

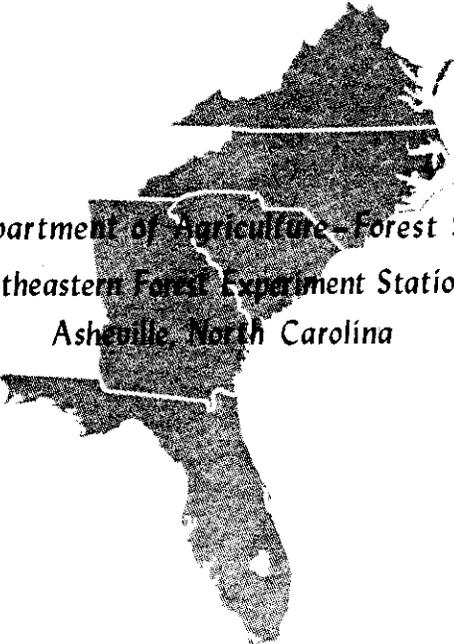
# Changes in Output of Industrial Timber Products in Georgia, 1971-1974

by

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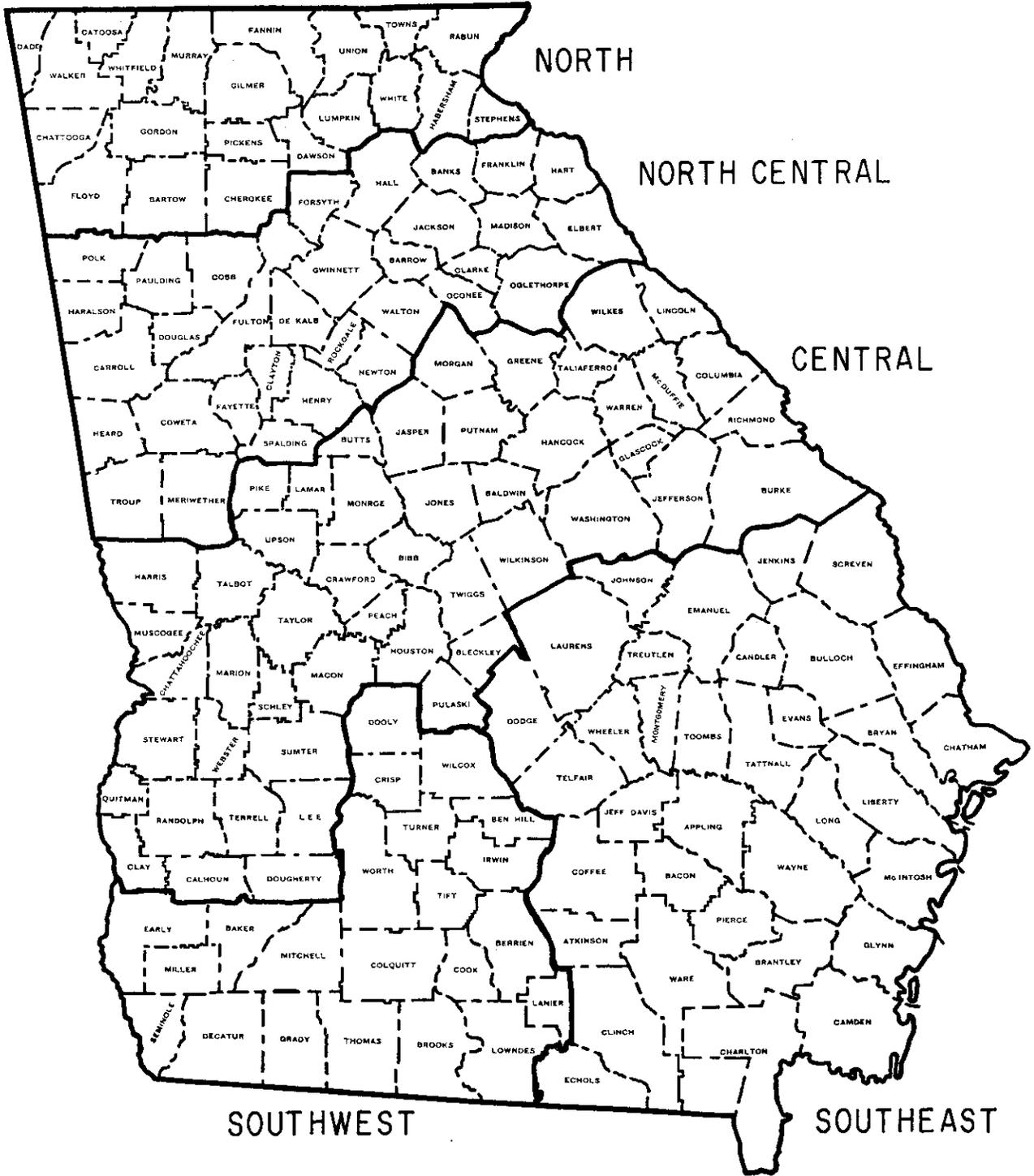
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# GEORGIA



Forest Survey Regions in Georgia.

# Changes in Output of Industrial Timber Products in Georgia, 1971-1974

by

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Abstract.--The total output of industrial timber products in Georgia amounted to almost 986 million cubic feet in 1974, 7 percent more than in 1971. Production of all major roundwood products and plant byproducts from softwood and hardwood species increased. Of the five Forest Survey Regions in the State, the Southeast Region had the largest total output, the Southwest Region had the greatest percentage increase, and the Central Region had the greatest volume increase. The volume of unused plant residues produced in the State declined by 38 percent between 1971 and 1974, and the volume of unused bark dropped by 35 percent.

Keywords: Roundwood products, plant byproducts, softwood products, hardwood products, unused plant residues, roundwood receipts.

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Between detailed timber surveys, which are made at 10-year intervals in Southeastern States, the easiest way to keep track of timber cutting in a State is to ask forest industries how much wood they are using and where it is coming from. A mill owner is willing to supply these figures because, when compiled, they help him determine how much wood is available to his mill. This Bulletin reports the principal changes in use of Georgia wood by forest industries between 1971 and 1974.

Since one objective was to learn how much wood was being removed from the State's forests, only primary processing plants were considered. A plant that converts boards from a sawmill into furniture, for example, was classed as a secondary processor and was not considered here. Total use of wood by primary processing plants is here called output of industrial timber products. The data reported were obtained by canvassing all such plants that processed Georgia wood during 1971 and 1974. Output was divided into two components--roundwood products and plant byproducts. The second component consists of those initial residues from primary plants that were used as a roundwood substitute.

In some parts of Georgia, utilization of forests for timber products was much heavier than in others. Output of industrial timber products is therefore reported for regions within the State as well as for Georgia as a whole.

In the Southeast Region, where timber was being harvested almost as rapidly as it was growing in 1971, the roundwood harvest declined. The demand for wood remained high in this region, but many of its plants began getting their roundwood from the Southwest or Central Region or from other States. As a result, output of industrial timber products in the Central and Southwest Regions of Georgia was up.

Output also increased substantially in the North Central Region (the Georgia Piedmont). Part of the increase here was caused by salvage of trees killed by the southern pine beetle.

In the northernmost part of Georgia, there was a decline in numbers of mills and in production of saw logs. Even so, much of the wood processed in the region was obtained from other regions.

#### STATEWIDE TRENDS

The total output of industrial timber products in Georgia amounted to almost 986 million cubic feet in 1974, 7 percent more than in 1971. Production of saw logs, veneer logs, pulpwood, and plant byproducts from both softwoods and hardwoods increased during this period. Although the number of primary wood-using plants in the State dropped from 368 in 1971 to 366 in 1974 (fig. 1), the total roundwood received by such plants increased slightly--from 828.9 to 829.2 million cubic feet.

The roundwood received from within and outside the State in 1974 was 22 million cubic feet less than the roundwood harvested in Georgia that year. This was a reversal of the situation in 1971, when roundwood receipts exceeded the roundwood harvest by 27 million cubic feet. The downward trend in receipts probably did not develop until 1974. By the end of that year, the number of sawmills in operation had dropped from a maximum of 301 to only 281.

Plant byproducts were increasingly used as a roundwood substitute during the 4-year period. Such byproducts comprised 1 percent more of the total output of timber products in 1974 than in 1971. Over the past 14 years, this trend has resulted in a 68-percent increase in the total supply of Georgia's timber products, while the production of roundwood has increased by only 55 percent.

Although softwoods provided the bulk of Georgia's industrial timber products throughout the 4-year period, the production from hardwoods increased almost 20 percent, while that from softwoods increased only 5 percent. The increase in demand for hardwood products should result in a badly needed improvement in hardwood utilization.

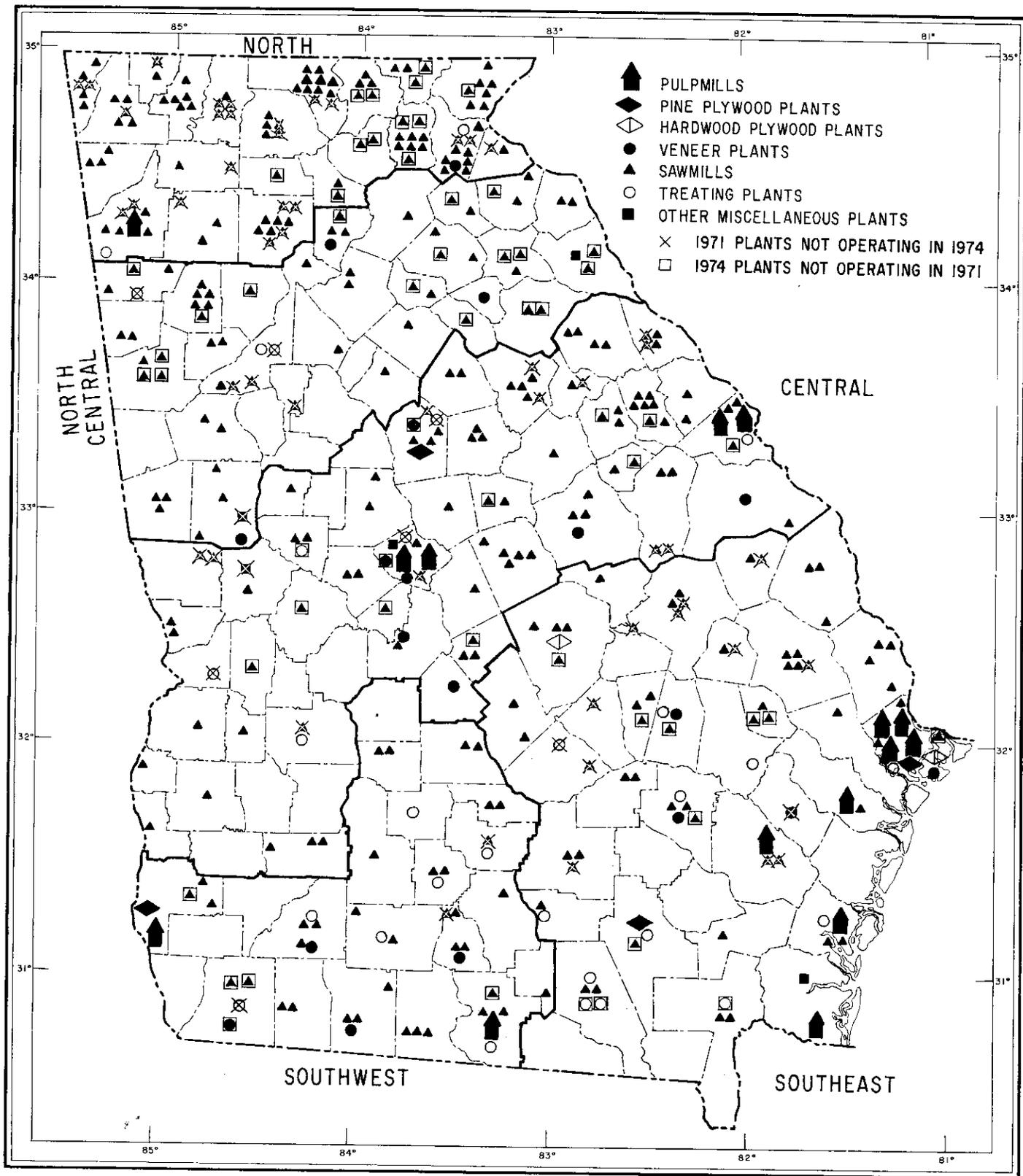


Figure 1. --Location of primary wood-using plants in Georgia, 1974.

The proportions of Georgia's harvest used for the various industrial products changed little between 1971 and 1974. Pulpwood continued to be the leading product, making up over 60 percent of the total output in the latter year. The only decline between 1971 and 1974 was in the use of roundwood for miscellaneous products such as poles, piling, fence posts, and cooperage bolts. Gains in the use of plant byproducts for these miscellaneous products more than offset this reduction in roundwood.

## REGIONAL CHANGES

In 1971, serious problems in timber supply existed within several of Georgia's five Survey Regions. As a result, changes have occurred in the sources of wood used and in production by the primary processing plants in some of these regions.

### Southeast Region

In 1971 and 1974, the Southeast Region had the largest total output of industrial timber products in the State. Regional production of round softwood, however, dropped by over 6 percent between 1971 and 1974. And in the southernmost portion of the region, roundwood production declined from both softwoods and hardwoods (fig. 2). These declines should help to correct a potential imbalance that existed in the regional timber supply in 1971. At that time, net growth of softwoods exceeded total timber removals of this species group by only 8 percent throughout the region, and in the southernmost portion the total timber removals of both species groups exceeded the net growth by 16 percent.

The decline in production of round softwood was partially offset by a 35-percent increase in the output of plant byproducts and a 12-percent increase in production of round hardwood. The net result of these changes was a decline of less than 1 percent in total output of industrial timber products between 1971 and 1974.

Throughout the 4-year period, the number of primary wood-using plants in the Southeast Region remained at 77, and the demand for timber products from the region remained high. Twelve counties in the region each provided roundwood to 20 or more mills within and beyond their borders (fig. 3). The total roundwood receipts in the region amounted to almost 385 million cubic feet, or 46 percent of the total roundwood receipts in the State. Over 37 percent of the regional receipts came from outside the region.

### Southwest Region

In the Southwest Region, the output of industrial timber products rose almost 15 percent between 1971 and 1974--the largest percentage increase in the State. Over 64 percent of the increase came from hardwoods. Production of round softwood increased by 12 percent, while the utilization of softwood residues as byproducts decreased by 16 percent.





Although gains occurred in all major products made from round hardwood, the increase in round softwood was limited to pulpwood and miscellaneous products. The output of softwood saw logs and veneer logs dropped sharply between 1971 and 1974.

Almost half of the 145 million cubic feet of roundwood received in the region during 1974 came from outside its borders. At the same time, over 40 percent of the 125 million cubic feet of harvested roundwood was sent to plants outside the region.

According to the 1971 Forest Survey for the Southwest Region, the increased production of round softwood will not cause any immediate problems to the region's timber resources. However, a major increase in the softwood acreage harvested could result in long-range problems for the region. Unless the natural succession of species is prevented, many of the harvested softwood stands will be converted to hardwoods. If this hardwood encroachment is not controlled, the region will lose the prospective growth on the harvested acres. To avoid this loss, reforestation should be increased in the region to match the increased harvesting.

### Central Region

In the Central Region, the output of industrial timber products increased by 36 million cubic feet between 1971 and 1974--the largest volume increase in the State. Production rose from both species groups, with softwoods providing more than three-fourths of the total increase.

Although the region's total harvest in 1974 was only slightly below that of the Southeast Region, over 42 percent of its harvested wood was sent to plants outside its borders. Almost 40 percent of this exported wood went to the Southeast Region. Wood receipts at the Central Region's primary plants were only half the amount received in the Southeast.

Production of round softwood in the Central Region increased by 12 percent during the 4-year period. The 1971 Forest Survey for the Central Region indicated that this increase would not cause an immediate resource problem in the region. As in the Southwest Region, however, the need for increased reforestation is evident.

### North Central Region

In the North Central Region, the total output of industrial timber products increased 14 percent between 1971 and 1974. Softwood roundwood and plant by-products accounted for all of the increase. Production of softwood pulpwood was up by 10 million cubic feet.

There were 15 more sawmills operating in this region in 1974 than in 1971, and the output of softwood saw logs was up by 5 million cubic feet. Most of the new sawmills were in areas where outbreaks of the southern pine beetle were most severe; thus, much of the increase in softwood production could have resulted from salvage operations.

In 1974, the North Central Region had the smallest volume of roundwood receipts in the State. Almost 62 percent of its harvested roundwood was pulpwood, and all of this pulpwood was sent to outside mills.

### North Region

In the North Region, the total output of industrial timber products dropped by over 2 million cubic feet between 1971 and 1974. Production of roundwood and plant byproducts from both species groups was down. The number of sawmills operating in the region dropped from 92 in 1971 to 81 in 1974, and the harvest of saw logs dropped by 18 percent. A 14-percent increase in the production of pulpwood was not enough to offset the loss in saw logs.

In 1974, roundwood receipts in the North Region exceeded the roundwood harvest by 20 percent. Roughly 64 percent of the region's receipts of round pulpwood came from outside the region.

### PLANT RESIDUES

Of the 829.2 million cubic feet of roundwood receipts in the State in 1974, 650.5 million cubic feet were used for principal products. The remaining 178.7 million cubic feet consisted of initial plant residues. Subsequently, 133.9 million cubic feet of the initial residues--primarily the coarse material such as slabs, edgings, and veneer cores--were used as a roundwood substitute and processed as small saw logs, pulpwood, and miscellaneous products; an additional 19.2 million cubic feet were used for fuel. Only 25.5 million cubic feet, or 14 percent, of the initial plant residues were not utilized as a plant byproduct or fuel. These figures represent a decided improvement over those for 1971, when 41.4 million cubic feet, or 26 percent, of the initial plant residues were not used.

Although softwoods made up 84 percent of the roundwood receipts in 1974, they accounted for only 59 percent of the unused plant residues. Most unused plant residues from both species groups were produced at sawmills in the form of sawdust and other fine material. The largest volumes of unused residues were produced in the Southeast and Central Regions.

In addition to wood residues, almost 2.7 million tons of bark were accumulated by primary wood-using industries in Georgia in 1974. Utilization of such bark increased from just over 50 percent in 1971 to over 70 percent in 1974. During both years, most of this bark was used for industrial fuel. Other uses included mulch, fiber products, domestic fuel, and charcoal; the volume of bark used for these products has more than doubled since 1971.

## HOW THE STUDY WAS MADE

Two methods were used to obtain data on Georgia's output of industrial timber products in 1971 and 1974. All pulpmills that drew wood from Georgia during those years were canvassed by mail. Personal interviews were conducted at all other primary wood-using industries that draw wood from Georgia during the two survey years. The pulpmills were canvassed by the Southeastern Forest Experiment Station in cooperation with the American Pulpwood Association. Interviews at the other industries were conducted by the Georgia Forestry Commission, and the data were processed by the Southeastern Station.

Detailed data from these surveys appear in the Appendix in tables 1-13. Some small mills were missed, and some reporting errors exist. Although these omissions and errors have little or no effect on the State or regional figures presented, they could greatly affect some of the county figures. County figures, therefore, should be used only in compiling information on groups of counties.

# APPENDIX

## Definitions of Terms

Coarse residues. --Wood residues suitable for chipping, such as slabs, edgings, and veneer cores.

Fine residues. --Wood residues not suitable for chipping, such as sawdust and shavings.

Growing-stock trees. --Live trees of commercial species that either contain or are capable of producing at least one 12-foot saw log.

Growing-stock volume. --Net volume in cubic feet of growing-stock trees 5.0 inches d. b. h. and over, from a 1-foot stump to a minimum 4.0-inch top diameter outside bark of the central stem, or to the point where the central stem breaks into limbs. (Net volume in primary forks is included.)

Hardwoods. --Dicotyledonous trees, usually broad leaved and deciduous.

Industrial wood. --All roundwood products except fuelwood.

Net annual growth. --The increase in volume for a specific year.

Plant byproducts. --Wood products, such as pulp chips, obtained incidentally to production of other manufactured products.

Primary wood-using plants (industries). --Those plants or industries that utilized roundwood products in the manufacture of their principal products. (Plants that utilize only plant byproducts as a substitute for roundwood are included.)

Roundwood products. --Logs, bolts, or other round sections cut from trees for industrial or consumer uses.

Softwoods. --Coniferous trees, usually evergreen, having needles or scale-like leaves.

Timber products. --Roundwood products and plant byproducts.

Timber removals. --The net volume of growing-stock trees removed from the inventory by harvesting; by cultural operations such as stand improvement; or by land clearing or changes in land use.

Unused plant residues. --Wood material from manufacturing plants not utilized for some product.

Conversion Factors  
Cubic feet of wood per standard unit

| Product        | Standard unit                    | Softwood | Hardwood |
|----------------|----------------------------------|----------|----------|
| Saw logs       | Thousand board feet <sup>1</sup> | 198.005  | 188.986  |
| Veneer logs    | Thousand board feet <sup>1</sup> | 177.145  | 172.005  |
| Pulpwood       | Standard cords                   | 74.490   | 75.600   |
| Other products | Thousand cubic feet              | .001     | .001     |

<sup>1</sup> International  $\frac{1}{4}$ -inch rule.

## BIBLIOGRAPHY

- Bellamy, Thomas R.  
1971. Forest statistics for southeast Georgia, 1971. USDA For. Serv. Resour. Bull. SE-21, 34 p. Southeast. For. Exp. Stn., Asheville, N.C.
- Bellamy, Thomas R.  
1972. Southern pulpwood production, 1971. USDA For. Serv. Resour. Bull. SE-23, 20 p. Southeast. For. Exp. Stn., Asheville, N.C.
- Bellamy, Thomas R.  
1974. Roundwood movement between Georgia and other states, 1971. USDA For. Serv. Res. Note SE-199, 3 p. Southeast. For. Exp. Stn., Asheville, N.C.
- Bellamy, Thomas R.  
1974. Southern pulpwood production, 1973. USDA For. Serv. Resour. Bull. SE-29, 22 p. Southeast. For. Exp. Stn., Asheville, N.C.
- Bertelson, Daniel F.  
1973. Southern pulpwood production, 1972. USDA For. Serv. Resour. Bull. SO-41, 25 p. South. For. Exp. Stn., New Orleans, La.
- Bertelson, Daniel F.  
1975. Southern pulpwood production, 1974. USDA For. Serv. Resour. Bull. SO-54, 24 p. South. For. Exp. Stn., New Orleans, La.
- Boyce, Stephen G., and Joe P. McClure  
1975. How to keep one-third of Georgia in pine. USDA For. Serv. Res. Pap. SE-144, 23 p. Southeast. For. Exp. Stn., Asheville, N.C.
- Butts, Paul M., and Wesley L. Wells, Jr.  
1975. Wood-using industries in Georgia: a utilization report and directory. Ga. For. Comm., Macon, Ga.
- Cathey, Robert A.  
1972. Forest statistics for central Georgia, 1972. USDA For. Serv. Resour. Bull. SE-22, 34 p. Southeast. For. Exp. Stn., Asheville, N.C.
- Georgia Forestry Commission  
1974. Southern pine beetle infestation moderate. Ga. For. 4(29):4-5.
- Knight, Herbert A.  
1971. Forest statistics for southwest Georgia, 1971. USDA For. Serv. Resour. Bull. SE-19, 34 p. Southeast. For. Exp. Stn., Asheville, N.C.
- Knight, Herbert A.  
1972. Forest statistics for north central Georgia, 1972. USDA For. Serv. Resour. Bull. SE-24, 34 p. Southeast. For. Exp. Stn., Asheville, N.C.
- Knight, Herbert A.  
1973. Forest statistics for north Georgia, 1972. USDA For. Serv. Resour. Bull. SE-25, 34 p. Southeast. For. Exp. Stn., Asheville, N.C.
- Knight, Herbert A.  
1973. Land-use changes which affected Georgia's forest land, 1961-1972. USDA For. Serv. Res. Note SE-189, 4 p. Southeast. For. Exp. Stn., Asheville, N.C.

Knight, Herbert A., and Joe P. McClure

1974. Georgia's timber, 1972. USDA For. Serv. Resour. Bull. SE-27, 48 p. Southeast. For. Exp. Stn., Asheville, N.C.

Larson, Robert W., and Benjamin Spada

1963. Georgia's timber. USDA For. Serv. Resour. Bull. SE-1, 39 p. Southeast. For. Exp. Stn., Asheville, N.C.

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Table 1.--Output of industrial timber products, by source of material, year, product, and species group, Georgia

| Product and species group                      | Total output |         | Roundwood output |         | Byproduct output |         |
|--|--------------|---------|------------------|---------|------------------|---------|
|  | 1971         | 1974    | 1971             | 1974    | 1971             | 1974    |
| - - - - - <u>Thousand cubic feet</u> - - - - - |              |         |                  |         |                  |         |
| Saw logs:                                      |              |         |                  |         |                  |         |
| Softwood                                       | 241,738      | 239,181 | 239,229          | 236,560 | 2,509            | 2,621   |
| Hardwood                                       | 57,599       | 67,323  | 57,502           | 67,201  | 97               | 122     |
| Total  | 299,337      | 306,504 | 296,731          | 303,761 | 2,606            | 2,743   |
| Veneer logs and bolts:                         |              |         |                  |         |                  |         |
| Softwood                                       | 27,147       | 28,765  | 27,147           | 28,765  | --               | --      |
| Hardwood                                       | 13,200       | 15,295  | 13,200           | 15,295  | --               | --      |
| Total  | 40,347       | 44,060  | 40,347           | 44,060  | --               | --      |
| Pulpwood: <sup>1/</sup>                        |              |         |                  |         |                  |         |
| Softwood                                       | 479,047      | 515,493 | 398,001          | 430,584 | 81,046           | 84,909  |
| Hardwood                                       | 62,528       | 76,330  | 46,966           | 56,077  | 15,562           | 20,253  |
| Total  | 541,575      | 591,823 | 444,967          | 486,661 | 96,608           | 105,162 |
| Miscellaneous:                                 |              |         |                  |         |                  |         |
| Softwood                                       | 33,862       | 38,564  | 18,171           | 16,735  | 15,691           | 21,829  |
| Hardwood                                       | 4,610        | 4,619   | 1,590            | 452     | 3,020            | 4,167   |
| Total  | 38,472       | 43,183  | 19,761           | 17,187  | 18,711           | 25,996  |
| All industrial:                                |              |         |                  |         |                  |         |
| Softwood                                       | 781,794      | 822,003 | 682,548          | 712,644 | 99,246           | 109,359 |
| Hardwood                                       | 137,937      | 163,567 | 119,258          | 139,025 | 18,679           | 24,542  |
| Total  | 919,731      | 985,570 | 801,806          | 851,669 | 117,925          | 133,901 |

<sup>1/</sup> 1971 roundwood figures include 16,870 thousand cubic feet of softwood and 1,278 thousand cubic feet of hardwood roundwood chipped at other primary wood-using plants. 1974 roundwood figures include 19,632 thousand cubic feet of softwood and 3,705 thousand cubic feet of hardwood roundwood chipped at other primary wood-using plants.

Table 2.--Output of industrial timber products, by source of material, year, product, and species group, Southeast Region

| Product and species group               | Total output |         | Roundwood output |         | Byproduct output |        |
|---|--------------|---------|------------------|---------|------------------|--------|
|   | 1971         | 1974    | 1971             | 1974    | 1971             | 1974   |
| - - - - - Thousand cubic feet - - - - - |              |         |                  |         |                  |        |
| Saw logs:                               |              |         |                  |         |                  |        |
| Softwood                                | 72,511       | 78,519  | 72,511           | 75,933  | --               | 2,586  |
| Hardwood                                | 7,735        | 12,719  | 7,735            | 12,719  | --               | --     |
| Total                                   | 80,246       | 91,238  | 80,246           | 88,652  | --               | 2,586  |
| Veneer logs and bolts:                  |              |         |                  |         |                  |        |
| Softwood                                | 9,285        | 10,705  | 9,285            | 10,705  | --               | --     |
| Hardwood                                | 3,941        | 3,232   | 3,941            | 3,232   | --               | --     |
| Total                                   | 13,226       | 13,937  | 13,226           | 13,937  | --               | --     |
| Pulpwood: <sup>1/</sup>                 |              |         |                  |         |                  |        |
| Softwood                                | 204,624      | 190,532 | 178,769          | 158,479 | 25,855           | 32,053 |
| Hardwood                                | 20,109       | 20,247  | 16,797           | 16,036  | 3,312            | 4,211  |
| Total                                   | 224,733      | 210,779 | 195,566          | 174,515 | 29,167           | 36,264 |
| Miscellaneous:                          |              |         |                  |         |                  |        |
| Softwood                                | 16,557       | 15,759  | 13,227           | 11,284  | 3,330            | 4,475  |
| Hardwood                                | 9            | 715     | --               | --      | 9                | 715    |
| Total                                   | 16,566       | 16,474  | 13,227           | 11,284  | 3,339            | 5,190  |
| All industrial:                         |              |         |                  |         |                  |        |
| Softwood                                | 302,977      | 295,515 | 273,792          | 256,401 | 29,185           | 39,114 |
| Hardwood                                | 31,794       | 36,913  | 28,473           | 31,987  | 3,321            | 4,926  |
| Total                                   | 334,771      | 332,428 | 302,265          | 288,388 | 32,506           | 44,040 |

<sup>1/</sup> 1971 roundwood figures include 10,986 thousand cubic feet of softwood and 991 thousand cubic feet of hardwood roundwood chipped at other primary wood-using plants. 1974 roundwood figures include 11,327 thousand cubic feet of softwood and 1,560 thousand cubic feet of hardwood roundwood chipped at other primary wood-using plants.

Table 3.--Output of industrial timber products, by source of material, year, product, and species group, Southwest Region

| Product and species group               | Total output |         | Roundwood output |         | Byproduct output |        |
|---|--------------|---------|------------------|---------|------------------|--------|
|   | 1971         | 1974    | 1971             | 1974    | 1971             | 1974   |
| - - - - - Thousand cubic feet - - - - - |              |         |                  |         |                  |        |
| Saw logs:                               |              |         |                  |         |                  |        |
| Softwood                                | 44,460       | 35,882  | 41,992           | 35,882  | 2,468            | --     |
| Hardwood                                | 4,271        | 9,571   | 4,174            | 9,542   | 97               | 29     |
| Total                                   | 48,731       | 45,453  | 46,166           | 45,424  | 2,565            | 29     |
| Veneer logs and bolts:                  |              |         |                  |         |                  |        |
| Softwood                                | 3,104        | 2,966   | 3,104            | 2,966   | --               | --     |
| Hardwood                                | 4,233        | 6,138   | 4,233            | 6,138   | --               | --     |
| Total                                   | 7,337        | 9,104   | 7,337            | 9,104   | --               | --     |
| Pulpwood: <sup>1/</sup>                 |              |         |                  |         |                  |        |
| Softwood                                | 63,204       | 74,816  | 42,896           | 59,088  | 20,308           | 15,728 |
| Hardwood                                | 7,745        | 12,649  | 5,658            | 7,541   | 2,087            | 5,108  |
| Total                                   | 70,949       | 87,465  | 48,554           | 66,629  | 22,395           | 20,836 |
| Miscellaneous:                          |              |         |                  |         |                  |        |
| Softwood                                | 6,058        | 10,162  | 2,871            | 4,106   | 3,187            | 6,056  |
| Hardwood                                | 103          | 492     | 90               | 5       | 13               | 487    |
| Total                                   | 6,161        | 10,654  | 2,961            | 4,111   | 3,200            | 6,543  |
| All industrial:                         |              |         |                  |         |                  |        |
| Softwood                                | 116,826      | 123,826 | 90,863           | 102,042 | 25,963           | 21,784 |
| Hardwood                                | 16,352       | 28,850  | 14,155           | 23,226  | 2,197            | 5,624  |
| Total                                   | 133,178      | 152,676 | 105,018          | 125,268 | 28,160           | 27,408 |

<sup>1/</sup> 1971 roundwood figures include 134 thousand cubic feet of softwood roundwood chipped at other primary wood-using plants. 1974 roundwood figures include 3,470 thousand cubic feet of softwood roundwood chipped at other primary wood-using plants.

Table 4.--Output of industrial timber products, by source of material, year, product, and species group, Central Region

| Product and species group       | Total output |         | Roundwood output |         | Byproduct output |        |
|---------------------------------|--------------|---------|------------------|---------|------------------|--------|
|                                 | 1971         | 1974    | 1971             | 1974    | 1971             | 1974   |
| ----- Thousand cubic feet ----- |              |         |                  |         |                  |        |
| Saw logs:                       |              |         |                  |         |                  |        |
| Softwood                        | 82,882       | 80,737  | 82,841           | 80,702  | 41               | 35     |
| Hardwood                        | 25,630       | 27,419  | 25,630           | 27,326  | --               | 93     |
| Total                           | 108,512      | 108,156 | 108,471          | 108,028 | 41               | 128    |
| Veneer logs and bolts:          |              |         |                  |         |                  |        |
| Softwood                        | 13,669       | 13,973  | 13,669           | 13,973  | --               | --     |
| Hardwood                        | 3,648        | 4,304   | 3,648            | 4,304   | --               | --     |
| Total                           | 17,317       | 18,277  | 17,317           | 18,277  | --               | --     |
| Pulpwood: <sup>1/</sup>         |              |         |                  |         |                  |        |
| Softwood                        | 130,899      | 158,066 | 102,646          | 129,297 | 28,253           | 28,769 |
| Hardwood                        | 24,434       | 31,377  | 17,223           | 23,190  | 7,211            | 8,187  |
| Total                           | 155,333      | 189,443 | 119,869          | 152,487 | 35,464           | 36,956 |
| Miscellaneous:                  |              |         |                  |         |                  |        |
| Softwood                        | 5,753        | 8,300   | 1,005            | 833     | 4,748            | 7,467  |
| Hardwood                        | 2,660        | 1,750   | 1,274            | 328     | 1,386            | 1,422  |
| Total                           | 8,413        | 10,050  | 2,279            | 1,161   | 6,134            | 8,889  |
| All industrial:                 |              |         |                  |         |                  |        |
| Softwood                        | 233,203      | 261,076 | 200,161          | 224,805 | 33,042           | 36,271 |
| Hardwood                        | 56,372       | 64,850  | 47,775           | 55,148  | 8,597            | 9,702  |
| Total                           | 289,575      | 325,926 | 247,936          | 279,953 | 41,639           | 45,973 |

<sup>1/</sup> 1971 roundwood figures include 5,750 thousand cubic feet of softwood and 287 thousand cubic feet of hardwood roundwood chipped at other primary wood-using plants. 1974 roundwood figures include 4,835 thousand cubic feet of softwood and 2,145 thousand cubic feet of hardwood roundwood chipped at other primary wood-using plants.

Table 5.--Output of industrial timber products, by source of material, year, product, and species group, North Central Region

| Product and species group              | Total output |         | Roundwood output |         | Byproduct output |       |
|--|--------------|---------|------------------|---------|------------------|-------|
|  | 1971         | 1974    | 1971             | 1974    | 1971             | 1974  |
| ----- <u>Thousand cubic feet</u> ----- |              |         |                  |         |                  |       |
| Saw logs:                              |              |         |                  |         |                  |       |
| Softwood                               | 21,473       | 26,743  | 21,473           | 26,743  | --               | --    |
| Hardwood                               | 10,507       | 10,524  | 10,507           | 10,524  | --               | --    |
| Total                                  | 31,980       | 37,267  | 31,980           | 37,267  | --               | --    |
| Veneer logs and bolts:                 |              |         |                  |         |                  |       |
| Softwood                               | 1,089        | 1,121   | 1,089            | 1,121   | --               | --    |
| Hardwood                               | 1,215        | 1,315   | 1,215            | 1,315   | --               | --    |
| Total                                  | 2,304        | 2,436   | 2,304            | 2,436   | --               | --    |
| Pulpwood:                              |              |         |                  |         |                  |       |
| Softwood                               | 57,220       | 67,382  | 54,061           | 61,933  | 3,159            | 5,449 |
| Hardwood                               | 6,705        | 6,276   | 4,365            | 4,320   | 2,340            | 1,956 |
| Total                                  | 63,925       | 73,658  | 58,426           | 66,253  | 5,499            | 7,405 |
| Miscellaneous:                         |              |         |                  |         |                  |       |
| Softwood                               | 1,984        | 1,486   | 581              | 229     | 1,403            | 1,257 |
| Hardwood                               | 857          | 771     | 122              | 29      | 735              | 742   |
| Total                                  | 2,841        | 2,257   | 703              | 258     | 2,138            | 1,999 |
| All industrial:                        |              |         |                  |         |                  |       |
| Softwood                               | 81,766       | 96,732  | 77,204           | 90,026  | 4,562            | 6,706 |
| Hardwood                               | 19,284       | 18,886  | 16,209           | 16,188  | 3,075            | 2,698 |
| Total                                  | 101,050      | 115,618 | 93,413           | 106,214 | 7,637            | 9,404 |

Table 6.--Output of industrial timber products, by source of material, year, product, and species group, North Region

| Product and species group               | Total output |        | Roundwood output |        | Byproduct output |       |
|---|--------------|--------|------------------|--------|------------------|-------|
|   | 1971         | 1974   | 1971             | 1974   | 1971             | 1974  |
| - - - - - Thousand cubic feet - - - - - |              |        |                  |        |                  |       |
| Saw logs:                               |              |        |                  |        |                  |       |
| Softwood                                | 20,412       | 17,300 | 20,412           | 17,300 | --               | --    |
| Hardwood                                | 9,456        | 7,090  | 9,456            | 7,090  | --               | --    |
| Total                                   | 29,868       | 24,390 | 29,868           | 24,390 | --               | --    |
| Veneer logs and bolts:                  |              |        |                  |        |                  |       |
| Softwood                                | --           | --     | --               | --     | --               | --    |
| Hardwood                                | 163          | 306    | 163              | 306    | --               | --    |
| Total                                   | 163          | 306    | 163              | 306    | --               | --    |
| Pulpwood:                               |              |        |                  |        |                  |       |
| Softwood                                | 23,100       | 24,697 | 19,629           | 21,787 | 3,471            | 2,910 |
| Hardwood                                | 3,535        | 5,781  | 2,923            | 4,990  | 612              | 791   |
| Total                                   | 26,635       | 30,478 | 22,552           | 26,777 | 4,083            | 3,701 |
| Miscellaneous:                          |              |        |                  |        |                  |       |
| Softwood                                | 3,510        | 2,857  | 487              | 283    | 3,023            | 2,574 |
| Hardwood                                | 981          | 891    | 104              | 90     | 877              | 801   |
| Total                                   | 4,491        | 3,748  | 591              | 373    | 3,900            | 3,375 |
| All industrial:                         |              |        |                  |        |                  |       |
| Softwood                                | 47,022       | 44,854 | 40,528           | 39,370 | 6,494            | 5,484 |
| Hardwood                                | 14,135       | 14,068 | 12,646           | 12,476 | 1,489            | 1,592 |
| Total                                   | 61,157       | 58,922 | 53,174           | 51,846 | 7,983            | 7,076 |

Table 7.--Number of primary wood-using plants, by Forest Survey Region, year, and industry

| Industry                          | Forest Survey Region |      |           |      |           |      |         |      |       |      |    |    |
|-----------------------------------|----------------------|------|-----------|------|-----------|------|---------|------|-------|------|----|----|
|                                   | Total                |      | Southeast |      | Southwest |      | Central |      | North |      |    |    |
|                                   | 1971                 | 1974 | 1971      | 1974 | 1971      | 1974 | 1971    | 1974 | 1971  | 1974 |    |    |
| Sawmills                          | 301                  | 301  | 53        | 50   | 33        | 35   | 81      | 78   | 42    | 57   | 92 | 81 |
| Veneer mills                      | 23                   | 24   | 8         | 7    | 5         | 5    | 6       | 8    | 3     | 3    | 1  | 1  |
| Pulpmills                         | 15                   | 15   | 8         | 8    | 2         | 2    | 4       | 4    | --    | --   | 1  | 1  |
| Other miscellaneous <sup>1/</sup> | 29                   | 26   | 8         | 12   | 7         | 6    | 7       | 4    | 5     | 2    | 2  | 2  |
| All plants                        | 368                  | 366  | 77        | 77   | 47        | 48   | 98      | 94   | 50    | 62   | 96 | 85 |

<sup>1/</sup> Includes excelsior plants, handle plants, treating plants, etc.

Table 8.--Industrial roundwood movement,  
by year, and species group, Georgia

| Species group :            | 1971    | : | 1974    |
|----------------------------|---------|---|---------|
| <u>Thousand cubic feet</u> |         |   |         |
| <b>Softwoods:</b>          |         |   |         |
| Output                     | 682,548 |   | 712,644 |
| Retained                   | 578,369 |   | 586,975 |
| Shipped out                | 104,179 |   | 125,669 |
| Shipped in                 | 112,579 |   | 92,054  |
| Receipts                   | 690,948 |   | 679,029 |
| <b>Hardwoods:</b>          |         |   |         |
| Output                     | 119,258 |   | 139,025 |
| Retained                   | 109,131 |   | 124,928 |
| Shipped out                | 10,127  |   | 14,097  |
| Shipped in                 | 28,774  |   | 25,249  |
| Receipts                   | 137,905 |   | 150,177 |
| <b>All species:</b>        |         |   |         |
| Output                     | 801,806 |   | 851,669 |
| Retained                   | 687,500 |   | 711,903 |
| Shipped out                | 114,306 |   | 139,766 |
| Shipped in                 | 141,353 |   | 117,303 |
| Receipts                   | 828,853 |   | 829,206 |

Table 9.--Industrial roundwood movement, by Forest Survey Region, and species group, 1974

| Species group                          | Forest Survey Region |           |         |                  |        |
|--|----------------------|-----------|---------|------------------|--------|
|  | Southeast            | Southwest | Central | North<br>Central | North  |
| ----- <u>Thousand cubic feet</u> ----- |                      |           |         |                  |        |
| Softwoods:                             |                      |           |         |                  |        |
| Output                                 | 256,401              | 102,042   | 224,805 | 90,026           | 39,370 |
| Retained                               | 213,960              | 59,019    | 122,831 | 20,440           | 28,524 |
| Shipped out                            | 42,441               | 43,023    | 101,974 | 69,586           | 10,846 |
| Shipped in                             | 114,203              | 65,636    | 25,463  | 4,079            | 24,872 |
| Receipts                               | 328,163              | 124,655   | 148,294 | 24,519           | 53,396 |
| Hardwoods:                             |                      |           |         |                  |        |
| Output                                 | 31,987               | 23,226    | 55,148  | 16,188           | 12,476 |
| Retained                               | 27,808               | 15,234    | 38,343  | 9,832            | 8,760  |
| Shipped out                            | 4,179                | 7,992     | 16,805  | 6,356            | 3,716  |
| Shipped in                             | 28,802               | 4,722     | 11,974  | 1,714            | 2,988  |
| Receipts                               | 56,610               | 19,956    | 50,317  | 11,546           | 11,748 |
| All species:                           |                      |           |         |                  |        |
| Output                                 | 288,388              | 125,268   | 279,953 | 106,214          | 51,846 |
| Retained                               | 241,768              | 74,253    | 161,174 | 30,272           | 37,284 |
| Shipped out                            | 46,620               | 51,015    | 118,779 | 75,942           | 14,562 |
| Shipped in                             | 143,005              | 70,358    | 37,437  | 5,793            | 27,860 |
| Receipts                               | 384,773              | 144,611   | 198,611 | 36,065           | 65,144 |

Table 10.--Volume of unused plant residues at primary wood-using industries, by industry, species group, and type of residue, 1974

| Species group:<br>and type of<br>residue       | All industries | Lumber | Veneer<br>and<br>plywood | Other |
|--|----------------|--------|--------------------------|-------|
| - - - - - <u>Thousand cubic feet</u> - - - - - |                |        |                          |       |
| <b>Softwoods:</b>                              |                |        |                          |       |
| Coarse   | 2,320          | 2,304  | 2                        | 14    |
| Shavings                                       | 735            | 735    | --                       | --    |
| Other fine                                     | 12,061         | 11,821 | 170                      | 70    |
| Total  | 15,116         | 14,860 | 172                      | 84    |
| <b>Hardwoods:</b>                              |                |        |                          |       |
| Coarse   | 2,176          | 1,996  | 60                       | 120   |
| Shavings                                       | 342            | 342    | --                       | --    |
| Other fine                                     | 7,905          | 6,501  | 1,357                    | 47    |
| Total  | 10,423         | 8,839  | 1,417                    | 167   |
| <b>All species:</b>                            |                |        |                          |       |
| Coarse   | 4,496          | 4,300  | 62                       | 134   |
| Shavings                                       | 1,077          | 1,077  | --                       | --    |
| Other fine                                     | 19,966         | 18,322 | 1,527                    | 117   |
| Total  | 25,539         | 23,699 | 1,589                    | 251   |

Table 11.--Volume of unused plant residues, by Forest Survey Region, species group, and industry, 1974

| Species group and industry      | Forest Survey Region |           |           |         |               |       |
|---------------------------------|----------------------|-----------|-----------|---------|---------------|-------|
|                                 | Total                | Southeast | Southwest | Central | North Central | North |
| ----- Thousand cubic feet ----- |                      |           |           |         |               |       |
| Softwood:                       |                      |           |           |         |               |       |
| Lumber                          | 14,860               | 3,782     | 1,848     | 4,006   | 2,998         | 2,226 |
| Veneer and plywood              | 172                  | 30        | 138       | 4       | --            | --    |
| Other                           | 84                   | 76        | --        | 8       | --            | --    |
| Total                           | 15,116               | 3,888     | 1,986     | 4,018   | 2,998         | 2,226 |
| Hardwood:                       |                      |           |           |         |               |       |
| Lumber                          | 8,839                | 1,447     | 829       | 3,719   | 1,425         | 1,419 |
| Veneer and plywood              | 1,417                | 756       | 234       | 197     | 230           | --    |
| Other                           | 167                  | --        | --        | 167     | --            | --    |
| Total                           | 10,423               | 2,203     | 1,063     | 4,083   | 1,655         | 1,419 |
| All species:                    |                      |           |           |         |               |       |
| Lumber                          | 23,699               | 5,229     | 2,677     | 7,725   | 4,423         | 3,645 |
| Veneer and plywood              | 1,589                | 786       | 372       | 201     | 230           | --    |
| Other                           | 251                  | 76        | --        | 175     | --            | --    |
| Total                           | 25,539               | 6,091     | 3,049     | 8,101   | 4,653         | 3,645 |

Table 12.--Disposal of bark at primary wood-using industries, by species group, year, and disposition

| Disposition                     | All species |         | Softwood |         | Hardwood |       |
|---------------------------------|-------------|---------|----------|---------|----------|-------|
|                                 | 1971        | 1974    | 1971     | 1974    | 1971     | 1974  |
| ----- Thousand green tons ----- |             |         |          |         |          |       |
| Fiber products                  | 27.1        | 40.2    | 18.9     | 21.9    | 8.2      | 18.3  |
| Charcoal                        | 1.0         | 5.2     | 0.2      | 2.2     | 0.8      | 3.0   |
| Industrial fuel                 | 1,308.3     | 1,742.5 | 1,084.3  | 1,459.9 | 224.0    | 282.6 |
| Domestic fuel                   | 9.6         | 11.1    | 5.7      | 5.4     | 3.9      | 5.7   |
| Miscellaneous                   | 28.8        | 98.2    | 25.0     | 91.5    | 3.8      | 6.7   |
| Not used                        | 1,265.4     | 828.3   | 1,026.1  | 582.5   | 239.3    | 245.8 |
| Total                           | 2,640.2     | 2,725.5 | 2,160.2  | 2,163.4 | 480.0    | 562.1 |

Table 13.--Roundwood products output,<sup>1/</sup> by species group, year, and county, in Georgia

| Survey unit and county          | All species    |                | Softwood       |                | Hardwood      |               |
|---------------------------------|----------------|----------------|----------------|----------------|---------------|---------------|
|                                 | 1971           | 1974           | 1971           | 1974           | 1971          | 1974          |
| ----- Thousand cubic feet ----- |                |                |                |                |               |               |
| <b>Southeast:</b>               |                |                |                |                |               |               |
| Appling                         | 14,448         | 10,913         | 12,595         | 9,723          | 1,853         | 1,190         |
| Atkinson                        | 13,315         | 7,717          | 13,274         | 7,669          | 41            | 48            |
| Bacon                           | 6,265          | 5,400          | 6,011          | 4,794          | 254           | 606           |
| Brantley                        | 10,524         | 10,258         | 9,617          | 9,248          | 907           | 1,010         |
| Bryan                           | 8,586          | 9,733          | 7,778          | 8,681          | 808           | 1,052         |
| Bulloch                         | 9,609          | 12,691         | 9,218          | 11,760         | 391           | 931           |
| Camden                          | 10,233         | 8,119          | 9,010          | 7,005          | 1,223         | 1,114         |
| Candler                         | 2,769          | 5,256          | 2,389          | 4,780          | 380           | 476           |
| Charlton                        | 11,445         | 11,713         | 11,074         | 11,083         | 371           | 630           |
| Chatman                         | 2,193          | 3,899          | 1,913          | 3,395          | 280           | 504           |
| Clinch                          | 17,004         | 14,624         | 16,821         | 14,539         | 183           | 85            |
| Coffee                          | 14,360         | 13,617         | 13,986         | 12,328         | 374           | 1,289         |
| Dodge                           | 9,740          | 8,442          | 8,580          | 7,660          | 1,160         | 782           |
| Echols                          | 4,707          | 4,547          | 4,707          | 4,547          | --            | --            |
| Effingham                       | 8,745          | 7,608          | 7,227          | 5,778          | 1,518         | 1,830         |
| Emanuel                         | 9,885          | 8,334          | 9,113          | 6,310          | 772           | 2,024         |
| Evans                           | 3,704          | 3,096          | 3,471          | 2,701          | 233           | 395           |
| Glynn                           | 7,079          | 5,153          | 5,681          | 3,736          | 1,398         | 1,417         |
| Jeff Davis                      | 5,979          | 6,767          | 5,304          | 5,196          | 675           | 1,571         |
| Jenkins                         | 3,882          | 4,600          | 3,215          | 3,874          | 667           | 726           |
| Johnson                         | 4,470          | 4,456          | 3,508          | 3,457          | 962           | 999           |
| Laurens                         | 9,640          | 11,629         | 6,984          | 9,072          | 2,656         | 2,557         |
| Liberty                         | 12,776         | 9,232          | 9,735          | 7,163          | 3,041         | 2,069         |
| Long                            | 6,340          | 4,314          | 5,159          | 3,670          | 1,181         | 644           |
| McIntosh                        | 4,773          | 4,203          | 4,171          | 3,964          | 602           | 239           |
| Montgomery                      | 6,684          | 3,538          | 6,461          | 3,107          | 223           | 431           |
| Pierce                          | 5,481          | 4,562          | 5,323          | 4,327          | 158           | 235           |
| Screven                         | 6,739          | 7,650          | 5,016          | 6,206          | 1,723         | 1,444         |
| Tattnall                        | 7,548          | 6,159          | 7,102          | 6,016          | 446           | 143           |
| Telfair                         | 8,610          | 8,153          | 7,699          | 6,986          | 911           | 1,167         |
| Toombs                          | 5,784          | 8,942          | 5,497          | 8,034          | 287           | 908           |
| Treutlen                        | 3,491          | 4,935          | 3,163          | 4,554          | 328           | 381           |
| Ware                            | 15,653         | 16,669         | 15,580         | 16,355         | 73            | 314           |
| Wayne                           | 12,436         | 11,132         | 11,485         | 10,781         | 951           | 351           |
| Wheeler                         | 5,391          | 7,440          | 4,939          | 6,575          | 452           | 865           |
| <b>Total</b>                    | <b>290,288</b> | <b>275,501</b> | <b>262,806</b> | <b>245,074</b> | <b>27,482</b> | <b>30,427</b> |
| <b>Southwest:</b>               |                |                |                |                |               |               |
| Baker                           | 2,636          | 3,300          | 2,190          | 3,040          | 446           | 260           |
| Ben Hill                        | 6,978          | 5,818          | 6,755          | 5,136          | 223           | 682           |
| Berrien                         | 6,359          | 5,492          | 5,692          | 4,865          | 667           | 627           |
| Brooks                          | 7,657          | 8,758          | 6,279          | 5,316          | 1,378         | 3,442         |
| Colquitt                        | 9,088          | 9,769          | 8,375          | 8,532          | 713           | 1,237         |
| Cook                            | 5,545          | 4,830          | 3,818          | 4,103          | 1,727         | 727           |
| Crisp                           | 1,865          | 4,116          | 1,760          | 3,683          | 105           | 433           |
| Decatur                         | 6,074          | 8,050          | 4,911          | 6,720          | 1,163         | 1,330         |
| Dooly                           | 2,951          | 3,930          | 1,977          | 3,151          | 974           | 779           |
| Early                           | 3,381          | 5,009          | 2,296          | 3,188          | 1,085         | 1,821         |
| Grady                           | 5,557          | 6,128          | 3,818          | 4,182          | 1,739         | 1,946         |
| Irwin                           | 2,007          | 2,019          | 2,007          | 1,894          | --            | 125           |
| Lanier                          | 4,418          | 4,615          | 4,285          | 2,836          | 133           | 1,779         |
| Lowndes                         | 4,144          | 7,415          | 3,721          | 5,518          | 423           | 1,897         |
| Miller                          | 2,614          | 1,406          | 2,097          | 1,284          | 517           | 122           |
| Mitchell                        | 5,906          | 7,371          | 5,661          | 6,898          | 245           | 473           |
| Seminole                        | 2,117          | 2,067          | 1,851          | 1,748          | 266           | 319           |
| Thomas                          | 9,918          | 12,257         | 8,428          | 10,241         | 1,490         | 2,016         |
| Tift                            | 3,802          | 4,049          | 3,414          | 3,016          | 388           | 1,033         |
| Turner                          | 2,020          | 2,003          | 2,017          | 1,920          | 3             | 83            |
| Wilcox                          | 4,478          | 6,221          | 4,142          | 4,703          | 336           | 1,518         |
| Worth                           | 5,369          | 7,175          | 5,235          | 6,598          | 134           | 577           |
| <b>Total</b>                    | <b>104,884</b> | <b>121,798</b> | <b>90,729</b>  | <b>98,572</b>  | <b>14,155</b> | <b>23,226</b> |

Table 13.--Roundwood products output,<sup>1/</sup> by species group, year, and county, in Georgia (continued)

| Survey unit and county          | All species |         | Softwood |         | Hardwood |        |
|---------------------------------|-------------|---------|----------|---------|----------|--------|
|                                 | 1971        | 1974    | 1971     | 1974    | 1971     | 1974   |
| ----- Thousand cubic feet ----- |             |         |          |         |          |        |
| Central:                        |             |         |          |         |          |        |
| Baldwin                         | 4,016       | 6,775   | 3,088    | 5,772   | 928      | 1,003  |
| Bibb                            | 2,277       | 2,418   | 1,675    | 1,813   | 602      | 605    |
| Bleckley                        | 2,917       | 1,538   | 2,082    | 833     | 835      | 705    |
| Burke                           | 6,230       | 9,090   | 3,620    | 6,876   | 2,610    | 2,214  |
| Butts                           | 2,841       | 2,663   | 2,401    | 2,063   | 440      | 600    |
| Calhoun                         | 2,753       | 3,748   | 1,944    | 3,244   | 809      | 504    |
| Chattahoochee                   | 3,556       | 4,691   | 2,835    | 3,970   | 721      | 721    |
| Clay                            | 4,113       | 2,397   | 3,365    | 1,683   | 748      | 714    |
| Columbia                        | 5,073       | 5,752   | 4,276    | 4,817   | 797      | 935    |
| Crawford                        | 5,999       | 9,067   | 5,166    | 6,868   | 833      | 2,199  |
| Dougherty                       | 4,813       | 5,208   | 4,163    | 4,555   | 650      | 653    |
| Glascok                         | 1,965       | 1,739   | 1,150    | 997     | 815      | 742    |
| Greene                          | 13,482      | 8,884   | 11,318   | 7,409   | 2,164    | 1,475  |
| Hancock                         | 8,303       | 10,072  | 6,962    | 8,619   | 1,341    | 1,453  |
| Harris                          | 9,015       | 8,361   | 7,986    | 6,963   | 1,029    | 1,398  |
| Houston                         | 4,893       | 5,155   | 3,535    | 4,020   | 1,358    | 1,135  |
| Jasper                          | 6,528       | 8,791   | 5,297    | 6,567   | 1,231    | 2,224  |
| Jefferson                       | 4,940       | 3,746   | 3,624    | 2,785   | 1,316    | 961    |
| Jones                           | 7,627       | 7,662   | 6,429    | 6,745   | 1,198    | 917    |
| Lamar                           | 2,772       | 2,817   | 2,410    | 2,561   | 362      | 256    |
| Lee                             | 1,272       | 1,826   | 1,096    | 1,665   | 176      | 161    |
| Lincoln                         | 5,717       | 6,513   | 4,802    | 5,840   | 915      | 673    |
| Central:                        |             |         |          |         |          |        |
| McDuffie                        | 2,847       | 4,599   | 2,412    | 3,990   | 435      | 609    |
| Macon                           | 3,435       | 3,176   | 2,188    | 2,467   | 1,247    | 709    |
| Marion                          | 2,349       | 2,826   | 2,047    | 2,326   | 302      | 500    |
| Monroe                          | 6,591       | 10,121  | 5,298    | 7,629   | 1,293    | 2,492  |
| Morgan                          | 4,944       | 6,870   | 4,122    | 5,676   | 822      | 1,194  |
| Muscogee                        | 1,743       | 3,442   | 1,557    | 2,887   | 186      | 555    |
| Peach                           | 1,327       | 919     | 1,104    | 768     | 223      | 151    |
| Pike                            | 1,354       | 2,940   | 1,147    | 2,732   | 207      | 208    |
| Pulaski                         | 2,148       | 2,993   | 1,630    | 2,168   | 518      | 825    |
| Putnam                          | 9,241       | 11,253  | 8,110    | 10,579  | 1,131    | 674    |
| Quitman                         | 2,428       | 3,080   | 2,087    | 2,612   | 341      | 468    |
| Randolph                        | 6,974       | 8,289   | 5,686    | 6,531   | 1,288    | 1,758  |
| Richmond                        | 6,459       | 5,451   | 4,555    | 2,996   | 1,904    | 2,455  |
| Schley                          | 1,980       | 2,774   | 1,811    | 2,551   | 169      | 223    |
| Stewart                         | 10,183      | 10,728  | 9,003    | 9,331   | 1,180    | 1,397  |
| Sumter                          | 1,997       | 3,086   | 1,743    | 2,871   | 254      | 215    |
| Talbot                          | 5,840       | 8,221   | 5,126    | 6,758   | 714      | 1,463  |
| Taliaferro                      | 3,663       | 6,278   | 3,002    | 5,139   | 661      | 1,139  |
| Taylor                          | 3,265       | 2,745   | 2,373    | 2,332   | 892      | 413    |
| Terrell                         | 2,931       | 3,166   | 2,774    | 2,968   | 157      | 198    |
| Twiggs                          | 5,689       | 4,391   | 4,517    | 2,854   | 1,172    | 1,537  |
| Upson                           | 3,413       | 4,703   | 2,950    | 3,999   | 463      | 704    |
| Warren                          | 2,667       | 4,833   | 1,916    | 3,958   | 751      | 875    |
| Washington                      | 10,735      | 9,058   | 7,721    | 7,500   | 3,014    | 1,558  |
| Webster                         | 2,766       | 2,928   | 2,324    | 2,123   | 442      | 805    |
| Wilkes                          | 11,869      | 16,364  | 10,436   | 11,953  | 1,433    | 4,411  |
| Wilkinson                       | 11,959      | 8,826   | 7,548    | 5,607   | 4,411    | 3,219  |
| Total                           | 241,899     | 272,973 | 194,411  | 219,970 | 47,488   | 53,003 |

Table 13.--Roundwood products output,<sup>1/</sup> by species group, year, and county, in Georgia (continued)

| Survey unit and county          | All species    |                | Softwood       |                | Hardwood       |                |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                                 | 1971           | 1974           | 1971           | 1974           | 1971           | 1974           |
| ----- Thousand cubic feet ----- |                |                |                |                |                |                |
| <b>North Central:</b>           |                |                |                |                |                |                |
| Banks                           | 1,653          | 1,354          | 1,427          | 1,240          | 226            | 114            |
| Barrow                          | 2,665          | 2,415          | 2,098          | 2,094          | 567            | 321            |
| Carroll                         | 7,040          | 6,302          | 5,962          | 5,179          | 1,078          | 1,123          |
| Clarke                          | 933            | 1,138          | 804            | 977            | 129            | 161            |
| Clayton                         | 692            | 223            | 671            | 223            | 21             | --             |
| Cobb                            | 1,914          | 1,776          | 1,704          | 1,715          | 210            | 61             |
| Coweta                          | 6,271          | 10,288         | 4,752          | 8,449          | 1,519          | 1,839          |
| DeKalb                          | 307            | 646            | 274            | 614            | 33             | 32             |
| Douglas                         | 1,632          | 1,328          | 1,494          | 1,237          | 138            | 91             |
| Elbert                          | 5,234          | 3,965          | 4,648          | 3,132          | 586            | 833            |
| Fayette                         | 627            | 1,382          | 499            | 1,272          | 128            | 110            |
| Forsyth                         | 2,052          | 1,749          | 1,336          | 1,354          | 716            | 395            |
| Franklin                        | 2,211          | 3,878          | 1,575          | 3,007          | 636            | 871            |
| Fulton                          | 3,004          | 3,633          | 2,688          | 2,959          | 316            | 674            |
| Gwinnett                        | 2,600          | 1,979          | 2,341          | 1,711          | 259            | 268            |
| Hall                            | 1,912          | 3,530          | 1,785          | 3,134          | 127            | 396            |
| Haralson                        | 3,931          | 3,271          | 3,064          | 2,599          | 867            | 672            |
| Hart                            | 638            | 803            | 549            | 651            | 89             | 152            |
| Heard                           | 3,650          | 4,103          | 3,078          | 3,474          | 572            | 629            |
| Henry                           | 2,785          | 2,648          | 2,385          | 2,051          | 400            | 597            |
| Jackson                         | 2,291          | 3,796          | 1,976          | 3,368          | 315            | 428            |
| Madison                         | 1,414          | 7,010          | 1,255          | 6,551          | 159            | 459            |
| Meriwether                      | 8,084          | 7,813          | 6,174          | 7,067          | 1,910          | 746            |
| Newton                          | 2,961          | 2,596          | 2,433          | 2,146          | 528            | 450            |
| Oconee                          | 3,518          | 2,777          | 2,994          | 2,433          | 524            | 344            |
| Oglethorpe                      | 6,608          | 7,175          | 5,613          | 5,681          | 995            | 1,494          |
| Paulding                        | 3,338          | 2,993          | 2,735          | 2,490          | 603            | 503            |
| Polk                            | 2,871          | 2,544          | 2,252          | 1,790          | 619            | 754            |
| Rockdale                        | 209            | 154            | 170            | 140            | 39             | 14             |
| Spalding                        | 916            | 1,281          | 861            | 1,147          | 55             | 134            |
| Troup                           | 7,007          | 10,050         | 5,610          | 8,737          | 1,397          | 1,313          |
| Walton                          | 2,445          | 1,614          | 1,997          | 1,404          | 448            | 210            |
| <b>Total</b>                    | <b>93,413</b>  | <b>106,214</b> | <b>77,204</b>  | <b>90,026</b>  | <b>16,209</b>  | <b>16,188</b>  |
| <b>North:</b>                   |                |                |                |                |                |                |
| Bartow                          | 3,426          | 3,021          | 3,121          | 2,788          | 305            | 233            |
| Catoosa                         | 518            | 466            | 373            | 366            | 145            | 100            |
| Chattooga                       | 3,735          | 2,568          | 3,119          | 1,716          | 616            | 852            |
| Cherokee                        | 6,965          | 6,160          | 6,296          | 5,055          | 669            | 1,105          |
| Dade                            | 1,070          | 752            | 627            | 458            | 443            | 294            |
| Dawson                          | 913            | 2,288          | 769            | 2,092          | 144            | 196            |
| Fannin                          | 3,979          | 2,741          | 1,729          | 1,681          | 2,250          | 1,060          |
| Floyd                           | 3,347          | 2,897          | 2,676          | 2,145          | 671            | 752            |
| Gilmer                          | 3,867          | 2,854          | 2,565          | 2,148          | 1,302          | 706            |
| Gordon                          | 2,633          | 4,533          | 2,304          | 4,000          | 329            | 533            |
| Habersham                       | 3,985          | 2,418          | 2,979          | 1,950          | 1,006          | 468            |
| Lumpkin                         | 1,755          | 1,173          | 1,419          | 816            | 336            | 357            |
| Murray                          | 3,055          | 3,044          | 2,629          | 2,638          | 426            | 406            |
| Pickens                         | 1,786          | 1,646          | 1,493          | 1,477          | 293            | 169            |
| Rabun                           | 2,992          | 1,575          | 2,032          | 750            | 960            | 825            |
| Stephens                        | 2,237          | 2,559          | 1,609          | 1,652          | 628            | 907            |
| Towns                           | 369            | 423            | 112            | 297            | 257            | 126            |
| Union                           | 1,172          | 2,691          | 592            | 1,340          | 580            | 1,351          |
| Walker                          | 2,499          | 4,848          | 1,811          | 3,462          | 688            | 1,386          |
| White                           | 1,073          | 723            | 706            | 484            | 367            | 239            |
| Whitefield                      | 1,798          | 2,466          | 1,567          | 2,055          | 231            | 411            |
| <b>Total</b>                    | <b>53,174</b>  | <b>51,846</b>  | <b>40,528</b>  | <b>39,370</b>  | <b>12,646</b>  | <b>12,476</b>  |
| <b>All counties</b>             | <b>783,658</b> | <b>828,332</b> | <b>665,678</b> | <b>693,012</b> | <b>117,980</b> | <b>135,320</b> |

<sup>1/</sup> Excludes round pulpwood chipped at other primary wood-using industries.

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