

SUBJECT - Agricultural Science
WEEK - Four
CLASS - S.S. 2
TOPIC - Ration

RATIONS

RATION - This is the total supply of feed given to an animal in a ^{day} ~~hourly~~ ^{four} ~~hourly~~ ^{hourly} period.

TYPES OF RATION

1. **BALANCED RATION** - A balanced ration is a feed containing all essential nutrients in the correct quantity and in adequate proportion for feeding animals.
2. **MAINTENANCE RATION** - This is the ration given to animal just to maintain normal functioning of the body system.
3. **Production ration** - This ration is given to farm animals to enable them to produce - e.g. ^{steaming up or flushing} lactation animals, broilers, layers, pregnant ones.

FACTORS TO CONSIDERED WHEN DECIDING TYPE OF RATION TO FEED AN ANIMAL:

- i. The purpose for which the animal is being kept.
- ii. The class of animal.
- Age of the animals.
- Animals condition of health.
- Physiological state of the animals.

ANIMAL

MALNUTRITION

This is the condition in which an animal shows evidence of nutritional deficiency as a result of improper feeding.

TYPES OF MALNUTRITION

- 1 UNDERNUTRITION
- 2 OVERNUTRITION

CAUSES OF MALNUTRITION

- 1 Feed shortages
- Poor diets
- Feed prices and distribution
- Digestive disorders
- Poor milk production in lactating animals.
- Ignorance of farmer.

SYMPTOM/EFFECTS OF MALNUTRITION

- 1 loss of weight
- Impaired vision
- Stunted growth
- High death rate
- Physical deformities.
- low level of resistance of diseases

TABLE SHOWING MALNUTRITIONAL DISEASE CAUSES, SYMPTOMS AND CORRECTIONS IS SHOWN BELOW:

NUTRITIONAL DEFICIENCY DISEASES	CAUSES	SYMPTOMS	CORRECTIONS
Ricket and osteomalacia	Lack of Ca, P and Vit D ³	flexible, curved bones, soft egg shell	Add to feed fish meal, bone meal and oyster shell
PEROSIS (Sipped tendons)	Lack of choline, folic acid, Ca P in diet	Chickens lie down on their knees	Add Vit B complex and bone meal to feed
Pregnancy ketosis	Lack of sufficient energy intake by farm animals	Loss of appetite - constipation	Feed high carbohydrate diet