

AGRICULTURE GRADE 10 NOTES

Livestock Production Selection and Breeding

Introduction

- The breeding of animals is under human control, and the breeders decide which individuals shall produce the next generation.
- The breeder makes a choice.
- The breeding of animals is based upon the fact that certain qualities are genetic; hence valuable qualities are passed on from parents to off-springs.
- The qualities can be maintained or improved in the next generation.

The performance of an animal is influenced by two major factors;

- Genetic potential
- The environment, which includes:
 - Feeding,
 - Health,
 - Care
 - The ecological conditions.
- The genetic potential of an animal is inherited from its parents.
- In selection and breeding animals with superior characteristics are selected and allowed to mate.
- In the process they transmit the superior characteristics to their offspring.
- When this is done over a long period of time, it results in livestock improvement.

Reproduction and Reproductive Systems

- Reproduction is the process by which off-springs are produced.
- All farm animals multiply by means of sexual reproduction.
- It begins with fertilization which is the fusion of male and female gametes to form a zygote.
- Fertilization takes place internally in the body of the female.
- The embryo(zygote) formed develops inside body of mother, fed and protected until end of gestation period.
- In poultry, the process is different in that eggs are fertilized internally but laid and development of the chick takes place outside during incubation.
- In both male and female, certain organs are specialized for the process of reproduction.
- Some of these organs secrete fluids which are necessary for the movement and survival of the gametes (reproductive cells.)

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Marcel A. Müller



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