



Missouri's Forest Resources, 2011

Research Note NRS-133

This publication provides an overview of forest resource attributes for Missouri 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.

	2011 Estimate	Sampling error (%)	Change since 2006 (%)
Forest Land Estimates			
Area (thousand acres)	15,473.5	0.7	2.6
Number of all live trees 1 inch diameter or larger (million trees)	8,336.9	1.3	-0.7
Biomass of all live trees 1 inch diameter or larger (thousand tons)	637,617.4	1.0	6.6
Net volume of live trees (million cubic feet)	20,791.0	1.1	7.0
Annual net growth of live trees (thousand ft ³ yr ⁻¹)	477,911.8	3.7	-13.8
Annual mortality of live trees (thousand ft ³ yr ⁻¹)	238,586.7	4.0	4.0
Annual harvest removals of live trees (thousand ft ³ yr ⁻¹)	173,519.5	7.9	2.4
Annual other removals of live trees (thousand ft ³ yr ⁻¹)	23,889.4	25.3	-18.6
Timberland Estimates			
Area (thousand acres)	15,086.5	0.8	3.0
Number of all live trees 1 inch diameter or larger (million trees)	8,113.5	1.3	-0.4
Biomass of all live trees 1 inch diameter or larger (thousand tons)	623,440.2	1.0	7.4
Net volume of live trees (million cubic feet)	20,340.2	1.2	7.9
Net volume of growing stock trees (million cubic feet)	16,605.8	1.3	0.3
Annual net growth of growing stock trees (thousand ft ³ yr ⁻¹)	418,667.3	3.5	-23.9
Annual mortality of growing stock trees (thousand ft ³ yr ⁻¹)	155,912.8	4.2	16.9
Annual harvest removals of growing stock trees (thousand ft ³ yr ⁻¹)	149,540.3	8.3	7.9

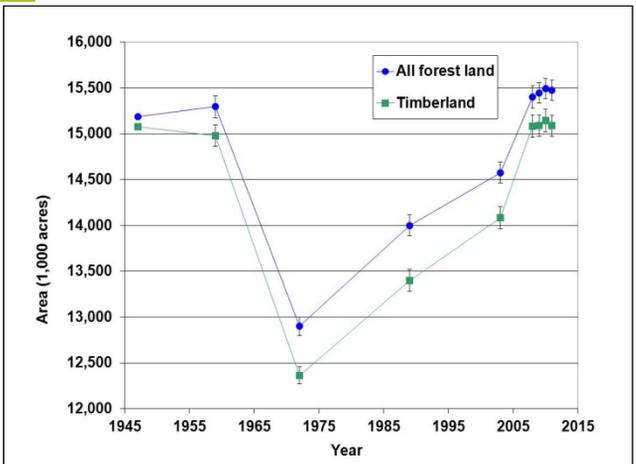


Figure 1. – Area of forest land and timberland.

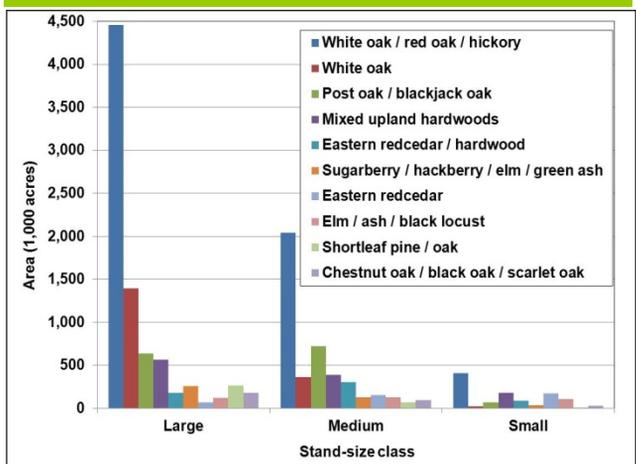


Figure 2. – Area of forest land area by stand-size class of the top ten forest types, 2011.

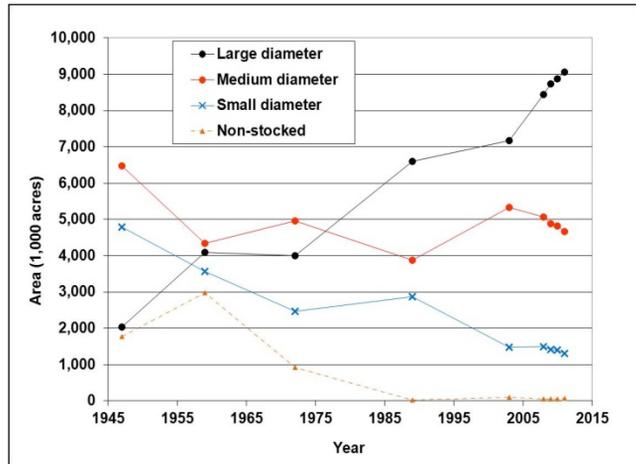


Figure 3. – Area of timberland by stand-size class and year, 1947 - 2011.



Table 2. – Top 10 tree species by statewide volume estimates, Missouri, 2011.

Rank	Species	Volume of live trees on forest land (million cubic feet)	Sampling error (%)	Change since 2006 (%)	Net volume of sawtimber trees on timberland (million board feet)	Sampling error (%)	Change since 2006 (%)
1	White oak	4,105.1	2.9	4.5	12,579.6	3.6	6.2
2	Black oak	2,883.7	3.1	-0.2	9,211.6	3.9	-2.5
3	Post oak	2,093.8	3.6	3.6	4,391.9	4.8	-2.0
4	Northern red oak	1,032.3	5.5	-1.0	3,665.0	6.6	-2.6
5	Shortleaf pine	921.1	6.8	7.3	3,914.2	7.3	14.2
6	Eastern redcedar	709.8	5.1	14.9	442.1	11.7	-62.2
7	Black walnut	674.7	6.2	18.9	1,877.3	8.2	20.5
8	Scarlet oak	624.5	6.2	-2.6	1,999.2	7.1	0.2
9	Shagbark hickory	572.1	6.1	11.9	1,434.1	8.6	17.0
10	American sycamore	439.7	12.5	17.9	1,724.8	13.9	20.7
Other softwood species		13.9	63.7	24.1	59.6	69.7	22.9
Other hardwood species		6,720.5	2.5	12.7	14,614.6	3.8	13.1
All species		20,791.0	1.1	7.0	55,914.0	1.7	4.9

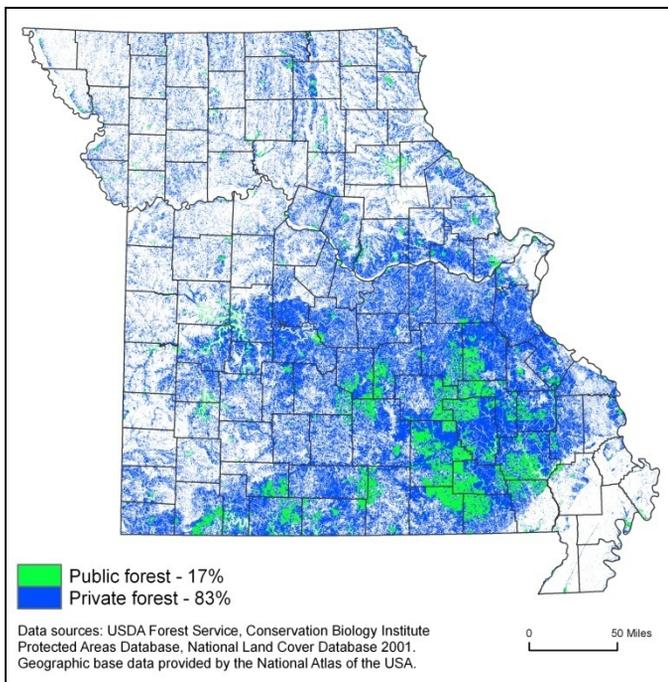


Figure 4. – Area of forest land by major owner group (public and private). White area represents nonforest.

Map courtesy of D.M. Meneguzzo.

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

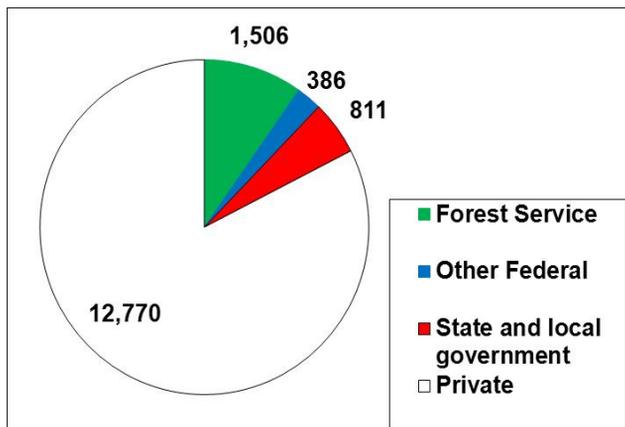


Figure 5. – Area of forest land, 2011, in thousands of acres, by major owner group.



Missouri's Timber Product Output, 2009

Primary wood-using mills in Missouri were surveyed to determine the size and composition of the State's primary wood-using industry, its use of roundwood, and the generation and disposition of wood residues. Below are some preliminary findings from that survey. A full report will soon follow as more detailed information is processed. There was 102.6 million cubic feet of industrial roundwood harvested from Missouri's forests in 2009, an 18 percent decrease from 2006. More than 90 percent of industrial roundwood harvested was processed by Missouri mills (Figure 6). Mills in Kentucky and Iowa received the majority of the industrial roundwood that was exported. Saw logs made up an 90 percent of the products harvested (Figure 7). Other products harvested were cabin logs, charcoal, cooperage, excelsior, handles, industrial fuelwood, poles, posts, and pulpwood. Nearly three-fourths of the species harvested were oaks (Figure 8). Other important species harvested were black walnut, hickory, shortleaf pine and eastern redcedar. In the process of converting industrial roundwood into products, Missouri mills generated 1.5 million green tons of residues (sawdust, slabs, edgings, etc.). A third of the mill residues were used by the charcoal industry, and another third went into miscellaneous uses such as mulch and animal bedding (Figure 9). Other secondary uses for the mill residues included industrial fuel, residential fuel, and pulp or particleboard. Only 5 percent of the mill residues were not used for any secondary products.

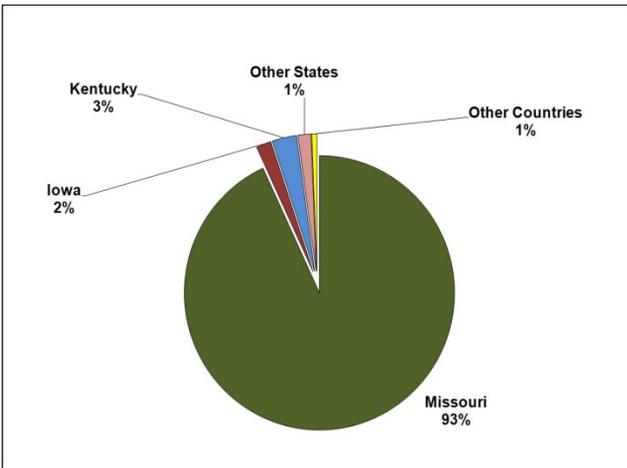


Figure 6. – Industrial roundwood production by state of destination, Missouri, 2009.

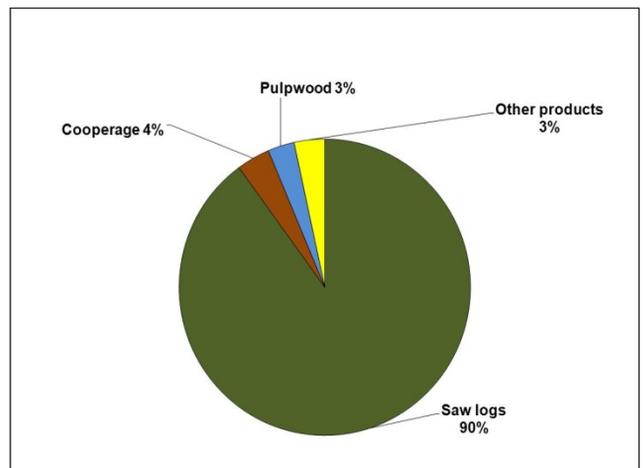


Figure 7. – Industrial roundwood production by product, Missouri, 2009.

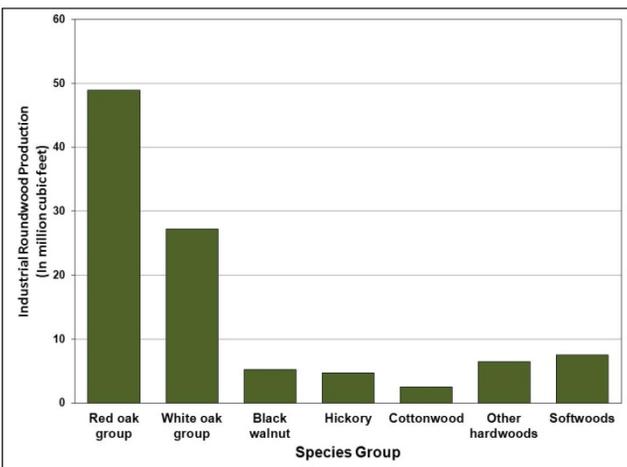


Figure 8. – Industrial roundwood production by species group, Missouri, 2009.

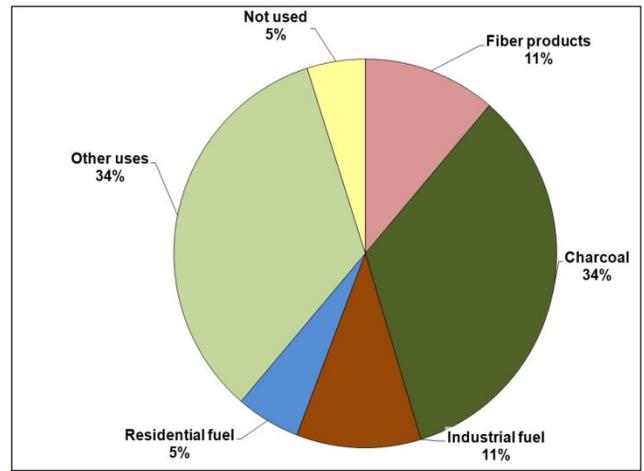


Figure 9. – Disposition of mill residues, Missouri, 2009.



Citation for this Publication

Moser, W.K.; Piva, R.J.; Treiman, T.B. 2012 **Missouri's forest resources, 2011**. Res. Note. NRS-133. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 4 p.

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Estimates, tabular data, and maps from this report may be generated at: <http://www.fia.fs.fed.us/tools-data/>

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