Ohio's Forest Resources, 2008

Research Note NRS-63

This publication provides an overview of forest resource attributes for Ohio 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 4 of this report.

Table 1. – Annual estimates, uncertainty, and change

Table 1. – Annual estimates, uncertainty, and change								
	Estimate	Sampling	Change					
	2008	error	since					
		(%)	2006 (%)					
Forest Land Estimates								
Area (1,000 acres)	8,044	1.1	1.6					
Number of live trees 1-inch								
diameter or larger (million trees)	4,148	2.2	2.2					
Dry biomass of live trees 1-inch								
diameter or larger (1,000 tons) Net volume in live trees	463,810	1.7	4.0					
(1,000,000 ft ³)	4F 000	4.0	4.4					
Annual net growth of live trees	15,992	1.8	4.1					
(1,000 ft ³ /year)	483,554	5.5	*					
Annual mortality of live trees	700,004	5.5						
(1,000 ft ³ /year)	191,341	8.1	*					
Annual harvest removals of live	101,011	<u> </u>						
trees (1,000 ft ³ /year)	224,458	15.8	*					
Annual other removals of live	,							
trees (1,000 ft ³ /year)	9,899	21.8	*					
Timberland Estimates								
Area (1,000 acres)	7,834	1.2	1.9					
Number of live trees 1-inch								
diameter or larger (million trees)	4,067	2.2	2.4					
Dry biomass of live trees 1-inch								
diameter or larger (1,000 tons)	452,364	1.8	4.1					
Net volume in live trees								
(1,000,000 ft ³)	15,588	1.9	4.4					
Net volume of growing-stock								
trees (1,000,000 ft ³)	14,104	2.0	3.1					
Annual net growth of growing-								
stock trees (1,000 ft ³ /year)	409,931	5.4	*					
Annual mortality of growing-								
stock trees (1,000 ft ³ /year)	125,132	9.0	*					
Annual harvest removals of	-,							
growing-stock trees (1,000								
ft ³ /year)	177,423	15.4	*					
Annual other removals of	, ==							
growing-stock trees (1,000								
ft ³ /year)	11,712	60.9	*					

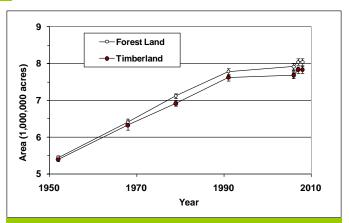


Figure 1. - Area of timberland and forest land by year.

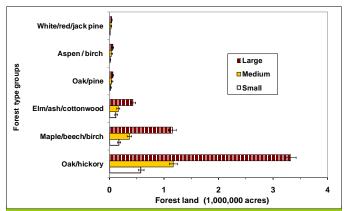


Figure 2. – Area of forest land area by top six forest types and stand size class, 2004-2008.

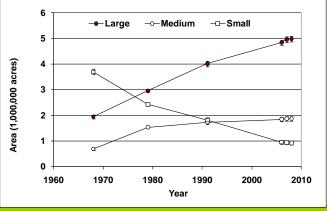


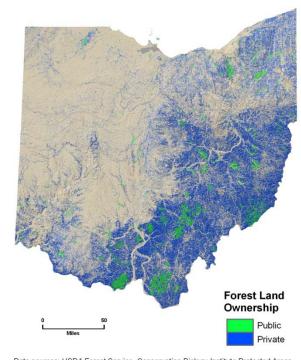
Figure 3. – Area of timberland by stand size class and year.

Due to high sampling errors for these attributes, estimates of change are not reliable at this time. Note: When available, sampling errors/bars provided in figures and tables represent 68 percent confidence intervals.

15,991.5

Rank	Species	Volume of live trees on forest land (1,000,000 ft ³)	Sampling Error (%)	Change since 2006 (%)	Volume of sawtimber trees on timberland (1,000,000 bdft)	Sampling error (%)	Change since 2006 (%)
1	Red maple	1,617.7	5.3	6.7	3,961	7.5	9.0
2	Yellow-poplar	1,550.8	7.0	5.6	6,053	8.6	6.5
3	Sugar maple	1,332.4	5.6	4.8	3,634	7.5	4.8
4	Black cherry	1,117.8	5.8	3.4	2,821	8.7	1.1
5	White ash	1,037.0	6.3	6.9	3,418	8.4	10.1
6	White oak	954.2	6.8	-0.5	3,830	8.0	0.9
7	Northern red oak	832.4	8.1	8.3	3,558	9.7	9.2
8	American beech	520.7	9.9	-2.7	1,887	12.8	-3.4
9	Black oak	499.4	9.6	5.6	2,014	11.6	6.2
10	Shagbark hickory	486.1	8.1	6.1	1,416	10.6	6.7
	Softwood species	559.2	11.8	-7.7	1,573	14.6	-12.4
	Other hardwood species	5,483.8	2.9	4.3	16,459	4.2	7.5

1.8



All species

Data sources: USDA Forest Service, Conservation Biology Institute Protected Areas Database, National Land Cover Database 2001. Geographic base data provided by the National Atlas of the USA.

Private forest land – 87 percent of all forest land

Public forest land – 13 percent of all forest land

50,624

2.6

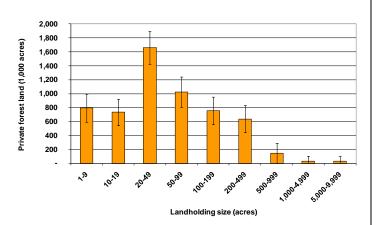


Figure 4. – Area of forest land by major owner group (2008) and size of private family forest landholding (2006).

Ohio's Family Forest Owners

Most of Ohio's forests are privately owned (Fig. 4) and of this private forest land, most is owned by families and individuals. There are an estimated 336,000 family forest owners in Ohio who own a total of 5.8 million acres of forest land or 72 percent of the State's total forested area. Along with an inventory of the biophysical characteristics of the forest, the U.S. Forest Service conducts the National Woodland Owner Survey (NWOS) to characterize the people who own these resources. The NWOS collects data on forest holding characteristics, ownership histories, ownership objectives, forest uses, forest management practices, preferred methods for receiving information, concerns, future intentions, and demographics. Below are some of the key findings for Ohio. For additional information about Ohio's family forest owners, see Butler (2008) or visit www.fia.fs.fed.us/nwos.

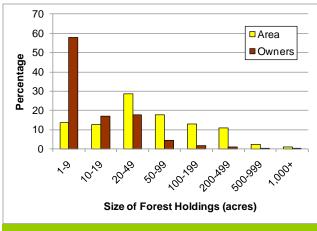


Figure 5. – Area and number of family forests in Ohio by size of forest landholdings (2006).

Demographics

Age

14% are <45 years old 55% are between 45 and 64 31% are 65 or older

- Education13% have a college degree
- Annual Household Income 45% under \$50,000 44 % \$50,000 to \$99,999 10% \$100,000 or more

Ownership

- New Owners
 32% have purchased their forestland within last 10 years
- Absentee Owners
 15% do not live on or near (within 1 mile)
 their land
- Farmers
 34% have a farm associated with their forestland

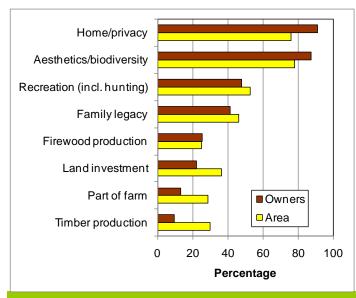


Figure 6. – Area and number of family forests in Ohio by reason for owning forest land (2006). Numbers include landowners who ranked each objective as very important (1) or important (2) on a seven-point Likert scale.

Citation for this Publication

Widmann, R.H.; Butler, B.J.; Balser, D. 2010. Ohio's forest resources, 2008. Res. Note NRS-63. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 4 p.

FIA Program Information

Bechtold, W.A.; Patterson, P.L. 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. 2005. Forest inventory and analysis national core field guide, Vol. 1, field data collection procedures for phase 2 plots, Ver. 3.0. Available at http://www.fia.fs.fed.us/library/field-guides-methods-proc/ (verified Aug. 1, 2008).

Additional information

Butler, B.J. 2008. Family forest owners of the United States, 2006. Gen. Tech. Rep. NRS-27. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 72 p.

Additional Ohio Inventory Information

Dennis, D.F.; Birch, T.W. 1981. Forest statistics for Ohio-1979. Resour. Bull. NE-68. Broomall, PA: US. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station 79. p.

Griffith, D.M.; DiGiovanni, D.; Witzel, T.; Wharton, E.H. 1993. Forest statistics for Ohio, 1991. Resour. Bull. NE-128. Radnor, PA: US. Department of Agriculture, Forest Service, Northeastern Forest Experiment Station. 169 p.

Hutchison, K.O.; Morgan, J.T. 1956. Ohio's forests and wood using industries. Forest Survey Release 19. Columbus, OH: U.S. Department of Agriculture, Forest Service, Central States Forest Experiment Station. 40 p.

Kingsley, N.P.; Mayer, C.E. 1970. The timber resources of Ohio. Resour. Bull. NE-19. Upper Darby, PA: US. Department of Agriculture. Forest Service, Northeastern Forest Experiment Station. 137 p.

Widmann, R.H.; Balser, D.; Barnet, C.; Butler, B.J.; Griffith, D.M.; Lister, T.W.; Moser, W.K.; Perry, C.H.; Riemann, R.; Woodall, C.W. 2009. Ohio's forests, 2006. Resour. Bull. NRS-36. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 119 p.

Contact Information

Lead Analyst: Richard Widmann, (610) 557-4051, rwidmann@fs.fed.us
Data processing/access: Carol Alerich, (610) 557-4068, calerich@fs.fed.us
Field data collection: Mike Effinger (304) 285-1593, meffinger@fs.fed.us

Estimates, tabular data, and maps from report may be generated at: 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, audiotape, 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.