

# Migratory Bird Conservation Under a Changing Climate

Brian Wolfer

Acting Wildlife Division Administrator

Brandon Reishus

Migratory Game Bird Coordinator

Emily VanWyk

Acting Conservation Strategy Coordinator



# Waterfowl Management Ready for the Future



Brandon Reishus  
Migratory Game Bird Coordinator

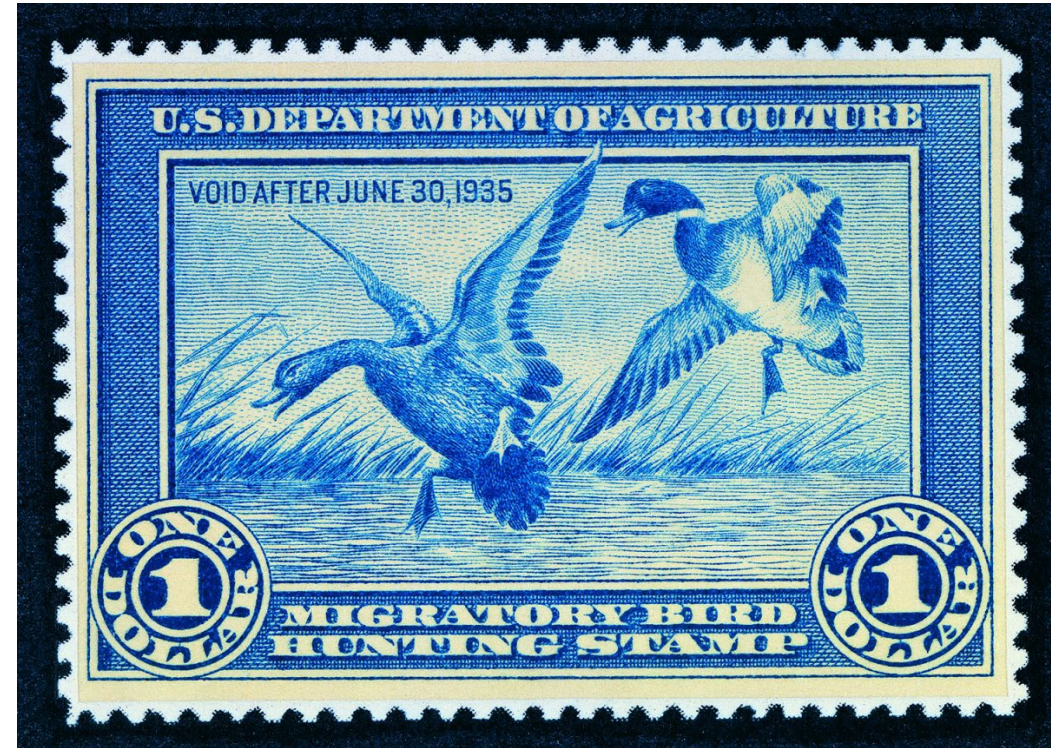
# Introduction

- Resource exploitation
  - Habitat destruction
  - Unregulated harvest
- Harvest management
- Coordinated habitat management
- Holistic resource management



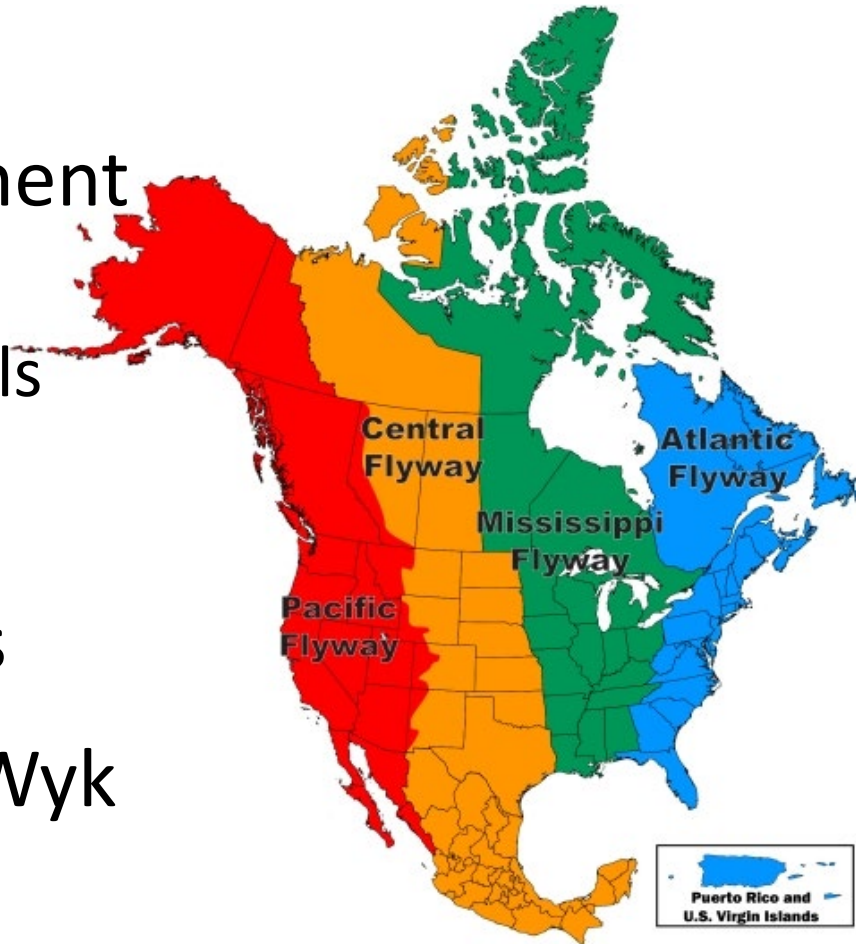
# The Past – How we got here

- Migratory Bird Treaty Act
  - Regulate harvest
- The Duck Stamp Act
  - Protect important habitats
- The Pittman-Robertson Act
  - Empower the states
- Bird Banding
  - Understand how its all connected



# The Flyway System

- Banding defined biological flyways
- Administrative flyways defined for management
  - Council make recommendations to the USFWS
  - Technical committees inform the flyway councils
- Council – Bernadette Graham-Hudson
- Study Committee (Game) – Brandon Reishus
- Nongame Technical Committee – Emily VanWyk



# Monitoring the Harvest

- Adaptative Harvest Management
  - Objective way to develop regulations
  - Uses our best available information
  - The systems learns as it goes
    - Predicts future status
    - Accounts for how well the predictions line up with reality



U.S. Fish & Wildlife Service

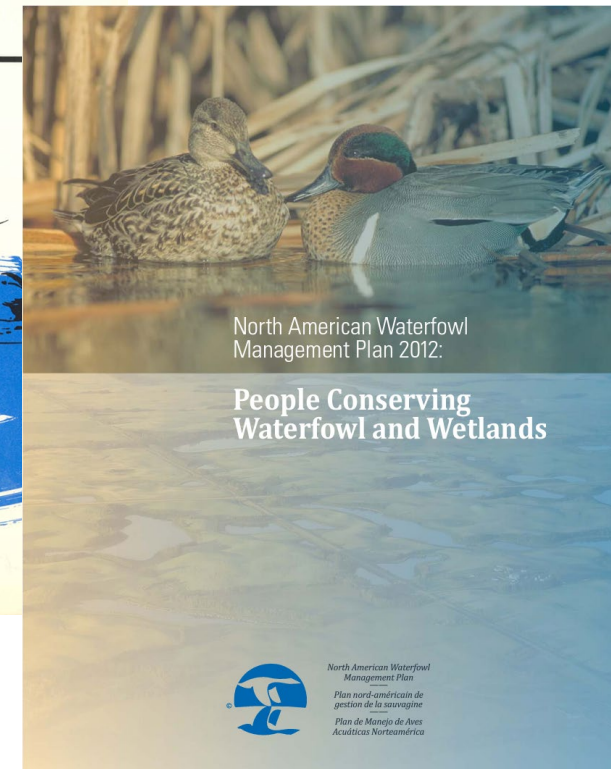
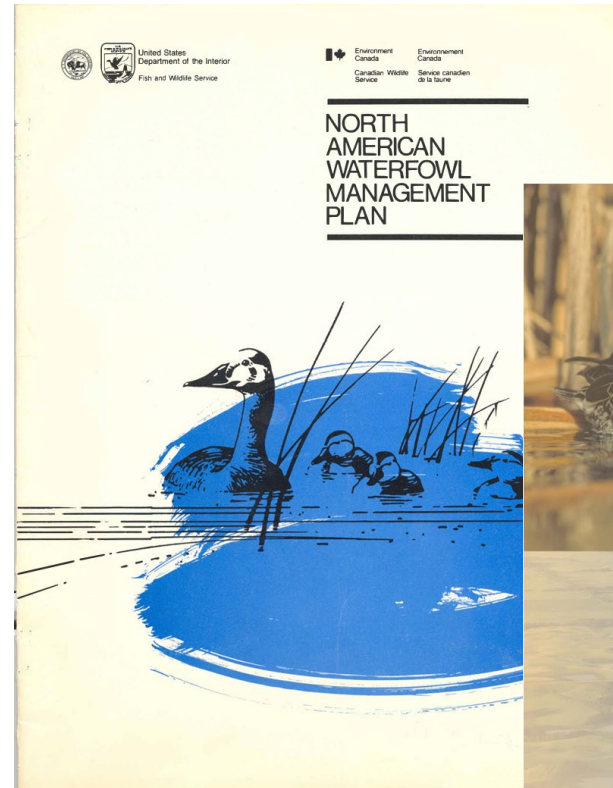
## Adaptive Harvest Management

*2023 Hunting Season*



# Successful Continental Conservation

*“Through innovative partnerships combining science, boots-on-the-ground conservation delivery, and public and policy engagement, the Plan has demonstrated to the world how continental-scale conservation can be achieved.”*



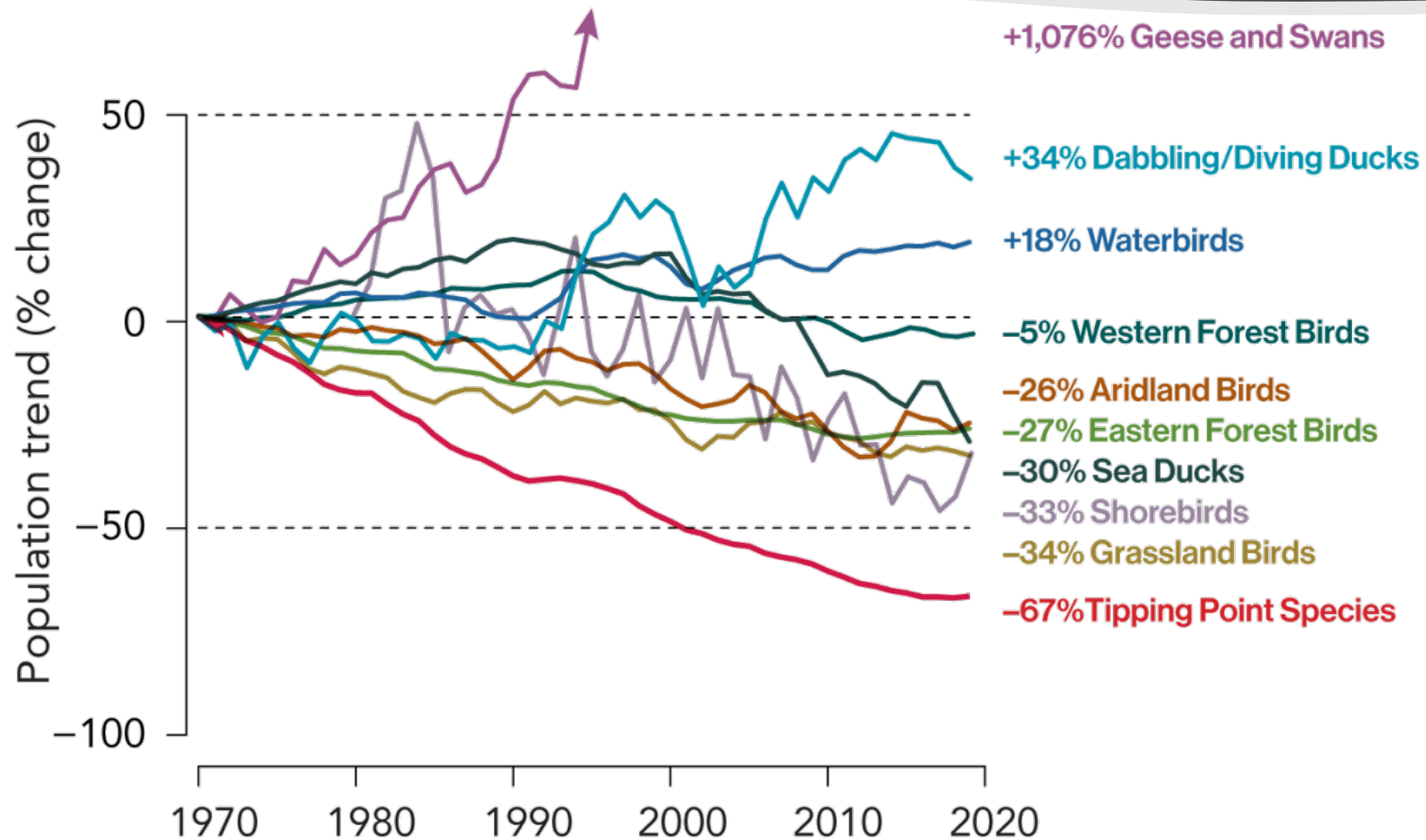
# Partners Working Towards the Same Goal

- The Joint Ventures
- North American Wetlands Conservation Act





# The Present – and looking into the future



# The Future

- Challenges exist
  - Anticipated future conditions are being incorporated in long-term planning for habitat
  - AHM will adapt waterfowl harvest to a changing climate
- Long-term focus on waterfowl provides a proven framework for other species



# Migratory Bird Conservation Under a Changing Climate



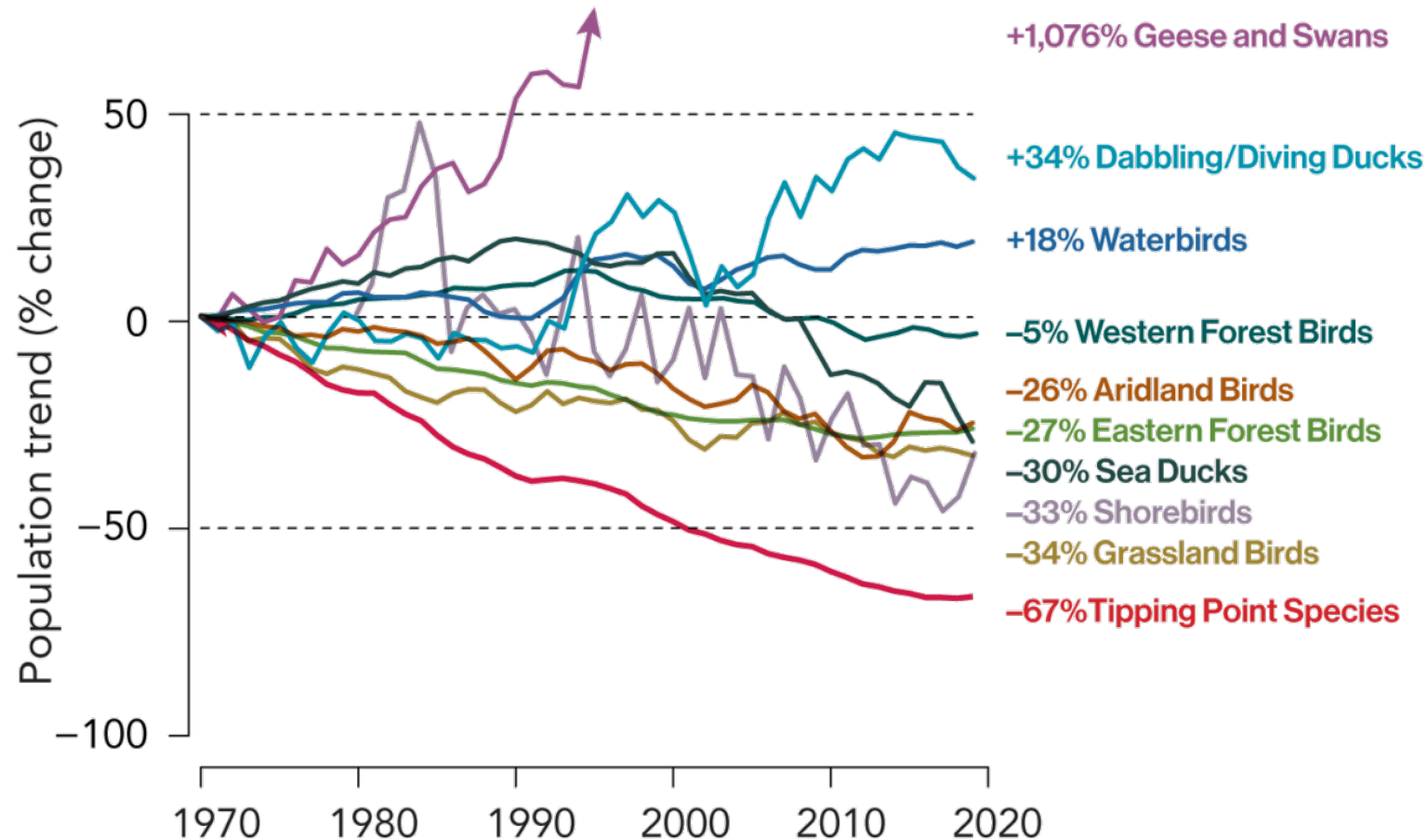
Emily VanWyk  
Acting Conservation Strategy Coordinator

# Presentation Overview

1. Status and trends
2. Need for targeted conservation action
3. Projects ODFW and partners are working on



# Population Trends between 1970 and 2020 by Guild or Habitat



Trends for breeding North American bird species by group or by habitat during 1970–2019, except for the shorebirds trend, which begins in 1980 (NABCI 2022).

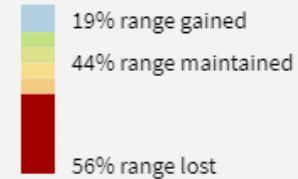


# Direct and Indirect Impacts of Climate Change

- Shifting timing of annual movement patterns
- Changes in habitat distribution
- Drought
- Increased impacts of invasive species
- Increase in frequency and severity of fire

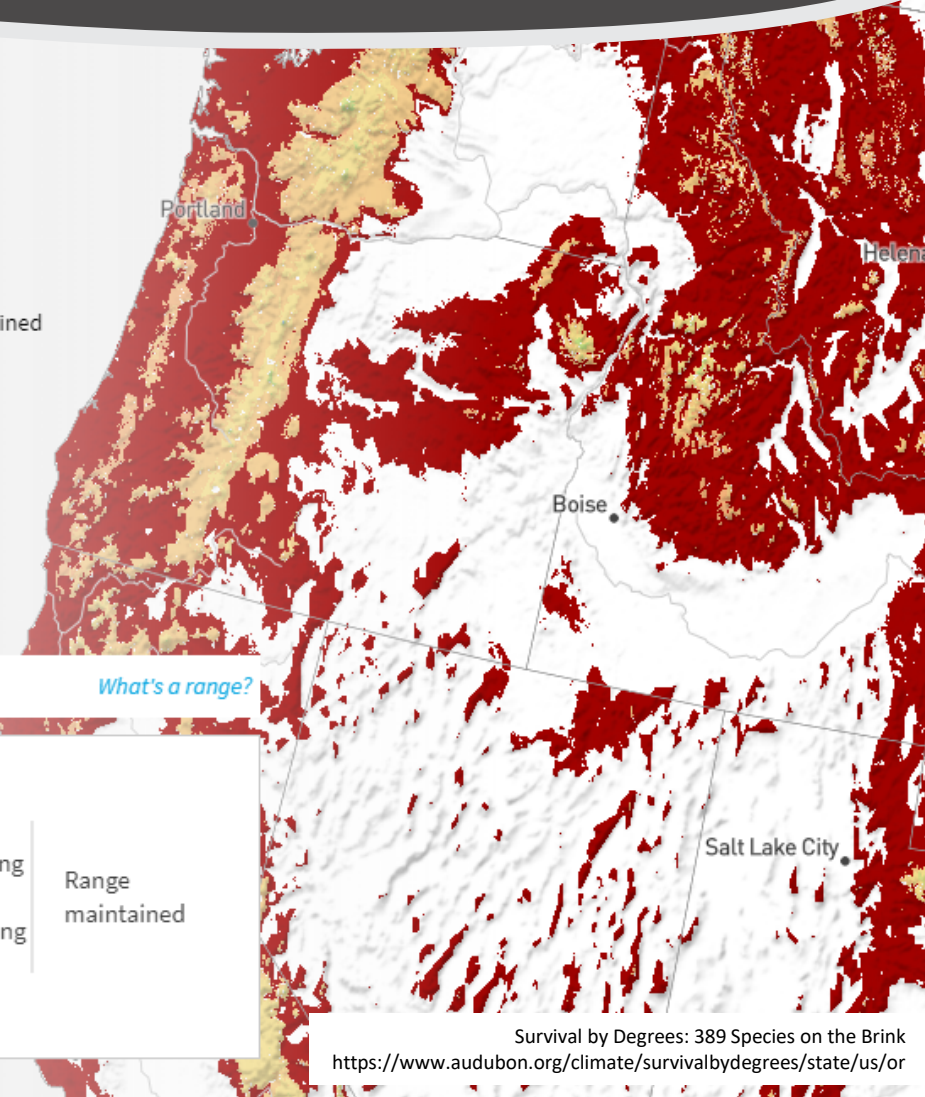
Overall species vulnerability status:

High



Map Legend

[What's a range?](#)



# Planning for Population Resilience in an Uncertain Future



- Work with partners to increase information available
- Monitor and evaluate vulnerable species and habitats
- Implement strategies to mitigate impacts of climate change

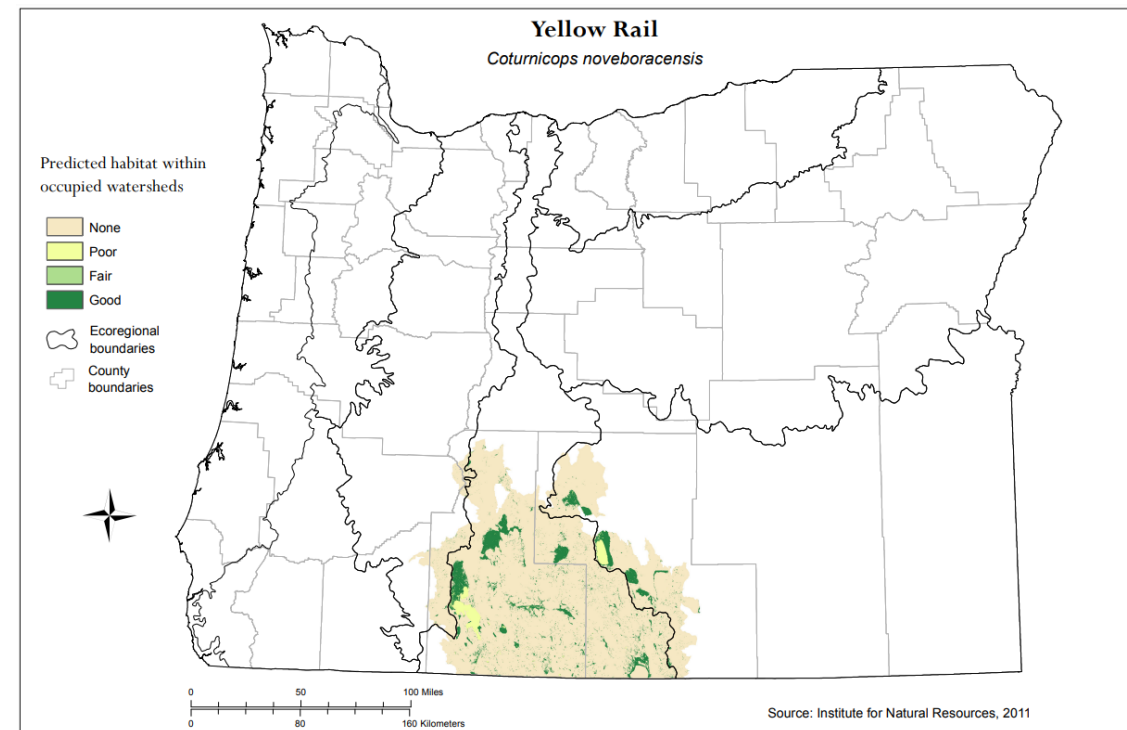
# Intermountain West Shorebird Survey

- Limited data describing shorebird populations available
- Need to identify factors influencing shorebird trends
- Improved water management for wildlife





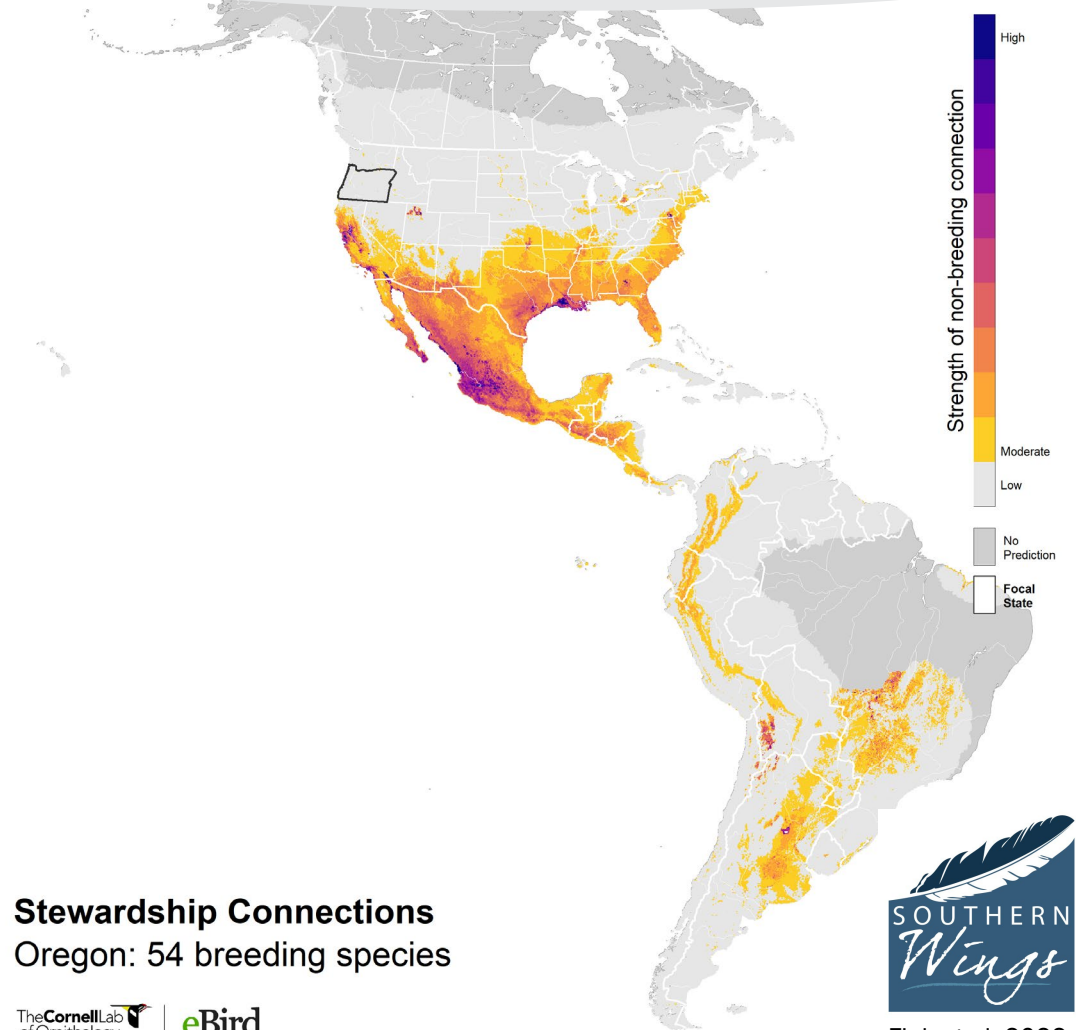
# Yellow Rail Habitat Assessment



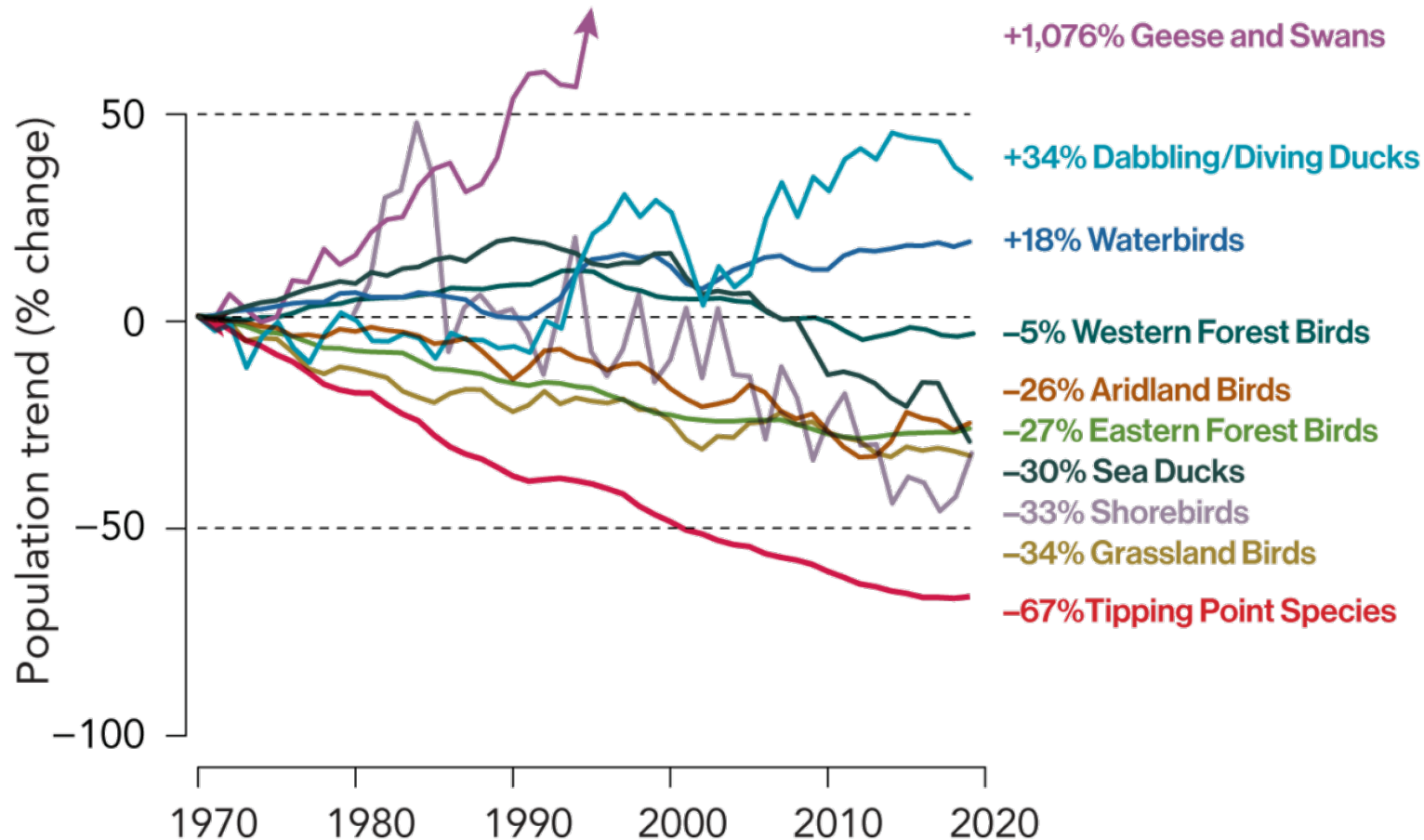
# Southern Wings: Whole Lifecycle Conservation for Migratory Birds



Purple Martin  
Kathlin Simpkins(CC0)



# Population Trends in North America by Group or Habitat 1970-2019



Trends for breeding North American bird species by group or by habitat during 1970–2019, except for the shorebirds trend, which begins in 1980 (NABCI 2022).



# Questions?

