USDA Forest Service, U.S. Department of Agriculture
Northern Research Station

Kansas' Forest Resources, 2011

Research Note NRS-130

This publication provides an overview of forest resource attributes for Kansas 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. More comprehensive reports with key findings and definitions are reported every 5 years (Moser et al. 2008).

Table 1. – Annual estimates, uncertainty, and change

	2011 estimate	Sampling error (%)	Change since 2006 (%)
Forest Land Estimates			
Area of forest land (thousand acres)	2,502.4	3.0	18.9
Number of all live trees on forestland (million trees)	819.3	4.7	11.5
All live tree and sapling aboveground biomass on forest land oven-dry (thousand tons)	84,046.1	4.0	10.8
Volume of all live on forest land (million ft^3)	3,144.0	4.6	10.3
Annual net growth of all live on forest land (thousand ft^3 per year)	92,063.0	8.6	88.6
Annual mortality of all live on forest land (thousand ft^3 per year)	45,454.0	10.1	18.6
Annual harvest removals of all live on forest land (thousand ft^3 per year)	23,141.6	25.2	206.9
Annual other removals of all live on forest land (thousand ft^3 per year)	4,079.4	39.0	NA
Timberland Estimates			
Area of timberland (thousand acres)	2,406.5	3.1	19.2
Number of all live trees on timberland (million trees)	780.9	4.7	13.0
All live tree and sapling aboveground biomass on timberland oven-dry (thousand tons)	81,698.6	4.1	11.2
Volume of all live on timberland (million ft^3)	3,069.0	4.7	10.5
Volume of growing-stock on timberland (million ft^3)	1,436.0	6.8	-0.5
Annual net growth of growing-stock on timberland (thousand ft^3 per year)	43,016.7	10.2	133.9
Annual mortality of growing-stock on timberland (thousand ft^3 per year)	14,929.2	16.6	4.1
Annual harvest removals of growing-stock on timberland (thousand ft^3 per year)	10,226.5	33.1	127.3
Annual other removals of growing-stock on timberland (thousand ft^3 per year)	3,632.0	56.8	-4.4

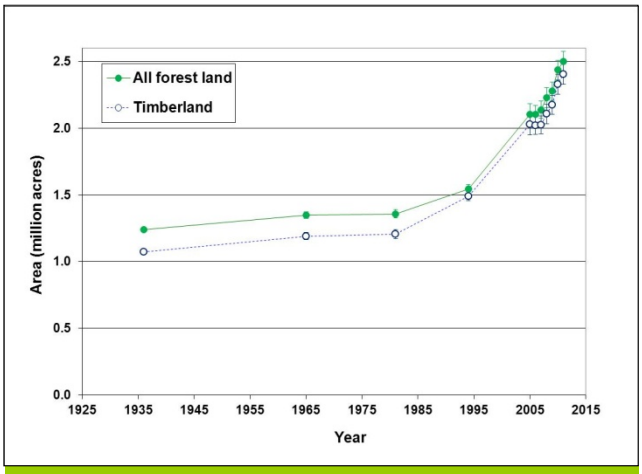

Figure 1. – Area of timberland and forest land.

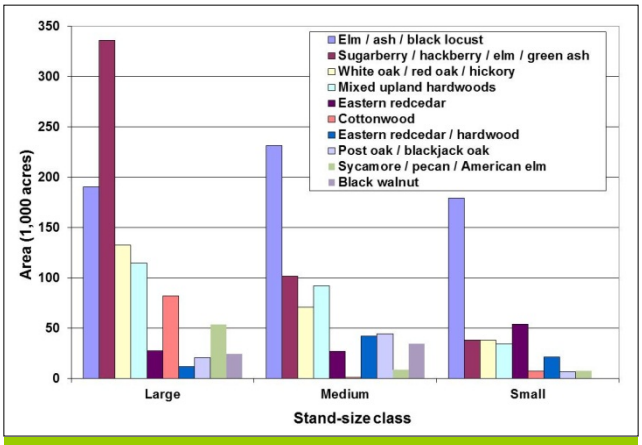

Figure 2. – Area of forest land by top ten forest types and stand-size class, 2011.

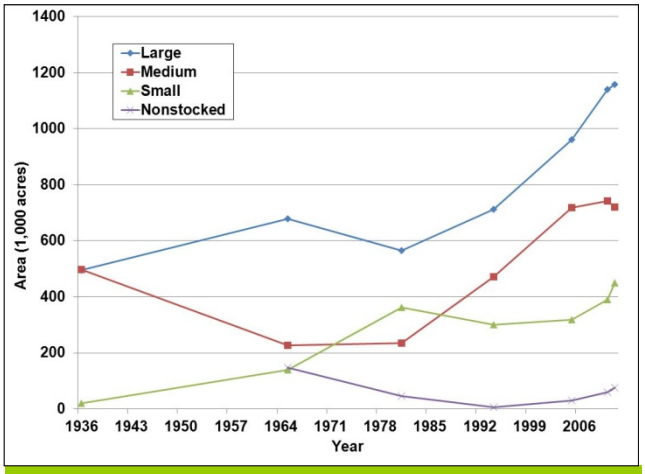

Figure 3. – Area of timberland by stand-size class and year, 1936 – 2011.

Table 2. – Top 10 tree species by statewide volume estimates, Kansas, 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	Hackberry	438.1	10.4	16.6	938.0	15.0	23.3
2	Cottonwood	373.8	23.6	12.3	1,043.3	26.8	-4.3
3	American elm	247.1	9.0	12.2	198.4	22.9	20.2
4	Green ash	244.0	11.5	8.8	420.3	17.8	17.6
5	Osage-orange	232.4	10.9	28.0	0.0	0.0	0.0
6	Black walnut	194.9	10.0	12.4	399.8	13.9	-2.5
7	Mulberry	147.5	14.6	9.3	35.2	49.0	-36.3
8	Bur oak	145.4	18.1	-6.3	345.7	24.7	-0.9
9	Honeylocust	127.5	14.4	28.4	57.8	42.1	-5.6
10	American sycamore	108.8	35.9	16.7	490.5	41.4	12.1
Other softwood species		114.4	13.5	30.3	78.2	35.2	-46.6
Other hardwood species		770.1	7.6	-0.1	1,444.8	12.6	-4.4
All species		3,144.0	4.6	10.3	5,452.0	8.3	2.0

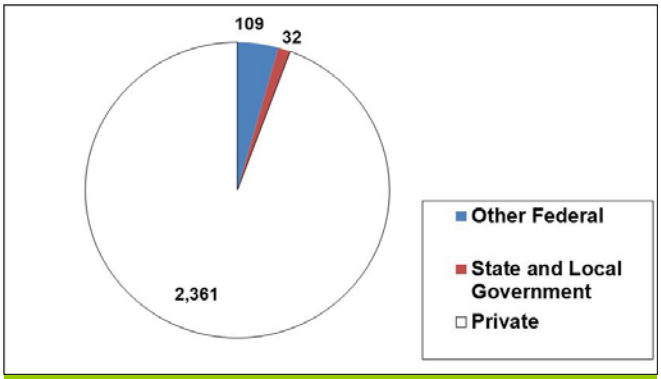

Figure 4. – Area of forest land in 2011 by major owner group, in thousands of acres.

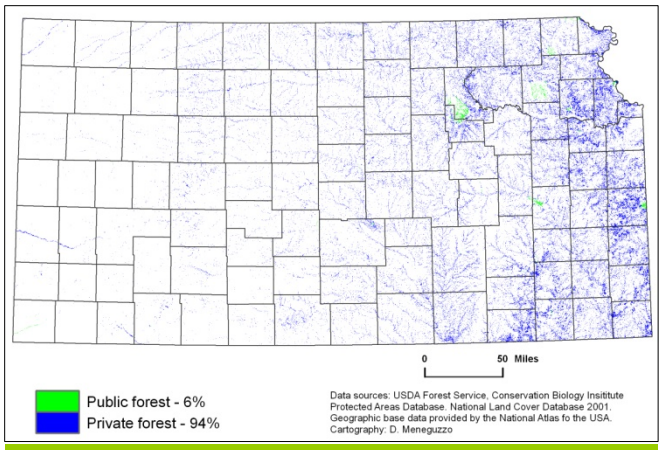

Figure 5. – Area of forest land by public and private. White area represents nonforest.

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

Kansas's Timber Product Output, 2009

Primary wood-using mills in Kansas 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 were 1.7 million cubic feet of industrial roundwood harvested from Kansas's forests in 2009, a 49 percent decrease from 2003. In 2009, there were 45 active primary wood-processing mills that were surveyed to determine the species that were processed and where the wood material came from. These mills processed 1.1 million cubic feet of saw logs into lumber and pallets. More than 55 percent of industrial roundwood harvested was processed by Kansas mills (Figure 6). Mills in Missouri and Iowa received the majority of the industrial roundwood that was exported. Saw logs made up 98 percent of the products harvested (Figure 7). Black walnut accounted for 43 percent of the volume harvested (Figure 8). Other important species harvested were cottonwood, white oak, soft maple, red oak, and ash. In the process of converting industrial roundwood into products, Kansas mills generated 16,600 green tons of residues (sawdust, slabs, edgings, etc.). Nearly half (46 percent) of the mill residues were used by the mulch industry, and 34 percent went into miscellaneous uses such as animal bedding, small dimension and specialty products (Figure 9). Other secondary uses for the mill residues included industrial and residential fuel. Almost 9 percent of the mill residues were not used for any secondary products.

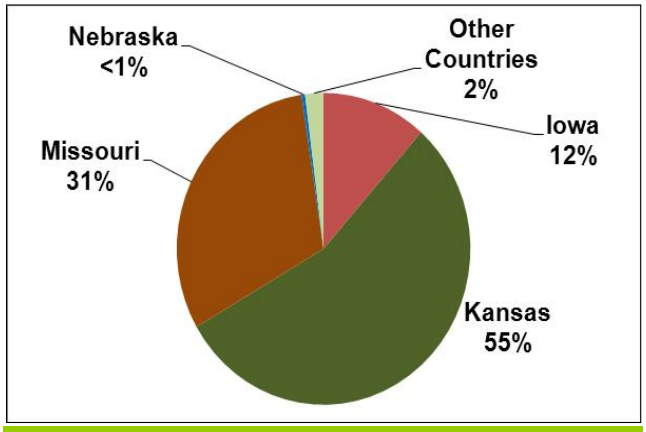

Figure 6. – Industrial roundwood production by state of destination.

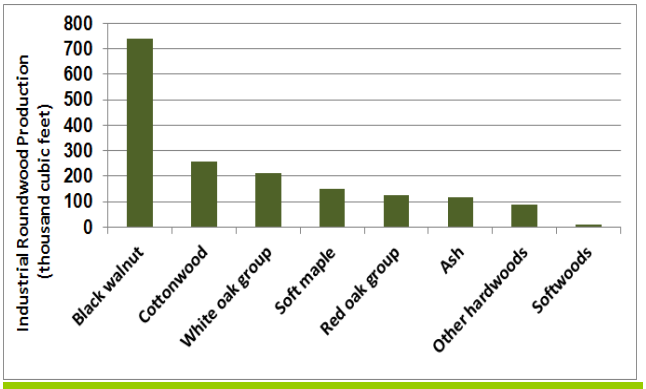

Figure 8. – Industrial roundwood production by species group.

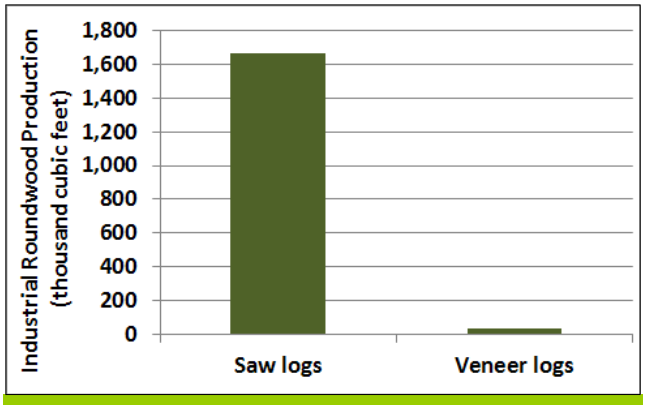

Figure 7. – Industrial roundwood production by product.

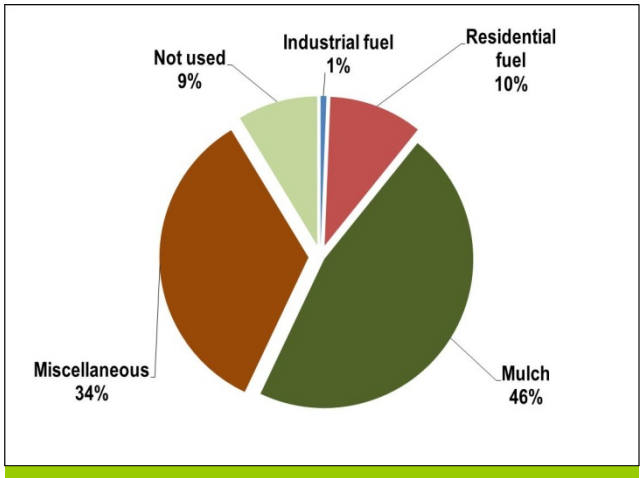

Figure 9. – Disposition of mill residues.

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Additional Kansas Inventory Information

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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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