

Forest Service

General Technical Report WO-21



Timber in the United States Economy 1963, 1967, and 1972







Timber in the United States Economy 1963, 1967, and 1972

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Preface

This report presents estimates of employment and value added in timber-based activities in the United States in 1972, 1967, 1963. Also included are data on the volume of stumpage cut, the value of logs and related products harvested, the volumes of selected timber products produced, the value of shipments from timber-based primary and secondary manufacturing industries, the value of construction, freight revenues from shipments of timber products, and wholesale and retail sales of timber products.

In basic concept, organization, and most computational procedures, this study parallels an earlier one, *The Economic Importance of Timber in the United States*, published in 1963. In most respects, the data presented are comparable with those from the 1963 study. However, in some instances, lack of new information, revisions in industry definitions, or other modifications in basic data sources have necessitated slight changes in organization or compilation procedures. Such changes, however, do not significantly affect comparability between the two studies.

The information in *Timber in the United States Economy*, 1963, 1967, and 1972 is a historical record of timber's contribution to the Nation's economy. When

used in conjunction with *The Economic Importance of Timber in the United States, 1954 and 1958,* it permits complete analysis covering two decades with reference points at approximately 5-year intervals.

The estimates in this report are based on data in the 1960 and 1970 Censuses of Population; the 1963, 1967, and 1972 Censuses of Business; and various other studies and surveys conducted by the Forest Service, other government agencies, and individuals. Detailed information on sources and procedures used in computing and compiling the information presented in the report is given in the footnotes to the tables and in the appendixes.

Many people have provided assistance in the planning and preparation of this report. Special acknowledgment is given to Dwight Hair, Leader of the Demand, Price, and Trade Analysis Group, Forest Resources Economics Research Staff. Keith Blatner, William Brumm, Pat Dubose, Isabel Fisk, Timothy Frink, Christine Latonich, John Maine, and Douglas Smith assisted in collecting and compiling information for this study while temporary employees of the Forest Service.

Contents

	Page
INTRODUCTION	1
HIGHLIGHTS	4
TIMBER MANAGEMENT	6
Timber harvest about 11.9 billion cubic feet in 1972 Value of stumpage cut in 1972 almost \$2.9 billion Employment in timber management activities 117,200 in 1972 South first in timber management employment	6 7
HARVESTING	9
Saw logs the most important timber product harvested Total value of timber products harvested in 1972 some \$6.4 billion Value added in timber harvesting \$3.1 billion in 1972 Employment in harvesting 190,400 in 1972 Over half of the 1972 harvesting employment in the South	9 10 10 10
PRIMARY MANUFACTURING	12
Lumber, plywood, woodpulp, and paper and board the most important primary manufacturing products	
\$23 billion in 1972	12
Value added attributed to timber \$8.8 billion	
highest for pulp, paper, and paperboard mills	
426,550 in 1972	
SECONDARY MANUFACTURING	18
Shipments from selected secondary manufacturing industries in 1972 twice those in 1963	18
\$34.0 billion in 1972	18 18 18
Employment in selected secondary manufacturing industries 2.7 million in 1972	19
Employment attributed to timber in secondary manufacturing industries 900,400 in 1972	20
Average value added per employee highest in the paper and paperboard products industry	20

Contents

	Page
CONSTRUCTION Value of construction an estimated \$159 billion in 1972 Value added attributed to timber in construction \$11.9 billion	22 22
in 1972	22
to timber	22
TRANSPORTATION AND MARKETING	24
Value added in transportation and marketing about \$194 billion in 1972	24
Value added attributed to timber in transportation and marketing \$9.3 billion in 1972	24
Employment attributed to timber in transportation and marketing 835,150 in 1972	24
Average value added per employee highest in railroad transportation, lowest in retail trade	25
CONCLUSION	26
About 4.1 percent of the Nation's GNP from timber-based economic activities One of every 25 workers employed in timber-based economic activity	26 27
APPENDIX A. TABLES	28
APPENDIX B. INDUSTRY DEFINITIONS	78
APPENDIX C. SELECTED REFERENCES	85

List of Tables

Table		Page
1.	Estimated value of product or service, total value added and employment, and value added and employment attributed to timber in timber-based economic activities in the United States, 1972, 1967, and 1963	
A-1.	Estimated volume and value of stumpage cut, value added, and value added attributed to timber in timber management in the Unite States, by region and State, 1972, 1967, and 1963	
A-2.	Estimated employment in timber management in the United States, by region and State, 1972, 1967, and 1963	. 30
A-3.	Estimated volume of round timber products harvested in the United States, by major product, region and State, 1972, 1967, and 1963	
A-4.	Estimated value of timber products harvested in the United States, by major product, region and State, 1972, 1967, and 1963	. 33
A-5.	Estimated value of timber products harvested, value added, and value added attributed to timber in harvesting in the United States, by region and State, 1972, 1967, and 1963	. 35
A-6.	Estimated employment in timber harvesting in the United States by major product and region, 1972, 1967, and 1963	. 36
A-7.	Estimated employment in timber harvesting in the United States, by region and State, 1972, 1967, and 1963	. 38
A-8.	Estimated production of lumber in the United States, by major species group and region, 1963-72	. 39
A-9.	Estimated production of plywood in the United States, by major species group and region, 1963-72	. 40
A- 10.	Estimated production of woodpulp in the United States, by region, 1963-72	. 41
A-11.	Estimated value of shipments from primary manufacturing industrie in the United States, by industry and region, 1972, 1967, and 1963.	

1 abie		Page
A-12.	Estimated value of shipments from primary manufacturing industries in the United States, by region and State, 1972, 1967, and 1963	
A-13.	Estimated value added in primary manufacturing industries in the United States, by industry and region, 1972, 1967, and 1963	44
A-14.	Estimated value added in primary manufacturing industries in the United States, by region and State, 1972, 1967, and 1963	45
A-15.	Estimated value added attributed to timber in primary manufacturing industries in the United States, by industry and region, 1972, 1967, and 1963	46
A-16.	Estimated value added attributed to timber in primary manufacturing industries in the United States, by region and State, 1972, 1967, and 1963	47
A-17.	Estimated employment in primary manufacturing industries in the United States, by industry and region, 1972, 1967, and 1963	48
A-18.	Estimated employment in primary manufacturing industries in the United States, by region and State 1972, 1967, and 1963	49
A-19.	Estimated employment attributed to timber in primary manufacturing industries in the United States, by industry and region, 1972, 1967, and 1963	50
A-20.	Estimated employment attributed to timber in primary manufacturing industries in the United States, by region and State, 1972, 1967, and 1963	51
A-21.	Estimated value of shipments from selected secondary manufacturing industries in the United States, by industry and region, 1972, 1967, and 1963	
A-22.	Estimated value of shipments from selected secondary manufacturing industries in the United States, by region and State, 1972, 1967, and 1963	
A-23.	Estimated value added in selected secondary manufacturing industries in the United States, by industry and region, 1972, 1967, and 1963	54

Table		Page
A-24.	Estimated value added in selected secondary manufacturing industries in the United States, by region and State, 1972, 1967, and 1963	. 55
A-25.	Estimated value added attributed to timber in secondary manufacturing industries in the United States, by industry and region, 1972, 1967, and 1963	
A-26.	Estimated value added attributed to timber in secondary manufacturing industries in the United States, by region and State, 1972, 1967, and 1963	
A-27.	Estimated employment in selected secondary manufacturing industries in the United States, by industry and region, 1972, 1967, and 1963	. 58
A-28.	Estimated employment in selected secondary manufacturing industries in the United States, by region and State, 1972, 1967, and 1963	. 59
A-29.	Estimated employment attributed to timber in secondary manufacturing industries in the United States, by industry and region, 1972, 1967, and 1963	. 60
A-30.	Estimated employment attributed to timber in secondary manufacturing industries in the United States, by region and State, 1972, 1967, and 1963	. 61
A-31.	Value of new construction put in place in the United States, by type, 1963-72	
A-32.	Housing starts in the United States, by region, 1963-72	. 63
A-33.	Estimated value added and value added attributed to timber in construction in the United States, by region and State, 1972, 1967, and 1963	. 64
A-34.	Estimated employment and employment attributed to timber in construction in the United States, by region and State, 1972, 1967, and 1963	. 65
A-35.	Estimated value added and value added attributed to timber in transportation and marketing in the United States, by region and	. 66
	State, 1972, 1967, and 1963	. 00

Table	r	-age
A-36.	Estimated value added and value added attributed to timber in transportation in the United States, by industry and region, 1972, 1967, 1963	68
A-37.	Estimated value added and value added attributed to timber in marketing in the United States, by industry and region, 1972, 1967, and 1963	69
A-38.	Estimated employment and employment attributed to timber in transportation and marketing in the United States, by region and State, 1972, 1967, and 1963	70
A-39.	Estimated employment and employment attributed to timber in transportation in the United States, by industry and region, 1972, 1967, and 1963	72
A-40.	Estimated employment and employment attributed to timber in marketing in the United States, by industry and region, 1972, 1967, and 1963	73
A-41.	Estimated value added in timber-based economic activities in the United States, by industry and region, 1972, 1967, and 1963	74
A-42.	Estimated value added in timber-based economic activities in the United States, by region and State, 1972, 1967, and 1963	75
A-43.	Estimated employment in timber-based economic activities in the United States, by industry and region, 1972, 1967, and 1963	76
A-44.	Estimated employment in timber-based economic activities in the United States, by region and State, 1972, 1967, and 1963	77
B-1.	Types of firms included in the major primary and secondary industries, 1972, 1967, and 1963	84

Introduction

Timber is only one of the important products and services that the Nation derives from its forests. Forests also provide such products as minerals, wildlife, fish, water, and forage, and such diverse services as outdoor recreation opportunities and wilderness experiences. Although all of these various products and services are vital to the quality of life and national well-being, timber is the major consumable product of the forest and the primary source of forest revenues. It is also one of the Nation's most important industrial raw materials, manufactured into and consumed in many forms for many purposes ranging from housing, furniture, and toys to paper, Christmas trees, and fuelwood.

Because of its widespread use, timber is an important contributor to the U.S. economy. In 1958, about 5.6 percent, or about \$1 of every \$18, of the Nation's gross national product (GNP)—the value at current market prices of all goods and services produced by the Nation's economy—originated in some kind of timber-based economic activity. Employment attributed to timber amounted to the equivalent of 3.3 million people or about 1 out of every 20 persons employed.

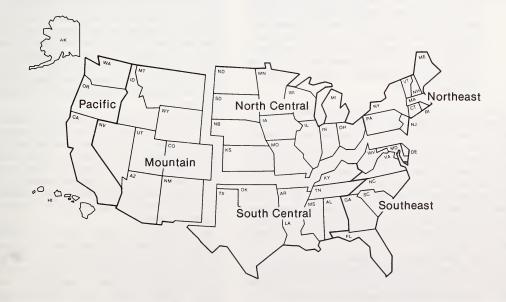
Since the 1950's, there have been many changes in the management, harvest, manufacture, distribution, and use of timber and its products. Productivity has im-

proved in all phases of the timber-based economy for which data are available, new products have been developed, the relative importance of the older products has shifted, industrial production processes have been modified, methods and means of transportation have been altered, relative price relationships between timber and nontimber products have changed, and production and consumption of nearly all timber products have increased. Because of these various factors, timber's role in the Nation's economy has changed. This study was designed to measure this change by estimating timber's contribution to national, regional, and State economic activity in 1963, 1967, and 1972. The regions used in the study are the same as those used for most Bureau of the Census Surveys and are shown in figure 1.

Gross national product and total national employment are two of the most widely accepted measures of national economic activity. Both of these national measures are the sums of the contributions of the various industries and other economic enterprises across the Nation. As a consequence, the amounts of GNP and employment originating in timber-based economic activities should provide a meaningful estimate of the total economic importance of timber.

Figure 1

Study Regions



For purposes of this study, and to facilitate comparisons with earlier studies, timber-based economic activities have been categorized as follows:

- Timber management.—Activities involved in improving, protecting, and otherwise managing forest lands for the production of timber and related products.
- 2. *Harvesting*.—Activities involved in harvesting and transporting logs and related products from forests to local points of delivery.
- 3. Primary manufacturing.—Activities involved in the processing of logs and related products into lumber, veneer, plywood, pulp and paper, turpentine, rosin, and other products.
- Secondary manufacturing.—Activities involved in the remanufacture of lumber, plywood, paper, and other products into finished goods such as furniture, toys, wearing apparel, and containers.
- Construction.—Activities involved in the fabrication of lumber, plywood, and woodbased building board into houses, nonresidential buildings, and other fixed structures.
- 6. Transportation and marketing.—Activities involved in the transportation of logs and related products from local delivery points to manufacturing plants or other consumers, transportation of primary and secondary products from points of manufacture to final consumers, and the marketing of these products through wholesale and retail channels.

In order to estimate the contribution of each of these activities to total GNP, the economic concept of value added was used. Value added is defined as the difference between the value of goods produced by an enterprise and the costs of materials and supplies that are used in producing them. It represents the amount available for wages and salaries of workers, interest, rent, profits, taxes, dividends, and depreciation expenses. The sum of the values added by all of the enterprises in any particular sector of the economy is equal to that sector's contribution to GNP, the sum of values added in all sectors being equal to total GNP.

In timber management and harvesting, as defined in this report, all of the values added and employment were considered to be timber based and thus were attributed to timber. In those enterprises engaged in manufacturing, construction, transportation, and trade, where both timber- and nontimber-based materials were used or handled, only a portion of the total value added and employment were attributed to timber. For these enterprises, estimates of total value added and employment and of value added and employment attributed to timber are presented. The sum of the values added and employment attributed to timber is considered to represent that part of the GNP and national employment originating in timber-based economic activities.

As shown in the table footnotes, data on value added and employment for the manufacturing industries were derived from the 1963, 1967, and 1972 Censuses of Manufactures. For these industries, it was assumed that estimates of value added and employment attributed to timber could be derived by using the ratios between the cost of timber products as a raw material and the total cost of all raw materials that were incorporated into the final product. For example, in the wood household furniture industry—where lumber, plywood, particleboard, veneer, and other wood-based products composed about 60 percent of the total cost of materials used in 1972—60 percent of the total value added and employment was attributed to timber. The remaining 40 percent was attributed to glass, plastics, metals, textiles, and other nonwood materials used in making the final products. In contrast, only about 5 percent of the value added and employment in metal household furniture was attributed to timber and 95 percent to other materials.

In some secondary manufacturing industries, allowances were made for nontimber raw materials used in earlier processing stages. For example, only 85 percent of the cost of the paper and paperboard consumed was used in the allocation of value added and employment. The remaining 15 percent of the cost of the paper and board input was considered to be allocatable to straw, cotton, bagasse, clay, or other nontimber raw materials used in paper and paperboard manufacture in the earlier processing stages.

In some manufacturing industries, detailed information on value of materials consumed was not available. In those cases, estimates of value added and employment attributed to timber were based on value or quantity of goods produced. For example, in the women's and misses' dresses industry, where an estimated 15 percent of the dresses produced were chiefly from rayon or acetate, 15 percent of the value added and employment were attributed to timber.

The estimates of value added and employment attributed to timber were computed for all primary and secondary manufacturing industries where timber products represented more than 2.5 percent of the total cost of materials used or handled. In numerous other manufacturing industries, where cost of timber products consumed was less than 2.5 percent, no separate industry

estimates of value added or employment were computed, nor was an attempt made to show total value of product shipments. However, estimates of the aggregate value added and employment attributed to timber in such industries were made. These were based on estimated volumes of timber-based materials consumed in these industries and on the ratios of value added and employment attributed to timber per unit of wood consumed in those secondary manufacturing industries in which timber composed more than 2.5 percent of materials cost.

Estimates of value added and employment attributed to timber in construction were derived by multiplying estimates of total value added and employment by the ratios of cost of timber products construction materials to cost of total materials by type of construction. For the transportation and trade sectors, estimates of value added and employment attributed to timber were derived by multiplying estimates of total value added and employment by the ratio of freight revenue from timber products and total freight revenue, and sales of timber products and total sales, respectively.

Although this study measures some of the same factors (value added and employment) measured in input-output studies and used in the construction of input-output tables, it is not an input-output study. As a consequence, no interindustry transactions matrix has been constructed and it is not possible to measure, for example, the effects on the timber-based sectors of a change in final demand through the use of multiplier analysis. In addition, interstate, interregional, and international flows of mate-

rials between sectors have not been estimated. Thus, although the statement can be correctly made that for every dollar of stumpage cut in a State, or region, an additional X dollars of value is added in other timber-based economic activities, it should not be implied that the additional value added has been generated by timber from that State or region.

The data used in this study have been derived from a great number of diverse sources. In some cases, it was necessary to make estimates for States based on regional averages, or for regions based on national data. Consequently, the more aggregative data are likely to be the most reliable. In others, such as for management and harvesting, the Standard Industrial Classification scheme for establishments was departed from in favor of a more activity-oriented approach. This required modifications in the primary manufacturing data derived from the Censuses of Manufactures, partly on a judgmental basis, as discussed in the primary manufacturing section. It was also necessary, for some items, to make estimates based on trends when data for 1963, 1967, or 1972 were not available. Finally, because the Nation's economic system is dynamic and changes from year-to-year, some apparent trends shown by the data may be the result of temporary changes in the overall economy rather than structural changes in the timber economy. Despite these limitations, it is believed that the estimates presented in the report will provide a more complete understanding of the importance of timber and timber-based activities in the Nation's economy.

Highlights

The estimated stumpage value of the timber cut in the United States in 1972 was about \$2.9 billion (table 1), more than double the estimated \$1.3 billion harvest in 1963. The timber products harvested from this stumpage, along with related products such as Christmas trees and pine gum, were valued at \$6.4 billion. In total, about 307,000 were employed in timber management and harvesting in 1972.

The net contribution to the GNP of the enterprises included in this study is shown in terms of value added—the difference between the costs of goods purchased by an enterprise and value of products sold. All of the values added and employment in timber management and in harvesting were considered to be timber-based and thus were attributed to timber. However, in those enterprises in manufacturing, construction, transportation, and trade, where both timber and nontimber materials were used or handled, only a part of the total value added and employment originated in timber-based activities and was attributed to timber.

The value of shipments from primary manufacturing industries (sawmills and planing mills; veneer and plywood plants; pulp, paper and paperboard mills; and other primary manufacturing plants such as cooperage-stock mills and particleboard plants) amounted to \$23 billion in 1972. Value added in primary manufacturing amounted to \$10.1 billion and that attributed to timber to \$8.8 billion. Total employment in primary manufacturing was 488,000. Of that total, 427,000 was attributed to timber.

Shipments from selected secondary manufacturing industries (paper and paperboard products, furniture, millwork and prefabricated wood products, and wooden containers industries) totaled \$35.5 billion. The value added attributed to timber in these industries amounted to \$12.5 billion in 1972. Employment attributed to timber totaled 900,000.

In construction, the total value of products produced (as measured by construction expenditures) was about \$159 billion. Total value added amounted to \$79.6 billion and that attributed to timber \$11.9 billion. Employment in construction was an estimated 5.3 million, with some 795.000 attributed to timber.

The total value added in transportation and marketing was an estimated \$194.2 billion. About \$9.3 billion of this was attributed to timber. Total employment was 18.7 million, that portion attributed to timber about 835,000.

Overall, the value added in all types of timber-based economic activities was almost \$48.5 billion in 1972, or about 4.1 percent of the Nation's GNP. Employment attributed to timber in 1972 was about 3.3 million, or about 4.0 percent of all civilian employment in the United States. In 1963, about 4.4 percent of the GNP and 4.5 percent of total employment were estimated to be timber-based.

Table 1.—Estimated value of product or service, total value added and employment, and value added and employment attributed to timber in timber-based economic activities in the United States, 1972, 1967, and 1963

			1972					1961					1963		
Economic activity	Value of	Value	Value added	Emplo	Employment	Value of	Value	Value added	Emplo	Employment	Value of	Value	Value added	Emplo	Employment
	or service'	Total	Attributed to timber	Total	Attributed to timber	product or service'	Total	Attributed to timber	Total	Attributed to timber	or service	Total	Attributed to timber	Total	Attributed to timber
	Million	Million dollars	Million dollars	Thousand	Thousand	Million dollars	Million dollars	Million dollars	Thousand	Thousand	Million	Million	Million	Thousand	Thousand
Timber management	2,864	2,864	2,864	117	117	1,470	1,470	1,470	801	108	1,336	1,336	1,336	96	66
Harvesting	6,360	3,065	3,065	190	190	3,540	1,762	1,762	236	236	3,220	1,533	1,533	772	772
Primary manufacturing: Sawmills and planning mills Veneer and plywood plants	7,575	3,029 1,238	2,876	184	171	4,177	1,526	1,449	981 70	178	3,748	1,320	1,254	210	198
Pulp, paper, and paperboard mills All other	11,705	5,417	4,583	218	184	8,823	4,341	3,454	230	184	7,031	3,459	2,932	216	182
Total	23,018	10,069	762,8	488	427	15,021	999'9	5,629	502	438	12,428	5,450	4,794	502	450
Secondary manufacturing: Millwork and prefabricated wood products Wooden containers Furniture Paper and paperboard products Fibers, plastics, and textiles All other	8,085 774 10,111 16,553	3,127 359 5,395 7,605 17,513	1,951 324 1,820 5,063 2,629 718	219 37 423 413 1,652	137 33 151 278 249 52	3,291 530 6,880 12,147	1,245 239 3,658 5,374 15,403	779 197 1,375 3,626 2,189 600	125 31 387 405 1,788	78 26 26 154 276 254 63	2,387 402 5,295 9,326 —	913 174 2,746 3,903 11,519	599 146 1,024 2,698 1,762 409	107 31 346 368 1,649	7.1 2.6 13.7 2.55 2.49 5.2
Total	1	1	12,504	1	006	1	1	8,766	ı	851	ı	1	6,639	1	190
Construction	159,000	109,67	11,947	5,278	795	102,400	49,970	6,733	4,532	929	85,300	41,139	6,237	4,351	749
Transportation and marketing: Transportation Wholesale trade Retail trade	684,300 470,800	32,070 70,466 91,635	2,792 2,997 3,561	1,899 4,310 12,498	165 181 489	459,500, 310,200	21,233 44,037 61,624	1,835 1,761 2,813	1,849 3,641 11,005	177 144 514	358,400 244,200	17,063 34,074 45,811	1,837 1,573 2,130	1,851 3,227 9,956	190 146 464
Total	1	194,171	9,287	18,707	835	_	126,894	6,409	16,495	835	-	96,948	5,540	15,034	008
Total, All types	ı	ı	48,464	1	3,265	1	ı	30,768	ı	3,024	ı	1	26,079	1	3,058

' Value of product or service: timber management—value of stumpage cut; harvesting—value of timber products harvested; primary and secondary manufacturing industries—value of shipments; construction—total construction value including new and estimated maintenance and repair, wholesale and retail trade—total sales.

2 Not available.

Timber Management

For purposes of this study, timber management is defined as the process of improving, protecting, and otherwise managing forest lands for the production of timber and related products. It includes such activities as timber stand improvement; tree planting; protection of forests from fire, insects, and other destructive agents; timber sales activities; and education, consultation, planning, and research related to timber management and timber products.

Timber management activities have grown rapidly during the past few decades as public resource agencies and timber industries have expanded and intensified their programs. In addition, through various public and private educational and technical assistance programs, nearly all landowners have been afforded the opportunity to manage their timber resources more effectively. Moreover, nearly all U.S. commercial timberland is now protected against wildfires by some type of organized fire control program. As a result of these various measures, most of the timber currently harvested in the United States represents to some degree the product of management.

Timber harvest about 11.9 billion cubic feet in 1972

In 1972, some 11.9 billion cubic feet of timber was harvested from U.S. forests (table A-1, fig. 2). This represented an increase of about 12 percent from production in 1963, and 7 percent more than in 1967.

About 47 percent of the total cut (5.6 billion cubic feet) came from forests in the South, 40 percent (4.7 billion cubic feet) from the West, and 13 percent (1.5 billion cubic feet) from the North. For the South, the cut in 1972 represented a large increase since 1963, both in volume and proportion of the U.S. total. The volume cut rose nearly 1.2 billion cubic feet, and the proportion of total increased by some 5 percent. The volume harvested in the West also increased, rising almost 0.4 billion cubic feet. However, the amount cut in 1972 represented a somewhat smaller percentage of the U.S. total than did the 1963 harvest. The North showed a decline in both volume and proportion of total cut.

Oregon topped all the other States in total volume cut in 1972, followed closely by Washington, also in the Pacific region. These two States held the same relative positions in 1963 as well. California was the third largest producer in both years. The volume of timber cut in Alabama was largest for any State outside the Pacific Region in 1972. The Georgia harvest was next largest in the South. This was a reversal of the situation in 1963 when Georgia led the South and Alabama was second. Among the Northern States, the largest volume was cut in Maine in both 1972 and 1963.

The volume of, regional distribution of, and trends in timber harvests are due to a number of complex interacting demand and supply factors. For example, demand for hardwood timber, over half of which was growing in northern forests in the late 1960's, has declined somewhat over the past three decades. Conversely, markets for softwood timber, largely a product of western and southern forests, have increased. Timber size, timber quality, ownership patterns, and industry and market locations have also been important. Continued shifts can be expected as the relative importance of these various factors change.

Value of stumpage cut in 1972 almost \$2.9 billion

The stumpage value of the timber cut from U.S. forests in 1972 is estimated at about \$2.9 billion—more than double the value in 1963 and 95 percent above 1967 (table A-1, fig. 2). This sharp increase in total value was the result of not only the rise in volume harvested but also an even larger jump in average value. As shown in the tabulation below, average value per hundred cubic feet for all stumpage cut was about \$24.10 in 1972, more than 90 percent above the 1963 average.

Region		erage value tumpage cu	
	1972	1967	1963
	(dollar	s per 100 cubi	c feet)
North	11.72	8.14	7.52
South	17.07	10.48	9.33
West	36.48	18.49	18.05
United States	24.10	13.24	12.64

Although the total value of stumpage cut increased in the North, South, and West between 1963 and 1972, the percentage contribution of each to the national total changed markedly. For example, the West, which accounted for about 51 percent of the total in 1963, jumped to over 60 percent in 1972. In contrast, the South dropped from 35 to 31 percent, despite large increases in both volume and value. The North experienced a decline to 7 percent. These changes in relative share are due to the various factors outlined above and to the differences in timber species and quality between the regions. Much of the timber harvested in the Pacific Coast States was old-growth softwood sawtimber, high in demand for manufacture into plywood and lumber, principally for housing and other construction purposes. On the other hand, much of the timber cut in the East was from relatively young forests and was, with some exceptions, of a

somewhat smaller size and lower quality. As a result of these factors, average stumpage price in the West doubled between 1963 and 1972, southern prices increased about 83 percent, and prices in the North rose 56 percent (see tabulation above). Most of the rise in all regions came between 1967 and 1972.

In this study, it has been assumed that the value of stumpage cut is the same as the total value added and the value added attributed to timber management activities. There are undoubtedly some costs for intermediate products used in timber management, such as supplies used in planting and fire control that conceptually should be deducted. However, much of the activity involved is labor intensive, and the data available indicate that the intermediate product costs are relatively small in comparison with the value of stumpage cut. Consequently, no deductions were made.¹

Employment in timber management activities 117,200 in 1972

The equivalent of about 117,200 people is estimated to have been employed in timber management activities in 1972 (table A-2). This total includes estimates of the

' Hair, Dwight. The economic importance of timber in the United States. U.S. Dep. Agric. For. Serv. Misc. Publ. 941, 91 p. 1963.

full-time equivalent for part-time employees and timberland owners. Although no exact number is available, it is estimated that about 20,000, or 17 percent of the total, were professional foresters. The remaining employment, including that of forest owners, involved a variety of tasks such as firefighting, tree planting, and planning sales and other management activities.

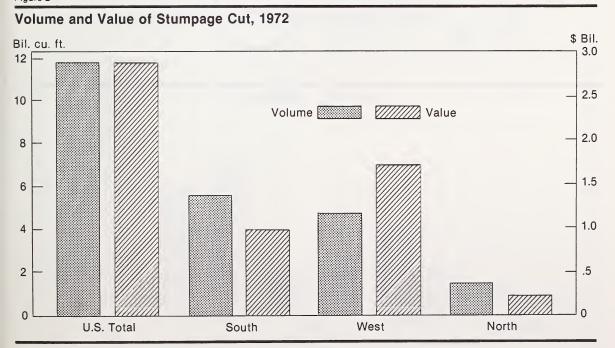
Employment in timber management is estimated to have increased about 24 percent—the equivalent of 22,500 workers—between 1963 and 1972. The largest part of this rise, about 13,000, came between 1963 and 1967, and involved increases in both government and private employment. Between 1967 and 1972, some slowing occurred, particularly in Federal employment.

In all 3 study years, about 60 percent of the total employment is estimated to have been in or funded by Federal, State, and local government agencies and about 13 percent in forest products industries.

South first in timber management employment

In 1972, as well as 1963 and 1967, about a fourth of the total employment was in the North, a third in the West, and the remaining two-fifths in the South (fig. 3). Employment by the Federal government was highest in the West and timber-owner employment highest in the East, because of existing land-ownership patterns.

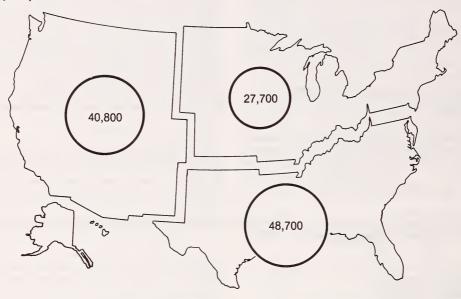
Figure 2



In so far as possible, estimates of employment in timber management were based only on those involved in activities directly related to the growing of trees for timber. However, timber management activities include many functions other than those directly related to the production of timber and to timber sales. The data presented here undoubtedly include some employment that might better be attributed to wildlife, water, range, or some other forestry activity, related but not directly attributable to timber production. As in the case of stumpage, all of the employment in timber management activities is attributed to timber.

Figure 3

Employment in Timber Management, 1972 (Total 117,200)



Harvesting

In this study, harvesting includes felling trees, cutting them into logs, cutting or collecting such miscellaneous timber products as Christmas trees and pine gum, and transporting these products to local delivery points such as rail yards, barge landings, and processing points.

Saw logs the most important product harvested

In 1972, about 5.9 billion cubic feet of saw logs, 3.6 billion cubic feet of pulpwood, 1.4 billion cubic feet of veneer logs, and 0.95 billion cubic feet of other round timber products such as cooperage logs, poles, piling, fuelwood, and fence posts were harvested from U.S. forests (table A-3, fig. 4). This represented an increase since 1963 of about 9 percent for saw logs, 52 percent for veneer logs, and 36 percent for pulpwood. Only the harvest of "other" timber products dropped during the period, mainly because of the continued decline in fuelwood output.

The South accounted for about 47 percent of the total roundwood harvest in 1972. This was up sharply from 42 percent in 1963 and was due to large increases in pulpwood and veneer log output and to a somewhat smaller rise in saw log production. Much of the over fourfold increase in veneer log production resulted from the rapid development of the southern pine plywood industry.

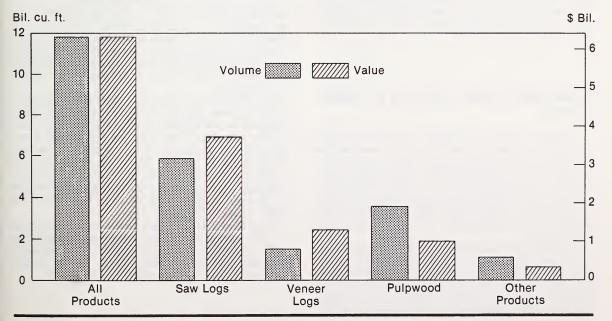
About 72 percent of the total pulpwood harvest came from Southern forests in 1972, a somewhat larger proportion than in 1963. Over half of the "other" roundwood products also was cut in the South.

About 4.7 billion cubic feet of roundwood products was harvested in the West in 1972, some 40 percent of the national total and slightly below the 41 percent produced in 1963. The West produced the largest volume of saw logs in all 3 study years. Most of these were harvested in the Pacific Coast States of Oregon, Washington, and California. Output in the North dropped about 12 percent between 1963 and 1972, primarily as a result of declines in the harvests of veneer logs and "other" products. In total, about 13 percent of the Nation's roundwood output came from the North in 1972, somewhat less than the 16 percent produced in 1963.

Oregon, Washington, and California led all States in the harvest of both saw logs and veneer logs in 1963 and 1967. By 1972, however, with the emergence of the softwood plywood industry in the South, Louisiana became the third leading veneer log producer. Alabama was the number one total producer of all roundwood products outside the Pacific region in 1972. Maine led the North in saw log, veneer log, and pulpwood output, and Missouri had the largest volume of "other" products.

Figure 4

Volume and Value of Round Timber Products Harvested, 1972



The total value of round timber products harvested in 1972 is estimated at \$6.3 billion (fig. 4) about 98.6 percent of the value of all products discussed in the following section.

Total value of timber products harvested in 1972 some \$6.4 billion

The total value of timber and related products harvested from U.S. forests in 1972 was an estimated \$6.4 billion (table A-4.) This was almost double the estimated value in 1963 and 80 percent larger than in 1967. The somewhat larger increase in total value than in timber products output during the study period was due to the rapid rise in average value for most products, particularly between 1967 and 1972.

In 1972, saw logs accounted for about 58 percent of the total value of the timber products harvested; veneer logs 21 percent; pulpwood 16 percent; and the "other" products such as fuelwood, poles, piling, pine gum and Christmas trees, the remaining 5 percent. This was somewhat different from the distribution in 1967 and 1963, when the total value of pulpwood harvested exceeded total veneer log value.

The West, which led all other sections of the Nation in total value of timber products harvested in each of the 3 study years, increased its share of the total from 52 to 55 percent between 1963 and 1972. This was primarily due to the relatively more rapid increase in average saw log and veneer log value for Pacific Coast species. The South was next in order of importance.

Value added in timber harvesting \$3.1 billion in 1972

The total value of the timber and related products harvested represents, in part, the costs of stumpage and of the intermediate products used in harvesting and transportation to local points of delivery. When these costs are deducted from the total value of timber products harvested, the value added in harvesting (and the value added attributed to timber) amounted to an estimated \$3.1 billion in 1972, double the \$1.5 billion added in 1963 (table A-5).

In 1972, about 55 percent of the total value added (also value added attributed to timber) was in the West, 36 percent in the South, and 9 percent in the North. This was somewhat different from the distribution of the value of timber products harvested, in part because of regional differences in logging methods and average wage rates.

Employment in harvesting 190,400 in 1972

In 1972, the equivalent of 190,400 people were employed in timber harvesting activities (table A-6, fig. 5). This was a decline of more than 86,000 from total employment in 1963 and was primarily due to continuing improvements in logging productivity across the Nation as well as declines in some of the more labor intensive activities such as pine gum gathering.

The estimates of logging employment presented here are substantially larger than estimated employment in the Logging Camps and Logging Contractors Industry (SIC 2411) shown in the 1963, 1967, and 1972 Censuses of Manufactures. This is because of differences in definitions and coverage. The Census estimates included only the employees of independent loggers and contractors and excluded the logging employees of primary manufacturing enterprises such as sawmills and pulpmills, farmers and other part-time loggers, and workers engaged in harvesting such miscellaneous products as pine gum. The estimates presented here, on the other hand, were derived by using timber products output data and estimated regional productivity factors and therefore include all harvesting employment.

Over half of the 1972 harvesting employment in the South

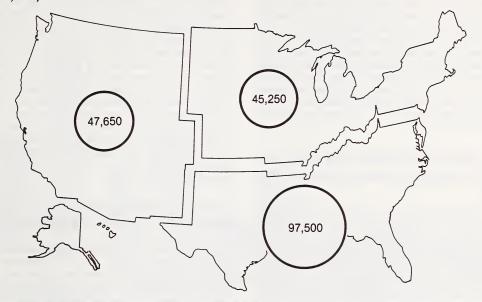
About 51 percent of the 190,400 people engaged in harvesting in 1972 were employed in the South, mostly in the production of pulpwood (tables A-6, and A-7). Another 25 percent of those employed in harvesting were in the West and were largely engaged in saw log production. Pulpwood production was also the most important harvesting activity in the North, followed closely by saw log harvesting.

The distribution of harvesting employment among the regions reflected both the volume and types of products harvested and the differences in labor productivity. Productivity as measured by output per person-year of employment was estimated to be much larger in the West than in the South or North. Harvesting of most products in the West tended to be more efficient because of the relatively larger scale of most operations and the fact that much of the logging was in stands of larger trees with higher average volumes per acre.

Oregon, with about 17,000 people employed in 1972, was the leading State in harvesting employment (table A-7). Georgia was the second ranked State, followed by Alabama, both in the South. Maine was the leading northern State in total harvesting employment.

Figure 5

Employment in Timber Harvesting, 1972 (Total 190,400)



Primary Manufacturing

Some of the products harvested from the Nation's forests, such as fuelwood and Christmas trees, are ready for use and need only be marketed or transported to the final consumer. However, most, such as saw logs, veneer logs, and pulpwood, are manufactured into lumber, plywood, wood pulp, and other similar items.

This primary manufacturing is carried out in a group of enterprises that have been classified in this study as the sawmills and planing mills industry; the veneer and plywood industry; the pulp, paper and paperboard industry; and "all other"—a grouping of various enterprises manufacturing such diverse timber products as excelsior, wood shingles, cooperage stock, particleboard, and gum and wood chemicals.

Lumber, plywood, woodpulp, and paper and board most important primary manufacturing products

The most important products of the primary manufacturing industries in 1972 were 31 billion board feet of softwood lumber, 6.8 billion board feet of hardwood lumber, 18.3 billion square feet (3/8-inch basis) of softwood plywood, 2.1 billion square feet (3/8-inch basis) of hardwood plywood, and 46.8 million tons of woodpulp (tables A-8, A-9, and A-10). In addition, these industries produced about 59.5 million tons of paper and board (mostly from woodpulp); 3.1 million square feet (3/4-inch basis) of particleboard; 1.6 million drums of rosin (520 pound net basis); 566,000 barrels (50 gallon basis); 531,000 tons of charcoal briquets; and numerous other products.

For most products, the volume produced in 1972 represented substantial increases over output in 1967 and 1963. For example, between 1963 and 1972 particleboard production increased sixfold, softwood plywood production 79 percent, woodpulp production 55 percent, paper and board 52 percent, hardwood plywood 25 percent, and softwood lumber 12 percent. The only solid wood product to exhibit a decline was hardwood lumber with a drop of about 5 percent. Turpentine and rosin output were also down.

The geographic distribution of production varied for the individual products, and some exhibited important regional shifts during the years covered by the study. In 1972, about 71 percent of the softwood lumber and softwood plywood was produced in the West, principally in Washington, Oregon, and California. For softwood lumber, this was only slightly less than the 73 percent produced in the West in 1963. For softwood plywood, however, the proportionate shift of production to the South was dramatic after production started in that region in 1964. About 63 percent of hardwood lumber production and 43 percent of hardwood plywood output were from mills in the South in 1972. For both products, this represented a slightly smaller proportion than in 1963. Hardwood lumber production showed a small shift to the North, while the West gained in the relative proportion of hardwood plywood output at the expense of both the other two regions. This came despite the lack of a large domestic hardwood timber resource in the West and was presumably based primarily on imported veneer.

Of the other major primary products, about 65 percent of the woodpulp, 49 percent of the particleboard, and nearly all of the naval stores were from the South. For woodpulp and particleboard, these were somewhat larger proportions than in 1963.

Value of products shipped from primary manufacturing industries \$23 billion in 1972

The total value of products shipped from the primary manufacturing industries in 1972 amounted to \$23.1 billion (table A-11). This was 86 percent larger than the \$12.4 billion shipped in 1963 and 54 percent above 1967. These increases were due to the rise in product prices during the study period and to the growth in the physical volume of product shipments. In terms of constant 1972 dollars, total value of shipments from the primary manufacturing industries increased about 55 percent between 1963 and 1972.³

cent—reflects increases in product prices.

Unlike value added, value of shipments data for the primary manufacturing industries include double counting because products of one mill or plant may be shipped as raw material to other plants in the same industry or to others classified in the primary manufacturing categories. For example, the value of lumber shipped from a sawmill to a plywood plant may be counted twice, once as a shipment from the sawmill and again as core material in a shipment from the plywood plant.

Over half of shipments from pulp, paper, and paperboard mills

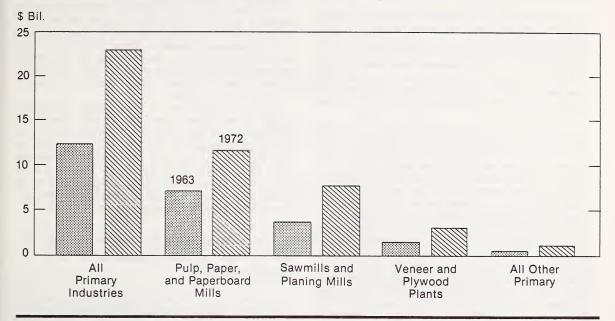
In 1972, 51 percent of the value of product shipments from primary manufacturing industries originated in pulp, paper, and paperboard mills, 33 percent in sawmills and planing mills, 13 percent in veneer and plywood plants, and 3 percent in such primary manufacturing enterprises as particleboard plants, and cooperage and wood shingle mills (table A-11, fig. 6).

² See Appendix B for the SIC firms included in the major industry

³ The implicit price deflator for net domestic product in manufacturing was used to derive estimates of value of shipments in 1972 dollars.

Figure 6

Value of Primary Manufacturing Shipments, by Industry, 1963 and 1972



As shown in figure 6, the value of shipments from each of the primary manufacturing industry sectors increased between 1963 and 1972. This was also true in terms of constant dollars, reflecting the increases in physical output discussed earlier. Because product output and prices followed somewhat different trends among the various industries, the proportion of total shipments attributable to each industry in 1972 was somewhat different from that in 1963 and 1967. Over the total study period, value of shipments from all except the pulp, paper and paperboard industry gained in relative proportion. Much of the increase for the industries classified in "all other" between 1967 and 1972 was due to reclassification of the rapidly growing particleboard industry in 1972. (See Appendix B.)

The South, with \$9.4 billion, led all sections of the Nation in value of products shipped from primary manufacturing industries in 1972. This represented some 41 percent of the national total, up from 37 percent in 1963. The West's share of the total also increased between 1963 and 1972, rising to \$7.5 billion, nearly ninetenths of which was from the Pacific region.

Oregon and Washington led all the other States in value of shipments with a total of almost \$3.0 billion and \$2.0 billion, respectively (table A-12). Georgia and Wisconsin had the highest totals for States outside of the Pacific region and were the only States in the East to exceed \$1.0 billion in total value of shipments from primary manufacturing industries.

The West led all other sections of the Nation in value of shipments from sawmills and planing mills and from veneer and plywood plants in 1972 (table A-11). The South was first in shipments from pulp, paper, and paperboard mills and from those classified in "all other." In 1967 and 1963, the North was the predominant shipper of products from the pulp, paper, and paperboard industry.

The pulp, paper, and paperboard industry was the largest contributor to total value of shipments in both the North and the South in all study years (table A-11). In 1972, about four-fifths of the total value of shipments in the North and more than half in the South was from pulp, paper, and paperboard mills. In the West, sawmills and planing mills were most important.

Value added in the primary manufacturing industries \$10.1 billion in 1972

Part of the value of shipments from the primary manufacturing industries represents the cost of stumpage, logs, fuels, chemicals, and other intermediate products purchased from other sectors of the economy. When the costs of these products were deducted from the value of shipments, the value added in primary manufacturing amounted to an estimated \$10.1 billion in 1972, up some 51 percent from 1967 and 85 percent above 1963 (tables A-13 and A-14).

As shown in the source notes to table A-13, these estimates of value added are somewhat below those given in the 1972, 1967, and 1963 Censuses of Manufactures, because of differences in definition and coverage. Data shown for primary manufacturing industries in Bureau of the Census publications include value added by logging operations when such operations are conducted by employees of the primary industry. For purposes of this study, the estimated value added in these logging operations was excluded from the totals for primary manufacturing. In addition, the value added for sawmills and planing mills in the East, as reported in the Census of Manufactures, was adjusted to include the estimated value added in small sawmills not covered by Census estimates. The combination of these two adjustments resulted in an estimated total value added for this study some \$222.6 million below the Census data for 1972.

Value added attributed to timber \$8.8 billion

The enterprises classified in the primary manufacturing industries based most of their manufacturing operations on timber products. For example, timber products composed about 95 percent of the cost of materials consumed in the sawmill and planing mills industry, and nontimber materials made up about 5 percent. In the veneer and plywood industry and in the pulp, paper, and paperboard industry, timber products accounted for about 87 percent and 85 percent, respectively, of the cost of materials consumed. Less than 70 percent of the cost of materials consumed by plants in the "all other" industry was for timber products.

By using the proportion of the various materials consumed in each of the SIC industries which make up the primary manufacturing industries in this study (see Appendix B) to allocate total value added, the value added attributed to timber was estimated at \$8.8 billion in 1972 (tables A-15 and A-16). This was about 56 percent larger than in 1967 and 83 percent above the comparable value in 1963.

In 1972, about 52 percent of the value added attributed to timber in the primary manufacturing industries originated in the pulp, paper, and paperboard sector (fig. 7). Another 33 percent originated in sawmills and planing mills, 12 percent in veneer and plywood plants, and 3 percent in other primary manufacturing enterprises. This distribution was somewhat different from that in 1963, primarily because of the changes in the relative value of shipments from the various industries, and some change in the volumes of timber products consumed in relation to all products consumed.

About 41 percent of the value added attributed to timber in the primary manufacturing industries in 1972 originated in the South, up from 39 percent in 1963. The percentage originating in the West also increased in the 1963-72 period, rising from 28 percent to 33 percent. Most of the decline in the percentage originating in the North was due to the relatively slower growth of the veneer and plywood industry and the pulp, paper, and paperboard industry in that section of the Nation.

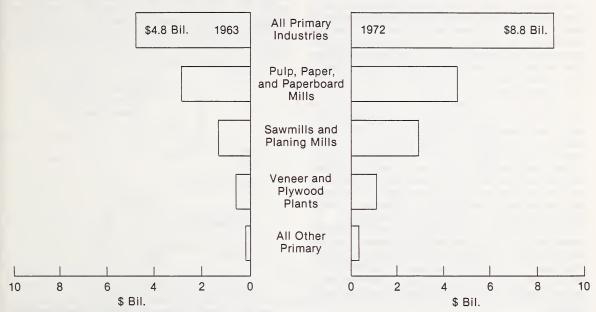
Value added attributed to timber per unit of timber input highest for pulp, paper, and paperboard mills

As shown in the following tabulation, the value added attributed to timber per cubic foot of wood consumed in the pulp, paper, and paperboard industry was more than 2.5 times the average for the sawmills and planing mills industry and 64 percent above the average for veneer and plywood plants. The primary reasons for these variations are differences in relative cost of the various materials used in the manufacturing processes, the degree of processing, and the value of products manufactured.

Industry	Value added attributed to timber per cubic foot of wood consumed, 1972 ¹ (dollars)
Sawmills and planing mills	0.49
Veneer and plywood	.77
Pulp, paper, and paperboard	1.26

¹ Estimates derived by dividing value added attributed to timber in each industry (table A-15) by the volume of wood harvested by type of timber product (table A-3).

Value Added Attributed to Timber in Primary Manufacturing, by Industry, 1963 and 1972



Employment in primary manufacturing industries 487,900 in 1972

In 1972, some 487,900 persons were employed in the primary manufacturing industries (tables A-17 and A-18). This was about 3 percent below the total 502,400 employed in 1963. Although there was some variation, the trend over the entire study period was down for the sawmills and planing mills and slightly up for the veneer and plywood plants and the pulp, paper, and paperboard mills. The industries classified in "all other" showed an increase of about 46 percent between 1963 and 1972; however, this was primarily due to the inclusion of the particleboard industry for the first time in 1972. (See Appendix B.)

The decline in the number of employees in the sawmills and planing mills industry, despite the rise in product output over the study period, was the result of significant increases in productivity. According to data published by the Bureau of Labor Statistics, output per employee hour rose at an average annual rate of 2.8 percent in the sawmills and planing mills industry (SIC 2421) between 1963 and 1972. These gains resulted from substantial technological change in plant design, sawing machinery and methods, and lumber handling equipment. Also im-

portant to the overall increase in industry productivity was the continuing decline in the number of small, relatively less efficient mills, particularly in the East. Although no exact numbers are available, trend estimates indicate that as many as 10,000 of these mills may have gone out of existence during the study period.

There were also significant increases in productivity in the veneer and plywood industry and the pulp, paper, and paperboard industry between 1963 and 1972, resulting in only modest increases in employment despite large rises in industry output. Bureau of Labor Statistics data show that output per employee has increased at average annual rates of 3.9 percent and 4.0 percent, respectively, for the veneer and plywood industry and the pulp and paperboard industry.

As discussed earlier in this report, the estimates of employment shown in table A-17 and A-18 are somewhat below those contained in the 1972, 1967, and 1963 Censuses of Manufactures because of differences in coverage and industry definitions. The adjustments to the data from the Census studies for small sawmill and logging employment resulted in an estimated total employment for this study some 19,500 below the Census data for 1972 (see source notes, table A-17).

Employment attributed to timber in primary manufacturing 426,550 in 1972

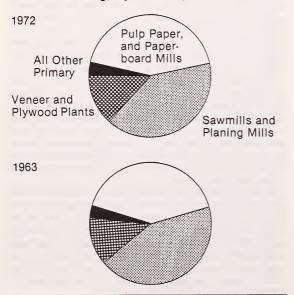
As discussed earlier, most of the timber-based enterprises classified in the primary manufacturing industries based part of their manufacturing operations on nontimber materials. Because of this, only a part of the total employment in these industries was attributed to timber. This amounted to the equivalent of 426,550 people in 1972, down from a total of 437,500 in 1967 and 449,750 in 1963 (tables A-19 and A-20).

In 1972, about 43 percent of the employment attributed to timber in primary manufacturing was in pulp, paper, and paperboard mills (fig. 8). An additional 40 percent was in sawmills and planing mills, 14 percent in veneer and plywood plants, and 3 percent in "other" primary manufacturing. This was somewhat different from the distribution in 1963, when about 44 percent of the total was in sawmills and planing mills; 41 percent in pulp, paper, and paperboard mills; 13 percent in veneer and plywood plants; and 3 percent in "all other."

These distributions of employment were in large part determined by the relative volumes of wood processed, the degree of its processing, and trends in these factors. The degree of processing is particularly important in explaining the relatively large volumes of employment in the pulp, paper, and paperboard industry and the veneer

Figure 8

Timber-Based Employment in Primary Manufacturing, by Industry, 1972 and 1963



and plywood industry. As shown in the following tabulation, the employment attributed to timber per unit of wood input was much larger in the pulp, paper, and paperboard industry and the veneer and plywood industry than in the sawmills and planing mills industry in both 1963 and 1972. In addition, the increases in productivity discussed earlier can be seen in the decline in the number of employees per unit of wood input.

Industry	Number of employee years
	attributed to timber per
	million cubic feet of
	wood consumed ¹

	1972	1963
Sawmills and planing mills	29	37
Veneer and plywood plants	42	62
Pulp, paper, and paperboard mills	50	68
All primary manufacturing industries	36	43

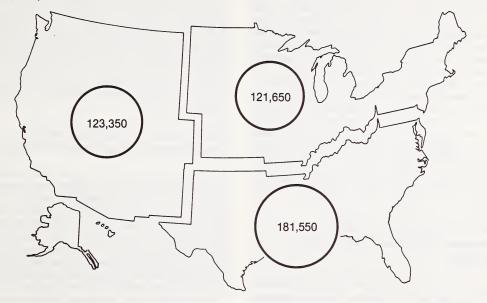
Estimates derived by dividing employment attributed to timber in each industry (table A-19) by the volume of wood produced by type of timber product (table A-3).

In 1972, about 43 percent of the total employment attributed to timber was in the South, 29 percent in the West (table A-19, fig. 9). In the West and the South, sawmills and planing mills were the leading employer among the primary manufacturing industries. Pulp, paper, and paperboard mills were the largest primary industry employer in the North.

Average value added per employee different by industry and region

Because of differences in such factors as degree of process automation, scale of operations, capital investment, worker and managerial skills, and differences in wage rates, there is a great deal of variation in average value added per employee among the primary manufacturing industries. In 1972, average value added per employee in the pulp, paper, and paperboard industry was \$24,880 about 51 percent larger than the average \$16,510 in the sawmills and planing mills industry and a third above the \$18,650 average for veneer and plywood plants. There was also considerable regional difference in value added per employee for the various industries. In the sawmills and planing mills industry, for example, the average ranged from a low of \$12,900 in the South to \$22,135 in the West. Value added per employee for both the veneer and plywood industry and the pulp, paper, and paperboard industry was lowest in the North and highest in the West.

Timber-Based Employment in Primary Manufacturing, 1972 (Total 426,550)



Secondary Manufacturing

Many of the products produced by the primary manufacturing industries, such as newsprint, charcoal, and lumber and plywood for do-it-yourself use, are ready for marketing to final consumers. Other primary products, however, such as the dissolving grades of wood pulp, much of the paper and paperboard, and substantial volumes of lumber, veneer and plywood, and particle-board are further manufactured into wearing apparel, containers, furniture, and other consumer goods.

This secondary manufacturing is accomplished in groups of firms that have been classified for this study as the millwork and prefabricated wood products industry; the wooden containers industry; the furniture industry; the paper and paperboard products industry; the fibers, plastics, and textiles industry; and "all other"—a group which includes firms engaged in wood preservation, and in the manufacture of such diverse products as mirror and picture frames, shoe lasts, cork products, ships and boats, toys, and sporting and athletic goods.

Shipments from selected secondary manufacturing industries in 1972 twice those in 1963

In 1972, the total value of shipments from the millwork and prefabricated wood products, wooden containers, furniture, and paper and paperboard products industries amounted to an estimated \$35.5 billion (tables A-21 and A-22).

About 47 percent of these shipments originated in the paper and paperboard products industry, 28 percent in the furniture industry, 23 percent in the millwork and prefabricated wood products industry, and 2 percent in the wooden containers industry.

Total value of shipments for these selected industries in 1972 was more than double the \$17.4 billion in 1963. Although there were increases in shipments from each of the four industries during the study period, the millwork and prefabricated wood products industry showed the largest rise, more than tripling.⁶

Shipments from the wooden containers industry rose 93 percent, from the furniture industry 9 percent, from the paper and paperboard products industry 78 percent.

Value of shipments was largest in the North in all 3 study years. However, there were important regional shifts between 1963 and 1972. For example, about 52 percent of the total shipments from the four selected industries was in the North in 1972, down from 60 percent in 1963. During the same period, shipments from industries in the South increased from 26 percent to 34 percent of the total. Western shipments were about 14 percent in both years.

Value added in selected secondary manufacturing industries \$34.0 billion 1972

A substantial part of the value of shipments from the secondary manufacturing industries represented the cost of materials, supplies, containers, fuel, and other supplies and services purchased from other firms and industries. When these costs were deducted from the value of shipments, the value added in the selected secondary manufacturing industries listed above and in the fibers, plastics, and textile industry amounted to \$34.0 billion in 1972, up about 77 percent from the \$19.3 billion estimated for 1963 (tables A-2 and A-24).

In all 3 study years, the fibers, plastics, and textiles industry led the other selected secondary industries in value added; however, its relative proportion declined from about 60 percent in 1963 to 52 percent in 1972. All the other industries showed some percentage increase, except for wooden containers which remained about 1 percent of the total.

Value added attributed to timber in secondary manufacturing \$12.5 billion industries in 1972

The secondary manufacturing industries based only part of their manufacturing operations on timber products. In some enterprises, such as those manufacturing nailed wood boxes and shook, wood pallets and skids, and wood containers, not classified elsewhere, timber products accounted for as much as 90 percent of the cost of all materials consumed. However, in others, such as those engaged in manufacturing many textile products, timber-based products accounted for as little as 5 percent.

Based largely on the proportionate cost of timber products consumed, the value added attributed to timber in the secondary manufacturing industries listed above and in "all others" using timber products, was estimated at \$12.5 billion in 1972, about 88 percent larger than the \$6.6 billion estimated for 1963 (tables A-25 and A-26, fig. 10). The contributions of the various secondary in-

 $^{^{4}}$ See Appendix B, for the SIC firms included in the major industry groups.

⁵ No attempt has been made to show the total value of shipments from all secondary manufacturing industries because of the unknown but considerable amount of duplication resulting from intraindustry and interindustry shipments of products, particularly in the fibers, plastics, and textile products industry.

Some of the differential growth between industries was possibly due to changes in industry definitions during the study period. (See Appendix R).

⁷ No attempt was rnade to compile the total value added by manufacture for industries in the "all other" grouping. Since some timber products are used in most manufacturing industries, such a total would represent a substantial part of all value added in manufacturing. (See Appendix B).

dustries to the total were somewhat different. In 1972, about 40 percent of the total originated in the paper and paperboard products industry. An additional 21 percent was added in the fibers, plastics, and textiles industry-mostly in firms engaged in throwing, spinning, and weaving rayon and in manufacturing rayon clothing. The millwork and prefabricated wood products industry accounted for another 16 percent, the furniture industry 14 percent, the wooden containers industry 3 percent, and "all other" secondary manufacturing industries about 6 percent. This was somewhat different from the distribution in 1963, when the millwork and prefabricated wood products industry composed only 9 percent of the total, and the fibers, plastics, and textiles industry 27 percent. The remaining industries showed relatively small changes.

Because of differences in the importance of timber products as a raw material in the various industries, the distribution of value added attributed to timber by industry was markedly different from that of total value added. For example, the value added attributed to timber was a relatively small part of the total value added in the fibers, plastics, and textile industry, a somewhat larger part in the furniture industry, and largest for the millwork and prefabricated wood products, wooden containers, and paper and paperboard products industries.

In 1972, about 52 percent of the value added attributed to timber in the secondary manufacturing industries was in the North, 36 percent in the South, and 12 percent in West (table A-26). In 1963, the North accounted for 58 percent, the South 31 percent, and the West 11 percent. These shifts were largely the result of differential regional growth for the various industries. For example, in 1963, the North led in value added attributed to timber in five of the six secondary industries, trailing only the South in the wooden container industry. However, by 1972, the South also led in the furniture, and the fibers, plastics, and textiles industries, and had shown faster growth in the remaining two industry groups.

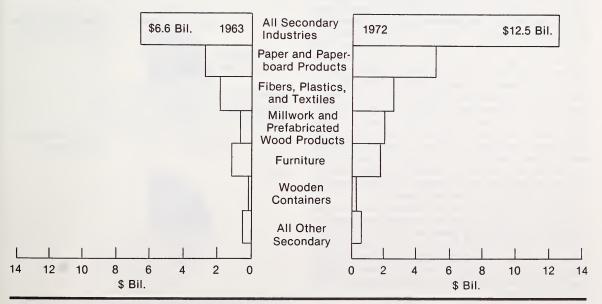
Employment in selected secondary manufacturing industries 2.7 million in 1972

Employment in all the secondary manufacturing industries except the "all other" grouping amounted to about 2.7 million in 1972, slightly above employment in 1967 and about 10 percent more than the 2.5 million employed in 1963 (tables A-27 and A-28). Three-fifths of the total in 1972 was in the fibers, plastics, and textile in-

* No attempt was made to compile total employment in the "all other" secondary manufacturing grouping. Since some timber products are used in most manufacturing industries, such a total would represent a substantial part of all employment in manufacturing. (See Appendix B)

Figure 10

Value Added Attributed to Timber in Secondary Manufacturing, by Industry, 1963 and 1972



dustry, and 15 percent each in the furniture industry and in the paper and paperboard products industry.

The South had the greatest number of employees in the selected secondary manufacturing industries in 1972, displacing the North which led in 1963. Among the various industries, the South was the largest employer in the fibers, plastics, and textiles industry, the furniture industry, and the wooden containers industry, while the North continued to lead in the millwork and prefabricated wood products industry and in the paper and paperboard products industry. In 1963, the North was the largest regional employer in all except the wood container industry.

Employment attributed to timber in secondary manufacturing industries 900,400 in 1972

In 1972, the employment attributed to timber amounted to an estimated 900,400 people (full-time equivalent) in the industries classified in the secondary manufacturing groupings (including employment attributed to timber in ''all other'') (tables A-29 and A-30). This was almost 50,000 more than in 1967 and up 14 percent from the 789,800 estimated for 1963. As discussed earlier, these estimates of employment attributed to timber were largely based on the relative cost of timber-based raw materials consumed.

About 31 percent of the total employment attributed to timber in 1972 originated in the paper and paperboard products industry (fig. 11). An additional 27 percent was in the fibers, plastics, and textiles industry, 17 percent in the furniture industry, 15 percent in the millwork industry, 4 percent in the wooden containers industry, and 6 percent in "all other" secondary manufacturing industries. These were about the same percentages as in 1963 for the paper and paperboard products, the furniture, and the wooden containers industries. The fibers, plastics, and textiles industry and the "all other" grouping, on the other hand, showed little change in total employment, and thus, a decline in relative proportion. Employment attributed to timber in the millwork and prefabricated wood products industry increased more than 90 percent; however, as discussed earlier, much of this was probably due to the changes in industry composition and classification shown in Appendix B.

As shown in figure 12 and the following tabulation, the North led in total employment attributed to timber in secondary manufacturing industries in all 3 study years. However, because of such factors as differential industry growth, regional shifts, differences in productivity, and changes in timber products use, its relative share dropped steadily. Most of this decline was counterbalanced by increases in the South.

Region	attributed	are of total e to timber in facturing ind	secondary
	1072	1067	1062

1972 (percent) 1967 (percent) 1963 (percent) North 48 53 55 South 41 37 35 West 11 10 10 All regions 100 100 100				
South 41 37 35 West 11 10 10				1963 (percent)
West 11 10 10	North	48	53	55
	South	41	37	35
All regions 100 100 100	West	11	10	10
	All regions	100	100	100

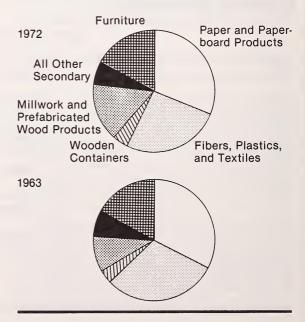
Among the various secondary manufacturing industries, the North showed relatively slower growth than the South and West in employment attributed to timber in the millwork and prefabricated wood products and paper and paperboard products industries and an actual decline for the furniture; fibers, plastics, and textiles; and "all other" industries.

Average value added per employee highest in the paper and paperboard products industry

The average value added per employee varied considerably among the secondary manufacturing industries. For example, in 1972, the average in the paper and paper-

Figure 11

Timber-Based Employment in Secondary Manufacturing, by Industry, 1972 and 1963

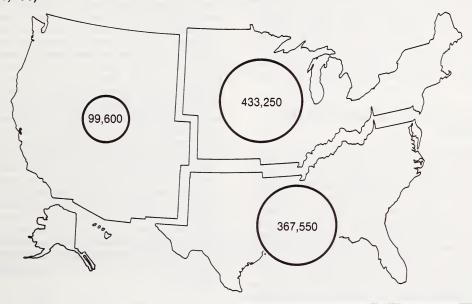


board products industry was about \$18,420—almost double the average \$9,725 in the wooden containers industry. There was also a substantial range in averages between regions within the same industry. Most of these varia-

tions are due to such factors as regional and industry differences in worker and managerial skills, wage rates, process automation, capital investment, and scale of operations.

Figure 12

Timber-Based Employment in Secondary Manufacturing, 1972 (Total 900,400)



Construction

Construction is the most important final use for timber products. Recent studies have shown that in the 1960's and early 1970's as much as three-fourths of the softwood lumber and plywood; a tenth of the pulp products; all of the poles, piling, and shingles; and significant quantities of other timber products consumed in the United States, were used in construction.

Construction, as defined for this study, includes the erection, maintenance, and repair of immobile structures and utilities, together with their integral service facilities. Structures include buildings, docks, bridges, railways, and other similar works that are built into or affixed to the land. Utilities are such things as electric light and power transmission lines, telephone and telegraph lines, sewers, and other similar facilities generally used for supplying services to individuals and establishments.

Value of construction an estimated \$159 billion in 1972

Construction grew rapidly during the study period. The estimated total value of new construction and maintenance and repair construction was about \$159.1 billion in 1972, up from \$85.3 billion in 1963. The largest single construction component in terms of value was residential construction. In 1972, for example, nearly 44 percent of the total value of new construction put in place was attributable to private residential building (table A-31). Housing is also the most important construction sector in terms of wood products use. An estimated 41 percent of all of the softwood sawtimber products consumed in the United States in 1972 was used for new housing units. More than 95 percent of this was consumed in the 2.4 million housing units constructed on-site (table A-32).9

A substantial part of the expenditures for construction, and of the value of a firm's production, represents payments for construction work subcontracted to other firms and payments for materials, components, and supplies purchased from other sectors of the economy. When estimates of these costs (and receipts for land development for certain firms) were taken into consideration, the value added in construction amounted to an estimated \$79.6 billion in 1972, 59 percent above 1967 and 93 percent larger than the \$41.1 billion estimated for 1963 (table A-33).

Value added attributed to timber in construction \$11.9 billion in 1972

The volume of construction and, consequently, the value added in construction, vary substantially between the sections and regions of the Nation. In addition, there are marked differences in the types of buildings and other structures constructed and in the volumes and kinds of materials used to build them. For example, studies have shown that the cost of lumber and other wood products as a percent of the total cost of materials, supplies, and equipment may vary from 41 percent for single-family housing to 22 percent for multifamily housing to as little as 0.8 percent for sewer line construction. Moreover, because of such factors as size, style, consumer preferences, and regional materials availability and cost, the kinds of materials used in a given type of construction may be quite different in different areas. By assuming that value added could be allocated in proportion to the cost of the various materials used, the value added attributed to timber was estimated at \$11.9 billion in 1972, \$6.7 billion in 1967, and \$6.2 billion in 1963 (table A-33).

In 1972, about 46 percent of the value added attributed to timber was in the North, 32 percent in the South, and 22 percent in the West (fig. 13). This represented a rather large gain since 1963 for the South at the expense of the other two regions. California was the leading State, accounting for 11 percent of total value added attributed to timber nationwide and over half of that in the West. New York, Florida, Texas, and Illinois ranked next in order of importance.

Construction employment 5.3 million in 1972—795,250 attributed to timber

In 1972, the equivalent of about 5.3 million employees was engaged in construction activities (table A-34), an increase of about 21 percent from the 4.4 million employed in 1963¹⁰ Using the proportionate cost of timber products by building type, year, and region as discussed earlier and in table A-34, the employment attributed to timber rose from 647,150 in 1963 to 795,250 in 1972.

In 1972, about 42 percent of total employment attributed to timber was in the North, 39 percent in the South, and 19 percent in the West (fig. 14). As was true for value added, this represented a proportionate gain for the South, and losses for the North and West. California was the leading State for construction employment attributed to timber; Florida, Texas, and New York followed in order.

⁹ Mobile homes are a product of industry SIC 2451 and for purposes of this study were classified in secondary manufacturing in the millwork and prefabricated wood products industry. (See appendix B).

¹⁰ As in the table A-34, these are estimates of total construction employment and thus considerably exceed those in Contract Construction (SIC's 15, 16, and 17) alone, as shown in the Censuses of Construction Industries.



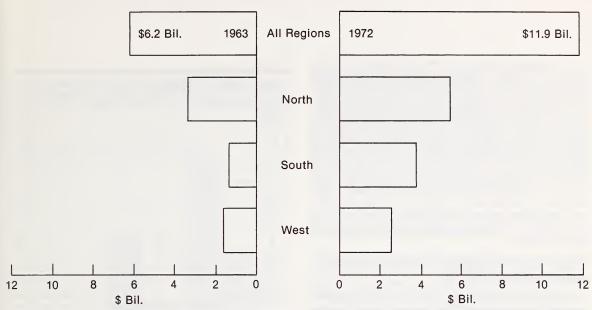
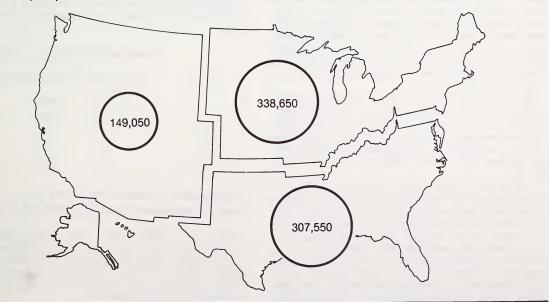


Figure 14

Timber-Based Employment in Construction, 1972 (Total 795,250)



Transportation and Marketing

The activities discussed in the earlier sections of this report have been concerned with producing and harvesting timber products and converting these products into finished goods. There are also other kinds of activities involved in preparing timber and related products for use by final consumers. These include transporting logs and other timber products from local points of delivery to manufacturing plants or consumers; transporting primary and secondary products from points of manufacture to final consumers; and marketing these products through wholesale and retail channels. These activities are carried on in a group of enterprises that have been classified as the railroad, truck, and water transportation industries, and the wholesale and retail trade industries.

Value added in transportation and marketing about \$194 billion in 1972

The total value added in transportation and marketing amounted to an estimated \$194 billion in 1972, up from \$127 billion in 1967 and \$97 billion in 1963. In all 3 years, more than four-fifths of the total originated in marketing, largely in the retail trade sectors (table A-35).

Value added attributed to timber in transportation and marketing, \$9.3 billion in 1972

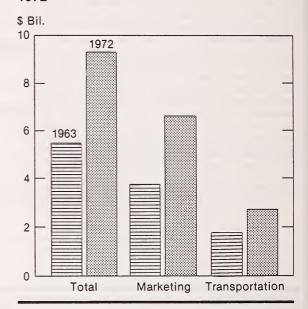
Only a relatively small part of the activity of enterprises in transportation and marketing was based on timber products. In the transportation industries in 1972, these products accounted for about 13.5 percent in railroad transportation, 10.3 percent in water transportation, and 5.7 percent in truck transportation. In wholesale trade and retail trade, sales of timber products accounted for slightly over and slightly under 4 percent, respectively, of total sales.

By assuming that value added attributed to timber products could be estimated from their relative proportion of total freight revenues or wholesale or retail sales, the total value added attributed to timber in transportation and marketing was estimated at \$9.3 billion in 1972, \$6.4 billion in 1967, and \$5.5 billion in 1963 (table A-35, fig. 15).

The industry origins of the value added attributed to timber are shown in tables A-36 and A-37. In 1972, about 71 percent of the total was added in marketing—mostly in retailing. The remaining 29 percent was in transportation, largely in railroad and truck transportation.

As shown in the tabulation below, about 50 percent of the total value added attributed to timber in transportation and marketing in 1972 was in the North, 30 percent in the South, and 20 percent in the West. This was somewhat different from the distribution in 1963, when about Figure 15

Value Added Attributed to Timber in Transportation and Marketing, 1963 and 1972



56 percent was in the North and 24 percent in the South. The Western proportion did not change during the study period.

Region		Value added attributed to timber in transportation and marketing			
	1972	1963			
	percent	percent			
North	50	56			
South	30	24			
West	20	20			
All regions	100	100			

Employment attributed to timber in transportation and marketing 835,150 in 1972

About 18.7 million people were employed in transportation and marketing in 1972 (table A-38). This was some 13 percent above 1967 and 24 percent larger than the 15.0 million employed in 1963. In all 3 years, nearly ninetenths of the total was in marketing—largely in retail trade (tables A-39 and A-40).

By assuming that timber-based employment in transportation and marketing could be estimated from the proportion of freight revenue from or sales of the various timber products, the employment attributed to timber was calculated to total the equivalent of 835,150 employees in 1972, about the same as in 1967 and up some 4.3 percent from 800,400 in 1963.

Marketing accounted for four-fifths of the total combined employment attributed to timber in transportation and marketing in 1972. In all, 669,700 people were employed in timber-based marketing activities in 1972, up 10 percent from the 610,200 employed in 1963 (table A-40). Although there was some fluctuation, employment attributed to timber increased in both retail and wholesale trade during the study period.

Employment attributed to timber in transportation, on the other hand, declined between 1963 and 1972, dropping 13 percent to 165,450 (table A-39). Truck transportation registered an increase; however, both railroad and water transportation employment dropped sharply.

Because of a number of factors that include population patterns, industry locations, and resource availability, the employment attributed to timber in transportation and marketing varied somewhat between the major sections of the Nation. In 1972, for example, about 49 percent of the total was in the North, 32 percent in the

South, and 19 percent in the West (fig. 16). This represented a substantial proportionate gain for the South and decline for the North during the study period. The percentage in the West showed a small rise.

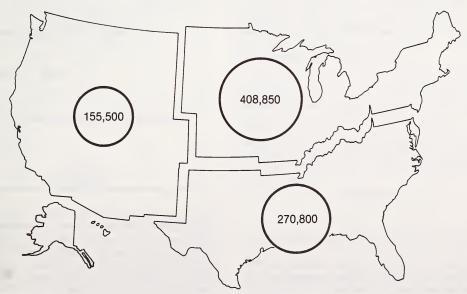
In 1972, the employment attributed to timber in transportation and marketing made up about 4.5 percent of the total employment in these combined industries, down from 5.3 percent in 1963. This decline resulted from drops in the percentages both for wholesale and retail trade and for truck and water transportation.

Average value added per employee highest in railroad transportation, lowest in retail trade

In 1972, average value added per employee in transportation and marketing ranged from a high of about \$18,010 in railroad transportation to a low of \$7,330 in retail trade. There was also a substantial range in the average value added per employee among the regions of the country within the same industry. As discussed for other industries, most of the variation is due to such factors as regional and industry differences in worker and manager skills, wage rate, capital investment, and scale of operations.

Figure 16

Timber-Based Employment in Transportation and Marketing, 1972 (Total 835,150)



Conclusion

In the preceding sections of this report, estimates of value added and employment attributed to timber in the major timber-based economic activities have been presented. In this section and in table 1 shown on page 5, these estimates are combined and estimates of total gross national product and employment originating in all timber-based economic activities are presented.

About 4.1 percent of the Nation's GNP from timber-based economic activities

The sum of the values added attributed to timber in all kinds of timber-based economic activities amounted to about \$48.5 billion in 1972 (tables A-41 and A-42). This represented about 4.1 percent of the Nation's GNP (fig. 17). This means that about \$1 out of every \$24 of the GNP originated in some type of timber-based economic activity. In 1963, the sum of the values added attributed to timber totaled \$26.1 billion and composed 4.4 percent of the GNP.

Figure 17

Gross National Product Originating in Timber-Based Activities, 1972 and 1963





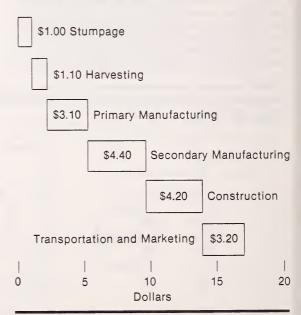
Of the total value added attributed to timber in 1972, about 6 percent was added in timber management. Another 6 percent was added in harvesting, 18 percent in primary manufacturing, 26 percent in secondary manu-

facturing, 25 percent in construction, and 19 percent in transportation and marketing. The distribution of total value added attributed to timber was about the same in 1963 and 1967.

Looked at in another way, the data on value added show that in 1972, timber increased in value nearly 17 times between the stump and delivery of finished timber-based products to final consumers (fig. 18). On the average, to each \$1 worth of stumpage cut, another \$1.10 was added in harvesting, \$3.10 in primary manufacturing, \$4.40 in secondary manufacturing, \$4.20 in construction, and \$3.20 in transportation and marketing. In 1967, the total increase was almost \$21 and in 1963 about \$19.50.

Figure 18

Timber-Based Value Added per Dollar of Stumpage Cut, by Activity, 1972



Geographically, about 40 percent of the value added attributed to timber in 1972 was in the North, 35 percent in the South and 25 percent in the West. California, in the West, led all the States in total value added; followed by New York in the North; and Oregon and Washington, also in the West (table 42). Pennsylvania was second to New York in the North. Texas, North Carolina, and Georgia had the highest totals for the southern States.

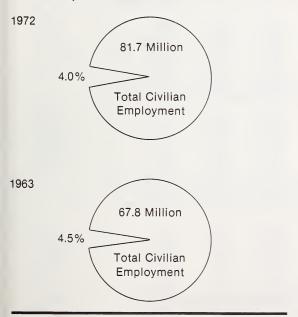
Among the various activities, value added in timber management and harvesting was highest in the West; in primary manufacturing in the South; and in secondary manufacturing, construction, and transportation and marketing in the North.

One of every 25 workers employed in timber-based economic activity

Employment (full-time equivalent) in all timber-based economic activities amounted to 3.3 million people in 1972 (tables A-43 and A-44). This represented about 4.0 percent of the total civilian employment in the United States in 1972 and means that about 1 out of every 25 people employed was engaged in some kind of timber-based economic activity (fig. 19). In 1963, the employment attributed to timber was 3.1 million, about 4.5 percent of total civilian employment.

Figure 19

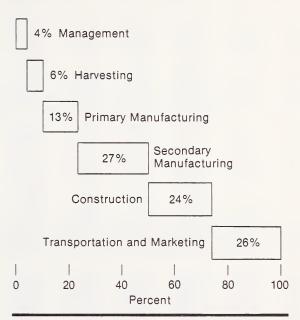
Employment Originating in Timber-Based Activities, 1972 and 1963



Some 4 percent of the employment attributed to timber was in timber management (fig. 20). An additional 6 percent was in harvesting, 13 percent in primary manufacturing, 27 percent in secondary manufacturing, 24 percent in construction, and 26 percent in transportation and

Figure 20

Timber-Based Employment, by Activity, 1972



marketing. These data on employment attributed to timber show that for each worker employed in management and harvesting, four were employed in primary and secondary manufacturing and five in construction, transportation, and marketing.

In 1972, 42 percent of the total employment attributed to timber was in the North, 39 percent in the South, and 19 percent in the West. California had the largest State timber-based employment followed by New York, Pennsylvania, Texas, and North Carolina. The South led all other sections of the Nation in employment in timber management, harvesting, and primary manufacturing, while the North had the highest number employed in secondary manufacturing, construction and transportation and trade.

Appendix A. Tables

Table A-1.—Estimated volume and value of stumpage cut, value added, and value added attributed to timber in forest management in the United States, by region and State, 1972, 1967, and 1963

		1972			1967			1963	
Region and State	Volume'	Value of stumpage cut	Value added attributed to timber	Volume [†]	Value of stumpage cut	Value added attributed to timber	Volume ¹	Value of stumpage cut	Value added attributed to timber
	Thousand cubic feet	Thousand dollars	Thousand dollars	Thousand cubic feet	Thousand dollars	Thousand dollars	Thousand cubic feet	Thousand dollars	Thousand dollars
orth:									
Northeast:									
Maine New Hampshire	310,200 50,750	24,550 5,800	24,550 5,800	339,250 42,600	18,900 2,900	18,900 2,900	241,400 43,050	13,350 3,150	13,35 3,15
Vermont	42,050	4,950	4,950	39,400	3,250	3,250	49,700	4,650	4,65
Massachusetts	14,250	2,450	2,450	31,650	2,200	2,200	26,550	1,850	1,85
Rhode Island Connecticut	1,600 6,000	850	850	1,850 11,900	750	750	3,400 19,450	1,050	1,05
New York	95,550	11,250	11,250	133,400	10,750	10.750	159,200	11,600	11,60
New Jersey Pennsylvania	11,900 138,500	1,150 14,850	1,150 14,850	45,900 166,300	3,500 10,550	3,500 10,550	33,300 204,850	2,450 14,200	2,45 14,20
Total	670,800	66,050	66,050	812,250	52,900	52,900	780,900	52,500	52,50
North Central: Ohio	87,450	19,850	19,850	104,000	14,000	14,000	90,200	12,150	12,15
Indiana	45,000	8,250	8,250	58,750	7,150	7,150	49,450	5,450	5,45
Illinois	38,450 201,000	6,600 21,100	6,600 21,100	82,550 197,700	10,600 15,200	10,600 15,200	44,650 215,650	5,250 14,150	5,25
Michigan Wisconsin	194,650	21,750	21,750	181,400	14,250	14,250	201,550	14,150	14,15 12,40
Minnesota	143,750	14,700	14,700	151,050	13,200	13,200	190,450	14,900	14,90
lowa Missouri	22,900 90,250	3,200 13,850	3,200 13,850	20,950 100,800	1,650 10,750	1,650 10,750	22,250 111,450	1,650 10,450	1,65 10,45
North Dakota	900	13,630	13,630	1,400	10,730	10,730	1,500	2	10,43
South Dakota	14,050	1,000	1,000	17,450	800	800	7,450	2	
Nebraska Kansas	6,100 11,050	1,100 1,350	1,100 1,350	9,700 8,600	800 700	800 700	8,150 8,300	600 550	60 55
Total	855,550	112,850	112,850	934,350	89,200	89,200	951,050	77,750	77,75
Total, North	1,526,350	178,900	178,900	1,746,600	142,100	142,100	1,731,950	130,250	130,25
uth: Southeast:									
Delaware	8,900	1,300	1,300	13,650	950	950	9,750	1,000	1,00
Maryland	48,250 283,350	9,900 49,400	9,900 49,400	46,700 292,950	5,500 32,950	5,500 32,950	63,500 396,400	7,100 41,050	7,10 41,05
Virginia West Virginia	92,800	13,500	13,500	125,300	10,000	10,000	144,650	9,750	9,75
North Carolina	462,050	86,050	86,050	434,700	49,950	49,950	420,850	45,800	45,80
South Carolina	374,850 732,200	72,050 129,750	72,050 129,750	400,800 644,100	48,600 72,400	48,600 72,400	283,900 579,900	28,900 60,750	28,90 60,75
Georgia Florida	273,250	45,000	45,000	254,550	29,500	29,500	228,150	23,850	23,85
Total	2,275,650	406,950	406,950	2,212,750	249,850	249,850	2,127,100	218,200	218,20
South Central:									
Kentucky	114,800	15,900	15,900	110,000	10,150	10,150	155,200	12,150	12,15
Tennessee	155,000	20,400	20,400	162,350	14,150	14,150	179,800	12,050	12,05
Alabama Mississippi	801,800 610,900	123,050 95,250	123,050 95,250	711,200 483,650	65,150 44,850	65,150 44,850	483,150 371,250	40,150 30,000	40,15 30,00
Arkansas	540,400	93,500	93,500	466,400	47,450	47,450	425,250	38,100	38,10
Louisiana	642,400	114,150	114,150	531,750	58,150	58,150	381,050	33,250	33,25
Oklahoma Texas	64,400 424,350	10,700 81,200	10,700 81,200	35,300 311,600	3,100 33,800	3,100 33,800	53,850 293,300	3,900 29,350	3,90 29,35
Total	3,354,050	554,150	554,150	2,812,250	276,800	276,800	2,342,850	198,950	198,95
Total, South	5,629,700	961,100	961,100	5,025,000	526,650	526,650	4,469,950	417,150	417,15
	5,057,100	701,100	701,100	3,023,000					
est: Mountain:									
Montana	280,300	62,750	62,750	274,400	24,750	24,750	201,900	13,700	13,70
Idaho	320,100	84,900	84,900	310,650	34,050	34,050	255,200	21,100	21,10
Wyoming Colorado	44,300 38,650	5,500 3,050	5,500 3,050	33,650 34,750	3,650 2,200	3,650 2,200	19,250 39,600	1,150 2,000	1,15 2,00
New Mexico	49,550	4,550	4,550	41,050	2,950	2,950	42,350	2,700	2,70
Arizona	87,450	13,350	13,350	95,150	11,200	11,200	66,250	6,600	6,60 750
Utah Nevada	9,850 2,800	900	900	10,950 5,550	750	750	13,500 5,900	750	7.51
Total	833,000	175,100	175,100	806,150	79,800	79,800	643,950	48,250	48,25
Pacific:									
Washington	1,266,450	469,800	469,800	1,123,750	206,350,	206,350	975,600	165,500	165,500
Oregon California	1,679,150	739,850 319,850	739,850 319,850	1,624,450 716,750	367,550 140,400	367,550 140,400	1,855,550 825,700	413,800 155,900	413,800 155,900
Alaska	871,500 75,550	19,100	19,100	58,850	6,800	6,800	70,500	5,500	5,50
Hawaii	3	2	2	900	2	2	500	2	= 10 ===
Total	3,892,650	1,548,600	1,548,600	3,524,700	721,150	721,150	3,727,850	740,750	740,750
Total, West	4,725,650	1,723,700	1,723,700	4,330,850	800,950	800,950	4,371,800	789,000	789,000
									1,336,400

Table A-2-Estimated employment in timber management in the United States, by region and State, 1972, 1967, and 1963

(Number

Region and State	1972	1967	1963	Region and State	1972	1967	1963
North:				South Central:			
Northeast:				Kentucky	2,250	1,950	1,700
Maine	3,250	2,850	2,550	Tennessee	3,000	2,800	2,500
New Hampshire	800	750	700	Alabama	3,800	3,450	3,200
Vermont	750	650	600	Mississippi	3,900	3,550	3,450
Massachusetts	900	900	900	Arkansas	3,400	3,350	3,450
Rhode Island	, ,	, , ,	, , ,	Louisiana	3,600	3,300	3,050
Connecticut				Oklahoma	900	800	800
New York	2,600	2,400	2,050	Texas	2,550	2,300	2,150
New Jersey	600	500	2,030	10,43	2,550	2,500	2,150
Pennsylvania	2,850	2,600	2,400	Total	23,400	21,500	20,300
Total	12,400	11,300	10,250	Total, South	48,700	44,200	40,950
North Central:				West:			
Ohio	1,400	1,300	1,200	Mountain:			
Indiana	550	550	550	Montana	3,400	3,050	2,400
Illinois	1,700	1,600	1,550	Idaho	2,450	2,850	1,850
Michigan	2,900	2,700	2,500	Wyoming	500	1	
Wisconsin	3,050	2,700	2,500	Colorado	1,600	1,250	1,100
Minnesota	1,850	1,800	1,700	New Mexico	950	1,150	750
lowa				Arizona	1,050	850	650
Missouri	2,100	1,950	1,850	Utah	1,250	1,000	900
North Dakota			.,	Nevada			
South Dakota	600						
Nebraska				Total	11,650	10,850	8,250
Kansas				10.2		10,000	0,000
1				Pacific:			
Total	15,300	14,250	13,000	Washington	5,600	5,250	4,554
				Oregon	7,800	8,300	6,100
Total, North	27,700	25,550	23,250	California	13,550	12,850	11,200
				Alaska	1,950		
South:				Hawaii	1		
Southeast:							
Delaware				Total	29,150	27,050	22,250
Maryland	1,000	900	800				,250
Virginia	3,500	3,100	2,800	Total, West	40,800	37,900	30,500
West Virginia	1,700	1,500	1,350				
North Carolina	4,350	3,850	3,450	Total, United States	117,200	107,650	94,700
South Carolina	2,950	2,700	2,550				
Georgia	6,650	6,000	5,500				
Florida	5,100	4,550	4,050				
Total	25,300	22,700	20,650				

Less than 500 employees.

Note: Estimates of the number of temporary employees and forest landowners engaged in timber management activities have been converted to a full-time basis. No direct data are available on the number of professional foresters employed; however, information from the Journal of Forestry, the Economic Importance of Timber in the United States and other sources indicate that about 20,000 of the total 117,200 persons employed in 1972 were professional foresters.

Sources: Estimates of the full-time equivalent of the number of employees engaged in timber management activities were derived from data published in the U.S. Department of Commerce, Bureau of the Census, 1960 and 1970 Censuses of Population, the journal of Forestry, the Economic Importance of Timber in the United States and from data in personnel and administrative records of the Bureau of Land Management, U.S. Department of the Interior, and the Forest Service, U.S. Department of Agriculture.

Footnotes for Table A-1.

- 1 Timber products cut from roundwood.
- ² Less than 500 thousand dollars.
- Less than 500 thousand cubic feet.

Source: Volume—Estimates based on data published by the U.S. Department of Commerce, Bureau of Census in the 1963, 1967, and 1972 Censuses of Manufacturers, annual issues of Bureau of the Census Current Industrial Reports Series for timber products, and data collected by the Forest Service as part of surveys of timber products output by State. Value—Estimates derived from the calculated volumes and estimates stumpage prices based on prices received for National Forest timber, data contained in various State reports on forest product prices, and price data collected by the Forest Service. Value added and value added attributed to timber are assumed to equal value of stumpage cut.

Table A-3.—Estimated volume of round timber products harvested in the United States, by major product, region, and State, 1972, 1967, and 1963.

10,200 1,2																
Signate Total Size bgs Veneral Size bgs Veneral Total Size bgs Size bgs Veneral Total Size bgs S	Panion			1972					1961				-	1963		
State Stat	and State	Total	Saw logs	Vencer	Pulpwood	Other products ¹	Total	Saw logs	Vencer	Pulpwood	Other products ¹	Total	Saw logs	Veneer	Pulpwood	Other products ¹
Part	orth: Northeast:															
Fig. 1979 1975 1970 19	Maine	310,200	84,200	6,100	200,400	19,500	339,250	72,700	6,400	238,250	21,900	241,400	45,550	7,800	172,050	16,000
sachwert 4239 19739 1,100 1,130 9,00 19,20 19,20 10 1,20 1,20 1,20 1,20 1,20 1,20 1,2	New Hampshire	50,750	30,450	350	17,050	2,900	42,600	16,900	000,1	008'61	4,900	43,050	20,400	1,150	14,400	7,100
such cases 14.20 17.24 15.0 1	Vermont	42,050	19,750	001,1	11,500	9,700	39,400	19,200	008,1	10,700	7,700	49,700	27,700	008,1	12,450	7,750
Appear 1,000 700 1,000	Massachusetts	14,250	12,250	150	1,200	650	31,650	13,750	300	1,750	15,850	26,550	12,300	200	2,050	12,000
Page	Rhode island	009'1	002		007	000	1,850	200	- 1	059	00/	3,400	050,1	` ;	069	00/1
1,55,5 4,500 2,1	Connecticut	9,000	3,450		750	008,	11,900	3,200	20	1,150	7,500	19,450	3,600	20	1,250	14,550
18,000 0,000 1,500 4,500 1,5	New York	95,550	43,600	2,100	33,200	16,650	133,400	56,050	3,450	31,550	42,350	159,200	49,000	2,750	33,350	74,100
Contract	New Jersey	006,11	4,650	90 00	2,300	4,850	45,900	13,900	200	3,800	28,000	33,300	4,600 87,400	3 050	4,900	23,600
Central: St 450 St 850 Li 100 Li 450 Li 700 St 750 St 740 Li 700 St 740 Li 740 St 740	Total	670,800	268,950	11,850	313,300	76,700	812,250	263,850	15,300	359,700	173,400	780,900	251,600	000,71	282,050	230,250
St. 450 50,850 1,100 18,450 17,500 104,000 61,550 1,105 54,500 1,200 44,500 45,500 54																
March Marc	worth Central:	03 4 50	030 03	3	10 460	090	000 101	055 17	0501	32 300	000 001	000 000	63 600	1 300	17.800	009 81
1,256,340 3,4500 4,500	Ohio	87,450	00,830	001,1	18,450	050,71	58 750	37.450	050,1	5.450	13,200	49 450	25,100	2 500	0.65	15,900
those 20,000 (7,300 2,500 9,400 11,100 11,100 12,500 10,100 11,10	Illinois	39,450	24,000	008	0,100	056.8	82.550	07,400	050 1	5.450	48.450	44 650	24.000	1.400	7.650	11.600
194569 29,800 2,510 11,900 21,200 151,100 25,750 29,700 19,510 20,5100 20,	Michigan	201.000	67,800	2.500	99.400	31.300	197,700	53.700	3,200	100,850	39,950	215,650	58,050	2,350	96,150	59,100
143750 15,890 15,800 15,890 1	Wisconsin	194,650	49,800	3,150	006,111	29,800	181,400	45,100	3,700	103,050	29,550	201,550	36,100	3,850	91,250	70,350
900 2,2,900 9,000 1,150 4,050 1,000 20,950 6,950 9,950 2,120 1,050 1,14,000 11,450 1,150 1,14,000 1,14,000 1,150 1,140 1,150 1,150 1,140 1,150 1,150 1,140	Minnesota	143,750	21,950	009	100,000	21,200	151,050	25,750	006	92,300	32,100	190,450	50,800	1,500	81,350	26,800
ssourist 90,250 39,850 70 4,050 45,650 100,800 50,450 900 1,650 47,800 11,450 braska 14,050 6,880 7 3 450 100,1440 900 7 3,400 1,00 1,00 1,00 1,440 900 7 3,400 1,00 1,00 1,00 1,240	Iowa	22,900	000'6	1,150	2,450	10,300	20,950	6,950	950	2,150	10,900	22,250	6,150	000,1	1,450	13,650
1,000 1,00	Missouri	90,250	39,850	700	4,050	45,650	100,800	50,450	900	1,650	47,800	111,450	40,250	006	009*1	98,700
1,050 2,450 300 1,500 1,450	North Dakota	006	200	,	7	000	1,400	300	4 -	, , , ,	7.060	000,1	90	. 3	. 037.0	1,400
1,000 24,50 36,000 12,50 34,00 4,75 8,600 31,50 450 31,50 450 31,50 450 31,50 450 31,50 450 31,50 450 31,50 450 31,50 450 31,5	South Dakota	14,050	6,830	300	3,550	0595	0,450	6,730	9	3,630	4 350	8 150	3 2 50	8 8	2,030	4,700
Foreity Court Co	Kansas	11,050	2,450	450	3,400	4,750	8,600	3,150	450	^	2,000	8,300	950	820	~	6,500
Total, North	Total	855,550	306,600	12,550	354,000	182,400	934,350	324,000	14,450	336,750	259,150	951,050	297,300	15,750	305,850	332,150
Heast: 8,900 2,600 1,130 3,530 1,600 13,690 1,900 1,230 7,230 3,230 1,530 1,900 1,230 1,240.0 1,230 1,240.0 1,230 1,240.0 1,2	Total, North	1,526,350	575,550	24,400	992,300	259,100	2007 2782 1	030 203	021.00	007 460	413 660	030 142 1	648 000	037.00	(000 100	(AUF C 23
Page 18 Page	u						1,740,047)	066,185	067,62	050,430	432,330	006,167,1	340,700	32,730	307,100	302,400
e 8,900 2,600 1,150 3,550 1,600 13,650 1,900 1,250 7,250 6,580 6,750 dd 203,390 1,150 1,400 1,250 1,250 1,250 6,580 6,750 nginia 40,200 1,1400 3,150 2,150 2,1750 1,400 2,1250 1,500 1,2400 <t< td=""><td>uth: Southeast:</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	uth: Southeast:															
46,240	Delaware	8 900	2.600	1.150	3.550	1.600	13.650	1.900	1.250	7.250	3.250	9.750	4.400	006	1.900	2,550
283,359 108,159 18,400 123,900 32,900 112,800 12,400 140,500 27,259 396,400 144,500 167,100 34,600 24,400 2	Maryland	48.250	29,450	4.250	11,400	3,150	46,700	21,750	4,050	14,250	6,650	63,500	36,850	3,600	11,050	12,000
a 95,800 60,900 7700 14,100 17,100 125,300 60,950 1,000 24,650 38,700 144,650 na 4,420 122,650 167,100 24,550 18,700 144,650 188,200 224,350 167,500 188,200 244,300 158,230 24,650 181,000 70,800 243,300 217,200 217	Virginia	283,350	108,150	18,400	123,900	32,900	292,950	112,800	12,400	140,500	27,250	396,400	180,300	006'9	132,000	77,200
462,059 167,100 34,050 224,350 36,559 434,700 158,250 24,650 181,000 95,800 420,850 732,200 217,800 36,750 444,250 39,350 444,700 158,250 34,650 181,000 95,800 283,800 733,220 217,800 36,700 444,250 39,350 444,250 30,650 13,000 174,100 35,800 328,300 2273,520 217,800 36,700 444,250 39,350 178,650 20,700 401,550 43,250 528,150 2273,520 745,300 130,200 1,224,350 175,800 22,127,750 119,150 90,050 1,134,800 268,750 2,127,100 114,800 68,650 990 13,100 32,150 110,000 69,650 1,300 1,300 17,300 175,800 175,800 155,000 85,650 14,000 266,050 13,000 1,300 1,300 17,300	West Virginia	92,800	006'09	700	14,100	17,100	125,300	60,950	000,1	24,650	38,700	144,650	006,99	1,050	23,150	53,550
374383 12,656 25,550 188,500 38,150 440,800 154,200 13,000 401,300 59,500 283,300 277,250 36,550 15,400 214,300 7,000 224,550 30,650 13,000 401,550 401,300 228,150 2,275,650 745,300 190,200 1,244,300 7,000 224,550 30,650 1,300 91,550 19,350 228,150 144,800 66,650 1,450 36,450 31,450 10,200 1,300 1,300 1,344,800 228,150 155,000 85,650 1,450 36,450 31,450 162,390 31,390 31,390 27,100 40,300 179,800 155,000 85,650 1,450 36,450 31,450 10,230 31,390 31,390 31,390 32,100 31,390 156,000 25,000 61,400 20,450 31,450 11,300 31,390 31,390 31,390 31,390 156,000 23,000 23,000 21,300 21,300 31,390 31,390 31,390 156,000 23,000 23,000 21,300 21,300 31,390 31,390 156,000 23,000 23,000 31,390 31,390 31,390 31,390 156,000 23,000 23,000 31,390 31,390 31,390 31,390 156,000 23,000 23,000 31,390 31,390 31,390 31,390 156,000 23,000 23,000 31,390 31,390 31,390 31,390 156,000 23,000 23,000 31,390 31,390 31,390 31,390 156,000 23,000 23,000 31,390 31,390 31,390 31,390 156,000 23,000 31,390 31,390 31,390 31,390 31,390 156,000 23,000 23,000 31,390 31,390 31,390 31,390 156,000 23,000 23,000 31,390 31,390 31,390 31,390 156,000 23,000 23,000 31,390 31,390 31,390 31,390 156,000 23,000 31,390 31,390 31,390 31,390 31,390 156,000 23,000 31,390 31,390 31,390 31,390 31,390 156,000 23,000 23,000 31,390 31,390 31,390 31,390 31,390 156,000 23,000 23,000 31,400 32,430 31,430	North Carolina	462,050	167,100	34,050	224,350	36,550	434,700	158,250	24,650	181,000	70,800	420,850	169,950	21,350	140,550	89,000
732,200 217,900 30,700 444,300 39,350 644,100 178,650 20,700 401,500 43,320 259,900 24,320 273,230 217,230 217,430 19,350 19,350 28,450 24,320 273,230 24,350 19,350 12,430 17,900 22,22,556 745,300 19,200 130,200 1,24,390 175,800 2,212,730 19,050 1,134,800 26,450 19,350 22,127,100 115,800 86,650 14,300 13,400 130,200 13,400 26,400 20,450 14,300 11,300 14,300 14,300 18,400 26,400 26,400 26,400 27,400 446,400 27,22,800 446,400 27,22,800 177,900 446,400 27,22,800 177,900 446,400 27,22,800 177,900 177,900 173,800 173,	South Carolina	374,850	122,650	25,550	188,500	38,150	400,800	154,200	13,000	174,100	59,500	283,900	71,950	12,800	150,050	49,100
2.275.659 745,300 130,200 1,224,359 175,800 2,212,759 719,159 90,059 1,134,800 268,759 2,127,100 115,800 86,650 900 13,100 32,159 110,000 69,650 1,300 7,000 32,050 175,800 175,800 115,200 185,200 15	Georgia	273.250	36.550	15.400	214,300	7,000	254.550	30,650	13.000	005,104	43,230	228.150	24.100	12,950	166.700	24,400
114,800 68,650 900 13,100 32,150 110,000 69,650 1,300 7,000 32,050 155,200	Total	2,275,650	745,300	130,200	1,224,350	175,800	2,212,750	719,150	90,050	1,134,800	268,750	2,127,100	720,800	79,150	976,300	350,850
114,800 68,680 990 13,100 32,150 110,000 69,650 1,300 7,000 32,050 155,200	South Central:															
155,000 85,600 1450 36,450 31,450 162,350 93,900 1,350 32,100 40,000 179,800 179,800 180,800 135,000 313,300 39,730 440,500 843,500 173,900 33,500 189,150 87,100 311,200 313,200 83,300 171,900 43,800	Kentucky	114,800	68,650	006	13,100	32,150	110,000	69,650	1,300	7,000	32,050	155,200	96,650	1,700	5,550	51,300
801,800 233,300 93,750 440,500 68,250 711,200 31,520 386,150 93,500 483,150 540,400 242,200 61,400 256,000 73,900 466,400 222,850 39,500 117,750 76,300 422,250 642,400 231,950 121,00 255,550 40,800 231,750 249,300 64,300 65,300 47,750 76,300 422,250 642,400 231,950 121,00 23,655 40,800 231,750 249,300 64,300 65,300 47,750 73,800 424,350 153,300 70,950 177,700 22,400 311,600 129,870 28,250 113,900 99,600 29,340 33,54,050 1234,550 376,800 1,404,250 38,450 2,812,250 1,175,300 207,500 418,250 2,342,850 48,250 48,250 2,4450 2,445,80 2,445,80 24,450 24,450 24,450 24,450 48,280 24,450	Tennessee	155,000	85,650	1,450	36,450	31,450	162,350	93,900	1,350	27,100	40,000	179,800	92,000	1,900	30,300	55,600
Octobroom 187,000 14,00 26,000 71,900 43,000 71,500 31,500	Alabama	801,800	233,300	59,750	440,500	68,250	711,200	211,300	33,250	386,150	80,500	483,150	169,150	11,100	228,850	74,050
24,000 12,100 12,100 12,500 13,500 14,500 12,500 1	Mississippi	610,900	189,600	61,400	286,000	73,900	483,650	173,900	33,500	189,150	87,100	371,250	139,400	7,900	131,000	92,950
C44,000 27,900 6,950 177,700 22,400 311,600 129,850 28,250 113,900 39,600 293,300 33,54,050 1,234,550 376,800 1,404,250 338,450 2,812,250 1,717,700 2,812,250 1,717,700 2,812,250 1,717,700 2,812,250 1,717,700 2,812,250 1,717,700 2,812,250 1,717,700 2,812,250 1,717,700 2,812,250 1,717,700 2,812,250 1,717,700 2,812,250 1,717,700 2,812,250 1,717,700 2,812,250 1,717,700 2,812,250 1,717,700 2,812,250 1,717,700 2,812,250 1,717,700 2,812,250 1,717,700 2,812,250 1,717,700 2,812,250 1,717,700 2,812,700	Arkansas	240,400	242,200	63,300	006,171	03,000	466,400	232,850	99,500	117,730	76,300	425,250	056,122	3,900	104,300	95,100
424,350 153,300 10,500 25,000 35,000 14,500 28,200 14,500 28,200 35,300 35,300 35,300 1234,500 153,800 14,404,250 38,4400 28,1200 11,77,000 22,400 31,75,000 28,200 11,77,000 28,400 28,200 11,77,000 28,400 28,400 28,400 11,77,000 14,404,250 38,400 28,400 28,400 11,77,000 14,404,250 38,400 28,400 11,77,000 14,400,450 11,77,000 14,400,450 11,77,000 14,400,450 11,77,000 14,400,450 11,77,000 14,400,450 11,77,000 14,400,450 11,400,	Oklahoma	64 400	23,930	6 950	23,330	40,800	35 300	14 550	05,730	103,430	15.450	050,185	007'9/1	000,8	149,550	47,230
3,354,050 1,234,550 376,800 1,404,250 338,450 2,812,250 1,175,300 207,450 1,011,250 418,250 2,342,850 courts (2,20 True of corrus) 3,200 2,000 (2,13,00) 2,000	Texas	424,350	153,300	70,950	177,700	22,400	311,600	129,850	28,250	113,900	39,600	293,300	146,150	6,550	80,700	55,900
0/01/10/2 0/20 20/1 (1/03/20/2 0/24/20/2 0/24/20/2 0/24/20/2 0/24/20/2 0/24/20/2 0/24/20/2 0/24/20/2 0/24/20/2	Total	3,354,050	1,234,550	376,800	1,404,250	338,450	2,812,250	1,175,300	207,450	1,011,250	418,250	2,342,850	1,060,500	41,200	732,200	508,950
3,629,700 1,979,830 307,000 2,628,600 314,230 3,023,000 1,894,430 297,300 2,146,030 067,000 4.469,950	Total, South	5,629,700	058,626,1	507,000	2,628,600	514,250	5,025,000	1,894,450	297,500	2,146,050	000,789	4 469 950	1.781.300	120.350	1.708.500	8 59.800

Table A-3.—Estimated volume of round timber products harvested in the United States, by major product, region, and State, 1972, 1967, and 1963—Continued (Thousand cubic feet)

Saw logs Veneer Pulpwood Other logs
39,100 12,650
42,400 14,109
6,550 700
100
1,350
64,550 2,100 17,800
2 2
, 250
655,300 88,050 34,250 55,400
000 631
1 004 150 539 200 98 500 37 200
77,000 37,000
, 25,500
, 150 , 200
2,687,050 770,250 314,100 121,250
3,342,350 858,300 348,350 176,650
5,897,750 1,389,700 3,644,250 950,000

Includes products such as poles and piling, fence posts, mine timbers, cooperage logs, and logs and bolts used for shingles, excetsior, and a wide assortment of other wood items.

Sources: Estimates based on data published by the U.S. Department of Commerce, Bureau of the Census in the 1963, 1967, and 1972 Censuses of Manufactures, annual issues of Bureau of the Census Current Industrial Reports series for timber products, and data collected by the Forest Service as a part of surveys of timber products output by State. 2 Less than 25 thousand cubic feet.

Table A-4.—Estimated value' of timber products harvested in the United States, by major product region and State, 1972, 1967 and 1963 (Thousand dollars)

Total Saw logs Vener Polywood Other Total Saw logs Vener Pulpwood 18,300 334 460 4,220 \$6,290 3,450 4,220 \$6,290 1,450 1,928 2,893 8,8130 18,300 1,800 8,800 2,900 1,000 4,900 2,893 8,3130 1,520 1,800 8,800 1,000 1,000 3,230 3,700 8,900 2,330 1,520 1,200 1,130 1,130 1,1300	Below Total Saw log Verser Pulpwood Other Total Saw log Verser Pulpwood Other Total Saw log Verser Pulpwood Other Total Tota				1972					1961					1963		
the theory (a graph of the control o	Persistant control of the control of	Region and State	Total	Saw logs	Veneer	Pulpwood	Other products ²	Total	Saw logs	Veneer logs	Pulpwood	Other products ²	Total	Saw logs	Veneer	Pulpwood	Other products ²
99,400 31,450 4,250 46,250 1450 10,900 10,900 19,250 2,89 3,81 sessebuserts 6,900 3,940 1,900 1,900 1,900 3,230 3,200 3,230 3,200 1,200 3,200 3,200 1,200 3,200 1,200 3,200 1,200 3,200 1,200 3,200 1,200 3,200 1,200 3,200 1,200 3,200 1,200 3,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200 1,200	1,540, 1,540,	h: vrtheast:															
15,400 15,300 15,300 1,400 1,000 1	1,500 1,50	Maine	99,400	35,450	4,250	56,250	3,450	86,300	19,250	2,850	58,150	6,050	59,300	13,300	3,350	36.800	5.850
1,540,0 2,500 2,900 2,900 2,900 2,900 2,300 2,	1,547 1,540 1,54	New Hampshire	19,300	13,900	-	4,100	1,050	10,900	4,950	•	4,200	1,300	11,750	6,450	-	3,000	1,850
Septiments Sep	testimetric field of the control of	Vermont	15,450	8,800	800	2,900	2,950	11,000	5,200	800	2,350	2,650	14,450	8,100	800	2,400	3,150
one fishind a 53.0 a. 1.830 a. 1.830 a. 1.320 a. 3.700 a. 900 a. 4.700 a. 4.200 a. 1.320 a. 1	1,2,20, 1,2,50 1,5,50 1,	Jassachusetts	006'9	2,900			550	9,050	3,700	-	,	4,750	7,300	3,400	•	•	3,400
Marchent 3-20 1-20 1-20 1-400 8-400 8-200 39-70 1-650 1-650 6-590 1-65	1,242 1,259 1,259 1,450 1,45	hode Island	650				- 0						800			•	
Person	We propried 97,200 1,400 1,840	onnecticut	3,250	1,850	, , , ,		,250	3,700	006		- !	2,600	5,300	1,000	•	•	4,100
Personal Processor Personal Processor Personal Processor Personal P	Page 25 Page	lew York	39,200	007,12	1,400	8,400	8,200	39,750	16,650	1,650	6,950	14,500	46,450	15,800	1,350	6,450	22,850
Control	Todal 124,200 12,000 18,300 13,190 18,000 13,090 88,790 21,600 21,100 21,000 21,000 21,000 21,000 21,000 21,100 21,000 21,100<	v Jersey ennsylvania	59,500	32,500	1,350	13,050	12,600	49,500	18,400	950	12,700	9,200	10,650	1,400	1.350	8.750	8,150
P. Central: 40,259 23,700 1,650 4,250 10,656 30,350 18,300 4,700 Inflam 40,259 15,700 2,800 1,400 16,650 30,350 18,300 18,700 1,100 necking 17,800 15,700 2,800 1,400 25,600 1,400 27,900 1,100 1,100 reconsist 76,390 18,300 24,700 1,200 25,500 1,100 1,100 1,100 reconsist 76,300 1,200 26,500 1,27,700 1,48,80 2,300 1,100 reconsist 75,900 1,090 27,700 1,48,80 3,00 1,200 23,800 refiberate 2,500 1,200 25,00 1,41,80 3,50 3,00 refiberate 2,500 1,200 27,00 1,41,80 3,50 3,00 refiberate 2,500 1,200 27,00 1,200 2,400 1,100 refiberate 2,500 1,200 <td>Heart 40,259 23,700 1,650 4,259 1,316 <</td> <td>Total</td> <td>248.200</td> <td>122.000</td> <td>8.200</td> <td>85.850</td> <td>32.150</td> <td>224.650</td> <td>73.050</td> <td>056.9</td> <td>85 950</td> <td>58 700</td> <td>216 600</td> <td>74 800</td> <td>7.450</td> <td>051.05</td> <td>76 200</td>	Heart 40,259 23,700 1,650 4,259 1,316 <	Total	248.200	122.000	8.200	85.850	32.150	224.650	73.050	056.9	85 950	58 700	216 600	74 800	7.450	051.05	76 200
New York												on the	Contora	0001	OCE.	001,00	007,67
1,100 1,10	Table Tabl	rth Central:	40.360	22.700	0371	030	000001	00000	004.01	0000							
17,800 12,800 12,800 13,900 13,190 13,190 14,500 1	treat: 17,800 12,500 2,500 14,700 15,700 17,	dion	057.00	15.700	0,000	1,400	000,01	30,330	10,300	000	700	0,550	24,130	14,700	820	2,750	5,85
trip baked signed signe	String S	linois	17 900	12,700	2,300	090,1	2,150	20,100	00711	0097	007,1	006'	051,11	7,300	2,200	1,150	6,500
reconsist 76,350 24,700 2,790 26,400 22,500 57,900 14,650 22,500 and merced a 2,500 10,900 2,790 26,400 14,150 660 2,100 24,800 and merced a 33,800 20,059 1750 26,400 12,100 20,059 17,900 12,100 20,059 17,900 12,100 20,059 17,900 12,100 20,059 17,900 12,100 20,059 17,900 12,100 20,059 17,900 12,100 20,059 17,900 12,100 20,059 17,900 12,100 20,059 17,900 12,100 20,059 17,900 12,100 20,059 17,900 12,100 20,059 17,900 12,100 20,059 17,900 12,100 10,050 17,900 12,100 10,050 17,	1,539 24,700 2,750 2,540 2,550 2,590 14,80 2,700 2,230 14,80 2,500 2,300 14,80 2,500 2,300 14,80 2,300 2,3	fichigan	000,11	33 700	000	26 500	057.01	63,600	0,200	1 750	001,1	19 500	059,21	7,200	900	1,350	3,300
Secondaria Sec	1,2,90 10,90 1,2,90 1,	Visconsin	76 350	24,700	2.750	26,500	22,500	000,000	14.850	2,730	22,000	18,600	91,000	17,100	0,400	10,700	27,850
wear source 9,500 4,800 1,250 5,700 6,100 2,100 650 5,700 ssourd braska 4,250 2,050 750 2,000 6,100 2,100 650 5,700 braska 4,250 2,550 750 1,200 1,450 1,450 1,500 1,500 braska 4,000 1,130 550 800 1,300 2,130 950 7 reast: 3,400 1,130 550 800 1,300 2,130 9,400 81,550 reast: 3,48,800 1,245 1,300 1,050 1,100 2,130 2,100 9,400 81,550 reast: 3,48,800 1,300 1,050 1,100 1,200 510,80 9,400 9,400 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500	9500 4,800 1,250 5,900 5,000 2,100 5,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000 1,4150 6,190 3,00 1,1200 2,130 2,130 1,130 2,130 1,130 2,130 1,130 2,130 1,130 2,130 1,130 2,130 1,130 2,130 1,130 2,130 1,130 2,130 1,130 2,130 1,130 2,130 1,130 2,130 1,130 2,130 1,130 2,130 1,130 2,130 1,130 <th< td=""><td>finnesota</td><td>20 900</td><td>10.900</td><td>6,14</td><td>22,700</td><td>13.850</td><td>50,300</td><td>050,41</td><td>2,3(0)</td><td>24,330</td><td>16,450</td><td>90,300</td><td>067,11</td><td>055,2</td><td>18,700</td><td>27,300</td></th<>	finnesota	20 900	10.900	6,14	22,700	13.850	50,300	050,41	2,3(0)	24,330	16,450	90,300	067,11	055,2	18,700	27,300
souri 131,800 20,050 750 900 12,100 26,600 14,110 600 10 10 10 10 10 10 10 10 10 10 10 10 1	sisouri 31,800 20,000 750 900 12,100 26,600 14,150 600 1,1500 26,600 braska 4,220 2,530 2,130 12,100 12,100 14,150 1,200 1,300 1,300 1,300 2,600 thraska 4,200 2,150 1,200 1,200 2,700 1,440 1,100 1,300 1,100 1,300 <t< td=""><td>wa</td><td>005 6</td><td>4 800</td><td>1 250</td><td>2005</td><td>2 900</td><td>00,00</td><td>2 100</td><td>059</td><td>008</td><td>2 850</td><td>007,40</td><td>001,1</td><td>000</td><td>10,730</td><td>25,73</td></t<>	wa	005 6	4 800	1 250	2005	2 900	00,00	2 100	059	008	2 850	007,40	001,1	000	10,730	25,73
trit Dakota 4,250 2,550 1, 950 750 3,700 1,400 1,950 1,000 Total A,000 1,350 550 800 750 3,700 1,400 1,400 1,500 1,000 Total A,000 1,350 550 800 1,300 1,300 2,350 1,900 1,400 1,400 1,400 1,400 1,300 1,500 1,200 1,300 1,200 1,300 1,200 1,200 1,200 1,300 1,200	with Dakota 4,250 2,550 950 750 1,450 1,500 1,300 1,350 custs 2,900 2,150 950 750 1,400 1,400 1,300 1,350 custs 2,900 2,150 950 750 1,400 1,400 1,300	lissouri	33.800	20.050	750	006	12,100	26.600	14 150	009	200	11 500	9,130	1,600	Q 9		15,33
threakia 4,250 2,550 1, 950 750 3,700 1,450 1, 950 breaska 2,900 2,150 1, 900 2,150 1, 900 1, 900 total 4,000 2,150 550 800 1,300 2,700 1,440 1 Total 3,900 1,300 2,1250 1,500 2,700 1,400 9,400 9,400 1,500 1,500 feast: 3,900 1,300 1,050 1,100 1,500 1,100 500 500 500 1,500 1,500 grainal 16,900 27,450 1,300 1,050 1,100 1,500	the Dakota 2,990 2,1550 1 99 170 3,700 1,450 1 99 1,300 2,330 1,300 2,330 1,30	orth Dakota		-	•	-	-	•	-	-	•	-	-	-	-		1
Total North	braska 2,900 1,1350 550 80 1,30 1,20 1,30 1,30 1,30 1,30 1,30 1,30 1,30 1,3	outh Dakota	4,250	2,550	•	950	750	3,700	1,450		950	1,300	1,350	3	•	009	75(
Total North S97,000 152,450 13,090 80,450 92,850 810,850 171,950 16,550 170,800 152,450 13,090 80,450 92,850 286,200 98,900 9,400 81,550 170,410 170,400 170,4	Total 348,800 152,450 11305 98,04 1,1300 2,130 99,94 11,190 152,450 113,050 99,480 11,190 11,	lebraska	2,900	2,150	- !			2,700	1,400		•	1,200	2,350	750	•	•	1,550
Total North S97,000 274,450 13,050 90,450 92,850 286,200 98,900 9,400 81,550 Total North S97,000 274,450 121,250 176,300 125,000 155,000 155,000 155,000 1,0	Total 398,800 152,450 13,050 90,450 92,850 171,950 16,350 15,500 96,350 273,800 104,800 105,000 12,00	ansas	4,000	1,350	550	800	1,300	2,350	950		1	1,100	1,950	1	200	•	1,200
Total, North S97,000 274,450 21,250 176,300 125,000 510,850 171,950 16,350 167,500 1 1	Total, North S97,000 274,450 21,250 116,300 125,000 510,850 171,950 16,350 167,500 155,050 490,400 1 1	Total	348,800	152,450	13,050	90,450	92,850	286,200	006'86	9,400	81,550	96,350	273,800	84,950	10,200	65,150	113,500
Heast: 3,900 1,300 1,050 1,100 1,410 500 500 550 1,900 anyland 16,900 57,600 1,800 34,300 1,450 14,950 6,150 2,050 4,550 1,900 anyland 16,900 57,600 18,800 34,750 14,900 6,150 5,900 4,500 anythe Carolina 199,400 57,800 15,800 34,750 12,700 17,100 6,000 4,550 anyth Carolina 199,400 95,000 27,800 6,3,850 12,700 122,500 17,150 6,000 4,500 anyth Carolina 199,200 17,600 22,350 14,200 14,200 10,750 4,500 4,500 anyth Carolina 304,500 13,1400 22,350 13,1400 10,250 10,2800 andth Central: Hody State Carolina 199,350 10,000 15,800 10,750 10,2800 andth Central: Hugh State Carolina 199,350 10,000 15,800 10,750 10,2800 andth Central: Hugh State Carolina 22,370 1,100 10,370 8,300 28,250 11,250 39,400 28,370 andth Central: Hugh State Carolina 22,370 1,100 10,350 8,300 22,450 11,000 10,250 10,800 10,250 10,800 10,250 10,800 10,250 10,250 10,800 10,250 10,800 10,250 10,800 10,250 10,800 10,25	Heast: 3,900 1,300 1,050 1,050 1,050 1,000 1,450 1,450 5,150 2,000 5,50 1,900 1,130 2,900 1,900 1,130 1,000 1,900 1,130 1,130 2,900 1,900 1,130 1,130 2,900 1,900 1,131 1,130 1,131 1,130 1,131 1,130 1,131 1,130 1,130 1,131 1,130 1,131 1,130 1,131 1,130 1,131 1,130 1,131 1,130 1,131 1,130 1,131 1,130 1,131 1,130 1,131 1,130 1,131 1,130 1,131 1,130 1,131 1,130 1,131 1,130 1,131 1,130 1,131 1,131 1,130 1,131 1,130 1,131 1,131 1,130 1,131 1,130 1,131 1,130 1,131 1,131 1,130 1,131 1,130 1,131 1,131 1,131 1,131 1,130 1,131 1,130 1,131 1,131 1,130 1,131 1,130 1,131 1,130 1,131 1,131 1,130	Total, North	597,000	274,450	21,250	176,300	125,000	510,850	171,950	16,350	167,500	155,050	490,400	159,750	17,650	124,300	188,700
## 3,900 1,300 1,100 1,450 1,100 1,450 1,4	## 3,900 1,300 1,300 1,100 1,450 1,450 1,450 1,450 2,050 3,4,00 2,200 1,000 ## 24,450 1,4850 3,850 4,300 1,450 1,450 14,950 3,4,70 3,4																
a 195,940 14,850 14,850 4,350 14,70 14,950 15,050 25,050 1	24450 14850 31850 4300 1450 1450 6,150 2,050 1,570	itheast:	3 900	1 300	1 050	901	-	91.00	8	020	500	9	000 €	-			
116,900 57,600 15,800 34,750 8750 79,700 37,750 5,550 34,400 199,400 57,800 57,800 58,900 4,500 4,500 199,400 57,800 27,800 54,500 54,500 17,150 50,00 4,500 199,400 71,165 27,320 54,500 54,500 10,500 17,150 50,200 4,500 199,400 71,165 72,320 74,500 12,200 10,500 10,500 4,500 104,450 22,350 13,4200 17,00 18,500 5,200 7,500 10,200 104,450 22,350 13,050 66,400 2,650 71,000 9,450 5,550 5,200 7,500 24,800 35,750 1,100 3,350 8,300 39,450 23,650 6,200 5,300 24,800 35,750 1,100 9,350 8,300 39,450 23,650 6,200 1,200 25,150 120,000 32,850 44,300 19,700 119,800 62,400 1,030 24,900 26,220 126,450 60,660 60,660 60,660 1,700 8,300 17,300 25,130 13,900 3,4350 44,300 19,700 119,800 63,400 1,000 118,300 83,200 43,550 45,800 5,750 78,300 35,950 12,400 118,300 632,400 21,350 35,720 10,0200 70,2650 31,770 63,470 10,000 118,300 632,400 21,350 357,200 10,0200 70,2650 31,770 63,770 11,00,300 11,000 11,000 10,0200 10,0200 10,0200 10,0200 10,000 118,300 632,400 21,350 357,200 10,0200 70,2650 31,770 10,000 118,300 11,300 13,900 13,900 10,0200 10,	16,900 57,600 15,800 34,750 34,750 34,750 34,750 34,700 34,750 34,700 34,750 34,700 34,750 34,700 3	faryland	24.450	14.850	3.850	4.300	1 450	14 950	000	2 050	1,900	2 200	2,900	000,1	007	030 6	3.30
a 36,100 27,850 650 2,850 4,750 12,200 17,150 600 4,500 ma 199,400 27,850 2,880 12,700 122,500 48,00 10,700 48,600 43,600 43,600 ma 199,200 71,650 23,200 12,200 112,500 48,000 10,730 43,600	a 51,00 27,850 60,00 27,850 64,500 4,500 9,950 34,000 ina 199,400 95,400 27,880 63,880 12,700 12,200 41,500 4,500 9,950 34,000 ina 199,400 95,050 27,800 12,700 12,200 48,000 10,500 4,500 4,500 14,000 10,700 10,700 10,500 4,7330 6,200 4,500 14,300 17,700 10,700 185,000 17,300 14,300 17,300 14,300 17,300 14,300 17,300 14,300 17,300 14,300 17,300 14,300 17,300 14,300 17,300 14,300 17,300 14,300	'irginia	116,900	57,600	15,800	34,750	8,750	79.700	33.750	5.950	33.400	009 9	93,600	46 900	006,1	050,50	16.75
199,240 95,059 27,880 63,859 12,700 122,500 48,000 10,750 43,650 199,220 71,650 22,330 134,200 75,650 10,500 47,530 64,200 42,650 104,430 22,339 13,039 66,400 2,659 71,000 9,450 5,559 50,300 104,430 22,339 13,039 66,400 2,659 71,000 9,459 5,559 50,300 104,430 22,339 107,730 361,939 57,600 620,000 217,559 39,400 283,730 41,850 30,050 35,730 11,100 9,339 8,300 39,440 23,659 6,000 5,700 228,730 12,800 37,700 11,800 22,459 116,600 77,659 10,200 228,730 12,280 37,700 11,880 22,459 11,600 47,500 228,730 12,430 13,500 44,300 19,700 11,980 68,300 24,900 22,130 13,900 43,559 45,800 5,759 78,300 35,999 31,200 1,18,300 83,200 43,550 45,800 5,759 78,300 35,999 31,750 11,800 1,18,300 83,200 213,500 357,200 100,200 70,259 31,770 63,730 24,000 1,18,300 83,200 213,500 357,200 100,200 702,959 31,770 63,730 21,2400 1,18,300 13,900 213,500 213,500 20,000 20,000 20,000 1,18,300 13,900 13,900 21,300 21,300 21,740 10,000 1,18,300 13,900 13,900 13,900 24,500 10,000 1,18,300 13,900 13,900 21,300 21,300 21,400 10,000 1,18,300 13,900 13,900 13,900 24,900 24,000 1,18,300 1,18,000 1,18,000 1,18,000 1,17,000 1,17,000 1,18,300 1,18,000 1,18,000 1,18,000 1,17,000 1,18,000 1,	159,200 21,650 21,800 64,508 12,550 12,550 10,750 10,750 44,650 20,150 104,700 10,750 104,700 10,750 11,050	Vest Virginia	36,100	27,850	650	2,850	4,750	32,200	17,150	009	4.500	056 6	34 000	16,000	2005	4 100	13.40
195,200 71,659 23,200 54,500 9,850 110,500 47,320 6,200 42,650 194,500 11,650 23,320 134,200 17,000 185,050 5,200 7,590 104,450 22,350 13,050 66,400 2,650 71,000 9,450 5,550 012,800 24,850 30,050 10,750 361,950 57,660 620,000 217,550 39,400 283,750 24,850 35,750 1,100 9,350 8,300 39,450 23,650 6,200 1,200 25,700 22,800 37,700 11,800 22,450 11,400 72,650 10,800 83,200 25,700 10,050 31,350 44,300 19,700 119,800 62,400 10,300 32,900 25,120 16,450 60,660 60,660 45,500 17,700 119,800 63,400 12,000 1,18,300 83,200 43,559 45,800 5,759 13,500 35,759 13,500 32,400 1,18,300 632,400 21,350 357,200 10,020 70,259 31,750 63,750 12,400 1,18,300 632,400 21,350 357,200 100,200 70,259 31,770 63,750 12,400 1,18,300 632,400 21,350 357,200 100,200 70,259 31,770 63,750 12,400 1,18,300 13,200 13,200 13,200 10,00,200 10,020 10,000 1,18,300 1,18,00 1,18,00 1,18,00 1,18,00 1,17,00 1,18,300 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,300 1,18,00 1,18,00 1,18,00 1,18,00 1,18,300 1,18,00 1,18,00 1,18,00 1,18,00 1,18,300 1,18,00 1,18,00 1,18,00 1,18,00 1,18,300 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,300 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,300 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,300 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,300 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,300 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,300 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,300 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,300 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1,18,00 1	194,520 131,460 22,330 14,420 110,800 47,330 6,320 4,365 6,320 14,300 6,775 12,320 13,430 6,730 14,300 14,	Jorth Carolina	199,400	95,050	27,800	63,850	12,700	122,500	48,000	10,750	43,650	20,100	104,700	45,550	8,200	29,200	21.75
104,459 131,440 22,339 134,200 17,000 185,059 55,200 7,759 102,800 104,459 22,339 131,059	104450 131,400 125,350 14,400 15,600 15,600 15,600 10,400 15,600 15,600 10,400 10,400 15,600 10,400	outh Carolina	159,200	71,650	23,200	54,500	9,850	110,500	47,350	6,200	42,650	14,300	67,750	19,550	5,400	31,700	11,100
494,350 422,050 19,750 361,950 57,607 620,000 217,550 5,550 30,300 494,350 422,050 107,750 361,950 57,607 620,000 217,550 39,400 283,750 41,850 30,056 750 2,750 8,300 28,450 57,609 600 57,700 283,770 298,770 12,800 37,700 115,800 22,450 174,609 75,550 83,200 57,700 228,700 100,229 33,530 24,430 19,700 119,800 62,400 11,050 24,900 26,2,200 13,900 3,600 60,600 47,550 117,750 49,900 25,150 13,900 3,600 5,600 1,700 8,800 24,900 25,150 13,900 3,600 5,700 1,700 8,700 1,000 118,300 33,000 3,600 5,700 1,700 8,800 24,900 25,150 13,900 43,500 45,8	1949-330 422,030 107,730 361,930 57,600 620,000 217,550 39,400 283,730 79,300 53,800 44,800 422,030 107,730 361,930 57,600 620,000 217,550 39,400 283,730 79,300 383,350 22,830 37,200 115,800 22,830 37,200 37,	Jeorgia	304,950	131,400	22,350	134,200	17,000	185,050	55,200	7,750	102,800	19,300	156,850	45,900	6,550	77,450	26,950
949,359 422,059 107,759 361,959 57,660 620,000 217,559 39,400 283,750 41,850 36,056 1,100 9,339 8,300 28,459 57,659 660 5,700 228,750 1,100 9,339 8,300 39,459 23,659 660 5,700 228,750 12,800 37,700 11,600 9,339 8,300 39,459 23,659 660 5,700 228,700 100,250 31,530 12,660 14,600 77,559 10,850 83,200 26,220 120,000 32,850 44,300 19,700 119,800 62,400 11,090 24,900 26,130 13,900 3,600 60,600 14,550 117,730 40,000 12,900 118,300 83,200 43,559 45,800 5,759 78,300 35,99 8,800 24,050 1,303,300 632,400 213,500 100,200 702,959 317,750 12,400 11,000 </td <td>949,339 422,050 107,750 361,950 57,600 217,550 39,440 283,750 79,300 33,600 34,500 31,500 34,500 3</td> <td>80.00</td> <td>oct to</td> <td>000,22</td> <td>000,01</td> <td>00,400</td> <td>7,630</td> <td>71,000</td> <td>7,430</td> <td>066,6</td> <td>50,300</td> <td>2,700</td> <td>26,800</td> <td>6,650</td> <td>4,950</td> <td>37,750</td> <td>7,450</td>	949,339 422,050 107,750 361,950 57,600 217,550 39,440 283,750 79,300 33,600 34,500 31,500 34,500 3	80.00	oct to	000,22	000,01	00,400	7,630	71,000	7,430	066,6	50,300	2,700	26,800	6,650	4,950	37,750	7,450
41,850 30,050 750 2,750 8,300 28,250 18,800 650 1,200 54,500 15,280 31,750 1,100 9,350 8,300 17,450 21,450 21,450 650 57,000 2225,700 100,250 313,350 21,2650 19,450 116,800 62,460 11,050 225,700 100,250 313,350 21,2650 19,450 116,800 62,400 11,050 22,400 11,26,450 60,600 60,600 19,700 119,800 62,400 11,050 24,900 25,150 11,500 3,600 60,600 60,600 11,700 11,980 63,400 11,050 24,900 32,150 11,900 3,600 5,950 11,700 11,700 13,590 83,500 24,000 11,83,300 632,400 21,1500 35,720 11,300 35,720 11,200 35,720 11,700 11,200 31,750 61,350 21,2400 11,83,300 632,400 21,15,00 35,720 100,200 100,200 702,959 317,750 63,750 21,2400 11,900 35,720 100,200 31,750 61,750 21,2400 11,900 31,750 61,750 21,7400 11,900 31,750	44,850 30,950 750 2,750 8,300 28,250 18,800 659 1,200 7,600 34,950 225,700 10,228 37,70 1,100 9,330 8,300 19,450 23,660 660 57,00 9,500 18,800 20,300 20,300 22,450 17,200 115,800 22,450 17,200 115,800 22,450 11,4050 57,550 10,850 83,200 22,450 13,350 225,700 100,220 33,350 22,570 10,250 33,350 22,570 10,500 20,300 20,300 20,300 20,300 22,500 12,500 20,300 20,300 20,300 20,300 22,510 22,510 13,900 36,000 59,00 11,500 59,00 11,500 20,400 11,050 20,400 14,510 87,250 22,150 11,500 20,300 35,500 12,500 20,300 11,500 20,300 11,500 20,300 11,500 20,300 11,500 20,300 11,500 20,300 100,200 20,300 11,500 20,300 100,200 100,200 100,200 100,200 100,200 100,200 10,	Total	949,350	422,050	107,750	361,950	609,75	620,000	217,550	39,400	283,750	79,300	533,600	190,600	30,450	210,750	101,800
44,807 44,897 60,009 750 2,750 8,300 28,250 18,800 650 1,200 254,500 35,750 1,100 9,350 8,300 39,450 21,650 660 57,000 226,570 100,250 313,700 115,800 224,600 174,600 715,600 60,000 225,700 100,250 313,300 15,800 120,600 60,600 19,450 16,600 47,050 9,520 10,850 81,200 225,700 100,250 13,850 44,300 19,450 116,800 64,600 115,800 64,500 115,800 64,500 115,800 64,500 115,800 64,500 115,800 64,500 115,800 64,500 115,800 64,500 115,800 64,500 115,800 64,500 115,800 64,500 115,800 64,500 115,800 64,500 115,800 64,500 115,800 64,500 11,800 64,500 64,	41,850 34,000 34,500 3	ith Central:	030	0.00													
24,570 1,100 9,350 8,300 39,450 21,550 1,100 9,370 1,100 225,700 225,700 1,100 225,700 1,100 225,700 100,250 31,370 12,800 21,2800 31,700 12,800 22,500 13,350 12,800 24,300 19,450 116,600 47,050 9,250 94,400 21,850 126,450 60,600 44,500 119,700 62,400 11,050 24,900 24,900 25,150 13,900 34,600 25,900 17,750 63,350 22,350 24,900 17,8300 31,200 43,500 43,500 43,500 34,500 34,500 34,500 37,750 34,500 34,500 34,500 37,750 34,300 34,500	284,700 122,800 37,700 115,800 22,450 14,000 9,500 8,330 9,540 15,800 8,500 8,500 9,	entucky	41,850	30,050	750	2,750	8,300	28,250	18,800	650	1,200	7,600	34,950	22,050	750	850	11,300
225,700 100,250 313,500 15,800 22,450 174,050 176,50	253,700 100,259 33,350 72,450 19,450 174,050 575,550 10,859 83,300 22,450 107,750 225,700 100,250 33,350 72,450 19,450 119,6600 47,050 92,250 39,400 21,900 80,200 80,200 22,500 21,500	ennessee	26,500	35,750	1,100	9,350	8,300	39,450	23,650	009	5,700	9,500	38,350	008'61	750	5,700	12,100
2.25,100 101,209 313,50 72,550 19,450 116,600 47,050 9,250 39,400 2.62,200 126,630 66,600 66,600 14,550 137,750 68,350 21,350 23,950 2.51,50 13,900 3,600 5,950 1,700 8,750 4,000 1,000 178,300 83,200 44,550 45,800 5,750 78,300 35,950 1,000 1,303,300 632,400 21,350 357,200 10,200 72,590 31,750 63,750 24,050	216.80 120,000 32,830 44,300 19,700 116,600 47,050 9,520 39,400 20,900 86,200 20,800 2	Nabama	298,750	122,800	37,700	115,800	22,450	174,050	57,550	10,850	83,200	22,450	107,750	40,950	3,200	44,050	19,550
262,200 126,450 66,600 66,600 19,700 119,800 16,530 22,350 24,900 17,530 66,350 25,200 126,450 66,600 66,600 17,500 11,500 62,400 11,500 126,400 13,500 126,400 126,400 126,400 126,400 126,400 126,400 126,400 126,400 126,500 17,500 100,200 170,2950 17,750 63,750 12,1500 121,500 100,200 100,200 170,2950 17,750 63,750 1212,400 1	25,200 126,450 60,600 60,600 14,550 14,100 19,100 62,400 11,050 24,900 21,450 97,100 97,100 25,150 13,900 3,600 5,950 1,700 14,550 4,000 3,590 1,700 35,950 4,000 3,590 1,100 35,50 1,100 1,	ddississippi	007,627	130,000	33,350	72,650	19,450	116,600	47,050	9,250	39,400	20,900	80,200	33,450	1,950	24,350	20,450
25,540 13,960 3,600 14,520 13,070 13,520 24,520 24,520 17,000 13,500 13,500 24,520 100,200 702,959 317,750 63,750 63,750 63,750 702,959 317,750 63,750 12,5400 100,200 702,959 317,750 63,750 712,400 100,200 702,950 717,750 63,750 712,400 100,200 702,950 717,750 63,750 712,400 100,200 702,950 717,750 712,750 712,400 100,200 702,950 717,750 712,750 712,740 712,750 71	25,150 13,000 3,600 5,950 1,700 13,750 63,750 24,300 14,100 87,250 14,100 87,250 13,8	Arkailsas	263,030	120,000	32,830	44,300	00//61	119,800	62,400	11,050	24,900	21,450	97,100	52,150	950	19,700	24,300
178,300 83,200 43,550 45,800 5,750 78,300 35,950 8,800 24,050 1,003,300 632,400 213,500 357,200 100,200 702,950 317,750 63,750 212,400	18,300 8,320 4,540 4,540 5,750 7,750 7,750 8,800 2,150 5,750 1,1	Oklahoma	25 150	13 900	3,600	009,000	14,550	0.750	4 000	22,350	32,950	14,100	87,250	43,150	1,950	27,100	15,050
1,303,300 632,400 213,500 357,200 100,200 702,950 317,750 63,750 212,400	59wth 2,252,650 1,054,450 312,250 179,150 157,800 1,322,950 317,750 496,150 188,350 1,057,600 4	[exas	178,300	83,200	43,550	45,800	5,750	78,300	35,950	8,800	24,050	9,500	66,550	36.250	009.1	15.200	6,750
	2,222,650 1,054,450 321,250 719,150 157,800 1,322,950 535,300 103,150 496,150 188,350 1,057,600	Total	1,303,300	632,400	213,500	357,200	100,200	702,950	317,750	63,750	212,400	109.050	524.000	252.500	11.200	137.300	123.900
2.000 1064 460 1064 460 106 106 106 106 106 106 106 106 106 1	1,924,930 1,024,430 1,024,150 1,024,150 1,027,600 1,027,600 1,037,500 1,037,600	Total Court	1 163 660	1 064 460	030 100	000	000										

Table A-4.—Estimated value' of timber products harvested in the United States, by major product region and State, 1972, 1967 and 1963 (Thousand dollars)

Dogion			1972			1961					1963				
and State	Total	Saw logs	Veneer logs	Pulpwood	Other products ²	Total	Saw logs	Veneer	Pulpwood	Other products ²	Total	Saw logs	Veneer logs	Pulpwood	Other products ²
South															
Southeast:								;							
Delaware	3,900	1,300	1,050	001,1		4,100	200	550	006,1	1,150	2,900	0001		1,100	0000
Maryland	24,450	14,850	3,850	24.750	0,450	14,950	0,150	2,050	4,550	2,200	00,70	9,050	009,1	3,050	3,300
West Winding	16,200	000,75	009,01	04,750	4.750	32,700	17,50	0,430	005,400	0000	37,000	16,000	2,700	4 100	13,400
west virginia	36,100	060,12	37 800	2,630	4,730	32,200	0000	000	4,300	001.00	34,000	10,000	900	9,100	13,400
South Carolina	159,400	050,050	23,200	54 500	0.850	110 500	47 350	6,200	42,650	14 300	057.750	10.550	8,400	29,200	05/17
South Carollia	304 950	131 400	22,200	134 200	000,71	185 050	55 200	7.750	102 800	10,300	156.850	45 900	055.9	77.450	26.950
Florida	104,450	22,350	13,050	66,400	2,650	71,000	9,450	5,550	50,300	5,700	56,800	6,650	4,950	37,750	7,450
Total	949,350	422,050	107,750	361,950	57,600	620,000	217,550	39,400	283,750	79,300	533,600	190,600	30,450	210,750	101,800
South Central:														in the second se	
Kentucky	41,850	30,050	750	2,750	8,300	28,250	18,800	059	1,200	2,600	34,950	22,050	750	820	11,300
Tennessee	54,500	35,750	1,100	9,350	8,300	39,450	23,650	009	5,700	6,500	38,350	19,800	750	5,700	12,100
Alabama	298,750	122,800	37,700	115,800	22,450	174,050	57,550	10,850	83,200	22,450	107,750	40,950	3,200	44,050	19,550
Mississippi	225,700	100,250	33,350	72,650	19,450	116,600	47,050	9,250	39,400	20,900	80,200	33,450	1,950	24,350	20,450
Arkansas	216,850	120,000	32,850	44,300	19,700	119,800	62,400	11,050	24,900	21,450	97,100	52,150	950	19,700	24,300
Louisiana	262,200	126,450	009'09	009'09	14,550	137,750	4 000	22,350	32,950	14,100	87,250	43,150	1,950	27,100	15,050
Oklahoma	25,150	13,900	3,600	2,930	6 750	8,750	35 950	8 800	24 050	9,550	11,850	36.750	1 600	16 200	05,730
LCAdo	000,011	003,00	00000	000101	00110	000,01	00000	0,000	00017	OOC'S	00000	00,200	2001	007101	000,01
Total	1,303,300	632,400	213,500	357,200	702,950		317,750	63,750	212,400	109,050	524,000	252,500	11,200	137,300	123,9000
Total, South	2,252,650	1,054,450	321,250	719,150	157,800	1,322,950	535,300	103,150	496,150	188,350	1,057,600	443,100	41,650	348,050	224,800
West:															
Mountain:	000		00000	000	000	047.60	11 400	000	0.00	007	000	000	0000	0	00.
Montana	100	137,250	25,500	2,700	2,000	94,650	70,400	14,800	2,830	2,600	006,69	03,950	9,300	050	2,100
Wwoming	21 200	16.500	4 250	050,5	2,900	069,111	06967	23,600	3,230	2,930	4 950	4 800	2,230	ge ^	2,050
Colorado	16,300	14,650		,	1.600	9.700	9.100	-	•	550	10,650	006.6	-		700
New Mexico	23,950	21,450	•	1	2,200	12,900	10,700	1	•	1,900	13,850	12,250	-	•	1,600
Arizona	41,400	36,600	•	950	3,850	28,400	24,300	-	1,000	3,100	19,650	17,600	-	900	1,150
Utah	4,650	4,400				3,150	2,900				3,850	3,600			-
		200	4			ocot.	2011	100	000		0001	ocot-			0000
Lotal	465,150	375,200	69,500	057'/	13,200	7/1,/00	209,300	42,900	/,/00	11,800	050,/02	183,050	11,550	2,350	8,100
Pacific:	040 660	000 207	037 071	46.160	00 100	174 700	007 300	033 01	000 04	0	241 700	20, 510	030	900	030 00
Oregon	1.435.700	764.300	626.700	29.700	15.000	716.900	371 650	303 000	28.850	13 400	804 550	455 450	321 300	14 450	13 350
California	630,950	\$28,050	84.050	001.11	7.750	278.450	217.600	45.100	10.300	5.450	306.750	252.900	48.500	800	4.550
Alaska	38,050	33,050	ŕ	2,000	-	13,750	8,800	,	4,950		11,600	3,850		7,750	-
Hawaii	-	6	1	1	1	-	1	-	,	-	-		-	-	
Total	3,045,600	2,012,400	890,700	90,950	51,550	1,434,000	883,450	418,650	84,000	47,900	1,464,750	925,700	427,650	64,600	46,800
Total, West	3,510,750	2,387,600	960,200	98,200	64,750	1,705,700	1,092,750	461,550	91,700	59,700	008,179,1	1,110,750	439,200	096,999	54,900
Total, United States	6,360,400	3,716,500	1,302,700	993,650	347,550	3,539,500	1,800.00	581,050	755,350	403,100	3,219,800	1,713,600	498,500	539,300	468,400

· Value at local points of delivery.

Includes products such as poles and piling, fence posts; mine timbers; cooperage logs; logs and bolts used for shingles, excelsior, and a wide assortment of other wood items: Christmas trees; maple sap; and pine

Less than 500 thousand dollars.
Sources: Estimates based on the volumes shown in Table A-3 and estimated delivered values contained in various State reports on forest product prices and price data collected by the Forest Service.

Table A-5.—Estimated value of timber products harvested, value added, and value added attributed to timber in harvesting in the United States, by region and State, 1972, 1967, and 1963

		1972			1967			1963	
Region and State	Value	Value added	Value added attributed to timber	Value	Value added	Value added attributed to timber	Value	Value added	Value added attributed to timber
North:							-		
Northeast: Maine	99,400	44,400	44,400	86,300	40,900	40,900	59,300	24,350	24,350
New Hampshire	19,300	6,700	6,700	10,900	4,450	4,450	11,750	3,050	3,050
Vermont	15,450	6,550	6,550	11,000	6,050	6,050	14,450	7,100	7,100
Massachusetts	6,900	2,950	2,950	9,250	4,250	4,250	7,300	2,850	2,850
Rhode Island Connecticut	650 3,250	1,350	1,350	3,700	1,700	1,700	800 5,300	2,050	2,050
New York	39,200	20,450	20,450	39,750	21,150	21,150	46,450	27,800	27,800
New Jersey	4,550	3,150	3,150	14,000	7,600	7,600	10,650	5,700	5,700
Pennsylvania	59,500	32,200	32,200	49,500	27,200	27,200	60,600	29,300	29,300
Total	248,200	118,000	118,000	224,650	113,550	113,550	216,600	102,500	102,500
North Central:	40.250	18.200	10.200	20.250	15 400	15 400	24.150	12 100	12 100
Ohio Indiana	40,250 24,750	18,200 12,250	18,200 12,250	30,350 22,100	15,400 11,350	15,400 11,350	24,150 17,150	12,100 8,500	12,100 8,500
Illinois	17,800	8,850	8,850	20,100	8,800	8,800	12,650	6,350	6,350
Michigan	81,850	42,800	42,800	63,600	37,750	35,750	61,600	34,240	34,250
Wisconsin	76,350	37,100	37,100	57,950	27,800	27,800	60,300	28,650	28,650
Minnesota Iowa	52,900 9,500	25,700 4,850	25,700 4,850	50,300 6,100	24,150 2,850	24,150 2,850	59,200 6,150	25,550 3,950	25,550 3,950
Missouri	33,800	17,100	17,100	26,600	12,450	12,450	26,600	16,950	16,950
North Dakota	2	2	:	2	2	2	2	2	2
South Dakota	4,250	2,200	2,200	3,700	1,750	1,750	1,350	500	500
Nebraska Kansas	2,900 4,000	1,500 2,050	1,500 2,050	2,700 2,350	1,300 1,100	1,300 1,100	2,350 1,950	850 700	850 700
Total	348,800	172,850	172,850	286,200	142,850	142,850	273,800	138,550	138,550
Total, North	597,000	290,850	290,850	510,850	256,400	256,400	490,400	241,050	241,050
South:						/			
Southeast:									
Delaware	3,900	1,950	1,950	4,100	2,600	2,600	2,900	1,400	1,400
Maryland	24,450	11,950	11,950	14,950	9,450 42,900	9,450 42,900	17,000 93,600	9,300 51,050	9,300 51,050
Virginia West Virginia	116,900 36,100	58,800 17,050	58,800 17,050	79,700 32,200	18,200	18,200	34,000	15,450	15,450
North Carolina	199,400	91,500	91,500	122,500	69,250	69,250	104,700	50,100	50,100
South Carolina	159,200	86,600	86,600	110,500	58,650	58,650	67,750	30,950	30,950
Georgia	304,950	145,450	145,450	185,050	92,900	92,900 37,250	156,850	74,400	74,400 28,650
Florida Total	104,450 949,350	48,500 461,800	48,500 461,800	620,000	37,250 331,200	331,200	56,800	28,650	261,300
South Central:									
Kentucky	41,850	20,400	20,400	28,250	14,700	14,700	34,950	18,200	18,200
Tennessee	54,500	26,450	26,450	39,450	18,850	18,850	38,350	18,300	18,300
Alabama	298,750	164,950	164,950	174,050	91,400	91,400	107,750	56,550	56,550
Mississippi	225,700	107,700	107,700	116,600	53,050	53,050	80,200	36,500	36,500 46,450
Arkansas Louisiana	216,850 262,200	98,000 145,300	98,000 145,300	119,800 137,750	57,300 62,950	57,300 62,950	97,100 87,250	46,450 39,850	39,850
Oklahoma	25,150	11,500	11,500	8,750	4,100	4,100	11,850	5,550	5,550
Texas	178,300	64,900	64,900	78,300	39,400	39,400	66,550	33,450	33,450
Total	1,303,300	639,200	639,200	703,950	341,750	341,750	524,900	254,850	254,850
Total, South	2,252,650	1,101,000	1,101,000	1,322,950	672,950	672,950	1,057,600	516,150	516,150
West:									
Mountain: Montana	171,700	94,950	94,950	94,650	50,850	50,850	65,900	30,300	30,300
Idaho	184,900	76,900	76,900	111,650	53,300	53,300	86,050	40,800	40,800
Wyoming	21,200	11,500	11,500	9,600	5,400	5,400	4,950	2,850	2,850
Colorado	16,300	8,200	8,200	9,700	5,500	5,500	13,850	6,250	6,250
New Mexico	23,950	15,950	15,950	12,900 28,400	9,150 19,750	9,150 19,750	13,950 19,650	8,650 9,050	8,650 9,050
Arizona Utah	41,400 4,650	28,750 2,250	28,750 2,250	3,150	1,500	1,500	3,850	1,850	1,850
Nevada	1,050	500	500	1,650	800	800	2,150	1,050	1,050
Total	465,150	239,000	239,000	271,700	146,250	146,250	207,050	100,800	100,800
Pacific:									
Washington	940,650	453,400	453,400	424,700	203,050	203,050	341,700	149,700	149,700
Oregon	1,435,700	650,350	650,350	716,900	342,700	342,700	804,550 306,750	384,600 134,050	384,600 134,050
California Alaska	630,950 38,050	312,300 18,350	312,300 18,350	278,450 13,750	131,200 9,200	131,200 9,200	11,600	6,500	6,500
Hawaii	2	10,550	10,550	2	2	2	2	:	1
Total	3,045,600	1,434,500	1,434,500	1,434,000	686,300	686,300	1,464,750	674,950	674,950
Total, West	3,510,750	1,673,500	1,673,500	1,705,700	832,550	832,550	1,671,800	775,750	775,750
Total, United States	6,360,400	3,065,350	3,065,350	3,539,500	1,761,900	1,761,900	3,219,800	1,532,950	1,532,950

(Number)

		(.vanioci	•		
			Prod	uct	
Region	Total employees	Saw logs	Veneer logs	Pulpwood	Other
			1972		
North:					
Northeast North Central	19,350 25,900	7,750 8,800	2 2	8,000 9,050	3,15 7,60
Total	45,250	16,550	900	17,050	10,7:
South:					
Southeast South Central	40,300 57,200	11,400 18,900	2,500 7,150	19,850 22,800	6,5 8,3
Total	97,500	30,300	9,650	42,650	14,9
West:					
Mountain Pacific	8,350 39,300	5,900 24,200	1,000 8,900	: 4,000	1,0 2,2
Total	47,650	30,100	9,900	4,450	3,2
Total, United States	190,400	76,950	20,450	64,150	28,8
	1		1967		
North:					
Northeast	28,700	8,850	650	10,750	8,4
North Central Total	34,200 62,900	10,900	1,300	10,050 20,800	12,6
South:					
Southeast	54,300	14,350	2,250	24,100	13,6
South Central	63,800	23,500	5,150	21,450	13,7
Total	118,100	37,850	7,400	45,550	27,3
West: Mountain	10,200	6,950	1,250	800	1,2
Pacific	45,150	26,300	9,600	6,600	2,6
Total	55,350	33,250	10,850	7,400	3,8
Total, United States	236,350	90,850	19,550	73,750	52,2
			1963		
North:	** ***	0.600	0.50	0.550	12.7
Northeast North Central	32,700 40,800	9,600 11,350	850 750	9,550 10,400	12,7 18,3
Total	73,500	20,950	1,600	19,950	31,0
South:				44.440	
Southeast South Central	69,350 67,650	17,850 26,250	2,450 1,250	25,650 19,250	23,4 20,9
Total	137,000	44,100	3,700	44,900	44,3
West:					
Mountain Pacific	9,400 56,650	7,550 34,100	500 12,650	350 6,900	1,0
Total	66,050	41,650	13,150	7,250	4,0
Total, United States	276,550	106,700	18,450	72,100	79,30

¹ Includes products such as poles and piling, fence posts, mine timbers, cooperage logs, and logs and bolts used for shingles, excelsior and a wide assortment of other wood items; Christmas trees; maple sap; and pine gum.

Footnotes for Table A-5.

² Less than 500 employees.

Sources: Estimates of employment in harvesting were calculated from product output data shown in table A-3 and factors derived from those in The Economic Importance of Timber in the United States, logging employment data from the 1960 and 1970 Censuses of Population, national and regional timber products output data from various Forest Service reports, and productivity estimates from the Bureau of Labor Statistics, U.S. Department of Labor.

Value at local points of delivery.

² Less than 500 thousand dollars.

Sources: Value—See source notes, table A-4. Value added and value added attributed to timber—based on the estimated number of employees in harvesting (see table A-7) and estimates of average value added per employee. Estimates of average value added per employee added in the "logging camps and contractors" industry (SIC 2411) published in the 1963, 1967, and 1972 Censuses of Manufactures. All of the value added was attributed to timber because all final products in this industry consisted of timber and related products.

Table A-7-Estimated employment in timber harvesting in the United States, by region and State, 1972, 1967, and 1963

(Number

Region and State	1972	1967	1963	Region and State	1972	1967	1963
North:				South Central:			•
Northeast:	1			Kentucky	2,050	2,600	4.600
Maine	8,600	10,900	8.850	Tennessee	2,700	3,750	5,30
New Hampshire	1,450	1,450	1,700	Alabama	13,650	16,150	14,20
Vermont	1,300	1,400	2,000	Mississippi	10,550	11,200	11,10
Massachusetts	1	1,300	1,200	Arkansas	9,200	10,550	12,05
Rhode Island	1	1	1	Louisiana	10,850	11,700	10,35
Connecticut	1	500	1,000	Oklahoma	1,100	900	1,80
New York	2,900	5,050	7,200	Texas	7,100	6,950	8,25
New Jersey		1,950	1,650				
Pennsylvania	4,100	6,100	8,900	Total	57,200	63,800	67,65
Total	19,350	28,700	32,700	Total, South	97,500	118,110	137,00
North Central:				West:			
Ohio	2,700	3,700	3,700	Mountain:			
Indiana	1,400	2,200	2,150	Montana	2,750	3,400	2,90
Illinois	1,200	3,500	1,900	Idaho	3,150	3,900	3,60
Michigan	5,900	6,900	8,850	Wyoming	1	1	
Wisconsin	5,650	6,200	8,550	Colorado	1	1	60
Minnesota	4,100	5,200	7,900	New Mexico	550	600	70
lowa	800	850	1,100	Arizona	950	1,300	1,05
Missouri	3,150	4,100	5,400	Utah	,	1	
North Dakota	1	1	,	Nevada	,	1	
South Dakota	'	700	1				
Nebraska	1	1	'	Total	8,350	10,200	9,40
Kansas	1	1	'				
				Pacific:			
Total	25,900	34,200	40,800	Washington	12,950	14,650	15,55
				Oregon	17,200	20,950	28,15
Total, North	45,250	62,900	73,500	California	8,350	8,700	11,65
				Alaska	800	850	1,30
South:				Hawaii	1 '	'	
Southeast:							
Delaware	1	1	'	Total	39,300	45,150	56,65
Maryland	800	1,050	1,800				
Virginia	4,800	6,400	11,150	Total, West	47,650	55,350	66,05
West Virginia	1,600	3,000	4,400		100 100		
North Carolina	7,700	9,850	12,000	Total, United States	190,400	236,350	276,55
South Carolina	6,350	8,950	8,050				
Georgia	14,150	18,600	24,350				
Florida	4,750	6,200	7,400				
Total	40,300	54,300	69,350				

Less than 500 employees.

Sources: See table A-6.

Table A-8—Estimated production of lumber in the United States, by major species groups and region, 1963-72

(Million board feet)

Region and species group	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
North:										
Northeast:										
Softwoods	623	673	644	655	629	645	644	609	624	624
Hardwoods	856	862	884	925	907	928	1,035	942	924	957
Total	1,479	1,535	1,528	1,580	1,536	1,573	1,679	1,551	1,548	1,581
North Central:										
Softwoods	470	369	368	383	371	423	392	384	372	384
Hardwoods	1,256	1,426	1,432	1,458	1,471	1,449	1,528	1,497	1,469	1,396
Total	1,726	1,795	1,800	1,841	1,842	1,872	1,920	1,881	1,841	1,780
Total North:										
Softwoods	1,093	1,042	1,012	1,038	1,000	1,068	1,036	993	996	1,008
Hardwoods	2,112	2,288	2,316	2,383	2,378	2,377	2,563	2,439	2,393	2,353
Total	3,205	3,330	3,328	3,421	3,378	3,445	3,599	3,432	3,389	3,361
								-,		3,50.
South:										
Southeast:										
Softwoods	2,907	3,075	3,109	3,117	3,012	3,116	3,092	3,142	3,413	3,459
Hardwoods	2,334	2,072	2,141	2,258	2,192	2,132	2,114	2,087	1,985	1,960
Total	5,241	5,147	5,250	5,375	5,204	5,248	5,206	5,229	5,398	5,419
South Central:	3,211	2,117	3,230		3,204	2,240	5,200	3,227	3,370	5,417
Softwoods	3,466	3,641	3,795	3,742	3,743	4,025	4,352	4,159	4,570	4,661
Hardwoods	2,529	2,754	2,849	2,892	2,663	2,523	2,648	2,485	2,429	
nardwoods	2,329	2,/34	2,849	2,892	2,003	2,323	2,048	2,485	2,429	2,318
Total	5,995	6,395	6,644	6,634	6,406	6,548	7,000	6,644	6,999	6,979
Total South:										
Softwoods	6,373	6,716	6,904	6,859	6,755	7,141	7,444	7,301	7,983	8,120
Hardwoods	4,863	4,826	4,990	5,150	4,855	4,655	4,762	4,572	4,414	4,278
Total	11,236	11,542	11,894	12,009	11,610	11,796	12,206	11,873	12,397	12,398
West:										
Mountain:										
Softwoods	3,702	4,038	4,116	4,149	4,154	4,528	4,361	4,098	4,441	4,378
Hardwoods	39	9	9	18	17	17	16	15	15	16
Total	3,741	4,047	4,125	4,167	4,171	4,545	4,377	4,113	4,456	4,394
Pacific:										
Softwoods	16,384	17,488	17,263	16,801	15,402	16,548	15,501	15,138	16,619	17,469
Hardwoods	140	152	152	186	180	139	141	112	127	123
Total	16,524	17,640	17,415	16,987	15,582	16,687	15,642	15,250	16,746	17,592
Total West:										
Softwoods	20.000	21.626	21.270	20.050	10.556	21.07/	10.073	10.224	21.000	21.047
	20,086	21,526	21,379	20,950	19,556	21,076	19,862	19,236	21,060	21,847
Hardwoods	179	161	161	204	197	156	157	127	142	139
Total	20,265	21,687	21,540	21,154	19,753	21,232	20,019	19,363	21,202	21,986
United States:										
	27,552	29,284	29,295	28,847	27,311	29,285	28,342	27,530	30,039	30,975
Softwoods Hardwoods										6.770
Hardwoods	7,154	7,275	7,467	7,737	7,430	7,188	7,482	7,138	6,949	6,770

Source: U.S. Department of Commerce, Bureau of the Census, Lumber production and mill stocks. Curr. Indus. Reps. Ser. MA-24T. (annual).

Table A-9-Estimated production of plywood in the United States, by major species groups and region, 1963-72

(Million square feet, 3/8-inch basis)

Region and species group	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
North:										
Northeast: Softwoods									_	
Hardwoods	177	194	211	208	172	166	162	138	139	156
Total	177	194	211	208	172	166	162	138	139	156
North Central:										
Softwoods	_	_	_	_	_		_	_		_
Hardwoods	274	310	306	325	284	281	290	272	200	234
Total	274	310	306	325	284	281	290	272	200	234
Total, North:										
Softwoods	_	_	_	_	_	_	_			
Hardwoods	451	504	517	533	456	447	452	410	339	390
Total	451	504	517	533	456	447	452	410	339	390
South:										
Southeast: Softwoods			22	181	343	555	687	011	1.040	. 204
Hardwoods	555	572	603	654	616	596	594	911 560	1,048 609	1,304 650
Total	555	572	625	835	959	1,151	1,281	1,471	1,657	1,954
		372		633	727	1,131	1,201	1,471	1,057	1,734
South Central: Softwoods	_	80	380	959	1,436	1,818	2,188	2,404	3,362	4,014
Hardwoods	201	212	257	281	230	208	178	163	204	243
Total	201	292	637	1,240	1,666	2,026	2,366	2,567	3,566	4,257
	201					2,020	2,300	2,507	3,500	7,237
Total, South:										
Softwoods		80	402	1,140	1,779	2,373	2,875	3,315	4,410	5,318
Hardwoods	756	784	860	935	846	804	772	723	813	893
Total	756	864	1,262	2,075	2,625	3,177	3,647	4,038	5,223	6,211
West:										
Mountain:										
Softwoods	358	495	730	892	1,062	1,065	918	891	1,023	1,068
Hardwoods	_									_
Total	358	495	730	892	1,062	1,065	918	891	1,023	1,068
Pacific:										
Softwoods	9,858	11,103	11,315	11,022	10,116	11,257	9,901	10,071	11,202	11,937
Hardwoods	476	624	672	608	614	758	645	663	778	813
Total	10,334	11,727	11,987	11,630	10,730	12,015	10,546	10,734	11,980	12,750
Total, West:										
Softwoods	10,216	11,598	12,045	11,914	11,178	12,322	10,819	10,962	12,225	13,005
Hardwoods	476	624	672	608	614	758	645	663	778	813
Total	10,692	12,222	12,717	12,522	11,792	13,080	11,464	11,625	13,003	13,818
United States:										
Softwoods	10,216	11,679	12,447	13,045	13,054	14,695	13,694	14,277	16,635	18,323
Hardwoods	1,683	1,912	2,049	2,076	1,916	2,009	13,694	1,796	1,930	2,096
Total	11,899									20,419
rotai	11,899	13,591	14,496	15,130	14,873	16,704	15,563	16,073	18,565	20,419

Sources: Softwood plywood—American Plywood Association and U.S. Department of Commerce, Bureau of the Census. Softwood Plywood. Curr. Indus. Reps. Ser. MA-24H (annual). Hardwood plywood—U.S. Department of Commerce, Bureau of the Census. Hardwood Plywood. Curr. Indus. Reps. Ser. MA-24F (annual).

American Plywood Association data on softwood plywood production differ from those published by the Bureau of the Census as follows (all data in million square feet, 3/8-inch basis):

Year APA Census

Census

Year APA

Census 14,385 1963 1964 10,216 10,375 1968 14.695 13,538 11,455 12,428 12,847 11,679 12,447 1969 13,694 14,277 1965 1970 14,149 1966 13,054 1971 16,635 16,354 17,843 1967 18,323 12,957 12,840 1972

Table A-10-Estimated production of wood pulp in the United States, by region, 1963-72

(Thousand short tons)

Region	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
North:		•								
Northeast	3,143	3,201	3,232	3,408	3,769	3,975	4,036	3,761	3,705	3,903
North Central	3,223	3,331	3,438	3,517	3,407	3,606	3,946	3,738	3,777	3,896
Total, North	6,366	6,532	6,670	6,925	7,176	7,581	7,982	7,499	7,482	7,799
South:										
Southeast	10,647	11,473	12,183	12,995	12,828	13,808	14,388	14,088	14,086	14,731
South Central	7,241	8,238	8,473	9,381	9,294	9,990	13,043	13,783	14,445	15,644
Total, South	17,888	19,711	20,656	22,376	22,122	23,798	27,430	27,871	28,530	30,376
West:										
Mountain	569	585	621	678	751	799	804	803	805	865
Pacific	5,298	5,601	6,046	6,660	6,612	7,221	7,201	7,490	7,115	7,727
Total, West	5,868	6,186	6,667	7,339	7,362	8,020	8,004	8,293	7,921	8,592
Total, United States	310,121	32,429	33,993	36,640	36,660	39,400	43,416	43,663	43,933	46,767

Note: Data may not add to totals due to rounding.

Source: U.S. Department of Commerce, Bureau of the Census, Pulp, paper, and board. Curr. Indus. Reps. Ser. M26A, (annual).

Table A-11—Estimated value of shipments from primary manufacturing industries in the United States, by industry and region, 1972, 1967, and 1963

	usa		

Region	Total	Sawmills and planing mills	Veneer and plywood plants	Pulp, paper and paper- board mills	All other
			1972		
North:					
Northeast North Central	3,016,850 2,157,050	383,900 446,200	73,800 170,200	2,545,050 2,455,350	14,100 85,300
Total	6,173,900	830,100	244,000	5,000,400	99,400
=					
South: Southeast	4,470,600	1,262,000	462,100	2,503,300	243,200
South Central	4,909,500	1,693,800	499,400	2,503,300	213,000
Total	9,380,100	2,955,800	961,500	5,006,600	456,200
West:	000 400	444.000			
Mountain Pacific	800,200 6,663,700	641,900 3,146,900	110,000 1,607,800	32,700 1,665,100	15,600 243,900
Total	7,463,900	3,788,800	1,717,800	1,697,800	259,500
Total, United States	23,107,900	7,574,700	2,923,300	11,704,800	815,100
			1967		
North: Northeast	2,491,600	264,600	57,700	2,155,300	14,000
North Central	2,491,000	257,200	146,700	1,982,200	41,200
Total	4,918,900	521,800	204,400	4,137,500	55,200
South:			100,000		
Southeast South Central	2,984,250 2,790,750	725,050 979,650	225,000 177,000	1,916,900 1,526,400	117,300 107,700
Total	5,775,000	1,704,700	402,000	3,443,300	225,500
West:					
Mountain	515,450	387,700	54,700	70,500	2,550
Pacific	3,811,350	1,562,900	1,026,100	1,171,400	50,950
Total	4,326,800	1,950,600	1,080,800	1,241,900	53,500
Total, United States	15,020,700	4,177,100	1,687,200	8,822,700	333,700
			1963		
North:		-			
Northeast	2,107,950	211,600	49,500	1,834,450	12,400
North Central	1,974,700	221,550	143,250	1,577,700	32,200
Total	4,082,650	433,150	192,750	3,412,150	44,600
South:				0., .000	114.250
Southeast South Central	2,401,500 2,170,050	638,800 874,700	154,350 65,550	1,494,000 1,131,200	114,350 98,600
Total	4,571,550	1,513,500	219,900	2,625,200	212,950
West:					
Mountain	430,500	336,050	18,150	74,700	1,600 49,750
Pacific	3,343,150	1,465,200	908,800 926,950	919,400	51,350
Total	3,773,650	1,801,250			
Total, United States	12,427,850	3,747,900	1,339,600	7,031,450	308,900

Table A-12—Estimated value of shipments from primary manufacturing industries in the United States, by region and State, 1972, 1967, and 1963

Region and State	1972	1967	1963	Region and State	1972	1967	1963
North:				South Central:		•	
Northeast:				Kentucky	221,850	95,300	68,350
Maine	762,000	588,750	433,500	Tennessee	544,850	421,300	340,850
New Hampshire	166,550	144,500	119,100	Alabama	902,450	607,700	442,700
Vermont	87,800	56,850	50,900	Mississippi	737,550	324,800	261,950
Massachusetts	317,450	317,400	281,500	Arkansas	771,850	422,050	327,300
Rhode Island	12,150	6,050	4,750	Louisiana	956.850	533,750	461,700
Connecticut	107,200	89,300	74,700	Oklahoma	145,250	54,300	32,450
New York	630,950	533,850	474,950	Texas	628,850	331,550	234,750
New Jersey	258,500	242,650	223,750	1 0.005	020,030	331,330	254,750
Pennsylvania	674,250	512,250	444,800	Total	4,909,500	2,790,750	2,170,050
Total	3,016,850	2,491,600	2,107,950	Total, South	9,380,100	5,775,000	4,571,550
North Central:				West:			***************************************
Ohio	625,200	488,550	393,650	Mountain:			
Indiana	193,100	163,400	142,900	Montana	226,900	171,950	114,100
Illinois	192,550	165,000	123,300	ldaho	387,100	210,850	188,400
Michigan	592,550	459,000	377,800	Wyoming	19,600	12,500	8,850
Wisconsin	1,056,650	811,050	653,550	Colorado	37,800	37,400	30,300
Minnesota	322,300	222,550	181,200	New Mexico	49,450	16,700	23,400
lowa	35,200	26,250	22,550	Arizona	56,000	54,800	55,500
Missouri	91,950	66,800	60,550	Utah	18,400	8,100	7,450
North Dakota	3,500	750	850	Nevada	4,950	3,150	2,500
South Dakota	12,800	6,050	4,100	1101444	-,,,,,,		2,50
Nebraska	2,150	2,200	1,000	Total	800,200	515,450	430,500
Kansas	29,100	15,700	13,250	l Total	000,200	315,450	430,500
ixansa ,	27,100	15,700	13,230	Pacific:			
Total	3,157,050	2,427,300	1,974,700	Washington	1,979,050	1,265,500	1,097,850
rotai	2,137,030	2,427,500	11774,700	Oregon	2,954,600	1,585,050	1,386,650
Total, North	6,173,900	4,918,900	4.082.650	California	1,636,900	863,200	797,900
Total, North	0,175,200	4,210,200	4,002,050	Alaska	92,000	96,100	57,400
South:		***************************************		Hawaii	1,150	1,500	3,350
Southeast:				114.44.1	1,150	1,500	5,550
Delaware	27,400	17,450	12,900	Total	6,663,700	3,811,350	3,343,150
Maryland	202,600	125,650	89,050	l Total	0,005,700	5,0.1,550	5,545,150
Virginia	793,550	542,150	428,900	Total, West	7,463,900	4,326,800	3,773,650
West Virginia	115,650	95,650	78,200	10.0., 17631	.,.35,700	.,520,000	51.75,050
North Carolina	944,050	647,950	474,700	Total, United States	23,017,900	15,020,700	12,427,850
South Carolina	584,350	365,300	303,400	Total, Office States	25,017,700	.5,020,700	.2,-2,,000
Georgia	1,172,100	737,700	615,400				
Florida	630,900	452,400	398,950				
illiua	030,700	452,400	370,730				
Total	4,470,600	2,984,250	2,401,500				
	1,,	3,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-, , ,				

Note: Industry composition and definitions are given in Appendix B.

Sources: See table A-11.

Footnote for Table A-11.

1 Includes enterprises manufacturing particleboard, excelsior, wood shingles, cooperage, and gum and wood naval stores.

Note: Industry composition and definitions are given in Appendix B.

Sources: Value of shipments: U.S. Department of Commerce, Bureau of the Census. 1963, 1967, and 1972 Censuses of Manufactures. The sawmills and planing mills industry value of shipments were adjusted to include shipments from small eastern mills not included in the Census estimates. The value of shipments from sawmills and planing mills as reported by Census and the estimates made for this study are shown below. Estimates of value of shipments for States and regions for which no Census information was published were derived from table footnotes and trend data.

	1972			967	1963	
Region	Census	This study	Census	This study	Census	This study
	Thousand dollars	Thousand dollars				
North South West	718,335 2,535,665 3,788,800	830,100 2,955,800 3,788,800	455,600 1,473,700 1,950,600	521,800 1,704,700 1,950,600	378,481 1,321,851 1,801,240	433,150 1,513,500 1,801,250
Total	7,042,800	7,574,700	3,879,900	4,177,100	3,501,572	3,747,900

Table A-13—Estimated value added in primary manufacturing industries in the United States, by industry and region, 1972, 1967, and 1963

		(Thousand do	ollars)		
Region	Total	Sawmills and planing mills	Veneer and plywood plants	Pulp, paper and paper- board mills	All other
		J	1972		· · · · · · · · · · · · · · · · · · ·
North:					
Northeast North Central	1,294,500 1,384,600	130,800 157,450	29,800 72,050	1,128,300 1,114,950	5,600 40,150
Total	2,679,100	288,250	101,850	2,243,250	45,750
South:	· · · · · · · · · · · · · · · · · · ·				
Southeast South Central	1,946,150 2,183,450	479,500 675,650	187,400 217,100	1,163,650 1,195,450	115,600 95,250
Total	4,129,600	1,155,150	404,500	2,359,100	210,850
West:					
Mountain Pacific	338,950 2,921,200	279,650 1,306,300	34,250 697,800	16,850 798,100	8,200 119,000
Total	3,260,150	1,585,950	732,050	814,950	127,200
Total, United States	10,068,850	3,029,350	1,238,400	5,417,300	383,800
			1967		
North: Northeast	1,131,550	93,050	22,850	1,009,650	6,000
North Central	1,140,150	93,800	64,600	965,050	16,900
Total	2,271,700	186,850	87,250	1,974,700	22,900
South:					
Southeast South Central	1,408,000 1,281,250	277,150 371,850	89,150 71,850	985,900 789,450	55,800 48,100
Total	2,689,250	649,000	161,000	1,775,350	103,900
West:					
Mountain Pacific	198,100 1,507,400	144,900 544,850	18,850 381,600	33,200 557,400	1,150 23,550
Total	1,705,500	689,750	400,450	590,600	24,700
Total, United States	6,666,450	1,525,600	648,700	4,340,650	151,500
			1963		
North:					
Northeast	929,100	66,100	20,600	837,000	5,400
North Central Total	909,650	78,500 144,600	59,050 79,650	758,400 1,595,400	13,700
South:	-,,		.,,	.,,,,	
Southeast	1,137,550	232,750	67,800	780,450	56,550
South Central Total	1,005,400 2,142,950	337,400 570,150	27,050 94,850	598,950 1,379,400	42,000 98,550
	2,142,930	3/0,130	94,030	1,3/7,400	78,300
West: Mountain	161,900	121,200	5,450	34,500	750
Pacific	1,306,000	483,900	348,950	449,850	23,300
Total	1,467,900	605,100	354,400	484,350	24,050

Total, United States

5,449,600

528,900

1,319,850

141,700

3,459,150

Table A-14—Estimated value added in primary manufacturing industries in the United States, by region and State, 1972, 1967, and 1963

Region and State	1972	1967	1963	Region and State	1972	1967	1963
North:				South Central:			
Northeast:				Kentucky	95,050	39,050	26,600
Maine	318,500	262,550	212,650	Tennessee	226,550	186,100	154,450
New Hampshire	62,650	58,700	38,200	Alabama	415,650	291,700	206,100
Vermont	35,500	22,450	16,950	Mississippi	323,700	140,800	114,100
Massachusetts	150,050	152,700	136,150	Arkansas	346,850	187,150	143,350
Rhode Island	5,450	2,950	2,400	Louisiana	435,300	254,550	229,700
Connecticut	50,550	42,500	33,900	Oklahoma	65.000	23,050	16,100
New York	268,200	232,850	194,150	Texas	275,350	158,850	115,000
New Jersey	121,450	123,300	106,700				
Pennsylvania	282,150	233,550	188,000	Total	2,183,450	1,281,250	1,005,400
Total	1,294,500	1,131,550	929,100	Total, South	4,129,600	2,689,250	2,142,950
North Central:				West:			
Ohio	272,900	252,650	194,250	Mountain:			
Indiana	87,500	72,700	62,700	Montana	97,450	65,000	42,650
Illinois	84,200	79,550	55,350	ldaho	157,650	80,650	70,900
Michigan	255,600	198,200	161,700	Wyoming	8,900	4,750	4,000
Wisconsin	465,400	382,500	307,650	Colorado	16,650	14,650	11,900
Minnesota	149,200	105,450	86,700	New Mexico	22,600	7,100	8,650
lowa	16,650	12,550	10,400	Arizona	25,050	21,950	20,000
Missouri	33,250	25,500	22,100	Utah	8,400	2,800	2,850
North Dakota	1,300			Nevada	2,250	1,200	950
South Dakota	6,500	2,750	1,750				
Nebraska	950	850	450	Total	338,950	198,100	161,900
Kansas	11,150	7,150	6,250				
	-			Pacific:			
Total	1,384,600	1.140.150	909,650	Washington	878,800	538,100	460,450
				Oregon	1,282,100	596,100	521,700
Total, North	2,679,100	2,271,700	1,838,750	California	718,650	329,700	295,950
rotary rottin	2,077,100	2,2.1,.00	1,000,750	Alaska	41,150	42,950	26,250
South:				Hawaii	500	550	1,650
Southeast:							.,,,,,
Delaware	11,950	7,450	5,050	Total	2.921.200	1,507,400	1,306,000
Maryland	90,300	61,900	43,400	Total	2,721,200	1,507,400	1,200,000
Virginia	358,300	267,400	201,350	Total, West	3,260,150	1,705,500	1,467,900
West Virginia	50,250	43,450	32,750	a Otal, Trest	5,200,150	2,702,500	1,.0.,500
North Carolina	390,750	292,900	219,000	Total, United States	10,068,850	6,666,450	5,449,600
South Carolina	249,700	167,500	137,400	rotal, Office States	10,000,020	0,000,400	3,447,000
Georgia	527,250	352.750	307,600				
Florida	267,650	214,650	191,000				
	-						
Total	1,946,150	1,408,000	1,137,550				

Less than 500 thousand dollars.

Note: Industry composition and definition are given in Appendix B.

Sources: See table A-13.

Footnotes for Table A-13.

Sources: Value added: U.S. Department of Commerce, Bureau of Census, 1963, 1967, and 1972 Censuses of Manufactures. The sawmills and planing mills industry values added were adjusted to include the value added in small eastern mills not covered by Census estimates, and to exclude the value added in logging and woods operations conducted in combination with sawmills. The veneer and plywood and pulp, paper, and paperboard industries values added were also adjusted to exclude the value reported by Census and the comparable estimates made for this study are shown below. Estimates of values added for States and regions for which no Census information was published were derived from table footnotes and industry trend data.

	1972		19	967	1963	
Region	Census	This study	Census	This study	Census	This study
	Thousand dollars	Thousand dollars	Thousand dollars	Thousand dollars	Thousand dollars	Thousand dollars
			Sawmills and	planing mills		
North South West	317,020 1,110,980 1,746,300	288,250 1,155,150 1,585,950	225,900 669,900 837,400	186,850 649,000 689,750	173,240 578,861 779,062	144,600 570,150 605,100
Total	3,174,300	3,029,350	1,733,200	1,525,600	1,531,163	1,319,850
			Veneer and p	lywood plants		
North South West Total	105,400 410,500 760,300 1,276,200	101,850 404,500 732,050 1,238,400	91,300 163,800 423,000 678,100	87,250 161,000 400,450 648,700	82,767 95,899 380,545 559,211	79,650 94,850 354,400 528,900
			Pulp, paper, and	paperboard mills		
North South West	2,225,600 2,369,000 832,600	2,243,250 2,359,100 814,950	1,986,500 1,782,900 613,100	1,974,700 1,775,350 590,600	1,603,646 1,383,350 505,336	1,595,400 1,379,400 484,350
Total	5,457,200	5,417,300	4,382,500	4,340,650	3,492,332	3,459,150

Includes enterprises manufacturing particleboard, excelsior, wood shingles, cooperage, and gum and wood naval stores.

Note: Industry composition and definitions are given in Appendix B.

Table A-15—Estimated value added attributed to timber in primary manufacturing industries in the United States, by industry and region, 1972, 1967, and 1963

Region	Total	Sawmills and planing mills	Veneer and plywood plants	Pulp, paper and paper- board mills	All other
			1972		
North:					
Northeast North Central	1,108,650 1,176,950	124,300 149,600	26,850 64,800	952,300 936,350	5,200 26,200
Total	2,285,600	273,900	91,650	1,888,650	31,400
South:		A			
Southeast South Central	1,693,100 1,910,300	455,550 641,850	163,050 188,900	984,750 1,013,200	89,750 66,350
Total	3,603,400	1,097,400	351,950	1,997,950	156,100
West:					
Mountain Pacific	313,350 2,594,600	265,600 1,239,400	29,450 600,100	14,350 682,150	3,950 72,950
Total	2,907,950	1,505,000	629,550	696,500	76,900
Total, United States	8,796,950	2,876,300	1,073,150	4,583,100	264,400
-			1967		
North: Northeast	942,650	88,400	20,550	828,050	5,650
North Central	937,650	89,100	57,950	774,950	15,650
Total	1,880,300	177,500	78,500	1,603,000	21,300
South: Southeast	1,148,850	263,300	80,200	752,650	52,700
South Central	1,082,100	353,250	64,700	619,050	45,100
Total	2,230,950	616,550	144,900	1,371,700	97,800
West:	404.000	445.450		****	
Mountain Pacific	181,000 1,336,450	137,650 517,450	17,000 343,450	25,300 454,300	1,050 21,250
Total	1,517,450	655,100	360,450	479,600	22,300
Total, United States	5,628,700	1,449,150	583,850	3,454,300	141,400
			1963		
North: Northeast	793,400	62,800	18,550	707,000	5,050
North Central	780,100	74,600	53,150	639,700	12,650
Total	1,573,500	137,400	71,700	1,346,700	17,700
South:				*** 0.50	52.450
Southeast South Central	1,001,500 888,950	221,150 320,500	61,050 24,300	665,850 504,500	53,450 39,650
Total	1,890,450	541,650	85,350	1,170,350	93,100
West:					
Mountain Pacific	150,500 1,180,000	115,150 459,650	4,900 314,050	29,750 385,300	700 21,000
Total	1,330,500	574,800	318,950	415,050	21,700
Total, United States	4,794,450	1,253,850	476,000	2,932,100	132,500

¹ Includes manufacturers of particleboard, excelsior, wood shingles, cooperage, and wood and gum naval stores.

Note: Industry composition and definitions are given in Appendix B.

Sources: Estimates of value added attributed to timber are based on value added by industry (table A-13) and ratios between the cost of timber products consumed and the cost of all materials consumed by industry, published by the U.S. Department of Commerce, Bureau of the Census in the 1963, 1967, and 1972 Censuses of Manufactures. Changes in the industry ratios during the study period are due to changes in industry composition (see Appendix B) as well as changes in the consumption ratios.

Table A-16—Estimated value added attributed to timber in primary manufacturing industries in the United States, by region and State, 1972, 1967, and 1963

Region and State	1972	1967	1963	Region and State	1972	1967	1963
None				South Central			
Northeast:				Kentucks	85,150	36,500	24,850
Maine	273,000	225, (50)	181,960	Tennessee	202,500	158.150	137,850
New Hameshire	54,400	50,600	33,500	Alabama	363.250	243,750	179,850
\ ermont	31,300	19,300	05.200	Messissippi	282,450	126,250	102,500
Massachusetts	128,300	127,900	116,150	Arcansas	307,350	160,450	129,500
Rhode Island	4.050	2,150	1.750	Louisiana	373,800	203.550	198,600
Connections	43.200	33,050	28,900	Oklanoma	52,650	19.850	14,000
New York	230,200	195,700	166,250	Texas	243.150	133,600	101,800
New Jersey	100,750	95,050	88,550				
Peninsylvania	243,450	194,250	160.200	Total.	1.910.300	1,082,100	688,950
Total	1,108.650	942,650	793,400	Total, South	3,603,400	1.130,950	1,890,450
North Central				W est:			
Ohio	233,650	306,300	165,600	Mountain:			
Inclana	75,600	69,000	55,500	Montana	89,350	59.150	39,750
III mous	70,450	61,650	45,950	ldano	146,450	73,450	65.750
Micnegan	214,800	159,300	139.250	Samon W	3.450	4,500	3,800
Wisconsin	399,250	323,150	263.900	Colorado	15,300	13,300	11,050
Minnesota	121.450	E-4, 7(4)	T2,000	New Metico	20,650	6.750	6,200
lowa	13.800	9,400	8.650	Arizona	23.050	20,050	18,350
Wissour	31.250	23,100	20,300	Utah	1,950	1.300	2,700
North Dayota	1.150			No see	2.150	2,500	900
South Dakota	6.150	2.650	1.650				
Nebrasila	150	150		Total	313,350	183,000	150,500
Kansas	9.650	5,500	5.450				
				Pacific:			
Total	1,176,950	937,650	780,.00	Washington	786,050	467,700	410,450
				Oregon	1,122,750	533.650	473,450
Total, Nomin	2,285,600	1,880,300	1.573.500	California	647,800	295,500	271.200
				Alaska	37,500	39.000	23,700
South				Hawaii	500	500	1,200
Southeast				11			_
Dela ware	10.350	6.050	4,450	Total	2.594,600	1,336,450	1,180,000
Maryland	77 250	51,750	37.400	1	-		
Virginia	304,900	215.450	976,T50	Total, West	2:907.950	1,517,450	1,330,500
West Virginia	46,700	40,150	30.250				
North Carolina	342,600	25),700	194,650	Total, United States	8,796,950	5,628,700	4,794,450
South Carolina	217,700	131,700	121,200				
Georgia	457,250	278,000	269.950		1		
Florida	236,350	174,050	156,850				
Total	1,693,100	0,145.550	1.001.500				

Less than 500 thousand dollars.

Note: Industry composition and definitions are given in Appendix B.

Sources: See table A-15.

Table A-17—Estimated employment in primary manufacturing industries in the United States, by industry and region, 1972, 1967, and 1963

(Number)

		(i tamoei	'		
Region	Total	Sawmills and planing mills	Veneer and plywood plants	Pulp, paper and paper- board mills	All other
			1972		
North:	40.540	40.000	2.42	*******	2
Northeast North Central	69,750 72,600	10,300 12,000	2,650 5,150	56,500 52,850	2,600
Total	142,350	22,300	7,800	109,350	2,900
South:				 	
Southeast South Central	97,300 110,200	37,750 51,800	13,050 11,850	41,500 41,350	5,000 5,200
Total	207,500	89,550	24,900	82,850	10,200
West:		***************************************			
Mountain	18,300	14,950	1,550	1,300	500
Pacific Total	119,750	56,700 71,650	32,150 33,700	24,200 25,500	6,700 7,200
Total, United States	487,900	183,500	66,400	217,700	20,300
Total, Office States	467,700	163,300		217,700	20,300
			1967		
North:					
Northeast North Central	81,550 79,400	12,050 11,950	2,950 6,550	65,950 58,700	600 2,200
Total	160,950	24,000	9,500	124,650	2,800
South:					
Southeast South Central	101,100 106,350	41,300 56,900	13,400 8,750	43,100 36,600	3,300 4,100
Total	207,450	98,200	22,150	79,700	7,400
West:					
Mountain Pacific	18,900 114,600	15,550 51,350	1,700 36,850	1,550 23,700	2,700
Total	133,500	66,900	38,550	25,250	2,800
Total, United States	501,900	189,100	70,200	229,600	13,000
			1963		
North:					
Northeast North Central	81,950 74,900	12,100 13,350	2,650 7,000	66,550 52,400	650 2,150
Total	156,850	25,450	9,650	118,950	2,800
South:					
Southeast South Central	106,400 107,850	50,100 65,100	12,350 4,700	40,150 33,950	3,800 4,100
Total	214,250	115,200	17,050	74,100	7,900
West:	- ,,				
Mountain	17,750	15,450	750	1,400	3 100
Pacific	113,550	53,800	35,350 36,100	21,300 22,700	3,100 3,250
Total	131,300	69,250			
Total, United States	502,400	209,900	62,800	215,750	13,950

See footnotes on page 48.

Table A-18-Estimated employment in primary manufacturing industries in the United States, by region and State, 1972, 1967, and 1963

			(Nu	mber)			
Region and State	1972	1967	1963	Region and State	1972	1967	1963
North:				South Central:			
Northeast:				Kentucky	6,000	5,350	5,650
Maine	16,300	18,300	16,750	Tennessee	12,750	15,500	15,650
New Hampshire	4,250	4,400	4,400	Alabama	21,000	21,450	20,600
Vermont	2,000	2,350	2,650	Mississippi	16,750	13,800	14,500
Massachusetts	7,950	11,300	12,050	Arkansas	18,150	17,650	17,850
Rhode Island	1	1	1	Louisiana	18,950	17,300	20,900
Connecticut	2,150	2,250	2,450	Oklahoma	2,850	2,600	1,500
New York	14,800	17,400	18,600	Texas	13,750	12,700	11,200
New Jersey	6,050	7,350	7,650				
Pennsylvania	15,950	17,950	17,200	Total	110,200	106,350	107,850
Total	69,750	81,550	81,950	Total, South	207,500	207,450	214,250
North Central:				West:			
Ohio	13,600	15,250	12,850	Mountain:			
Indiana	5,450	6,150	6,200	Montana Montana	5 350	5,000	5 200
Illinois	4,900	6,200	5,250	Idaho	5,350 7,600	8,100	5,200 6,950
Michigan	13,400	14,000	12,900	Wyoming	500	500	500
Wisconsin	23,150	24,950	24,800	Colorado	1,300	1,400	1,400
Minnesota	7,650	7,600	7,500	New Mexico	1,250	1,200	1,150
Iowa	750	900	900	Arizona	1,650	2,100	2,000
Missouri	2,650	3,450	3,600	Utah	550	500	2,000
North Dakota	2,050	3,430	1	Nevada	330	500	
South Dakota	1	l l		- Terada			
Nebraska	1	1		Total	18,300	18,900	17,750
Kansas	600	550	550	1000	10,500	10,500	17,750
				Pacific:			
Total	72,600	79,400	74,900	Washington	36,900	36,800	36,550
				Oregon	52,700	51,050	48,700
Total, North	142,350	160,950	156,850	California	28,750	25,200	27,000
				Alaska	1,350	1,550	1,250
South:				Hawaii	1	1	
Southeast:							
Delaware	500	650	550	Total	119,750	114,600	113,550
Maryland	3,900	4,050	3,900				
Virginia	18,700	19,350	20,600	Total, West	138,050	133,500	131,300
West Virginia	3,550	5,000	5,400				
North Carolina	24,900	26,800	27,400	Total, United States	487,900	501,900	502,400
South Carolina	12,450	12,750	13,450				
Georgia	22,000	20,700	22,300				
Florida	11,300	11,800	12,800				
Total	97,300	101,100	106,400				

Less than 500 employees.

Sources: See table A-17.

Footnotes for Table A-17.

Source: Employment: U.S. Department of Commerce, Bureau of the Census 1963, 1967, and 1972 Censuses of Manufactures. The sawmills and planing mills industry employment data were adjusted to include estimates of employment in logging and woods operations conducted in combination with those industries. The employment reported by Census and the comparable estimates made for this control of the comparable estimates and the comparable estimates and the comparable estimates made for this control of the control of the

	1972		19	67		1963
Region	Census	This study	Census	This study	Census	This study
	(Number)	(Number)	(Number)	(Number)	(Number)	(Number
			Sawmills and	planing mills		
North	26,035	22,300	28,700	24,000	30,566	25,450
South	90,665	89,550	100,500	98,200	118,597	115,20
West	81,000	71,650	79,200	66,900	86,330	69,25
Total	197,700	183,500	208,400	189,100	235,493	209,90
			Veneer and p	ywood plants		
North	8,100	7,800	10,000	9,500	10,248	9,65
South	25,400	24,900	22,500	22,150	17,288	17,05
West	35,300	33,700	40,400	38,550	38,619	36,10
Total	68,800	66,400	72,900	70,200	66,155	62,80
			Pulp, paper, and	paperboard mills		
North	110,400	109,350	126,100	124,650	120,531	118,95
South	83,700	82,850	80,600	79,700	74,991	74,05
West	26,500	25,500	27,100	25,250	24,721	22,70
				229,600	220,243	215,75

Note: Industry composition and definitions are given in Appendix B.

¹ Includes enterprises manufacturing particleboard, excelsior, wood shingles, cooperage, and gum and wood naval stores.

² Less than 500 employees.

Note: Industry composition and definitions are given in Appendix B.

Table A-19—Estimated employment attributed to timber in primary manufacturing industries in the United States, by industry and region, 1972, 1967, and 1963

(Number) Sawmills Veneer and Pulp, paper Region and planing plywood and paper-Total mills plants board mills All other 1972 Northeast 59.850 9,450 2,400 47,700 North Central 61,800 10.950 4,600 44 400 1,850 Total 121,650 20.400 7,000 92,100 2,150 South: Southeast 85,150 3,550 South Central 96,400 47,800 10,300 34,900 3,400 181,550 82,900 21,700 70,000 6,950 West. Mountain 16,950 14,200 1,350 1,100 Pacific 53,700 27,650 20,650 4,400 123,350 67,900 21,750 Total 29.000 4.700 Total, United States 426,550 171,200 57,700 183,850 13,800 1967 North: Northeast 68,700 11,300 2,650 54,200 550 North Central 66,550 11,150 47,400 2,050 135,250 22,450 8,600 101,600 2,600 South: Southeast 87,100 38,900 12.050 33.050 3.100 South Central 94,050 53,350 7,850 29,050 3,800 92,250 19,900 6,900 Total 181,150 62,100 West: Mountain 17,600 14,750 1,500 1,250 Pacific 2,400 103,750 48,800 33,200 19,350 Total 121,350 63,550 34,700 20,600 2,500 Total, United States 437,750 178,250 63,200 184,300 12,000 1963 North: Northeast 600 70.550 11.350 2.350 56.250 North Central 2,000 64,850 12,450 6,300 44,100 135,400 23,800 8,650 100,350 2,600 Total 3.600 Southeast 96,100 47.250 11,100 34,150 South Central 3,800 97,700 4.250 28,500 61,150 7,400 193.800 15.350 62,650 Total 108,400 Mountain 1,200 2,800 Pacific 103,900 51,100 31,850 18,150 2,900 Total 120,550 65,800 32,500 19.350

Total, United States

449,750

56,500

198,000

182,350

12,900

¹ Includes enterprises manufacturing particleboard, excelsior, wood shingles, cooperage, and gum and wood naval stores.

² Less than 500 employees.

Note: Industry composition and definitions are given in Appendix B.

Sources: Estimates of employment attributed to timber are based on employment by industry (table 17) and ratios between the cost of timber products consumed and the cost of all materials consumed by industry, published by the U.S. Department of Commerce, Bureau of the Census in the 1963, 1967, and 1972 Censuses of Manufactures. Changes in the industry ratios during the study period are due to changes in industry composition (see Appendix B) as well as changes in the consumption ratios.

Table A-20—Estimated employment attributed to timber in primary manufacturing industries in the United States, by region and State, 1972, 1967, and 1963

(Number)

Region and State	1972	1967	1963	Region and State	1972	1967	1963
North:				South Central:		1	
Northeast:				Kentucky	5,250	4,950	5.250
Maine	14,000	15,800	14,450	Tennessee	11.150	13,650	14.150
New Hampshire	3,700	3,850	3,850	Alabama	18,550	18,850	18,550
Vermont	1,800	2,050	2,350	Mississippi	14,600	12,550	13.250
Massachusetts	6,800	9.450	10,300	Arkansas	16,050	15,850	16,400
Rhode Island				Louisiana	16,350	14,500	18,550
Connecticut	1,850	1,750	2.150	Oklahoma	2,200	2,400	1,350
New York	12,700	14,700	16,050	Texas	12,250	11,300	10,200
New Jersey	5,000	5,700	6,350	1	.2.250	. 1,505	10,200
Pennsylvania	13,750	15,250	14,950	Total	96,400	94,050	97,700
Total	59,850	68,700	70,550	Total, South	181,550	181,150	193,800
North Central:				West:			
Ohio	11,650	12,600	11,000	Mountain:			
Indiana	4,700	5,300	5,500	Montana	4,900	4,650	4,900
Illinois	4,100	4,950	4,500	Idaho	7,500	7,500	6,500
Michigan	11,300	11,600	11,250	Wyoming	7,500	500	0,500
Wisconsin	19,800	21,250	21,450	Colorado	1.250	1.300	1.300
Minnesota	6,300	6,200	6,300	New Mexico	1,150	1,150	1,100
lowa	650	700	800	Arizona	1,550	1,950	1,850
Missouri	2,400	3,150	3,300	Utah	500	1,750	1,050
North Dakota	2,700	3,150	3,300	Nevada	300		
South Dakota				li l			
Nebraska				Total	16,950	17,600	16,650
Kansas	500			I Otal	10,750	17,000	10,050
Kalisas	300			Pacific:			
Total	61,800	66,550	64,850	Washington	33,050	33,050	33,100
i Otal	01,800	00,550	04,000	Oregon	46,150	46,400	44,550
Total, North	121,650	135.250	135,400	California	25,950	22,900	25,000
rotar, .vortii	121,050	155,250	155,450	Alaska	1,250	1,400	1,150
South:				Hawaii	1,20	1,400	1,120
Southeast:				II awaii			
Delaware	-	550	500	Total	106,400	103,750	103,900
Maryland	3,400	3,450	3,400	Total	100,400	103,730	103,500
Virginia	16,050	16,550	18,600	Total, West	123,350	121,350	120,550
West Virginia	3,300	4,650	5,050	TOTAL, WEST	143,330	141,330	120,330
North Carolina	21,650	23,600	24,900	Total, United States	426,550	437,750	449,750
South Carolina	10,950	10,950	12.200	Total, Clinea States	420,330	437,730	447,730
Georgia	19,300	17,450	20,100				
Florida	10,050	9,900	11,350				
FIORIGA	10,030	9,900	11,330				
Total	85,150	87,100	96,100				

Less than 500 employees.

Note: Industry composition and definitions are given in Appendix B.

Sources: See table A-19.

Table A-21—Estimated value of shipments from selected manufacturing secondary¹ industries in the United States, by industry and region, 1972, 1967, and 1963

Region	Total	Millwork and prefabricated wood products	Wooden containers	Furniture	Paper and paperboard products
			1972		
North: Northeast North Central	7,599,200 10,871,900	974,500 2,473,900	114,600 182,800	1,859,100 2,451,000	4,651,000 5,764,200
Total	18,471,100	3,448,400	297,400	4,310,100	10,415,200
South: Southeast South Central	6,474,600 5,444,000	1,469,600 1,394,300	126,000 222,100	2,763,750 1,719,250	2,115,250 2,108,350
Total	11,918,600	2,863,900	348,100	4,483,000	4,223,600
West: Mountain Pacific	616,600 4,516,300	409,700 1,362,800	5,500 122,500	127,700 1,190,200	73,700 1,840,800
Total	5,132,900	1,772,500	128,000	1,317,900	1,914,500
Total, United States	35,522,600	8,084,800	773,500	10,111,000	16,553,300
			1967		
North: Northeast North Central	5,727,450 7,483,550	409,900 1,238,600	67,900 84,300	1,440,800 1,837,400	3,808,850 4,323,250
Total	13,211,000	1,648,500	152,200	3,278,200	8,132,100
South: Southeast South Central	3,631,150 2,973,600	471,300 417,400	87,450 172,050	1,712,800 1,082,600	1,359,600 1,301,550
Total	6,604,750	888,700	259,500	2,795,400	2,661,150
West: Mountain Pacific	252,950 2,778,800	113,900 639,500	5,700 112,100	61,700 744,800	71,650 1,282,400
Total	3,031,750	753,400	117,800	806,500	1,354,050
Total, United States	22,847,500	3,290,600	529,500	6,880,100	12,147,300
			1963		
North: Northeast North Central	4,639,800 5,802,350	318,450 921,000	60,700 65,050	1,165,550 1,468,850	3,095,100 3,347,450
Total	10,442,150	1,239,450	125,750	2,634,400	6,442,550
South: Southeast South Central	2,561,900 1,970,600	282,400 266,950	87,100 100,250	1,237,650 731,500	954,750 871,900
Total	4,532,500	549,350	187,350	1,969,150	1,826,650
West: Mountain Pacific	193,300 2,240,750	79,750 518,500	7,150 81,250	52,300 638,700	54,100 1,002,300
Total	2,434,050	598,250	88,400	691,000	1,056,400
Total, United States	17,408,700	2,387,050	401,500	5,294,550	9,325,600

Note: Industry composition and definitions are given in Appendix B.

Sources: U.S. Department of Commerce, Bureau of the Census. 1963, 1967, and 1972 Censuses of Manufactures. Estimates for regions for which no Census information was published were derived from table footnotes and trend data.

Table A-22—Estimated value of shipments from selected secondary manufacturing industries in the United States, by region and State, 1972, 1967, and 1963

Region and State	1972	1967	1963	Region and State	1972	1967	1963
North:		•		South Central:			
Northeast:				Kentucky	390,750	292,400	212,150
Maine	172,050	119,100	79,500	Tennessee	1,136,200	635,600	411,550
New Hampshire	232,750	163,950	115,850	Alabama	828,850	334,700	202,750
Vermont	157,000	103,100	74,300	Mississippi	554,700	316,950	179,150
Massachusetts	981,750	831,800	673,000	Arkansas	603,800	388,600	237,300
Rhode Island	83,900	61,350	49,250	Louisiana	351,300	244,250	186,550
Connecticut	319,000	226,850	192,050	Oklahoma	175,250	72,300	50,850
New York	2.169.250	1,795,850	1,512,600	Texas	1,403,150	688,800	490,300
			854,200	Texas	1,403,130	088,800	490,300
New Jersey	1,350,150	1,001,850		7	5 444 000	2.072.600	1.070.400
Pennsylvania	2,133,350	1,423,600	1,089,050	Total	5,444,000	2,973,600	1,970,600
Total	7,599,200	5,727,450	4,639,800	Total, South	11,918,600	6,604,750	4,532,500
North Central:				West:			
Ohio	1,707,900	1.197,550	1,004,700	Mountain:			
Indiana	1,634,150	1,055,800	796,200	Montana	23,400	10,050	9,100
Illinois	2,159,000	1,544,850	1,208,050	Idaho	154,850	49,350	28,250
Michigan	1,313,150	1,004,050	916,300	Wyoming	600	1,700	1,400
Wisconsin	1,499,700	1,073,050	794,300	Colorado	180,600	86,650	65,250
Minnesota	829,650	593,100	337,900	New Mexico	31,200	16,750	14,000
lowa	390,450	228,000	169,200	Arizona	141,650	51,200	41,650
Missouri	782,400	486,950	369,400	Utah	75,200	32,050	29,650
North Dakota	4,600	1,550	1,450	Nevada	9,100	5,200	4,000
South Dakota	38,050	15,050	9,750	, vevaua	9,100	5,200	4,000
Nebraska	195,450	103,500	64,200	Total	616,600	252,950	193,300
Kansas	317,400	180,100	130,900	Total	616,600	232,930	193,300
Kalisas	317,400	180,100	130,900	Pacific:			
Total	10,871,900	7,483,550	5,802,350	Washington	628,350	379,150	291,650
				Oregon	493,050	262,250	185,650
Total, North	18,471,100	13,211,000	10,442,150	California	3,329,500	2,104,750	1,741,800
		,,		Alaska	2,000	3,100	600
South:				Hawaii	63,400	29,550	21,050
Southeast:				114.1411	05,100	27,550	21,050
Delaware	41,400	32,950	16,200	Total	4,516,300	2,778,800	2,240,750
Maryland	426,950	304,650	247,400	I Otal	4,510,500	2,770,800	2,240,750
Virginia	1,079,500	652,750	483,300	Total, West	5,132,900	3,031,750	2,434,050
		46,400		Total, West	3,132,900	3,031,730	2,434,030
West Virginia	167,050		37,900	Total, United States	35,522,600	22,847,500	17,408,700
North Carolina	1,921,900	1,169,500	794,600	Total, United States	33,322,600	44,047,300	17,408,700
South Carolina	467,550	229,750	173,250				
Georgia	1,331,850	664,600	474,050				
Florida	1,038,400	530,550	335,200				
Total	6,474,600	3,630,150	2,561,900				

Includes the millwork and prefabricated wood products, wooden containers, furniture, and paper and paperboard products industries as shown in table A-21 and defined in Appendix B. Sources: See table A-21.

Table A-23—Estimated value added in selected secondary manufacturing industries in the United States, by industry and region, 1972, 1967, and 1963

Region	Total	Millwork and prefabricated wood products	Wooden containers	Furniture	Paper and paperboard products	Fibers, plastics, and textiles
			19	72		-
North:						
Northeast North Central	9,586,300 6,198,500	448,100 965,900	52,700 86,400	974,800 1,305,200	2,249,900 2,688,100	5,860,800 1,152,900
Total	15,784,800	1,414,000	139,100	2,280,000	4,938,000	7,013,700
South:						
Southeast South Central	10,113,150 4,828,700	537,450 494,050	59,300 107,300	1,469,300 932,400	927,000 922,100	7,120,100
Total	14,941,850	1,031,500	166,600	2,401,700	1,849,100	2,372,850 9,492,950
West:						-,,,-,,-,
Mountain	344,600	153,600	2,000	69,000	35,250	84,750
Pacific	2,928,250	528,300	51,100	644,200	782,750	921,900
Total	3,272,850	681,900	53,100	713,200	818,000	1,006,650
Total, United States	33,999,500	3,127,400	358,800	5,394,900	7,605,100	17,513,300
			19	67		
North:	0.000.200	140.200	24.700	500.000		
Northeast North Central	8,908,200 4,698,650	169,300 472,300	34,700 42,600	760,800 997,600	1,800,200 1,922,000	6,143,200 1,264,150
Total	13,606,850	641,600	77,300	1,758,400	3,722,200	7,407,350
South:						
Southeast South Central	6,888,900 3,403,250	161,100 141,600	43,350 75,650	918,050 540,450	569,650 526,000	5,196,750 2,119,550
Total	10,292,150	302,700	119,000	1,458,500	1,095,650	7,316,300
West:		5021.00	117,000	1,150,500	1,000,000	7,510,500
Mountain	146,150	41,200	2,650	30,900	30,950	40,450
Pacific	1,873,050	259,300	39,650	410,100	525,000	639,000
Total	2,019,200	300,500	42,300	441,000	555,950	679,450
Total, United States	25,918,200	1,244,800	238,600	3,657,900	5,373,800	15,403,100
			19	63		
North:						
Northeast North Central	7,227,350 3,562,900	129,700 348,650	28,000 30,750	610,150 774,500	1,407,950 1,413,300	5,051,550 995,700
Total	10,790,250	478,350	58,750	1,384,650	2,821,250	6,047,250
South:						
Southeast South Central	4,714,750 2,202,500	102,350 98,900	43,100 43,750	642,150 350,350	370,700 305,150	3,556,450 1,404,350
Total	6,917,250	201,250	86,850	992,500	675,850	4,960,800
West:						
Mountain	106,250	29,650	1,950	25,400	23,100	26,150
Pacific	1,441,650	203,850	26,700	343,100	383,150 406,250	484,850 511,000
Total	1,547,900	233,500	28,650	368,500		
Total, United States	19,255,400	913,100	174,250	2,745,650	3,903,350	11,519,050

Note: Industry composition and definitions are given in Appendix B.

Sources: U.S. Department of Commerce, Bureau of the Census. 1963, 1967, and 1972 Censuses of Manufactures. Estimates for regions for which no Census information was published were derived from table footnotes and trend data.

Table A-24—Estimated value added in selected secondary manufacturing industries' in the United States, by region and State, 1972, 1967, and 1963

Region and State	1972	1967	1963	Region and State	1972	1967	1963
North:		•		South Central:			
Northeast:				Kentucky	396,650	302,150	195,450
Maine	159,950	111,150	90,000	Tennessee	1,178,200	928,300	655,050
New Hampshire	153,550	133,000	100,700	Alabama	1,018,900	683,450	438,800
Vermont	69,200	73,000	43,000	Mississippi	518,150	304,350	193,000
Massachusetts	1,073,300	982,900	795,600	Arkansas	414,750	245,900	142,350
Rhode Island	198,100	199,050	149,850	Louisiana	207,000	154,300	92,950
Connecticut	345,350	281,000	230,850	Oklahoma	125,100	63,150	34,950
New York	3,715,500	3,629,600	3,018,750	Texas	969,950	721,650	449,950
New Jersey	1,373,450	1,237,400	1,022,150				
Pennsylvania	2,497,900	2,261,100	1,776,450	Total	4,828,700	3,403,250	2,202,500
Total	9,586,300	8,908,200	7,227,350	Total, South	14,941,850	10,292,150	6,917,250
North Central:				West:			
Ohio	1,054,400	865,000	703,250	Mountain:			
Indiana	823,250	562,700	443,000	Montana	10,400	4,450	3,950
Illinois	1,383,000	1,028,350	788,550	ldaho	61,800	17,100	10,000
Michigan	675,000	592,100	580,250	Wyoming	400	650	600
Wisconsin	718,600	531,100	283,950	Colorado	104,450	46,350	35,250
Minnesota	485,350	362,950	213,650	New Mexico	16,400	8,550	6,600
lowa	220,500	174,450	114,000	Arizona	82,700	38,000	25,500
Missouri	576,250	406,000	315,500	Utah	62,600	28,150	22,100
North Dakota	5,000	500	550	Nevada	5,850	2,900	2,250
South Dakota	23,100	9,900	3,550				
Nebraska	81,950	55,150	35,450	Total	344,600	146,150	106,250
Kansas	152,100	110,450	81,200				
				Pacific:			
Total	6,198,500	4,698,650	3,562,900	Washington	317,300	193,500	138,250
		·		Oregon	232,800	157,900	103,400
Total, North	15,784,800	13,606,850	10,790,250	California	2,315,700	1,493,900	1,183,600
	-			Alaska	1,500	.1,500	300
South:				Hawaii	60,950	26,250	16,100
Southeast:							
Delaware	46,300	57,700	43,250	Total	2,928,250	1,873,050	1,441,650
Maryland	400,800	335,050	269,050				
Virginia	1,136,750	859,400	579,550	Total, West	3,272,850	2,019,200	1,547,900
West Virginia	164,850	215,500	139,700				
North Carolina	3,304,250	2,331,850	1,565,400	Total, United States	33,999,500	25,918,200	19,225,400
South Carolina	1,923,000	1,310,400	929,300				
Georgia	2,441,300	1,430,750	989,100				
Florida	695,900	348,250	199,400				
Total	10,113,150	6,888,900	4,714,750				

Includes the millwork and prefabricated wood products; wooden containers; furniture; paper and paperboard products; and fibers, plastics, and textiles industries as shown in table A-23 and defined in Appendix B.

Sources: See table A-23.

Table A-25—Estimated value added attributed to timber in secondary manufacturing industries in the United States, by industry and region, 1972, 1967, and 1963

Region North: Northeast North Central Total South: Southeast South Central Total West: Mountain Pacific	3,224,350 3,217,400 6,441,750 2,770,800 1,766,150 4,536,950 167,200 1,358,300 1,525,500	Millwork and prefabricated wood products 303,050 608,450 911,500 314,450 281,300 595,750	48,300 78,850 127,150 52,800 96,050 148,850	Furniture 1972 294,150 384,900 679,050 620,750 309,850 930,600	Paper and paperboard products 1,509,450 1,769,500 3,278,950 615,050 606,700 1,221,750	Fibers, plastics, and textiles 923,050 169,400 1,092,450 1,056,850 336,700	206,300 352,650
Northeast North Central Total South: Southeast South Central Total West: Mountain Pacific	3,217,400 6,441,750 2,770,800 1,766,150 4,536,950 167,200 1,358,300	608,450 911,500 314,450 281,300 595,750 96,450	78,850 127,150 52,800 96,050 148,850	294,150 384,900 679,050 620,750 309,850	1,509,450 1,769,500 3,278,950 615,050 606,700	1,092,450 1,056,850	146,350 206,300 352,650
Northeast North Central Total South: Southeast South Central Total West: Mountain Pacific	3,217,400 6,441,750 2,770,800 1,766,150 4,536,950 167,200 1,358,300	608,450 911,500 314,450 281,300 595,750 96,450	78,850 127,150 52,800 96,050 148,850	384,900 679,050 620,750 309,850	1,769,500 3,278,950 615,050 606,700	1,092,450 1,056,850	206,300 352,650
Total South: Southeast South Central Total West: Mountain Pacific	2,770,800 1,766,150 4,536,950 167,200 1,358,300	911,500 314,450 281,300 595,750 96,450	52,800 96,050 148,850	679,050 620,750 309,850	3,278,950 615,050 606,700	1,092,450	352,650
Southeast South Central Total West: Mountain Pacific	1,766,150 4,536,950 167,200 1,358,300	281,300 595,750 96,450	96,050 148,850	309,850	606,700		110,900
South Central Total West: Mountain Pacific	1,766,150 4,536,950 167,200 1,358,300	281,300 595,750 96,450	96,050 148,850	309,850	606,700		
West: Mountain Pacific	167,200 1,358,300	96,450		930,600	1,221,750		135,550
Mountain Pacific	1,358,300		1.000			1,393,550	246,450
		347,100	1,800 46,450	19,950 190,000	24,750 537,300	11,850 130,800	12,400 106,650
Total		443,550	48,250	209,950	562,050	142,650	119,050
Total, United States	12,504,200	1,950,800	324,250	1,819,600	5,062,750	2,628,650	718,150
				1967			
North: Northeast North Central	2,650,300 2,252,300	117,550 294,000	29,000 35,150	266,200 320,900	1,220,750 1,281,100	879,500 145,650	137,300 175,500
Total	4,902,600	411,550	64,150	587,100	2,501,850	1,025,150	312,800
South: Southeast South Central	1,768,500 1,141,150	94,700 79,200	35,400 61,850	437,500 202,350	381,550 356,700	746,850 328,600	72,500 112,450
Total	2,909,650	173,900	97,250	639,850	738,250	1,075,450	184,950
West: Mountain Pacific	73,100 880,900	25,100 167,950	2,250 33,400	9,600 138,800	22,550 363,050	6,300 82,150	7,200 95,550
Total	954,000	193,150	35,650	148,400	385,600	88,450	102,750
Total, United States	8,776,250	778,600	197,050	1,375,350	3,625,700	2,189,050	600,500
				1963			
North: Northeast North Central	2,150,450 1,684,400	93,800 214,200	23,550 25,750	214,400 241,700	972,350 977,250	747,200 117,300	99,150 108,200
Total	3,834,850	308,000	49,300	456,100	1,949,600	864,500	207,350
South: Southeast South Central	1,290,900 773,450	64,050 68,350	36,200 36,650	305,450 131,650	253,750 211,600	585,900 238,550	45,550 86,650
Total	2,064,350	132,400	72,850	437,100	465,350	824,450	132,200
West: Mountain	55,350	19,750	1,650	8,700	16,450	4,350	4,450 65,400
Pacific Total	684,100 739,450	138,450 158,200	22,600	122,100	266,950 283,400	68,600 72,950	69,850
Total, United States	6,638,650	598,600	146,400	1,024,000	2,698,350	1,761,900	409,400

Note: Industry composition and definitions are given in Appendix B.

Sources: Estimates of value added attributed to timber are based on value added by industry, and for most industries, the ratio between the cost of timber products consumed and the cost of all materials consumed. For those industries (generally in the Fibers, plastics, and textiles group) for which materials consumption was not available, ratios were estimated from the values of quantities of final goods produced. All data from the U.S. Department of Commerce, Bureau of the Census, 1967, and 1972 Censuses of Manufactures. For the "all other" grouping estimates derived from the volume of timber products consumed from data in U.S. Department of Agriculture, Forest Service. 1960 and 1965 reports of wood used in manufacturing industries.

Table A-26—Estimated value added attributed to timber in secondary manufacturing industries in the United States, by region and State, 1972, 1967, and 1963

Region and State	1972	1967	1963	Region and State	1972	1967	1963
North:				South Central:			
Northeast:				Kentucky	142,500	83,700	60,900
Maine	89,600	59,400	43,450	Tennessee	393,900	310,850	206,900
New Hampshire	77,850	61,800	44,700	Alabama	283,300	165,300	110,650
Vermont	43,900	39,950	27,400	Mississippi	197,550	136,600	97,800
Massachusetts	426,800	352,650	283,400	Arkansas	193,600	124,800	72,700
Rhode Island	54,250	45,600	35,850	Louisiana	99,450	67,650	48,600
Connecticut	127,850	103,150	86,750	Oklahoma	48,750	24,700	17,400
New York	1,073,500	969,600	812,200	Texas	407,100	227,550	158,500
New Jersey	501,700	386,050	329,100		,		
Pennsylvania	828,900	632,100	487,600	Total	1,766,150	1,141,150	773,450
Total	3,224,350	2,650,300	2,150,450	Total, South	4,536,950	2,909,650	2,064,350
North Central:				West:			-
Ohio	517,950	367,700	290,050	Mountain:			
Indiana	427,350	275,550	198,150	Montana	8,700	4,300	3,550
Illinois	683,500	486,350	368,900	Idaho	32,300	9,600	6,150
Michigan	393,650	298,600	252,750	Wyoming	2,350	1,850	1,250
Wisconsin	431,000	319,700	230,800	Colorado	50,350	25,150	18,750
Minnesota	265,750	181,200	109,400	New Mexico	8,750	5,150	3,850
lowa	124,000	74,600	50,250	Arizona	37,950	16,000	12,200
Missouri	255,550	179,150	134,350	Utah	23,100	9,300	8,150
North Dakota	1,900	1	, , , , , , , , , , , , , , , , , , , ,	Nevada	3,700	1,750	1,450
South Dakota	9,600	4,650	2,550		5,700	-,,,,,	-11.5-
Nebraska	40,250	24,900	16,400	Total	167,200	73,100	55,350
Kansas	66,900	39,450	30,350	10			
· · · · · · · · · · · · · · · · · · ·	00,700	37,150	30,330	Pacific:			
Total	3,217,400	2,252,300	1,684,400	Washington	192,300	119,350	85,150
		-,,	.,,	Oregon	157,450	107,300	71,900
Total, North	6,441,750	4,902,600	3,834,850	California	981,150	640,950	519,200
	-,	.,		Alaska	850	1,200	
South:				Hawaii	26,550	12,100	7,650
Southeast:							
Delaware	18,250	13,600	8,850	Total	1,358,300	880,900	684,100
Maryland	168,900	138,300	102,450				
Virginia	431,750	296,350	214,800	Total, West	1,525,500	954,000	739,450
West Virginia	74,150	48,900	46,800				
North Carolina	819,550	584,550	406,700	Total, United States	12,504,200	8,766,250	6,638,650
South Carolina	416,600	237,950	192,300				
Georgia	542,800	294,550	225,350				
Florida	298,800	154,300	93,650				
Total	2,770,800	1,768,500	1,290,900				

Less than 500 thousand dollars.

Note: Industry composition and definitions are given in Appendix B.

Sources: See table A-25.

Table A-27—Estimated employment in selected secondary manufacturing industries in the United States, by industry and region, 1972, 1967, and 1963

(Number)

Region	Total	Millwork and prefabricated wood products	Wooden containers	Furniture	Paper and paperboard products	Fibers, plastics, and textiles
			19	972		
North:		-				
Northeast North Central	769,350 406,450	28,900 61,500	5,400 8,700	72,350 93,750	131,000 139,600	531,700 102,900
Total	1,175,800	90,400	14,100	166,100	270,600	634,600
South:	224.552					
Southeast South Central	884,550 449,650	40,950 40,350	7,500 11,000	123,800 81,700	53,100 49,200	659,200 267,400
Total	1,334,200	81,300	18,500	205,500	102,300	926,600
West:						
Mountain Pacific	30,700 202,700	11,650 35,950	4,100	5,400 45,700	2,850 37,150	10,600 79,800
Total	233,400	47,600	4,300	51,100	40,000	90,400
Total, United States	2,743,400	219,300	36,900	422,700	412,900	1,651,600
			19	967		
North:						
Northeast North Central	923,500 410,400	15,800 44,000	4,400 5,000	77,600 94,600	141,300 139,600	684,400 127,200
Total	1,333,900	59,800	9,400	172,200	280,900	811,600
South:						
Southeast South Central	821,350 395,050	18,200 17,700	7,550 9,550	105,650 68,050	48,600 37,900	641,350 261,850
Total	1,216,400	35,900	17,100	173,700	86,500	903,200
West:						
Mountain Pacific	17,950 167,450	4,800 24,200	4,450	3,450 37,350	2,300 35,400	7,050 66,050
Total	185,400	29,000	4,800	4,800	37,700	73,100
Total, United States	2,735,700	124,700	31,300	386,700	405,100	1,787,900
			19	963		
North:						
Northeast	926,800	14,200	4,700	74,600	133,850	699,450
North Central Total	384,200 1,311,000	38,150 52,350	5,000 9,700	88,500 163,100	128,300 262,150	124,250 823,700
South:						
Southeast	696,250	13,700	9,100	89,750	40,050 31,350	543,650 214,700
South Central Total	322,250 1,018,500	14,100 27,800	8,000 17,100	54,100 143,850	71,400	758,350
West:	1,010,200	27,000	17,100			
Mountain	14,500	3,850		3,200	2,000	5,150
Pacific	156,050	22,750	3,800	35,800 39,000	32,250 34,250	61,450
Total	170,550	26,600	4,100			
Total, United States	2,500,050	106,750	30,900	345,950	367,800	1,648,650

Less than 500 employees.

Note: Industry composition and definitions are given in Appendix B.

Sources: U.S. Department of Commerce, Bureau of the Census. 1963, 1967, and 1972 Censuses of Manufactures. Estimates for States and regions for which no Census information was published were derived from table footnotes and trend data.

Table A-28-Estimated employment in selected secondary manufacturing industries1 in the United States, by region and State, 1972, 1967, and 1963

(Number) 1972 1967 1963 1972 1967 1963 Region and State Region and State North: South Central: 27,050 33,600 34,100 Northeast: Kentucky Maine 11,800 12,300 12,200 Tennessee 108,150 107,700 89,400 New Hampshire 10,900 13,300 12,850 Alabama 98,000 81,700 67,800 7,500 52,750 35,700 45,850 27,300 37,850 Vermont 6,000 5,200 Mississippi 107,050 106,000 23,500 Massachusetts 82,150 Arkansas Rhode Island 20,400 19,300 16,950 13,850 12,300 15,850 Louisiana Connecticut 27,700 277,850 29,950 30,050 Oklahoma 11,700 8,000 5,400 92,800 76.550 58,950 New York 345,500 361,700 Texas 105,700 114,150 119.200 New Jersey 231,400 273,350 260,300 449,650 395,050 322,250 Pennsylvania 769,350 923,500 1.018,500 Total 926 800 Total South 1 334 200 1 216 400 North Central: Ohio 66,150 70,850 70.350 Mountain: Indiana 54.750 49,950 550 600 58.100 Montana 94,950 1,100 Illinois 90,900 90,250 ldaho 4,400 1,650 Michigan 43,700 50,400 48,850 Wyoming Wisconsin 44.250 44.850 37,300 21,350 Colorado 8.200 4.800 4,150 1,050 Minnesota 27.050 23,400 1.350 1.150 New Mexico 14,500 13,150 10,900 Arizona 8,250 4,950 3,700 lowa Missouri 43,100 41,850 41,800 Utah 7,150 4,400 3,550 North Dakota Nevada 550 350 300 South Dakota 2,000 1,100 350 Nebraska 5,000 4,400 30,700 17,950 14,500 Kansas 10,600 10,000 8,600 Pacific: 406,450 410,400 384,200 Washington 19,800 16,850 14,750 Total 14,600 11,950 Oregon Total, North 1,175,800 1,333,900 1,311,000 California 162,900 132,950 126,950 Alaska Hawaii 2,950 2,350 South: 4,550 Southeast: 156,050 Delaware Maryland 202,700 167,450 3,750 5,150 3,750 Total 35,350 34,400 32,100 100,150 97,650 80,250 Total, West 233,400 185,400 170,550 Virginia West Virginia 13,250 14,900 12,050 2,500,050 North Carolina 319.150 297,500 241.400 Total, United States 2,743,400 2,735,700 144.050 South Carolina 170.500 161.650 169,250 150,450 Georgia 188,850 Florida 56,800 39,900 29,900 Total 884,550 821,350 696,250

Sources: See table A-27.

Includes the millwork and prefabricated wood products; wooden containers; furniture; paper and paperboard products; and fibers, plastics, and textiles industries as shown in table A-27 and defined in Appendix B.

² Less than 500 employees.

Table A-29—Estimated employment attributed to timber in secondary manufacturing industries in the United States, by industry and region, 1972, 1967, and 1963

(Number)

Region	Total	Millwork and prefabricated wood products	Wooden containers	Furniture	Paper and paperboard products	Fibers, plastics, and textiles	All othe
				1972			
North: Northeast	232,600	19,600	4,950	23,450	88,600	84,050	11,950
North Central	200,650	39,200	7,950	30,150	94,600	14,900	13,850
Total	433,250	58,800	12,900	53,600	183,200	98,950	25,80
South: Southeast South Central	224,600	24,400 23,000	6,650 9,850	52,450 28,950	35,450	97,550	8,10
Total	142,950 367,550	47,400	16,500	81,400	32,250 67,700	38,450 136,000	10,45
	307,330	47,400	10,500	01,400	07,700	130,000	10,55
West: Mountain Pacific	13,650 85,950	7,300 23,600	3,700	1,700 14,400	2,050 25,450	1,550 12,450	85 6,35
Total	99,600	30,900	3,900	16,100	27,500	14,000	7,20
Total, United States	900,400	137,100	33,300	151,100	278,400	248,950	51,55
				1967			
North: Northeast North Central	256,250 193,900	11,000 27,200	3,650 4,150	28,750 33,100	96,450 95,650	100,000 16,200	16,400 17,600
Total	450,150	38,200	7,800	61,850	192,100	116,200	34,00
South:							
Southeast South Central	196,850 122,100	10,900 10,650	6,200 7,800	50,700 27,150	32,750 25,300	88,400 38,800	7,90 12,40
Total	318,950	21,550	14,000	77,850	58,050	127,200	20,30
West: Mountain Pacific	7,800 74,050	2,950 15,250	3,750	1,100 13,250	1,600 24,600	1,100 9,050	75 8,15
Total	81,850	18,200	4,050	14,350	26,200	10,150	8,90
Total, United States	850,950	77,950	25,850	154,050	276,350	253,550	63,200
				1963			
North: Northeast	256,600	10,350	3,950	28,000	92,600	107,300	14,400
North Central Total	178,100 434,700	24,050	4,200 8,150	30,350	89,300 181,900	16,800	13,400
South:	.51,700	5 1,100	0,120	20,330	101,700	12.,100	2.,000
Southeast South Central	173,550 104,350	9,050 9,800	7,650 6.700	42,700 21,550	27,450 21,300	80,200 33,950	6,500 11,050
Total	277,900	18,850	14,350	64,250	48,750	114,150	17,550
West: Mountain Pacific	6,850	2,550	1 200	1,100	1,400	900 9,500	600
Total	70,350	15,150	3,200	13,200	22,700	10,400	7,200
Total, United States	789,800	70,950	26,000	136,900	254,750	248,650	52,550

Less than 500 employees.

Note: Industry composition and definitions are given in Appendix B.

Source: Estimates of employment attributed to timber are based on employment by industry, and for most industries, the ratio between the cost of timber products consumed and the cost of all materials consumed. For those industries (generally in the fibers, plastics, and textile group) for which materials consumption was not available, ratios were estimated from the values or quantities of final good produced. All data from the U.S. Department of Commerce, Bureau of the Census, 1963, 1967, and 1972 Censuses of Manfactures. For the "all other" grouping, estimates derived from the volume of timber products consumed data in U.S. Department of Agriculture, Forest Service, 1960 and 1965 reports on wood used in manufacturing industries.

Table A-30—Estimated employment attributed to timber in secondary manufacturing industries in the United States, by region and State, 1972, 1967, and 1963

(Number)

Region and State	1972	1967	1963	Region and State	1972	1967	1963
North:				South Central:			
Northeast:				Kentucky	10,400	9,350	8,200
Maine	6,000	6,650	5,850	Tennessee	31,950	32,100	26,100
New Hampshire	5,600	5,700	5,500	Alabama	22,600	16,900	14,850
Vermont	3,500	3,550	3,150	Mississippi	17,500	16,200	14,150
Massachusetts	29,950	35,550	35,250	Arkansas	14,750	12,200	10,900
Rhode Island	4,000	4,800	4,750	Louisiana	7,200	6,650	6,700
Connecticut	9,450	10,000	10,100	Oklahoma	4,250	2,900	2,450
New York	77,400	89,550	93,750	Texas	34,300	25,800	21,000
New Jersey	33,200	33,200	35,400	16/43	54,500	25,000	21,000
Pennsylvania	63,500	67,250	62,850	Total	142,950	122,100	104,350
Total	232,600	256,250	256,600	Total, South	367,550	318,950	277,900
North Central:				West:			
Ohio	31,600	30,850	30,050	Mountain:			
Indiana	28,900	26,900	23,400	Montana	600	500	550
Illinois	42,900	44,150	40,500	1daho	2,350	850	650
Michigan	24,650	26,550	25,350	Wyoming	1	1	4
Wisconsin	25,300	25,700	22,500	Colorado	3,950	= 2,300	2,100
Minnesota	13,900	11,100	9,800	New Mexico	700	650	550
lowa	7,850	5,950	5,150	Arizona	3,350	1,850	1,500
Missouri	17,600	16,300	15,700	Utah	2,200	1,300	1,150
North Dakota	1	1		Nevada	1		
South Dakota	650						
Nebraska	2,700	2,300	2,050	Total	13,650	7,800	6,850
Kansas	4,450	3,600	3,250				
		-,		Pacific:			
Total	200,650	193,900	178,100	Washington	10,850	10,000	8,700
				Oregon	9,750	9,700	7,650
Total, North	433,250	450,150	434,700	California	63,550	53,000	52,950
Total, Total				Alaska			,
South:				Hawaii	1,750	1,250	1,000
Southeast:							
Delaware	1,350	1,500	950	Total	85,950	74,050	70,350
Maryland	12,250	13,150	11,850		-		
Virginia	35,400	31,250	26,650	Total, West	99,600	81,850	77,200
West Virginia	5,150	4,150	4,250				
North Carolina	76,800	70,600	59,250	Total, United States	900,400	850,950	789,800
South Carolina	33,700	27,800	26,400				
Georgia	37,950	32,500	30,950				
Florida	22,000	15,900	13,250				
Total	224,600	196,850	173,550				

Less than 500 employees.

Note: Industry composition and definitions are given in Appendix B.

Sources: See table A-29.

Table A-31-Value of new construction put in place in the United States, by type, 1963-72

(Million dollars)

				(
Type of construction	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Private:										
Residential buildings	27,874	28,010	27,934	25,715	25,568	30,565	33,200	31,864	43,267	54,288
Nonresidential buildings	11,646	12,955	16,509	18,279	17,589	18,164	21,155	21,417	22,479	24,038
Utilities	4,667	5,031	5,788	6,803	7,603	8,969	9,535	11,020	11,783	13,202
Other	1,268	1,296	1,454	1,610	1,786	1,790	2,063	2,458	2,550	2,373
Total	45,455	47,292	51,685	52,407	52,546	59,488	65,953	66,759	80,079	93,901
Public:										
Buildings	6,534	7,177	7,893	8,920	9,982	10,439	11,230	10,657	11,397	11,500
Highways and streets	7,084	7,133	7,550	8,405	8,591	9,321	9,250	9,981	10,658	10,429
Other	5,739	6,073	6,619	6,682	6,963	7,845	7,484	7,458	7,816	8,255
Total	19,357	20,383	22,062	24,007	25,536	27,605	27,964	28,096	29,871	30,184
Total, all types	64,812	67,675	73,747	76,414	78,082	87,093	93,917	94,855	109,950	124,085

¹ Includes additions and alterations.

Note: Data shown in this table do not include the value of maintenance and repair construction of existing residential and nonresidential structures, estimated at \$20,500 million in 1963, \$24,300 million in 1967, and \$35,000 million in 1972.

Source: U.S. Department of Commerce, Bureau of the Census. Value of new construction put in place. Constr. Reps. C39-76-4, 1976.

Footnotes for Table A-39, page 71.

Sources: Railroad—Estimates of State and regional employment in railroad freight operations were derived by (1) distributing total U.S. employment in railroad transportation from the 1972, 1967, and 1963 editions of Employment and Earnings, published by the U.S. Department of Labor, Bureau of Labor Statistics, using the State and regional distribution of the average number of employees covered by the Railroad Retirement and Railroad Unemployment Insurance Acts and (2) adjusting these estimates by the proportion of total railroad revenues due to freight operations (95.9 percent in 1972, 91.5 percent in 1967, and 88.4 precent in 1963). These ratios were calculated, by region, from data in the 1972, 1967, and 1963 editions of Transport Statistics in the United States published by the U.S. Interstate Commerce Commission. Estimates of value added attributed to timber were derived by adjusting the value added in railroad freight operations by the proportion of total freight revenues that were derived from timber products (13.5 percent in 1972, 12.2 percent in 1967, and 13.8 percent in 1963). These ratios were calculated from data on freight revenues by commodity class and region published by the U.S. Interstate Commerce Commission, Bureau of Accounts in the 1972, 1967, and 1963 editions of Freight Commodity Statistics.

Truck—Estimates of total employment in truck freight transportation and warehousing by State and region were derived from data on total U.S. employment, and State and regional employment covered by State Unemployment Insurance Laws and Unemployment Compensation for Federal Employees programs, published in the U.S. Department of Labor, Bureau of Labor Statistics publications Employment and Earnings and Employment and Wages. Estimates of employment in trucking and warehousing by the proportion of total freight revenues that were derived from timber products (5.7 percent in 1967, and 7.2 percent in 1963). These ratios were calculated from data on freight revenues by commodity class and region published by the U.S. Interstate Commerce Commission, Bureau of Accounts in the 1972, 1967, and 1963 editions of Freight Commodity Statistics.

Water—Estimates of total employment in water freight transportation by State and region were derived from data on total U.S. employment, and State and regional employment covered by State Employment Insurance Laws and Unemployment Compensation for Federal Employees programs, published in the U.S. Department of Labor Statistics publications Employment and Employment and Employment attributed to timber were derived by adjusting the total estimated employment in water transportation by the proportion of total freight revenues that were derived from timber products (10.3 percent in 1972, 11.3 percent in 1967, and 17.1 percent in 1963). These ratios were calculated from data on water freight revenues by commodity class (and region for 1963) published by the U.S. Interstate Commerce Commission, Bureau of Accounts in 1972, 1967, and 1963 editions of Freight Commodity Statistics.

Less than 500 employees.

Table A-32-Housing starts in the United States, by region, 1963-72

(Thousand units)

Region	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
Northeast North Central	271.4 335.9	262.7 346.5	281.3 368.7	215.6 297.3	223.5 343.9	236.4 377.0	212.9 356.6	224.1 301.4	271.0 439.9	334.1 445.3
Total, North	607.3	609.2	650.0	512.9	567.4	613.4	569.5	525.5	710.9	779.4
South	595.8	589.8	588.6	482.9	531.5	633.7	602.9	628.9	883.9	1,067.5
West	431.8	362.0	271.1	200.0	223.0	298.3	327.2	314.5	489.8	531.5
Total, United States	1,634.9	1,561.0	1,509.7	1,195.8	1,321.9	1,545.4	1,499.5	1,469.0	2,084.5	2,378.5

Note: Data may not add to totals due to rounding.

Source: U.S. Department of Commerce, Bureau of the Census, Housing starts. Constr. Rep. Ser. C20-76-8, 1976.

Footnotes for Table A-36, page 67.

Less than \$500,000.

Sources: Railroad—Estimates of total U.S. value added in railroad freight operations were derived by adjusting total value added in railroad transportation from the 1972, 1967, and 1963 editions of the pure-output Structure of the U.S. Economy published by the U.S. Department of Commerce, Bureau of Economic Analysis, by the proportion of total railroad revenues due to freight operations (9.5) percent in 1967, 9.15 percent in 1967, and 88.4 percent in 1963). These ratios were calculated, by region, from dat in the 1972, 1967, and 1963 editions of Transport Statistics in the United States published by the U.S. Interstate Commerce Commission, Bureau of Accounts. The State and regional distribution of value added due to freight operations was based on unpublished data from the U.S. Department of Commerce, Bureau of Economic Analysis showing income in railroad transportation by place of work. Estimates of value added attributed to timber were derived by adjusting the total value added in railroad freight operations by the proportion of total freight revenues that were derived from timber product (13.5 percent in 1972, 12.1 percent in 1967, and 13.8 percent in 1963). These ratios were calculated from data on freight revenues by commodity class and region published by the U.S. Interstate Commerce Commission, Bureau of Accounts in the 1972, 1967, and 1963 editions of Freight Commodity Statistics.

Truck—Estimates of total U.S. value added in truck freight transportation and warehousing were derived from the 1972, 1967, and 1963 editions of the Input-output Structure of the U.S. Economy published by the U.S. Department of Commerce, Bureau of Economic Analysis. State and regional estimates of value added were based on unpublished data from the U.S. Department of Commerce, Bureau of Economic Analysis showing income in trucking and warehousing by place of work. Estimates of value added attributed to timber were derived by adjusting the total value added in trucking and warehousing by the proportion of total freight revenues that were derived from timber products (5.7 percent in 1972, 5.6 percent in 1967, and 7.2 percent in 1963). These ratios were calculated from data on freight revenues by commodity class and region published by the U.S. Interstate Commerce Commission, Bureau of Accounts in the 1972, 1967, and 1963 editions of Freight Commodity Statistics.

Water—Estimates of total U.S. value added in water freight transportation were derived from the 1972, 1967, and 1963 editions of the Input-out Structure of the U.S. Economy published by the U.S. Department of Commerce, Bureau of Economic Analysis. State and regional estimates of value added were based on unpublished data from the U.S. Department of Commerce, Bureau of Economic Analysis showing income in water transportation by place of work. Estimates of value added attributed to timber were derived by adjusting the value added in water transportation by the proportion of total domestic freight revenues for inland, coastal, and maritime carriers by water that were derived from timber products (10.3 percent in 1972, 11.3 percent in 1967, and 17.1 percent in 1963). These ratios were calculated from data on water freight revenues by commodity class (and region for 1963) published by the U.S. Interstate Commerce Commission, Bureau of Accounts in the 1972, 1967, and 1963 editions of Freight Commodity Statistics.

Sources for Table A-37, page 68.

Sources: Retail trade—Estimates of total U.S. value added were derived from unpublished data on gross product originating in retail trade from the U.S. Department of Commerce, Bureau of Economic Analysis, and various issues of the Survey of Current Business published by the U.S. Department of Commerce, containing the "National income and product accounts of the United States." Estimates for States and regions were derived by distributing total value added according to total employee compensation in retail trade from payroll data in the 1972, 1967, and 1963 Censuses of Retail Trade. Estimates of value added attributed to timber were calculated by adjusting total value added in retail trade by the estimated proportion of sales that were derived from timber products. These ratios were calculated, by State, from data on sales by merchandise line from the 1972, 1967, and 1963 Censuses of Retail Trade.

Wholesale trade—Estimates of total U.S. value added were derived from unpublished data on gross product originating in wholesale trade from the U.S. Department of Commerce, Bureau of Economic Analysis, and various issues of the Survey of Current Business published by the U.S. Department of Commerce, containing the "National income and product accounts of the United States." Estimates for States and regions were derived by distributing total value added according to total employee compensation in wholesale trade from payroll data in the 1972, 1967, and 1963 Censuses of Wholesale Trade. Estimates of value added attributed to timber were derived by adjusting total value added by the estimated proportion of total sales that were derived from timber products. These ratios were calculated from data on sales by commodity class and region from the Censuses of Wholesale Trade. Separate estimates were made for merchant wholesalers, and merchandise agents and brokers, and manufacturer's sales branches and sales offices, and incorporated in the final ratios for all wholesale trade.

Table A-33.—Estimated value added and value added attributed to timber in construction in the United States, by region and State, 1972, 1967, and 1963 (Thousand dollars)

	1972	2	1961	7	1963			1972	7.2	1961	19	1963	13
	Value added	dded	Value added	pappi	Value added	lded		Value added	added	Value	Value added	Value added	added
Region and State	Total	Attributed to timber	Total	Attributed to timber	Total	Attributed to timber	Region and State	Total	Attributed to timber	Total	Attributed to timber	Total	Attributed to timber
North:													
Northeast:	316.200	20.600	166.100	19.950	126,900	19.700	South Central: Kentucky	911,900	118,500	557,550	006'99	444,950	57,850
New Hampshire	317,300	57,100	158,100	25,300	110,450	17,150	Tennessee	1,302,650	169,350	789,600	102,650	586,450	76,200
Vermont	2.487.150	323.550	1.384,850	180,000	1.128,800	8,000	Mississippi	518,750	83,000	306,500	42,900	217,950	28,350
Rhode Island	387,850	50,450	240,800	33,700	176,750	27,400	Arkansas	509,200	81,500	306,650	39,900	232,600	30,250
Connecticut New York	6.590,800	856,800	4,502,650	918,650	4,310,100	000,107	Oklahoma	884,500	123,850	510,200	61,200	490,800	63,800
New Jersey	2,725,300		1,821,700	273,300	1,498,800	232,300	Texas	5,018,400	702,600	3,051,550	335,650	2,171,350	282,250
remsylvania	4,040,400	000,155	0,012,010,0	000,100	000,027,2	248,100	Total	11,573,300	1,604,600	7,067,150	834,600	5,083,250	008'099
Total	18,959,250	2,533,650	12,279,200	1,973,550	10,445.500	1,644,450	Total, South	24,447,550	3,813,250	13,875,200	1,801,050	10,256,300	1,339,400
North Central:	3 650 250	648 900	2 572 700	114 450	1 917 300	295 250	West: Mountain:						
Indiana	1,754,050	245,550	1,210,550	157,400	833,000	128,300	Montana	218,350	26,200	141,700	17,000	139,700	23,050
Illinois	4,624,700	693,700	3,274,850	327,500	2,503,550	385,550	Idaho	345,300	44,900	206,050	20,600	171,350	28,300
Michigan	3.065,700	459,850	2,192,850	307,000	1,470,550	226,450	Wyoming	1 368 950	18,100	06,67	86,650	577 400	16,700
Minnesota	1,561,250	202,950	1.054.650	84,400	811,650	125,000	New Mexico	345,300	65,600	182,350	23,750	186,050	30,650
lowa	793,850	103,200	634,300	82,450	467,000	71,950	Arizona	1,247,000	274,350	386,350	54,050	418,550	69,100
Missouri	1,616,100	258,550	1,084,550	151,850	945,000	145,100	Utah	485,750	72,850	233,500	25,650	262,450	43,300
South Dakota	050,050	20,730	17 000	12,800	54,200	22,200	ivevada	416,300	05,50	064,027	04,330	363,600	050,50
Nebraska	581,550	87,250	373,950	41,150	342,700	52,800	Total	4,577,500	831,600	2,069,950	256,060	2,242,450	370,000
Kansas	724,400	101,450	485,550	53,400	470,000	72,400	Pacific:						
Total	20,153,500	2,968,750	14,137,300	1,715,300	10,818,200	1,665,600	Washington	1,339,450	174,100	1,028,500	133,750	436,400	120,250
Total, North	39,112,750	5,502,400	26,416,500	3,688,850	21,263,700	3,310,050	California	8,513,500	1,362,200	5,689,300	739,600	5,932,950	978,900
							Alaska Hawaii	537,400	96,650	261,850	44,550	199,750	33,000
South:							Total	11,463,600	1,800,000	7,608,250	986,850	7,376,450	1,217,150
Delaware	356,400	39,200	268,400	21,450	227,250	29,500	Total, West	16,041,100	2,631,600	9.678.200	1.242.900	9.618.900	1,587,150
Maryland	1,967,350	295,000	1,032,200	154,850	835,300	108,600							
Virginia	1,696,550	305,400	978,350	156,550	846,900	110,100	Total, United States	79,601,400	11,947,250	49,969,900	6,732,800	41,138,900	6,236,600
West virginia	423,130	•	004,780	23,000	684 950	23,900							
South Carolina	972,250		636,100	76,350	405,050	58,800							
Georgia	1,800,050		981,050	127,550	695,600	90,450							
F-1-1	036 120 61	0370000	030 000	000,000	030 (21.3	000 000							
Lotal	12,8/4,230	7,208,650	0,808,050	966,430	050,8/1,5	0/8/900							

Note: The data shown in this table are estimates of total value added in construction including value added for establishments classified in the construction industries (SIC's 15, 16, and 18) and those engaged in construction of creed in nonconstruction establishment for itself, or by other entities such as Federal, State, or local governments, or individual property owners for themselves. Value added in both new and repair construction is included.

Sources: Estimates of construction industry value added for 1972 and 1967 (572.4 billion and \$45.0 billion, rspectively), by State and region, were derived from data in the U.S. Department of Commerce, Bureau of the Census, 1972 and 1967 Censuses of construction industries. Estimates of construction industry value added for 1963 (\$33.7 billion) were based on the value added by State calculated for 1967 modified by the ratio of State income from contract construction in 1963 to State income from contract construction in 1963 to State income from unpublished tabulations of the U.S. Department of Commerce, Bureau of Economic Analysis. Estimates of nonconstruction industry value added (\$7.2 billion in 1967, \$5.0 billion in 1967, and \$7.4 billion in 1963) were based on data in Economics of the construction industry published by the Conference Board, and distributed by State according to construction industry value added. Estimates of value added attributed to timber in construction and State. These ratios were derived ackledulated from total construction materials cost by type of construction and State. These ratios were derived from data contained in reports on labor and materials requirements in various types of construction bublished by the U.S. Department of Labor Bureau of Labor Statistics, and the volume of construction by percontained in the 1973 ensures of construction industries. Estimates of value added attributed to timber to 1963 were based on the 1967 State ratios modified to account for trends in timber products us. ed by type of construction and total value added by State.

Table A-34.—Estimated employment and employment attributed to timber in construction in the United States, by region and State, 1972, 1967, and 1963

Number)

	7/61	1				COX			7/61		1967		1963
	Emplo	Employment	Empl	Employment	Empl	Employment		Emple	Employment	Emplo	Employment	Emplo	Employment
Region and State	Total	Attributed to timber	Total	Attributed to timber	Total	Attributed to timber	Region and State	Total	Attributed to timber	Total	Attributed to timber	Total	Attributed to timber
North:							South Central:	031.15	0300	23 450	003 6	036 06	031.0
Maine	27.650	4.450	21.150	2.550	20.550	3.150	Tennessee	111.850	15,650	98 450	12,800	80 700	0,130
New Hampshire	25,350	4,550	17,550	2,850	16,100	2,500	Alabama	85,450	12,000	71,100	8,500	63,400	8,250
Vermont	13,600	2,600	10,800	2,050	9,250	1,400	Mississippi	48,650	7,800	36,500	5,100	39,650	5,200
Massachusetts Phoda Island	35 400	18,950	123,400	16,050	123,100	2 950	Arkansas	49,550	7,900	000,14	5,350	46,200	6,050
Connecticut	79,450	0,300	73,700	0,300	82.850	12.850	Coulsiana	74 900	13,630	000,16	0011	62.100	0,300
New York	360,650	46,850	363,400	47,200	384,600	59,650	Texas	400,600	56,100	327,100	36.000	255.350	33.150
New Jersey Pennsylvania	155,400	23,300	149,300	22,400	147,800	22,950	Total	946,900	132,850	787,750	93,400	696,850	90,650
Total	1,131,150	151,650	1,067,450	142,350	1,019,200	158,000	Total, South	1,965,250	307,550	1,536,650	173,650	1,389,200	180,650
							West:						
North Central: Ohio	238.100	35.700	217.500	28.300	196.050	30.200	Montana Montana	15,300	1.800	13.750	1.700	19.250	3.150
Indiana	119,600	16,750	108,300	14,050	94,250	14,650	Idaho	23,550	3,050	16,150	1,600	13,850	2,250
Illinois	256,600	38,450	246,500	24,650	219,350	33,800	Wyoming	8,000	1,000	6,350	- ;	12,500	2,100
Michigan	173,900	26,100	166,900	23,350	139,100	21,400	Colorado	95,550	17,200	57,400	8,050	57,300	9,450
Minnesota	98.150	12.750	88.700	7,100	77.800	11.950	Arizona	65,530	14,400	33,100	4,600	43.400	7.200
Iowa	00,100	7,800	64,100	8,350	26,000	8,600	Utah	32,100	4,850	21,700	2,400	27,500	4,500
Missouri	109,850	17,600	103,300	14,450	105,850	16,300	Nevada	22,000	4,400	15,450	1,700	22,200	3,650
North Dakota	14,100	1,550	13,050	1,300	17,300	2,700	Total	290,950	52,200	183,450	22,950	222,550	36,700
Nebraska	40.750	000,1	36 700	4 050	39 700	0019							
Kansas	53,800	7,550	50,900	2,600	54,400	8,350	Pacific:						
Total	1,272,200	187,000	1,196,550	145,650	1,102,950	006'691	Washington	81,550	10,600	81,200	10,550	65,350	10,800
Total North	2 403 350	138 650	3 364 000	388 000	2 122 150	327 900	California	445.650	0,630	389 950	51,850	478 350	78 900
Total transfer	000,004,2	ocotocc	2001	201007	2,122,12	000,125	Alaska Hawaii	9,100	1,250	5,650	3,300	6,550	1,100
South:							Total	618,500	96,850	548,550	71,300	617,400	101,900
Southeast:	33 700	3 550	24.650	3,000	19 050	3 500							
Maryland	128,850	19,350	06,66	15,000	98,650	12,800	Total, West	909,450	149,050	732,000	94,250	839,950	138,600
Virginia	141,750	25,500	116,800	14,000	119,700	15,550	Total, United States	5.278.050	795,250	4.532.650	555.900	4.351.300	647,150
West Virginia	29,750	3,850	29,350	4,100	28,250	3,650							
South Carolina	92,100	13 850	69 100	8 300	52 150	13,930							
Georgia	147,450	25,050	112,650	13,550	94,100	12,250							
Florida	290,450	28,100	166,850	6,450	173,100	22,500							

Less than 500 employees.

Note: The data shown in this table are estimates of total construction employment, including employees of establishments classified in the construction industries (SIC's 15, 16, and 18) and those engaged in construction activity performed by the abor force of a nonconstruction establishment for itself, or local governments, or individual property owners for themselves. Employment in both new and an administration property owners for themselves. Employment in both new

Labor Statistics, 1972 and 1997 Censuses of construction midsories. Estimates of construction industry employment (or 1963 (33.6 million) were based on the number of employees in contract construction industry employment (or 1963 (33.6 million) were based on the number of employees in contract to construction construction industry employment (or 1963 (33.6 million) were based on the number of employees in contract to construction employment (or 1963 (33.6 million) were based on the number of employees in contract to construction employment (or 1963 (or 1963 (33.6 million)) were based on data in *Economics of the construction industry* published by the construction industry employment (of 1963 (000 in 1972, 430.000 in 1972, and 1960,000 in 1953, are based on data in *Economics of the construction industry* published by the construction materials cost to call construction materials cost by type of construction and State. The ratios of construction on bullshed by the U.S. Department of Labor, Bureau of Labor Statistics, and the volume of construction by type contained in reports on labor and materials requirements in various types of construction published by the U.S. Department of Labor, Bureau of Labor Statistics, and the volume of construction by type contained in the 1972 *Crossusce of construction industries*. Estimates of employment attributed to timber for 1963 were based on the State ratios for 1967 modified to account for trends in timber products use by type of construction and total employment by State. Sources: Estimates of construction industry employment for 1972 and 1967 (84.8 million, respectively), by State and region, were derived from data in the U.S. Department of Commerce, Bureau of

Table A-35.—Estimated value added and value added attributed to timber in transportation and marketing in the United States, by region and State, 1972, 1967, and 1963

					(1110432	ind donars)						
			197	2					196	57		
	Total		Transport	ation	Market	ing	Total		Transport	tation	Marketi	ng
Region and State	Value added	Value added attributed to timber	Value added	Value added attributed to timber	Value added	Value added attributed to timber	Value added	Value added attributed to timber	Value added	Value added attributed to timber	Value added	Value added attributed to timber
North:								,				
Northeast:		***		0.000			102 000	21.000				
Maine	599,000	28,000	126,000	9,000	473,000	19,000	492,000	21,000	85,000	6,000	407,000	15,000
New Hampshire Vermont	600,000 353,000	31,000 18,000	59,000 54,000	4,000 4,000	541,000 299,000	27,000 14,000	343,000 211,000	16,000 10,000	34,000 33,000	2,000 2,000	309,000 178,000	14,00 8,00
Massachusetts	5,706,000	250,000	654,000	42,000	5,052,000	208,000	3,836,000	183,000	444,000	29,000	3,392,000	154,00
Rhode Island	786,000	37,000	96,000	6,000	690,000	31,000	540,000	25,000	66,000	4,000	474,000	21,00
Connecticut	2,841,000	137,000	293,000	19,000	2,548,000	118,000	1,846,000	91,000	200,000	16,000	1,646,000	75,00
New York	20,021,000	965,000	2,384,000 1,437,000	174,000 95,000	17,637,000 6,664,000	791,000 242,000	14,815,000 4,949,000	831,000	2,091,000 932,000	167,000	12,724,000	664,00
New Jersey Pennsylvania	8,101,000 10,598,000	337,000 458,000	2,115,000	149,000	8,483,000	309,000	7,304,000	234,000 348,000	1,472,000	66,000 104,000	4,017,000 5,832,000	168,00 244,00
Total	49,605,000	2,261,000	7,218,800	502,000	42,387,000	1,759,000	34,336,000	1,759,000	5,357,000	396,000	28,979,000	1,363,000
North Central:												
Ohio	10,202,000	418,000	1,977,000	135,000	8,225,000	283,000	6,855,000	326,000	1,257,000	87,000	5,598,000	239,00
Indiana	4,613,000	191,000	849,000	58,000	3,764,000	133,000	3,098,000	138,000	548,000	36,000	2,550,000	102,00
Illinois Michigan	12,764,000 7,657,000	543,000 307,000	2,220,000 1,043,000	157,000 70,000	10,544,000 6,614,000	386,000 237,000	9,110,000 5,194,000	376,000 227,000	1,607,000 708,000	112,000 47,000	7,503,000 4,486,000	264,00 180,00
Wisconsin	3,772,000	182,000	633,000	58,000	3,139,000	124,000	2,473,000	124,000	382,000	36,000	2,091,000	88,00
Minnesota	3,898,000	207,000	713,000	78,000	3,185,000	129,000	2,504,000	131,000	424,000	46,000	2,080,000	85,00
Iowa	2,511,000	109,000	471,000	46,000	2,040,000	63,000	1,621,000	75,000	262,000	27,000	1,359,000	48,00
Missouri	4,923,000	230,000	955,000	94,000	3,968,000	136,000	3,382,000	169,000	617,000	60,000	2,765,000	109,00
North Dakota	531,000	28,000	99,000	12,000	432,000	16,000	352,000	17,000	62,000	8,000	290,000	9,00
South Dakota Nebraska	486,000 1,526,000	19,000 83,000	88,000 385,000	7,000 46,000	398,000 1,141,000	12,000 37,000	313,000 974,000	13,000 54,000	43,000 217,000	4,000 27,000	270,000 757,000	9,00 27,00
Kansas	2,048,000	109,000	516,000	61,000	1,532,000	48,000	1,304,000	71,000	322,000	38,000	982,000	33,00
Total	54,931,000	2,426,000	9,949,000	822,000	44,982,000	1,604,000	37,180,000	1,721,000	6,449,000	528,000	30,731,000	1,193,00
Total, North	104,536,000	4,687,000	17,167,000	1,324,000	87,369,000	3,363,000	71,516,000	3,480,000	11,806,000	924,000	59,710,000	2,556,00
outh:												
Southeast: Delaware	642,000	24,000	84,000	6,000	558,000	18,000	413,000	19,000	64,000	6,000	349,000	13,00
Maryland	4,517,000	191,000	704,000	50,000	3,813,000	141,000	3,000,000	140,000	498,000	36,000	2,502,000	104,00
Virginia	3,919,000	256,000	774,000	79,000	3,145,000	177,000	2,323,000	133,000	491,000	51,000	1,832,000	82,00
West Virginia	1,234,000	68,000	301,000	35,000	933,000	33,000	832,000	52,000	218,000	26,000	614,000	26,00
North Carolina	4,338,000	228,000	830,000	64,000	3,508,000	164,000	2,524,000	136,000	471,000	36,000	2,053,000	100,00
South Carolina	1,744,000 4,530,000	94,000 258,000	305,000 782,000	28,000 74,000	1,439,000 3,748,000	66,000 184,000	972,000 2,633,000	49,000 145,000	158,000 454,000	14,000 42,000	814,000 2,179,000	35,00 103,00
Georgia Florida	6,876,000	318,000	862,000	79,000	6,014,000	239,000	3,675,000	175,000	447,000	43,000	3,228,000	132,00
Total	27,800,000	1,437,000	4,642,000	415,000	23,158,000	1,022,000	16,372,000	849,000	2,801,000	254,000	13,571,000	595,00
South Central:												
Kentucky	2,339,000	123,000	524,000	59,000	1,815,000	64,000	1,422,000	81,000	324,000	36,000	1,098,000	45,00
Tennessee	3,515,000	171,000	689,000	61,000	2,826,000	110,000	2,083,000	109,000	394,000	37,000	1,689,000	72,00
Alabama Mississippi	2,433,000 1,151,000	144,000 65,000	480,000 253,000	47,000 24,000	1,953,000 898,000	97,000 41,000	1,468,000 757,000	82,000 43,000	296,000 136,000	29,000 14,000	1,172,000 621,000	53,00 29,00
Arkansas	1,323,000	73,000	310,000	32,000	1,013,000	41,000	793,000	41,000	186,000	18,000	607,000	23,00
Louisiana	3,130,000	164,000	756,000	75,000	2,374,000	89,000	2,051,000	118,000	548,000	57,000	1,503,000	61,00
Oklahoma	1,985,000	90,000	339,000	28,000	1,646,000	62,000	1,199,000	55,000	182,000	15,000	1,017,000	40,00
Texas	10,824,000	516,000	1,901,000	179,000	8,923,000	337,000	6,565,000	326,000	1,247,000	120,000	5,318,000	206,00
Total	26,700,000	1,346,000	5,252,000	505,000	21,448,000	841,000	16,338,000	855,000	3,313,000	326,000	13,025,000	529,00
Total, South	54,500,000	2,783,000	9,894,000	920,000	44,606,000	1,863,000	32,710,000	1,704,000	6,114,000	580,000	26,596,000	1,124,00
/est: Mountain:												
Montana	651,000	44,000	175,000	22,000	476,000	22,000	423,000	24,000	107,000	13,000	316,000	11,00
Idaho	643,000	40,000	132,000	15,000	511,000	25,000	393,000	20,000	74,000	9,000	319,000	11,00
Wyoming	312,000	20,000	102,000	13,000	210,000	7,000	190,000	12,000	64,000	8,000	126,000	4,00
Colorado	2,335,000	120,000	328,000	31,000	2,007,000	89,000	1,322,000	65,000	210,000	21,000	1,112,000	44,00
New Mexico Arizona	732,000 1,618,000	40,000 78,000	122,000 171,000	13,000 17,000	610,000 1,447,000	27,000 61,000	452,000 857,000	24,000 38,000	84,000 102,000	9,000 11,000	368,000 755,000	15,00 27,00
Utah	998,000	55,000	220,000	22,000	778,000	33,000	612,000	38,000	139,000	15,000	473,000	22,00
Nevada	528,000	25,000	66,000	7,000	462,000	18,000	303,000	15,000	43,000	5,000	260,000	10,00
Total	7,817,000	422,000	1,316,000	140,000	6,501,000	282,000	4,552,000	235,000	823,000	91,000	3,729,000	144,00
Pacific:		222.25							202.00	05-	1 901 000	111.00
Washington	3,316,000	232,000	569,000	59,000	2,747,000	173,000		155,000	395,000	41,000	1,881,000	114,00 99,00
Oregon California	2,395,000 20,550,000	189,000 925,000	448,000 2,558,000	44,000 233,000	1,947,000 17,992,000	145,000 692,000	1,498,000 13,737,000	129,000 677,000	290,000 1,725,000	30,000 162,000	1,208,000	515,00
Alaska	302,000	17,000	43,000	3,000	259,000	14,000	160,000	8,000	26,000	2,000	134,000	6,00
Hawaii	755,000	32,000	75,000	6,000	680,000	26,000	445,000	21,000	54,000	5,000	391,000	16,00
Total	27,318,000	1,395,000	3,693,000	345,000	23,625,000	1,050,000	18,116,000	990,000	2,490,000	240,000	15,626,000	750,000
Total, West	35,135,000	1,817,000	5,009,000	485,000	30,126,000	1,332,000	22,668,000	1,225,000	3,313,000	331,000	19,355,000	894,00
Total, United States	194,171,000	9,287,000	32,070,000	2,729,000	162,101,000	6,558,000	126,894,000	6,409,000	21,233,000	1,835,000	105,661,000	4,574,00

Sources: See tables A-36 and A-37.

Table A-35.—Estimated value added and value added attributed to timber in transportation and marketing in the United States, by region and State, 1972, 1967, and 1963

(Thousand dollars)

			196	53		
	Total		Transpor	tation	Market	ing
Region and State	Value added	Value added attributed to timber	Value added	Value added attributed to timber	Value added	Value added attributed to timber
North:						
Northeast:	201.000	35,000	71 000	12.000	110,000	13.000
Maine Now Hampshire	391,000 245,000	25,000 14,000	73,000 29,000	13,000 3,000	318,000 216,000	12,000 11,000
New Hampshire Vermont	154,000	10,000	32,000	5,000	122,000	5,000
Massachusetts	2,995,000	184,000	376,000	46,000	2,619,000	138,000
Rhode Island	407,000	24,000	53,000	6,000	354,000	18,000
Connecticut	1,366,000	80,000	161,000	22,000 195,000	1,205,000	58,000
New York New Jersey	11,895,000 3,708,000	741,000 207,000	1,778,000 712,000	67,000	10,117,000 2,996,000	546,000 140,000
Pennsylvania	5,685,000	309,000	1,256,000	114,000	4,428,000	195,000
Total	26,845,000	1,594,000	4,470,000	471,000	22,375,000	1,123,000
North Central:						
Ohio	5,184,000	258,000	1,018,000	81,000	4,166,000	177,000
Indiana	2,290,000	113,000 336,000	435,000	32,000 101,000	1,855,000 5,493,000	81,000 235,000
Illinois Michigan	6,816,000 3,695,000	171,000	1,323,000 535,000	45,000	3,160,000	126,000
Wisconsin	1,846,000	116,000	304,000	45,000	1,542,000	71,000
Minnesota	1,920,000	132,000	336,000	61,000	1,584,000	71,000
lowa	1,239,000	75,000	214,000	38,000	1,025,000	37,000
Missouri	2,635,000	135,000	500,000	48,000	2,135,000	87,000
North Dakota South Dakota	288,000 263,000	20,000 15,000	54,000 39,000	11,000 6,000	234,000 224,000	9,000 9,000
Nebraska	789,000	49,000	193,000	25,000	596,000	24,000
Kansas	1,033,000	61,000	265,000	34,000	768,000	27,000
Total	27,998,000	1,481,000	5,216,000	527,000	22,782,000	954,000
Total, North	54,843,000	3,075,000	9,686,000	998,000	45,157,000	2,077,000
South:						
Southeast:						
Delaware	294,000	16,000	50,000	4,000	244,000	12,000
Maryland Virginia	2,308,000 1,728,000	119,000 90,000	408,000 383,000	36,000 29,000	1,900,000 1,345,000	83,000 61,000
West Virginia	660,000	32,000	179,000	12,000	481,000	20,000
North Carolina	1,770,000	100,000	333,000	32,000	1,437,000	68,000
South Carolina	674,000	38,000	117,000	13,000	557,000	25,000
Georgia	1,842,000	110,000	354,000	41,000	1,488,000	69,000
Florida Total	2,526,000	629,000	322,000 2,146,000	39,000	9,656,000	85,000 423,000
South Central:						
Kentucky	1,087,000	71,000	262,000	36,000	825,000	35,000
Tennessee	1,505,000	89,000	301,000	34,000	1,204,000	55,000
Alabama	1,111,000	69,000	241,000	30,000	870,000	39,000
Mississippi	562,000	35,000	111,000	14,000	451,000	21,000
Arkansas Louisiana	606,000 1,468,000	34,000 96,000	145,000 401,000	14,000 52,000	461,000 1,067,000	20,000 44,000
Oklahoma	959,000	48,000	148,000	13,000	811,000	35,000
Texas	4,944,000	264,000	942,000	99,000	4,002,000	165,000
Total	12,242,000	706,000	2,551,000	292,000	9,691,000	414,000
Total, South	24,044,000	1,335,000	4,697,000	498,000	19,347,000	837,000
West:						
Mountain: Montana	140,000	20.000	00.000	10.000	260.000	11.00
Idaho	348,000 328,000	29,000 19,000	88,000 72,000	18,000 9,000	260,000 256,000	11,000
Wyoming	177,000	12,000	59,000	8,000	118,000	4,000
Colorado	1,072,000	59,000	186,000	21,000	886,000	38,000
New Mexico	388,000	23,000	75,000	9,000	313,000	14,000
Arizona Utah	683,000	34,000 35,000	89,000	10,000 14,000	594,000 400,000	24,000 21,000
Nevada	511,000 231,000	14,000	111,000 37,000	4,000	194,000	10,000
Total	3,738,000	225,000	717,000	93,000	3,021,000	132,000
Pacific:						
Washington	1,680,000	140,000	300,000	49,000	1,380,000	91,00
Oregon	1,133,000	109,000	223,000	36,000	910,000	73,000
California	10,608,000	610,000	1,374,000 22,000	155,000	9,234,000	455,00
Alaska Hawaii	588,000 314,000	27,000 19,000	44,000	3,000 5,000	566,000 270,000	24,00 14,00
Total	14,323,000	905,000	1,963,000	248,000	12,360,000	657,000
Total, West	18,061,000	1,130,000	2,680,000	341,000	15,381,000	789,000
Total, United States	_	5,540,000	17,063,000	1,837,000	79,885,000	3,703,000
- Total, Omica States	70,740,000	3,340,000	27,005,000	1,057,000	.,,005,000	5,705,000

Sources: See tables A-36 and A-37.

Table A-36—Estimated value added and value added attributed to timber in transportation in the United States, by industry and region, 1972, 1967, and 1963

	To	otal	Rai	Iroad	Tr	uck	Wa	ater
Region	Value added	Value added attributed to timber	Value added	Value added attributed to timber	Value added	Value added attributed to timber	Value added	Value added attributed to timber
				19	72			
North: Northeast North Central	7,218,000 9,949,000	502,000 822,000	1,691,000 3,757,000	148,000 457,000	4,673,000 5,914,000	266,000 337,000	854,000 278,000	88,000 28,000
Total	17,167,000	1,324,000	5,448,000	605,000	10,587,000	603,000	1,132,000	116,000
South: Southeast South Central	4,642,000 5,252,000	415,000 505,000	1,359,000 1,580,000	209,000 264,000	2,878,000 2,959,000	164,000 168,000	405,000 713,000	42,000 73,000
Total	9,894,000	920,000	2,939,000	473,000	5,837,000	332,000	1,118,000	115,000
West: Mountain Pacific	1,316,000 3,693,000	140,000 345,000	591,000 1,033,000	99,000 172,000	722,000 2,206,000	41,000 126,000	3,000 454,000	47,000
Total	5,009,000	485,000	1,624,000	271,000	2,928,000	167,000	457,000	47,000
Total, United States	32,070,000	2,729,000	10,011,000	1,349,000	19,352,000	1,102,000	2,707,000	278,000
		***************************************		19	67			
North: Northeast North Central	5,357,000 6,449,000	396,000 528,000	1,452,000 2,776,000	118,000 310,000	2,885,000 3,470,000	162,000 195,000	1,020,000 203,000	116,000 23,000
Total	11,806,000	924,000	4,228,000	428,000	6,355,000	357,000	1,223,000	139,000
South: Southeast South Central	2,801,000 3,313,000	254,000 326,000	965,000 1,054,000	134,000 163,000	1,556,000 1,631,000	88,000 92,000	280,000 628,000	32,000 71,000
Total	6,114,000	580,000	2,019,000	297,000	3,187,000	180,000	908,000	103,000
West: Mountain Pacific	823,000 2,490,000	91,000 240,000	441,000 738,000	69,000 115,000	381,000 1,291,000	22,000 73,000	1,000 461,000	52,000
Total	3,313,000	331,000	1,179,000	184,000	1,672,000	95,000	462,000	52,000
Total, United States	21,233,000	1,835,000	7,426,000	909,000	11,214,000	632,000	2,593,000	294,000
<u> </u>				19	63			
North: Northeast North Central	4,470,000 5,216,000	471,000 527,000	1,370,000 2,462,000	168,000 314,000	2,283,000 2,602,000	163,000 187,000	817,000 152,000	140,000 26,000
Total	9,686,000	998,000	3,832,000	482,000	4,885,000	350,000	969,000	166,000
South: Southeast South Central	2,146,000 2,551,000	206,000 292,000	838,000 938,000	93,000 135,000	1,109,000 1,197,000	79,000 86,000	199,000 416,000	34,000 71,000
Total	4,697,000	498,000	1,776,000	228,000	2,306,000	165,000	615,000	105,000
West: Mountain Pacific	717,000 1,963,000	93,000 248,000	396,000 622,000	70,000 119,000	320,000 1,012,000	23,000 72,000	1,000 329,000	57,000
Total	2,680,000	341,000	1,018,000	189,000	1,332,000	95,000	330,000	57,000
Total, United States	17,063,000	1,837,000	6,626,000	899,000	8,523,000	610,000	1,914,000	328,000

See footnotes on page 62.

Table A-37—Estimated value added and value added attributed to timber in marketing in the United States, by industry and region, 1972, 1967, and 1963

	То	tal	Retail	Trade	Wholesa	le Trade
Region	Value added	Value added attributed to timber	Value added	Value added attributed to timber	Value added	Value added attributed to timber
			19	972		
North:						
Northeast North Central	42,387,000 44,982,000	1,759,000 1,604,000	22,775,000 24,911,000	808,000 955,000	19,632,000 20,071,000	951,000 649,000
Total	87,369,000	3,363,000	47,666,000	1,763,000	39,703,000	1,600,000
South:						
Southeast South Central	23,158,000 21,448,000	1,022,000 841,000	13,984,000 12,059,000	612,000 502,000	9,174,000 9,389,000	410,000 339,000
Total	44,606,000	1,863,000	26,043,000	1,114,000	18,563,000	749,000
West:						
Mountain	6,501,000	282,000	4,051,000	185,000	2,450,000	97,000
Pacific	23,625,000	1,050,000	13,875,000	499,000	9,750,000	551,000
Total	30,126,000	1,332,000	17,926,000	684,000	12,200,000	648,000
Total, United States	162,101,000	6,558,000	91,635,000	3,561,000	70,466,000	2,997,000
			19	067		
North:			4			
Northeast North Central	28,979,000 30,731,000	1,363,000 1,194,000	15,830,000 17,866,000	753,000 828,000	13,149,000 12,865,000	610,000 366,000
Total	59,710,000	2,557,000	33,696,000	1,581,000	26,014,000	976,000
South:						
Southeast South Central	13,571,000 13,025,000	595,000 529,000	8,334,000 7,730,000	376,000 366,000	5,237,000 5,295,000	219,000 163,000
Total	26,596,000	1,124,000	16,064,000	742,000	10,532,000	382,000
West:	- 				······································	
Mountain	3,729,000	144,000	2,423,000	105,000	1,306,000	39,000
Pacific Total	15,626,000	749,000 893,000	9,441,000	385,000 490,000	6,185,000 7,491,000	364,000 403,000
Total, United States	105,661,000	4,574,000	61,624,000	2,813,000	44,037,000	1,761,000
Total, Office States	105,001,000	4,574,000	01,024,000	2,013,000	4,037,000	1,701,000
			19	63		
North: Northeast	22,375,000	1,123,000	12,136,000	559,000	10,239,000	564,000
North Central	22,782,000	954,000	13,099,000	632,000	9,683,000	322,000
Total	45,157,000	2,007,000	25,235,000	1,191,000	19,922,000	886,000
South:						
Southeast South Central	9,656,000 9,691,000	423,000 415,000	5,884,000 5,657,000	263,000 274,000	3,772,000 4,034,000	160,000 141,000
Total	19,347,000	838,000	11,541,000	537,000	7,806,000	301,000
West:						
Mountain Pacific	3,021,000 12,360,000	132,000 656,000	1,948,000 7,087,000	92,000 310,000	1,073,000 5,273,000	40,000 346,000
Total	15,381,000	788,000	9,035,000	402,000	6,346,000	386,000
+						
Total, United States	79,885,000	3,703,000	45,811,000	2,130,000	34,074,000	1,573,000

See sources on page 62.

Table A-38.—Estimated employment and employment attributed to timber in transportation and marketing in the United States, by region and State, 1972, 1967, and 1963

(Number)

					(N	umber)						
			19	72					19	67		
	Tota	1	Transpor		Market	ing	Total		Transpor		Market	ing
Region and State	Employment	Employment attributed to timber	Employment	Employment attributed to timber	Employment	Employment attributed to timber	Employment	Employment attributed to timber	Employment	Employment attributed to timber	Employment	Employmen attributed to timber
North		I	L	1	L	L	L	1	L	1	L	
North: Northeast:												
Maine	84,300			950	76,800						64,600	2,650
New Hampshire	64,850		3,450	500	61,400						47,900	2,20
Vermont Massachusetts	37,750 704,850	2,100 33,000	2,900 39,050	5,450	34,850 665,800						28,550 453,150	1,350 21,50
Rhode Island	80,400	4,100	5,800	800	74,600	3,300	73,800	4,050	5,600	750	68,200	3,30
Connecticut	267,800	13,200	17,550	2,400	250,250				17,300		216,800	10,50
New York New Jersey	1,634,650 680,850	70,600 27,250	146,000 87,100	10,600 5,750	1,488,650 593,750			96,200 32,100	182,400 81,450		1,489,450 516,400	76,95 23,40
Pennsylvania	1,037,500	41,800	126,450	8,800	911,050			51,400			849,550	38,65
Total	4,592,950	199,400	435,800	35,650	4,157,150	163,750	4,199,450	230,400	464,850	49,900	3,734,600	180,50
North Central:												
Ohio	963,150		116,650	6,100	846,500						748,900	33,30
Indiana Illinois	466,900 1,107,950	17,700 42,350	50,450 127,900	2,650 7,150	416,450 980,050	15,050 35,200					372,200 924,150	16,400 38,300
Michigan	718,000	26,850	60,300	3,000	657,700	23,850	659,150	29,700	60,450	3,100	598,700	26,60
Wisconsin	400,400	17,550	36,900	3,250	363,500	14,300	354,500	17,900	32,750	3,100	321,750	14,80
Minnesota Iowa	377,500 268,150	18,550 10,600	41,250 26,850	4,300 2,100	336,250 241,300	14,250 8,500			36,250 22,450		292,550 221,850	13,550 9,150
Missouri	461,550	18,650	56,000	4,550	405,550						375,600	16,200
North Dakota	56,500	2,700	5,750	700	50,750	2,000	52,050	2,550	5,550	700	46,550	1,850
South Dakota Nebraska	58,200 159,300	2,200 7,500	5,200 22,400	2,400	53,000 136,900	1,800 5,100		2,200 7,050	3,700 19,450		48,050 122,200	1,850 4,850
Kansas	213,700	9,650	29,600	3,150	184,000	6,500					164,850	6,350
Total	5,251,300	209,450	579,250	39,750	4,672,050	169,700	4,793,850	222,650	556,500	39,450	4,237,350	183,200
Total, North	9,844,250	408,850	1,015,050	75,400	8,829,200	333,450	8,993,300	453,050	1,021,350	89,350	7,971,950	363,700
South:												
Southeast: Delaware	55,250	2,200	5,250	,	50,000	1,850	46,800	2,300	5,300	500	41,450	1,800
Maryland	425,550	16,350	43,350	3,050	382,200	13,300					338,600	23,450
Virginia	390,300	25,500	45,950	5,350	344,350			9,800	43,300		281,250	4,600
West Virginia North Carolina	128,450 428,950	6,300 22,800	18,500 48,200	2,150 4,700	109,950 380,750	4,150 18,100		18,150 10,400	19,300 40,500		100,000 318,850	15,500 6,300
South Carolina	191,700	10,050	17,850	1,900	173,850	8,150		16,200			143,100	14,700
Georgia	429,750	23,150	45,050	4,950	384,700	18,200		25,150	38,750		314,500	20,800
Florida Total	722,150 2,772,100	32,100 138,450	51,650 275,800	5,450 27,900	670,500 2,496,300	26,650 110,550		7,650 117,600	38,350 247,550		498,200 2,035,950	3,350 90,500
	2,772,100	130,130	275,000	27,700	2,170,300	110,550	2,203,300	117,000	247,550	21,100	2,033,730	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
South Central: Kentucky	248,600	12,150	31,400	3,900	217,200	8,250	217,250	11,900	28,900	3,700	188,350	8,200
Tennessee	352,900	17,250	40,200	4,300	312,700	12,950		15,950	33,800		264,750	12,150
Alabama	257,700	14,100	27,800	3,100	229,900	11,000	224,500	12,050	24,750	2,800	199,800	9,250
Mississippi Arkansas	149,950 149,650	7,600 7,400	14,750 17,500	1,600 1,800	135,200 132,150	6,000 5,600	126,700 133,000	6,750 6,300	11,700 16,100		115,000 116,900	5,400 4,800
Louisiana	314,500	14,950	48,700	4,850	265,800	10,100	281,700	15,150	48,400		233,300	10,250
Oklahoma	221,200	9,900	19,550	1,650	201,650	8,250		8,950	15,700		177,950	7,750
Texas	1,113,650	49,000	112,750	10,750	1,000,900	38,250		44,700	109,600		827,550	34,500
Total	2,808,150	132,350	312,650	31,950	2,495,500	100,400	2,412,550	121,750	288,950	29,450	2,123,600	92,300
Total, South	5,580,250	270,800	588,450	59,850	4,991,800	210,950	4,696,050	239,350	536,500	56,550	4,159,550	182,800
West:												
Mountain: Montana	67,550	3,750	9,850	1,200	57,700	2,550	59,250	2,900	9,550	1,100	49,700	1,800
Idaho	70,050	3,750	7,250	750	62,800	3,000	59,100	2,600	6,250		52,850	2,000
Wyoming	33,950	1,750	5,900	700	28,050	1,050	29,150	1,550	5,700	700	23,450	850
Colorado New Mexico	232,050 86,500	11,500 4,150	18,700 7,050	1,600 700	213,350 79,450	9,900 3,450		8,350 3,400	17,750 7,500		162,200 64,250	6,900 2,650
Arizona	173,850	8,100	9.750	1,050	164,100			5,400	8,900	1,050	114,600	4,350
Utah	104,250	5,350	13,100	1,250	91,150	4,100	84,150	4,600	12,300	1,250	71,850	3,350
Nevada	51,000	2,300	3,750		47,250			1,750	3,750		33,600	1,300
Total	819,200	40,650	75,350	7,700	743,850	32,950	644,200	30,550	71,700	7,350	572,500	23,200
Pacific: Washington	304,300	19,500	34,600	3,850	269,700	15,650	272,800	16,900	35,100	4,050	237,700	12,850
Oregon	217,750	14,200	26,500	2,800	191,250	11,400		13,650	25,850		159,600	10,650
California	1,834,550	76,800	151,350	15,200	1,683,200	61,600	1,624,250	77,950	151,100	16,300	1,473,150	61,650
Alaska Hawaii	23,400 83,150	1,350 3,000	2,800 4,850	1	20,600 78,300	1,100 2,600		900 2,750	2,400 4,950		13,400 58,500	650 2,250
Total	2,463,150	114,850	220,100	22,500	2,243,050	92,350		112,150	219,400		1,942,350	88,050
Total, West	3,282,350	155,500	295,450	30,200	2,986,900	125,300	2,805,950	142,700	291,100		2,514,850	111,250
Total, United States	18,706,850	835,150	1,898,950	165,450		669,700		835,100	1,848,938		14,646,350	657,750
- June States	10,700,030	055,150	1,070,750	.05,430	10,007,500	507,700	10,175,500	055,100	2,040,730	,550	,0,250	,.50

Less than 500 employees. Sources: See tables A-39 and A-30.

Table A-38.—Estimated employment and employment attributed to timber in transportation and marketing in the United States, by region and State, 1972, 1967, and 1963 — Continued (Number)

			190	63		
	Total		Transpor	tation	Market	ing
Region and State	Employment	Employment attributed to timber	Employment	Employment attributed to timber	Employment	Employmen attributed to timber
North:						
Northeast:						
Maine	69,850	4,000	8,050	1,550	61,800	2,450
New Hampshire	44,800	2,550			42,000	2,10
Vermont	27,750	1,600		600		1,00
Massachusetts	449,050	27,200				20,30
Rhode Island	66,650	4,000		950	61,100	3,050
Connecticut	207,500	12,300		3,100		9,20
New York	1,613,550	92,400		20,800	1,420,250	71,600
New Jersey	544,250	28,700		6,550		22,150
Pennsylvania	924,600	47,000 219,750	137,300 482,400	11,600 52,500	787,300 3,465,600	35,400 167,250
Total	3,948,000	219,730	402,400	32,300	3,403,600	167,230
North Central:	790 160	27 200	112 100	6 900	(77.050	20.50
Ohio	789,150			6,800		30,50
Indiana	379,200	17,950		2,600		15,350
Illinois	978,800 585,600			8,450 3,600		36,900 22,450
Michigan	321,600			4,400		13,60
Wisconsin	298,550	19,200		6,300		12,90
Minnesota		11,800	37,100 23,000	3,500		
lowa	223,800			4,100		8,30
Missouri	400,950	19,300 3,150		1,200		15,200 1,950
North Dakota	49,600 49,900	2,700				
South Dakota		7,550		550 2,450		2,150
Nebraska Kansas	134,150 177,650	9,000	29,450	3,250	112,350 148,200	5,10 5,75
Total	4,388,950	217,350	570,200	47,200	3,818,750	170,150
Total, North	8,336,950	437,100		99,700	7,284,350	337,400
South: Southeast:						
Delaware	42,000	2,200	5,550	450	36,450	1,75
Maryland	518,250	24,750		3,800		20,950
Virginia	140,650	7,800		3,550	95,700	4,25
West Virginia	301,000	14,800	20,350	1,300	280,650	13,50
North Carolina	156,800	9,600		4,000	122,600	5,60
South Carolina	278,350	13,950		1,600	265,950	12,350
Georgia	442,650	20,550		4,700	405,450	15,850
Florida	117,500	8,300		4,500	83,700	3,800
Total	1,997,200	101,950	231,150	23,900	1,766,050	78,05
South Central:						
Kentucky	201,950	11,750	29,450	4,050	172,500	7,70
Tennessee	262,850	14,950		4,000	231,150	10,95
Alabama	204,150	11,700	25,850	3,350	178,300	8,35
Mississippi	113,600	6,350	11,550	1,550	102,050	4,80
Arkansas	118,050	6,000		1,150		4,85
Louisiana	237,450	13,900	44,850	5,500		8,40
Oklahoma	171,050	8,500	15,300	1,000	155,750	7,50
Texas	827,050	40,700	102,300	9,200	724,750	31,50
Total	2,136,150	113,850	276,350	29,800	1,859,800	84,05
Total, South	4,133,350	215,800	507,500	53,700	3,625,850	162,10
West:						
Mountain:	67.600	2.000	10.100	1.000	47 500	2.00
Montana	57,600	3,900		1,900		2,00
Idaho Wyoming	56,500	2,800	7,700 6,600	850 750	48,800	1,95
Wyoming Colorado	30,650 165,500	1,650 8,750	19,500	1,850	· 24,050 146,000	6,90
New Mexico	68,300	3,500		850	60,100	2,65
Arizona	114,200	5,300		900	104,500	4,40
Utah	79,900	4,850		1,350	67,500	3,50
Nevada	33,150	1,850	3,850	1,550	29,300	1,40
Total	605,800	32,600	78,050	8,900	527,750	23,70
Pacific:						
Washington	243,600	17,550	33,000	5,400	210,600	12,15
Oregon	167,900	13,400		4,000	143,150	9,400
California	1,478,650	80,400	147,500	17,500		62,90
Alaska	13,900	900		,500	11,400	55
Hawaii	53,850	2,650		650	48,900	2,00
Total	1,957,900	114,900	212,700	27,900	1,745,200	87,000
Total, West	2,563,700	147,500	290,750	36,800	2,272,950	110,70

Less than 500 employees. Sources: See tables A-39 and A-30.

Table A-39—Estimated employment and employment attributed to timber in transportation in the United States, by industry and region, 1972, 1967, and 1963

	m		

	To	otal	Railr	oad	Tr	uck	w	ater
Region	Employment	Employment attributed to timber	Employment	Employment attributed to timber	Employment	Employment attributed to timber	Employment	Employmen attributed to timber
				19	72			
North:								
Northeast North Central	435,800 579,250	35,650 39,750	96,400 210,300	8,450 25,600	274,900 347,900	20,500 12,000	64,500 21,050	6,650 2,150
Total	1,015,050	75,400	306,700	34,050	622,800	32,550	85,550	8,800
South:								
Southeast South Central	275,800 312,650	27,900 31,950	75,950 84,700	11,550 14,150	169,300 174,100	13,200 12,300	30,550 53,850	3,150 5,500
Total	588,450	59,850	160,650	25,700	343,400	25,500	84,400	8,650
West: Mountain	75,350	7,700	32,650	5,400	42,450	2,250	1	
Pacific	220,100	22,500	56,000	9,500	129,800	9,500	34,250	3,500
Total	295,450	165,450	88,650	14,900	172,250	11,750	34,550	3,550
Total, United States	1,898,950	165,450	556,000	74,650	1,138,450	69,800	204,500	21,000
				19	67			
North:								
Northeast North Central	464,850 556,500	49,900 39,450	118,950 237,800	9,650 26,700	248,900 299,400	29,250 10,550	97,000 19,300	11,000 2,200
Total	1,021,350	89,350	356,750	36,350	548,300	39,800	116,300	13,200
South:	247.550	27.400	07.750	11.450	124.250	12 (50	2/ /50	2.000
Southeast South Central	247,550 288,950	27,100 29,450	86,650 88,550	11,450 13,700	134,250 140,650	12,650 8,950	26,650 59,750	3,000 6,800
Total	536,500	56,550	175,200	25,150	274,900	21,600	86,400	9,800
West:								
Mountain Pacific	71,700 219,400	7,350 24,100	38,750 64,250	6,050 10,050	32,850 111,350	1,300 9,100	43,800	4,950
Total	291,100	31,450	103,000	16,100	144,200	10,400	43,900	4,950
Total, United States	1,848,950	177,350	634,950	77,600	967,400	71,800	246,600	27,950
	L.,		-	19	163			
North:								
Northeast	482,400	52,500	156,850	16,100	227,800	19,650	97,750	16,750 3,150
North Central Total	570,200	47,200	292,350	32,700 48,800	259,650 487,450	11,350 31,000	18,200	19,900
	1,052,600	99,700	449,200	40,000	467,430	31,000	113,500	17,500
South: Southeast	231,150	23,900	96,750	9,350	110,600	10,450	23,800	4,100
South Central	276,350	29,800	107,100	13,600	119,500	7,700	49,750	8,500
Total	507,500	53,700	203,850	22,950	230,100	18,150	73,550	12,600
West:	70.050	0.000	45.000	7.250	22.050	1,600		
Mountain Pacific	78,050 212,700	8,900 27,900	45,900 72,400	7,250 12,600	32,050 100,900	8,550	39,400	6,750
Total	290,750	36,800	118,300	19,850	132,950	10,150	39,500	6,800
	1,850,850	190,200	771,350	91,600		59,300	229,000	39,300

See footnotes on page 61.

Table A-40—Estimated employment and employment attributed to timber in marketing in the United States, by industry and region, 1972, 1967, and 1963

- (N	11	h	er

	To	otal	Retail	Trade	Wholesa	ale Trade
Region	Employment	Employment attributed to timber	Employment	Employment attributed to timber	Employment	Employmer attributed to timber
			19	772		
North:						
Northeast North Central	4,157,150 4,672,050	163,750 169,700	2,945,000 3,510,150	104,850 134,750	1,212,150 1,161,900	58,900 34,950
Total	8,829,200	333,450	6,455,150	239,600	2,374,500	93,850
South:						
Southeast South Central	2,496,300 2,495,500	110,550 100,400	1,907,900 1,850,500	83,950 77,350	588,400 645,000	26,600 23,050
Total	4,991,800	210,950	3,758,400	161,300	1,233,400	49,650
	1,7,1,000		7,00,00	,	1,20,100	17,030
West: Mountain	743,900	32,950	580,900	26,450	163,000	6,500
Pacific	2,243,000	92,350	1,703,400	61,300	539,600	31,050
Total	2,986,900	125,300	2,284,300	87,750	702,600	37,550
Total, United States	16,807,900	669,700	12,497,850	488,650	4,310,050	181,050
			19	267		
North:						
Northeast North Central	3,734,650 4,237,300	180,000 182,450	2,711,900 3,202,000	133,200 153,150	1,022,750 1,035,300	46,800 29,300
Total	7,971,950	362,450	5,913,900	286,350	2,058,050	76,100
South:						
Southeast	2,035,950	91,250	1,562,150	71,450	473,800	19,800
South Central Total	2,123,600 4,159,550	93,050	1,616,950 3,179,100	77,350 148,800	506,650 980,450	15,700 35,500
	4,139,330	164,300	3,179,100	140,000	980,430	33,300
West: Mountain	572,500	23,100	450,000	19,500	122,500	3,600
Pacific	1,942,350	87,900	1,462,100	59,300	480,250	28,600
Total	2,514,850	111,000	1,912,100	78,800	602,750	32,200
Total, United States	14,646,350	657,750	11,005,100	513,950	3,641,250	143,800
			19	963		
North:						
Northeast North Central	3,465,600 3,818,750	167,250 170,150	2,558,850 2,904,100	117,900 140,100	906,750 914,650	49,350 30,050
Total	7,284,350	337,400	5,462,950	258,000	1,821,400	79,400
South:						
Southeast	1,766,050	78,050	1,354,100	60,650	411,950	17,400
South Central Total	1,859,800 3,625,850	84,050 162,100	1,405,950 2,760,050	68,200 128,850	453,850 865,800	15,850
	910201000				,	
West: Mountain	527,750	23,700	414,150	19,550	113,600	4,150
Pacific	1,745,200	87,000	1,319,050	57,600	426,150	29,400
Total	2,272,950	110,700	1,733,200	77,150	539,750	33,550
Total, United States	13,183,150	610,200	9,956,200	464,000	3,226,950	146,200

Sources: Retail trade—Includes the total number of paid employees in the work week ending nearest November 15, and the number of active proprietors of unincorporated businesses. Estimates of the number of paid employees for 1972, 1967, and 1963, and active proprietors of unincorporated businesses for 1967 and 1963 are derived from data in the 1972, 1967 and 1963 Censuses of Retail Trade. Estimates of the number of proprietors of unincorporated businesses in 1972 were derived from the number of sole proprietorships and partnerships by State in the same source. Estimates of employment attributed to timber were calculated by adjusting total employment in retail trade by the estimated proportion of sales that were derived from timber products. These ratios were calculated, by State, from data on sales by merchandise line from the 1972, 1967, and 1963 Censuses of Retail Trade.

Wholesale trade—Includes the total number of paid employees in the work week nearest November 15, and the number of active proprietors of unincorporated businesses. Estimates of the number of paid employees for 1972, 1967, and 1963, and active proprietors of unincorporated businesses for 1967 and 1963 were derived from data in the 1972, 1967, and 1963 Censuses of Wholesale Trade. Estimates of the number of proprietors of unincorporated businesses by State for 1972 were based on trends in similar data for 1967 and 1963. Estimates of employment attributed to timber were derived by adjusting total employment in wholesale trade by the estimated proportion of total sales that were derived by adjusting total employment in wholesale trade by the estimated proportion of total sales that were derived from timber products. These ratios were calculated, by State, from data on sales by commodity line from the 1972, 1967, and 1963 Censuses of Wholesale Trade. Separate estimates were made for merchant wholesalers, merchandise agents and brokers, and manufacturer's sales branches and sales offices, and incorporated in the final ratios for all wholesale trade.

Table A-41-Estimated value added in timber-based economic activities in the United States, by industry and region, 1972, 1967, and 1963

		Timber		Primary	Secondary		Transportation
Region	Total	management	Harvesting	manufacturing	manufacturing	Construction	and marketin
				1972			
North:							
Northeast North Central	9,311,700 10,074,800	66,050 112,850	118,000 172,850	1,108,650 1,176,950	3,224,350 3,217,400	2,533,650 2,968,750	2,261,000 2,426,000
Total	19,386,500	178,900	290,850	2,285,600	6,441,750	5,502,400	4,687,000
South: Southeast	8,978,300	406,950	461,800	1,693,100 1,910,300	2,770,800	2,208,650	1,437,000
South Central Total	7,820,400 16,798,700	554,150 961,100	1,101,000	3,603,400	1,766,150 4,536,950	1,604,600 3,813,250	2,783,000
West:							
Mountain	2,148,250	175,100	239,000	313,350	167,200	831,600	422,000
Pacific Total	10,131,000	1,548,600	1,434,500	2,594,600 2,907,950	1,358,300	1,800,000 2,631,600	1,395,000
Total, United States	48,464,450	2,863,700	3,065,350	8,796,950	12,504,200	11,947,250	9,287,000
Total, Office States		2,005,700	3,003,330		12,504,200	11,747,250	7,207,000
				1967			
North:	7 401 050	52.000	112.550	042.450	2 (50 200	1.073.660	1 750 000
Northeast North Central	7,491,950 6,858,300	52,900 89,200	113,550 142,850	942,650 937,650	2,650,300 2,252,300	1,973,550 1,715,300	1,759,000 1,721,000
Total	14,350,250	142,100	256,400	1,880,300	4,902,600	3,688,850	3,480,000
South: Southeast South Central	5,313,850 4,531,400	249,850 276,800	331,200 341,750	1,148,850 1,082,100	1,768,500 1,141,150	966,450 834,600	849,000 855,000
Total	9,845,250	526,650	672,950	2,230,950	2,909,650	1,801,050	1,704,000
West:							
Mountain Pacific	971,200 5,601,650	79,800 721,150	146,250 686,300	181,000 1,336,450	73,100 880,900	256,050 986,850	235,000 990,000
Total	6,572,850	800,950	832,550	1,517,450	954,000	1,242,900	1,225,000
Total, United States	30,768,350	1,469,700	1,761,900	5,628,700	8,766,250	6,732,800	6,409,000
				1963			
North:							
Northeast North Central	6,337,300 5,827,400	52,500 77,750	102,500 138,550	793,400 780,100	2,150,450 1,684,400	1,644,450 1,665,600	1,594,000 1,481,000
Total	12,164,700	130,250	241,050	1,573,500	3,834,850	3,310,050	3,075,000
South: Southeast South Central	4,079,500 3,483,000	218,200 198,950	261,300 254,850	1,001,500 888,950	1,290,900 773,450	678,600 660,800	629,000 706,000
Total	7,562,500	417,150	516,150	1,890,450	2,064,350	1,339,400	1,335,000
West:							
Mountain Pacific	949,900 5,401,950	48,250 740,750	100,800 674,950	150,500 1,180,000	55,350 684,100	370,000 1,217,150	225,000 905,000
Total	6,351,850	789,000	775,750	1,330,500	739,450	1,587,150	1,130,000

Table A-42—Estimated value added in timber-based economic activities in the United States, by region and State, 1972, 1967, and 1963

Region and State	1972	1967	1963	Region and State	1972	1967	1963
North:		'		South Central:			
Northeast:				Kentucky	505,450	292,950	244,950
Maine	510,150	385,300	307,750	Tennessee	983,600	713,650	540,300
New Hampshire	232,850	161,050	115,550	Alabama	1,220,700	720,100	512,800
Vermont	131,400	94,100	72,350	Mississippi	830,950	446,650	330,150
Massachusetts	1,134,050	849,600	763,200	Arkansas	846,950	470,900	351,000
Rhode Island	146,200	106,800	89,500	Louisiana	1,080,350	623,200	481,800
	512,100	374,800	314,000	Oklahoma		167,950	
Connecticut					337,450		152,650
New York	3,157,200	2,946,850	2,459,850	Texas	2,014,950	1,096,000	869,350
New Jersey	1,352,550	999,500	865,100				
Pennsylvania	2,135,200	1,573,950	1,350,000	Total	7,820,400	4,531,400	3,483,000
Total	9,311,700	7,491,950	6,337,300	Total, South	16,798,700	9,845,250	7,562,500
North Central:				West:			
Ohio	1,756,550	1,263,750	1,033,150	Mountain:			
Indiana	960,000	650,450	508,900	Montana	325,950	180,050	139,350
Illinois	2,006,000	1,270,900	1,148,950	Idaho	425,450	211,000	181,100
Michigan	1,439,200	1,042,800	837,850	Wyoming	65,900	31,400	37,750
Wisconsin	1,296,200	960,100	768,650	Colorado	443,250	197,800	192,300
Minnesota	837,550	518,650	478,950	New Mexico	115,500	71,750	77,050
lowa	358,050	245,950	211,450	Arizona	455,450	159,050	149,300
Missouri	806,300	546,300	462,150	Utah	162,050	75,500	91,750
North Dakota	52,150	30,800	43,250	Nevada	114,700	44,650	81,300
South Dakota	58,450	34,550	43,600	1 TC T d G d	114,700	44,050	01,500
Nebraska	213,850	122,900	120,050	Total	2,148,250	971,200	949,900
Kansas	290,400	171,150	170,450	Total	2,140,230	7/1,200	747,700
Kalisas	290,400	171,130	170,430	Pacific:			
T	10.074.000	(050 300	6.027.400		2 207 660	1 205 200	1 071 060
Total	10,074,800	6,858,300	5,827,400	Washington Oregon	2,307,650 2,993,200	1,285,200 1,540,150	1,071,050
T . 1 . 1 . 1	10 204 500	11260 260	12.144.700				
Total, North	19,386,500	14,350,250	12,164,700	California	4,548,300	2,264,650	2,669,250
				Alaska	126,050	73,300	75,900
South:				Hawaii	155,800	78,350	61,000
Southeast:							
Delaware	95,050	63,650	61,200	Total	10,131,000	5,601,650	5,401,950
Maryland	754,000	499,850	383,850		44.450.465	4.450.00	
Virginia	1,406,250	877,200	683,750	Total, West	12,279,250	6,572,850	6,351,850
West Virginia	274,650	192,250	158,050				
North Carolina	1,845,050	1,219,850	886,250	Total, United States	48,464,450	30,768,350	26,079,050
South Carolina	1,032,800	602,250	470,150				
Georgia	1,839,250	1,010,400	830,900				
Florida	1,731,250	848,400	605,350				
Total	8,978,300	5,313,850	4,079,500				

Table A-43—Estimated employment in timber-based economic activities in the United States, by industry and region, 1972, 1967, and 1963

- /	N	um	hor'	١.

Region	Total	Timber management	Harvesting	Primary manufacturing	Secondary manufacturing	Construction	Transportatio and marketing
		1 -	1	1972			
North: Northeast North Central	675,250 700,100	12,400 15,300	19,350 25,900	59,850 61,800	232,600 200,650	151,650 187,000	199,400 209,450
Total	1,375,350	27,700	45,250	121,650	433,250	338,650	408,850
South: Southeast South Central	688,500 585,150	25,300 23,400	40,300 57,200	85,150 ° 96,400	224,600 142,950	174,700 132,850	138,450 132,350
Total	1,273,650	48,700	97,500	181,550	367,550	307,550	270,800
West: Mountain Pacific	143,450 472,500	11,650 29,150	8,350 39,300	16,950 106,400	13,650 85,950	52,200 96,850	40,650 114,850
Total	615,950	40,800	47,650	123,350	99,600	149,050	155,500
Total, United States	3,264,950	117,200	190,400	426,550	900,400	795,250	835,150
				1967			
North: Northeast North Central	737,700 677,200	11,300 14,250	28,700 34,200	68,700 66,550	256,250 193,900	142,350 145,650	230,400 222,650
Total	1,414,900	25,550	62,900	135,250	450,150	288,000	453,050
South: Southeast South Central	558,800 516,600	22,700 21,500	54,300 63,800	87,100 94,050	196,850 122,100	80,250 93,400	117,600 121,750
Total	1,075,400	44,200	118,100	181,150	318,950	173,650	239,350
West: Mountain Pacific	99,950 433,450	10,850 27,050	10,200 45,150	17,600 103,750	7,800 74,050	22,950 71,300	30,550 112,150
Total	533,400	37,900	55,350	121,350	81,850	94,250	142,700
Total, United States	3,023,700	107,650	236,350	437,750	850,950	555,900	835,100
			3	1963			
North: Northeast North Central	747,850 684,000	10,250 13,000	32,700 40,800	70,550 64,850	256,600 178,100	158,000 169,900	219,750 217,350
Total	1,431,850	23,250	73,500	135,400	434,700	327,900	437,100
South: Southeast South Central	551,600 494,500	20,650 20,300	69 ⁻ 50 67,650	96,100 97,700	173,550 104,350	90,000 90,650	101,950 113,850
Total	1,046,100	40,950	137,000	193,800	277,900	180,650	215,800
West: Mountain Pacific	110,450 469,950	8,250 22,250	9,400 56,650	16,650 103,900	6,850 70,350	36,700 101,900	32,600 114,900
Total	580,400	30,500	66,050	120,550	77,200	138,600	147,500
Total, United States	3,058,350	94,700	276,550	449,750	789,800	647,150	800,400

Table A-44-Estimated employment in timber-based economic activities in the United States, by region and State, 1972, 1967, and 1963

(Number) Region and State 1972 1967 1963 1972 Region and State 1967 1963 South Central: North Northeast: Kentucky 41.350 38,200 40,650 Maine 40,200 42,200 38,850 Tennessee 81,750 81,050 73,500 New Hampshire 19,500 17,100 16,800 Alabama 84,700 75,900 55,400 70,700 12.050 11.350 53,400 54,900 Vermont 11.100 Mississippi 61,950 Massachusetts 90,100 89,600 93,950 58,700 53,600 Arkansas Rhode Island 11,800 12,550 12,150 Louisiana 66,600 62,350 62,900 Connecticut 37,100 37,150 38,750 Oklahoma 28,800 23,050 22,950 New York 213,050 255,100 271,150 Texas 161,300 127,050 115,500 89,750 95,900 95,500 New Jersey Pennsylvania 161,700 176,750 169,600 Total 585,150 516,600 494,500 675,250 737,700 747,850 Total, South 1.273.650 1.075,400 1,046,100 Total North Central: Ohio 118,150 116,250 113,450 Mountain: 67,950 1ndiana 69,950 64,250 17,200 16,200 17,800 Montana Illinois 130,750 125,000 127,550 ldaho 21,800 19,300 17,650 Michigan 97,650 100,800 95,350 Wyoming 4,250 3,400 5,050 86,350 57,450 Colorado New Mexico Wisconsin 86.900 86.050 35,900 21,650 23,250 49,050 56,850 Minnesota 13.000 9.450 11,050 28,050 27,350 27,750 15,950 17,550 Arizona 29,400 lowa Missouri 61,500 60,500 61,850 Utah 14,250 9,900 12,000 North Dakota 4.650 4,200 6,100 6,700 Nevada 7,650 4,100 6,100 5,800 5,300 South Dakota 14,150 16,350 143,450 99,950 Nebraska 16,850 Total 110,450 22,950 19,750 21,750 Pacific: Total 700,100 677,200 684,000 Washington 92,500 90,400 90,250 Oregon 103,750 104,150 107,700 Total, North 1,375,350 1,414,900 1,431,850 California 259,550 227,300 260,100 4,100 7,500 4,750 7,150 Alaska 6.650 South: Hawaii 10,050 Southeast: Delaware 6,800 6,700 6,500 Total 472,500 433,450 469,950 55,400 82,550 61,500 81,150 Maryland 53,100 110,800 Total, West 615,950 533,400 580,400 Virginia West Virginia 21,900 35,550 33,450 North Carolina 159,750 135,100 123,150 Total, United States 3,264,950 3,023,700 3,058,350 77,850 126,250 South Carolina 74.850 69.950 113,700 113,300 Georgia Florida 132,250 50,650 66,900 688,500 558 800 551,600 Total

Appendix B. Industry Definitions

Most of the data on primary and secondary manufacturing used in this study came from the 1963, 1967, and 1972 Censuses of Manufactures. Firms are classified for the manufacturing census basically according to the products they produce. Thus, an establishment is classified in a particular industry (SIC) if its production of the primary products of that industry exceeds in value its production of products of any other single industry. While some establishments produce only the primary products of the industry in which they are classified, rarely do all the establishments in an industry specialize to that extent. For example, only 94 percent of the total value of shipments from those firms classified in the Wood Household Furniture Industry (SIC 2511) in 1972, was wood household furniture. The remaining 6 percent consisted of such diverse products as metal office and household furniture, hardwood dimension and flooring, games, toys, sporting and athletic goods, and household cooking equipment. Looked at from the product viewpoint, about 95 percent of the total value of shipments of wood household furniture in 1972 came from firms classified in the Wood Household Furniture Industry. In addition, wood household furniture was produced in the Upholstered and Metal Furniture Industries (SIC's 2512 and 2514), the Mattresses and Bedsprings Industry (SIC 2515), and in several others.

The types of firms (by SIC industry codes) included in the major primary and secondary manufacturing industries recognized in this study are shown in table B-1 on page 83 and defined below. Changes necessitated by SIC industry reclassification during the study period are shown in the footnotes to table B-1 and discussed below.

Primary Manufacturing

Sawmills and planing mills:

2421 Sawmills and Planing Mills, General—Establishments primarily engaged in sawing rough lumber and timber from logs and bolts or resawing cants and flitches into lumber, including box lumber and softwood cut stock; planing mills combined with sawmills; and separately operated planing mills which are engaged primarily in producing surfaced lumber and standard workings or patterns of lumber. Includes establishments primarily engaged in sawing lath and railroad ties, and in producing tobacco hoghead stock, wood chips, and snow fence lath.

2426 Hardwood Dimension and Flooring—Establishments primarily engaged in manufacturing hardwood dimension lumber and workings therefrom; and other hardwood dimension, semifabricated or ready for assembly; hardwood flooring; and wood frames for household furniture. Establishments primarily engaged in manufacturing wood frames for household furniture, added to this SIC in 1972, were classified in industry 2512, Upholstered Household Furniture, in 1967 and 1963.

Veneer and plywood plants:

- 2432 Veneer and Plywood—Establishments primarily engaged in producing commercial veneer, either face or technical, and those primarily engaged in manufacturing commercial plywood, including nonwood backed or faced veneer and nonwood faced plywood, from veneer produced in the same establishment or from purchased veneer (1967 and 1963 only).
- 2435 Hardwood Veneer and Plywood—Establishments primarily engaged in producing commercial hardwood veneer, either face or technical, and those primarily engaged in manufacturing commercial plywood or prefinished hardwood plywood. This includes nonwood backed or faced veneer and nonwood faced plywood from veneer produced in the same establishment or from purchased veneer. This SIC was created in 1972 when former SIC 2432, Veneer and Plywood, was split into separate hardwood and softwood industries.
- 2436 Softwood Veneer and Plywood—Establishments primarily engaged in producing commercial softwood veneer and plywood, from veneer produced in the same establishment or from purchased veneer. This SIC was created in 1972 when former SIC 2432, Veneer and Plywood, was split into separate hardwood and softwood industries.

Pulp, paper, and paperboard mills:

- 2611 Pulpmills—Establishments primarily engaged in manufacturing pulp from wood or from other materials such as rags, linters, waste paper, bagasse, and straw.
- 2621 Papermills, Except Building Paper—Establishments primarily engaged in manufacturing paper, except building paper (Industry 2661) from woodpulp and other fibers, and which may also manufacture converted paper products. Pulpmills combined with papermills and not separately reported are also included.
- 2631 Paperboard Mills—Establishments primarily engaged in manufacturing paperboard, including paperboard coated on the paperboard machine, from woodpulp, waste paper, and other fibers; and which may also manufacture converted paperboard products. Pulpmills combined with paper-

board mills and not separately reported are also included.

2661 Building Paper and Board Mills—Establishments primarily engaged in manufacturing building paper and building board from wood pulp and other fibrous materials. Pulpmills combined with building paper and building board mills, and not separately reported, are also included.

Other primary:

- 2429 Special Product Sawmills, N.E.C.—Establishments primarily engaged in manufacturing excelsior, wood shingles, and cooperage stock; and in sawing special products, not elsewhere classified.
- 2492 Particleboard—Establishments primarily engaged in manufacturing wood panel products from small wood particles. Manufacture may take place in hydraulic presses with heated platens or by extrusion. This SIC was created in 1972. Establishments classified in this SIC were formerly part of 2499, Wood Products, N.E.C.

2861 Gum and Wood Chemicals—Establishments primarily engaged in manufacturing hardwood and softwood distillation products, wood and gum naval stores, charcoal, natural dyestuffs, and natural tanning materials.

Secondary Manufacturing

Millwork and prefabricated wood products:

- 2431 Millwork—Establishments primarily engaged in manufacturing fabricated millwork. Planing mills primarily engaged in producing millwork are included, but planing mills primarily producing standard workings or patterns of lumber are classified in SIC 2421, Sawmills and Planing Mills, General. In 1967 and 1963, this SIC also included the manufacture of custom cabinetwork to be built-in, which was transferred to new SIC 2434, Wood Kitchen Cabinets, in 1972.
- 2433 Prefabricated Wood Structures—Establishments primarily engaged in manufacturing prefabricated wood buildings, sections, and panels; or in producing laminated or fabricated trusses, arches, and other structural members of lumber (1967 and 1963 only).
- 2434 Wood Kitchen Cabinets—Establishments primarily engaged in manufacturing wood kitchen cabinets, stock line or custom, and vanities and other cabinetwork. This SIC was created in 1972 by combining the manufacture of custom cabinetwork to be built-in from former SIC 2431 with wood kitchen cabinets from former SIC 2511.

- 2439 Structural Wood Members, N.E.C.—Establishments primarily engaged in producing laminated or fabricated trusses, arches, and other structural members of lumber. This SIC was created in 1972. Establishments now classified in this SIC were in SIC 2433, Prefabricated Wood Structures, in 1967 and 1963.
- 2451 Mobile Homes—Establishments primarily engaged in manufacturing mobile homes. These mobile homes are generally over 35 feet long, at least 8 feet wide, do not have facilities for storage of water or waste, and are equipped with wheels. This SIC was created in 1972. Establishments now classified in this SIC were formerly in SIC 3791, Trailer Coaches.
- 2452 Prefabricated Wood Buildings—Establishments primarily engaged in manufacturing prefabricated wood buildings, sections, and panels. This SIC was created in 1972. Establishments now classified in this SIC were formerly in SIC 2433, Prefabricated Wood Structures.
- 3791 Trailer Coaches—Establishments primarily engaged in manufacturing trailer coaches (mobile dwellings) for attachment to passenger cars, and pickup coaches (campers) for mounting on pickup trucks.

Wooden containers:

- 2441 Nailed Wood Boxes and Shook—Establishments primarily engaged in manufacturing nailed and lock-corner wooden boxes (lumber or plywood), which also may produce shook for nailed and lock-corner boxes.
- 2442 Wirebound Boxes and Crates—Establishments primarily engaged in manufacturing wirebound boxes and crates (1967 and 1963 only).
- 2443 Veneer and Plywood Containers—Establishments primarily engaged in manufacturing veneer and plywood containers, except boxes, including baskets made primarily of veneer and splint for shipping and marketing fruits and vegetables (1967 and 1963 only).
- 2445 Cooperage—Establishments primarily engaged in the manufacture of barrels, tubs, hogshead, and other containers made of staves, except fruit and vegetable baskets (1967 and 1963 only).
- 2448 Wood Pallets and Skids—Establishments primarily engaged in manufacturing wood and woodmetal combination pallets and skids. This SIC was created in 1972. Establishments classified in this SIC were formerly in SIC 2499, Wood Products, N.E.C.

2449 Wood Containers, N.E.C.—Establishments primarily engaged in manufacturing wood containers, not elsewhere classified, such as cooperage, wirebound boxes and crates, and other veneer and plywood containers. This SIC was created in 1972 by combining former SIC's 2442, Wirebound Boxes and Crates; 2443, Veneer and Plywood Containers; and 2445, Cooperage.

Furniture:

- 2511 Wood Household Furniture—Establishments primarily engaged in manufacturing wood household furniture commonly used in dwellings. Also included are establishments engaged in manufacturing infants' and children's wood furniture and wood outdoor furniture. In 1967 and 1963, this SIC also included establishments primarily engaged in the manufacture of wood kitchen cabinets (transferred to SIC 2434 in 1972) and those primarily engaged in manufacturing wood, TV, radio, phonograph, and sewing machine cabinets (transferred to SIC 2517 in 1972.)
- 2512 Upholstered Household Furniture—Establishments primarily engaged in manufacturing upholstered furniture on wood frames. In 1963 and 1967, this SIC also included those firms primarily engaged in manufacturing only wood frames for upholstered furniture. In 1972 these establishments were included in SIC 2426.
- 2514 Metal Household Furniture—Establishments primarily engaged in manufacturing metal household furniture, whether padded or plain, of a type commonly used in dwellings.
- 2515 Mattresses and Bedsprings—Establishments primarily engaged in manufacturing innerspring mattresses, box spring mattresses, and noninnerspring mattresses containing felt, foam rubber, or any other filling material; and assembled wire springs (fabric, coil, or box) for use on beds, couches, and cots. This SIC also includes establishments primarily engaged in manufacturing dual-purpose sleep furniture, such as studio couches, sofa beds, and chairbeds regardless of the material used in the frame.
- 2517 Wood TV and Radio Cabinets—Establishments primarily engaged in manufacturing wood radio, phonograph, hi-fi, and television cabinets. This SIC also includes establishments primarily engaged in manufacturing sewing machine cabinets. This SIC was created in 1972. Establishments now classified in this SIC were formerly in 2511, Wood Household Furniture.

- 2519 Household Furniture, N.E.C.—Establishments primarily engaged in manufacturing reed, rattan, and other wicker furniture, plastics and fiberglass household furniture and cabinets, and household furniture, N.E.C.
- 2521 Wood Office Furniture—Establishments primarily engaged in manufacturing wood office furniture whether padded, upholstered, or plain.
- 2531 Public Building and Related Furniture—Establishments primarily engaged in manufacturing furniture for schools, theaters, assembly halls, churches, and libraries, and also including the manufacture of seats for public conveyance and seats for automobiles and aircraft.
- 2541 Wood Partitions and Fixtures—Establishments primarily engaged in manufacturing wood shelving, lockers, office and store fixtures, prefabricated plastic laminated fixture tops, and related fabricated products.
- 2542 Metal Partitions and Fixtures—Establishments primarily engaged in manufacturing metal shelving, storage racks, lockers, office and store fixtures, prefabricated partitions, and related fabricated products.
- 2599 Furniture and Fixtures, N.E.C—Establishments primarily engaged in manufacturing furniture and fixtures, not elsewhere classified, including furniture especially designed for use in restaurants, bars, cafeterias, bowling establishments, and ships.

Paper and paperboard products:

- 2641 Paper Coating and Glazing—Establishments primarily engaged in manufacturing coated, glazed, or varnished paper from purchased paper. Also included are establishments primarily manufacturing pressure sensitive tape with backing of any material other than rubber.
- 2642 Envelopes—Establishments primarily engaged in manufacturing envelopes of any description from purchased paper and paperboard.
- 2643 Bags, Except Textile Bags—Establishments primarily engaged in manufacturing bags from purchased paper, cellophane, acetate, polyethylene, polypropylene, pliofilm, foil, and similar sheet or film materials.
- 2644 Wallpaper—Establishments primarily engaged in designing, printing, and embossing paper for interior walls and ceilings (1967 and 1963 only).

- 2645 Die-cut Paper and Board—Establishments primarily engaged in diecutting purchased paper and paperboard; and in manufacturing cardboard by laminating, lining, or surface coating paperboard.
- 2646 Pressed and Molded Pulp Goods—Establishments primarily engaged in manufacturing all kinds of pressed and molded goods, including papiermache articles other than statuary and art goods.
- 2647 Sanitary Paper Products—Establishments primarily engaged in manufacturing, from purchased paper, sanitary paper products, such as facial tissue and hankerchiefs, table napkins, toilet paper, towels, disposable diapers, and sanitary napkins and tampons. In 1967 and 1963, firms manufacturing disposable paper diapers were in 2399, Fabricated Textile Products, N.E.C.
- 2648 Stationery Products—Establishments primarily engaged in manufacturing stationery, tablets, looseleaf fillers, and related items from purchased paper. This SIC was created in 1972. Establishments now classified in this SIC were formerly in 2649, Converted Paper Products, N.E.C.
- 2649 Converted Paper Products N.E.C.—Establishments primarily engaged in manufacturing from purchased paper or paperboard, miscellaneous converted paper or paperboard products, not elsewhere classified. Includes firms manufacturing wallpaper in 1972, formally in 2644 in 1967 and 1963.
- 2651 Folding Paperboard Boxes—Establishments primarily engaged in manufacturing folding paperboard boxes from purchased paperboard.
- 2652 Set-up Paperboard Boxes—Establishments primarily engaged in manufacturing setup paperboard boxes from purchased paperboard.
- 2653 Corrugated and Solid Fiber Boxes—Establishments primarily engaged in manufacturing corrugated and solid fiber boxes and related products from purchased paperboard of fiber stock. Important products of this industry include corrugated and solid fiberboard boxes, pads, partitions, display items, pallets, single face products, and corrugated sheets.
- 2654 Sanitary Food Containers—Establishments primarily engaged in manufacturing food containers from special food board. Important products of this industry include fluid milk containers; folding paraffined cartons for butter, margarine, and shortening; ice cream containers; frozen food containers; liquid tight containers; dishes, spoons, and similar products.
- 2655 Fiber Cans, Drums, and Similar Products—Establishments primarily engaged in manufacturing

from purchased materials fiber cans, cones, drums, and similar products, with or without metal ends, and vulcanized fiber boxes.

Fibers, plastics and textiles:

- 2211 Weaving Mills, Cotton—Establishments primarily engaged in weaving fabrics over 12 inches in width, wholly or chiefly of cotton.
- 2221 Weaving Mills, Man-Made Fiber, Silk—Establishments primarily engaged in weaving fabrics over 12 inches in width, wholly or chiefly of silk and manmade fibers, including glass.
- 2241 Narrow Fabric Mills—Establishments primarily engaged in weaving or braiding fabrics 12 inches in width or narrower of cotton, wool, silk, and manmade fibers, including glass.
- 2253 Knit Outerwear Mills—Establishments primarily engaged in knitting outerwear from yarn or in manufacturing outerwear from knit fabric produced in the same establishment.
- 2254 Knit Underwear Mills—Establishments primarily engaged in knitting underwear and nightwear from yarn or in manufacturing underwear and nightwear from knit fabric produced in the same establishment.
- 2256 Knit Fabric Mills—Establishments primarily engaged in knitting tubular or flat fabric and in dyeing or finishing knit fabric (1967 and 1963 only).
- 2258 Warp Knit Fabric Mills—Establishments primarily engaged in knitting warp (flat fabric) or in dyeing or finishing warp (flat) knit fabric (1972 only).
- 2259 Knitting Mills, N.E.C.—Establishments primarily engaged in knitting gloves and other articles, not elsewhere classified.
- 2262 Finishing Plants, Manmade Fiber and Silk—Establishments primarily engaged in finishing purchased manmade fiber and silk broad woven fabrics or finishing such fabrics on a commission basis. These finishing operations include bleaching, dyeing, printing (roller, screen, flock, and plisse), and other mechanical finishing such as preshrinking, calendering, and napping.
- 2272 Tufted Carpets and Rugs—Establishments primarily engaged in tufting carpets and rugs from any textile fiber. Important products of this industry include tufted carpets, rugs, scatter rugs, and bathmats and bathmat sets except terry woven.
- 2281 Yarn Mills, Except Wool—Establishments primarily engaged in spinning yarn wholly or chiefly by weight of cotton, manmade fibers, or silk staple.

- 2282 Throwing and Winding Mills—Establishments primarily engaged in texturizing, throwing, twisting, winding, or spooling yarn wholly or chiefly by weight of cotton, manmade fibers, or silk
- 2284 Thread Mills—Establishments primarily engaged in manufacturing thread from natural or manmade fiber except flax and wool.
- 2294 Processed Textile Waste—Establishments primarily engaged in processing textile mill waste for spinning, padding, batting, or other uses; in recovering textile fibers from clippings and rags; in cutting flock from waste, recovered fibers, or new fiber stock, and in manufacturing oakum and twisted jute packing.
- 2296 Tire Cord and Fabric—Establishments primarily engaged in manufacturing cord and fabric for use in reinforcing rubber tires, industrial belting, fuel cells, and similar uses.
- 2297 Nonwoven Fabric Mills—Establishments primarily engaged in manufacturing nonwoven fabrics (by bonding and/or interlocking of fibers) by mechanical, chemical, thermal, or solvent means or by combinations thereof; or in manufacturing nonwoven fabricated products such as blankets, ribbons, and wipers (1972 only).
- 2298 Cordage and Twine—Establishments primarily engaged in manufacturing rope, cable, cordage, twine, and related products from abaca (Manila), sisal, henequen, hemp, cotton, paper, jute, flax, manmade fibers including glass, and other fibers.
- 2311 Men's and Boys' Suits and Coats—Establishments primarily engaged in the manufacture of men's, youths', and boys' suits, coats, and overcoats. Establishments primarily engaged in manufacturing uniforms (except athletic) are also included in this industry.
- 2321 Men's and Boys' Shirts and Nightwear Establishments primarily engaged in the manufacture of mens' and boys' shirts (including polo and sports shirts) and nightwear cut and sewed from purchased woven or knit fabrics.
- 2323 Men's and Boys' Neckwear—Establishments primarily engaged in the manufacture of men's and boys' neckties, scarfs, and mufflers cut and sewed from purchased woven or knit fabric.
- 2327 Men's and Boys' Separate Trousers—Establishments primarily engaged in the manufacture of men's and boys' separate trousers and slacks.
- 2329 Men's and Boys' Clothing, N.E.C.—Establishments primarily engaged in manufacturing men's, youths' and boys' clothing, not elsewhere classified.
- 2331 Women's and Misses' Blouses and Waists—Establishments primarily engaged in manufacturing

- women's, misses' and juniors' blouses, waists, and shirts.
- 2335 Women's and Misses' Dresses—Establishments primarily engaged in manufacturing women's, misses' and juniors' dresses, including ensemble dresses and pants dresses, whether sold by the piece or by the dozen.
- 2337 Women's and Misses' Suits and Coats—Establishments primarily engaged in manufacturing women's, misses', and juniors' suits, pantsuits, skirts, and coats except fur coats and raincoats.

 These garments are generally tailored and usually lined.
- 2341 Women's and Children's Underwear—Establishments primarily engaged in manufacturing women's, misses', children's, and infant's underwear and nightwear cut and sewed from purchased woven or knit fabric.
- 2361 Children's Dresses and Blouses—Establishments primarily engaged in manufacturing girls', children's, and infants' dresses, blouses, waists, and shirts, cut and sewed from purchased woven or knit fabric.
- 2363 Children's Coats and Suits—Establishments primarily engaged in manufacturing girls', children's, and infants' coats and suits, cut and sewed from purchased woven or knit fabric.
- 2369 Children's Outerwear, N.E.C.—Establishments primarily engaged in manufacturing girls', children's, and infants' outerwear not elsewhere classified, cut and sewed from woven or knit fabric.
- 2384 Robes and Dressing Gowns—Establishments primarily engaged in manufacturing men's and women's robes and dressing gowns.
- 2391 Curtains and Draperies—Establishments primarily engaged in manufacturing curtains and draperies from purchased materials.
- 2392 House Furnishings, N.E.C.—Establishments primarily engaged in manufacturing house furnishings such as blankets, bedspreads, sheets, tablecloths, and towels from purchased materials.
- 2394 Canvas and Related Products—Establishments primarily engaged in manufacturing awnings, tents, and related products from purchased fabric.
- 2399 Fabricated Textile Products, N.E.C.—Establishments primarily engaged in manufacturing fabricated textile products, not elsewhere classified.
- 2821 Plastic Materials and Resins—Establishments primarily engaged in manufacturing synthetic resins, plastics materials, and nonvulcanizable elastomers. Important products of this industry include cellulose plastic materials.
- 2823 Cellulosic Manmade Fibers—Establishments primarily engaged in manufacturing cellulose fibers (including cellulose acetate and regenerated

cellulose such as rayon, by the viscose or cuprammonium process) in the form of monofilament, yarn, staple, or tow suitable for further manufacturing on spindles, looms, knitting machines, or other textile processing equipment.

Other secondary:

- 2491 Wood Preserving—Establishments primarily engaged in treating wood, sawed or planed in other establishments, with creosote or other preservatives to prevent decay and to protect against fire and insects. Also included is the cutting, treating, and selling of poles, posts, and piling, but establishments primarily engaged in manufacturing other wood products (which they may also treat with preservatives) are not included.
- 2499 Wood Products N.E.C.—Establishments primarily engaged in turning and shaping wood and

manufacturing miscellaneous wood products, rattan, reed, splint, straw, veneer, veneer strips, wicker, and willow. Also included are establishments manufacturing lasts and related products, cork products, hardboard, and wood or metal mirror and picture frames. In 1967 and 1963, this SIC also included establishments primarily engaged in manufacturing pallets and skids.

Others—In addition to the SIC's shown, the data on employment and value added attributable to timber included the value added and employment attributed to timber in plants manufacturing ships and boats, small arms, morticians' goods, sporting and athletic goods, games and toys, and many other items in which small quantities of timber and timber products were incorporated. Compilations of total value added and total employment were not made for this large and diverse group of industries since they include nearly all manufacturing industries not defined above.

Table B-1-Types of firms included in the major primary and secondary industries, 1972, 1967, and 1963.

Industry	1972	1967	1963	Industry	1972	1967	196
				Paper and paperboard products (cont'd)			
Primary manufacturing				Bags, except textile bags (SIC 2643)	l x	x	l x
Sawmills and planing mills				Wallpaper (SIC 2644)	10	X	l x
Sawmills and planing mills, general (SIC 2421)	x	x	l x l	Die-cut paper and board (SIC 2645)	x	X	x
Hardwood dimension and flooring (SIC 2426)	X	X	X	Pressed and molded pulp goods (SIC 2646)	X	X	l x
Hardwood difficusion and flooring (57C 2420)	1 "	l ^	^	Sanitary paper products (SIC 2647)	X	X	X X
Veneer and plywood plants				Stationery products (SIC 2648)	X12	1 ^	^
Veneer and plywood plants (SIC 2432)	2	X	X	Converted paper products, nec (SIC 2649)	X1012	x	l x
Hardwood veneer and plywood plants (SIC 2435)	X ²			Folding paperboard boxes (SIC 2651)	X	x	l x
Softwood veneer and plywood plants (SIC 2436)	X2			Set-up paperboard boxes (SIC 2652)	l â	x	1 x
			1			X	x X
Pulp, paper, and paperboard mills				Corrugated and solid fiber boxes (SIC 2653)	X		
Pulp mills (SIC 2611)	X	X	X	Sanitary food containers (SIC 2654)	X	X	X
Papermills except building paper (SIC 2621)	X	X	X	Fiber cans, drums and similar products (SIC 2655)	X	X	X
Paperboard mills (SIC 2631)	X	X	X	Fibers, plastics and textile products			
Building paper and board mills (SIC 2661)	X	X	X	Weaving mills, cotton (SIC 2211)	X	X	X
Oil				Weaving mills, cotton (3/C 2277) Weaving mills, synthetics (SIC 2221)	Î	x	x X
Other primary				Narrow fabric mills (SIC 2241)	î	x	l â
Special product sawmills, n.e.c. (SIC 2429)	X	X	X	Knit outerwear mills (SIC 2253)	1 ^	x	l â
Particleboard (SIC 2492)	X	X	X		X	l â	x x
Gum and wood chemicals (SIC 2861)	X,			Knit underwear mills (SIC 2254)	A		
				Knit fabric mills (SIC 2256)	X''	X	X
econdary manufacturing				Warp knit fabric mills (SIC 2258)			
Millwork, and prefabricated wood products				Knitting mills, n.c.c. (SIC 2259)	X	X	X
	X4			Finishing plants, synthetics (SIC 2262)	X	X	X
Millwork (SIC 2431)	^.	x	x	Tufted carpets and rugs (SIC 2272)	X	X	X
Prefabricated wood structures (SIC 2433)		X	X	Yarn mills, except wool (SIC 2281)	X	X	X
Wood kitchen cabinets (SIC 2434)	X ⁴			Throwing and winding mills (SIC 2282)	X	X) X
Structural wood members, n.e.c. (SIC 2439)	X'			Thread mills (SIC 2284)	X	X	
Mobile homes (SIC 2451)	X ⁶			Processed textile waste (SIC 2294)		- v	
Prefabricated wood buildings (SIC 2452)	X,			Tire cord and fabric (SIC 2296)	X	X	X
Trailer coaches (SIC 3791)		X	X	Nonwoven fabric mills (SIC 2297)	X	X	X
Wooden containers				Cordage and twine (SIC 2298)	X14		
Nailed wood boxes and shook (SIC 2441)	×	X	x	Men's and boy's suits and coats (SIC 2311)	X	X	X
Wirebound boxes and crates (SIC 2442)	1 ^,	x	x	Men's and boy's shirts and nightwear (SIC 2321)	X	X	X
Veneer and plywood containers (SIC 2443)	,	l x	l î	Men's and boy's neckwear (SIC 2323)	X	X	X
	,	l x	X	Men's and boy's separate trousers (SIC 2327)	X	X	X
Cooperage (SIC 2445)	X ¹	^	1 ^ 1	Men's and boy's clothing, n.e.c. (SIC 2329)	X	X	X
Wood pallets and skids (SIC 2448)				Women's, misses' blouses and waists (SIC 2331)	X	X	X
Wood containers, n.e.c. (SIC 2449)	X,			Women's, misses' dresses (SIC 2335)	X	X	X
Furniture				Women's, misses' suits, skirts, coats (SIC 2237)	X	X	X
Wood household furniture (SIC 2511)	X**	l x	x	Women's and children's underwear (SIC 2341)	X	X	X
Upholstered household furniture (SIC 2512)	X,	X	x	Children's dresses and blouses (SIC 2361)	X	X	X
Metal household furniture (SIC 2514)	x	x x	l x	Children's coats and suits (SIC 2363)	X	X	X
Mattresses and bedsprings (SIC 2515)	l x	X	X	Children's outerwear, n.e.c. (SIC 2369)	X	l x	X
Wood TV and radio cabinets (SIC 2517)	x,	1 ^	1 ^ 1	Robes and dressing gowns (SIC 2384)	l x	X	X
Household furniture, n.e.c. (SIC 2519)	l â	x	x	Curtains and draperies (SIC 2391)	X	X	X
				House furnishings, n.e.c. (SIC 2392)	X	X	l x
Wood office furniture (SIC 2521)	X	X	X	Canvas products (SIC 2394)	X	X X	X
Public building and related furniture (SIC 2531)	X	X	X	Fabricated textile products, n.e.c. (SIC 2399)	X	l x	X
Wood partitions and fixtures (SIC 2541)	X	X	X	Plastics materials and resins (SIC 2821)	x	x	x
Metal partitions and fixtures (SIC 2542)	X	X	X	Cellulosic man-made fibers (SIC 2823)	^	x	x
Furniture and fixtures, n.e.c. (SIC 2599)	X	X	X		X	x	x
Paper and paperboard products				Other secondary	X	X	X
	V	l v	l x	Wood preserving (SIC 2491)			
Paper coating and glazing (SIC 2641)	X	X		Wood products, n.e.c. (SIC 2499)	X''	X	X
Envelopes (SIC 2642)	A	A	X	Others	X	X	X

¹ In 1972, SIC 2426 includes wood furniture frame manufacture which was a part of SIC 2512 in 1967 and 1963.

² In 1967 and 1963, both hardwood and softwood veneer and plywood plants were in SIC 2432.

³ In 1967 and 1963, particleboard was a part of SIC 2499.

^{*} In 1972, new SIC 2434 was established by combining wood kitchen cabinets to be built in from 2431 and other wood kitchen cabinets from 2511.

⁵ In 1967 and 1963, structural wood members, n.c.c. and prefabricated wood buildings were in SIC 2433.

⁶ In 1967 and 1963, mobile home manufacture was a part of SIC 3791.

⁷ In 1972, former SIC's 2442, 2443, and 2445 were combined in 2449.

¹ In 1967 and 1963, wood pallets and skids manufacture was a part of 2499.

⁹ In 1967 and 1963, wood TV and radio cabinet manufacture was a part of 2511.

¹⁰ In 1972, wallpaper manufacture was a part of 2649.

¹¹ In 1972, includes paper disposable diapers which were a part of 2399 in 1967 and 1963.

¹² In 1967 and 1963, stationery product manufacture was a part of 2649.

¹³ In 1967 and 1963, warp knit fabric mills were a part of 2256.

[&]quot; In 1967 and 1963, nonwoven fabric mills were a part of 2299.

Appendix C

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