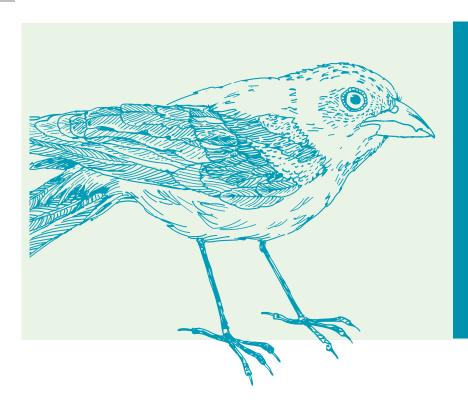
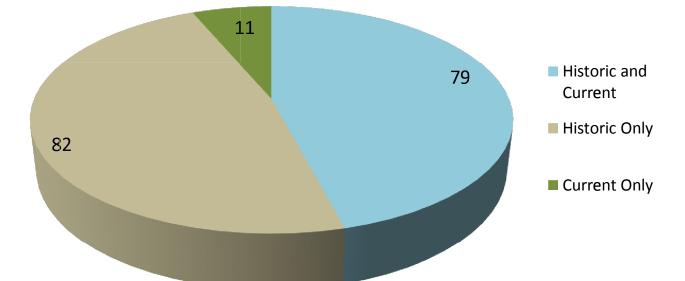
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Investigating Changes in Land Cover, Habitat & Bird Biodiversity in a Lower Delaware Watershed Town; Haddonfield, NJ from late 1800s to 2012

Birds Observed in Haddonfield; Comparison of Historic and Current Sightings (Total Species = 172)



Bird Species Richness Comparison

We provide here a list of species not observed by Rhoads in the late 19th and early 20th century. Analyses of these species reveals that human activity including climate change, introduction of non-native species, and land/ habitat conversion are the potential factors contributing to this difference in species richness.

Also provided is a list of sample species catalogued by Rhoads in the late 19th / early 20th century which were not observed during our surveys It is possible that some of these species may still be present in southern New Jersey, but their abundance was so low in our area that we did not see/ hear them. We propose that changes in habitat (reduction of forest cover and non-woody open space) is the main reason for the loss of many native bird species in our area.

A full list of bird species from the Rhoads and Tucker surveys is available upon request.

Birds Observed in Haddonfield in the 21st Century, but Absent from Rhoads Surveys Black Capped Chickadee Fish Crow House Finch Laughing Gull Ríng Bílled Gull Double Crested Cormorant

Great Horned Owl Snowy Egret Northern Mockingbird Mourning Dove

Red Bellied woodpecker

A Sampling of Birds Observed in Haddonfield in the Late 19th/ Early 20th **Centuries, Absent from Our Surveys** Alder Flycatcher

- Northern Bobwhite Bobolínk Brown headed Nuthatch clíff Swallow connectícut warbler Grasshopper Sparrow Hooded Merganser Horned Lark
- Marsh Hawk (Harrier) Northern Shrike



