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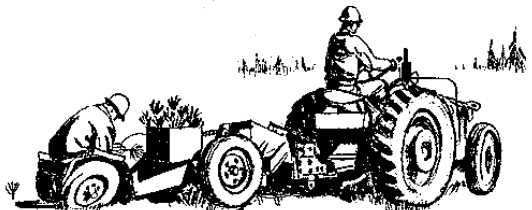
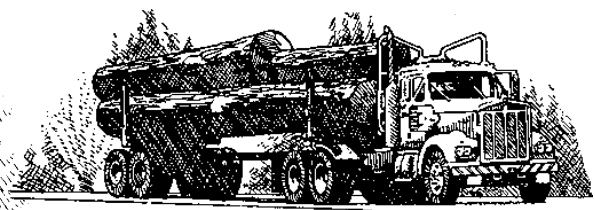
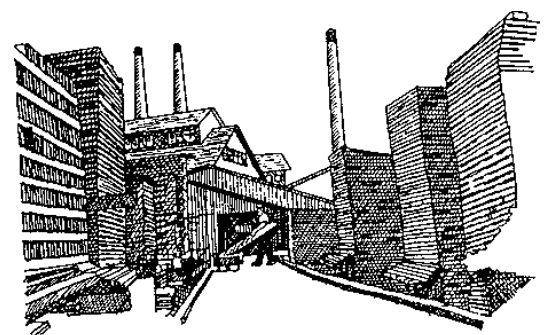
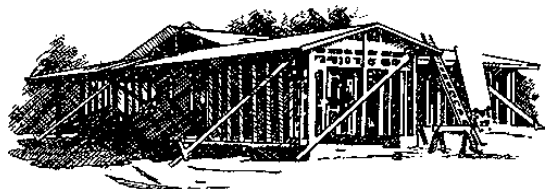


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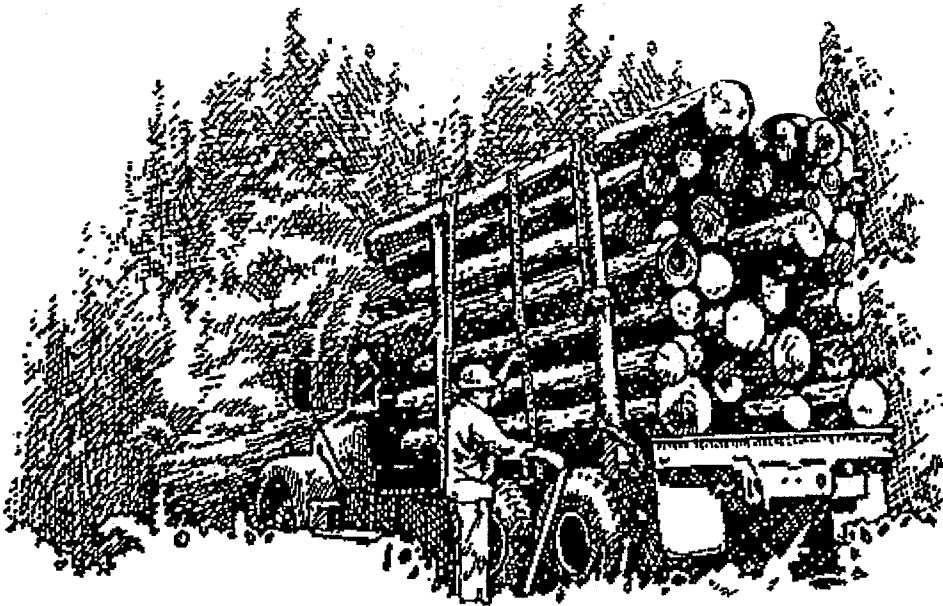
Tennessee's Timber Industry— An Assessment of Timber Product Output and Use, 1995

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Foreword

This report contains the findings of a 1995 canvass of all primary wood-using plants in Tennessee. It complements the Forest Inventory and Analysis (FIA) periodic inventory of volume and removals from the State's timberland. The canvass was conducted to determine the amount and source of wood receipts and annual timber product drain by county in 1995 and to determine interstate and cross-regional movement of industrial roundwood. Primary mills are those that process roundwood in log or bolt form or as chipped roundwood. Examples of industrial roundwood products are saw logs, pulpwood, veneer logs, poles, and logs used for composite board products. Mills producing products from residues generated at primary and secondary processors were not canvassed. Trees chipped in the woods were included in the estimate of timber drain only if they were delivered to a primary domestic manufacturer.

A 100-percent canvass of wood processors in Tennessee was conducted in 1996 to obtain information for 1995. In

addition, roundwood from out-of-State mills known to be using logs or bolts harvested from Tennessee timberland was incorporated into Tennessee production estimates. Each mill was canvassed by mail or through personal contact at plant locations.

Pulpwood production data were taken from an annual canvass of all southern pulpmills. Medium density fiberboard, insulating board, and hardboard plants were included in this survey.

The Southern Research Station gratefully acknowledges the cooperation and assistance provided by the Tennessee Department of Agriculture, Division of Forestry, in collecting mill data. Appreciation is also extended to forest industry and mill managers for providing timber products information. The information in this report is based on responses from 503 mills operating in 1995: 495 sawmills, 5 pulpmills, 2 veneer mills, and 1 mill manufacturing other industrial products.

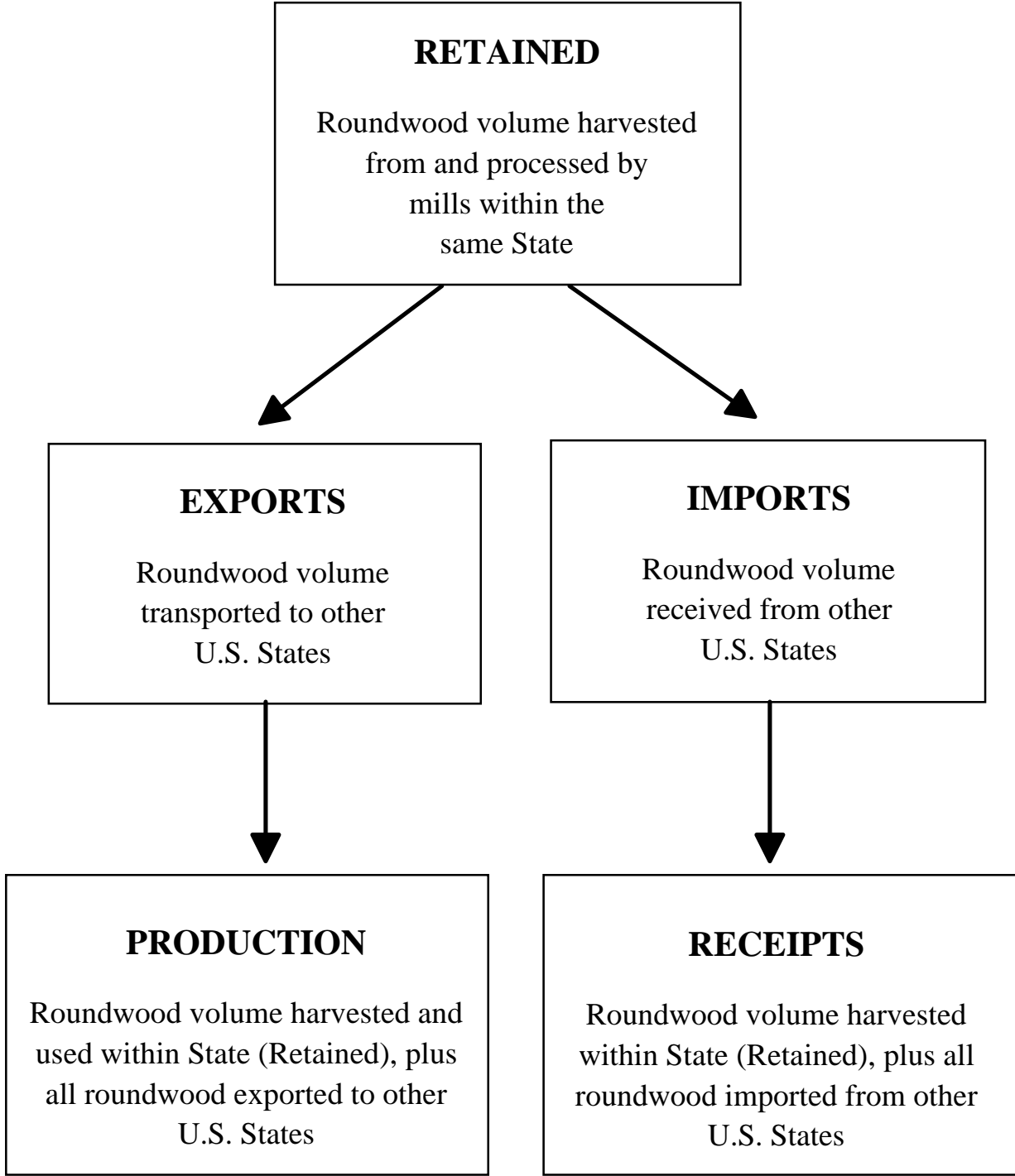


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^a All tables in this report are available in Microsoft® Excel workbook files. Upon request, these files will be supplied on 3½-inch diskettes.

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Production = Retained + Exports

Receipts = Retained + Imports

Figure 1—Movement of roundwood exports and imports within the United States.

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Output of Industrial Timber Products

Note: The reader must understand that certain terms, namely—retained, export, import, production, and receipts—have specialized meanings and relationships unique to the Forest Inventory and Analysis Units across the country that deal with timber products output (fig. 1).

- In 1995, the industrial timber products output (TPO) was 396 million cubic feet, 284 million cubic feet from roundwood and 112 million cubic feet from plant byproducts.
- Output of softwood roundwood products equaled 64.6 million cubic feet, while output of hardwood roundwood products equaled 219 million cubic feet (fig. 2).

- Pulpwood and saw logs were the principal roundwood products in 1995. Combined, they totaled 277 million cubic feet and accounted for 98 percent of the State's total roundwood output (fig. 3).
- Total receipts at Tennessee mills, which included roundwood harvested and retained in the State and roundwood imported from other States, was 262 million cubic feet. The number of primary roundwood-using plants in Tennessee was 503 in 1995.

Saw Logs

- Saw logs accounted for 59 percent of the State's total roundwood products. Output of softwood saw logs was 15 million cubic feet (84 million board feet), while that of hardwood saw logs was 152 million cubic feet (920 million board feet) (fig. 4).

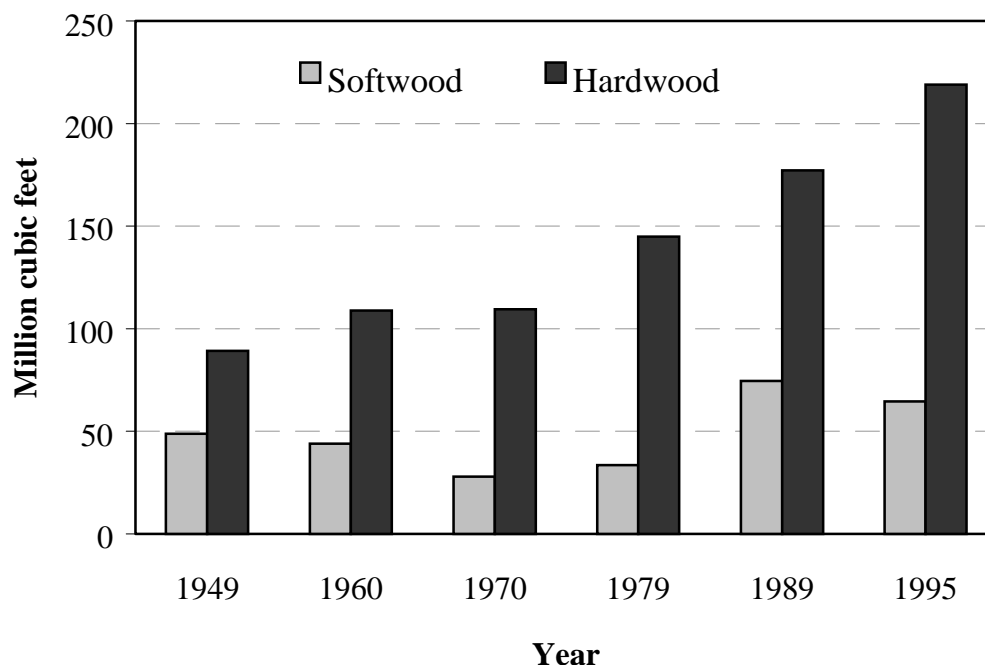


Figure 2—Roundwood production for all products by species group and year (see page 5 for references for individual years).

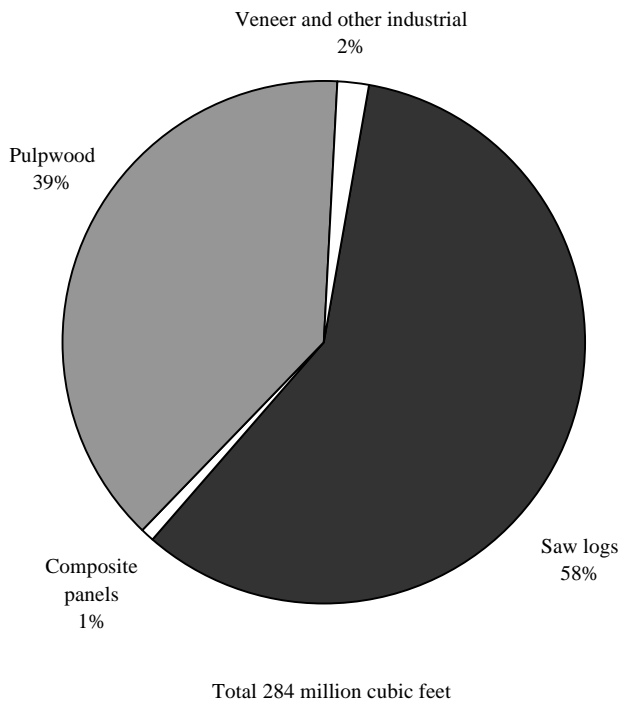


Figure 3—Roundwood production by type of product, 1995.

- In 1995, Tennessee had 495 sawmills. Total saw-log receipts reached 169 million cubic feet. Softwood saw-log receipts were 14 million cubic feet, while those of hardwoods were 155 million cubic feet. Of the operating mills, 58 percent had receipts less than 1 million board feet, and 32 percent had receipts between 1 and 4.99 million board feet. Seven percent of the mills had receipts between 5 and 9.99 million board feet. Only 3 percent of the operating mills had receipts greater than 10.0 million board feet, however, those mills accounted for nearly a third of the total saw-log output.
- Tennessee retained 90 percent of its saw-log production for domestic manufacture, with saw-log imports exceeding exports by 2 million cubic feet in 1995.

Pulpwood

- Pulpwood production was 109 million cubic feet and accounted for 39 percent of the State's total roundwood TPO. Softwood output was 45 million cubic feet (618 thousand cords), while hardwood output reached 64 million cubic feet (841 thousand cords) (fig. 5).
- Five pulpmill facilities were operating and receiving roundwood in 1995. Pulpwood receipts were 89 million cubic feet, accounting for 34 percent of total receipts for all mills.

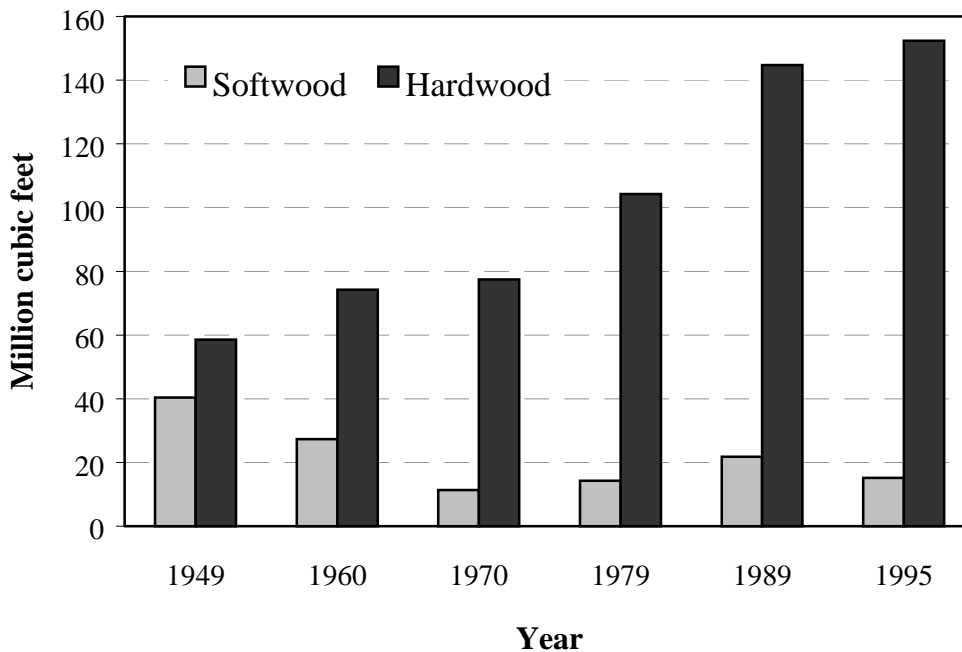


Figure 4—Roundwood saw-log production by species group and year (see page 5 for references for individual years).

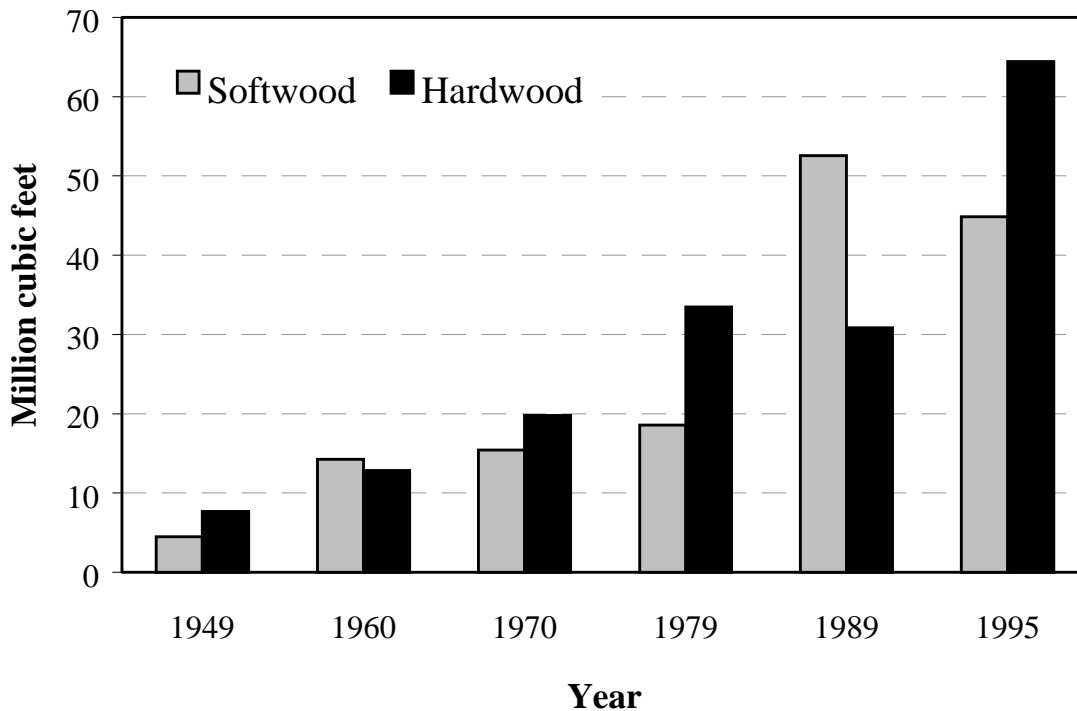


Figure 5—Roundwood pulpwood production by species group and year (see page 5 for references for individual years).

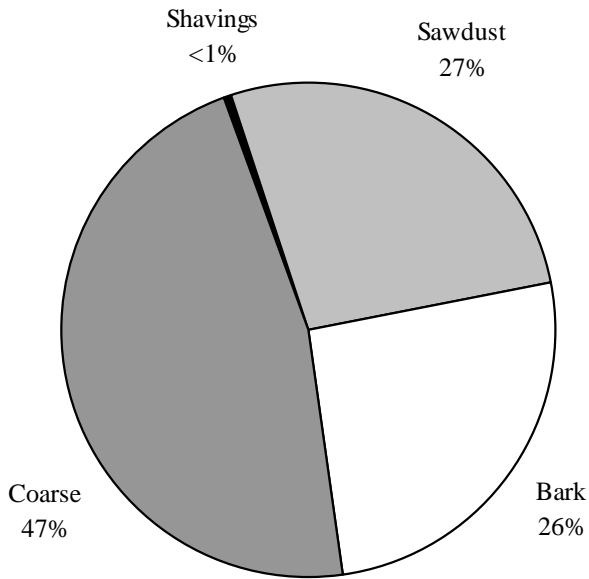
- Forty-three percent of roundwood cut for pulpwood was retained for processing at Tennessee pulpmills. Roundwood pulpwood accounted for 76 percent of total known exports and 70 percent of total imports. Roundwood pulpwood exports was 62 million cubic feet, or 20 million cubic feet more than was imported.

Veneer and Other Industrial Products

- Combined output of veneer and other industrial products was 6 million cubic feet and accounted for 2 percent of the State's total roundwood TPO volume. Softwood production totaled 4 million cubic feet, while output of hardwood was 2 million cubic feet.
- Tennessee had 2 veneer mills and 1 other industrial mill operating in 1995. Receipts for the combined output of veneer and other industrial products was 4 million cubic feet. Softwood accounted for 90 percent of the total veneer and other industrial receipts.
- Tennessee retained 64 percent of its veneer and other industrial production for processing at domestic mills. Imports amounted to 90 thousand cubic feet, while exports totaled 2 million cubic feet, making the State a net exporter of roundwood for veneer and other industrial products.

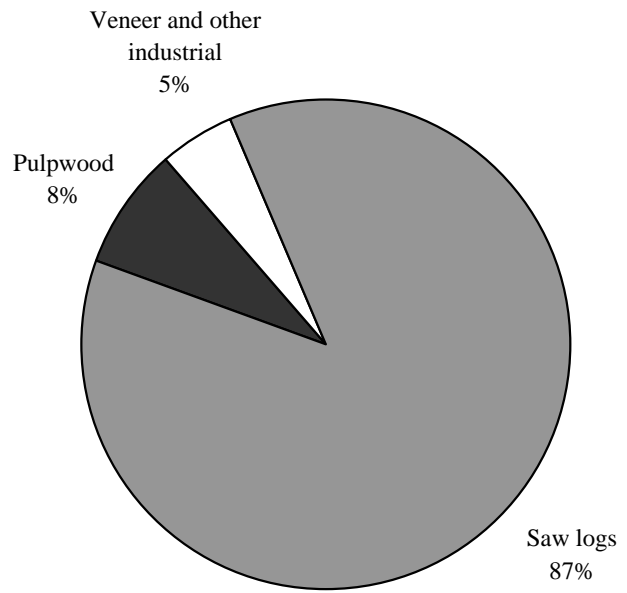
Plant Byproducts

- The manufacture of primary products in Tennessee mills generated 125 million cubic feet of wood and bark residues. Coarse residues from all primary products was 59 million cubic feet, while bark volume was more than 32 million cubic feet. Sawdust constituted 27 percent of the total residue, with 34 million cubic feet. Shavings constituted less than 1 percent of total residue, or 368 thousand cubic feet (fig. 6).
- Fifty-six percent of the wood and bark residues was used for industrial fuel, and another 34 percent was used for fiber products and miscellaneous products. Ten percent was not used for product manufacture, due in large part to the number of small sawmills in Tennessee (fig. 7). Nineteen million cubic feet, or 15 percent, of the coarse residues were used to make fiber products. Most of the bark was used for industrial fuel or other miscellaneous products, while 65 percent of the sawdust and shavings was used for industrial fuel.
- Sawmills generated 108 million cubic feet of residue, accounting for 87 percent of the total residue produced (fig. 8).



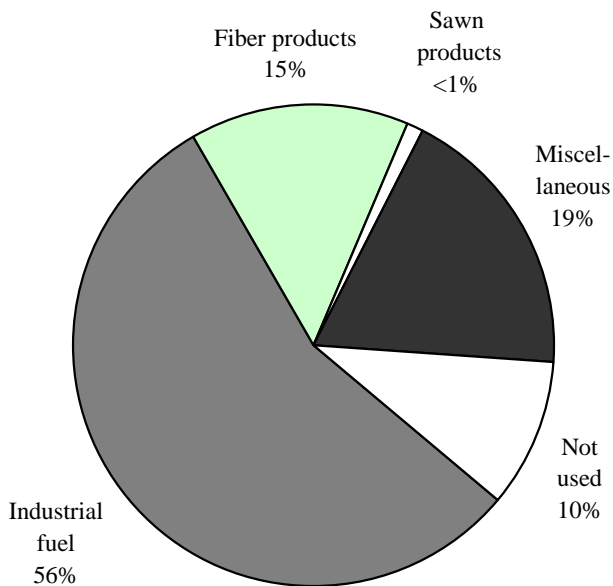
Total 284 million cubic feet

Figure 6—Primary mill residue by residue type, 1995.



Total 284 million cubic feet

Figure 8—Primary mill residue produced by mill type, 1995.



Total 284 million cubic feet

Figure 7—Disposal of residue by product, 1995.

Regional Observations

West Region

- Roundwood output for both softwood and hardwood combined from the West region was 59 million cubic feet.
- Pulpwood accounted for 28 percent of the region's TPO and 15 percent of the State's roundwood pulpwood output. The 42 million cubic feet of saw logs accounted for 71 percent of the region's total roundwood output.
- Seventy-eight primary wood-using plants were operating during 1995: 77 sawmills and 1 veneer mill (fig. 9).

West Central Region

- Sixty-seven million cubic feet of roundwood were produced.
- Saw-log production (31 million cubic feet) accounted for 46 percent of the region's total roundwood output. Pulpwood production accounted for 54 percent of the total roundwood output.
- Eighty-seven sawmills and 2 pulpmills were operating.

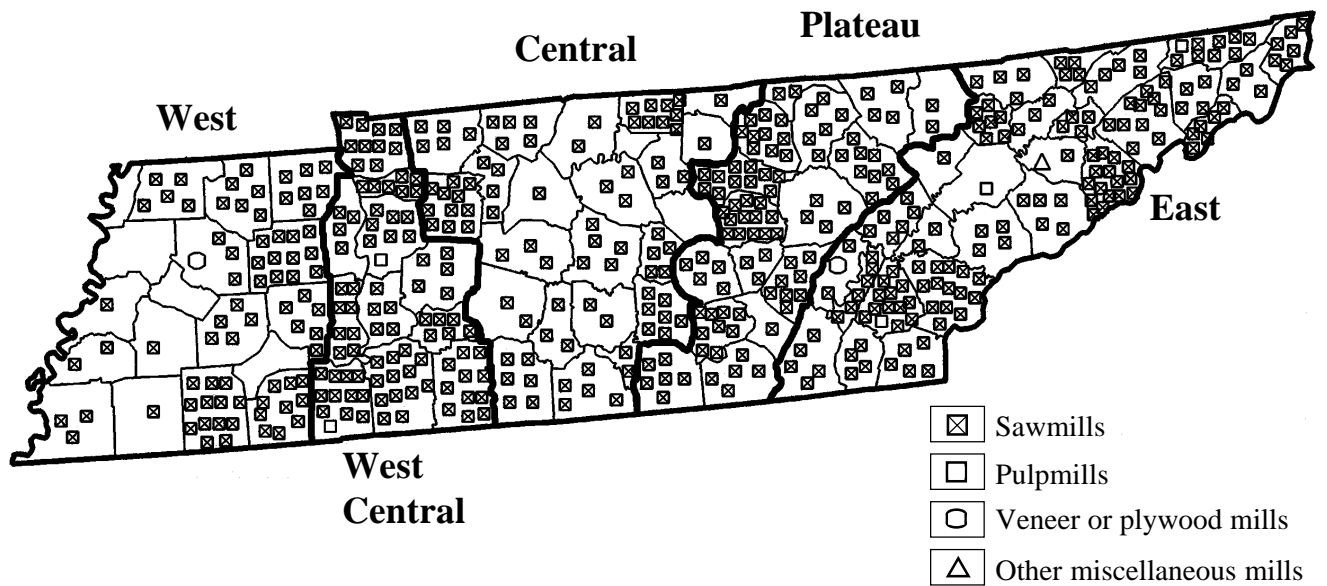


Figure 9—Primary wood-using mills, 1995.

Central Region

- Roundwood output was 40 million cubic feet, and accounted for 14 percent of the total roundwood TPO for the State.
- Pulpwood production of 2 million cubic feet accounted for 4 percent of the region's total TPO. Saw-log production of 38 million cubic feet accounted for another 96 percent of output.
- Eighty-five sawmills were operating in 1995.

Plateau Region

- Roundwood output was 56 million cubic feet and accounted for 20 percent of the State's total TPO.
- Saw-log production of 30 million cubic feet accounted for 54 percent of the total roundwood output. Pulpwood production of 26 million cubic feet accounted for 46 percent of the total roundwood output.
- In the Plateau region, 98 sawmills were operating during 1995.

East Region

- Roundwood output was 62 million cubic feet, or 22 percent of the State's total roundwood output.

- Saw-log production was 26 million cubic feet and accounted for 43 percent of the total roundwood output. Pulpwood production accounted for 47 percent of the region's total TPO.
- In the East region, 153 primary wood-using plants were operating during 1995: 3 pulpmills, 148 sawmills, 1 veneer or plywood mill, and 1 other industrial plant.

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Definitions

Board foot. Unit of measure applied to roundwood. It relates to lumber that is 1-foot long, 1-foot wide, and 1-inch thick (or its equivalent).

Composite panels. Consists of structural panels (oriented strand board or waferboard) or particleboard (industrial underlayment, thin panelboard).

Consumption. The quantity of a commodity, such as pulpwood, utilized.

Drain. The volume of roundwood removed from any geographic area where timber is grown.

Exports. The volume of roundwood used by mills outside the State where timber was cut.

Imports. The volume of roundwood delivered to a mill or group of mills in a specific State but harvested outside that State.

Industrial fuelwood. A roundwood product, with or without bark, used to generate energy at a manufacturing facility such as a wood-using mill.

Industrial roundwood products. Any primary use of the main stem of a tree, such as saw logs, veneer logs, pulpwood, poles, pilings, or posts.

Log. A primary forest product harvested in long, primarily 8-foot, lengths.

Plant residues. Wood material generated in the production of timber products at primary manufacturing plants.

Coarse residues. Suitable for chipping such as slabs, edgings, trim, veneer cores, and ends.

Fine residues. Not suitable for chipping such as sawdust, shavings, and veneer clippings.

Primary wood-using plants. Industries that receive roundwood or chips from roundwood for the manufacture of products such as lumber, veneer, and pulp.

Production. The total volume of roundwood harvested from land within the specified State, regardless of where consumed. Production is the sum of timber harvested and used within the State, plus all roundwood exported to other States.

Pulpwood. A roundwood product that will be reduced to individual wood fibers by chemical or mechanical means. The fibers are used to make a broad generic group of pulp products that includes paper products as well as chipboard, fiberboard, insulating board, and paperboard.

Receipts. The quantity or volume of industrial roundwood received at a mill or by a group of mills in a State, regardless of the geographic source. Volume of roundwood receipts is equal to the volume of roundwood retained in a State plus roundwood imported from other States in the United States.

Retained. Roundwood volume harvested from and processed by mills within the same State.

Roundwood. Logs, bolts, or other round sections cut from trees for industrial manufacture or consumer use.

Roundwood chipped. Any timber cut primarily for industrial manufacture, delivered to nonpulpmills, chipped, and then sold to pulpmills for use as fiber. Includes tops, jump sections, and whole trees.

Roundwood product drain. That portion of total drain used for a product.

Saw log. A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet long, sound and straight, and with minimum diameter inside bark of 6 inches for softwoods and 8 inches for hardwoods.

Standard cord. A unit measure applied to roundwood, usually bolts or split wood. It relates to a stack of wood 4 feet high, 4 feet wide, and 8 feet long encompassing 128 cubic feet of wood, bark, and air space. In the South, this usually translates to approximately 75.0 cubic feet of solid wood for pulpwood, because pulpwood is more uniform.

Timber products output. Roundwood production from an area's forests (equals roundwood product drain).

Timber removals. The merchantable volume of trees removed from the timberland inventory by harvesting, cultural operations such as stand improvement, land clearing, or changes in land use.

Veneer log. A log to be used in the production of plywood, finished panels, or veneer sheets, both rotary cut and sliced.

Conversion Factors^a

Saw logs

Softwood	0.18018 cubic foot = 1 board foot 5.55 board feet = 1 cubic foot
Hardwood	0.16556 cubic foot = 1 board foot 6.04 board feet = 1 cubic foot

Veneer logs

Softwood	0.17391 cubic foot = 1 board foot 5.75 board feet = 1 cubic foot
Hardwood	0.15873 cubic foot = 1 board foot 6.30 board feet = 1 cubic foot

Pulpwood^b

Softwood	72.5 cubic feet per cord
Hardwood	76.6 cubic feet per cord

^a Conversion factors vary with stem size (d.b.h.) and species.

^b Cubic feet of solid wood per cord.

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**Table 1—Output and receipts of industrial products
by product and species group, Tennessee, 1995**

Product and species group	Production	Receipts
	<i>Thousand cubic feet</i>	
Saw logs		
Softwood	15,187	13,796
Hardwood	<u>152,369</u>	<u>154,833</u>
Total	167,556	168,629
Veneer and other industrial		
Softwood	4,522	3,686
Hardwood	<u>1,685</u>	<u>403</u>
Total	6,207	4,089
Pulpwood		
Softwood	44,838	63,580
Hardwood	<u>64,440</u>	<u>25,742</u>
Total	109,278	89,322
Composite panels		
Softwood	38	0
Hardwood	<u>548</u>	<u>0</u>
Total	586	0
All industrial		
Softwood	64,585	81,062
Hardwood	<u>219,042</u>	<u>180,978</u>
Total	<u>283,627</u>	<u>262,040</u>
Byproduct output		
Softwood	20,124	
Hardwood	<u>92,477</u>	
Total	<u>112,601</u>	
Total output		
Softwood	84,709	
Hardwood	<u>311,519</u>	
Total	<u>396,228</u>	

Table 2—Number of primary wood-using plants by industry, Tennessee, 1949-1995

Industry	Year					
	1949	1960	1970	1979	1989	1995
Sawmills	2,789	1,135	546	694	490	495
Veneer or plywood mills	14	9	6	5	3	2
Pulpmills	4	5	7	7	6	5
Composite panel mills	0	0	0	0	0	0
Other mills	177	133	64	32	24	1
All plants	2,984	1,282	623	738	523	503

Table 3—Roundwood receipts by sawmill size, Tennessee, 1995

Sawmill size class ^a	Number of mills	Thousand board feet	Percent of volume
<i>Million board feet</i>			
< 1.0	286	75,911	7
1.0 - 4.99	156	382,105	38
5.0 - 9.99	35	239,649	24
> 10.0	18	311,699	31
Total	495	1,009,364	100

^a Based on volume received as opposed to actual capacity.

Table 4—Roundwood receipts by species and type of mill, Tennessee, 1995

Species	Type of mill				
	All mills	Sawmills	Veneer and other industrial	OSB and panels ^a	Pulpmills ^b
<i>Thousand cubic feet</i>					
Softwood					
Yellow pine	5,584	5,584	0	0	NA
White pine	1,890	1,890	0	0	NA
Cedar	5,076	1,390	3,686	0	NA
Cypress	141	141	0	0	NA
Other softwood	4,791	4,791	0	0	NA
Unclassified	<u>63,580</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>63,580</u>
Total softwoods	<u>81,062</u>	<u>13,796</u>	<u>3,686</u>	<u>0</u>	<u>63,580</u>
Hardwood					
Blackgum and tupelo	140	140	0	0	NA
Soft maple	53	53	0	0	NA
Sweetgum	4,059	3,771	288	0	NA
Yellow-poplar	28,116	28,032	84	0	NA
Other soft hardwood	2,947	2,916	31	0	NA
Hickory	34,916	34,916	0	0	NA
Red oak	1,492	1,492	0	0	NA
White oak	42,006	42,006	0	0	NA
Other hard hardwood	41,507	41,507	0	0	NA
Unclassified	<u>25,742</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>25,742</u>
Total hardwoods	<u>180,978</u>	<u>154,833</u>	<u>403</u>	<u>0</u>	<u>25,742</u>
All species	<u>262,040</u>	<u>168,629</u>	<u>4,089</u>	<u>0</u>	<u>89,322</u>

NA = not applicable.

^a OSB = oriented strand board.^b Only collected by softwood and hardwood.

Table 5—Industrial roundwood movement by product and species group, Tennessee, 1995

Product and species group	Production	Exported to other States	Retained	Imported from other States	Receipts
<i>Thousand cubic feet</i>					
Saw logs					
Softwood	15,187	3,750	11,437	3,209	14,646
Hardwood	<u>152,369</u>	<u>12,860</u>	<u>139,509</u>	<u>15,324</u>	<u>154,833</u>
Total	167,556	16,610	150,946	18,533	169,479
Veneer and other industrial					
Softwood	4,522	836	3,686	0	3,686
Hardwood	<u>1,685</u>	<u>1,372</u>	<u>313</u>	<u>90</u>	<u>403</u>
Total	6,207	2,208	3,999	90	4,089
Pulpwood					
Softwood	44,838	9,654	35,184	28,396	63,580
Hardwood	<u>64,440</u>	<u>52,825</u>	<u>11,615</u>	<u>14,127</u>	<u>25,742</u>
Total	109,278	62,479	46,799	42,523	89,322
Composite panels					
Softwood	38	38	0	0	0
Hardwood	<u>548</u>	<u>548</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	586	586	0	0	0
All products					
Softwood	64,585	14,278	50,307	31,605	81,912
Hardwood	<u>219,042</u>	<u>67,605</u>	<u>151,437</u>	<u>29,541</u>	<u>180,978</u>
Total	<u>283,627</u>	<u>81,883</u>	<u>201,744</u>	<u>61,146</u>	<u>262,890</u>

Table 6—Saw-log volume by destination, source, and species group, Tennessee, 1995

Destination and source	All species	Species group	
		Softwood	Hardwood
<i>Thousand cubic feet</i>			
Tennessee (retained)	150,946	11,437	139,509
Exports to:			
Alabama	314	73	241
Georgia	1,854	1,796	58
Indiana	10	0	10
Kentucky	9,140	556	8,584
Mississippi	3,001	1,171	1,830
Missouri	119	0	119
North Carolina	798	138	660
South Carolina	7	0	7
Virginia	1,367	16	1,351
Total	16,610	3,750	12,860
Imports from:			
Alabama	2,118	1	2,118
Arkansas	2,990	0	2,990
Georgia	1,028	850	178
Indiana	858	857	0
Kentucky	2,322	8	2,314
Mississippi	5,117	0	5,117
North Carolina	2,192	912	1,280
South Carolina	74	72	2
Virginia	1,834	509	1,325
Total	18,533	3,209	15,324

Table 7—Veneer and other industrial^a volume by destination, source, and species group, Tennessee, 1995

Destination and source	All species	Species group	
		Softwood	Hardwood
<i>Thousand cubic feet</i>			
Tennessee (retained)	3,999	3,686	313
Exports to:			
Georgia	595	595	0
Indiana	253	0	253
Kentucky	262	232	30
Michigan	107	0	107
North Carolina	885	9	876
Virginia	105	0	105
Wisconsin	1	0	1
Total	2,208	836	1,372
Imports from:			
Kentucky	90	0	90
Total	90	0	90

^a Includes poles, posts, mulch, firewood, log homes, charcoal, and all other industrial mills.

Table 8—Pulpwood volume by destination, source, and species group, Tennessee, 1995

Destination and source	All species	Species group	
		Softwood	Hardwood
<i>Thousand cubic feet</i>			
Tennessee (retained)	46,799	35,184	11,615
Exports to:			
Alabama	42,737	6,591	36,146
Florida	2,461	0	2,461
Georgia	364	316	48
Kentucky	14,187	2,436	11,751
Louisiana	136	0	136
Mississippi	273	0	273
Missouri	31	31	0
North Carolina	2,289	280	2,009
Texas	1	0	1
Total	62,479	9,654	52,825
Imports from:			
Alabama	8,622	5,408	3,214
Georgia	9,388	9,143	245
Indiana	1,799	0	1,799
Kentucky	2,079	1,098	981
Mississippi	15,837	11,711	4,126
Missouri	1,799	0	1,799
North Carolina	1,200	1,036	164
Virginia	1,799	0	1,799
Total	42,523	28,396	14,127

Table 9—Composite panel volume by destination, source, and species group, Tennessee, 1995

Destination and source	All species	Species group	
		Softwood	Hardwood
<i>Thousand cubic feet</i>			
Tennessee (retained)	0	0	0
Exports to:			
Virginia	586	38	548
Total	586	38	548

Table 10—Primary mill residue volume by roundwood type, species group, and residue type, Tennessee, 1995

Roundwood type and species group	All types	Residue type			
		Bark	Coarse	Sawdust	Shavings
<i>Thousand cubic feet</i>					
Saw logs					
Softwood	7,554	925	4,073	2,446	110
Hardwood	100,790	16,051	53,316	31,165	258
Total	108,344	16,976	57,389	33,611	368
Veneer and other industrial^a					
Softwood	6,838	5,664	1,174	0	0
Hardwood	121	35	57	29	0
Total	6,959	5,699	1,231	29	0
Pulpwood					
Softwood	6,573	6,573	0	0	0
Hardwood	3,252	3,252	0	0	0
Total	9,825	9,825	0	0	0
Composite panels					
Softwood	0	0	0	0	0
Hardwood	0	0	0	0	0
Total	0	0	0	0	0
Total					
Softwood	20,965	13,162	5,247	2,446	110
Hardwood	104,163	19,338	53,373	31,194	258
Total	125,128	32,500	58,620	33,640	368

^a Includes poles, pilings, posts, and other industrial products.

Table 11—Disposal of residue at primary wood-using plants by product, species group, and type of residue, Tennessee, 1995

Product and species group	All types	Residue type			
		Bark	Coarse	Sawdust	Shavings
<i>Thousand cubic feet</i>					
Fiber products					
Softwood	1,722	0	1,722	0	0
Hardwood	<u>17,117</u>	<u>0</u>	<u>16,898</u>	<u>219</u>	<u>0</u>
Total	18,839	0	18,620	219	0
Particleboard					
Softwood	0	0	0	0	0
Hardwood	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	0	0	0	0	0
Composite panels					
Softwood	0	0	0	0	0
Hardwood	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total	0	0	0	0	0
Sawn products					
Softwood	0	0	0	0	0
Hardwood	<u>45</u>	<u>0</u>	<u>45</u>	<u>0</u>	<u>0</u>
Total	45	0	45	0	0
Fuel					
Softwood	16,895	12,710	2,613	1,571	1
Hardwood	<u>52,730</u>	<u>8,610</u>	<u>23,479</u>	<u>20,510</u>	<u>131</u>
Total	69,625	21,320	26,092	22,081	132
Miscellaneous					
Softwood	1,507	347	490	561	109
Hardwood	<u>22,585</u>	<u>8,560</u>	<u>7,670</u>	<u>6,252</u>	<u>103</u>
Total	24,092	8,907	8,160	6,813	212
Not used					
Softwood	841	105	422	314	0
Hardwood	<u>11,686</u>	<u>2,168</u>	<u>5,281</u>	<u>4,213</u>	<u>24</u>
Total	12,527	2,273	5,703	4,527	24
All products					
Softwood	20,965	13,162	5,247	2,446	110
Hardwood	<u>104,163</u>	<u>19,338</u>	<u>53,373</u>	<u>31,194</u>	<u>258</u>
Total	<u>125,128</u>	<u>32,500</u>	<u>58,620</u>	<u>33,640</u>	<u>368</u>

Table 12—Roundwood timber products output by county, product, and species group, West Region of Tennessee, 1995

County	All products		Saw logs		Veneer logs		Pulpwood		Composite panel		Other industrial	
	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood
<i>Thousand cubic feet</i>												
Carroll	267	3,152	39	2,576	0	12	228	564	0	0	0	0
Chester	638	3,129	0	1,425	0	0	638	1,704	0	0	0	0
Crockett	1	159	0	159	0	0	1	0	0	0	0	0
Dyer	0	644	0	568	0	76	0	0	0	0	0	0
Fayette	19	3,285	18	2,749	0	0	1	536	0	0	0	0
Gibson	7	1,162	5	1,092	0	12	2	58	0	0	0	0
Hardeman	327	9,443	0	8,230	0	12	327	1,201	0	0	0	0
Haywood	0	2,871	0	2,871	0	0	0	0	0	0	0	0
Henderson	303	2,024	6	1,378	0	0	297	646	0	0	0	0
Henry	224	5,226	0	3,816	0	0	224	1,410	0	0	0	0
Lake	0	66	0	50	0	0	0	16	0	0	0	0
Lauderdale	0	2,506	0	2,267	0	89	0	150	0	0	0	0
McNairy	3,608	5,850	982	3,291	0	0	2,626	2,559	0	0	0	0
Madison	31	2,565	0	2,192	0	12	31	361	0	0	0	0
Obion	4	1,456	4	1,443	0	13	0	0	0	0	0	0
Shelby	64	3,357	0	3,164	0	0	64	193	0	0	0	0
Tipton	1	2,046	1	1,983	0	12	0	51	0	0	0	0
Weakley	502	3,632	51	1,267	0	12	451	2,353	0	0	0	0
All counties	5,996	52,573	1,106	40,521	0	250	4,890	11,802	0	0	0	0

Table 13—Roundwood timber products output by county, product, and species group, West Central Region of Tennessee, 1995

County	All products		Saw logs		Veneer logs		Pulpwood		Composite panel		Other industrial	
	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood
<i>Thousand cubic feet</i>												
Benton	177	2,455	106	1,560	0	0	71	895	0	0	0	0
Decatur	220	2,772	29	1,897	0	0	191	875	0	0	0	0
Hardin	2,343	5,335	466	3,152	0	0	1,877	2,183	0	0	0	0
Hickman	397	6,065	20	2,537	0	0	377	3,528	0	0	0	0
Houston	9	2,563	0	2,278	0	0	9	285	0	0	0	0
Humphreys	0	2,694	0	2,603	0	0	0	91	0	0	0	0
Lawrence	516	4,764	91	2,483	0	0	425	2,281	0	0	0	0
Lewis	219	4,623	24	2,188	0	0	195	2,435	0	0	0	0
Perry	175	6,330	77	2,068	0	0	98	4,262	0	0	0	0
Stewart	213	7,729	0	4,692	0	0	213	3,037	0	0	0	0
Wayne	2,943	14,471	40	4,703	0	0	2,903	9,768	0	0	0	0
All counties	7,212	59,801	853	30,161	0	0	6,359	29,640	0	0	0	0

Table 14—Roundwood timber products output by county, product, and species group, Central Region of Tennessee, 1995

County	All products		Saw logs		Veneer logs		Pulpwood		Composite panel		Other industrial	
	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood
	<i>Thousand cubic feet</i>											
Bedford	90	573	90	557	0	0	0	16	0	0	0	0
Cannon	391	708	391	648	0	0	0	60	0	0	0	0
Cheatham	22	1,970	22	1,965	0	0	0	5	0	0	0	0
Clay	20	2,491	20	2,305	0	186	0	0	0	0	0	0
Coffee	4	1,216	4	1,161	0	0	0	55	0	0	0	0
Davidson	0	206	0	206	0	0	0	0	0	0	0	0
Dekalb	19	1,745	19	1,745	0	0	0	0	0	0	0	0
Dickson	58	3,460	0	3,400	0	0	58	60	0	0	0	0
Giles	336	1,418	81	1,024	0	0	255	394	0	0	0	0
Jackson	38	4,046	38	4,046	0	0	0	0	0	0	0	0
Lincoln	145	1,935	143	1,503	0	0	2	432	0	0	0	0
Macon	5	4,628	5	4,601	0	27	0	0	0	0	0	0
Marshall	116	668	116	660	0	0	0	8	0	0	0	0
Maury	58	1,142	54	1,111	0	0	4	31	0	0	0	0
Montgomery	96	4,914	2	4,914	0	0	94	0	0	0	0	0
Moore	27	303	0	303	0	0	27	0	0	0	0	0
Robertson	0	2,492	0	2,492	0	0	0	0	0	0	0	0
Rutherford	329	169	329	169	0	0	0	0	0	0	0	0
Smith	66	1,351	66	1,351	0	0	0	0	0	0	0	0
Sumner	29	1,282	29	1,242	0	40	0	0	0	0	0	0
Trousdale	2	75	2	75	0	0	0	0	0	0	0	0
Williamson	59	1,041	58	1,037	0	0	1	4	0	0	0	0
Wilson	128	113	128	113	0	0	0	0	0	0	0	0
All counties	2,038	37,946	1,597	36,628	0	253	441	1,065	0	0	0	0

Table 15—Roundwood timber products output by county, product, and species group, Plateau Region of Tennessee, 1995

County	All products		Saw logs		Veneer logs		Pulpwood		Composite panel		Other industrial	
	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood
<i>Thousand cubic feet</i>												
Bledsoe	769	1,486	33	367	0	13	736	1,106	0	0	0	0
Campbell	507	4,566	447	1,880	0	30	26	2,656	0	0	34	0
Cumberland	3,088	2,144	401	1,032	0	6	2,687	1,106	0	0	0	0
Fentress	541	2,210	418	2,210	0	0	123	0	0	0	0	0
Franklin	154	2,702	31	1,407	0	0	123	1,295	0	0	0	0
Grundy	482	3,198	58	1,469	0	0	424	1,729	0	0	0	0
Marion	694	2,153	23	401	0	0	671	1,752	0	0	0	0
Morgan	2,492	1,508	193	827	0	0	2,299	681	0	0	0	0
Overton	5	3,759	5	3,752	0	0	0	7	0	0	0	0
Pickett	263	1,289	109	1,289	0	0	0	0	0	0	154	0
Putnam	92	3,123	5	3,038	0	0	87	85	0	0	0	0
Scott	844	2,139	673	1,754	0	0	149	385	0	0	22	0
Sequatchie	2,659	1,689	200	409	0	0	2,459	1,280	0	0	0	0
Van Buren	1,501	1,693	4	1,133	0	0	1,497	560	0	0	0	0
Warren	70	3,170	70	2,526	0	0	0	644	0	0	0	0
White	667	4,709	55	4,104	0	0	612	605	0	0	0	0
All counties	14,828	41,538	2,725	27,598	0	49	11,893	13,891	0	0	210	0

Table 16—Roundwood timber products output by county, product, and species group, East Region of Tennessee, 1995

County	All products		Saw logs		Veneer logs		Pulpwood		Composite panel		Other industrial	
	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood
<i>Thousand cubic feet</i>												
Anderson	299	1,185	249	991	0	0	27	194	0	0	23	0
Blount	1,721	593	229	405	0	0	1,492	188	0	0	0	0
Bradley	3,837	388	1,138	94	0	6	2,402	288	0	0	297	0
Carter	436	2,480	436	1,659	0	162	0	659	0	0	0	0
Claiborne	44	1,667	31	1,493	0	108	13	66	0	0	0	0
Cocke	775	1,524	289	556	0	125	117	843	0	0	369	0
Grainger	382	409	13	333	0	0	0	76	0	0	369	0
Greene	719	864	130	523	9	53	27	288	0	0	553	0
Hamblen	19	233	19	103	0	125	0	5	0	0	0	0
Hamilton	3,598	767	699	98	0	6	2,899	663	0	0	0	0
Hancock	72	1,152	41	889	0	0	31	263	0	0	0	0
Hawkins	252	1,782	49	898	0	0	0	610	19	274	184	0
Jefferson	956	557	35	557	0	0	0	0	0	0	921	0
Johnson	544	2,187	544	1,746	0	232	0	209	0	0	0	0
Knox	1,194	486	4	469	0	0	269	17	0	0	921	0
Loudon	344	140	17	77	0	0	327	63	0	0	0	0
McMinn	4,394	1,410	110	497	0	0	4,284	913	0	0	0	0
Meigs	1,317	928	50	294	0	0	1,267	634	0	0	0	0
Monroe	3,904	879	1,711	511	0	0	2,193	368	0	0	0	0
Polk	2,768	254	1,602	101	0	0	869	153	0	0	297	0
Rhea	3,725	1,591	348	1,043	0	33	3,377	515	0	0	0	0
Roane	2,104	1,348	470	755	0	0	1,634	593	0	0	0	0
Sevier	425	888	29	411	0	283	27	194	0	0	369	0
Sullivan	149	1,225	130	831	0	0	0	120	19	274	0	0
Unicoi	387	623	387	623	0	0	0	0	0	0	0	0
Union	53	803	53	803	0	0	0	0	0	0	0	0
Washington	93	821	93	701	0	0	0	120	0	0	0	0
All counties	34,511	27,184	8,906	17,461	9	1,133	21,255	8,042	38	548	4,303	0



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In 1995, roundwood output from Tennessee's forests was 284 million cubic feet. Mill byproducts generated from primary manufacturers was 113 million cubic feet. Almost all plant residue was used primarily for fuel and fiber products. Saw logs were the leading roundwood product at 168 million cubic feet; pulpwood ranked second at 109 million cubic feet; veneer and other industrial products were third at 6 million cubic feet. There were 503 primary processing plants operating in Tennessee in 1995. Total receipts were 262 million cubic feet.

Keywords: Pulpwood, residues, roundwood, saw logs, veneer logs, wood movement.

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