

BOTTOMLAND HARDWOOD DESIRED FUTURE CONDITIONS FOR EASTERN NORTH CAROLINA

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BOTTOMLAND HARDWOOD DESIRED FUTURE CONDITIONS

- Target audience: landowners in eastern NC with interest in managing for wildlife and water quality & need to generate some income
- Literature search to describe desired structure, composition & landscape context and provide management recommendations



Prothonotary Warbler. Nahant Marsh Education Center

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FOCAL SPECIES

- Northern long-eared bat
- Rafinesque's big-eared bat
- Southeastern myotis
- Swainson's warbler
- Kentucky warbler
- Hooded warbler
- Bald eagle
- Marbled salamander
- White-tailed deer
- Wild turkey
- American woodcock
- rare fish and mussels



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FOCAL SPECIES

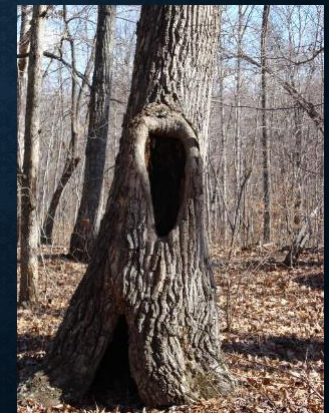
- Northern long-eared bat
- Rafinesque's big-eared bat
- Southeastern myotis



Rafinesque big eared bat-
Scott Altenbach



Shagbark hickory



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FOCAL SPECIES

- Swainson's warbler
- Kentucky warbler
- Hooded warbler



Hooded Warbler- Will Stuart



Swainson's Warbler- Will Stuart



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FOCAL SPECIES

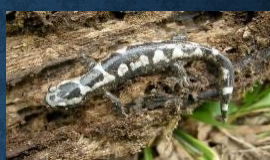
- Bald eagle



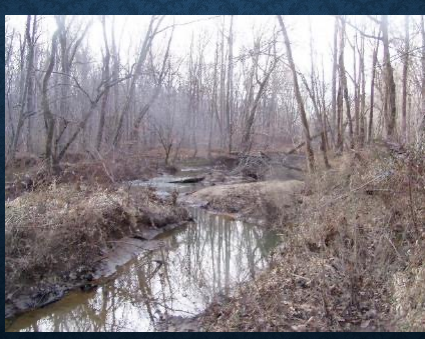
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FOCAL SPECIES

Marbled salamander



Marbled Salamander-
Anne Outlaw



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FOCAL SPECIES

- **White-tailed deer**
- **Wild turkey**
- **American woodcock**



White-tail deer



Wild Turkey- AJH



White oak



Dragon tongue- Sara Childs

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FOCAL SPECIES

Rare fish and mussels



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FORESTRY CONSIDERATIONS

- Favor species with greater commercial value
- Allow regeneration of shade intolerant species
- Manage for mixed age stand with natural regeneration



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FOREST STRUCTURE

- Average 60-70% canopy closure
- Emergent (supercanopy) trees
- Large diameter trees
- Snags and hollows
- 25-40% midstory
- Regen of desirable trees- 30-40% of understory
- Coarse woody debris
- Cane and herbaceous understory
- Few invasives



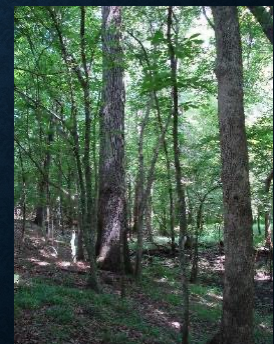
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DESIRABLE TREE SPECIES

- Hard or soft mast
- Support invertebrate diversity
- Cover or nesting substrate
- Commercial value



Black cherry



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SPECIAL HABITAT FEATURES

Protect features from logging equipment and other disturbance



Seep



Floodplain pool



Rock outcrop

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WATER QUALITY & LANDSCAPE CONTEXT

- Maintain forested stream buffers
- Restore natural hydrology where possible
- Best Management Practices
- Embedded within 10,000 contiguous forested acres (incl. uplands)



Black River- Debbie Crane

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COMMENTS/QUESTIONS/DISCUSSION



Red-shouldered hawk