

Connecticut's Forest Resources, 2012

Research Note NRS-188

This publication provides an overview of forest resource attributes for Connecticut based on an annual inventory conducted by the Forest Inventory and Analysis (FIA) program at the Northern Research Station of the U.S. Forest Service. These estimates, along with [web-posted core tables](#), will be updated annually. For more information please refer to page 3 of this report.

Table 1. – Annual estimates, uncertainty, and change

	Estimate 2012	Sampling error (%)	Change since 2007 (%)
Forest Land Estimates			
Area (1,000 acres)	1,736	2.6	1.9
Number of live trees 1-inch diameter or larger (million trees)	791	4.9	-2.1
Dry biomass of live trees 1-inch diameter or larger (1,000 tons)	127,480	3.2	8.4
Net volume in live trees (1,000,000 ft ³)	4,387	3.4	8.5
Annual net growth of live trees (1,000 ft ³ /year)	103,048	7.2	5.2
Annual mortality of live trees (1,000 ft ³ /year)	27,329	14.7	3.4
Annual harvest removals of live trees (1,000 ft ³ /year)	19,453	31.3	-59.3
Annual other removals of live trees (1,000 ft ³ /year)	4,032	60.1	119.4
Timberland Estimates			
Area (1,000 acres)	1,726	2.6	3.8
Number of live trees 1-inch diameter or larger (million trees)	790	4.9	-0.6
Dry biomass of live trees 1-inch diameter or larger (1,000 tons)	127,451	3.2	9.5
Net volume in live trees (1,000,000 ft ³)	4,386	3.4	9.6
Net volume of growing-stock trees (1,000,000 ft ³)	4,052	3.6	8.8
Annual net growth of growing-stock trees (1,000 ft ³ /year)	95,819	8.0	7.1
Annual mortality of growing-stock trees (1,000 ft ³ /year)	17,859	17.9	-3.6
Annual harvest removals of growing-stock trees (1,000 ft ³ /year)	15,544	33.0	-58.0
Annual other removals of growing-stock trees (1,000 ft ³ /year)	2,368	73.5	-46.3

Note: When available, sampling errors/bars provided in figures and tables represent 68 percent confidence intervals.

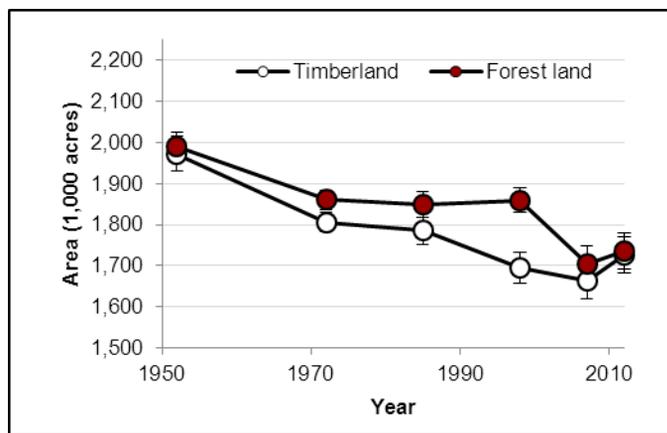


Figure 1. – Area of timberland and forest land by year.

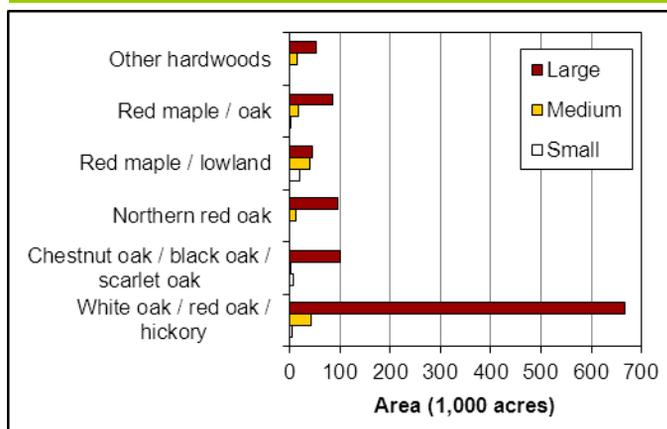


Figure 2. – Area of forest land by top six forest types and stand-size class*, 2008-2012.

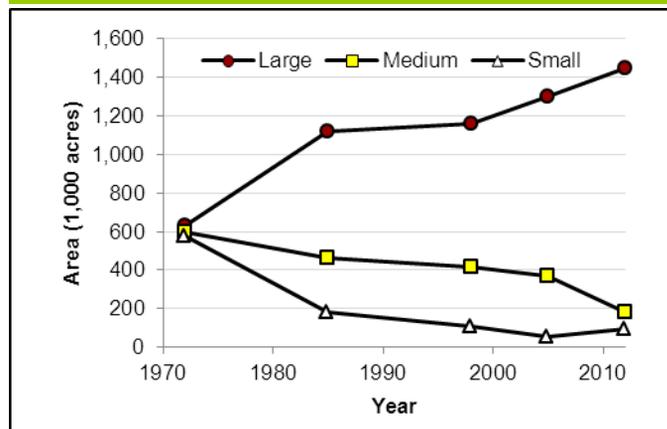


Figure 3. – Area of timberland by stand-size class* and year.

* Small: dominated by trees less than 5.0 inches d.b.h.; Medium: 5.0 to 8.9 inches d.b.h. for softwoods and 5.0 to 10.9 inches d.b.h. for hardwoods; Large: ≥ 9.0 inches for softwoods and 11.0 d.b.h. for hardwoods.



Table 2. – Top 10 tree species by statewide volume estimates, 2008-2012

Rank	Species	Volume of live trees on forest land			Volume of sawtimber trees on timberland		
		(1,000,000 ft ³)	Sampling error (%)	Change since 2007 (%)	(1,000,000 bdf)	Sampling error (%)	Change since 2007 (%)
1	Red maple	899	8.2	3.3	2,439	10.8	9.4
2	Northern red oak	603	9.8	7.0	2,412	10.4	12.2
3	Black oak	409	11.7	38.1	1,757	12.7	54.1
4	Sweet birch	317	9.5	14.8	755	13.9	23.2
5	Eastern white pine	294	19.5	-4.4	1,223	23.1	-6.4
6	White oak	280	10.5	4.1	1,076	11.9	14.9
7	Eastern hemlock	220	17.3	6.9	629	19.7	9.8
8	White ash	202	16.1	5.1	776	19.1	19.5
9	Sugar maple	191	15.4	9.7	569	19.7	2.4
10	Scarlet oak	157	16.1	-5.2	586	16.4	8.9
	Other softwoods	40	35.0	24.5	111	47.3	55.3
	Other hardwoods	776	8.0	12.2	2,576	11.2	27.5
	All Species	4,387	3.4	8.5	14,908	4.4	16.6

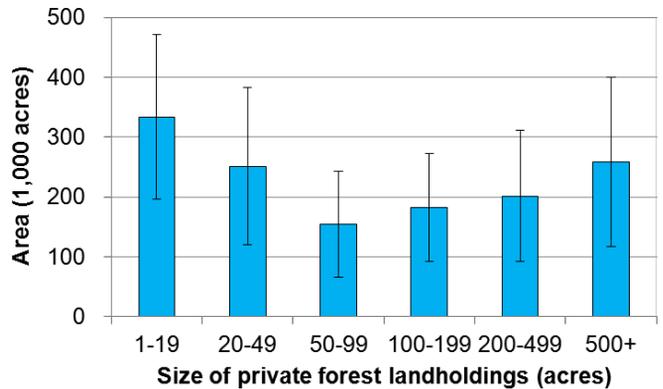
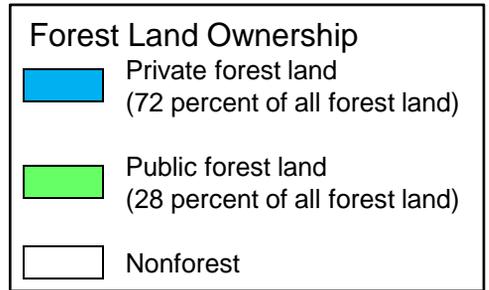
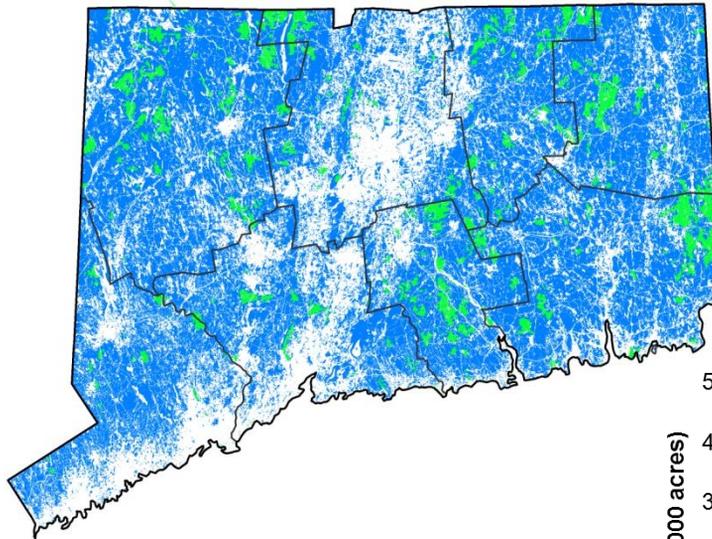


Figure 4. – Area of forest land by major owner group and size of private forest landholdings (2002-2006).



Citation for this Publication

Butler, Brett J. 2013. **Connecticut's forest resources, 2012**. Res. Note NRS-188. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 3 p.

FIA Program Information

Bechtold, W.A.; Patterson, P.L., eds. 2005. **The enhanced forest inventory and analysis program: national sampling design and estimation procedures**. Gen. Tech. Rep. SRS-80. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 85 p.

Smith, W.B. 2002. **Forest inventory and analysis: a national inventory and monitoring program**. Environmental Pollution. 116: 233-242.

USDA Forest Service. 2010. **Forest inventory and analysis national core field guide, Vol. 1, field data collection procedures for phase 2 plots, Ver. 5.0**. Washington, DC: U.S. Department of Agriculture, Forest Service. Available at <http://www.fia.fs.fed.us/library/field-guides-methods-proc/> (accessed June 25, 2012).

Additional Connecticut Inventory Information

Alerich, C. L. 2000. **Forest statistics for Connecticut: 1985 and 1998**. Resour. Bull. NE-147. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station. 104 p.

Butler, B.J.; Barnett, C.J.; Crocker, S.J.; Domke, G.M.; Gormanson, D.; Hill, W.N.; Kurtz, C.M.; Lister, T.; Martin, C.; Miles, P.D.; Morin, R.; Moser, W.K.; Nelson, M.D.; O'Connell, B.; Payton, B.; Perry, C.H.; Piva, R.J.; Riemann, R.; Woodall, C.W. 2011. **The forests of Southern New England, 2007: a report on the forest resources of Connecticut, Massachusetts, and Rhode Island**. Resour. Bull. NRS-55. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 48 p.

Dickson, D.R.; Bowers, T.M. 1976. **Forest statistics for Connecticut**. Resour. Bull. NE-44. Upper Darby, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 40 p.

Dickson, D.R.; McAfee, C.L. 1988. **Forest statistics for Connecticut – 1972 and 1985**. Resour. Bull. NE-105. Broomall, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 102 p.

Griswold, N.B.; Ferguson, R.H. 1957. **The timber resources of Connecticut**. Upper Darby, PA: U.S. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 36 p.

Wharton, E.H.; Widmann, R.H.; Alerich, C.L.; Barnett, C.H.; Lister, A.J.; Lister, T.W.; Smith, D.; Borman, F. 2004. **The forests of Connecticut**. Resour. Bull. NE-160. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northeastern Research Station. 35 p.

Acknowledgments

Special thanks to Chuck Barnett, Dacia Meneguzzo, and Bryan Tirrell for their contributions to this report. We are also grateful to Chris Martin and Rich Widmann for reviewing earlier drafts of this report.

Contact Information

Lead analyst: Brett Butler, (413) 545-1387, bbutler01@fs.fed.us

Data processing/access: Chuck Barnett, (610) 557-4031, cjbarnett@fs.fed.us

Estimates, tabular data, and maps from this report may be generated at: www.fiatools.fs.fed.us

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternate means for communication of program information (Braille, large print, audiotope, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, DC 20250-9410, or call (800)795-3272 (voice) or (202)720-6382 (TDD). USDA is an equal opportunity provider and employer.