



Target for Brooding - 1<sup>st</sup> Week Body Weight 200gm & Mortality <1%

Life

# **BROODING OBJECTIVE**

- Uniformity
  Control Mortality High Livability
  Good 1st Week Body Weight (200 gm Plus)

4) Development Immune system – Healthy chicks; less Disease 5) Development of Intestine – Better Feed utilization; better FCR. Better GALT - Better Immunity 6) Profitability

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WINTER NIGHT BROODING

Brooding is 50% of Poultry; Brooding makes the Road of birds health, Mortality, Weight gain & FCR

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#### WINTER MORNING GAS BROODING

Efficient Brooding results in the full Expression of their Genetic potential



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# **BROODING Essentials**

- > Disease Free House
- > Temperature
- Ventilation
- > Space & Litter
- ≻ Light
- Safe Drinking Water
- Early & Easy Access to Feed

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### **IMPORTANCE OF BROODING**



# **TEMPERATURE ZONE**

COLD STRESS	COLD	OPTIMUM (Ambient)	WARM	HEAT STRESS
Below 10°C	10 – 18°C	18 – 24 °C	25 – 30°C	Above 30°C
Exhaustion	Adjustment	Comfort Zone	Adjustment	Exhaustion

<u>To achieve maximum performance, poultry house Temperature must be kept</u> <u>consistently within the bird's thermo-neutral or comfort zone</u> Otherwise, the bird will expend additional energy to regulate its Body Temperature resulting poor Body WI Gain & Poor FCR

The bird's comfort zone changes with age & is influenced by • Body Weight • Ventilation • Feed Intake • Relative Humidity & • Ambient Temperature

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### **BROODING Temperature MANAGEMENT**



Winter Early Morning Brooding at 11° C Temp with Coal Oven on 16<sup>th</sup> Jan 2015

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# **BROODING Temperature MANAGEMENT**





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# **BROODING Temperature MANAGEMENT**





Winter Morning Gas Brooding January 2018

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Curtain Cover Keeping Space on top for Ventilation

**BROODING Ventilation MANAGEMENT** 



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#### **BROODING Ventilation MANAGEMENT**



#### **BROODING Temperature & Ventilation MANAGEMENT**





WINTER NIGHT BROODING Temp & Ventilation MANAGEMENT



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# Summer BROODING Mis-MANAGEMENT



Packed Curtain Cover Brooding to maintain Temperature • NO Ventilation • NO Ventilation • NO Ventile Wash • NO Feeder Bangladesh 20/10/2020 at 31°C Temperature





### Winter BROODING Mis-MANAGEMENT



Packed Curtain Cover Brooding to maintain Temperature with ZERO Ventilation – Nepal, Dec'18 AND The Chicks are under Stress

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# **BROODING Mis-MANAGEMENT**





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Packed Curtain Cover Brooding with Huge Light to maintain Temperature with ZERO Ventilation – Bangladesh, Summer'18 AND The Chicks are under Stress

# **BROODING MIS-MANAGEMENT**





Packed Brooding with Huge Light to raise Temperature in Summer with No Space to Move, Eat & Drink and ZERO Ventilation – Bangladesh AND the Chicks are under Stress (Sweating in Winter)

# **BROODING STEPS – GETTING READY**







# **BROODING STEPS – PRE-HEATING**



SWITCH ON the HEATER : 3 – 6 hours before chicks arrival in Winter AND



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# To stimulate Water & Feed Intake in comfort zone # To minimize incidence of GOUT & watery droppings





- Unload chicks & place them quickly onto paper in the brooding area
  Arrange equipment to enable the chicks to reach Feed & water easily & quickly
- Leave chicks to settle 1 2 hours with access to feed & water + Check feed, water, Temperature & Ventilation after 1 – 2 hours and adjust where necessary

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### **BROODING: AFTER HOUSING IN SUMMER/ MONSOON**



Chicks are in Comfort Zone: Eating, Drinking, playing & Making sound immediately after Release from Chicks Box

**BROODING: AFTER HOUSING IN SUMMER/ MONSOON** 



Chicks are in Comfort Zone: Eating, Drinking, playing & Making sound immediately after Release from Chicks Box

# **BROODING - PAPER FEEDING**



Paper Feeding motivates the chicks towards Feed to achieve early & 100% Crop Filling in 48 hours

- Chick's Feed are to be sprinkle on Newspaper where Chicks are just released
- Sprinkle 8 10 times 1st days on Paper from a distance to create gentle sound to draw attention of the chicks



# **BROODING - CROP FILLING**



100% Crop filling stimulates development of intestine which favours Proper absorption of nutrients Reaching standard 7 day body weight Improves Immune capacity

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# WINTER BROODING



Brooding is to provide Comfortable Environment to the newly hatched Chicks in terms of Temperature, Ventilation, Bedding, Light and to arrange Easy access of Safe Drinking Water & Feed for the journey ahead

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# **BROODING – EARLY CHICK FEDING**



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Dr B C Dutta