the price and ampleness, wooden shave and hay are the most using.