



# Arkansas, 2009

James F. Rosson, Jr.

## FOREST INVENTORY & ANALYSIS FACTSHEET



A 19-year-old loblolly pine plantation after second thinning, Columbia County, AR. (photo by Teddy Reynolds, Reynolds Forestry Consulting and Real Estate, Arkansas)

The summary includes estimates of forest land area (table 1), ownership (table 2), forest-type groups (table 3), volume (tables 4 and 5), biomass (tables 6 and 7), and pine plantation area (table 8) along with maps of Arkansas' survey units (fig. 1), percent forest by county (fig. 2), and distribution of pine plantations (fig. 3). The estimates are presented by survey units so users can assess resource attributes and change in the region of Arkansas in which they have the most interest.

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This annual factsheet is a brief look at some of the basic metrics that describe the status and changes undergoing forest resources in Arkansas. Estimates presented here are for the measurement year 2009 with resource changes compared against the 2008 survey year. Information for the factsheet is updated every year by means of the Forest Inventory and Analysis (FIA) annualized sample design. Arkansas has about 5,750 sample plots across the State and each year 20 percent of these plots (one panel) are visited and measured by field crews, the data compiled, and new estimates produced. It is important that users keep in mind that each year of new estimates, and the subsequent resource changes, are strongly influenced by the newest 20 percent of the sample; the older data comprise the remaining 80 percent of the sample. This small sample may result in some rather sharp spikes in estimates when comparing successive survey years but in most instances the annualized design should give a reasonable indication of directional trends in the resource such as increasing, decreasing, or no change. After 5 years of measurements, the full sample complement (a cycle) is complete and a new survey cycle begins. Because the 20 percent panel sample size is rather small, the strongest and most reliable trend information (especially that concerning magnitude of change) comes from comparing two full cycles of data.

Arkansas' factsheet is based on data processed and posted on the FIA database (FIADB) on February 11, 2011 at <http://fia.fs.fed.us/tools-data/>. Definitions can be found in the FIADB user's manual at <http://fia.fs.fed.us/tools-data/docs/default.asp>. Additional information concerning definitions and descriptive statistics can be found in the report Arkansas' Forests, 2005 (RB-SRS-166) at <http://www.srs.fs.usda.gov/pubs/34894>.

**Table 1—Area of forest land and change, by survey unit, Arkansas, 2008 and 2009**

Survey unit	2008	2009	Change
	<i>thousand acres</i>		
North Delta	1,381.9	1,384.4	2.5
South Delta	723.2	759.0	35.8
Southwest	6,786.5	6,804.4	17.9
Ouachita	3,369.9	3,371.0	1.1
Ozark	6,309.5	6,362.8	53.3
All units	18,570.9	18,681.5	110.6

**Table 2—Area of forest land and change, by ownership class, Arkansas, 2008 and 2009**

Ownership class	2008	2009	Change
	<i>thousand acres</i>		
National forest	2,546.7	2,536.3	-10.4
Other public	1,124.2	1,148.9	24.7
Forest industry	3,980.5	3,815.3	-165.2
NIPF	10,919.6	11,181.0	261.4
All classes	18,570.9	18,681.5	110.6

NIPF = nonindustrial private forest.



U.S. Department of  
Agriculture

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e-Science Update SRS-034  
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**Table 3—Area of forest land and change, by forest-type group, Arkansas, 2008 and 2009**

Forest-type group	2008	2009	Change
	<i>thousand acres</i>		
Loblolly-shortleaf	5,446.7	5,400.3	-46.4
Eastern red cedar	283.5	291.5	8.0
Oak-pine	2,015.2	2,125.0	109.8
Oak-hickory	7,850.3	7,757.9	-92.4
Bottomland hardwoods	2,816.7	2,944.8	128.1
Nontyped	158.5	162.0	3.5
All groups	18,570.9	18,681.5	110.6

**Table 6—Biomass dry weight of softwoods on forest land and change, by survey unit, Arkansas, 2008 and 2009**

Survey unit	2008	2009	Change
	<i>million pounds</i>		
North Delta	19,793.1	18,825.4	-967.7
South Delta	6,273.1	6,581.8	308.7
Southwest	248,936.3	247,516.3	-1,420.0
Ouachita	118,747.8	120,095.5	1,347.7
Ozark	73,187.7	75,336.7	2,149.0
All units	466,938.0	468,355.7	1,417.7

**Table 4—Volume of softwoods on forest land and change, by survey unit, Arkansas, 2008 and 2009**

Survey unit	2008	2009	Change
	<i>million cubic feet</i>		
North Delta	478.1	457.1	-21.0
South Delta	157.4	165.5	8.1
Southwest	5,840.7	5,793.1	-47.6
Ouachita	2,828.1	2,858.1	30.0
Ozark	1,681.1	1,720.8	39.7
All units	10,985.4	10,994.7	9.3

**Table 7—Biomass dry weight of hardwoods on forest land and change, by survey unit, Arkansas, 2008 and 2009**

Survey unit	2008	2009	Change
	<i>million pounds</i>		
North Delta	120,065.7	122,095.1	2,029.4
South Delta	69,826.7	73,653.6	3,826.9
Southwest	287,109.5	289,406.0	2,296.5
Ouachita	148,303.0	149,666.2	1,363.2
Ozark	462,010.8	467,205.7	5,194.9
All units	1,087,315.7	1,102,026.6	14,710.9

**Table 5—Volume of hardwoods on forest land and change, by survey unit, Arkansas, 2008 and 2009**

Survey unit	2008	2009	Change
	<i>million cubic feet</i>		
North Delta	2,268.9	2,297.5	28.6
South Delta	1,271.8	1,326.4	54.6
Southwest	4,777.6	4,805.8	28.2
Ouachita	2,316.3	2,322.8	6.5
Ozark	7,596.0	7,636.2	40.2
All units	18,230.6	18,388.7	158.1

**Table 8—Area of forest land in plantations and change, by survey unit, Arkansas, 2008 and 2009**

Survey unit	2008	2009	Change
	<i>thousand acres</i>		
North Delta	212.3	227.6	15.3
South Delta	31.6	37.7	6.1
Southwest	2,140.0	2,158.8	18.8
Ouachita	583.9	607.9	24.0
Ozark	252.8	243.5	-9.3
All units	3,220.5	3,275.4	54.9

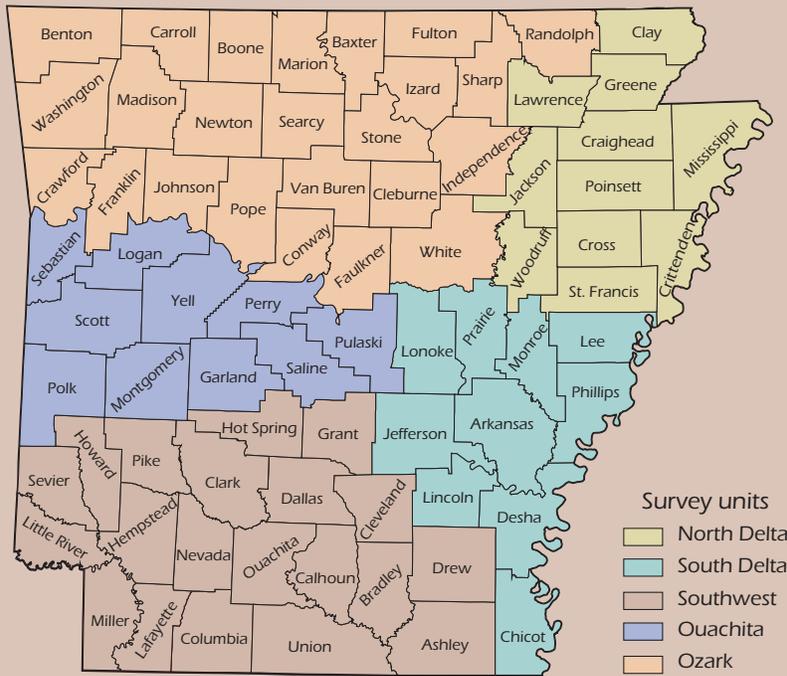


Figure 1—Forest survey units in Arkansas, 2009.

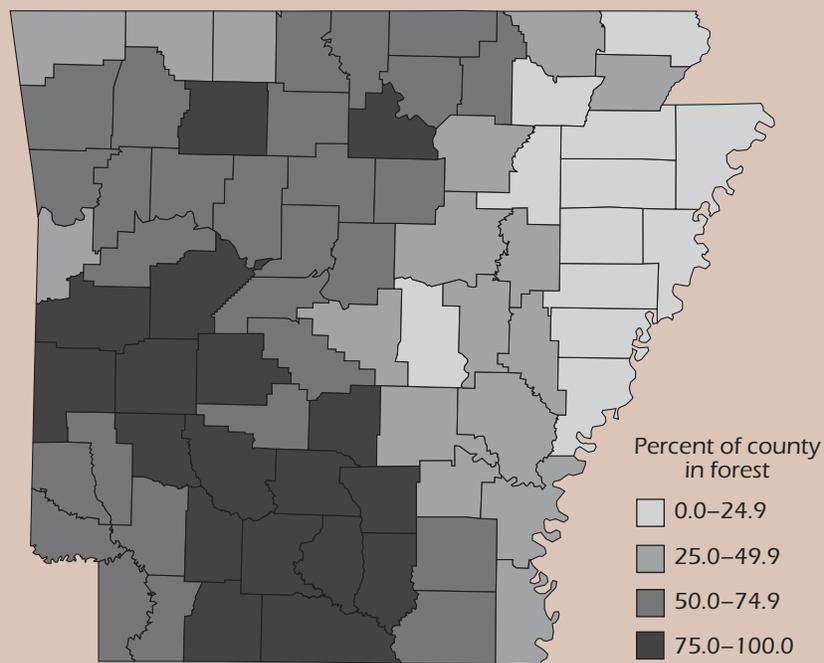


Figure 2—Percent of county area in forest land, Arkansas, 2009.

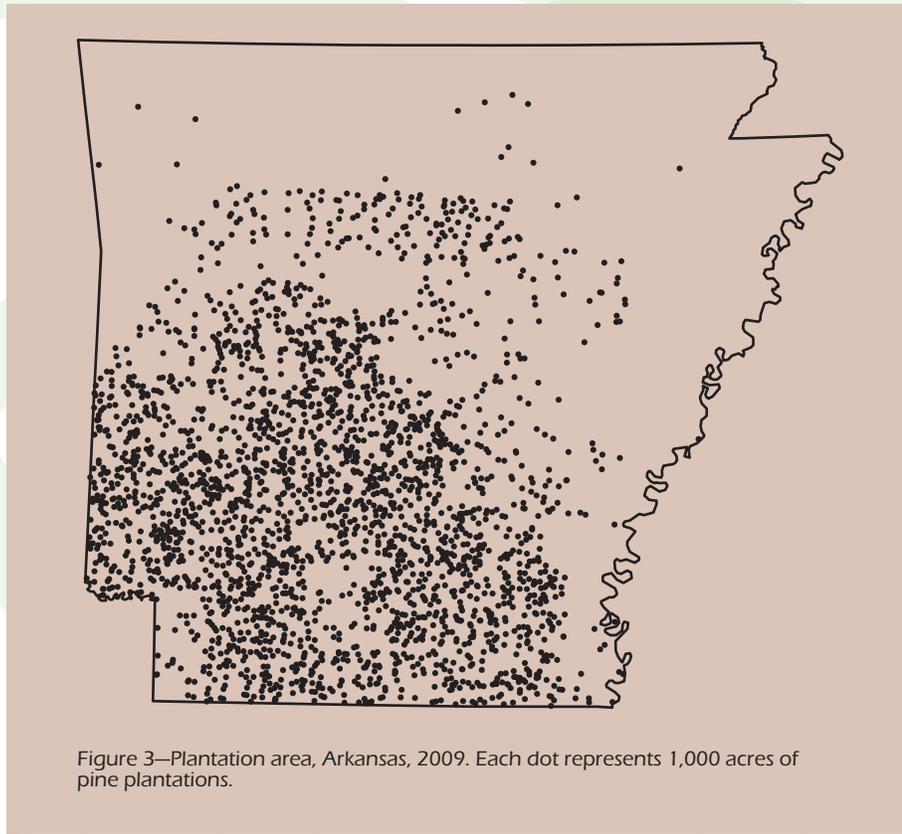


Figure 3—Plantation area, Arkansas, 2009. Each dot represents 1,000 acres of pine plantations.

## How to Cite This Publication

Rosson, James F., Jr. 2011. Arkansas, 2009 forest inventory and analysis factsheet. e-Science Update SRS-034. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 4 p.

Poison Springs State Forest. (photo by Keith Stock, Arkansas Forestry Commission)

## Contact Information

**James F. Rosson, Jr., Research Forester**  
Forest Inventory and Analysis  
Southern Research Station, USDA Forest Service  
4700 Old Kingston Pike  
Knoxville, TN 37919  
Phone: 865-862-2067 / Fax: 865-862-2048  
Email: [jrosson@fs.fed.us](mailto:jrosson@fs.fed.us)  
Southern FIA: <http://srsfia2.fs.fed.us>  
National FIA: <http://fia.fs.fed.us>

**Darren Spinks, FIA Coordinator**  
Arkansas Forestry Commission  
3821 W. Roosevelt Blvd.  
Little Rock, AR 72204  
Phone: 501-296-1937 / Fax: 501-296-1949  
Email: [darren.spinks@arkansas.gov](mailto:darren.spinks@arkansas.gov)  
[www.arkansasforestry.org](http://www.arkansasforestry.org)



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