

Project Title: Temporal Changes in Invader Abundance in Relation to Land Use and Land Cover

Task Agreement #: G18AC00280 **Modification(s):**
Discipline: Natural
Type of Project: Technical Assistance
Funding Agency: USGS
Other Partners/Cooperators: Montana State University
Student Participation:
Effective Dates: 8/1/2018 – 7/31/2019
Funding Amount: \$47,768

Investigators and Agency Representative:

USGS Contact: Catherine Jarnevich; Jarnevichc@usgs.gov

Investigator: Liba Pejchar, Colorado State University, Fort Collins, CO; liba.pejchar@colostate.edu

Project Abstract: The goal of this research is to evaluate how the abundance of widespread avian invasive species with known negative impacts on native fauna, respond to changes in land use relative to native human-adapted/synanthropic and human-sensitive species. These findings will also shed new light on temporal patterns of avian homogenization (e.g. places that are becoming increasingly dominated by invasive or synanthropic birds) across the United States.

The objectives of this collaborative research are to 1) describe nation-wide patterns of invasive bird abundance over time, and 2) identify whether these temporal patterns are associated with changes in land use intensification.