### Expanding the Breeding Range: Kirtland's Warbler Habitat on the Ottawa National Forest

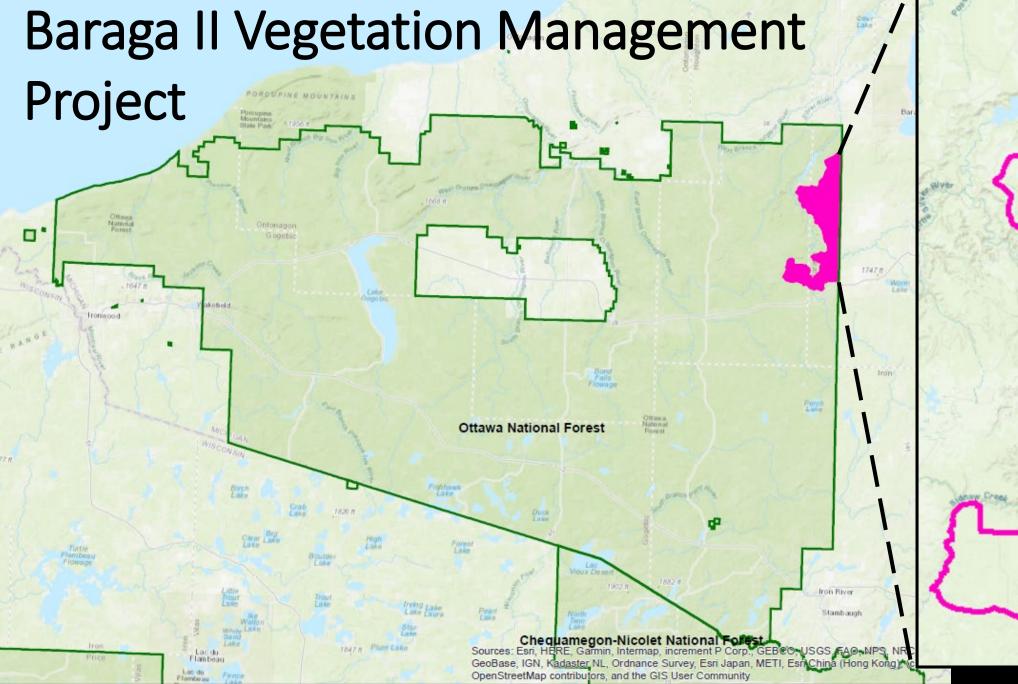
Brianne Boan

Wildlife Biologist

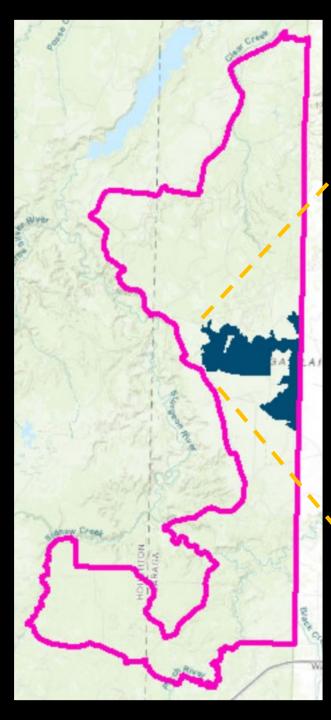




Photo by Aaron Birkemeier









#### **Projected Timeline**

- Block 1 will be sold in 2024
  - 2027: Begin site prep

• Rx Fire

- Roller chopping, anchor chaining
- 2028: Planting
  - Approximately 450,000 trees at 1,400-1,500 trees/acre
- Tentatively:
  - Block 2 will be sold in 2034
  - Block 3 will be sold in 2044

# The Projected Future...

- American Bird Conservancy
- Michigan Tech University
- Michigan Department of Natural Resources
- Ottawa NF: 3 more blocks!
  - 3 now, 3 more in a future VMP
  - Rotational management schedule
  - At least one block will meet suitable habitat criteria any given year



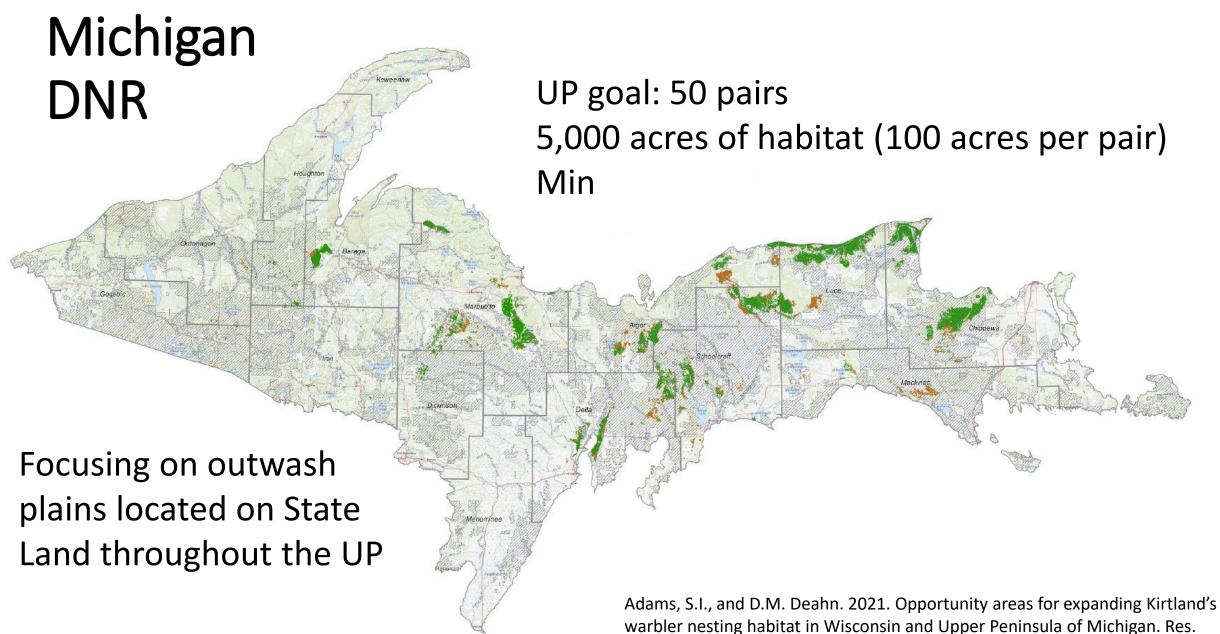
#### **Other KW Habitat Work Happening**

- Expanding the Breeding Range Working Group (Kirtland's Warbler Conservation Team)
  - Upper Peninsula
    - Ottawa National Forest
    - Hiawatha National Forest
    - Michigan DNR
  - Wisconsin
    - The Nature Conservancy
    - American Bird Conservancy
    - Wisconsin DNR

#### Hiawatha National Forest

Developing a Programmatic Jack Pine Regeneration Project

- 15,000 acres next 15 years currently ground-truthing
- Habitat blocks of 300-550 acres
- Natural regeneration, seeding, planting
- Varying jack pine densities (850-1,400 trees/acre)
- Variable openings, 0.25-1.25 acres
- Restoring fire in boreal systems
  - Collaborative approach local tribes



Map NRS-12. Madison, WI: USDA Forest Service Northern Research Station.

## Wisconsin

- The Nature Conservancy
  - 400 acres
- American Bird Conservancy
  - 485 acres
- DNR

Adams, S.I., and D.M. Deahn. 2021. Opportunity areas for expanding Kirtland's warbler nesting habitat in Wisconsin and Upper Peninsula of Michigan. Res. Map NRS-12. Madison, WI: USDA Forest Service Northern Research Station.

