

THE INDIAN RING DOVE (*Streptopelia decaocta*) AS VECTOR AND AGRICULTURAL PEST

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ABSTRACT: Dove constitute the bird family- Columbidae, within the order- Columbiformes, which include some 300 species. Common dove seen in arid zone of Rajasthan are Indian ring dove (*Streptopelia decaocta*), red-turtle dove (*Streptopelia tranquebarica tranquebarica*) and little brown dove (*Streptopelia senegalensis*). The dove universally symbolizes innocence, gentleness, faith, marital affection, peace and constancy. The dove is the only bird that is mentioned about fifty times in the Bible. Visual observation and questionnaires indicate that in large variety of crops including Bajra, Wheat, Ground nut, Pulses, Mung, Moth, Rye were attacked at sowing, planting, seedling and harvesting stages of growth by the doves. They can cause substantial damage to agricultural crops in economy of farmer. These doves carry pathogens of diseases like ornithosis, salmonellosis, cryptococcosis etc.

1. INTRODUCTION

Indian Ring Dove (*Streptopelia decaocta*) is very common bird in arid zone of Rajasthan. It is about 32cm (12.05 inch) in length, 130 gram in weight. Pale grey and brown in colour. The male dove would have a distinctively developed claw behind its limb where as the female will not have it. The size of the male dove is slightly larger than the female. They breed throughout its range, practically all year chiefly May to September. Two eggs are laid regularly at intervals of between 6-8 weeks, eggs are pure white and smooth textured. They build flimsy bottomed nest. Both sexes share a nest building and incubation. They are primarily granivorous feeders. feeds on seeds which are visible or readily accessible in light ground cover. Dove are attracted to agricultural crops particularly cereal grains (Indian corn, bread wheat, common sorghum, millets, rye, barley and common oats) when agricultural foods are available that comprises a large part of the diet. The extent of bird damage, varies between fields and at different localities depending upon several factors. The risk of catching a disease from human is far greater than it is to catch one from a bird (dove or other wise)

2. STUDY AREA

The Sardarshahr, tehsil of Churu district in Rajasthan is selected for the study. It is situated 250 km from Jaipur via Sikar, Ratangarh and 47km from Ratangarh and 137km from Bikaner. The rainfall is scanty and erratic. The average rain fall is about 420mm. month of July and August has got maximum rainy days. In summer maximum temperature may reach up to 45°C and in winter the temperature may fall as 02°C. The humidity is generally about 60% but in summer season it decreases below 30% due to dryness in environment. Rabi crop is mustard and wheat, kharif crop is Bajara and Moth.

Table 1.1 Questionnaire responses on Indian ring dove damage to crop plants.

Name of crop	No. of respondents	No. of respondents	% respondent	Time of damage
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3. METHODS

The pest status and dove as a vector was determined from questionnaires to farmers and villagers. The questions asked were: can you identify the dove? (local name was used), Is it a major pest on your farm? What crops does is damage? Do they transmit any kind of disease? Have you ever controlled it and with what methods and what measure of success? Questionnaire responses on Indian ring dove damage to crop plants is mentioned in table (1.1) The mode of damage was also determined from visual observation of damaged crops in the field. Cultivated crop fields were chosen randomly. Observations were taken twice or thrice a week, at regular intervals during morning and afternoon. The number of bird species recorded are in table (1.2)

4. RESULTS

Seventy six percent of the questionnaires sent were completed and returned. Preliminary results compiled from answers to the questionnaires indicated that large variety of crops including pearl millet (*Pennisetum typhoides*), wheat (*Triticum aestivum*), mung (*Vigna radiata*), moth (*Vigna aconitifolia*), mustard (*Brassica campristriace*), jawar (*Sorghum vulgare*), ground nut (*Arachis Americana*) were attacked at various stages of growth planting, seedling and harvesting. The extent of damage depends on the population of doves in the crop land. But their population is fast declining in previous last two decades. This is due to extensive use of pesticides, habitat destruction, hunting and contamination of their food and water. People are not aware of any disease of dove. There is no medical record, evidence to show that dove spread diseases.

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