## **Comparison of Wildlife Tree Guidelines for the Northeast and Maritimes**

Compiled by Robert Bryan. October 2008 Update

Author	Forest Type	Silviculture	Live decay (cavity trees and other decay trees), # per ac <sup>1</sup>	Snag, # per ac	Live wildlife tree BA/AC <sup>2</sup>	Additional Recommendations & Considerations
Tubbs et. al 1987	Northern hardwoods	Overstory Removal, Thinning, & Mature selection	1-10 >18 in.	all	1.7-17 sf/ac	
	Northern hardwoods	Pole selection	BA ≤ 10 sf		≤ 10 sf	
Elliott 1988, general (p. 18)	Not specified	All	0.4-0.5" >18" 1-1.5 14" – 18" 2-2.5 6" – 14"		≥ 1.7 sf/ac > 14"	
Elliott 1988, primary excavators (Appendix G)	Not specified	All	0.2 > 22" 6 - 12"-22"		5.2 sf/ac > 12"	
Woodley 2005	New Brunswick; (mostly spruce-fir and	Clearcuts, Shelterwood	20 > 10"	20 > 10"	10.9 sf/ac > 10"	HW species, clumps preferred
	mixedwood)	Selection	20> 10".	All possible	10.9 sf/ac > 10"	
NH FSSWT 1997 -Good Forestry in the Granite State	All	Even-aged	For every 10 acres harvested, leave uncut patches = 5% of area and > 0.25 ac. in size		-	Use cavity or den trees > 18" as patch nuclei
		Uneven-aged	≥6, with 1 >18" and 3>12"		>3.3 sf/ac > 12" (live + snag)	Leave recruitment trees where cavity tree goal not met
Pelletier 1999- Biodiversity in Forests of Maine	All	Even-aged	For every 10 acres harvested, leave uncut patch ≥ 5% of area and > 0.25 ac. in size			Use cavity or den trees > 18" as patch nuclei
		Uneven-aged	1> 24" and 3 > 14", + 3-5% total stocking as potential cavity trees and future snags		4.2 sf/ac > 14" (live + snag)	
Maine Forest Service	All	All	1 ≥ 21" 3 -15-21"	1 ≥ 21". 3 15-21"	6.1 sf/ac ≥15 in.	Draft statewide benchmark – not a stand-scale guideline
Conservation Timberland Manager	All	Uneven-aged (selection)	4 cavity/decay> 12 in., smaller if no larger trees		3.1 sf/ac >12 in.	HW species best. Extra effort on S, SE, and SW slopes.
	All	Even-aged <10 ac.	None needed if adjacent stands in uneven-aged mgmt, otherwise use uneven-aged guideline	all >12 in. considered		
	All	Even-aged >10 ac.	Uncut patches ≥5% of area		None specified	Preferably >3/4 acres. Locate around unique features and wildlife trees with survival potential

1. All values converted to per-acre basis.

2. Basal area in square feet per acre. Count of live cavity trees and other live decay trees converted to square-feet of basal area per-acre. NH Good Forestry and ME Biodiversity include live trees + snags.

## Literature Cited:

Elliott, C.A. ed. 1988. Forester's Guide to Managing Wildlife Habitats in Maine. University of Maine Coop Extension, Orono, ME.

Maine Forest Service. 2003. Biennial Report on State of the Forest and Progress Report on Sustainability Standards. Augusta, ME.

New Hampshire Forest Sustainability Standards Work Team (NH FSSWT) 1997. Good Forestry in the Granite State: Voluntary Forest Management Practices for New Hampshire. NH Division of Forest and Lands and Soc. For Protection of NH Forests.

Woodley, S. 2005. Snag and Cavity Tree Retention. p. 61-64 in Betts, M.G., and G.J. Forbes, eds., Forest Management Guidelines to Protect Native Biodiversity in the Greater Fundy Ecosystem. New Brunswick Co-operative Fish and Wildlife Research Unit, University of New Brunswick, Fredericton.

Pelletier, S. 1999. Downed woody material, snags, and cavity trees. p. 27-31 in Elliott, C.A., ed., Biodiversity in the Forests of Maine, Guidelines for Land Management. UMCE Bulletin #7147, University of Maine, Orono.

Tubbs, C.H., R.M DeGraaf, M. Yamasaki, and W.M. Healy. Guide to wildlife tree management in New England Northern Hardwoods. USDA Gen Tech Report NE-118. Northeastern Forest Experiment Station, Broomall, PA.