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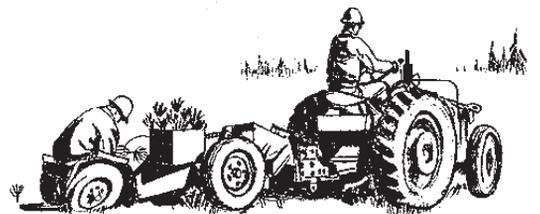
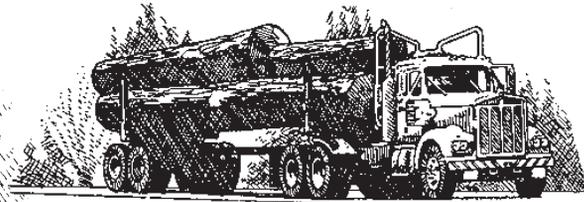
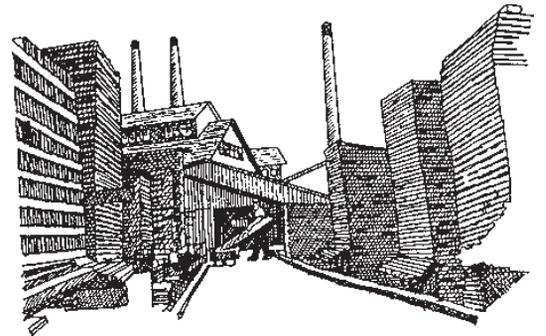
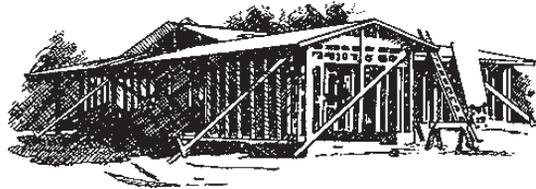


Southern
Research Station

Resource Bulletin
SRS-14

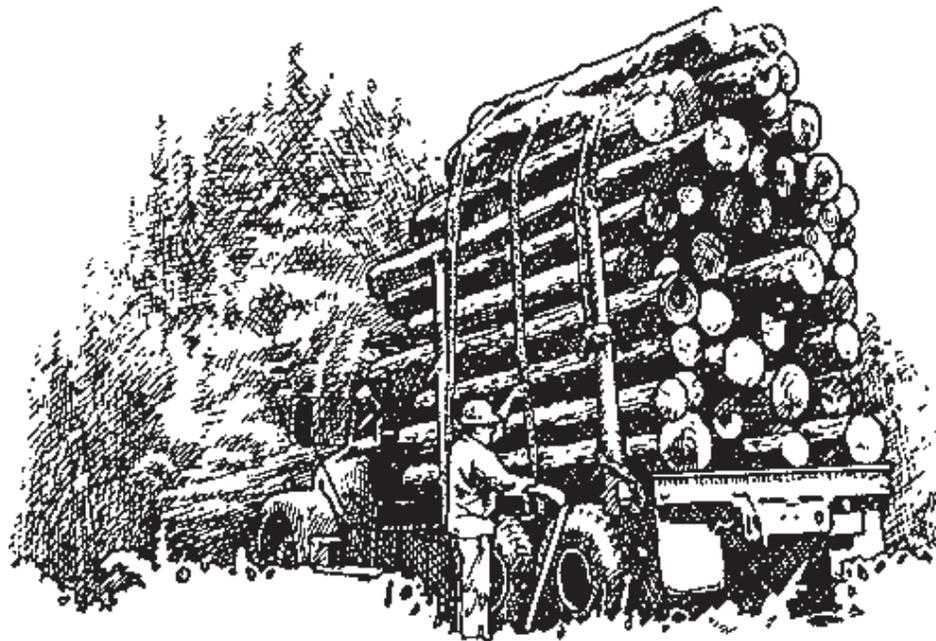
Georgia's Timber Industry— An Assessment of Timber Product Output and Use, 1995

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May 1997

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Foreword

This report contains the findings of a 1995 canvass of all primary wood-using plants in Georgia and presents changes in product output and residue use since 1992. 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. Only primary wood-using mills were canvassed. 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 all wood processors in Georgia 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 Georgia timberland was incorporated into Georgia production estimates. Each mill was canvassed by mail or through personal contact at

plant locations. Telephone contacts followed mailed questionnaire responses when additional information or clarification of response was necessary. In the event of a nonresponse, data collected in previous surveys were updated by current data collected for mills of similar size, product type, and location. Surveys for all timber products other than pulpwood began in 1961, and are currently conducted every 3 years.

Pulpwood production data were taken from an annual canvass of all southeastern pulpmills, conducted in cooperation with the American Pulpwood Association. 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 Georgia Forestry Commission 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 86 percent of mills operating in 1995: 14 pulpmills, 5 of the 12 veneer mills, 4 of the 5 composite panel mills, 30 of the 32 mills manufacturing other industrial products, and 125 of the 144 sawmills. These mills accounted for 90 percent of the 1995 mill receipts.

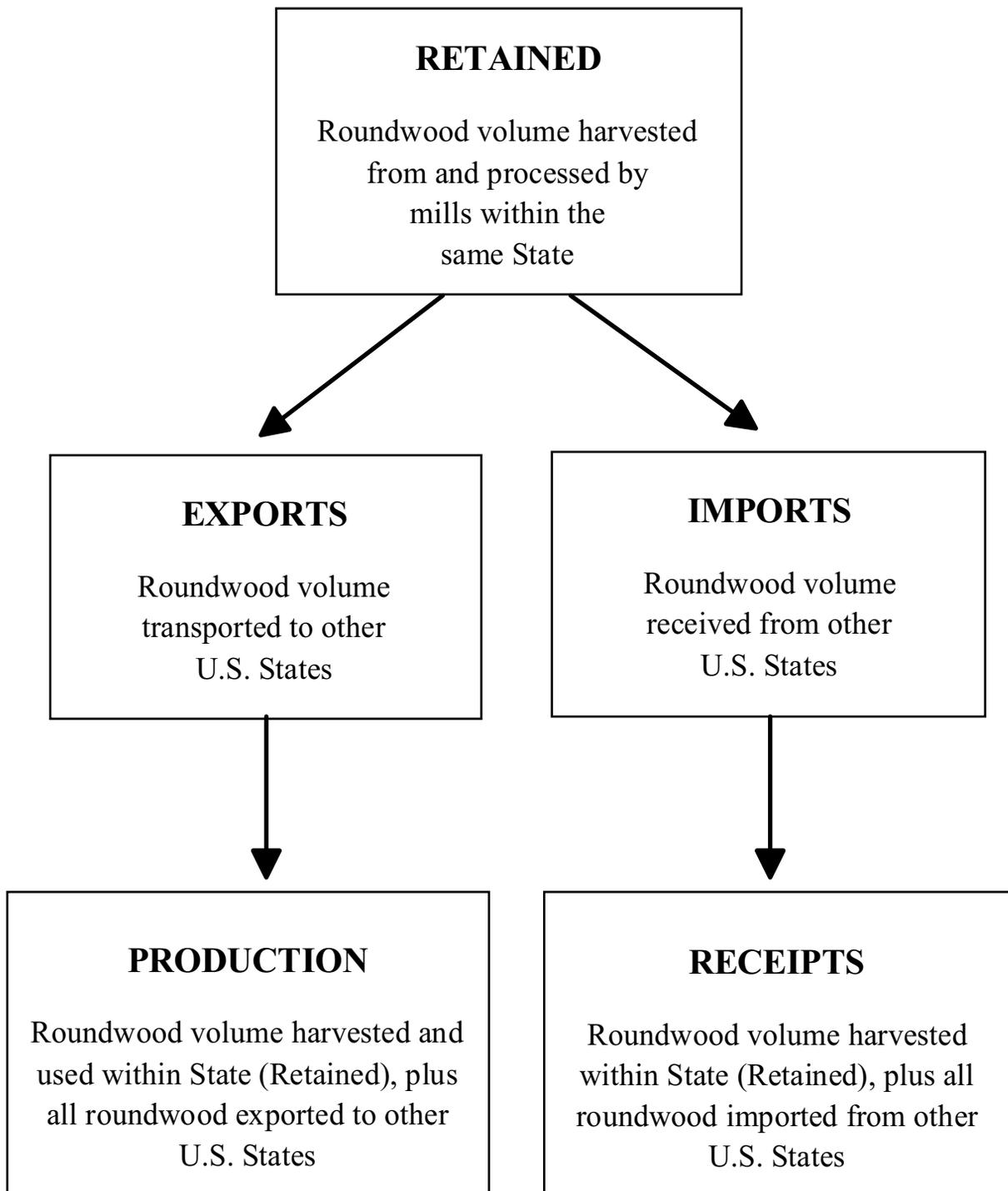


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^a All tables in this report are available in Microsoft® Excel workbook files. Upon request, these files will be supplied on 3½-inch diskettes.

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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).

- ! Between 1992 and 1995, the combined industrial timber products output (TPO) from roundwood and plant byproducts increased 2 percent from 1.75 to 1.78 billion cubic feet.
- ! Timber products output from roundwood was up nearly 82 million cubic feet, or 7 percent, to 1.3 billion cubic feet, while output of plant byproducts dropped 49 million cubic feet to 474 million cubic feet.

- ! Output of softwood roundwood products remained at 1.0 billion cubic feet, while output of hardwood roundwood products increased 40 percent to 291 million cubic feet (fig. 2).
- ! Pulpwood and saw logs were the principal roundwood products in 1995. Combined output of these two products totaled almost 1.2 billion cubic feet and accounted for 89 percent of the State's total roundwood output (fig. 3).
- ! Total receipts at Georgia mills, which included roundwood harvested and retained in the State and roundwood imported from other States, increased 6 percent to 1.4 billion cubic feet. At the same time, the number of primary roundwood-using plants in Georgia declined from 250 in 1992 to 207 in 1995.

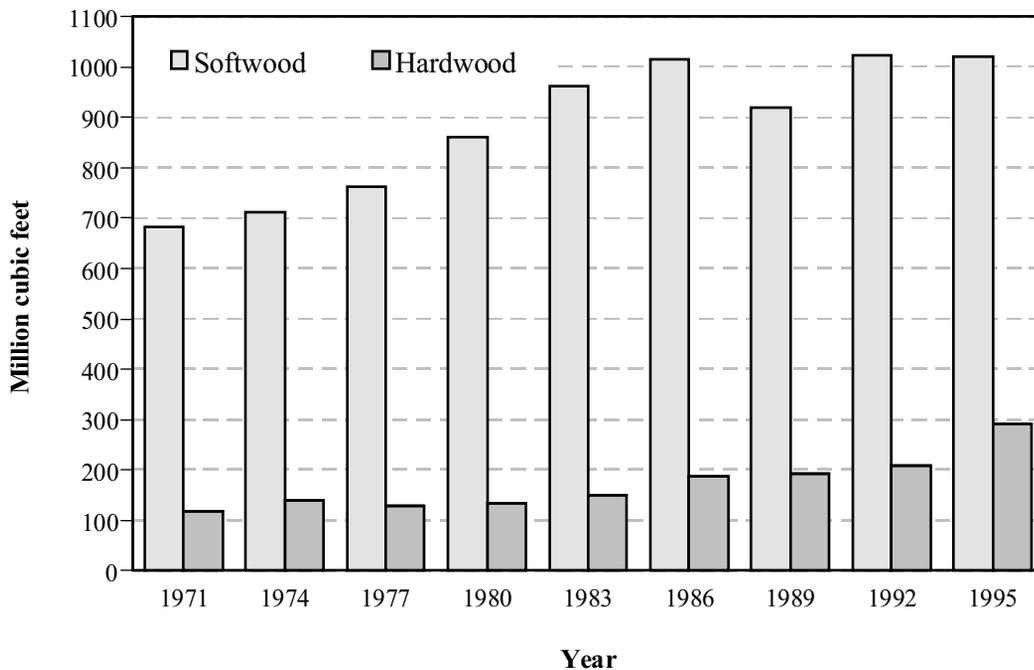


Figure 2—Roundwood production for all products by species group and year.

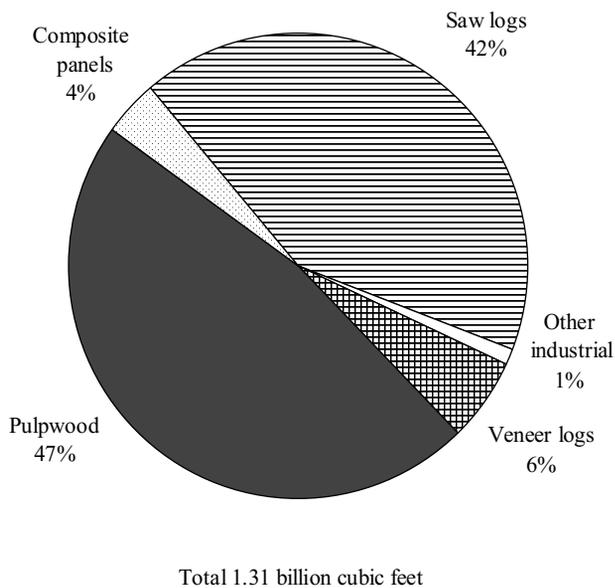


Figure 3—Roundwood production by type of product, 1995.

Pulpwood

! Pulpwood production, including chipped roundwood, increased 69 million cubic feet to 617 million cubic feet (8.4 million cords) and accounted for 47 percent of the State's total roundwood TPO. Softwood output declined 1 percent to 423 million cubic feet, while hardwood output increased 62 percent to 194 million cubic feet (fig. 4).

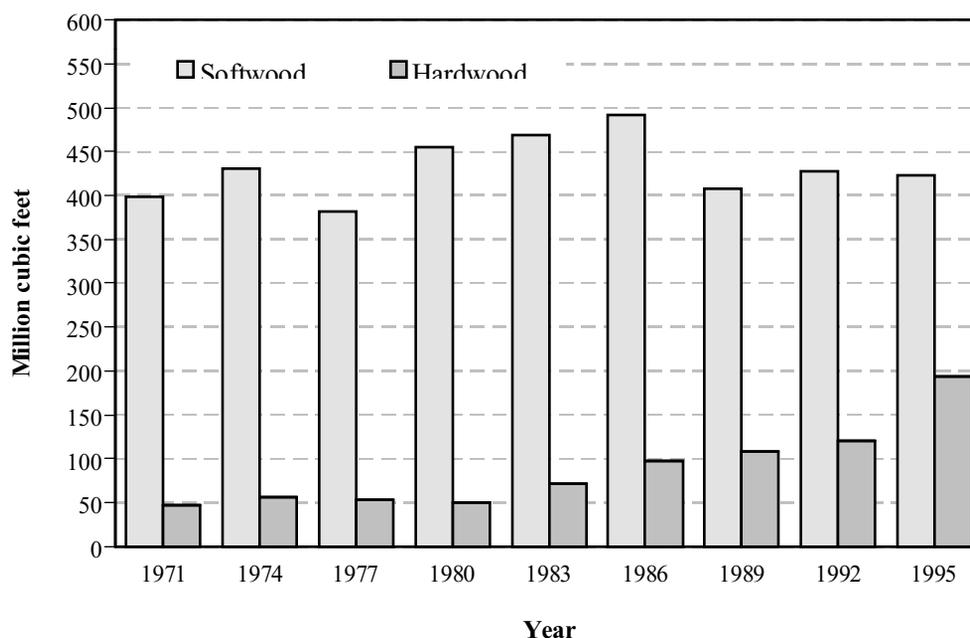


Figure 4—Roundwood pulpwood production by species group and year.

- ! Fourteen pulpmill facilities were operating and receiving roundwood in Georgia in 1995, one more than in 1992. A pulpmill that previously received only recycled waste paper began taking in roundwood in 1994. Total pulpwood receipts for these mills increased 112 million cubic feet to 674 million cubic feet, accounting for 50 percent of total receipts for all mills.
- ! Nearly 81 percent of roundwood cut for pulpwood was retained for processing at Georgia pulpmills. Roundwood pulpwood accounted for 67 percent of total known exports and 79 percent of total imports. Roundwood pulpwood imports amounted to 175 million cubic feet, or 57 million cubic feet more than was exported.

Saw Logs

- ! Saw logs accounted for 42 percent of the State's total roundwood products. Output of softwood saw logs increased nearly 10 percent to 487 million cubic feet (2.6 billion board feet), while that of hardwood saw logs increased nearly 5 percent to 65 million cubic feet (372 million board feet) (fig. 5).
- ! Georgia currently has 144 sawmills, a net loss of 34 mills since 1992. The total number of sawmills does not include several one-man sawmills not picked up in this survey. Despite this decline in sawmills, total

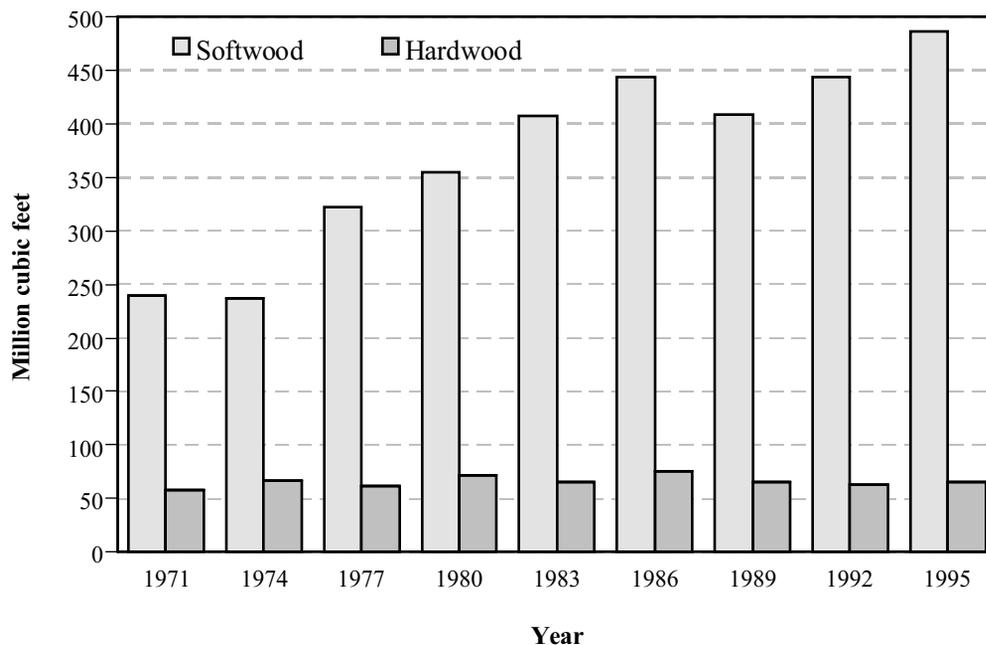


Figure 5—Roundwood saw-log production by species group and year.

saw-log receipts increased 5 million cubic feet to 543 million cubic feet. Softwood saw-log receipts increased 1 percent to 483 million cubic feet, while those of hardwoods declined 2 percent to 60 million cubic feet. Of the operating mills, 24 percent had receipts less than 1 million board feet, while 33 percent had receipts greater than 10 million board feet.

- ! Georgia retained 92 percent of its saw-log production for domestic manufacture, with saw-log exports exceeding imports by nearly 10 million cubic feet in 1995.

Veneer Logs

- ! Output of veneer logs in 1995 totaled 79 million cubic feet, and accounted for 6 percent of the State's total roundwood TPO volume. Softwood veneer production increased 7 percent to 59 million cubic feet (362 million board feet), while output of hardwood veneer logs increased 15 percent to 20 million cubic feet (124 million board feet) (fig. 6).
- ! The number of veneer mills operating in Georgia dropped from 14 to 12 since 1992. Receipts of veneer logs declined 5 percent to 70 million cubic feet. Softwood veneer receipts dropped nearly 5 million cubic feet, to 50 million cubic feet.

- ! Georgia retained 86 percent of its veneer-log production for processing at domestic veneer mills. Imports amounted to more than 2 million cubic feet, while exports totaled 11 million cubic feet, making the State a net exporter of roundwood veneer logs.

Composite Panels

- ! Roundwood harvested from Georgia's forests for composite panels increased 5 percent and totaled 47 million cubic feet. Softwood output declined 4 percent to 37 million cubic feet, while hardwood production increased 57 percent to 10 million cubic feet (fig. 7).
- ! One composite panel mill and four oriented strand board (OSB) mills were operating in Georgia in 1995, one more than in 1992. Total receipts for these mills were 52 million cubic feet, or about 4 percent of the State's total receipts.
- ! Nearly all (99 percent) of the roundwood production harvested for composite panels was retained for processing at Georgia's mills.

Other Industrial Products

- ! Roundwood harvested for other industrial uses such as poles, posts, mulch, firewood, logs for log homes, and all other industrial products totaled 15 million cubic feet. Softwood made up 97 percent of the other industrial product volume.

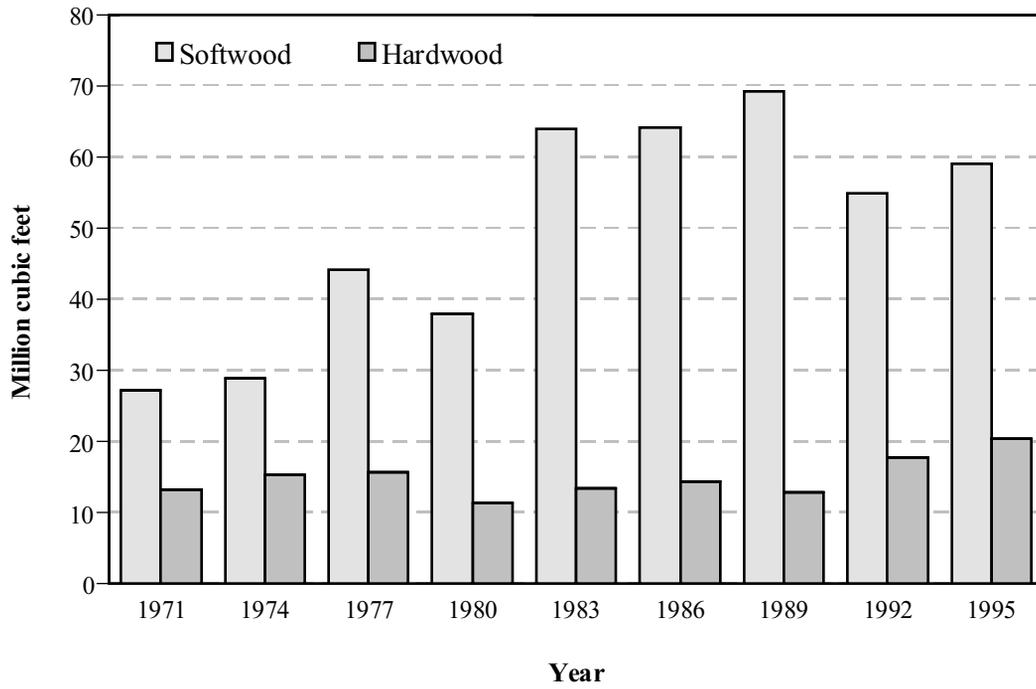


Figure 6—Roundwood veneer-log production by species group and year.

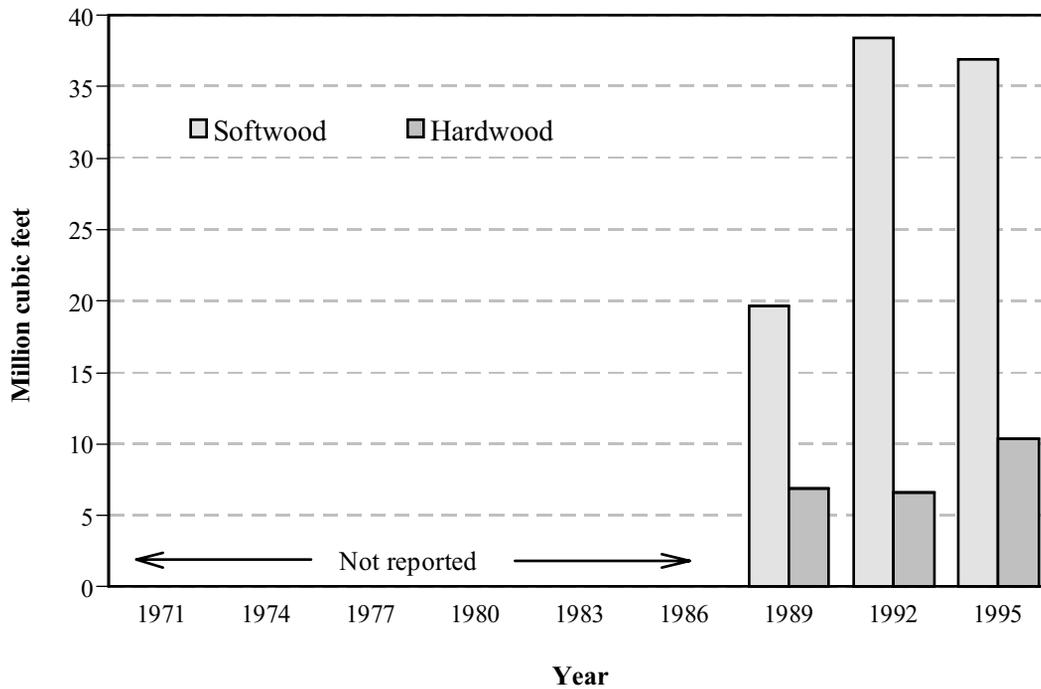


Figure 7—Roundwood production for composite panels by species group and year.

- ! The number of plants producing other industrial products declined from 41 to 32 since 1992. Combined receipts of other industrial products from softwood and hardwood totaled 16 million cubic feet.
- ! Georgia was a net importer of roundwood used for other industrial products; all of the 2 million cubic feet imported was softwood.

Plant Byproducts

- ! In 1995, processing of primary products in Georgia mills generated nearly 478 million cubic feet of wood and bark residues. Coarse residues from all primary products amounted to 183 million cubic feet, while bark volume totaled 151 million cubic feet. Collectively, sawdust and shavings make up 30 percent of total residues, or 144 million cubic feet (fig. 8).

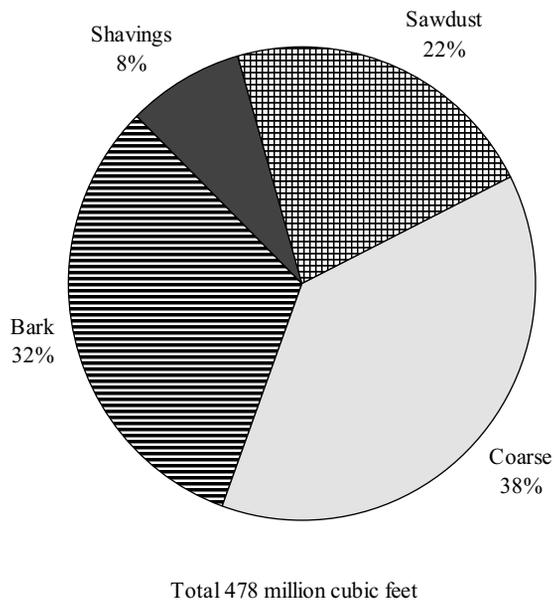


Figure 8—Primary mill residue by residue type, 1995.

- ! Virtually all of the wood and bark residues were used for a product; less than 1 percent was not used, while 48 percent of the residues were used for industrial fuel (fig. 9). Nearly 158 million cubic feet, or 87 percent, of the coarse residues were used for fiber products. Most of the bark was used for industrial fuel or other miscellaneous products, while 60 percent of the sawdust and shavings were used for industrial fuel.

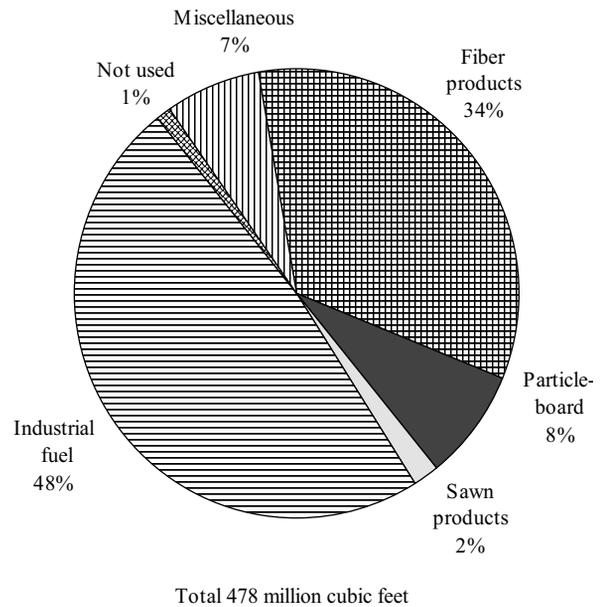


Figure 9—Disposal of residue by product, 1995.

- ! Sawmills generated 324 million cubic feet of mill residues, accounting for 68 percent of the total residues produced (fig. 10).

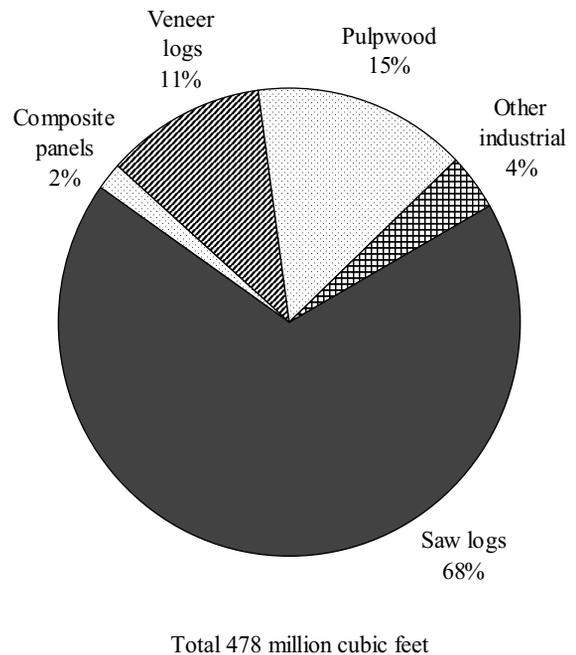


Figure 10—Primary mill residue produced by mill type, 1995.

Regional Trends

- ! Output of industrial roundwood products increased in the North Central, Central, and Southwest regions; the Central region had the largest increase at 26 percent. Outputs of industrial roundwood products decreased in the Southeast and North Georgia regions.

Southeast Region

- ! Roundwood output from the Southeast Georgia region totaled 461 million cubic feet, down 8 percent since 1992.
- ! Pulpwood accounted for 52 percent of the region's TPO and 39 percent of the State's roundwood pulpwood output. The 191 million cubic feet of saw logs accounted for 41 percent of the total roundwood output for the region.
- ! In the Southeast region, 55 primary wood-using plants were operating during 1995: 7 pulpmills, 29 sawmills, 3 veneer or plywood mills, and 16 other miscellaneous mills (fig. 11). These mills processed 35 percent of the State's total roundwood output.

Southwest Region

- ! Almost 165 million cubic feet of roundwood were produced in the Southwest Georgia region, an increase of almost 6 percent.
- ! Saw-log production of more than 72 million cubic feet accounted for 44 percent of the region's total roundwood output. Production of pulpwood was up 19 percent and accounted for 40 percent of the region's total roundwood output.
- ! The 25 mills operating in the Southwest Georgia region in 1995 included 2 pulpmills, 14 sawmills, 3 veneer or plywood mills, 2 composite panel mills, and 4 other miscellaneous mills.

Central Region

- ! Roundwood output from the Central Georgia region totaled 444 million cubic feet, up 26 percent. Roundwood production from this region accounted for 34 percent of the total roundwood TPO for the State.

- ! Pulpwood production increased by 28 percent to 209 million cubic feet, accounting for 47 percent of the region's total TPO. Saw-log production of 194 million cubic feet accounted for another 44 percent of the region's total roundwood output.
- ! The 51 primary wood-using plants operating in Central Georgia included 4 pulpmills, 40 sawmills, 3 veneer or plywood mills, and 4 other miscellaneous mills.

North Central Region

- ! Roundwood output from the North Central Georgia region totaled 172 million cubic feet, a 14-percent increase since 1992.
- ! Saw-log production increased 20 percent to 63 million cubic feet, accounting for 36 percent of the region's total roundwood output. Production of pulpwood rose 21 percent and accounted for 39 percent of the region's total roundwood output.
- ! In the North Central region, 32 primary wood-using plants were operating during 1995: 21 sawmills, 2 veneer or plywood mills, 3 composite panel mills, and 6 other miscellaneous mills.

Northern Region

- ! Roundwood output from the Northern Georgia region totaled 69 million cubic feet, a decline of 1 percent since 1992.
- ! Saw-log production increased 8 percent to 33 million cubic feet and accounted for 48 percent of the region's total roundwood output. Pulpwood production was down 11 percent and accounted for 47 percent of the region's total TPO.
- ! In the Northern region, 44 primary wood-using plants were operating during 1995: 1 pulpmill, 40 sawmills, 1 veneer or plywood mill, and 2 other miscellaneous mills.

Total Roundwood Output

- ! Using the most recent inventory data for Georgia, product output by source, ownership, and detailed species group was estimated.

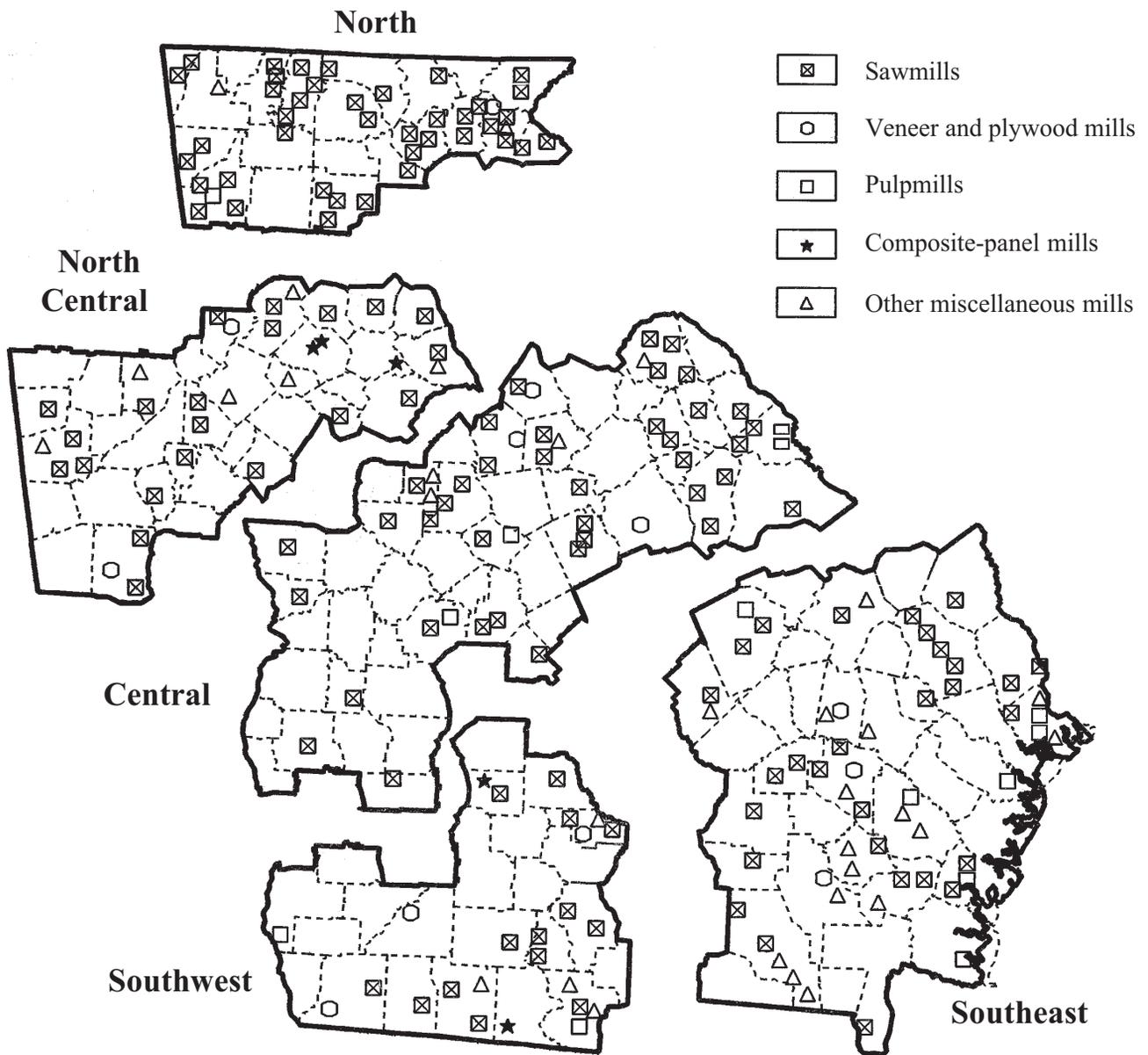


Figure 11—Primary wood-using mills by region, 1995.

Source

- ! In addition to the 1.3 billion cubic feet of roundwood output for industrial roundwood, an estimated 131 million cubic feet was harvested for domestic fuelwood bringing Georgia's total roundwood output to 1.4 billion cubic feet.
- ! Almost 88 percent of total roundwood output was considered growing-stock volume from timberland sources, with other sources contributing an estimated 174 million cubic feet, or 12 percent of total roundwood output (fig. 12).

Ownership

- ! An estimated 923 million cubic feet, or 64 percent, of the total roundwood output came from nonindustrial private forest lands (NIPF). Forest industry lands contributed 468 million cubic feet, or 32 percent of the output. Public lands made up the remaining 4 percent, or 51 million cubic feet (fig. 13).

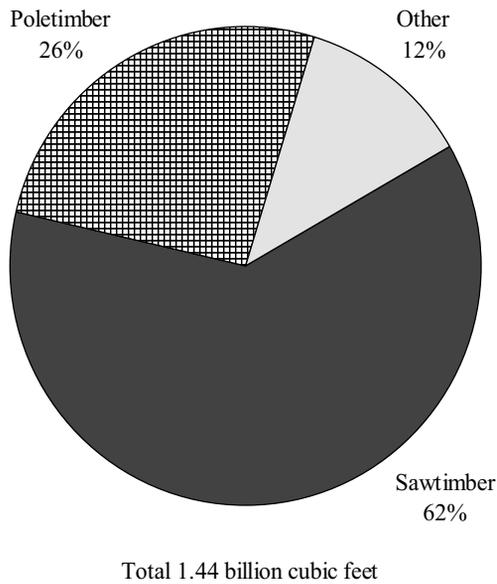


Figure 12—Roundwood output by source, 1995.

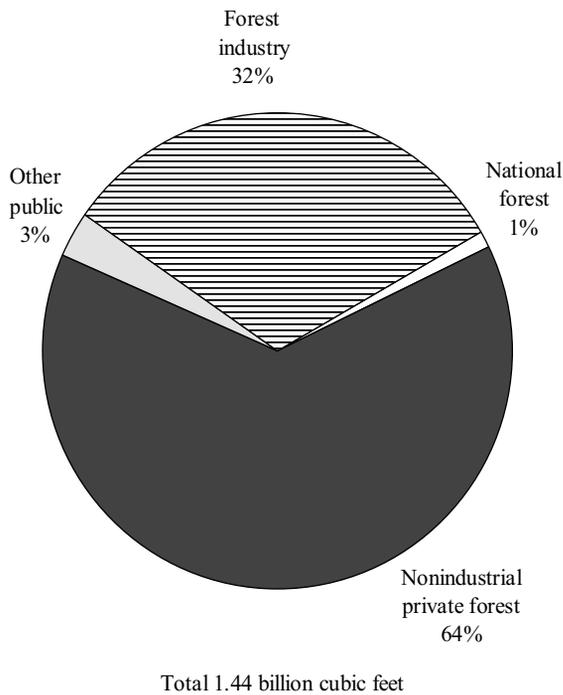


Figure 13—Roundwood output by ownership, 1995.

Species

- ! The loblolly and shortleaf pine group provided the most volume of any softwood species group, accounting for 53 percent of the total softwood

output. Slash and longleaf pine type accounted for 41 percent of the softwood output (fig. 14). In hardwoods, the red oak and white oak groups combined accounted for 150 million cubic feet, or 37 percent of total hardwood output (fig. 15).

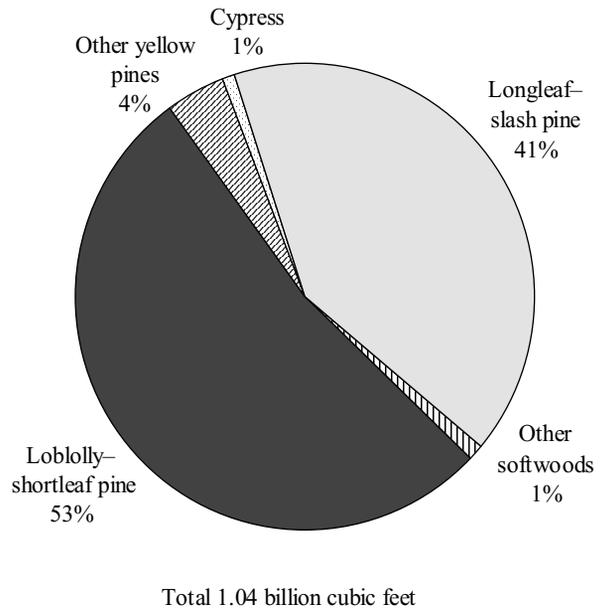


Figure 14—Roundwood output by softwood species group, 1995.

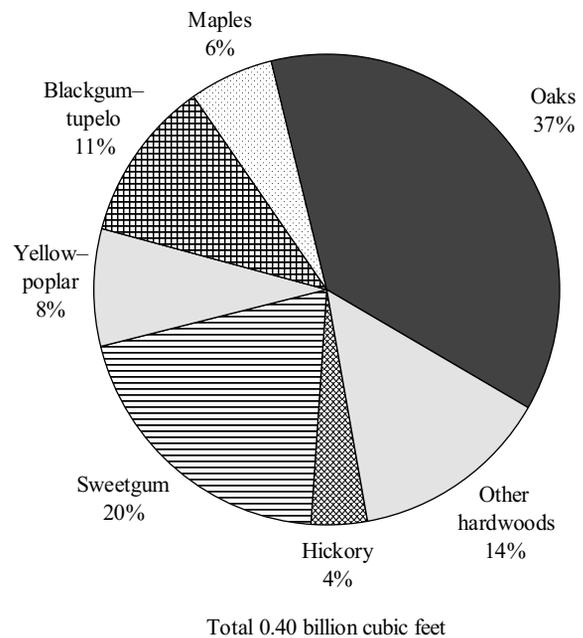


Figure 15—Roundwood output by hardwood species group, 1995.

Definitions

Board feet. 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 utilized 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, poles, pilings, veneer logs, pulpwood, posts, or cooperage logs.

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 veneer, pulp, and lumber.

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 U.S. 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 pulp mills 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 in 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	0.18393 cubic foot = 1 board foot 5.44 board feet = 1 cubic foot
Hardwood	0.17597 cubic foot = 1 board foot 5.68 board feet = 1 cubic foot

Veneer logs

Softwood	0.16260 cubic foot = 1 board foot 6.15 board feet = 1 cubic foot
Hardwood	0.16394 cubic foot = 1 board foot 6.10 board feet = 1 cubic foot

Pulpwood^b

Softwood	72.6 cubic feet per cord
Hardwood	76.4 cubic feet per cord

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

The factors shown are for trees of average diameters removed in Georgia during the most recent survey period.

^b Cubic feet of solid wood per cord.

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Table 1—Output of industrial products by product and species group, Georgia, 1992 and 1995

Product and species group	Year		Change	Percent change
	1992	1995		
<i>Thousand cubic feet</i>				
Saw logs				
Softwood	444,044	486,848	42,804	9.6
Hardwood	62,341	65,361	3,020	4.8
Total	506,385	552,209	45,824	9.0
Veneer logs				
Softwood	54,849	58,924	4,075	7.4
Hardwood	17,756	20,367	2,611	14.7
Total	72,605	79,291	6,686	9.2
Pulpwood^a				
Softwood	427,816	422,807	-5,009	-1.2
Hardwood	120,039	194,458	74,419	62.0
Total	547,855	617,265	69,410	12.7
Composite panels				
Softwood	38,360	36,900	-1,460	-3.8
Hardwood	6,588	10,343	3,755	57.0
Total	44,948	47,243	2,295	5.1
Other industrial				
Softwood	57,239	15,027	-42,212	-73.7
Hardwood	889	472	-417	-46.9
Total	58,128	15,499	-42,629	-73.3
All industrial				
Softwood	1,022,308	1,020,506	-1,802	-0.2
Hardwood	207,613	291,001	83,388	40.2
Total	1,229,921	1,311,507	81,586	6.6
Byproduct output				
Softwood	456,324	394,601	-61,723	-13.5
Hardwood	66,499	78,874	12,375	18.6
Total	522,823	473,475	-49,348	-9.4
Total output				
Softwood	1,478,632	1,415,107	-63,525	-4.3
Hardwood	274,112	369,875	95,763	34.9
Total	1,752,744	1,784,982	32,238	1.8

^a Includes roundwood that was delivered to nonpulpmills and then chipped and sold to pulpmills (30,898,000 cubic feet in 1992 and 25,574,000 cubic feet in 1995).

**Table 2—Roundwood receipts by product and species group,
Georgia, 1992 and 1995**

Product and species group	Year		Change	Percent change
	1992	1995		
<i>Thousand cubic feet</i>				
Saw logs				
Softwood	476,183	482,759	6,576	1.4
Hardwood	61,182	59,813	-1,369	-2.2
Total	537,365	542,572	5,207	1.0
Veneer logs				
Softwood	54,550	50,041	-4,509	-8.3
Hardwood	19,320	20,121	801	4.1
Total	73,870	70,162	-3,708	-5.0
Pulpwood^a				
Softwood	431,378	455,821	24,443	5.7
Hardwood	130,129	218,069	87,940	67.6
Total	561,507	673,890	112,383	20.0
Composite panels				
Softwood	38,733	38,030	-703	-1.8
Hardwood	9,094	13,495	4,401	48.4
Total	47,827	51,525	3,698	7.7
Other industrial				
Softwood	60,915	15,757	-45,158	-74.1
Hardwood	889	472	-417	-46.9
Total	61,804	16,229	-45,575	-73.7
Total output				
Softwood	1,061,759	1,042,408	-19,351	-1.8
Hardwood	220,614	311,970	91,356	41.4
Total	1,282,373	1,354,378	72,005	5.6

^a Includes roundwood that was delivered to nonpulp mills and then chipped and sold to pulp mills (31,990,000 cubic feet in 1992 and 28,336,000 cubic feet in 1995).

Table 3—Number of primary wood-using plants by industry, Georgia, 1974-1995

Industry	Year							
	1974	1977	1980	1983	1986	1989	1992	1995
Sawmills	301	280	265	222	239	172	178	144
Veneer mills	24	23	22	19	18	16	14	12
Pulpmills	15	15	15	15	15	14	13	14
Composite panel mills	0	0	0	0	0	3	4	5
Other mills	26	26	25	28	29	26	41	32
All plants	366	344	327	284	301	231	250	207

Table 4—Roundwood receipts by sawmill size, Georgia, 1992 and 1995

Sawmill size class ^a	1992			1995		
	Number of mills	Thousand board feet	Percent of volume	Number of mills	Thousand board feet	Percent of volume
<i>Million board feet</i>						
< 1.0	48	13,322	1	34	9,689	0
1.0 - 4.99	54	152,122	5	34	96,571	3
5.0 - 9.99	30	210,086	7	28	188,326	6
10.0 - 49.99	24	629,101	21	25	640,538	22
> 50	22	1,930,853	66	23	2,028,362	69
Total	178	2,935,484	100	144	2,963,486	100

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

Table 5—Roundwood receipts by species and type of mill, Georgia, 1995

Species	Type of mill						
	All mills	Veneer mills			OSB ^a and panels	Pulpmills ^b	Other mills
		Sawmills	Pine plywood	Other veneer			
<i>Thousand cubic feet</i>							
Softwood							
Yellow pine	578,967	477,578	46,465	3,576	37,222	NA	14,126
White pine	3,188	2,514	0	0	674	NA	0
Cedar	1,128	4	0	0	134	NA	990
Cypress	3,304	2,663	0	0	0	NA	641
Unclassified	455,821	0	0	0	0	455,821	0
Total softwoods	<u>1,042,408</u>	<u>482,759</u>	<u>46,465</u>	<u>3,576</u>	<u>38,030</u>	<u>455,821</u>	<u>15,757</u>
Hardwood							
Blackgum and tupelo	8,167	2,587	0	464	5,116	NA	0
Soft maple	2,982	2,465	0	6	511	NA	0
Sweetgum	19,398	9,426	4,574	1,517	3,867	NA	14
Yellow-poplar	26,368	11,099	5,752	6,525	2,978	NA	14
Other soft hardwood	2,534	1,234	0	277	1,023	NA	0
Hickory	2,356	2,146	0	0	0	NA	210
Red oak	18,198	17,408	0	574	0	NA	216
White oak	9,059	8,764	0	284	0	NA	11
Other hard hardwood	4,839	4,684	0	148	0	NA	7
Unclassified	218,069	0	0	0	0	218,069	0
Total hardwoods	<u>311,970</u>	<u>59,813</u>	<u>10,326</u>	<u>9,795</u>	<u>13,495</u>	<u>218,069</u>	<u>472</u>
All species	<u>1,354,378</u>	<u>542,572</u>	<u>56,791</u>	<u>13,371</u>	<u>51,525</u>	<u>673,890</u>	<u>16,229</u>

NA = not applicable.

^a OSB = oriented strand board.^b Only collected by softwood and hardwood and includes roundwood chipped.**Table 6—Industrial roundwood movement by year and species group, Georgia, 1992 and 1995**

Year	Production	Exported to other States	Retained	Imported from other States	Receipts
<i>Thousand cubic feet</i>					
Softwood					
1992	1,022,308	105,563	916,745	145,014	1,061,759
1995	1,020,506	131,907	888,599	153,809	1,042,408
Hardwood					
1992	207,613	28,324	179,289	41,325	220,614
1995	291,001	45,308	245,693	66,277	311,970
All species					
1992	1,229,921	133,887	1,096,034	186,339	1,282,373
1995	1,311,507	177,215	1,134,292	220,086	1,354,378

Table 7—Industrial roundwood movement by product and species group, Georgia, 1995

Product and species group	Production	Exported to other States	Retained	Imported from other States	Receipts
<i>Thousand cubic feet</i>					
Saw logs					
Softwood	486,848	39,060	447,788	34,971	482,759
Hardwood	65,361	6,938	58,423	1,390	59,813
Total	552,209	45,998	506,211	36,361	542,572
Veneer logs					
Softwood	58,924	9,396	49,528	513	50,041
Hardwood	20,367	1,971	18,396	1,725	20,121
Total	79,291	11,367	67,924	2,238	70,162
Pulpwood^a					
Softwood	422,807	81,794	341,013	114,808	455,821
Hardwood	194,458	36,394	158,064	60,005	218,069
Total	617,265	118,188	499,077	174,813	673,890
Composite panels					
Softwood	36,900	268	36,632	1,398	38,030
Hardwood	10,343	5	10,338	3,157	13,495
Total	47,243	273	46,970	4,555	51,525
Other industrial					
Softwood	15,027	1,389	13,638	2,119	15,757
Hardwood	472	0	472	0	472
Total	15,499	1,389	14,110	2,119	16,229
All products					
Softwood	1,020,506	131,907	888,599	153,809	1,042,408
Hardwood	291,001	45,308	245,693	66,277	311,970
Total	1,311,507	177,215	1,134,292	220,086	1,354,378

^a Includes roundwood chipped.

Table 8—Saw-log volume by destination, source, and species group, Georgia, 1995

Destination and source	All species	Species group	
		Softwood	Hardwood
<i>Thousand cubic feet</i>			
Georgia (retained)	506,211	447,788	58,423
Exports to:			
Alabama	25,511	21,708	3,803
Florida	9,372	8,809	563
North Carolina	1,494	145	1,349
South Carolina	8,744	7,535	1,209
Tennessee	877	863	14
Total	45,998	39,060	6,938
Imports from:			
Alabama	6,202	5,098	1,104
Florida	14,570	14,355	215
North Carolina	188	188	0
South Carolina	13,495	13,488	7
Tennessee	1,906	1,842	64
Total	36,361	34,971	1,390

Table 9—Veneer volume by destination, source, and species group, Georgia, 1995

Destination and source	All species	Species group	
		Softwood	Hardwood
<i>Thousand cubic feet</i>			
Georgia (retained)	67,924	49,528	18,396
Exports to:			
Alabama	1,355	155	1,200
Florida	8,334	8,205	129
North Carolina	51	0	51
South Carolina	1,627	1,036	591
Total	11,367	9,396	1,971
Imports from:			
Alabama	1,624	513	1,111
Florida	204	0	204
North Carolina	205	0	205
South Carolina	205	0	205
Total	2,238	513	1,725

Table 10—Pulpwood volume by destination, source, and species group, Georgia, 1995^a

Destination and source	All species	Species group	
		Softwood	Hardwood
<i>Thousand cubic feet</i>			
Georgia (retained)	499,077	341,013	158,064
Exports to:			
Alabama	48,873	26,903	21,970
Florida	55,241	43,772	11,469
Louisiana	48	48	0
North Carolina	3,081	1,678	1,403
South Carolina	1,548	240	1,308
Tennessee	9,397	9,153	244
Total	118,188	81,794	36,394
Imports from:			
Alabama	59,275	50,865	8,410
Florida	41,076	30,242	10,834
Mississippi	249	0	249
North Carolina	538	376	162
South Carolina	70,986	32,846	38,140
Tennessee	527	479	48
Virginia	2,162	0	2,162
Total	174,813	114,808	60,005

^a Includes roundwood chipped that was delivered to nonpulp mills and then chipped and sold to pulp mills.

Table 11—Composite panel volume by destination, source, and species group, Georgia, 1995

Destination and source	All species	Species group	
		Softwood	Hardwood
<i>Thousand cubic feet</i>			
Georgia (retained)	46,970	36,632	10,338
Exports to:			
Alabama	273	268	5
Total	273	268	5
Imports from:			
Florida	3,081	0	3,081
South Carolina	1,474	1,398	76
Total	4,555	1,398	3,157

Table 12—Other industrial volume by destination, source, and species group, Georgia, 1995^a

Destination and source	All species	Species group	
		Softwood	Hardwood
<i>Thousand cubic feet</i>			
Georgia (retained)	14,110	13,638	472
Exports to:			
Florida	1,300	1,300	0
South Carolina	72	72	0
Tennessee	17	17	0
Total	1,389	1,389	0
Imports from:			
Florida	973	973	0
Kentucky	300	300	0
South Carolina	244	244	0
Tennessee	602	602	0
Total	2,119	2,119	0

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

Table 13—Primary mill residue volume by roundwood type, species group, and residue type, Georgia, 1995

Roundwood type and species group	All types	Residue type			
		Bark	Coarse	Sawdust	Shavings
<i>Thousand cubic feet</i>					
Saw logs					
Softwood	289,684	42,536	135,951	70,787	40,410
Hardwood	34,653	6,637	15,504	12,188	324
Total	324,337	49,173	151,455	82,975	40,734
Veneer logs					
Softwood	37,048	4,978	18,503	13,567	0
Hardwood	13,805	2,397	5,215	6,193	0
Total	50,853	7,375	23,718	19,760	0
Pulpwood					
Softwood	44,382	44,382	0	0	0
Hardwood	27,208	27,208	0	0	0
Total	71,590	71,590	0	0	0
Composite panels					
Softwood	8,494	8,494	0	0	0
Hardwood	3,450	3,450	0	0	0
Total	11,944	11,944	0	0	0
Other industrial^a					
Softwood	18,823	10,953	7,517	353	0
Hardwood	271	60	152	59	0
Total	19,094	11,013	7,669	412	0
Total					
Softwood	398,431	111,343	161,971	84,707	40,410
Hardwood	79,387	39,752	20,871	18,440	324
Total	477,818	151,095	182,842	103,147	40,734

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

Table 14—Disposal of residue at primary wood-using plants by product, species group, and type of residue, Georgia, 1992 and 1995

Product and species group	All types		Bark		Coarse		Sawdust		Shavings	
	1992	1995	1992	1995	1992	1995	1992	1995	1992	1995
<i>Thousand cubic feet</i>										
Fiber products										
Softwood	157,492	148,158	0	0	150,156	143,398	6,170	4,208	1,166	552
Hardwood	15,627	14,845	0	0	15,616	14,830	0	15	11	0
Total	173,119	163,003	0	0	165,772	158,228	6,170	4,223	1,177	552
Particleboard										
Softwood	32,175	38,600	0	0	456	19	9,575	15,904	22,144	22,677
Hardwood	219	46	0	0	0	0	167	0	52	46
Total	32,394	38,646	0	0	456	19	9,742	15,904	22,196	22,723
Composite panels										
Softwood	0	0	0	0	0	0	0	0	0	0
Hardwood	8	3	0	0	8	0	0	0	0	3
Total	8	3	0	0	8	0	0	0	0	3
Sawn products										
Softwood	7,863	5,533	0	0	7,863	5,533	0	0	0	0
Hardwood	2,971	1,055	0	0	2,971	1,055	0	0	0	0
Total	10,834	6,588	0	0	10,834	6,588	0	0	0	0
Fuel										
Softwood	230,318	169,727	126,091	90,961	27,593	9,524	62,604	54,288	14,030	14,954
Hardwood	43,001	60,564	22,280	38,481	3,687	4,503	16,814	17,353	220	227
Total	273,319	230,291	148,371	129,442	31,280	14,027	79,418	71,641	14,250	15,181
Miscellaneous										
Softwood	28,476	32,583	18,034	18,917	2,712	2,633	4,144	8,915	3,586	2,118
Hardwood	4,673	2,361	3,212	1,130	500	309	930	876	31	46
Total	33,149	34,944	21,246	20,047	3,212	2,942	5,074	9,791	3,617	2,164
Not used										
Softwood	1,518	3,830	597	1,465	613	864	308	1,392	0	109
Hardwood	399	513	103	141	103	174	193	196	0	2
Total	1,917	4,343	700	1,606	716	1,038	501	1,588	0	111
All products										
Softwood	457,842	398,431	144,722	111,343	189,393	161,971	82,801	84,707	40,926	40,410
Hardwood	66,898	79,387	25,595	39,752	22,885	20,871	18,104	18,440	314	324
Total	524,740	477,818	170,317	151,095	212,278	182,842	100,905	103,147	41,240	40,734

Table 15—Roundwood timber products output by product and species group, Southeast Georgia, 1992 and 1995

Product and species group	Year		Change	Percent change
	1992	1995		
<i>Thousand cubic feet</i>				
Saw logs				
Softwood	194,771	181,119	-13,652	-7.0
Hardwood	10,464	9,689	-775	-7.4
Total	205,235	190,808	-14,427	-7.0
Veneer logs				
Softwood	9,785	13,279	3,494	35.7
Hardwood	2,053	3,530	1,477	71.9
Total	11,838	16,809	4,971	42.0
Pulpwood^a				
Softwood	192,199	170,080	-22,119	-11.5
Hardwood	43,777	71,367	27,590	63.0
Total	235,976	241,447	5,471	2.3
Composite panels				
Softwood	537	537	0	--
Hardwood	0	0	0	--
Total	537	537	0	--
Other industrial				
Softwood	47,436	11,312	-36,124	-76.2
Hardwood	0	0	0	--
Total	47,436	11,312	-36,124	-76.2
All industrial				
Softwood	444,728	376,327	-68,401	-15.4
Hardwood	56,294	84,586	28,292	50.3
Total	501,022	460,913	-40,109	-8.0

-- = negligible.

^a Includes roundwood that was delivered to nonpulpmills and then chipped and sold to pulp mills (17,060,000 cubic feet in 1992 and 8,349,000 cubic feet in 1995).

Table 16—Roundwood timber products output by county, product, and species group, Southeast Georgia, 1995

County	All products		Saw logs		Veneer logs		Pulpwood ^a		Composite panels		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>												
Appling	15,667	2,450	7,714	480	618	54	6,925	1,916	0	0	410	0
Atkinson	8,584	340	3,837	0	884	0	3,051	340	0	0	812	0
Bacon	6,035	2,092	1,256	480	707	0	3,484	1,612	0	0	588	0
Brantley	14,307	1,537	4,543	0	0	0	9,083	1,537	0	0	681	0
Bryan	7,815	1,512	3,653	0	0	0	4,162	1,512	0	0	0	0
Bulloch	9,808	3,170	7,698	263	0	296	2,028	2,611	0	0	82	0
Camden	15,038	2,618	4,908	3	0	0	10,094	2,615	0	0	36	0
Candler	8,424	2,013	6,142	0	0	54	2,155	1,959	0	0	127	0
Charlton	19,362	1,628	7,812	0	943	0	10,011	1,628	0	0	596	0
Chatham	3,267	1,759	955	22	0	0	2,287	1,737	0	0	25	0
Clinch	26,556	1,255	9,682	0	2,241	9	13,535	1,246	0	0	1,098	0
Coffee	13,407	3,331	7,847	724	1,862	1,257	3,349	1,350	0	0	349	0
Dodge	7,389	3,731	1,816	466	3,009	0	1,842	3,265	537	0	185	0
Echols	21,339	405	9,299	0	915	0	10,486	405	0	0	639	0
Effingham	13,181	5,362	6,310	499	394	137	6,476	4,726	0	0	1	0
Emanuel	22,749	4,297	18,431	956	0	54	4,116	3,287	0	0	202	0
Evans	5,868	1,800	3,951	0	0	0	1,917	1,800	0	0	0	0
Glynn	11,980	3,955	4,737	0	0	0	7,081	3,955	0	0	162	0
Jeff Davis	13,737	4,140	8,485	961	0	0	4,889	3,179	0	0	363	0
Jenkins	3,979	2,920	2,365	495	0	177	1,608	2,248	0	0	6	0
Johnson	5,154	2,773	3,618	560	0	127	1,536	2,086	0	0	0	0
Laurens	7,107	2,890	3,666	1,120	0	0	3,337	1,770	0	0	104	0
Liberty	11,316	3,058	4,928	0	0	0	6,354	3,058	0	0	34	0
Long	9,595	3,727	5,018	0	0	0	4,358	3,727	0	0	219	0
McIntosh	8,700	1,938	2,513	3	0	0	6,187	1,935	0	0	0	0
Montgomery	2,687	1,329	1,224	196	0	172	1,249	961	0	0	214	0
Pierce	7,126	848	2,914	0	707	0	2,351	848	0	0	1,154	0
Screven	10,725	4,775	7,667	507	642	455	2,379	3,813	0	0	37	0
Tattnall	11,302	1,912	7,033	0	0	54	4,044	1,858	0	0	225	0
Telfair	5,418	3,394	1,727	926	357	0	3,149	2,468	0	0	185	0
Toombs	6,400	2,584	3,552	785	0	453	2,472	1,346	0	0	376	0
Treutlen	3,574	663	1,948	0	0	54	1,522	609	0	0	104	0
Ware	21,483	674	8,205	0	0	0	11,699	674	0	0	1,579	0
Wayne	15,356	2,206	5,049	0	0	0	9,775	2,206	0	0	532	0
Wheeler	1,892	1,500	616	243	0	177	1,089	1,080	0	0	187	0
All counties	376,327	84,586	181,119	9,689	13,279	3,530	170,080	71,367	537	0	11,312	0

^a Includes roundwood that was delivered to nonpulpmills and then chipped and sold to pulpmills (8,349,000 cubic feet in 1995).

Table 17—Roundwood timber products output by product and species group, Southwest Georgia, 1992 and 1995

Product and species group	Year		Change	Percent change
	1992	1995		
<i>Thousand cubic feet</i>				
Saw logs				
Softwood	67,051	67,550	499	0.7
Hardwood	6,294	4,612	-1,682	-26.7
Total	73,345	72,162	-1,183	-1.6
Veneer logs				
Softwood	6,617	8,417	1,800	27.2
Hardwood	2,142	4,375	2,233	104.2
Total	8,759	12,792	4,033	46.0
Pulpwood^a				
Softwood	44,395	47,048	2,653	6.0
Hardwood	11,905	19,916	8,011	67.3
Total	56,300	66,964	10,664	18.9
Composite panels				
Softwood	6,170	4,297	-1,873	-30.4
Hardwood	4,550	7,160	2,610	57.4
Total	10,720	11,457	737	6.9
Other industrial				
Softwood	7,435	2,087	-5,348	-71.9
Hardwood	0	9	9	--
Total	7,435	2,096	-5,339	-71.8
All industrial				
Softwood	131,668	129,399	-2,269	-1.7
Hardwood	24,891	36,072	11,181	44.9
Total	156,559	165,471	8,912	5.7

-- = negligible.

^a Includes roundwood that was delivered to nonpulpmills and then chipped and sold to pulp mills (2,408,000 cubic feet in 1992 and 3,493,000 cubic feet in 1995).

Table 18—Roundwood timber products output by county, product, and species group, Southwest Georgia, 1995

County	All products		Saw logs		Veneer logs		Pulpwood ^a		Composite panels		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>											
Baker	2,284	298	163	0	434	0	1,687	298	0	0	0	0
Ben Hill	8,149	4,159	4,076	768	715	1,259	2,394	2,132	806	0	158	0
Berrien	13,780	1,052	9,949	36	618	0	2,924	505	0	511	289	0
Brooks	4,859	3,884	3,264	0	0	25	1,329	1,813	0	2,046	266	0
Colquitt	9,179	1,758	7,475	0	0	16	1,577	719	0	1,023	127	0
Cook	8,591	845	6,965	51	0	25	1,626	258	0	511	0	0
Crisp	5,879	1,517	3,456	37	357	0	933	1,480	1,075	0	58	0
Decatur	6,147	4,001	1,318	1,357	923	831	3,901	1,813	0	0	5	0
Dooly	2,419	602	1,518	415	0	0	633	187	268	0	0	0
Early	4,283	1,508	728	117	559	151	2,996	1,240	0	0	0	0
Grady	5,520	3,488	972	427	923	288	3,620	2,773	0	0	5	0
Irwin	4,760	1,156	2,913	7	536	899	985	250	268	0	58	0
Lanier	6,934	198	3,402	0	0	0	3,113	198	0	0	419	0
Lowndes	8,080	2,645	4,676	0	0	25	3,031	574	0	2,046	373	0
Miller	2,852	619	163	106	885	151	1,804	362	0	0	0	0
Mitchell	4,935	2,184	1,359	121	543	34	3,028	2,029	0	0	5	0
Seminole	1,336	375	423	106	559	151	354	118	0	0	0	0
Thomas	5,709	2,943	1,655	227	651	161	3,398	1,532	0	1,023	5	0
Tift	4,259	251	2,641	0	0	0	1,076	251	537	0	5	0
Turner	4,600	167	2,228	37	357	0	1,449	130	537	0	29	0
Wilcox	6,102	1,521	3,660	663	357	359	1,927	490	0	0	158	9
Worth	8,742	901	4,546	137	0	0	3,263	764	806	0	127	0
All counties	129,399	36,072	67,550	4,612	8,417	4,375	47,048	19,916	4,297	7,160	2,087	9

^a Includes roundwood that was delivered to nonpulp mills and then chipped and sold to pulp mills (3,493,000 cubic feet in 1995).

Table 19—Roundwood timber products output by product and species group, Central Georgia, 1992 and 1995

Product and species group	Year		Change	Percent change
	1992	1995		
<i>Thousand cubic feet</i>				
Saw logs				
Softwood	116,134	162,539	46,405	40.0
Hardwood	29,128	31,044	1,916	6.6
Total	145,262	193,583	48,321	33.3
Veneer logs				
Softwood	27,009	25,492	-1,517	-5.6
Hardwood	8,811	8,812	1	--
Total	35,820	34,304	-1,516	-4.2
Pulpwood^a				
Softwood	116,378	131,863	15,485	13.3
Hardwood	46,964	77,213	30,249	64.4
Total	163,342	209,076	45,734	28.0
Composite panels				
Softwood	5,498	6,098	600	10.9
Hardwood	228	624	396	173.7
Total	5,726	6,722	996	17.4
Other industrial				
Softwood	1,556	466	-1,090	-70.1
Hardwood	14	57	43	307.1
Total	1,570	523	-1,047	-66.7
All industrial				
Softwood	266,575	326,458	59,883	22.5
Hardwood	85,145	117,750	32,605	38.3
Total	351,720	444,208	92,488	26.3

-- = negligible.

^a Includes roundwood that was delivered to nonpulpmills and then chipped and sold to pulpmills (6,565,000 cubic feet in 1992 and 8,542,000 cubic feet in 1995).

Table 20—Roundwood timber products output by county, product, and species group, Central Georgia, 1995

County	All products		Saw logs		Veneer logs		Pulpwood ^a		Composite panels		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>												
Baldwin	6,481	2,201	2,879	385	838	489	2,761	1,327	0	0	3	0
Bibb	4,109	1,556	1,594	576	251	108	2,264	872	0	0	0	0
Bleckley	1,598	782	282	248	0	0	1,169	525	0	0	147	9
Burke	9,064	7,549	6,018	1,000	0	0	3,040	6,549	0	0	6	0
Butts	5,895	2,070	2,271	1,251	838	180	2,786	639	0	0	0	0
Calhoun	425	1,693	185	519	0	406	240	768	0	0	0	0
Chattahoochee	5,520	564	4,524	147	0	0	996	417	0	0	0	0
Clay	2,585	1,380	999	11	16	792	1,570	577	0	0	0	0
Columbia	6,812	1,081	6,012	185	0	0	800	896	0	0	0	0
Crawford	11,432	3,209	5,043	96	743	623	5,378	2,490	268	0	0	0
Dougherty	4,330	545	2,646	150	0	0	1,684	395	0	0	0	0
Glascocock	2,835	2,047	2,089	1,220	0	0	746	827	0	0	0	0
Greene	6,900	2,141	5,402	200	0	0	679	1,697	791	244	28	0
Hancock	10,218	4,437	4,030	727	0	0	6,188	3,710	0	0	0	0
Harris	9,734	3,181	3,860	956	867	210	5,007	2,013	0	0	0	2
Houston	7,508	1,511	1,051	1,092	0	0	6,457	419	0	0	0	0
Jasper	11,848	3,292	5,146	1,960	2,943	723	3,759	609	0	0	0	0
Jefferson	10,171	4,416	8,084	1,609	0	159	2,082	2,648	0	0	5	0
Jones	7,788	2,455	2,141	346	1,258	723	4,389	1,386	0	0	0	0
Lamar	9,048	535	3,174	424	0	0	5,775	111	0	0	99	0
Lee	2,508	589	1,818	7	0	0	690	582	0	0	0	0
Lincoln	5,134	2,081	4,552	1	0	0	582	2,080	0	0	0	0
McDuffie	5,868	1,315	4,132	453	0	0	1,736	862	0	0	0	0
Macon	3,865	2,097	1,342	1,502	0	0	2,523	555	0	0	0	40
Marion	6,566	2,241	1,965	494	0	0	4,601	1,747	0	0	0	0
Monroe	8,491	1,355	3,999	88	587	180	3,905	1,083	0	0	0	4
Morgan	17,357	3,083	3,439	1,829	9,270	0	2,166	1,117	2,482	137	0	0
Muscogee	5,156	1,129	3,638	73	834	662	684	394	0	0	0	0
Peach	1,426	610	1,259	605	0	0	167	5	0	0	0	0
Pike	4,082	1,446	2,218	760	743	623	1,121	63	0	0	0	0
Pulaski	1,340	1,035	1,086	828	0	0	155	207	0	0	99	0
Putnam	13,472	2,086	4,439	248	2,943	723	5,752	1,100	275	15	63	0
Quitman	3,420	1,590	686	199	0	144	2,734	1,247	0	0	0	0
Randolph	5,595	4,432	2,179	820	0	406	3,416	3,206	0	0	0	0
Richmond	2,325	2,330	1,416	353	0	0	909	1,977	0	0	0	0
Schley	2,763	273	1,622	118	0	0	1,141	155	0	0	0	0
Stewart	10,114	3,203	4,067	402	371	294	5,676	2,507	0	0	0	0
Sumter	3,796	2,666	1,766	111	0	0	2,030	2,555	0	0	0	0
Talbot	9,254	1,897	2,971	517	743	105	5,540	1,275	0	0	0	0
Taliaferro	5,805	2,592	5,126	571	0	0	679	2,021	0	0	0	0
Taylor	3,096	952	1,078	481	247	201	1,503	270	268	0	0	0
Terrell	3,349	1,156	2,179	150	0	0	1,170	1,006	0	0	0	0
Twiggs	6,893	2,820	3,220	1,525	419	108	3,254	1,187	0	0	0	0
Upson	9,581	1,779	5,221	620	743	623	3,617	534	0	0	0	2
Warren	7,027	3,699	3,979	1,055	0	0	3,048	2,644	0	0	0	0
Washington	10,990	8,012	7,322	878	0	222	3,668	6,912	0	0	0	0
Webster	7,048	601	1,081	224	0	0	5,967	377	0	0	0	0
Wilkes	19,300	5,152	13,343	416	0	0	3,927	4,508	2,014	228	16	0
Wilkinson	6,536	8,884	3,966	2,614	838	108	1,732	6,162	0	0	0	0
All counties	326,458	117,750	162,539	31,044	25,492	8,812	131,863	77,213	6,098	624	466	57

^a Includes roundwood that was delivered to nonpulpmills and then chipped and sold to pulpmills (8,542,000 cubic feet in 1995).

Table 21—Roundwood timber products output by product and species group, North Central Georgia, 1992 and 1995

Product and species group	Year		Change	Percent change
	1992	1995		
<i>Thousand cubic feet</i>				
Saw logs				
Softwood	43,666	50,595	6,929	15.9
Hardwood	8,548	12,201	3,653	42.7
Total	52,214	62,796	10,582	20.3
Veneer logs				
Softwood	11,438	11,736	298	2.6
Hardwood	4,242	3,328	-914	-21.5
Total	15,680	15,064	-616	-3.9
Pulpwood^a				
Softwood	43,941	49,308	5,367	12.2
Hardwood	11,964	18,134	6,170	51.6
Total	55,905	67,442	11,537	20.6
Composite panels				
Softwood	24,555	23,116	-1,439	-5.9
Hardwood	1,682	2,279	597	35.5
Total	26,237	25,395	-842	-3.2
Other industrial				
Softwood	561	1,021	460	82.0
Hardwood	260	316	56	21.5
Total	821	1,337	516	62.9
All industrial				
Softwood	124,161	135,776	11,615	9.4
Hardwood	26,696	36,258	9,562	35.8
Total	150,857	172,034	21,177	14.0

^a Includes roundwood that was delivered to nonpulpmills and then chipped and sold to pulpmills (3,726,000 cubic feet in 1992 and 4,662,000 cubic feet in 1995).

Table 22—Roundwood timber products output by county, product, and species group, North Central Georgia, 1995

County	All products		Saw logs		Veneer logs		Pulpwood ^a		Composite panels		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>												
Banks	3,115	716	815	358	0	41	88	5	2,212	302	0	10
Barrow	1,515	821	0	0	337	0	307	733	869	88	2	0
Carroll	6,240	2,901	2,922	1,131	371	105	2,947	1,437	0	0	0	228
Clarke	379	200	178	88	168	0	33	112	0	0	0	0
Clayton	1,239	45	1,013	45	0	0	226	0	0	0	0	0
Cobb	415	505	10	424	0	0	405	71	0	0	0	10
Coweta	8,750	1,947	3,510	374	619	162	4,621	1,411	0	0	0	0
De Kalb	612	7	286	7	0	0	326	0	0	0	0	0
Douglas	851	70	179	4	0	0	672	66	0	0	0	0
Elbert	7,257	2,364	2,699	41	0	0	1,256	2,031	2,722	292	580	0
Fayette	3,411	1,235	1,330	325	743	623	1,338	287	0	0	0	0
Forsyth	1,169	327	311	141	0	105	83	18	775	63	0	0
Franklin	2,033	534	958	310	0	41	800	168	275	15	0	0
Fulton	3,048	706	1,184	514	0	0	1,864	192	0	0	0	0
Gwinnett	2,660	649	616	12	0	0	1,888	609	0	0	156	28
Hall	2,181	425	1,108	319	0	41	695	30	275	15	103	20
Haralson	3,780	1,908	1,834	848	0	0	1,946	1,060	0	0	0	0
Hart	1,178	238	1,072	29	0	41	67	168	0	0	39	0
Heard	5,249	2,474	1,700	1,247	1,238	383	2,311	844	0	0	0	0
Henry	3,912	501	2,322	407	0	0	1,590	94	0	0	0	0
Jackson	7,586	773	688	55	674	0	1,231	304	4,992	414	1	0
Madison	3,694	299	6	7	674	0	1,125	79	1,805	213	84	0
Meriwether	15,955	2,237	7,997	640	1,486	383	6,472	1,214	0	0	0	0
Newton	8,739	957	1,956	272	1,681	397	2,620	151	2,482	137	0	0
Oconee	2,075	1,378	203	741	674	0	329	549	869	88	0	0
Oglethorpe	11,385	3,826	5,312	862	0	0	1,026	2,391	4,992	573	55	0
Paulding	5,937	1,389	2,099	502	0	0	3,838	867	0	0	0	20
Polk	5,718	998	2,678	158	0	0	3,040	840	0	0	0	0
Rockdale	508	172	5	117	0	0	503	55	0	0	0	0
Spalding	3,620	1,263	1,753	548	743	623	1,124	92	0	0	0	0
Troup	8,257	3,089	3,154	899	1,486	383	3,617	1,807	0	0	0	0
Walton	3,308	1,304	697	776	842	0	920	449	848	79	1	0
All counties	135,776	36,258	50,595	12,201	11,736	3,328	49,308	18,134	23,116	2,279	1,021	316

^a Includes roundwood that was delivered to nonpulp mills and then chipped and sold to pulpmills (4,662,000 cubic feet in 1995).

Table 23—Roundwood timber products output by product and species group, North Georgia, 1992 and 1995

Product and species group	Year		Change	Percent change
	1992	1995		
<i>Thousand cubic feet</i>				
Saw logs				
Softwood	22,422	25,045	2,623	11.7
Hardwood	7,907	7,815	-92	-1.2
Total	30,329	32,860	2,531	8.3
Veneer logs				
Softwood	0	0	0	--
Hardwood	508	322	-186	-36.6
Total	508	322	-186	-36.6
Pulpwood^a				
Softwood	30,903	24,508	-6,395	-20.7
Hardwood	5,429	7,828	2,399	44.2
Total	36,332	32,336	-3,996	-11.0
Composite panels				
Softwood	1,600	2,852	1,252	78.3
Hardwood	128	280	152	118.8
Total	1,728	3,132	1,404	81.3
Other industrial				
Softwood	251	141	-110	-43.8
Hardwood	615	90	-525	-85.4
Total	866	231	-635	-73.3
All industrial				
Softwood	55,176	52,546	-2,630	-4.8
Hardwood	14,587	16,335	1,748	12.0
Total	69,763	68,881	-882	-1.3

-- = negligible.

^a Includes roundwood that was delivered to nonpulp mills and then chipped and sold to pulp mills (1,139,000 cubic feet in 1992 and 528,000 cubic feet in 1995).

Table 24—Roundwood timber products output by county, product, and species group, North Georgia, 1995

County	All products		Saw logs		Veneer logs		Pulpwood ^a		Composite panels		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>											
Bartow	4,951	1,567	1,233	42	0	0	3,718	1,525	0	0	0	0
Catoosa	578	32	382	27	0	0	179	5	0	0	17	0
Chattooga	2,209	1,260	350	622	0	0	1,859	638	0	0	0	0
Cherokee	3,689	784	2,301	359	0	0	1,388	390	0	0	0	35
Dade	872	461	824	191	0	0	48	270	0	0	0	0
Dawson	3,120	595	765	219	0	26	1,547	287	808	63	0	0
Fannin	2,845	1,103	2,059	1,080	0	16	786	7	0	0	0	0
Floyd	11,423	2,517	3,778	802	0	0	7,377	1,710	268	5	0	0
Gilmer	3,366	1,388	1,384	880	0	34	1,982	474	0	0	0	0
Gordon	1,123	538	314	104	0	0	809	434	0	0	0	0
Habersham	2,839	350	2,799	299	0	41	26	0	0	0	14	10
Lumpkin	1,010	350	883	286	0	41	127	13	0	0	0	10
Murray	1,823	684	1,004	529	0	0	819	155	0	0	0	0
Pickens	1,184	845	58	72	0	0	1,126	738	0	0	0	35
Rabun	1,099	877	1,083	822	0	41	16	14	0	0	0	0
Stephens	2,106	502	1,608	275	0	41	103	101	395	85	0	0
Towns	79	213	63	158	0	41	16	14	0	0	0	0
Union	69	220	36	192	0	0	33	28	0	0	0	0
Walker	1,045	1,212	142	387	0	0	793	825	0	0	110	0
White	3,511	255	2,078	87	0	41	52	0	1,381	127	0	0
Whitfield	3,605	582	1,901	382	0	0	1,704	200	0	0	0	0
All counties	52,546	16,335	25,045	7,815	0	322	24,508	7,828	2,852	280	141	90

^a Includes roundwood that was delivered to nonpulp mills and then chipped and sold to pulpmills (528,000 cubic feet in 1995).

Table 25—Total roundwood output by product, species group, and source of material, Georgia, 1995

Product and species group	All sources	Total	Growing-stock trees		Other sources
			Sawtimber	Poletimber	
<i>Thousand cubic feet</i>					
Saw logs					
Softwood	486,848	474,423	465,613	8,810	12,425
Hardwood	65,361	62,533	58,811	3,722	2,828
Total	552,209	536,956	524,424	12,532	15,253
Veneer logs and bolts					
Softwood	58,924	57,740	55,106	2,634	1,184
Hardwood	20,367	20,207	20,207	0	160
Total	79,291	77,947	75,313	2,634	1,344
Pulpwood					
Softwood	422,807	361,852	147,624	214,228	60,955
Hardwood	194,458	178,020	78,077	99,943	16,438
Total	617,265	539,872	225,701	314,171	77,393
Composite panel					
Softwood	36,900	31,580	12,884	18,696	5,320
Hardwood	10,343	9,469	4,153	5,316	874
Total	47,243	41,049	17,037	24,012	6,194
Poles and posts					
Softwood	11,969	11,483	11,031	452	486
Hardwood	0	0	0	0	0
Total	11,969	11,483	11,031	452	486
Other miscellaneous					
Softwood	3,058	2,707	1,581	1,126	351
Hardwood	472	418	244	174	54
Total	3,530	3,125	1,825	1,300	405
Total industrial products					
Softwood	1,020,506	939,785	693,839	245,946	80,721
Hardwood	291,001	270,647	161,492	109,155	20,354
Total	1,311,507	1,210,432	855,331	355,101	101,075
Fuelwood					
Softwood	17,287	6,485	4,469	2,016	10,802
Hardwood	113,421	51,040	39,166	11,874	62,381
Total	130,708	57,525	43,635	13,890	73,183
All products					
Softwood	1,037,793	946,270	698,308	247,962	91,523
Hardwood	404,422	321,687	200,658	121,029	82,735
Total	1,442,215	1,267,957	898,966	368,991	174,258

Table 26—Total roundwood output by species group, survey unit, and ownership, Georgia, 1995

Species group and survey unit	Total	National forest	Other public	Forest industry	Nonindustrial private
<i>Thousand cubic feet</i>					
Softwoods					
Southeast	382,700	0	6,560	180,581	195,559
Southwest	131,593	0	2,578	28,756	100,259
Central	331,986	7,080	13,397	109,370	202,140
North Central	138,077	0	2,911	29,757	105,410
North	53,437	5,121	2,963	6,529	38,823
Total softwoods	1,037,793	12,201	28,409	354,993	642,190
Hardwoods					
Southeast	117,557	0	356	50,771	66,430
Southwest	50,130	0	0	2,764	47,366
Central	163,644	670	3,376	46,689	112,909
North Central	50,389	0	1,030	10,109	39,251
North	22,702	5,368	82	2,885	14,367
Total hardwoods	404,422	6,038	4,843	113,218	280,323
All species	1,442,215	18,239	33,252	468,211	922,513

Table 27—Total roundwood output by species group, detailed species group, and product, Georgia, 1995

Species group and detailed species group	Product							
	Total	Saw log	Veneer	Pulpwood	Composite panel	Fuelwood	Poles and posts	Other miscellaneous
<i>Thousand cubic feet</i>								
Softwood								
Cedar	1,382	602	25	538	175	23	0	20
Longleaf-slash pine	431,025	211,654	17,500	179,677	4,377	7,180	9,275	1,362
White pine	2,239	1,117	0	1,085	0	37	0	0
Loblolly-shortleaf pine	548,847	247,447	39,437	220,138	29,498	9,143	1,795	1,389
Other yellow pines	38,291	18,116	1,407	14,582	2,815	638	532	201
Cypress	14,365	7,108	554	5,976	35	239	367	86
Hemlock	1,644	804	0	812	0	27	0	0
Total softwoods	1,037,793	486,848	58,924	422,807	36,900	17,287	11,969	3,058
Hardwood								
Soft maple	24,182	3,540	1,401	11,280	1,170	6,782	0	10
Hard maple	490	79	26	248	0	138	0	0
Other birch	727	215	9	297	2	204	0	0
Hickory	14,276	2,923	702	6,384	246	4,004	0	16
Beech	1,694	419	119	664	0	475	0	16
Ash	4,911	918	257	2,334	16	1,377	0	9
Black walnut	369	123	54	88	0	103	0	0
Sweetgum	80,135	14,799	4,411	37,517	901	22,473	0	33
Yellow-poplar	32,683	6,369	2,084	14,314	661	9,166	0	90
Blackgum-tupelo	44,361	3,861	1,802	24,636	1,618	12,442	0	2
Sycamore	545	112	42	236	1	153	0	1
Black cherry	1,635	311	107	702	45	458	0	12
Select white oaks	29,747	5,562	1,033	14,158	586	8,343	0	66
Other white oaks	17,905	2,767	1,246	8,380	464	5,022	0	27
Select red oaks	10,082	2,311	453	4,275	214	2,827	0	1
Other red oaks	108,581	15,665	4,850	54,258	3,188	30,452	0	168
Elm	6,538	1,259	337	3,061	45	1,833	0	2
Other Eastern hardwoods	25,563	4,127	1,434	11,627	1,186	7,169	0	20
Total hardwoods	404,422	65,361	20,367	194,458	10,343	113,421	0	472
All species	1,442,215	552,209	79,291	617,265	47,243	130,708	11,969	3,530

Table 28—Total roundwood output by species group, detailed species group, and ownership, Georgia, 1995

Species group and detailed species group	Total	National forest	Other public	Forest industry	Nonindustrial private
<i>Thousand cubic feet</i>					
Softwood					
Cedar	1,382	0	81	303	998
Longleaf-slash pine	431,025	0	8,243	179,189	243,593
White pine	2,239	941	0	53	1,245
Loblolly-shortleaf pine	548,847	8,879	19,852	159,953	360,163
Other yellow pines	38,291	1,586	210	8,852	27,642
Cypress	14,365	0	22	6,642	7,701
Hemlock	1,644	795	0	0	849
Total softwoods	1,037,793	12,201	28,409	354,993	642,190
Hardwood					
Soft maple	24,182	539	47	8,121	15,476
Hard maple	490	0	0	255	236
Other birch	727	134	0	147	447
Hickory	14,276	181	122	3,372	10,601
Beech	1,694	107	0	83	1,504
Ash	4,911	0	38	1,595	3,277
Black walnut	369	0	0	161	208
Sweetgum	80,135	213	1,684	25,975	52,263
Yellow-poplar	32,683	980	568	8,581	22,553
Blackgum-tupelo	44,361	76	201	14,382	29,702
Sycamore	545	0	0	89	456
Black cherry	1,635	0	0	249	1,386
Select white oaks	29,747	1,157	515	6,855	21,219
Other white oaks	17,905	532	358	3,776	13,238
Select red oaks	10,082	535	239	2,775	6,532
Other red oaks	108,581	1,065	835	29,896	76,785
Elm	6,538	0	96	1,400	5,042
Other Eastern hardwoods	25,563	518	140	5,506	19,399
Total hardwoods	404,422	6,038	4,843	113,218	280,323
All species	1,442,215	18,239	33,252	468,211	922,513



The Forest Service, U.S. Department of Agriculture, is dedicated to the principle of multiple use management of the Nation's forest resources for sustained yields of wood, water, forage, wildlife, and recreation. Through forestry research, cooperation with the States and private forest owners, and management of the National Forests and National Grasslands, it strives—as directed by Congress—to provide increasingly greater service to a growing Nation.

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Johnson, Tony G.; Jenkins, Anne; Wells, John L. 1997. Georgia's timber industry—an assessment of timber product output and use, 1995. Resour. Bull. SRS-14. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 37 p.

In 1995, roundwood output from Georgia's forests totaled 1.3 billion cubic feet, 7 percent more than in 1992. Mill byproducts generated from primary manufacturers declined 10 percent to 474 million cubic feet. Almost all plant residues were used, primarily for fuel and fiber products. Pulpwood was the leading roundwood product at 617 million cubic feet; saw logs ranked second at 552 million cubic feet; veneer logs were third with 79 million cubic feet. The number of primary processing plants declined from 250 in 1992 to 207 in 1995. Total receipts increased 6 percent to almost 1.4 billion cubic feet.

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

United States
Department of Agriculture

Forest Service

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