

Introduction

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Bulletins

difficult finding information at library

Building of Incubator

Purchase of commercial heating element

Ice chest because of simplicity

Tape and cables not touching

water and humidity screen

glass inserted in top

thermometer - 1 inch above screen (where embryo sits)

when bought 80% hatchability is expected

Eggs must be set within about one week or after

10 days hatchability goes to ZERO percent %

Turning eggs regularly

Ideal temperature 100.5 97-103

Scheduling of setting eggs

Observance of

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5 day old and as cracked into dish - heartbeat

8 day

13 day

17 1/2 day

Magnifying Glass

Development of Embryo

Before Egg laying - Division and growth of cells

Between laying and incubation - No Growth

Inactive embryonic life

During Incubation

First Day - 1

16 hrs - first signs of resemblance to chick embryo

18 hrs - appearance of alimentary tract

20 hrs - appearance of vertebral column

22 hrs - beginning of formation of head

24 hrs - beginning of formation of the eye

Second Day

25 hrs - beginning of formation of heart

35 hrs - " of " of the ear

42 hrs - the heart begins to beat

Third Day

60 hrs - beginning of formation of nose

64 hrs - legs and wings begin to form

Fourth Day - the tongue starts to develop

Fifth Day - Reproductive organs "

Sixth Day - beak and egg tooth

Eighth Day - feathers appear

Thirteenth Day - Claws "

Sixteenth Day - the beak and claws become firm

(H)

Twentieth Day - the embryo occupies practically all the space within the egg except the air cell

Twenty-first Day - Hatching

Don't turn last three days

Candle must be placed on screen on 18th day

Hatching - peeping - chick doesn't actually make circular cut

Brooding

Box, light, warmth, Food, water

Candling - holding up to strong light without hurting your eyes - to see air cell and embryo

Gooseneck Lamp and Cardboard

Questions

Rooster Crowing

Predators

Other research aspects

Coloring, temp, Preserving, Turning