



CASE

*Curriculum for Agricultural
Science Education*

Principles of Agricultural Science – Animal

CASE

HUNGER PAINS OF THE CHICKENS

Presented by: Team A

Nutrient Requirements

For Broiler Hens:

Energy	
Crude Protein (%)	18.00
Vitamin A (IU)	1500
Vitamin D (ICU)	200
Calcium (%)	0.80
Magnesium (mg)	600

Common Feeds

- Starches
 - Barley
 - Corn
 - Sorghum
 - Wheat
- Fats and Oils
 - Tallow
- Protein
 - Canola
 - Fish meal
 - Field peas



Common Disorders

- Vitamin A Deficiency
- Rickets
- Osteoporosis



Vitamin A Deficiency

- Vitamin A is commonly tied to being essential for eye sight and development in animals.
- Day old chicks placed on a diet deficient in vitamin a have normal growth until week two, when growth rate starts to rapidly decline. The eyes will also become enflamed in older but developing animals



Vitamin A Deficiency

- Not enough vitamin A in the diet will cause this disorder.
- Investigation upon death reveals lesions throughout the chickens body.
- Facilities raising chicks will see a rapid decline in growth and an increase in mortality rate.

Vitamin A Deficiency

- Make sure enough vitamin A is available in the diet of the animal.

Rickets

- Rickets is a disorder that causes abnormal bone growth.
- Symptoms include bone deformities, soft beaks and rubbery bones that cannot support the chickens weight.



Rickets

- Vitamin D and Phosphorus deficiency are the causes of rickets.
- Animal not treated will exhibit slow growth and in many cases death.
- Some developing chickens may also suffocate, lacking the bone structure necessary for respiration.

Rickets

- Be sure feed a complete and balanced feed to chickens throughout production.
- Allowing the chickens to get sunlight can also help.

Osteoporosis

- Bone disorder caused by a deficiency in Calcium.
- Symptoms include: Hollow and weak bones. Also Soft egg shells in laying hens.



Osteoporosis

- Lack of Calcium in the diet.
- Eggs produce would be so soft to be sold.
- Increased mortality rate for growing broilers.

Osteoporosis

- Be sure feed a complete and balanced feed to chickens throughout production.

References

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