

# rahjab

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**Submission date:** 03-May-2021 05:08PM (UTC-0500)

**Submission ID:** 1577184029

**File name:** Merrall.edited.docx (10.95K)

**Word count:** 326

**Character count:** 1852

Name

Institutional affiliation

Course

Date

Date Merrall, E. S., & Evans, K. L. (2020). Anthropogenic noise reduces avian feeding efficiency and increases vigilance along an urban-rural gradient regardless of species' tolerances to urbanization—*Journal of Avian Biology*, 51(9).

The Hypothesis tested was to examine whether anthropogenic noise covers adventitious sounds used by birds in aiding detection of the predator, which results in an increase in vigilance and reduction in efficiency in feeding. Besides, the research tried to address related predictions on the impacts of anthropogenic noise on alertness and the efficiency of feeding in rural areas. The study focused implication of poise pollution on the reduction of growth among different species of bird.

To test this Hypothesis, through controlled playback experiment was used, and more focus was put on six passerines based on population densities are influenced by urbanization. The Hypothesis was also tested using anthropogenic playback based on noise in the urban and control treatment.

The main results were a significant increase in vigilance rates when species were exposed to urban noise. The peck rate reduced through urban noise treatment noise exposure and varied among different species. The Hypothesis is supported with clear evidence from the methods that show that when species are exposed to anthropogenic noise, there is a reduction in the willingness of the feeders while feeding vigilance increases. Nevertheless, there is no supporting evidence to prove how species exhibited differences in tolerating urban development.

The results imply that many species exhibit adverse effects of anthropogenic noise regarding feeding behaviour following an increase in vigilance rate according to the adventitious sound

masks hypothesis. Additionally, food availability stands to be limiting factors for the size of population for urban birds and more so natural foods when such birds are breeding.

#### Questions

What is the threat of urbanization to biodiversity on the marked changes among species and natural habitat?

What is the implication of noise pollution on the growth of bird species in urban areas?

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