

A Study on manmade Air Pollution on Cockerel Bird

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Abstract

Air pollution caused by human activities has become a significant environmental concern, affecting not only human health but also the health, behaviour, and productivity of birds and other animals. Cockerel birds, like other domestic poultry, are exposed to pollutants originating from vehicular emissions, industrial activities, agricultural practices, biomass burning, dust, and improper waste disposal. The present study examines the potential impact of anthropogenic air pollution on cockerel birds, with particular emphasis on respiratory health, physiological responses, behaviour, growth, and overall well-being. Air pollutants such as particulate matter, carbon monoxide, nitrogen oxides, sulphur dioxide, and other chemical contaminants may enter the respiratory system and potentially cause oxidative stress, inflammation, reduced respiratory efficiency, and other physiological disturbances. Prolonged exposure to polluted environments may also affect feeding behaviour, activity levels, growth rate, and disease susceptibility. The study proposes an assessment of air-quality conditions in selected poultry environments along with relevant physiological and behavioural indicators in cockerel birds. Environmental parameters and biological observations can be analysed to identify possible associations between pollution exposure and bird health. The study highlights the importance of maintaining proper ventilation, reducing exposure to smoke and dust, improving poultry-house management, and monitoring environmental conditions to minimize potential risks. Understanding the interaction between air pollution and poultry health is important for sustainable poultry management and animal welfare. Further controlled and long-term studies are required to establish specific exposure-response relationships and develop effective strategies for protecting domestic birds from anthropogenic air pollution.

Keywords: Air Pollution, Cockerel Birds, Poultry Health, Anthropogenic Pollution, Respiratory Health, Particulate Matter, Oxidative Stress, Animal Welfare, Environmental Pollution, Poultry Management