The timing of spring migration in Ohio









Hooded Mergansers. Photo by Andy Reago & Chrissy McClarren (CC 2.0)

Tree Swallow. Photo by Matthew Shumar

Nashville Warbler. Photo by Andy Reago & Chrissy McClarren (CC 2.0)

Yellow-billed Cuckoo. Photo by Andy Reago & Chrissy McClarren (CC 2.0)



THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

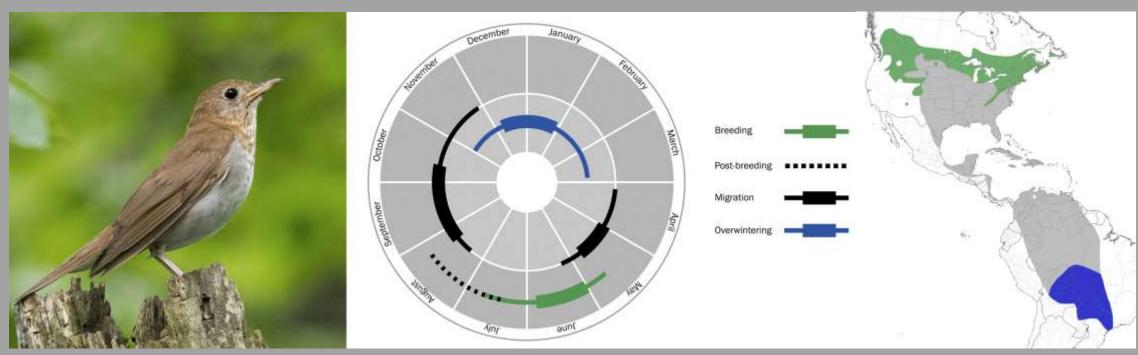
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Life cycle of birds

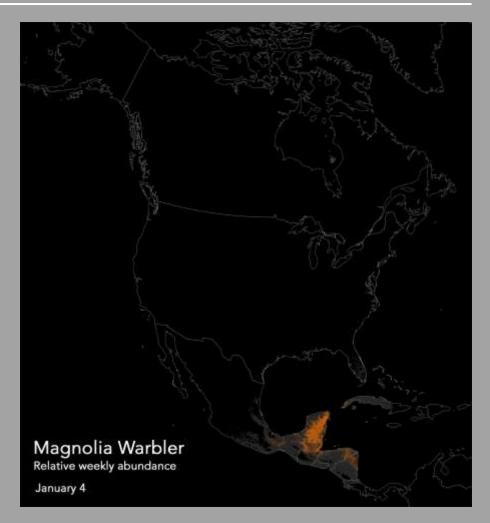


Veery. Photo by Andrew Weitzel

Life cycle of birds



Magnolia Wabler. Photo by Andy Reago & Chrissy McClarren (CC 2.0)



Why migrate?



- Abundant resources at northern latitudes
- Larger area to disperse
- Longer daylight



Maximize reproductive success

Where did they go?

Eastern Whip-poor-will study conducted at Vinton Furnace

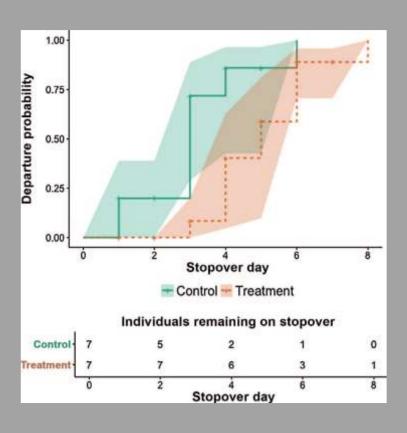
Archrival GPS tags deployed and then birds recaptured the following spring (Tonra et al. 2019)

Quantify winter home ranges (1 to 10 ha) found importance of forests and edges on the wintering grounds



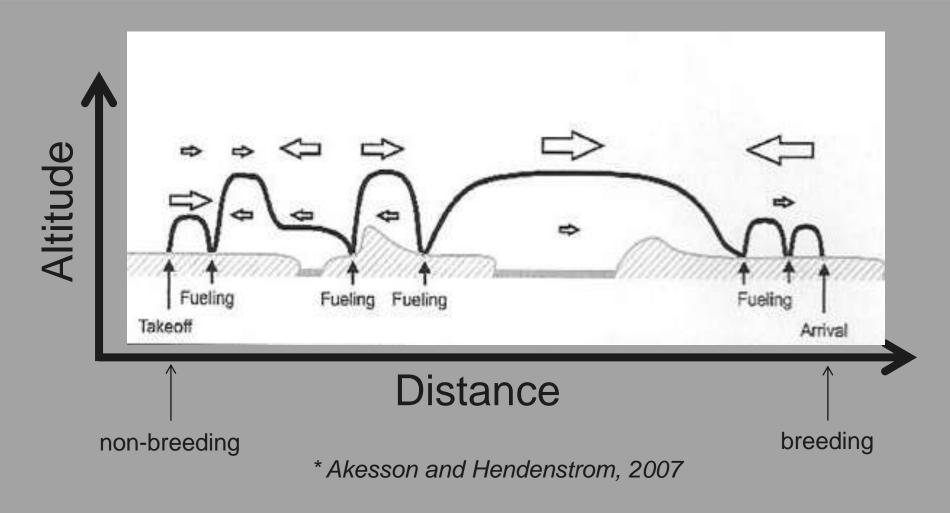


How they migrate? Stopover habitat

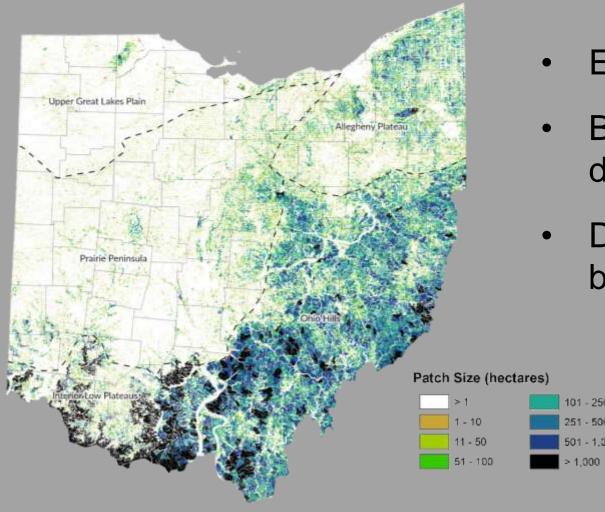


- Provide food resources and cover
- Spend 7-times longer at stopover sites than in migratory flight
- Replenishing energy at each stop important to migratory schedule
- American Restarts delay departure when in poorer condition (Dossman et al. 2018)

The importance of stopover habitat



The importance of stopover habitat



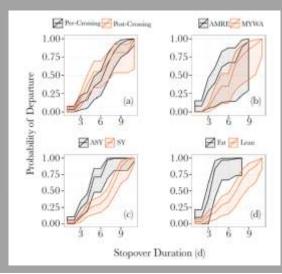
- Every forest patch helps
- Birds must make stopover decisions after each flight
- Decisions on staying or leaving based on timing and energy

Stopover habitat



 Swainson's Thrush: Day of year was primary driver reflecting pressure to move on even in urban stopover locations





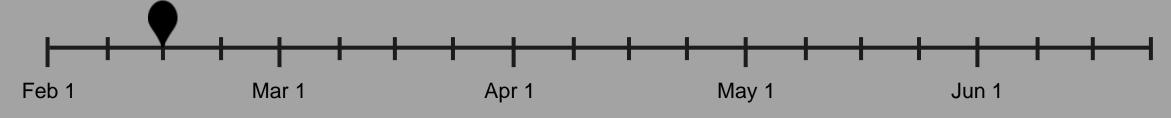
 Myrtle Warbler and American Restarts along Lake Erie show importance of refueling at critical site

Mid-February

- blackbirds
- American Woodcock
- waterfowl (beginning)



Red-winged Blackbird. Photo by Andy Reago & Chrissy McClarren (CC 2.0)



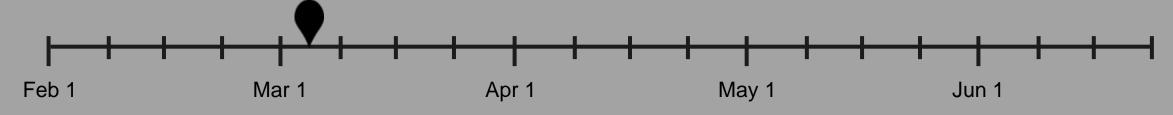
Early March

(My yard, 2021, Vinton County)

- waterfowl
- Yellow-bellied Sapsucker* February 12, 2021
- Tree Swallow
- Eastern Phoebe* February 13, 2021: VS



Eastern Phoebe. Photo by Andy Reago & Chrissy McClarren (CC 2.0)



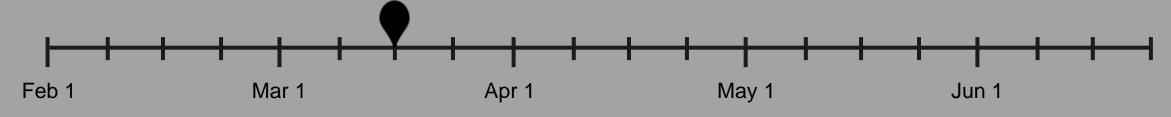
Mid-March

- waterfowl (peak)
- raptors (beginning)
- American Woodcock (territorial)

 March 3, 2021: C
- Swallows/martins (late March)



American Woodcock. Photo by Andy Reago & Chrissy McClarren (CC 2.0)



Late March to early April

- waterfowl (still strong)
- raptors (peak, slowing)
- Shorebirds (beginning)
- Yellow-bellied Sapsucker February 12, 2021
- kinglets RCKI: March 31, 2021
- Winter Wren
- Louisiana Waterthrush March 23, 2021
- Yellow-throated Warbler March 31, 2021



American Golden-Plover. Photo by Andy Reago & Chrissy McClarren (CC 2.0)

 Feb 1
 Mar 1
 Apr 1
 May 1
 Jun 1

Early to mid-April

- waders
- shorebirds continue
- Eastern Whip-poor-will
- warblers really start arriving!
 - Black-and-white Warbler
 - Palm Warbler
 - Nashville Warbler
- Blue-gray Gnatcatcher April 4, 2021

Mar 1

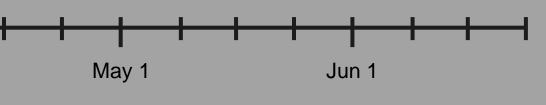
Apr 1

sparrows

Feb 1



Great Egret. Photo by Andy Reago & Chrissy McClarren (CC 2.0)

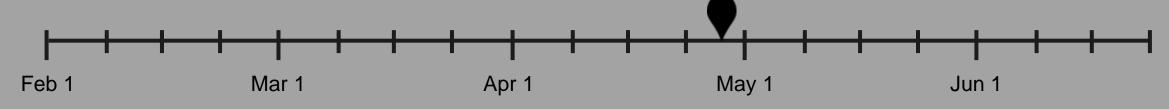


Late April through the first week of May

- vireos
- Ruby-throated Hummingbird
- House Wren
- thrushes
- warblers!!!
- orioles



Blackburnian Warbler. Photo by Andy Reago & Chrissy McClarren (CC 2.0)

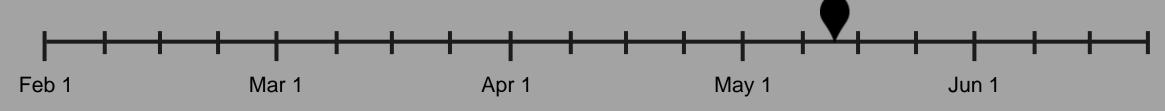


Mid-May

- shorebirds (still!)
- flycatchers
- Swainson's Thrush
- Blackpoll Warbler
- Rose-breasted Grosbeak



Willow Flycatcher. Photo by Matthew Shumar



Late May into June

- cuckoos
- Gray-cheeked Thrush
- Scarlet Tanager
- Lincoln's Sparrow
- Indigo Bunting



Indigo Bunting. Photo by Andy Reago & Chrissy McClarren (CC 2.0)



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