

# How to Do Poultry Farming in Summer ?



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**Poultry Farming in Summer is an important topic to understand because heat stress causes adverse effects on the performance of poultry production. The summer season causes several harmful effects on broilers and layers, which ultimately reduces profitability. Summer stress is a severe concern for poultry producers as it directly leads to financial losses by impaired poultry performance.**



Due to the common occurrence of environmental stressors worldwide, many studies have investigated the detrimental effects of heat stress on poultry production. It has been seen that heat stress negatively affects the welfare and productivity of broilers and laying hens. Understanding and controlling heat stress in poultry is crucial to successful poultry production and profitability. Heat stress is one of the most critical environmental stressors challenging poultry production worldwide. The detrimental effects of heat stress on broilers and laying hens range from reduced growth, decreased egg production, egg quality, and safety. Moreover, the negative impact of heat stress on poultry welfare has recently attracted increasing public awareness and concern.

The environment in which poultry is maintained is the most critical factor for affecting productivity. The thermoregulatory mechanism in birds is effective only upon the ambient temperature within certain limits (180-280 c); beyond this, a bird cannot adjust well. The lethal upper temperature in birds is about 470c. Birds do not change their behavior or signs of discomfort and use the minimum amount of metabolic energy to maintain a homeothermic range of body temperature. Within the thermoneutral zone, body temperature is supported by the thermal equation (heat production=heat loss).

#### What Happens in Heat Stress in Birds?

Birds become heat stressed when they have difficulty achieving a balance

between body heat loss and body heat production, the average body temperature of poultry is 410 c. When the environmental temperature exceeds 350c, a bird is likely to experience heat stress. In effect, to maintain body temperature, birds first rely on losing heat from blood vessels near the surface of the skin by a process called non-evaporative cooling. However, this mechanism is only effective when the ambient temperature is lower than the bird's body temperature. As ambient temperature increases beyond the bird's thermoneutral zone, non-evaporative cooling becomes ineffective. At these higher temperatures, the bird relies on panting/evaporative cooling to control body temperature. Panting is an effective but energy-expensive way for the bird to regulate body temperature. It typically results in lower feed intake and growth and reduced feed efficiency.

It will also increase water intake to offset water loss. Still, the situation is complicated because the body's ability to retain water is reduced as the evaporative cooling process escalates. During high ambient temperatures, the birds increase panting up to 10 times from an average rate of 25 breathes/min to 250 breathes/min, which leads to an excessive loss of carbon dioxide resulting in raised blood plasma bicarbonate levels and increased blood ph. The bird attempts to correct blood ph. by excreting bicarbonates via urine. Bicarbonates are negatively charged ions coupled with

# Guide To Poultry Farming

**David Kirk**



## **Guide To Poultry Farming:**

## Reviewing **Guide To Poultry Farming**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Guide To Poultry Farming**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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