




Forestry for Birds

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Bird-friendly Forestry

1. Managing forest habitat for birds doesn't have to be difficult and often **aligns closely** with familiar forestry practices.

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Bird-friendly Forestry

- 1. Managing forest habitat for birds doesn't have to be difficult and often **aligns closely** with familiar forestry practices.
- 2. Learn what **bird species** rely on forests, why their presence is a quick and **dependable indicator** of forest health, and how to use this information to speak with both foresters and landowners to **maximize forest productivity** across multiple disciplines.



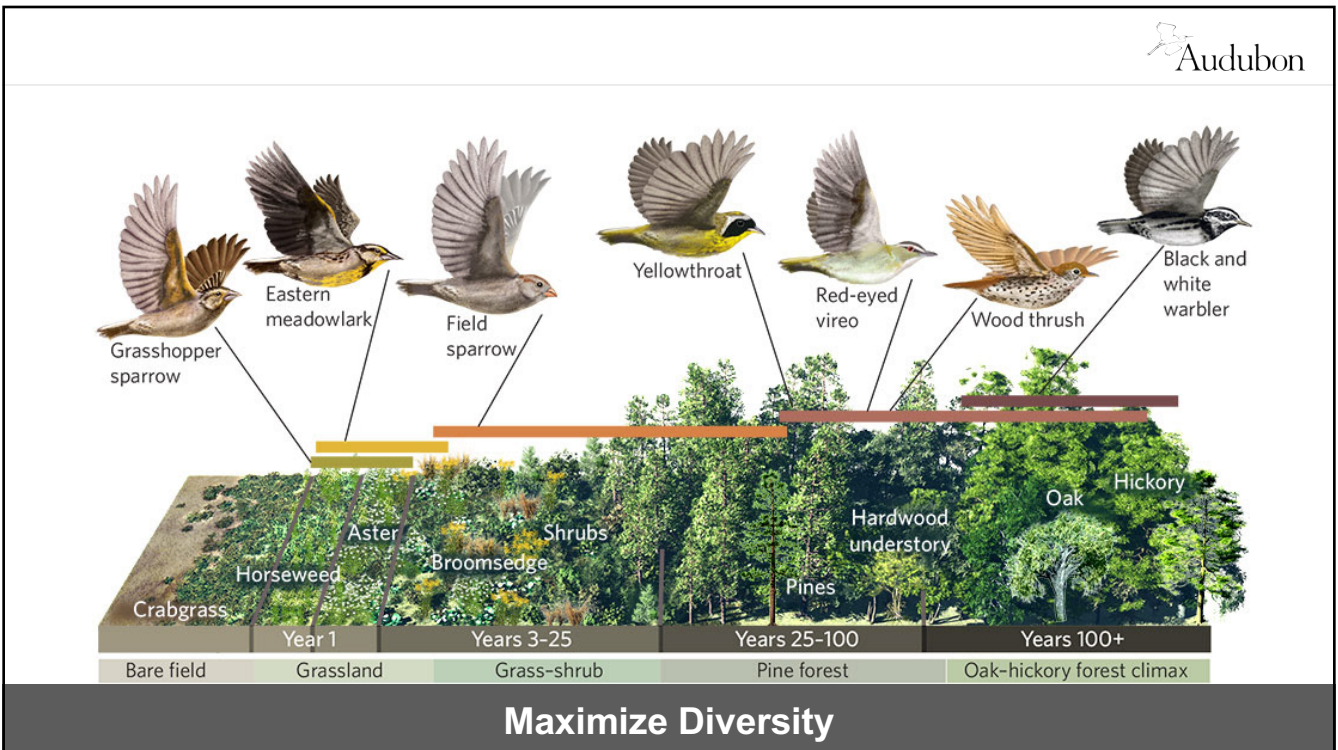
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Audubon

% Canopy Cover

Woody Debris

Tree Species Composition

Mast Crop

Basal Area

Age Class

Shrub Density

Ground Cover

Season

Decision-support Tool

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Audubon

Oak Regeneration

Ate 25%/Cached 75% (up to 5 miles away)

≤7 acorns in throat/time (Pin Oak, smaller)

50 BLJA moved 150,000 acorns in one season (one BLJA 3000-5000 acorns)

Systematically bury one by one (vs squirrels)

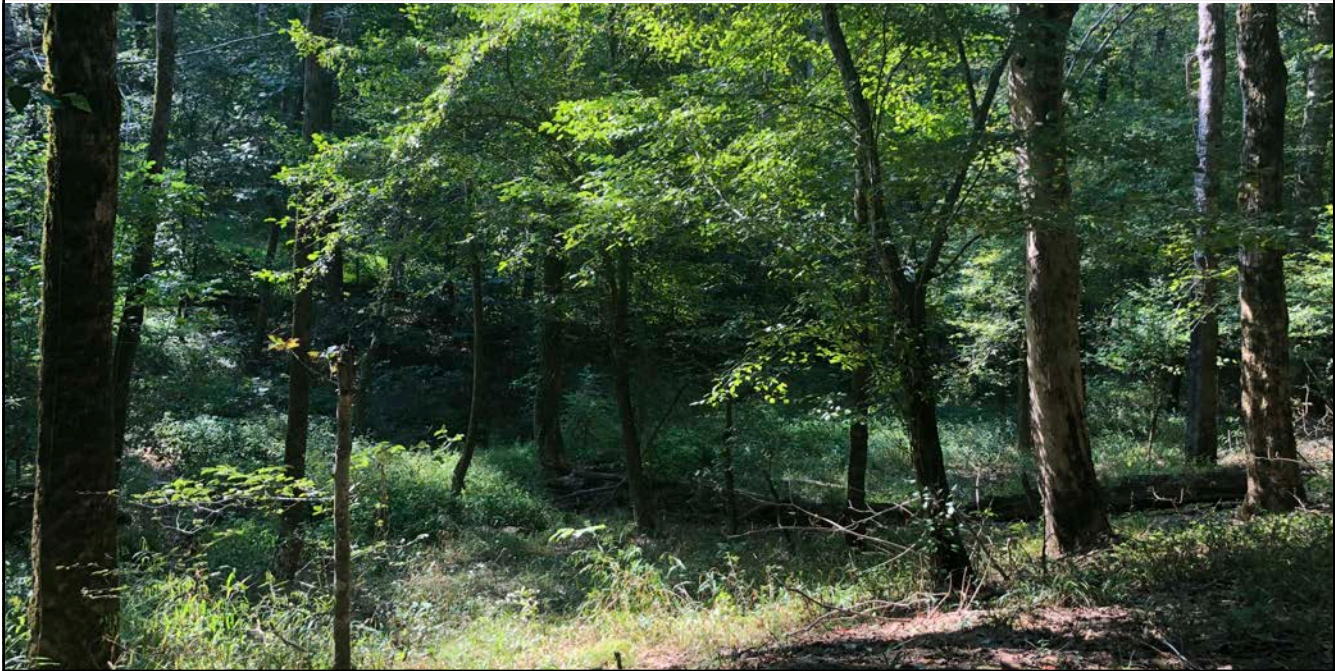
88% germination (BLJA's selection) vs 10% germination (Am. Beech)

Scatter-hoarding site selection

Ecosystem Services

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Audubon



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Audubon



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Eastern Wood-pewee

Key Attribute	Practice
Aerial forager	Canopy gaps

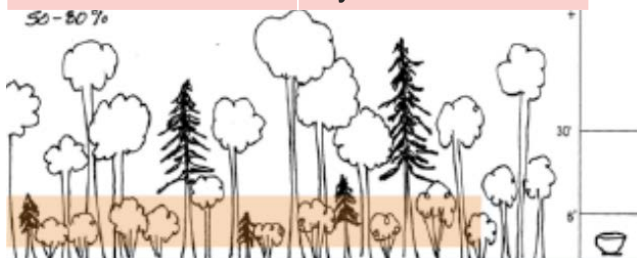


Bird Species Identification and Associated Practices

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Hooded Warbler

Key Attribute	Practice
Understory dweller	Maintain established shrub layer

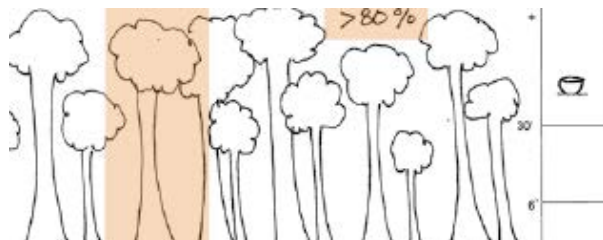


Bird Species Identification and Associated Practices

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Northern Parula

Key Attribute	Practice
Overstory dweller	Maintain adequate canopy cover

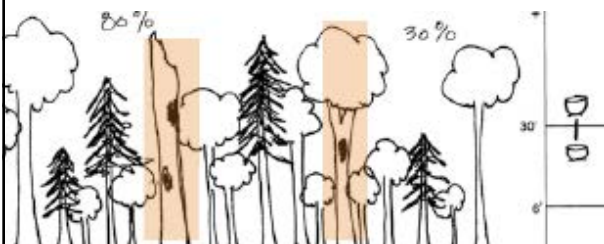


Bird Species Identification and Associated Practices

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Pileated Woodpecker

Key Attribute	Practice
Large cavity nester	Retain big snags



Bird Species Identification and Associated Practices

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Wood Thrush

Key Attribute	Practice
Large home ranges, contiguous forest	Consider landscape context



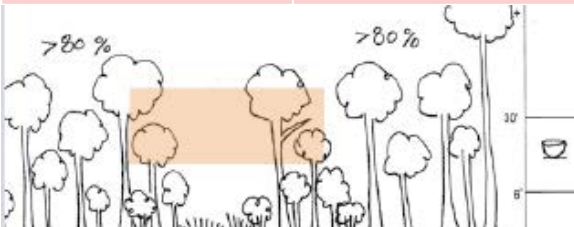
Consider seasonal soft mast →

Bird Species Identification and Associated Practices

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Yellow-billed Cuckoo

Key Attribute	Practice
Densely vegetated woodland clearings	Canopy gaps



Bird Species Identification and Associated Practices

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Prothonotary Warbler ***responsibility species***

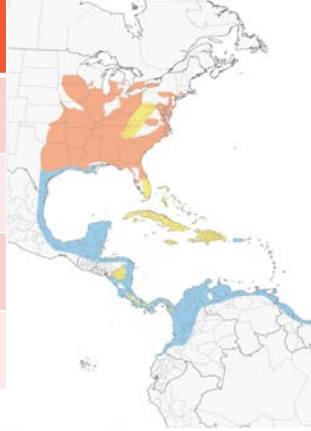
Key Attributes

Cavity nester

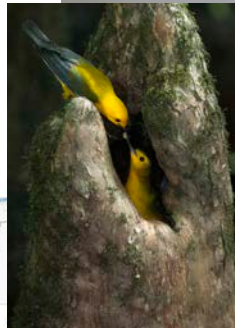
Closed canopy

Swamps/wetland

Insectivore



Distribution of the Prothonotary Warbler



Bird Species Identification and Associated Practices

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Wood Stork

responsibility species

Swainson's Warbler

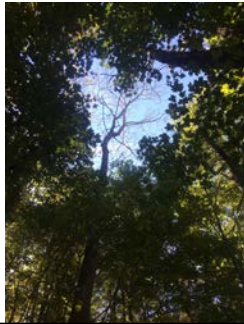


Bird Species Identification and Associated Practices

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Summary of Suggested Forestry Parameters for Hardwood-interior Birds

Canopy Cover	Gap Size	# Snags	Snag Size	Work Season
70%+	< 2 acres	4%+, 10/acre*	9-27"+	Best: September-March
* Landscape-scale. Consider your neighbors!	* Addition without subtraction	* Consider snag lifespan	* Consider # cavities	* Consider treatment effectiveness and nesting season



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What are we doing?

- Training Foresters
- Technical Assistance
- Financial Assistance – Forest Landbird Legacy Program, EQIP funding
- Recognizing Landowners
- Working to Integrate these Concepts in Planning and Drive Demand
- Growing a Network of Places to Strengthen our Impact

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Bringing it Home

1. **Birds can tell you about the health of your forest**, both as a snapshot as well as in the intricate details.
2. **Landowner objectives** have often included game bird management, but now more than ever are including songbirds and other non-game birds.
3. **Birds thrive in diverse forests.**
4. Birds can **benefit** from forest management, and fit into the **economic equation.**
5. The relationship of birds and forests is **reciprocal.**
6. **Birds need our help.**



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**Want more info or to be added to Aimee's list of Foresters or Landowners?
Contact Aimee: Aimee.Tomcho@Audubon.org or 828-419-0890**

PHOTO CREDITS: Slide 1: Hooded Warbler: Megumi Williamson. Slide 2: Red-headed Woodpecker: Kathleen Johnston. Slide 3: Black-throated Blue Warbler: Audubon. Slide 4: 28 Species Composite: Audubon Photography Awards. Slide 5: ForestHerNC: Aimee Tomcho. Slide 6: Habitat Sketch: Nicolle Fuller. Slide 7: Scarlet Tanager: Linda Steele. Slide 8: Blue Jay: Brian Kushner; Oak seedling sketch: webstockreview.net. Slide 9: NC Upland Forest: Aimee Tomcho. Slide 10: NC Bottomland Forest: Aimee Tomcho. Slide 11: Eastern Wood-pewee: Will Stuart. Slide 12: Hooded Warbler: unknown. Slide 13: Northern Parula: unknown. Slide 14: Pileated Woodpecker: unknown. Slide 15: Wood Thrush: Will Stuart; Common Spicebush: Aimee Tomcho. Slide 16: Yellow-billed Cuckoo: unknown. Slide 17: Prothonotary Warbler: unknown; PROT pair: Donald Wuori. Slide 18: Wood Stork: Jeffrey Karnes; Colonial Nest: Mark Cook; Swainson's Warbler: Will Stuart; Canoers: Aimee Tomcho. Slide 19: We love canopy gaps: Aimee Tomcho, Nest box Comic: unknown; Snag: Aimee Tomcho. Slide 20: Forest Landbird Legacy Program Recognition Sign: Aimee Tomcho. Slide 22: American Redstart: Donald Phillips.

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