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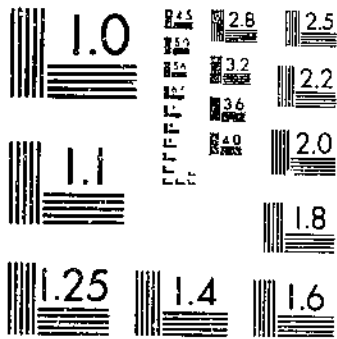
WOOD PRODUCTS USED IN THE CONSTRUCTION OF NONRESIDENTIAL U.S.

1969

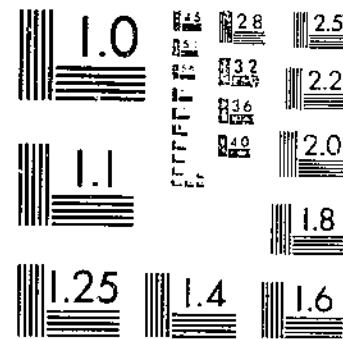
WRIGHT, G. REID, JR.

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# Wood Products

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Used in the  
Construction of  
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*William H. Reid and  
Maurice G. Wright  
Division of Forest  
Economics and  
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AGRICULTURE

FOREST SERVICE

# **Wood Products Use in the Construction of Nonresidential and Nonhousekeeping Building - United States, 1969**

**Maurice G. Wright and William H. Reid  
Division of Forest Economics and Marketing Research**

**Statistical Bulletin 534**

**U.S. Department of Agriculture**

**Forest Service**

**September 1974**

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## PREFACE

This report presents estimates of the amounts of wood products consumed in nonresidential and non-housekeeping building construction in the United States during 1969. Wood products included are lumber, glued-laminated lumber, plywood, hardboard, particleboard, insulation board, and structural wood-fiberboard. Consumption of these materials is shown by building type (nonhousekeeping, industrial, commercial, religious, educational, hospital, and other), by structural class (wood, steel/masonry, and concrete), by major end use (roof, exterior wall, floor, millwork, and facilitating), and by construction item.

Factors of wood products use are shown per 100 square feet of floor area and per 1,000 dollars of construction value, by building type and structural class.

This is one of a series of studies on wood use conducted under the provisions of the McSweeney-McNary Forest Research Act of 1928, as amended which

authorized and directed the Secretary of Agriculture to cooperate with State and other agencies "in making and keeping current a comprehensive survey of present and prospective requirements for timber and other forest products."

Acknowledgment is made to the more than 1700 architects and contractors who provided building project information consisting of construction cost data and estimates of the amount of wood materials required for the forming of concrete and other facilitating purposes. Within the Forest Service, special appreciation is expressed to Harry Kevich and staff, Architectural Branch, Division of Engineering, Region 5, for performing materials take-off from plans and specifications of buildings in the West Region and to David Neebe, Joseph Morsch, and David McKeever for developing computer programs used for data analysis and computation.

## CONTENTS

	<i>Page</i>
Summary .....	iv
Characteristics of buildings .....	1
Floor area .....	1
Construction value .....	1
Value of construction per square foot of floor area .....	2
Wood products use in building construction .....	3
Lumber .....	3
Total lumber .....	3
Glued-laminated lumber .....	4
Plywood .....	4
Hardboard .....	5
Particleboard .....	5
Insulation board .....	7
Structural wood-fiberboard .....	8
Appendix	
Definitions .....	9
Survey procedure .....	10
Measurement of construction activity .....	10
Measurement of wood use .....	10
Tables .....	11

## SUMMARY

Nonresidential and nonhousekeeping building construction in the United States during 1969 amounted to 1.6 billion square feet of floor area and \$32.7 billion of construction value. Industrial and commercial buildings made up 64 percent of the floor area constructed and 51 percent of the construction value. Almost three-quarters of the floor area and two-thirds of the construction value of building projects were classified in the steel/masonry structural class. Construction value per square foot of floor area was highest for hospital buildings (\$35.82) and lowest for industrial buildings (\$13.77).

Lumber used in building construction amounted to more than 1.6 billion board feet. Approximately half of the lumber was used in industrial and commercial buildings, and in buildings classified in the wood structural class.

Glued-laminated lumber used in building construction amounted to 192 million board feet. Forty percent went into industrial buildings and only two percent in nonhousekeeping and hospital buildings. Practically all glued-laminated lumber was used in the wood structural class.

Plywood used in building construction amounted to over 974 million square feet (3/8-inch basis). Approximately two-thirds was used in industrial, commercial and educational buildings. About 80 percent of the total

plywood used was almost equally divided between the wood and steel/masonry structural classes.

Of almost 42 million square feet (1/8-inch basis) of hardboard put into building construction, 60 percent was used in educational and commercial buildings, primarily as paneling and millwork. Among the structural classes, steel/masonry took 61 percent of the hardboard.

Approximately 14 million square feet (3/4-inch basis) of particleboard was used in building construction, 58 percent of it in nonhousekeeping and educational buildings, primarily in the form of millwork. Most of the particleboard (61 percent) was used in buildings in the steel/masonry structural class.

More than 80 million square feet (1/2-inch basis) of insulation board was used in construction. Approximately half was put into industrial buildings, and a third into commercial, educational, and nonhousekeeping buildings. Over 92 percent was used as roof insulation. Buildings in the steel/masonry structural class accounted for 83 percent of the total.

Structural wood-fiberboard used in building construction amounted to 185 million square feet (1-inch basis), over half (56 percent) in industrial buildings and under a third (29 percent) in educational buildings. Practically 95 percent of the structural wood-fiberboard went into roof decking. Almost 90 percent of the total was used in buildings in the steel/masonry structural class.



## CHARACTERISTICS OF BUILDINGS

The characteristics of nonresidential and nonhousekeeping construction, as indicated by building type, structural class, floor area, and value of construction, are important in determining the requirements for wood products in building construction. Both floor area and value of construction are measurements of construction activity and are available from public and private sources.

The building projects on which this study was based were classified into seven building types—nonhousekeeping, industrial, commercial, religious, educational, hospital, and other—and three structural classes—wood, steel/masonry, and concrete.<sup>1</sup> The seven building types vary in lumber and plywood requirements. This is due to the amount of construction activity among building types, differences in uses of buildings, building code requirements, and preferences of individuals specifying construction materials. The three structural classes grouped those projects having comparable material requirements.

For each project, wood products use was determined by building component and construction item. Building components consisted of roof, floor, exterior wall, interior wall, and millwork. Wood products used for facilitating purposes, such as concrete formwork or other temporary uses were also included as a component of building construction.

### FLOOR AREA

Of the 1.6 billion square feet of floor area contained in nonhousekeeping and nonresidential buildings constructed in 1969, one-third was in industrial buildings, almost a third in commercial, and the balance in the five remaining building types, ranging from 15 percent in educational to 3 percent in religious buildings (table 1, fig. 1).

Nearly three-fourths of the floor area of all buildings was in the steel/masonry structural class. The remainder was almost equally divided between the wood and concrete classes. Industrial, commercial, and educational buildings were predominantly steel/masonry construction. A high percentage of religious buildings (63 percent of floor area) was in the wood structural class and hospitals were most often of concrete construction. Ten percent or less of the floor areas in industrial, commercial, and religious projects were in the concrete struc-

tural class and less than five percent of the area of educational buildings was in the wood class.

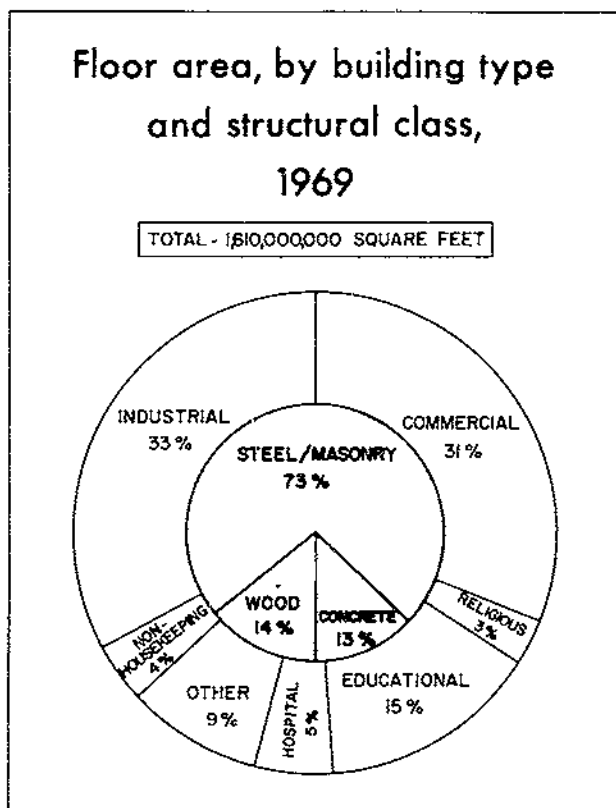


Figure 1

### CONSTRUCTION VALUE

In 1969 the amount of building construction as measured by value of construction put in place was more than 32.7 billion dollars (table 2, fig. 2). Almost three-fourths of this value was in commercial, industrial, and educational buildings, one-fifth in hospitals and other, and the remainder in religious and nonhousekeeping buildings.

Some 69 percent of the value of construction was in buildings in the steel/masonry structural class, 19 percent in the concrete, and 12 percent in the wood. The relationships between building type and structural class based on value of construction were essentially the same as those based on floor area.

<sup>1</sup>See definitions and procedure in the Appendix.

## Construction value, by building type and structural class, 1969

TOTAL - 32,715,000,000 DOLLARS

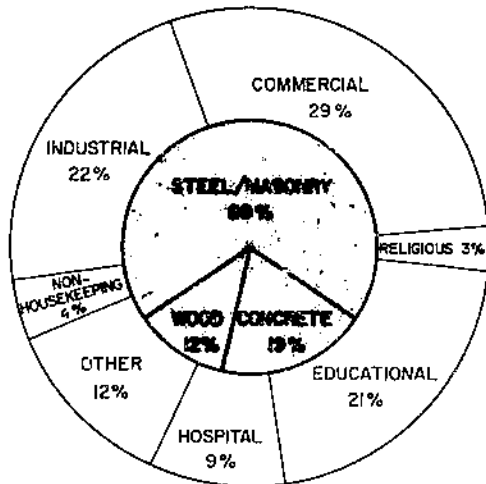


Figure 2

## VALUE OF CONSTRUCTION PER SQUARE FOOT OF FLOOR AREA

Construction value for all building types, regions, and structural classes averaged \$20.32 per square foot of floor area (table 3).<sup>2</sup> Hospitals had the highest value (\$35.82) per square foot, and industrial buildings the lowest (\$13.78). Buildings classified in the concrete structural class had the highest value (\$29.87) per square foot of floor area, and buildings in the wood structural class the lowest (\$16.88).

<sup>2</sup>Construction value per square foot of floor area (table 3) was derived by dividing the values of new construction put in place (table 2) by floor areas of new construction put in place (table 1).

# WOOD PRODUCTS USE IN BUILDING CONSTRUCTION

Wood products use per 100 square feet of floor area and per \$1000 of construction value were derived from a sample of building projects stratified by building type and structural class. Use factors for various wood products are shown in the following appendix tables:

- Table 4 - Lumber
- Table 14 - Glued laminated lumber
- Table 24 - Plywood
- Table 34 - Hardboard
- Table 44 - Particleboard
- Table 54 - Insulation board
- Table 64 - Structural wood-fiberboard

An estimated 1,644 million board feet of lumber, 216 million board feet of glued-laminated lumber, 974 million square feet of plywood (3/8-inch basis), 42 million square feet (1/8-inch basis) of hardboard, 14 million square feet (3/4-inch basis) of particleboard, 80 million square feet (1/2-inch basis) of insulation board, and 185 million square feet (1-inch basis) of structural wood-fiberboard were used in nonresidential and non-housekeeping building construction in the United States during 1969.

## LUMBER

### Total lumber

About half of the 1.6 billion board feet of lumber used, including glued-laminated lumber, went into industrial and commercial buildings (table 5, fig. 3). These buildings accounted for 64 percent of the floor area and 51 percent of the construction value. More than half of the lumber was used in the wood structural class which accounted for only 14 percent of the floor area and 12 percent of the construction value.

For all buildings, 44 percent of the lumber was used in roofs, principally as beams, rafters, joists, and decking (table 6, figure 4). Another 20 percent was used for facilitating purposes such as forming materials for concrete. The remaining 36 percent was about equally distributed in floors, walls, and millwork. Two-thirds of the lumber used in wood structures went into roofs while almost two-thirds of the lumber used in concrete buildings was for facilitating purposes.

Details of lumber use by building type, structural class, and construction item are shown in tables 7-13.

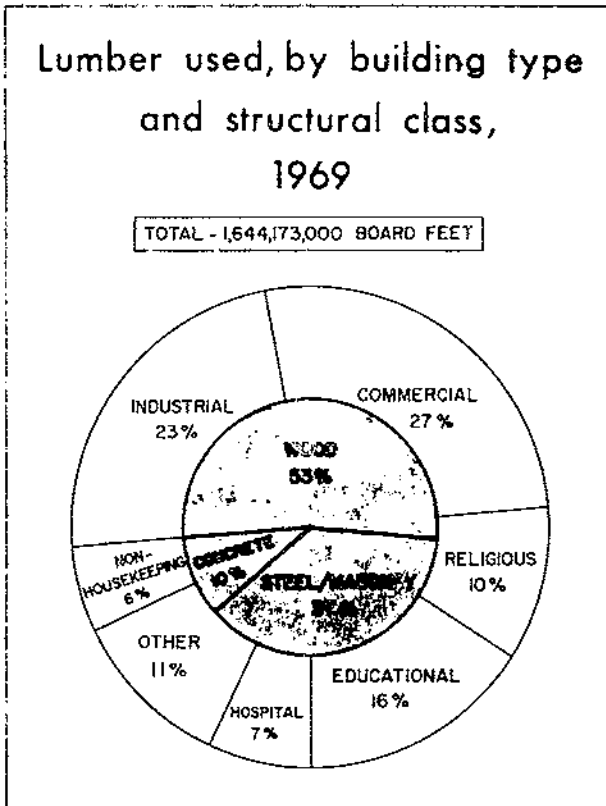


Figure 3

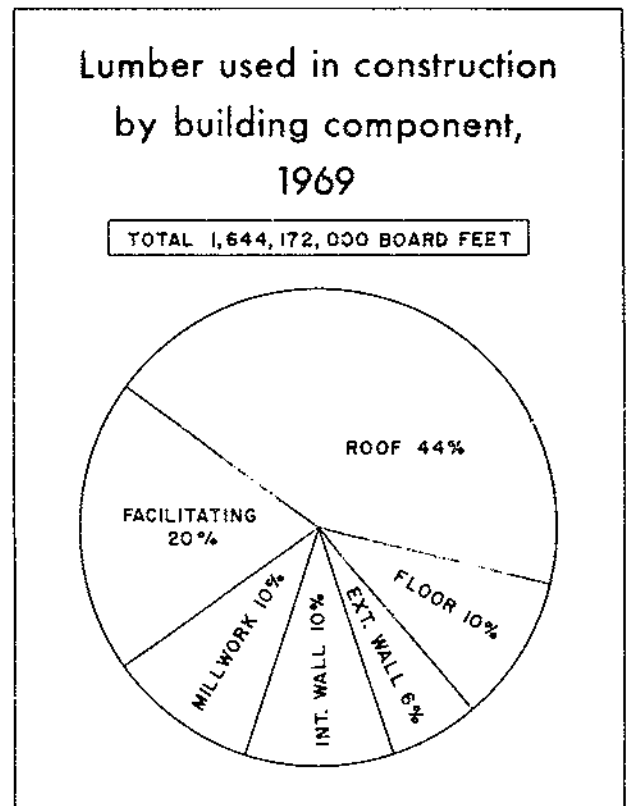


Figure 4

## Glued-laminated lumber

About 12 percent of the total lumber used in nonresidential and nonhousekeeping buildings was in glued-laminated products such as beams, purlins, and decking. Forty percent of the 192 million board feet of glued-laminated lumber was used in industrial buildings located primarily in the West<sup>3</sup> (table 15, fig. 5). Most of the remaining use was in commercial, religious, educational, and other buildings. Nonhousekeeping and hospital buildings accounted for only 2 percent.

Approximately 99 percent of the laminated lumber was used in buildings in the wood structural class, the other 1 percent in the steel/masonry and concrete classes.

## Glue-laminated lumber used by building type and structural class, 1969

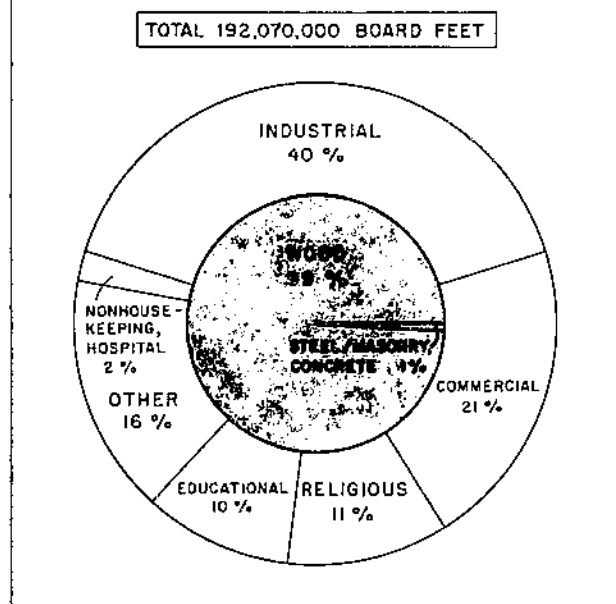


Figure 5

Ninety-five percent of the glued-laminated lumber was used in roofs principally as beams and purlins (table 16, fig. 6) Use in floor beams and decking accounted for most of the remainder.

Tables 17-23 show use of glued-laminated lumber by building type, structural class, and construction item.

<sup>3</sup>Reid, William H., and Wright, Maurice G. 1974. Lumber and plywood used in the construction of nonresidential and nonhousekeeping buildings, by regions in the United States, 1969. USDA Forest Service, Res. Pap. WO-24, 24 p.

## Glued-laminated lumber used in construction by building component, 1969

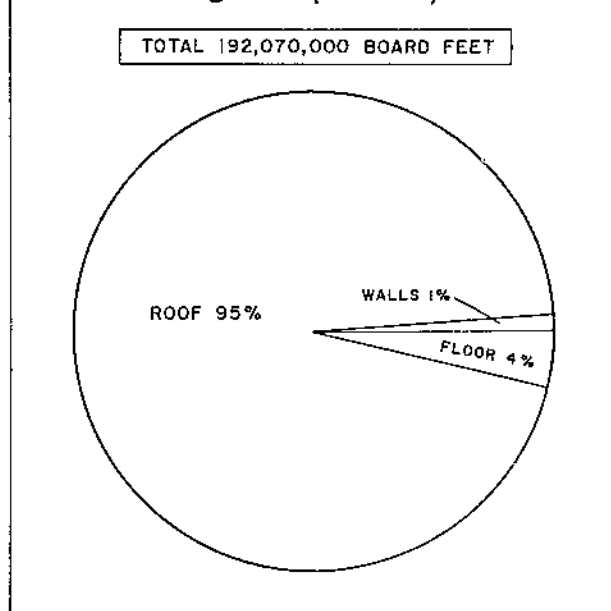


Figure 6

## PLYWOOD

Almost 975 million square feet (3/8-inch basis) of plywood was used in construction of nonresidential and nonhousekeeping buildings in 1969 (table 25, fig. 7). Though most of the plywood went into commercial (28 percent), educational (20 percent), and industrial buildings (17 percent); nonhousekeeping, religious and hospital buildings had the highest use per unit of floor area and construction value. Thirty-eight percent of the plywood was used in buildings in the wood structural class, 41 percent in the steel/masonry, and 21 percent in concrete structures.

Facilitating uses, roofs, and millwork items took most of the plywood used in all buildings (table 26, fig. 8). In the wood structural class, 53 percent went into roofs, nearly all of it as decking. About half of the plywood in steel/masonry buildings was used for facilitating purposes and one-fourth went into millwork items such as shelving and cabinets. In concrete structures, 72 percent of the plywood was used for facilitating purposes and 21 percent was used in millwork.

Plywood use in the different building types, by structural class and construction item, is detailed in tables 27-33.

## Plywood used, by building type and structural class, 1969

TOTAL - 974,397,000 SQUARE FEET  
(3/8-INCH BASIS)

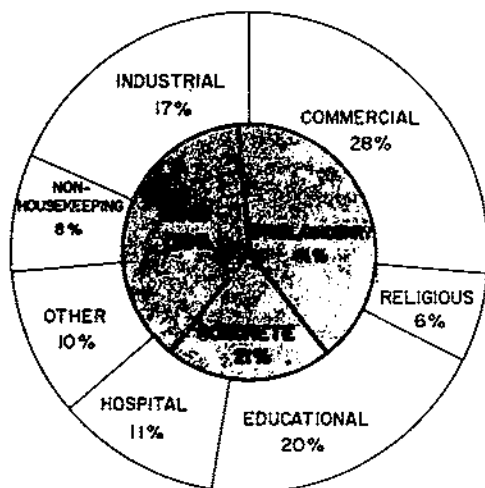


Figure 7

## Plywood used in construction by building component, 1969

TOTAL 974,397,000 SQUARE FEET  
(3/8-INCH BASIS)

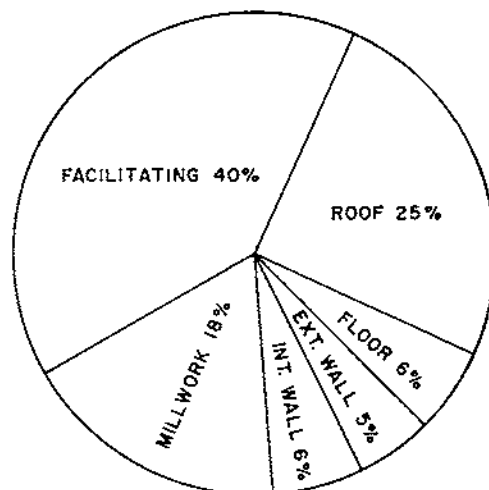


Figure 8

## HARDBOARD

Of the 42 million square feet of hardboard used in all nonresidential and nonhousekeeping buildings, 39 percent was used in educational and 21 percent in commercial buildings (table 35, fig. 9). Nonhousekeeping buildings had the highest use per unit of floor area and construction value and, thus, accounted for 12 percent of hardboard used though they represent only 4 percent of the floor area of all buildings. Use of hardboard by structural class was 61 percent in steel/masonry, 22 percent in wood, and 17 percent in concrete structures.

Almost 62 percent of all hardboard used was in millwork, primarily cabinets (table 36, fig. 10). Over 28 percent was used in interior walls as paneling and partitions. The remaining 10 percent was used in the exterior walls, roof, and floor areas, and for facilitating purposes.

Hardboard use by building type, construction item, and structural class is shown in tables 37-43.

## PARTICLEBOARD

Total particleboard use amounted to 14 million square feet (3/4-inch basis) (table 45, fig. 11), 58 percent in nonhousekeeping and educational buildings, 15 percent in hospital buildings, and the remaining 27 percent divided almost equally among the industrial, commercial, religious, and other buildings. Among structural classes 61 percent was used in steel/masonry, 24 percent in concrete, and 15 percent in wood structures.

Ninety percent of all particleboard was used for millwork, principally cabinets, shelving, and doors (table 46, fig. 12). Except for commercial and religious buildings, use of particleboard within building types was similar to that in all buildings (tables 47-53). Particleboard was used in the floor of commercial and in the roof of religious buildings in addition to being used as millwork.

### Hardboard used, by building type and structural class, 1969

TOTAL - 41,835,000 SQUARE FEET  
(1/8-INCH BASIS)

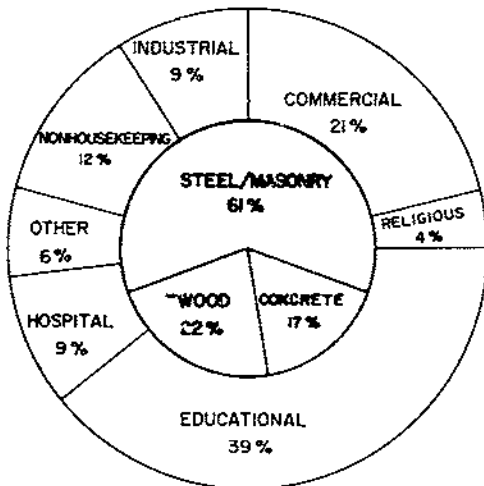


Figure 9

### Particleboard used, by building type and structural class, 1969

TOTAL - 13,817,000 SQUARE FEET  
(3/4-INCH BASIS)

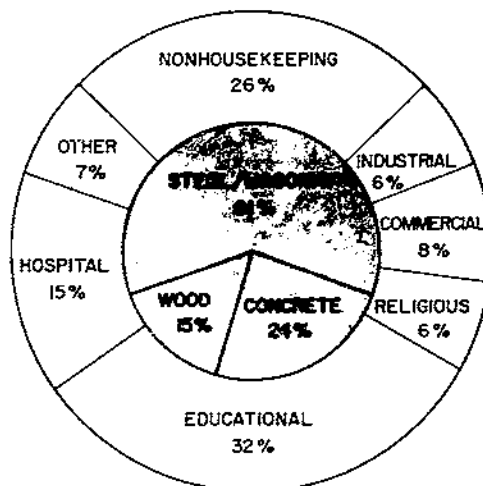


Figure 11

### Hardboard used in construction by building component, 1969

TOTAL 41,835,000 SQUARE FEET  
(1/8-INCH BASIS)

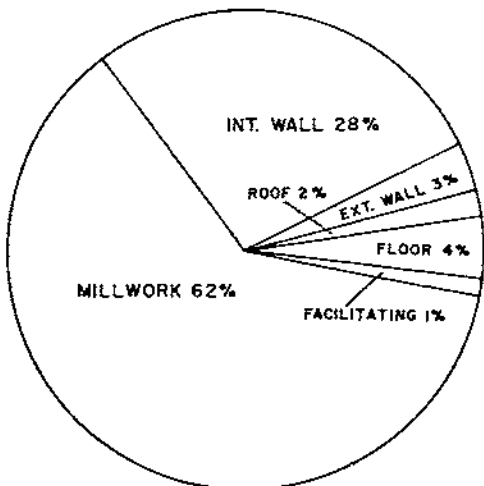


Figure 10

### Particle board used in construction by building component, 1969

TOTAL 13,817,000 SQUARE FEET  
(3/4-INCH BASIS)

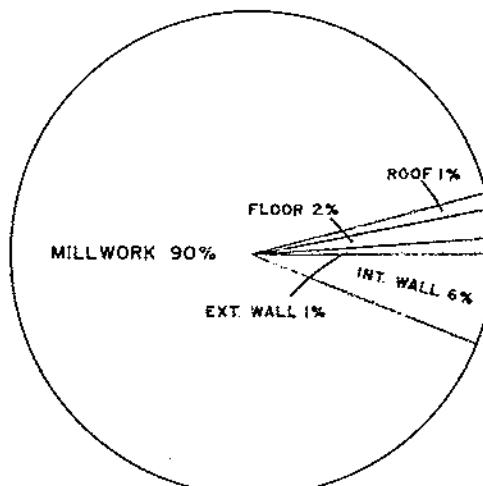


Figure 12

## INSULATION BOARD

Total use of insulation board amounted to 80 million square feet (1/2-inch basis) (table 55, fig. 13). Slightly less than 51 percent was used in industrial buildings, 15 percent in commercial buildings, and 11 percent in educational buildings. Over 83 percent was used in the

steel/masonry structural class. The remaining 17 percent was almost equally divided between the wood and concrete structural classes.

Almost 93 percent was used as roof insulation (table 56, fig. 14). Another 4 percent was as underlayment in the floor areas of nonhousekeeping and commercial buildings (tables 57-63).

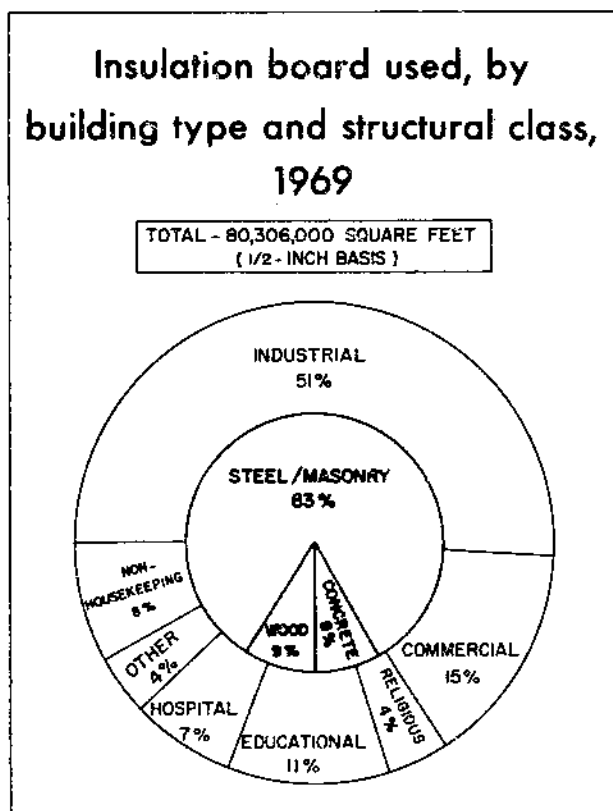


Figure 13

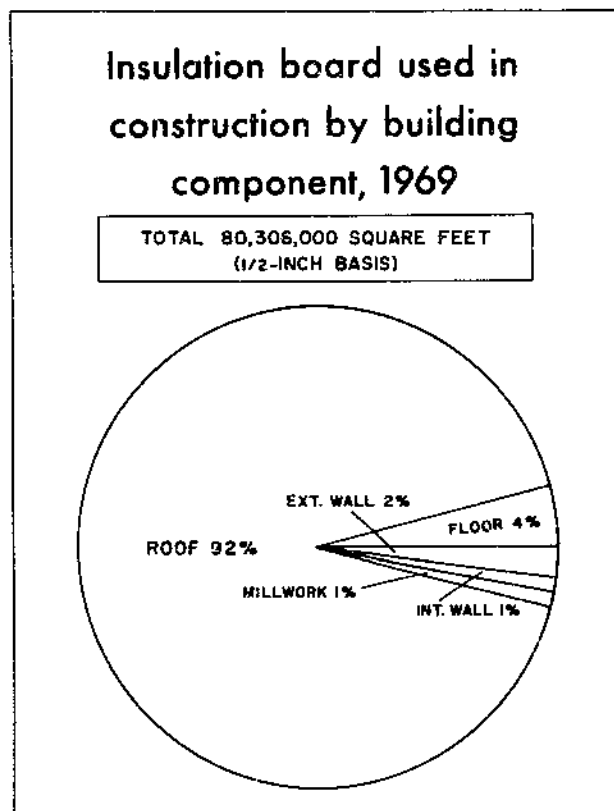


Figure 14

## STRUCTURAL WOOD-FIBERBOARD

Structural wood fiberboard<sup>4</sup> use amounted to 185 million square feet (1-inch basis) (table 65, fig. 15), 85 percent of it in industrial and educational buildings. Almost 90 percent was used in the steel/masonry structural class. Nearly all (99 percent) of the structural wood-fiberboard was used in the roof area principally as decking (table 66, fig. 16). Minor amounts were used in

commercial, educational, and hospital buildings as paneling (tables 67-73).

<sup>4</sup>Structural wood-fiberboard is manufactured from excelsior-like strands of wood fibers and inorganic hydraulic cement (portland cement or gypsum) bonded together under pressure and heat. Densities of the product may range from 22 to 36 pounds per cubic foot; thicknesses from 2 to 4 inches; and widths from 24 to 48 inches.

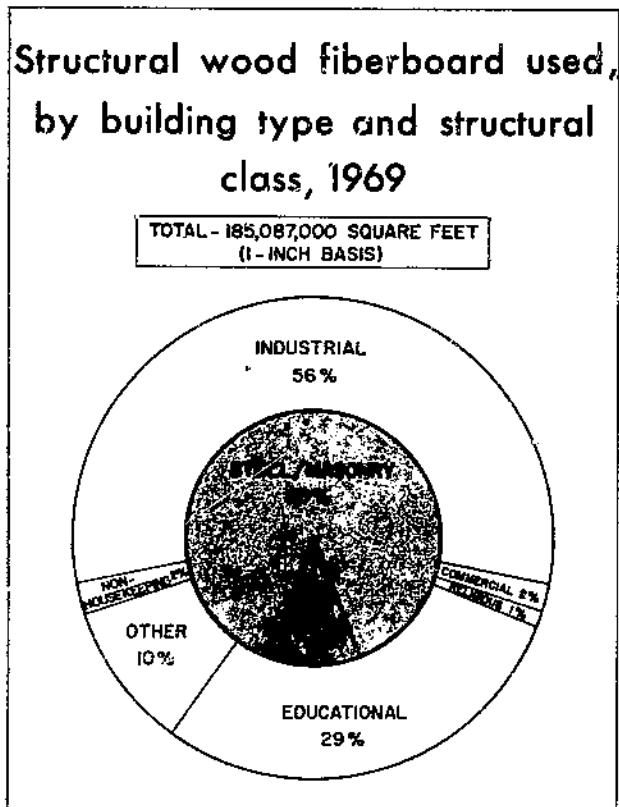


Figure 15

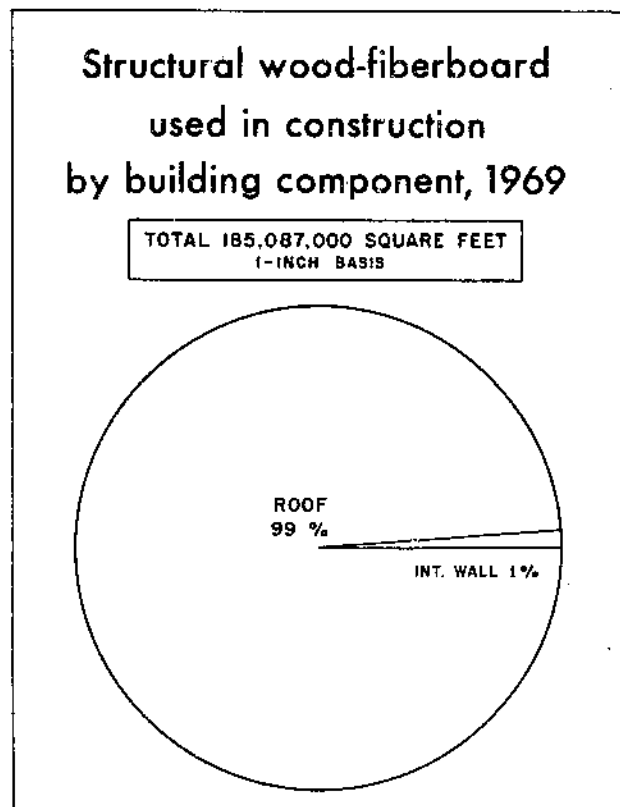


Figure 16



# APPENDIX

## DEFINITIONS

### *Building type<sup>1</sup>*

Nonhousekeeping	Buildings that provide residential facilities other than housing units and are generally characterized as nonhousekeeping quarters such as hotels (other than apartment hotels), motels, and dormitories.
Industrial	Buildings of manufacturing establishments, as defined in major groups 19-39 of the Standard Industrial Classification Manual, which are used to house production, assembly, and warehousing activities as well as auxiliary facilities such as administration buildings.
Commercial	Buildings that are primarily for the rental of office space, to house banks and other financial institutions, or for use in wholesale, retail, and service trades, such as stores, restaurants, and garages.
Educational	Buildings that are used directly in the administrative and instructional activities of establishments furnishing formal academic or technical courses. These establishments include colleges and universities, elementary and secondary schools, libraries, museums, and art galleries as well as laboratories which are not part of manufacturing establishments.
Religious	Buildings that are used primarily for religious services and functions or to house and train religious personnel; such as churches, synagogues, convents, monasteries, theological seminaries, etc., as well as funeral parlors, mausoleums, and crematories.
Hospital	Buildings for establishments which are primarily engaged in providing hospital and institutional care as general, mental, and tuberculosis hospitals, clinics or infirmaries, sanitariums, nursing homes, homes for the aged, orphanages, etc.
Other	Buildings, except farm and public utilities, which are not elsewhere classified such as auditoriums, theaters, indoor swimming pools, fire stations, bus and air passenger terminals, etc.

### *Structural class*

Wood	Buildings that used wood in one or more of the following structural areas: a. Wall framing consisting of wood studs or timbers. b. Floor framing consisting of wood joists or beams. c. Roof framing consisting of wood rafters, trusses, beams, or decking.
Steel/masonry	Buildings whose structural framing consisted of steel columns, truss and girders, or buildings whose exterior walls consisted of concrete block, brick, or precast concrete and whose floor and roof support consisted of materials other than wood.
Concrete	Buildings whose structural framing consisted of reinforced concrete poured in place and whose floor or roof support consisted of materials other than wood.

### *Other*

Floor area	Measurements were taken to the outside of the exterior walls and include all enclosed, useable floor space.
Construction value	Includes cost of construction materials installed, labor, contractor's profit, architect's and engineer's fees, and building site preparation.
Value of construction put in place	A measure of the value of construction installed or erected at the site during given period. It includes new construction, additions, and alterations.

<sup>1</sup>U.S. Department of Commerce Bureau of Census. 1971. Value of new construction put in place—1958 to 1970. Construction C30-70S, 101 p.

## SURVEY PROCEDURE

This survey procedure may be divided in two categories—(1) measurement of construction activity, and (2) measurement of wood use.

### Measurement of construction activity

In order to stratify construction activity in the United States, a sample of 6,400 building projects was selected from 54,000 projects for which contracts for construction were awarded during the period of March 1, 1969, through August 30, 1969. The sample projects were selected on the basis that the probability of selection was proportional to size, as measured by contract award value. F.W. Dodge Division provided Dodge Construction Reports for each of the 6,400 projects selected. Based on information contained in the reports, projects were classified into three structural classes—(1) wood, (2) steel/masonry, and (3) concrete. This information and other pertinent data concerning the project such as building type, floor area, and contract award value were entered on punch cards to facilitate data processing.

### Measurement of wood use

Wood usage was determined by a material take-off from the plans and specifications of 842 building projects, and by contacting the building contractors for the project to determine the amount of wood required for the forming of concrete. Although this technique was time consuming, the use factors developed in this study, with updating for obvious changes in materials usage, may be employed for estimating current wood product requirements.

The sample of 842 building projects was selected from 5,400 projects reported in the Scan-Scope Weekly Bulletin during the period from July 1, 1968, to December 31, 1968. The projects were arrayed by building type and value, and the sample selected with the probability of selection proportional to value. Microfilms of architectural plans and specifications were obtained for each of the sample projects.

Measurements were taken from the plans relating to lumber and plywood use and converted to standard units of measure, i.e., board feet and square feet (3/8-inch basis). Regression equations were developed in the form  $Y = A \cdot X^B$ , where Y equals amount of wood use, X equals size of project in floor area or construction value, A equals a constant factor, and B equals a constant exponent. Regression equations relating construction

cost and floor area to lumber and plywood use were calculated for each building type and structural class. These equations were then applied to the 6,400 projects for which contracts for construction were awarded and which had been stratified by building type and structural class. Wood use per thousand dollars of construction and per 100 square feet of floor area were calculated for each stratum and applied to floor area and construction value resulting in total lumber and plywood use.

Wood use factors for glued-laminated lumber, hard-board, particleboard, insulation board, and structural wood-fiberboard were the sample mean value per 100 square feet of floor area and per \$1,000 of construction value.

The percentages of wood product use, shown by building type, structural classes, and construction items, were determined from the sample projects. These percentages were applied to the estimated total national use in each stratum to derive the amount of wood products use by building type, structural class, and construction item. The construction items are grouped under five building components as follows:

<i>Roof</i>	<i>Floor</i>
Trusses	Beams
Beams	Joists
Arches	Subflooring
Rafters/purlins	Decking
Joists	Underlayment
Decking	Finish flooring
Blocking	Stairs
Other	Other
<i>Exterior wall</i>	<i>Interior wall</i>
Studs	Studs
Furring	Furring
Siding	Partition
Sheathing	Paneling
Cornice/mansard	Other
Other	
<i>Millwork</i>	
Exterior doors	Base cabinets
Interior doors	Wall cabinets
Windows	Storage cabinets
Moulding/trim	Other
Shelving	

## TABLES

<i>Table</i>	<i>Page</i>	<i>Table</i>	<i>Page</i>
1. Floor area of new construction put in place, by building type and structural class—United States, 1969 .....	14	15. Glued-laminated lumber used in construction, by building type and structural class—United States, 1969 .....	28
2. Value of new construction put in place, by building type and structural class—United States, 1969 .....	15	16. Glued-laminated lumber used in all buildings, by construction item and structural class, 1969 .....	29
3. Construction value per square foot of floor area, by building type and structural class—United States, 1969 .....	16	17. Glued-laminated lumber used in nonhouse-keeping buildings, by construction item and structural class, 1969 .....	30
4. Lumber used per 100 square feet of floor area and per \$1,000 dollars of construction value, by building type and structural class—United States, 1969 .....	17	18. Glued-laminated lumber used in industrial buildings, by construction item and structural class, 1969 .....	30
5. Lumber used in construction, by building type and structural class—United States, 1969 .....	18	19. Glued-laminated lumber used in commercial buildings, by construction item and structural class, 1969 .....	31
6. Lumber used in all buildings, by construction item and structural class, 1969 .....	19	20. Glued-laminated lumber used in religious buildings, by construction item and structural class, 1969 .....	31
7. Lumber used in nonhousekeeping buildings, by construction item and structural class, 1969 .....	20	21. Glued-laminated lumber used in educational buildings, by construction item and structural class, 1969 .....	32
8. Lumber used in industrial buildings, by construction item and structural class, 1969 .....	21	22. Glued-laminated lumber used in hospital buildings, by construction item and structural class, 1969 .....	32
9. Lumber used in commercial buildings, by construction item and structural class, 1969 .....	22	23. Glued-laminated lumber used in other buildings, by construction item and structural class, 1969 .....	33
10. Lumber used in religious buildings, by construction item and structural class, 1969 .....	23	24. Plywood used per 100 square feet of floor area and per \$1,000 of construction value, by building type and structural class—United States, 1969 .....	34
11. Lumber used in educational buildings, by construction item and structural class, 1969 .....	24	25. Plywood used in construction, by building type and structural class—United States, 1969 .....	35
12. Lumber used in hospital buildings, by construction item and structural class, 1969 .....	25	26. Plywood used in all buildings, by construction item and structural class, 1969 .....	36
13. Lumber used in other buildings, by construction item and structural class, 1969 .....	26	27. Plywood used in nonhousekeeping, by construction item and structural class, 1969 .....	37
14. Glued-laminated lumber used per 100 square feet of floor area and per \$1,000 of construction value, by building type and structural class—United States, 1969 .....	27		

<i>Table</i>	<i>Page</i>	<i>Table</i>	<i>Page</i>
28. Plywood used in industrial buildings, by construction item and structural class, 1969 . . . .	38	44. Particleboard used per 100 square feet of floor area and per \$1,000 of construction value, by building type and structural class—United States, 1969 . . . . .	51
29. Plywood used in commercial buildings, by construction item and structural class, 1969 . . . .	39	45. Particleboard used in construction, by building type and structural class—United States, 1969 . . . . .	52
30. Plywood used in religious buildings, by construction item and structural class, 1969 . . . .	40	46. Particleboard used in all buildings, by construction item and structural class, 1969 . . . . .	53
31. Plywood used in educational buildings, by construction item and structural class, 1969 . . . .	41	47. Particleboard used in nonhousekeeping buildings, by construction item and structural class, 1969 . . . . .	54
32. Plywood used in hospital buildings, by construction item and structural class, 1969 . . . .	42	48. Particleboard used in industrial buildings, by construction item and structural class, 1969 . . . . .	54
33. Plywood used in other buildings, by construction item and structural class, 1969 . . . . .	43	49. Particleboard used in commercial buildings, by construction item and structural class, 1969 . . . . .	55
34. Hardboard used per 100 square feet of floor area and per \$1,000 of construction value, by building type and structural class—United States, 1969 . . . . .	44	50. Particleboard used in religious buildings, by construction item and structural class, 1969 . . . . .	55
35. Hardboard used in construction, by building type and structural class—United States, 1969 . . . . .	45	51. Particleboard used in educational buildings, by construction item and structural class, 1969 . . . . .	56
36. Hardboard used in all buildings, by construction item and structural class, 1969 . . . . .	46	52. Particleboard used in hospital buildings, by construction item and structural class, 1969 . . . . .	56
37. Hardboard used in nonhousekeeping buildings, by construction item and structural class, 1969 . . . . .	47	53. Particleboard used in other buildings, by construction item and structural class, 1969 . . . . .	57
38. Hardboard used in industrial buildings, by construction item and structural class, 1969 . . . . .	47	54. Insulation board used per 100 square feet of floor area and per \$1,000 of construction value, by building type and structural class—United States, 1969 . . . . .	58
39. Hardboard used in commercial buildings, by construction item and structural class, 1969 . . . . .	48	55. Insulation board used in construction, by building type and structural class—United States, 1969 . . . . .	59
40. Hardboard used in religious buildings, by construction item and structural class, 1969 . . . . .	48	56. Insulation board used in all buildings, by construction item and structural class, 1969 . . . . .	60
41. Hardboard used in educational buildings, by construction item and structural class, 1969 . . . . .	49	57. Insulation board used in nonhousekeeping buildings, by construction item and structural class, 1969 . . . . .	61
42. Hardboard used in hospital buildings, by construction item and structural class, 1969 . . . . .	49		
43. Hardboard used in other buildings, by construction item and structural class, 1969 . . . . .	50		

<i>Table</i>	<i>Page</i>	<i>Table</i>	<i>Page</i>
58. Insulation board used in industrial buildings, by construction item and structural class, 1969 .....	61	66. Structural wood-fiberboard used in all buildings, by construction item and structural class, 1969 .....	67
59. Insulation board used in commercial buildings, by construction item and structural class, 1969 .....	62	67. Structural wood-fiberboard used in nonhouse-keeping buildings, by construction item and structural class, 1969 .....	68
60. Insulation board used in religious buildings, by construction item and structural class, 1969 .....	62	68. Structural wood-fiberboard used in industrial buildings, by construction item and structural class, 1969 .....	68
61. Insulation board used in educational buildings, by construction item and structural class, 1969 .....	63	69. Structural wood-fiberboard used in commercial buildings, by construction item and structural class, 1969 .....	68
62. Insulation board used in hospital buildings, by construction item and structural class, 1969 .....	63	70. Structural wood-fiberboard used in religious buildings, by construction item and structural class, 1969 .....	69
63. Insulation board used in other buildings, by construction item and structural class, 1969 .....	64	71. Structural wood-fiberboard used in educational buildings, by construction item and structural class, 1969 .....	69
64. Structural wood-fiberboard used per 100 square feet of floor area and per \$1,000 of construction value, by building type and structural class—United States, 1969 .....	65	72. Structural wood-fiberboard used in hospital buildings, by construction item and structural class, 1969 .....	70
65. Structural wood-fiberboard used in construction, by building type and structural class—United States, 1969 .....	66	73. Structural wood-fiberboard used in other buildings, by construction item and structural class, 1969 .....	70

Table 1.--Floor area of new construction put in place, by building type and structural class--United States, 1969

(Hundred square feet)

Building type	Structural class			
	Wood	Steel/ masonry	Concrete	All classes
Nonhousekeeping	138,977	233,891	217,132	590,000
Industrial	686,201	4,442,672	171,126	5,300,000
Commercial	681,404	3,796,043	472,553	4,950,000
Religious	277,871	137,718	24,411	440,000
Educational	135,044	1,871,645	463,310	2,470,000
Hospital	135,597	302,839	391,564	830,000
Other	203,398	956,922	359,680	1,520,000
All buildings	2,258,493	11,741,729	2,099,778	16,100,000

Note: Data may not add to totals because of rounding.

Sources: Derived from a special report prepared by F. W. Dodge Division, McGraw-Hill Information Systems Company, New York, N. Y., for the Forest Service, USDA, under contract 13-407; U.S. Department of Commerce, "Statistical Abstract of the United States, 1971", Table 1096, "Construction Contracts;" and "Construction Review, December 1971," Table 1-A.

Table 2.--Value of new construction put in place, by building type and structural class--United States, 1969

(Thousand dollars)

Building Type	Structural class			
	Wood	Steel/ masonry	Concrete	All classes
Nonhousekeeping	257,198	528,112	591,689	1,377,000
Industrial	903,273	6,055,821	341,906	7,301,000
Commercial	1,055,438	7,249,583	1,095,979	9,401,000
Religious	561,439	376,371	50,190	988,000
Educational	344,748	5,063,361	1,488,891	6,897,000
Hospital	314,726	970,276	1,687,998	2,973,000
Other	374,687	2,387,389	1,015,924	3,778,000
All buildings	3,811,510	22,630,911	6,272,577	32,715,000

Note: Data may not add to totals because of rounding.

Sources: Derived from U.S. Department of Commerce, Bureau of Census, Construction Review, Dec. 1971, Table 1-A; and from a special report prepared by F. W. Dodge McGraw-Hill Information Systems, New York, N. Y., for the Forest Service, USDA, under contract 13-407.

Table 3.--Construction value per square foot of floor area, by building type and structural class--United States, 1969

(Dollars)

Building type	Structural class			
	Wood	Steel/ masonry	Concrete	All classes
Nonhousekeeping	18.51	22.58	27.25	23.34
Industrial	13.16	13.63	19.98	13.78
Commercial	15.49	19.10	23.19	18.99
Religious	20.20	27.33	20.56	22.45
Educational	25.53	27.05	32.14	27.92
Hospital	23.21	32.04	43.11	35.82
Other	18.42	24.95	28.24	24.86
All buildings	16.88	19.27	29.87	20.32



Table 4.--Lumber used per 100 square feet of floor area and per \$1,000 of construction value, by building type and structural class--United States, 1969

(Board feet)

Building type	Structural class							
	Wood		Steel/masonry		Concrete		All classes	
	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value
Nonhousekeeping	416.76	225.20	73.04	32.35	99.00	36.33	163.56	70.08
Industrial	339.44	257.87	30.54	22.40	43.85	21.95	70.96	51.51
Commercial	330.12	213.13	51.36	26.89	62.13	26.79	90.76	47.79
Religious	488.20	241.63	110.89	40.58	143.95	70.01	351.01	156.32
Educational	530.40	207.77	83.52	30.87	87.92	27.36	108.78	38.96
Hospital	442.80	190.78	57.96	18.09	103.41	23.99	142.27	39.72
Other	399.15	216.68	73.09	29.30	83.03	29.49	119.14	47.93
All buildings	382.69	226.76	51.68	26.81	82.42	27.59	102.12	50.26

Table 5.--Lumber used in construction, by building type and structural class--United States, 1969

(Thousand board feet)

Building type	Structural class			
	Wood	Steel/ masonry	Concrete	All classes
Nonhousekeeping	57,920	17,084	21,496	96,500
Industrial	232,924	135,680	7,505	376,109
Commercial	224,944	194,957	29,359	449,260
Religious	135,659	15,272	3,514	154,445
Educational	71,627	156,320	40,733	268,679
Hospital	60,042	17,552	40,490	118,084
Other	81,187	69,946	29,962	181,096
All buildings	864,303	606,811	173,059	1,644,173

Note: Data may not add to totals because of rounding.

TABLE 6.-LUMBER USED IN ALL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1949

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT
TRUSSES	29356376.	3.397	1647281.	.271	49992.	.029	31053649.	1.889
ROOF BEAMS	178392449.	20.640	23238316.	3.830	573978.	.332	202204673.	12.298
ARCHES	9624350.	1.114	38103.	.006	0.	.000	9662452.	.588
RAFTERS/PURLINS	94749320.	10.963	16068353.	2.648	360749.	.208	111178422.	6.762
ROOF JOISTS	87069263.	10.074	17565527.	2.895	680185.	.393	105314975.	6.405
ROOF DECKING	112955305.	13.069	8254821.	1.360	1155218.	.668	122365344.	7.442
BLOCKING	26780319.	3.098	68162706.	11.233	5624362.	3.250	100567387.	6.117
OTHER ROOF	34747213.	4.020	13168008.	2.170	782311.	.452	48697532.	2.962
SUBTOTAL	573674594.	66.374	148143115.	24.413	9226725.	5.332	731044435.	44.463
FLOOR BEAMS	9490669.	1.098	677015.	.112	53224.	.031	10220907.	.622
FLOOR JOISTS	27156781.	3.142	10199579.	1.681	897774.	.519	38254094.	2.327
SUBFLOORING	1416213.	.164	5837931.	.962	996718.	.576	8250863.	.502
FLOOR DECKING	5601093.	.648	7408588.	1.221	219378.	.127	13229059.	.805
UNDERLAYMENT	167882.	.019	474047.	.078	97407.	.056	739335.	.045
FINISH FLOORING	6668778.	.772	41434871.	6.828	3855270.	2.228	51958880.	3.160
STAIRS	1734512.	.201	650398.	.107	75804.	.044	2460713.	.150
OTHER FLOOR	7637669.	.884	32204650.	5.307	5380854.	3.109	45223172.	2.751
SUBTOTAL	59873597.	6.927	98887078.	16.296	11576349.	6.689	170337025.	10.360
EXTERIOR STUDS	30036208.	3.475	5108911.	.842	314678.	.182	35459797.	2.157
EXTERIOR FURRING	1527248.	.177	2566295.	.423	1073293.	.620	5166837.	.314
EXTERIOR SIDING	7841287.	.907	2069920.	.341	61972.	.036	9973179.	.607
SHEATHING	114998.	.013	985737.	.162	0.	.000	1100735.	.067
CORNICE/MANSARD	9802393.	1.134	11972540.	1.973	210593.	.468	22585526.	1.374
OTHER EXT. WALL	7563291.	.875	8634319.	1.423	1255363.	.725	17452974.	1.062
SUBTOTAL	56885426.	6.582	31337723.	5.164	3515899.	2.032	91739047.	5.580
INTERIOR STUDS	69019977.	7.986	41956134.	6.914	5536370.	3.199	116512441.	7.086
INTERIOR FURRING	3742940.	.433	7299977.	1.203	1538007.	.889	12580925.	.765
PARTITION	1534936.	.178	4192815.	.691	1626774.	.940	7354486.	.447
PANELING	1962490.	.227	3603574.	.594	923148.	.533	6489212.	.395
OTHER INT. WALL	6742471.	.780	8503929.	1.401	1579966.	.913	16826365.	1.023
SUBTOTAL	83002814.	9.603	65556430.	10.803	11204185.	6.474	159763429.	9.717
EXTERIOR DOORS	3911226.	.453	4858353.	.801	553968.	.320	9323548.	.567
INTERIOR DOORS	17624027.	2.039	41675668.	6.868	12403609.	7.167	71703303.	4.361
WINDOWS	6421369.	.743	2830954.	.467	98400.	.057	9350783.	.569
MOULDING + TRIM	8928096.	1.033	10061249.	1.658	1993880.	1.152	20983724.	1.276
SHELVING	1246321.	.144	3780162.	.623	791379.	.457	5817822.	.354
BASE CABINETS	3490889.	.404	8013744.	1.321	3404656.	1.967	14909290.	.907
WALL CABINETS	1000134.	.116	2905675.	.479	1577979.	.912	5483789.	.334
STORAGE CABINETS	1638030.	.190	4518164.	.745	1839270.	1.063	7995423.	.486
OTHER MILLWORK	3795169.	.439	10015823.	1.651	2972787.	1.718	16783779.	1.021
SUBTOTAL	48055262.	5.560	88659793.	14.611	25635907.	14.813	162350962.	9.874
FACILITATING	42811306.	4.953	174226862.	28.712	111899974.	64.660	328938102.	20.006
ALL ITEMS	864303000.	100.000	606811000.	100.000	173059000.	100.000	1644173000.	100.000

TABLE 7.-LUMBER USED IN NONHOUSEKEEPING BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT
TRUSSES	3613851.	6.239	90961.	.532	49992.	.233	3754805.	3.891
ROOF BEAMS	1850653.	3.195	129735.	.759	58741.	.273	2039129.	2.113
RAFTERS/PURLINS	4787008.	8.265	192598.	1.127	299953.	1.395	5279558.	5.471
ROOF JOISTS	3495142.	6.034	211992.	1.241	30759.	.143	3737893.	3.873
ROOF DECKING	3013624.	5.203	342551.	2.005	146441.	.681	3502616.	3.630
BLOCKING	1392915.	2.405	707291.	4.140	339976.	1.554	2434181.	2.522
OTHER ROOF	2727522.	4.709	275259.	1.611	183985.	.879	3191666.	3.307
SUBTOTAL	20880714.	36.051	1950386.	11.416	1108747.	5.158	23939848.	24.808
FLOOR BEAMS	1190270.	2.055	0.	.000	0.	.000	1190270.	1.233
FLOOR JOISTS	5701800.	9.844	283643.	1.660	117060.	.545	6102502.	6.324
SUBFLOORING	0.	.000	0.	.000	14898.	.069	14898.	.015
FLOOR DECKING	260117.	.449	11457.	.067	0.	.000	271575.	.281
FINISH FLOORING	12253.	.021	376029.	2.201	209947.	.977	598249.	.620
STAIRS	404688.	.699	21518.	.126	1785.	.008	427991.	.444
OTHER FLOOR	2537445.	4.381	2077579.	12.161	1366442.	6.357	5981466.	6.198
SUBTOTAL	10106572.	17.449	2770226.	16.215	1710153.	7.956	14586950.	15.116
EXTERIOR STUDS	4654896.	8.037	168132.	.984	71889.	.334	4894916.	5.072
EXTERIOR FURRING	180439.	.312	140704.	.824	49992.	.233	371135.	.385
EXTERIOR SIDING	1904579.	3.288	109824.	.643	0.	.000	2014403.	2.087
SHEATHING	0.	.000	71120.	.416	0.	.000	71120.	.074
CORNICE/MANSARD	860947.	1.486	291663.	1.707	226607.	1.054	1379218.	1.429
OTHER EXT. WALL	881059.	1.521	145021.	.849	161517.	.751	1187597.	1.231
SUBTOTAL	8481920.	14.644	926464.	5.423	510006.	2.373	9918389.	10.278
INTERIOR STUDS	8794417.	15.184	930376.	5.446	823778.	3.832	10548571.	10.931
INTERIOR FIRING	427167.	.738	181434.	1.062	134100.	.624	742701.	.770
PARTITION	34842.	.060	82019.	.480	3571.	.017	120432.	.125
PANELING	242183.	.418	24522.	.144	19783.	.092	286487.	.297
OTHER INT. WALL	721196.	1.245	296637.	1.736	153583.	.714	1171416.	1.214
SUBTOTAL	10219805.	17.645	1514988.	8.868	1134814.	5.279	12869607.	13.336
EXTERIOR DOORS	408069.	.705	416368.	2.437	247204.	1.150	1071641.	1.111
INTERIOR DOORS	2099914.	3.626	3273866.	19.163	2158761.	10.043	7532541.	7.806
WINDOWS	766347.	1.323	403863.	2.364	5213.	.024	1175423.	1.218
MOULDING + TRIM	1325175.	2.288	292907.	1.715	330234.	1.536	1948315.	2.019
SHELVING	63250.	.109	121505.	.711	235184.	1.094	419939.	.435
BASE CABINETS	374569.	.647	352290.	2.062	560162.	2.606	1287021.	1.334
WALL CABINETS	39469.	.068	158071.	.925	612261.	2.848	809802.	.839
STORAGE CABINETS	546164.	.943	799104.	4.678	625730.	2.911	1970999.	2.042
OTHER MILLWORK	433930.	.749	560243.	3.279	374784.	1.744	1368958.	1.419
SUBTOTAL	6056687.	10.457	6378218.	37.334	5149533.	23.956	17584638.	18.222
FACILITATING	2174102.	3.754	3543718.	20.743	11882747.	55.279	17600567.	18.239
ALL ITEMS	57920000.	100.000	17084000.	100.000	21496000.	100.000	96500000.	100.000

TABLE 8.-LUMBER USED IN INDUSTRIAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT
TRUSSES	2143964.	.920	1344795.	.991	0.	.000	3488759.	.928
ROOF BEAMS	78776946.	33.821	18194419.	13.410	0.	.000	96971365.	25.783
RAFTERS/PURLINS	44478007.	19.096	7905513.	5.827	0.	.000	52383520.	13.928
ROOF JOISTS	39919535.	17.138	12224644.	9.010	0.	.000	52144179.	13.864
ROOF DECKING	16994985.	7.296	210353.	.155	0.	.000	17205338.	4.575
BLOCKING	12524135.	5.378	21087998.	15.542	352019.	4.690	33966150.	9.031
OTHER ROOF	5728925.	2.460	5052576.	3.724	12040.	.161	10793561.	2.870
SUBTOTAL	200568497.	86.109	66020296.	48.659	364079.	4.851	266952872.	70.978
FLOOR BEAMS	100824.	.043	79100.	.058	0.	.000	179924.	.048
FLOOR JOISTS	1437412.	.617	3701240.	2.728	0.	.000	5138652.	1.366
SUBFLOORING	279506.	.120	1842771.	1.358	0.	.000	2122277.	.564
FLOOR DECKING	307401.	.132	6291759.	4.637	0.	.000	6599159.	1.755
FINISH FLOORING	22405.	.010	704666.	.519	0.	.000	727071.	.193
STAIRS	148995.	.064	78490.	.058	2807.	.037	230292.	.061
OTHER FLOOR	192238.	.083	802866.	.592	2320040.	30.913	3315143.	.881
SUBTOTAL	2488781.	1.068	13500891.	9.951	2322847.	30.951	18312519.	4.869
EXTERIOR STUDS	1108054.	.476	1735588.	1.279	0.	.000	2843643.	.756
EXTERIOR FIRRING	51756.	.022	118782.	.088	16322.	.217	186860.	.050
EXTERIOR SIDING	0.	.000	46222.	.034	0.	.000	46222.	.012
CORNICE/MANSARD	270768.	.116	923217.	.680	0.	.000	1193985.	.317
OTHER EXT. WALL	907079.	.389	1802915.	1.329	53125.	.708	2763119.	.735
SUBTOTAL	2337658.	1.004	4626724.	3.410	69447.	.925	7033829.	1.870
INTERIOR STUDS	8666485.	3.721	8290986.	6.111	29681.	.395	16987152.	4.517
INTERIOR FIRRING	1494210.	.642	1564480.	1.153	12559.	.167	3071249.	.817
PARTITION	0.	.000	57559.	.042	3805.	.051	61364.	.016
PANELING	112027.	.048	435009.	.321	2246.	.030	549281.	.146
OTHER INT. WALL	534815.	.230	667252.	.492	84688.	1.128	1286755.	.342
SUBTOTAL	10807536.	4.640	11015287.	8.119	132979.	1.772	21955802.	5.838
EXTERIOR DOORS	685826.	.294	1613406.	1.189	6966.	.093	2306198.	.613
INTERIOR DOORS	1680734.	.722	4941818.	3.642	28860.	.385	6651412.	1.768
WINDOWS	761892.	.327	56687.	.042	28590.	.381	867170.	.225
MOULDING + TRIM	1034229.	.444	1045661.	.771	6716.	.089	2086606.	.555
SMELVING	44475.	.019	227883.	.168	72587.	.967	344944.	.092
BASE CABINETS	406432.	.174	463614.	.342	11415.	.152	881462.	.234
WALL CABINETS	83124.	.036	235034.	.173	4075.	.054	322233.	.086
STORAGE CABINETS	179242.	.077	229191.	.169	0.	.000	408433.	.109
OTHER MILLWORK	182491.	.078	1104703.	.814	30244.	.403	1317458.	.350
SUBTOTAL	5058446.	2.172	9917997.	7.310	189473.	2.525	15165916.	4.032
FACILITATING	11663082.	5.007	30598805.	22.552	4426175.	58.976	46688062.	12.413
ALL ITEMS	232924000.	100.000	135680000.	100.000	7505000.	100.000	376109000.	100.000

TABLE 9.-LUMBER USED IN COMMERCIAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT
TRUSSES	3862234.	1.717	0.	.000	0.	.000	3862234.	.860
ROOF BEAMS	36640558.	16.289	2008669.	1.030	506779.	1.726	39156006.	8.716
RAFTERS/PURLINS	22164100.	9.853	3702078.	1.899	0.	.000	25866177.	5.758
ROOF JOISTS	21273921.	9.457	2703546.	1.387	9667.	.033	23987134.	5.339
ROOF DECKING	35600159.	15.826	726582.	.373	595986.	2.030	36922727.	8.219
BLOCKING	3091101.	1.374	21532876.	11.045	690606.	2.352	25314583.	5.635
OTHER ROOF	11072781.	4.922	1117804.	.573	49033.	.167	12239618.	2.724
SUBTOTAL	133704854.	59.439	31791556.	16.307	1852071.	6.308	167348480.	37.250
FLOOR BEAMS	7280543.	3.237	0.	.000	0.	.000	7280543.	1.621
FLOOR JOISTS	9089581.	4.041	2536810.	1.301	8289.	.028	11634660.	2.590
SUBFLOORING	0.	.000	105024.	.054	0.	.000	105024.	.023
FLOOR DECKING	3645343.	1.621	358573.	.184	0.	.000	4003916.	.891
UNDERLAYMENT	0.	.000	0.	.000	36669.	.125	36669.	.008
FINISH FLOORING	1055778.	.469	1084306.	.556	1477.	.005	2141560.	.477
STAIRS	404853.	.180	276007.	.142	3052.	.010	683912.	.152
OTHER FLOOR	992847.	.441	18794794.	9.640	82887.	.282	19870507.	4.423
SUBTOTAL	22468945.	9.989	23155513.	11.877	132393.	.451	45756791.	10.185
EXTERIOR STUDS	7695705.	3.421	1437123.	.737	8200.	.279	9214878.	2.051
EXTERIOR FURRING	214481.	.095	1139885.	.585	148113.	.504	1502478.	.334
EXTERIOR SIDING	2080048.	.925	399148.	.205	6280.	.021	2485477.	.553
CORNICE/MANSARD	3846938.	1.710	1959224.	1.005	53295.	.182	5859458.	1.304
OTHER EXT. WALL	2538356.	1.128	3542418.	1.817	183561.	.625	6264335.	1.394
SUBTOTAL	16375528.	7.280	8477799.	4.349	473300.	1.612	25326626.	5.637
INTERIOR STUDS	21929833.	9.749	24252275.	12.440	1985890.	6.764	48167999.	10.722
INTERIOR FURRING	750267.	.334	2695714.	1.383	471124.	1.605	3917106.	.872
PARTITION	443094.	.197	1696428.	.870	866725.	2.952	3006247.	.669
PANELING	765314.	.340	914833.	.469	225821.	.769	1905969.	.424
OTHER INT. WALL	2985108.	1.327	2866886.	1.471	112940.	.385	5964934.	1.328
SUBTOTAL	26873616.	11.947	32426136.	16.632	3662502.	12.475	62962254.	14.015
EXTERIOR DOORS	834979.	.371	443970.	.228	53059.	.181	1332008.	.296
INTERIOR DOORS	5218867.	2.320	8702284.	4.464	1612163.	5.491	15533314.	3.458
WINDOWS	2003816.	.891	1261328.	.647	0.	.000	3265144.	.727
MOULDING + TRIM	2693646.	1.197	3681790.	1.889	332786.	1.134	6708223.	1.493
SHELVING	804303.	.358	1324172.	.679	33125.	.113	2161610.	.481
BASE CABINETS	473271.	.210	971450.	.498	120481.	.410	1565202.	.348
WALL CABINETS	121040.	.054	189855.	.097	33519.	.114	344414.	.077
STORAGE CABINETS	56530.	.025	36801.	.019	600.	.002	93931.	.021
OTHER MILLWORK	1461961.	.650	1882225.	.965	163194.	.556	3507380.	.781
SUBTOTAL	13668414.	6.076	18493875.	9.486	2348937.	8.001	34511227.	7.682
FACILITATING	11852643.	5.269	80612122.	41.349	20889857.	71.153	113354621.	25.231
ALL ITEMS	224944000.	100.000	194957000.	100.000	29359000.	100.000	449260000.	100.000

TABLE 10.-LUMBER USED IN RELIGIOUS BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT
TRUSSES	8854688.	6.527	0.	.000	0.	.000	8854688.	5.733
ROOF BEAMS	14131096.	10.417	590786.	3.868	0.	.000	14721882.	9.532
ARCHES	8030958.	5.920	38103.	.249	0.	.000	8069060.	5.225
RAFTERS/PURLINS	6145631.	4.530	249990.	1.637	2976.	.085	6398597.	4.143
ROOF JOISTS	7253676.	5.347	759536.	4.973	83478.	7.374	8096649.	5.242
ROOF DECKING	34602614.	25.507	1481553.	9.701	142846.	4.066	36227033.	23.456
BLOCKING	3939972.	2.904	1065380.	6.976	79211.	2.254	5084563.	3.292
OTHER ROOF	6665337.	4.913	1047742.	6.861	22720.	.647	7735798.	5.009
SUBTOTAL	89623972.	66.066	5233089.	34.266	331210.	9.425	95188271.	61.632
FLOOR BEAMS	224989.	.166	9420.	.062	0.	.000	234409.	.152
FLOOR JOISTS	4862307.	3.584	385672.	2.525	26772.	.819	5273750.	3.417
SUBFLOORING	748463.	.552	13399.	.088	251642.	7.161	1013504.	.656
FLOOR DECKING	194285.	.143	0.	.000	0.	.000	194285.	.126
FINISH FLOORING	1073096.	.791	99155.	.649	529893.	15.079	1702144.	1.112
STAIRS	464457.	.342	70326.	.460	3572.	.102	538355.	.349
OTHER FLOOR	599164.	.442	159898.	1.047	37423.	1.065	796484.	.516
SUBTOTAL	8166761.	6.020	737869.	4.832	851301.	24.226	9755931.	6.317
EXTERIOR STUDS	4894782.	3.608	675112.	4.421	0.	.000	5569894.	3.606
EXTERIOR FURRING	222430.	.164	329265.	2.156	0.	.000	551695.	.357
EXTERIOR SIDING	1816835.	1.339	20237.	.133	0.	.000	1837072.	1.189
SHEATHING	65371.	.048	558871.	3.659	0.	.000	624242.	.404
CORNICE/MANSARD	1893565.	1.396	558547.	3.657	10517.	.299	2462628.	1.595
OTHER EXT. WALL	1436559.	1.059	269934.	1.768	4107.	.117	1710601.	1.108
SUBTOTAL	10329542.	7.614	2411966.	15.793	14624.	.416	12756132.	8.259
INTERIOR STUDS	8293398.	6.113	1109411.	7.264	7897.	.225	9410706.	6.093
INTERIOR FURRING	581619.	.429	163893.	1.073	27978.	.796	773490.	.501
PARTITION	276358.	.204	99967.	.655	3948.	.113	380293.	.246
PANELING	426191.	.314	27968.	.183	57841.	1.647	512019.	.332
OTHER INT. WALL	744835.	.549	278299.	1.822	49289.	1.403	1072423.	.694
SUBTOTAL	10327400.	7.609	1679538.	10.997	146993.	4.183	12148931.	7.866
EXTERIOR DOORS	954585.	.704	181450.	1.188	10546.	.300	1146592.	.742
INTERIOR DOORS	3257133.	2.401	1294040.	8.408	202988.	5.777	4744162.	3.072
WINDOWS	1427224.	1.052	540112.	3.537	9921.	.282	1977258.	1.280
MOULDING + TRIM	2386842.	1.759	498485.	3.264	74151.	2.110	2959478.	1.916
SHELVING	131248.	.097	45606.	.299	17699.	.504	194554.	.126
BASE CABINETS	564018.	.416	186794.	1.223	51670.	1.469	802442.	.520
WALL CABINETS	311616.	.230	79616.	.521	31014.	.883	422245.	.273
STORAGE CABINETS	236263.	.174	79665.	.522	21827.	.621	337755.	.219
OTHER MILLWORK	529631.	.390	376641.	2.466	13572.	.386	919845.	.596
SUBTOTAL	9798561.	7.223	3272410.	21.428	433359.	12.332	13504370.	8.744
FACILITATING	7417764.	5.468	1937128.	12.694	1736513.	49.417	11091405.	7.181
ALL ITEMS	135659000.	100.000	15272000.	100.000	3514000.	100.000	154445000.	100.000

TABLE 11.-LUMBER USED IN EDUCATIONAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT
TRUSSES	362293.	.506	0.	.000	0.	.000	362293.	.135
ROOF BEAMS	18347836.	25.616	2232845.	1.428	0.	.000	20580681.	7.660
ARCHES	717199.	1.001	0.	.000	0.	.000	717199.	.267
RAFTERS/PURLINS	4059058.	5.667	3489169.	2.232	15278.	.038	7563505.	2.815
ROOF JOISTS	7229671.	10.094	544726.	.348	78414.	.193	7852811.	2.923
ROOF DECKING	7717474.	10.775	2056799.	1.314	158312.	.389	9932586.	3.697
BLOCKING	2255355.	3.149	17363678.	11.108	1324944.	3.253	20943998.	7.795
OTHER ROOF	1583586.	2.211	2190894.	1.402	165476.	.406	3939950.	1.466
SUBTOTAL	42272473.	59.018	27878111.	17.834	1742440.	4.278	71893023.	26.758
FLOOR BEAMS	204414.	.285	115319.	.074	47462.	.117	367196.	.137
FLOOR JOISTS	3130175.	4.370	2065119.	1.321	262648.	.645	5457942.	2.031
SUBFLOORING	85740.	.120	3712946.	2.375	381542.	.937	4180228.	1.556
FLOOR DECKING	369857.	.516	734320.	.470	30592.	.075	1134769.	.422
UNDERLAYMENT	0.	.000	474047.	.303	60738.	.149	534785.	.199
FINISH FLOORING	2281476.	3.185	33243333.	21.266	2022998.	4.966	37547807.	13.975
STAIRS	26074.	.036	138871.	.089	18971.	.046	183876.	.068
OTHER FLOOR	3121131.	4.357	4653524.	2.977	98767.	2.425	8762292.	3.261
SUBTOTAL	9218867.	12.871	45137478.	28.875	3812549.	9.360	58168894.	21.650
EXTERIOR STUDS	4835617.	6.751	788461.	.504	110702.	.272	5734780.	2.134
EXTERIOR FURRING	353496.	.494	413496.	.265	177743.	.436	944735.	.352
EXTERIOR SIDING	812394.	1.134	1142915.	.731	0.	.000	1955309.	.728
SHEATHING	0.	.000	81060.	.052	0.	.000	81060.	.030
CORNICE/MANSARD	968441.	1.352	3903344.	2.497	72727.	.179	4944512.	1.840
OTHER EXT. WALL	835297.	1.166	1339873.	.857	228781.	.562	2403952.	.895
SUBTOTAL	7805246.	10.897	7669149.	4.906	589953.	1.448	16064348.	5.979
INTERIOR STUDS	4462354.	6.230	4939460.	3.160	1217645.	2.989	10619479.	3.952
INTERIOR FURRING	309416.	.432	1623949.	1.039	270107.	.663	2203473.	.820
PARTITION	53687.	.075	1250769.	.800	121877.	.299	1426333.	.531
PANELING	16807.	.023	1617439.	1.035	509348.	1.250	2143595.	.798
OTHER INT. WALL	1035354.	1.445	2472432.	1.582	308819.	.758	3816605.	1.421
SUBTOTAL	5877619.	8.206	11904048.	7.615	2427817.	5.960	20209484.	7.522
EXTERIOR DOORS	451451.	.630	675051.	.432	158247.	.389	1284770.	.478
INTERIOR DOORS	916938.	1.280	13530033.	8.655	2922947.	7.176	17369939.	6.465
WINDOWS	918207.	1.282	264471.	.169	16286.	.040	1198963.	.446
MOULDING * TRIM	312916.	.437	3003083.	1.921	473399.	1.162	3789398.	1.410
SHELVING	91601.	.128	1559553.	.998	263472.	.647	1914626.	.713
BASE CABINETS	719090.	1.004	4291454.	2.745	1317318.	3.234	6327861.	2.355
WALL CABINETS	86762.	.121	1653834.	1.058	396451.	.973	2137048.	.795
STORAGE CABINETS	242057.	.338	2645512.	1.692	474541.	1.165	3362110.	1.251
OTHER MILLWORK	181088.	.253	5096704.	3.260	948786.	2.329	6226578.	2.317
SUBTOTAL	3920112.	5.473	32719695.	20.931	6971486.	17.115	43611293.	16.232
FACILITATING	2532683.	3.536	31011519.	19.838	25188745.	61.839	58732956.	21.860
ALL ITEMS	71627000.	100.000	156320000.	100.000	40733000.	100.000	268680000.	100.000



TABLE 12.-LUMBER USED IN HOSPITALS BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT
TRUSSES	8141399.	13.560	0.	.000	0.	.000	8141399.	6.895
ROOF BEAMS	1280174.	2.132	58467.	.337	6641.	.016	1345278.	1.139
ARCHES	491464.	.819	0.	.000	0.	.000	491464.	.416
RAFTERS/PURLINS	6488161.	10.806	23490.	.134	18710.	.046	6530361.	5.530
ROOF JOISTS	6598740.	10.990	24099.	.137	439340.	1.085	7062179.	5.981
ROOF DECKING	3258667.	5.427	295831.	1.685	63732.	.156	3617826.	3.064
BLOCKING	1813408.	3.020	1678733.	9.564	1725771.	4.262	5217912.	4.419
OTHER ROOF	1446833.	2.410	167404.	.954	274306.	.677	1688543.	1.599
SUBTOTAL	29518841.	49.164	2248020.	12.808	2528100.	6.244	34294960.	29.043
FLOOR BEAMS	128911.	.215	0.	.000	7514.	.009	132424.	.112
FLOOR JOISTS	507130.	.845	3654.	.021	284741.	.703	795526.	.674
SUBFLOORING	114724.	.191	0.	.000	1767.	.004	116481.	.099
FLOOR DECKING	30716.	.051	0.	.000	0.	.000	30716.	.026
FINISH FLOORING	0.	.000	245337.	1.398	26347.	.065	271724.	.230
STAIRS	60940.	.101	4350.	.025	4573.	.011	69822.	.059
OTHER FLOOR	43176.	.072	113969.	.649	189910.	.469	347054.	.294
SUBTOTAL	885597.	1.475	367310.	2.093	510861.	1.262	1763748.	1.494
EXTERIOR STUDS	4637326.	7.723	0.	.000	40055.	.009	4677381.	3.961
EXTERIOR FURRING	290067.	.483	131316.	.748	657780.	1.625	1079153.	.914
EXTERIOR SIDING	394355.	.657	242379.	1.381	42143.	.104	678898.	.575
SHEATHING	0.	.000	80735.	.460	0.	.000	80735.	.068
CORNICE/MANSARD	605966.	1.009	1484708.	8.459	376667.	.970	2467331.	2.089
OTHER EXT. WALL	430056.	.716	240987.	1.373	513494.	1.268	1184537.	1.003
SUBTOTAL	6357770.	10.589	2180126.	12.421	1630149.	4.026	10168045.	8.611
INTERIOR STUDS	12571901.	20.939	371834.	2.118	1166247.	2.880	14110001.	11.949
INTERIOR FURRING	150721.	.251	162688.	.927	277995.	.687	591404.	.501
PARTITION	86856.	.143	17191.	.098	64650.	.160	167897.	.142
PANELING	146255.	.244	21402.	.122	9627.	.024	177284.	.150
OTHER INT. WALL	67502.	.112	224198.	1.300	746584.	1.844	1042286.	.883
SUBTOTAL	13022434.	21.689	801313.	4.565	2269125.	5.694	16088872.	13.625
EXTERIOR DOORS	210303.	.350	361655.	2.060	49775.	.123	621693.	.526
INTERIOR DOORS	3562965.	5.934	4231163.	24.106	4755243.	11.744	12549370.	10.627
WINDOWS	297543.	.496	120320.	.686	21343.	.053	439225.	.372
MOULDING & TRIM	585291.	.975	290455.	1.655	448317.	1.107	1324063.	1.121
SHELVING	69994.	.117	111568.	.636	117178.	.289	298740.	.253
BASE CABINETS	717804.	1.194	674764.	3.844	1165072.	2.877	2557640.	2.166
WALL CABINETS	306227.	.510	200742.	1.144	407278.	1.006	914247.	.774
STORAGE CABINETS	289105.	.482	416044.	2.370	662004.	1.635	1367253.	1.158
OTHER MILLWORK	362899.	.604	221743.	1.263	639122.	1.578	1223764.	1.036
SUBTOTAL	6402130.	10.663	6628473.	37.765	8265301.	20.413	21295994.	18.035
FACILITATING	3855228.	6.421	5326759.	30.348	25290305.	62.461	34472381.	29.193
ALL ITEMS	60042000.	100.000	17552000.	100.000	40490000.	100.000	118084000.	100.000

TABLE 13. LUMBER USED IN OTHER BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT
TRUSSES	2377946.	2.929	211525.	.302	0.	.000	2589470.	1.430
ROOF BEAMS	27365185.	33.704	23399.	.033	1747.	.006	27390331.	15.125
ARCHES	384729.	.474	0.	.000	0.	.000	384729.	.212
RAFTERS/PURLINS	6627356.	8.163	505517.	.723	23832.	.080	7156704.	3.952
ROOF JOISTS	1298578.	1.599	1096985.	1.568	38548.	.129	2434131.	1.344
ROOF DECKING	11767787.	14.495	3141150.	4.491	48200.	.161	14957218.	8.259
BLOCKING	1761434.	2.170	4726757.	6.758	1117813.	3.731	7606000.	4.200
OTHER ROOF	5522229.	6.802	3310329.	4.741	69838.	.233	8908397.	4.919
SUBTOTAL	57105244.	70.338	13021657.	18.617	1300079.	4.339	71426980.	39.442
FLOOR BEAMS	360719.	.444	473174.	.676	2248.	.008	836141.	.462
FLOOR JOISTS	2428376.	2.991	1223442.	1.749	196244.	.655	3848062.	2.125
SUBFLOORING	187780.	.231	163791.	.234	346880.	1.158	698451.	.386
FLOOR DECKING	793373.	.977	12479.	.018	188786.	.630	994639.	.549
UNDERLAYMENT	167882.	.207	0.	.000	0.	.000	167882.	.093
FINISH FLOORING	2223770.	2.739	5682045.	8.123	1064509.	3.553	8970325.	4.953
STAIRS	224504.	.277	60837.	.087	41125.	.137	326465.	.180
OTHER FLOOR	151670.	.187	5602022.	8.009	396535.	1.323	6150226.	3.396
SUBTOTAL	6538074.	8.053	13217790.	18.897	2236326.	7.464	21992191.	12.144
EXTERIOR STUDS	2209828.	2.722	304496.	.435	9982.	.033	2524306.	1.394
EXTERIOR FURRING	214578.	.264	292848.	.419	23344.	.078	530770.	.293
EXTERIOR SIDING	833075.	1.026	109194.	.156	13528.	.045	955797.	.528
SHEATHING	49627.	.061	193950.	.277	0.	.000	243577.	.135
CORNICE/MANSARD	1355767.	1.671	2851838.	4.077	70789.	.236	4778395.	2.363
OTHER EXT. WALL	534887.	.655	1293170.	1.849	110777.	.370	1938833.	1.071
SUBTOTAL	5197762.	6.402	5045496.	7.213	228420.	.762	10471678.	5.782
INTERIOR STUDS	4301590.	5.298	2061793.	2.948	305151.	1.018	6668534.	3.682
INTERIOR FURRING	29540.	.036	907819.	1.298	344143.	1.149	1281502.	.708
PARTITION	640900.	.789	988883.	1.414	562138.	1.876	2191920.	1.210
PANELING	253713.	.313	562402.	.804	98462.	.329	914577.	.505
OTHER INT. WALL	653661.	.805	1694225.	2.422	124061.	.414	2471946.	1.365
SUBTOTAL	5879403.	7.242	6215120.	8.886	1433955.	4.786	13528479.	7.470
EXTERIOR DOORS	366012.	.451	1166453.	1.668	28181.	.094	1560646.	.862
INTERIOR DOORS	887476.	1.093	5712464.	8.167	722627.	2.412	7322567.	4.043
WINDOWS	246340.	.303	184174.	.263	17087.	.057	447601.	.247
MOULDING + TRIM	589996.	.727	1248869.	1.785	328277.	1.096	2167141.	1.197
SHELVING	41451.	.051	389875.	.557	52083.	.174	483409.	.267
BASE CABINETS	235705.	.290	1073378.	1.535	178579.	.596	1487662.	.821
WALL CABINETS	51896.	.064	388523.	.555	93381.	.312	533800.	.295
STORAGE CABINETS	88667.	.109	311827.	.446	54447.	.182	454942.	.251
OTHER MILLWORK	643168.	.792	773562.	1.106	803065.	2.680	2219795.	1.226
SUBTOTAL	3150712.	3.881	11249125.	16.083	2277727.	7.602	16677563.	9.209
FACILITATING	3315805.	4.084	21196812.	30.305	22485492.	75.047	46998109.	25.952
ALL ITEMS	81187000.	100.000	69946000.	100.000	29962000.	100.000	181095000.	100.000

Table 14.--Glued-laminated lumber used per 100 square feet of floor area and per \$1,000 of construction value, by building type and structural class--United States, 1969

(Board feet)

Building type	Structural class							
	Wood		Steel/masonry		Concrete		All classes	
	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value
Nonhousekeeping	14.62	7.90	.23	.10	.27	.10	3.63	1.56
Industrial	112.07	85.13	.07	.06	0	0	14.58	10.59
Commercial	57.76	37.29	.02	.01	.45	.20	8.00	4.22
Religious	78.20	38.70	1.03	.38	0	0	49.71	22.14
Educational	139.11	54.49	.31	.12	.04	.01	8.17	2.93
Hospital	8.71	3.75	0	0	0	0	1.42	.40
Other	148.38	80.55	.47	.19	0	0	20.15	8.10
All buildings	84.20	49.89	.14	.07	.14	.05	11.93	5.87

Note: Zeros indicate no data or negligible amounts.

Table 15.--Glued-laminated lumber used in construction, by building type and structural class--United States, 1969

(Thousand board feet)

Building type	Structural class			
	Wood	Steel/ masonry	Concrete	All classes
Nonhousekeeping	2,032	52	60	2,144
Industrial	76,900	311	0	77,211
Commercial	39,355	72	215	39,642
Religious	21,729	142	0	21,871
Educational	18,786	587	17	19,390
Hospital	1,181	0	0	1,181
Other	30,181	450	0	30,631
All buildings	190,164	1,614	292	192,070

Note: Data may not add to totals because of rounding. Zeros indicate no data or negligible amounts.

TABLE 16 .-GLUED-LAMINATED LUMBER USED IN ALL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT
TRUSSES	810092.	.426	0.	.000	0.	.000	810092.	.422
ROOF BEAMS	143060174.	75.230	983690.	60.947	270361.	92.589	144314225.	75.136
ARCHES	8534626.	4.488	9135.	.566	0.	.000	8543761.	4.448
RAFTERS/PURLINS	24247919.	12.751	0.	.000	0.	.000	24247919.	12.625
ROOF DECKING	4084791.	2.148	0.	.000	0.	.000	4084791.	2.127
OTHER ROOF	325367.	.171	75748.	4.693	0.	.000	401115.	.209
SUBTOTAL	181062968.	95.214	1068573.	66.207	270361.	92.589	102401903.	94.966
FLOOR BEAMS	6688394.	3.517	444143.	27.518	0.	.000	7132537.	3.714
FLOOR DECKING	0.	.000	77038.	4.773	0.	.000	77038.	.040
STAIRS	0.	.000	2538.	.157	0.	.000	2538.	.001
SUBTOTAL	6688394.	3.517	523719.	32.449	0.	.000	7212113.	3.755
CORNICE/MANSARD	293126.	.154	0.	.000	0.	.000	293126.	.153
OTHER EXT. WALL	230803.	.121	9670.	.599	0.	.000	240473.	.125
SUBTOTAL	523929.	.276	9670.	.599	0.	.000	533599.	.278
OTHER INT. WALL	1756398.	.924	2321.	.144	324.	.111	1759043.	.916
MOULDING + TRIM	0.	.000	0.	.000	14733.	5.045	14733.	.008
OTHER MILLWORK	132311.	.070	9717.	.602	6542.	2.254	148611.	.077
SUBTOTAL	132311.	.070	9717.	.602	21315.	7.300	163343.	.085
ALL ITEMS	190164000.	100.000	1614000.	100.000	292000.	100.000	192070000.	100.000

TABLE 17.-GLUED-LAMINATED LUMBER USED IN NONHOUSEKEEPING BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT
ROOF BEAMS	1151150.	56.651	52000.	100.000	55361.	92.269	1258511.	58.699
RAFTERS/PURLINS	456541.	22.468	0.	.000	0.	.000	456541.	21.294
ROOF DECKING	190132.	9.357	0.	.000	0.	.000	190132.	8.868
SUBTOTAL	1797822.	88.475	52000.	100.000	55361.	92.269	1905183.	88.861
FLOOR BEAMS	101867.	5.013	0.	.000	0.	.000	101867.	4.751
OTHER MILLWORK	132311.	6.511	0.	.000	4679.	7.731	136950.	6.388
ALL ITEMS	2032000.	100.000	52000.	100.000	60000.	100.000	2144000.	100.000

TABLE 18.-GLUED-LAMINATED LUMBER USED IN INDUSTRIAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT
TRUSSES	810092.	1.053	0.	.000	0.	.000	810092.	1.049
ROOF BEAMS	52589007.	68.386	311000.	100.000	0.	.000	52900007.	68.514
RAFTERS/PURLINS	23500901.	30.560	0.	.000	0.	.000	23500901.	30.437
SUBTOTAL	76900000.	100.000	311000.	100.000	0.	.000	77211000.	100.000
ALL ITEMS	76900000.	100.000	311000.	100.000	0.	.000	77211000.	100.000

TABLE 19.-GLUED-LAMINATED LUMBER USED IN COMMERCIAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEFL/M&SONRY		CONCRETF		ALL CLASSES	
	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT
ROOF BEAMS	30306343.	77.008	72000.	100.000	215000.	100.000	30593343.	77.174
ROOF DECKING	1413118.	3.591	0.	.000	0.	.000	1413118.	3.565
OTHER ROOF	319146.	.811	0.	.000	0.	.000	319146.	.805
SUBTOTAL	32038606.	81.409	72000.	100.000	215000.	100.000	32325606.	81.544
FLOOR BEAMS	6022817.	15.304	0.	.000	0.	.000	6022817.	15.193
CORNICE/MANSARD	268095.	.681	0.	.000	0.	.000	268095.	.676
OTHER EXT. WALL	131339.	.334	0.	.000	0.	.000	131339.	.331
SUBTOTAL	399434.	1.015	0.	.000	0.	.000	399434.	1.008
OTHER INT. WALL	894143.	2.272	0.	.000	0.	.000	894143.	2.256
ALL ITEMS	39355000.	100.000	72000.	100.000	215000.	100.000	39642000.	100.000

TABLE 20.-GLUED-LAMINATED LUMBER USED IN RELIGIOUS BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEFL/MASONRY		CONCRETE		ALL CLASSES	
	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT
ROOF BEAMS	11962635.	55.054	132865.	99.567	0.	.000	12095500.	55.304
ARCHES	6991902.	32.178	9135.	6.403	0.	.000	7001038.	32.011
ROOF DECKING	2481542.	11.420	0.	.000	0.	.000	2481542.	11.346
OTHER ROOF	6221.	.029	0.	.000	0.	.000	6221.	.028
SUBTOTAL	21442300.	98.681	142000.	100.000	0.	.000	21584300.	98.689
FLOOR BEAMS	200804.	.924	0.	.000	0.	.000	200804.	.918
OTHER EXT. WALL	82852.	.381	0.	.000	0.	.000	82852.	.379
OTHER INT. WALL	3044.	.014	0.	.000	0.	.000	3044.	.014
ALL ITEMS	21729000.	100.000	142000.	100.000	0.	.000	21871000.	100.000

TABLE 21.-GLUED-LAMINATED LUMBER USED IN EDUCATIONAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT
ROOF BEAMS	1697990A.	90.386	415825.	70.839	0.	.000	17395733.	89.715
ARCHES	694768.	3.698	0.	.000	0.	.000	694768.	3.583
RAFTERS/PURLINS	290478.	1.546	0.	.000	0.	.000	290478.	1.498
OTHER ROOF	0.	.000	75748.	12.904	0.	.000	75748.	.391
SUBTOTAL	17965154.	95.631	491573.	83.743	0.	.000	18456727.	95.187
FLOOR BEAMS	180840.	.963	0.	.000	0.	.000	180840.	.933
FLOOR DECKING	0.	.000	77038.	13.124	0.	.000	77038.	.397
STAIRS	0.	.000	2538.	.432	0.	.000	2538.	.013
SUBTOTAL	180840.	.963	79576.	13.556	0.	.000	260416.	1.343
CORNICE/MANSARD	25031.	.133	0.	.000	0.	.000	25031.	.129
OTHER EXT. WALL	16612.	.088	9670.	1.647	0.	.000	26282.	.136
SUBTOTAL	41643.	.222	9670.	1.647	0.	.000	51313.	.265
OTHER INT. WALL	598363.	3.185	2321.	.395	324.	1.905	601008.	3.100
MOULDING + TRIM	0.	.000	0.	.000	14733.	86.662	14733.	.076
OTHER MILLWORK	0.	.000	3860.	.658	1943.	11.432	5803.	.030
SUBTOTAL	0.	.000	3860.	.658	16676.	98.095	20536.	.106
ALL ITEMS	18786000.	100.000	587000.	100.000	17000.	100.000	19390000.	100.000

TABLE 22.-GLUED-LAMINATED LUMBER USED IN HOSPITALS BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT
ROOF BEAMS	760353.	64.382	0.	.000	0.	.000	760353.	64.382
ARCHES	401885.	34.029	0.	.000	0.	.000	401885.	34.029
SUBTOTAL	1162237.	98.411	0.	.000	0.	.000	1162237.	98.411
FLOOR BEAMS	18763.	1.589	0.	.000	0.	.000	18763.	1.589
ALL ITEMS	1181000.	100.000	0.	.000	0.	.000	1181000.	100.000



TABLE 23 .-GLUED-LAMINATED LUMBER USED IN OTHER BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT	BOARD FEET	PERCENT
ROOF BEAMS	29310779.	97.117	0.	.000	0.	.000	29310779.	95.690
ARCHES	446071.	1.478	0.	.000	0.	.000	446071.	1.456
SUBTOTAL	29756849.	98.595	0.	.000	0.	.000	29756849.	97.146
FLOOR BEAMS	163303.	.541	444143.	98.698	0.	.000	607447.	1.983
OTHER INT. WALL	260847.	.864	0.	.000	0.	.000	260847.	.852
OTHER MILLWORK	0.	.000	5857.	1.302	0.	.000	5857.	.019
ALL ITEMS	30181000.	100.000	450000.	100.000	0.	.000	30631000.	100.000

Table 24.--Plywood used per 100 square feet of floor area and per \$1,000 of construction value, by building type and structural class--United States, 1969

(Square feet, 3/8-inch basis)

Building type	Structural class							
	Wood		Steel/masonry		Concrete		All classes	
	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value
	:	:	:	:	:	:	:	:
Nonhousekeeping	232.02	125.37	75.74	33.55	146.98	53.94	138.77	59.46
Industrial	128.69	97.77	15.42	11.31	47.48	23.91	31.13	22.60
Commercial	168.20	108.59	31.30	16.39	72.78	31.38	54.11	28.49
Religious	162.26	80.30	65.34	23.91	116.75	56.78	129.40	57.63
Educational	271.76	106.46	64.17	23.72	86.99	27.07	79.78	28.58
Hospital	239.52	103.19	67.01	20.91	140.63	32.62	129.92	36.27
Other	113.45	61.59	47.74	19.14	80.79	28.60	64.35	25.89
All buildings	164.94	97.73	34.08	17.68	96.08	32.16	60.52	29.78

Table 25.--Plywood used in construction, by building type and structural class--United States, 1969

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

Building type	Structural class			
	Wood	Steel/ masonry	Concrete	All classes
Nonhousekeeping	32,246	17,716	31,913	81,875
Industrial	88,307	68,506	8,176	164,989
Commercial	114,611	118,834	34,392	267,837
Religious	45,086	9,000	2,849	56,935
Educational	36,701	120,104	40,303	197,108
Hospital	32,478	20,292	55,065	107,835
Other	23,075	45,684	29,058	97,818
All buildings	372,504	400,136	201,757	974,397

Note: Data may not add to totals because of rounding.

TABLE 26.-PLYWOOD USED IN ALL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT
TRUSSES	270547.	.073	0.	.000	0.	.000	270547.	.028
ROOF DECKING	196665439.	52.796	38401236.	9.597	1481774.	.734	236548449.	24.276
BLOCKING	4499.	.001	451430.	.113	56547.	.028	512471.	.053
OTHER ROOF	2269263.	.609	4798332.	1.199	247611.	.123	7315205.	.751
SUBTOTAL	199209749.	53.479	43650997.	10.909	1785927.	.885	244646673.	25.107
SUBFLOORING	20766502.	5.575	12708741.	3.176	1265754.	.627	34740997.	3.565
FLOOR DECKING	8854881.	2.377	1337027.	.334	82843.	.041	10274751.	1.054
UNDERLAYMENT	6256838.	1.680	2574069.	.643	144542.	.072	8975448.	.921
FINISH FLOORING	81714.	.022	806626.	.202	4128095.	2.046	5016434.	.515
STAIRS	180934.	.049	6102.	.002	4186.	.002	191221.	.020
OTHER FLOOR	308460.	.083	191556.	.048	83640.	.041	583677.	.060
SUBTOTAL	36449328.	9.785	17624120.	4.405	5709080.	2.830	59782528.	6.135
EXTERIOR FURRING	0.	.000	12895.	.003	675.	.000	13571.	.001
EXTERIOR SIDING	5682891.	1.524	1005264.	.251	80468.	.040	6768623.	.695
SHEATHING	15638476.	4.198	4291485.	1.073	730725.	.342	20680697.	2.120
CORNICE/MANSARD	6974161.	1.872	9784237.	2.445	458756.	.227	17216653.	1.767
OTHER EXT. WALL	1090329.	.293	1455416.	.364	166697.	.083	2712442.	.278
SUBTOTAL	29385856.	7.889	16549298.	4.136	1436822.	.712	47371975.	4.862
INTERIOR FURRING	0.	.000	48786.	.012	315.	.000	49100.	.005
PARTITION	2273423.	.610	1125314.	.281	690557.	.342	4089295.	.420
PANELING	12154490.	3.263	26593439.	6.646	4247177.	2.105	42995101.	4.412
OTHER INT. WALL	3746546.	1.006	1298631.	.325	766641.	.380	5811817.	.596
SUBTOTAL	18174460.	4.879	29066169.	7.264	5704884.	2.828	52945313.	5.434
EXTERIOR DOORS	1106099.	.297	1225857.	.306	156640.	.078	2488596.	.255
INTERIOR DOORS	5490378.	1.474	15394446.	3.847	5379079.	2.666	26263903.	2.695
WINDOWS	0.	.000	2791.	.001	6222.	.003	9014.	.001
MOULDING + TRIM	1269309.	.341	940656.	.235	283784.	.141	2493752.	.256
SHELVING	5725567.	1.537	25324200.	6.329	9512331.	4.715	40562099.	4.163
BASE CABINETS	5447618.	1.462	11031750.	2.758	5003607.	2.480	21484978.	2.205
WALL CABINETS	810171.	.217	2125595.	.531	1102481.	.546	4038247.	.414
STORAGE CABINETS	14238841.	3.822	35124450.	8.778	15608372.	7.736	64971663.	6.668
OTHER MILLWORK	2883477.	.774	7392107.	1.847	4647675.	2.304	14923259.	1.532
SUBTOTAL	36971460.	9.925	98563854.	24.633	41700194.	20.669	177235508.	18.189
FACILITATING	52313147.	14.044	194681563.	48.654	145420294.	72.077	392415003.	40.273
ALL ITEMS	372504000.	100.000	400136000.	100.000	201757000.	100.000	974397000.	100.000

TABLE 27.-PLYWOOD USED IN NONHOUSEKEEPING BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT
ROOF DECKING	8977390.	27.840	469924.	2.653	805747.	2.525	10253061.	12.523
BLOCKING	0.	.000	0.	.000	501.	.002	591.	.001
OTHER ROOF	75520.	.234	0.	.000	36744.	.115	112284.	.137
SUBTOTAL	9052910.	28.075	469924.	2.653	843142.	2.642	10365936.	12.661
SUBFLOORING	6050695.	18.764	176003.	.993	130372.	.409	6357070.	7.764
FLOOR DECKING	320607.	.994	0.	.000	2544.	.008	323191.	.395
UNDERLAYMENT	2132410.	6.613	0.	.000	0.	.000	2132410.	2.604
FINISH FLOORING	0.	.000	18816.	.106	4097208.	12.839	4116024.	5.027
OTHER FLOOR	19614.	.061	0.	.000	0.	.000	19614.	.024
SUBTOTAL	8523326.	26.432	194819.	1.100	4230164.	13.255	12948310.	15.815
EXTERIOR SIDING	359369.	1.114	52106.	.294	62647.	.196	474122.	.579
SHEATHING	2147056.	6.658	160660.	.907	14322.	.045	2322038.	2.836
CORNICE/MANSARD	66502.	.206	380722.	2.149	886.	.003	446109.	.547
SUBTOTAL	2572927.	7.979	593488.	3.350	77854.	.244	3244270.	3.962
PARTITION	48572.	.213	1158.	.007	0.	.000	69730.	.085
PANELING	1927975.	5.979	1117516.	6.308	787560.	2.468	3833040.	4.682
OTHER INT. WALL	285156.	.884	52207.	.295	1772.	.006	339135.	.414
SUBTOTAL	2281703.	7.076	1170881.	6.609	789322.	2.473	4241906.	5.181
EXTERIOR DOORS	53318.	.165	140411.	.793	54393.	.170	248123.	.303
INTERIOR DOORS	587378.	1.822	1550864.	8.754	1135052.	3.557	3273294.	3.998
WINDOWS	0.	.000	261.	.001	0.	.000	261.	.000
MOULDING + TRIM	4891.	.015	5645.	.032	12520.	.039	23056.	.028
SHELVING	1015345.	3.149	1605793.	9.064	1641024.	5.142	4262162.	5.206
BASE CABINETS	456522.	1.416	805169.	4.545	815411.	2.555	2077101.	2.537
WALL CABINETS	33691.	.104	194211.	1.096	375002.	1.175	602903.	.736
STORAGE CABINETS	4408278.	13.671	4376054.	24.701	4747107.	14.875	13531439.	16.527
OTHER MILLWORK	1030457.	3.196	972241.	5.488	1632431.	5.115	3635129.	4.440
SUBTOTAL	7589879.	23.537	9650649.	54.474	10412940.	32.629	27653469.	33.775
FACILITATING	2225254.	6.901	5636239.	31.814	15559617.	48.756	23421110.	28.606
ALL ITEMS	12246000.	100.000	17716000.	100.000	31913000.	100.000	81875000.	100.000

TABLE 28.-PLYWOOD USED IN INDUSTRIAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT
ROOF DECKING	69784941.	79.025	20995301.	30.647	0.	.000	90780242.	55.022
BLOCKING	0.	.000	102180.	.149	0.	.000	102180.	.062
OTHER ROOF	59753.	.068	435530.	.636	0.	.000	495282.	.300
SUBTOTAL	69844694.	79.093	21533011.	31.432	0.	.000	91377705.	56.384
SUBFLOORING	87239.	.099	2554287.	3.729	0.	.000	2641526.	1.601
FLOOR DECKING	388293.	.440	7691.	.011	0.	.000	395984.	.240
UNDERLAYMENT	132452.	.150	714163.	1.042	0.	.000	846615.	.513
FINISH FLOORING	0.	.000	0.	.000	19342.	.237	19342.	.012
OTHER FLOOR	0.	.000	76910.	.112	0.	.000	76910.	.047
SUBTOTAL	607984.	.698	3353051.	4.895	19342.	.237	3980378.	2.413
EXTERIOR SIDING	239011.	.271	170300.	.249	0.	.000	409311.	.248
SHEATHING	255443.	.289	628024.	.917	0.	.000	883467.	.535
CORNICE/MANSARD	0.	.000	1544515.	2.255	0.	.000	1544515.	.936
OTHER EXT. WALL	505707.	.573	96137.	.140	0.	.000	601845.	.365
SUBTOTAL	1000161.	1.133	2438977.	3.560	0.	.000	3439139.	2.084
PARTITION	1905117.	2.157	57602.	.084	0.	.000	1962799.	1.190
PANELING	440577.	.499	3188464.	4.654	90649.	1.109	3719711.	2.255
OTHER INT. WALL	619437.	.701	31863.	.047	415342.	5.080	1066642.	.646
SUBTOTAL	2965131.	3.358	3278009.	4.785	506012.	6.189	6749152.	4.091
EXTERIOR DOORS	149979.	.170	161621.	.236	5769.	.071	317369.	.192
INTERIOR DOORS	539567.	.611	1097449.	1.602	37869.	.463	1674886.	1.015
MOULDING + TRIM	1071566.	1.213	0.	.000	0.	.000	1071566.	.649
SHELVING	709365.	.803	801621.	1.170	333054.	4.074	1844040.	1.118
BASE CABINETS	318881.	.361	423279.	.618	45349.	.555	787528.	.477
WALL CABINETS	44018.	.050	100972.	.147	14014.	.171	159004.	.096
STORAGE CABINETS	1752747.	1.985	847657.	1.237	0.	.000	2600404.	1.576
OTHER MILLWORK	135838.	.154	490410.	.716	55311.	.677	681559.	.413
SUBTOTAL	4721961.	5.147	3923009.	5.727	491387.	6.010	9136357.	5.538
FACILITATING	9167068.	10.381	33979942.	49.601	7159240.	87.564	50306270.	30.491
ALL ITEMS	88307000.	100.000	68506000.	100.000	8174000.	100.000	164989000.	100.000

TABLE 29.-PLYWOOD USED IN COMMERCIAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT
ROOF DECKING	56778336.	49.540	9446524.	7.949	9115.	.027	66233974.	24.729
BLOCKING	0.	.000	105507.	.089	22507.	.065	128014.	.048
OTHER ROOF	1081484.	.944	2208646.	1.859	0.	.000	3290130.	1.228
SUBTOTAL	57859820.	50.484	11760677.	9.897	31622.	.092	69652118.	26.005
SUBFLOORING	6638791.	5.792	2289107.	1.926	60748.	.177	8988665.	3.356
FLOOR DECKING	5380185.	4.694	213972.	.180	0.	.000	5594157.	2.089
UNDERLAYMENT	1312916.	1.146	96140.	.081	5964.	.017	1415020.	.528
FINISH FLOORING	0.	.000	631070.	.531	0.	.000	631070.	.236
STAIRS	132515.	.116	0.	.000	0.	.000	132515.	.049
OTHER FLOOR	50396.	.044	5423.	.005	40849.	.119	96669.	.036
SUBTOTAL	13514803.	11.792	3235712.	2.723	107591.	.313	16858096.	6.294
EXTERIOR FURRING	0.	.000	0.	.000	675.	.002	675.	.000
EXTERIOR SIDING	3401432.	2.968	98605.	.083	17105.	.050	3517142.	1.313
SHEATHING	2745055.	2.395	931814.	.784	549159.	1.597	4226029.	1.578
CORNICE/MANSARD	1120138.	.977	1203766.	1.013	3714.	.011	2327617.	.869
OTHER EXT. WALL	27318.	.024	826307.	.695	111374.	.324	964999.	.360
SUBTOTAL	7293944.	6.364	3060491.	2.575	682027.	1.983	11036462.	4.121
INTERIOR FURRING	0.	.000	25144.	.021	0.	.000	25144.	.009
PARTITION	4893.	.004	294375.	.248	15417.	.045	314645.	.117
PANELING	6520465.	5.689	11859873.	9.980	956989.	2.783	19337327.	7.220
OTHER INT. WALL	2041137.	1.781	290292.	.244	9633.	.028	2341061.	.874
SUBTOTAL	8566494.	7.476	12469644.	10.493	982039.	2.855	22018177.	8.221
EXTERIOR DOORS	239587.	.209	142089.	.120	6639.	.019	388316.	.145
INTERIOR DOORS	1192960.	1.041	3479068.	2.928	719005.	2.091	5391033.	2.013
MOULDING - TRIM	72088.	.063	200660.	.169	59192.	.172	331941.	.124
SHELVING	1443800.	1.260	6579100.	5.536	205766.	.598	8228667.	3.072
BASE CABINETS	896697.	.782	1379085.	1.161	175033.	.509	2450816.	.915
WALL CABINETS	66624.	.058	124932.	.105	25984.	.076	217540.	.081
STORAGE CABINETS	633788.	.553	287926.	.242	7821.	.023	929535.	.347
OTHER MILLWORK	396729.	.346	905388.	.762	162711.	.473	1464828.	.547
SUBTOTAL	4942274.	4.312	13098249.	11.022	1362152.	3.961	19402675.	7.244
FACILITATING	22433665.	19.574	75209227.	63.289	31226580.	90.796	128869471.	48.115
ALL ITEMS	114611000.	100.000	114834000.	100.000	34392000.	100.000	267837000.	100.000

TABLE 30.-PLYWOOD USED IN RELIGIOUS BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT
TRUSSES	270547.	.600	0.	.000	0.	.000	270547.	.475
ROOF DECKING	18456681.	40.937	1506978.	16.744	65572.	2.302	20029231.	35.179
BLOCKING	4499.	.010	1302.	.014	742.	.027	6563.	.012
OTHER ROOF	314121.	.697	310520.	3.450	0.	.000	624642.	1.097
SUBTOTAL	17045849.	42.243	1818800.	20.209	66375.	2.328	20930984.	36.763
SUBFLOORING	2986708.	6.624	373279.	4.148	0.	.000	3359986.	5.901
FLOOR DECKING	1157500.	2.567	75840.	.843	5317.	.187	1238677.	2.176
UNDERLAYMENT	1132137.	2.511	368462.	4.094	0.	.000	1500600.	2.636
FINISH FLOORING	2678.	.006	0.	.000	6405.	.225	9083.	.016
STAIRS	47939.	.106	6102.	.068	0.	.000	54041.	.095
OTHER FLOOR	129087.	.286	22780.	.253	0.	.000	151867.	.267
SUBTOTAL	5456049.	12.101	846463.	9.405	11742.	.412	6314254.	11.090
EXTERIOR SIDING	530329.	1.176	49465.	.550	0.	.000	579793.	1.018
SHEATHING	2535278.	5.623	237332.	2.637	0.	.000	2772610.	4.870
CORNICE/MANSARD	1271027.	2.819	405317.	4.504	0.	.000	1676343.	2.944
OTHER EXT. WALL	339135.	.752	27661.	.307	1220.	.043	368016.	.646
SUBTOTAL	4675768.	10.371	719775.	7.997	1220.	.043	5396763.	9.479
PARTITION	209994.	.466	49930.	.550	6100.	.214	265624.	.467
PANELING	1733652.	3.845	681700.	7.574	100387.	3.524	2515738.	4.419
OTHER INT. WALL	69257.	.154	2929.	.033	0.	.000	72186.	.127
SUBTOTAL	2012903.	4.465	734159.	8.157	106487.	3.738	2853548.	5.012
EXTERIOR DOORS	279626.	.620	48618.	.540	2272.	.080	330517.	.581
INTERIOR DOORS	1141698.	2.532	457580.	5.084	64886.	2.278	1664165.	2.923
MOULDING • TRIM	59616.	.132	18159.	.202	1372.	.048	79147.	.139
SHELVING	819596.	1.818	305151.	3.391	436621.	15.325	1561368.	2.742
BASE CABINETS	852002.	1.890	264570.	2.940	44071.	1.547	1160643.	2.039
WALL CABINETS	257773.	.572	61831.	.687	12718.	.446	332321.	.584
STORAGE CABINETS	1819835.	4.036	829638.	9.218	181805.	6.385	2831368.	4.973
OTHER MILLWORK	314630.	.698	147759.	1.642	32024.	1.124	494413.	.868
SUBTOTAL	5544776.	12.298	2133307.	23.703	775859.	27.233	8453942.	14.848
FACILITATING	8350655.	18.522	2747497.	30.528	1887307.	66.246	12985510.	22.808
ALL ITEMS	45086000.	100.000	9000000.	100.000	2849000.	100.000	56935000.	100.000



TABLE 31--PLYWOOD USED IN EDUCATIONAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT
ROOF DECKING	1402074.8	38.203	3786697.	3.151	98680.	.245	17906124.	9.084
BLOCKING	0.	.000	293794.	.170	699.	.002	204493.	.104
OTHER ROOF	250871.	.664	1445832.	1.204	111300.	.276	1808803.	.917
SUBTOTAL	14271619.	38.886	5436323.	4.526	210679.	.523	19918621.	10.105
SUBFLOORING	2992629.	8.154	6632391.	5.522	587965.	1.459	10212985.	5.181
FLOOR DECKING	148926.	.406	886197.	.738	21881.	.054	1057005.	.536
UNDERLAYMENT	1207738.	3.291	1198742.	.998	77775.	.193	2486256.	1.260
FINISH FLOORING	31522.	.086	2866.	.002	3584.	.009	37972.	.019
STAIRS	0.	.000	0.	.000	3271.	.008	3271.	.002
OTHER FLOOR	95375.	.260	28656.	.024	21128.	.052	145160.	.074
SUBTOTAL	4476190.	12.194	8748852.	7.284	715605.	1.776	13940647.	7.073
EXTERIOR FURRING	0.	.000	12895.	.011	0.	.000	12895.	.007
EXTERIOR SIDING	613229.	1.671	79760.	.066	717.	.002	693706.	.352
SHEATHING	6275224.	17.098	1947485.	1.621	122315.	.304	8345044.	4.234
CORNICE/MANSARD	2589257.	7.055	3462092.	2.883	38845.	.096	6090214.	3.090
OTHER EXT. WALL	32126.	.088	307769.	.256	35053.	.087	374948.	.190
SUBTOTAL	9509836.	25.912	5810001.	4.837	196970.	.489	15516807.	7.872
INTERIOR FURRING	0.	.000	23641.	.020	0.	.000	23641.	.012
PARTITION	65218.	.178	573963.	.478	168278.	.417	807419.	.410
PANELING	108394.	.295	6364119.	5.299	665373.	1.651	7137887.	3.621
OTHER INT. WALL	158975.	.433	435505.	.363	305053.	.757	899532.	.456
SUBTOTAL	332587.	.906	7397228.	6.159	1138645.	2.825	8868480.	4.499
EXTERIOR DOORS	176559.	.481	224499.	.187	61544.	.153	462601.	.235
INTERIOR DOORS	351766.	.958	5148804.	4.287	1228017.	3.047	6728587.	3.414
MOULDING + TRIM	12198.	.033	609664.	.508	103812.	.258	725694.	.368
SMELVING	1160213.	3.161	13218907.	11.006	4906975.	12.175	19286095.	9.785
BASE CABINETS	1058534.	2.884	5835028.	4.858	1840122.	4.566	8733683.	4.431
WALL CABINETS	155037.	.422	1179232.	.982	308241.	.765	1642531.	.833
STORAGE CABINETS	2389316.	6.510	22095041.	18.397	5070276.	12.580	29554633.	14.994
OTHER MILLWORK	146028.	.398	3626746.	3.020	862968.	2.141	4635722.	2.352
SUBTOTAL	5449651.	14.849	51937921.	43.244	14381974.	35.685	71769546.	36.411
FACILITATING	2661117.	7.251	40773674.	33.949	23659188.	58.703	67093899.	34.039
ALL ITEMS	36701000.	100.000	120104000.	100.000	40303000.	100.000	197108000.	100.000

TABLE 32.-PLYWOOD USED IN HOSPITALS BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEFL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT
ROOF DECKING	1882211.0	57.953	296596.	1.462	366798.	.666	1948550.4	18.070
BLOCKING	0.	.000	10385.	.051	21778.	.040	32163.	.030
OTHER ROOF	146381.	.451	0.	.000	71400.	.130	217781.	.202
SURTOTAL	18968491.	58.404	306981.	1.513	459975.	.835	19735448.	18.302
SUBFLOORING	474179.	1.460	18531.	.091	208646.	.379	701355.	.650
FLOOR DECKING	4079.	.013	0.	.000	9333.	.017	13413.	.012
UNDERLAYMENT	171338.	.528	0.	.000	36431.	.066	207769.	.193
FINISH FLOORING	47514.	.146	0.	.000	1556.	.003	49069.	.046
STAIRS	480.	.001	0.	.000	0.	.000	480.	.000
SURTOTAL	697590.	2.148	18531.	.091	255965.	.465	972086.	.901
EXTERIOR SIDING	27692.	.085	14275.	.070	0.	.000	41967.	.039
SHEATHING	821606.	2.530	376889.	1.857	0.	.000	1198495.	1.111
CORNICE/MANSARD	1143332.	3.520	778012.	3.834	377874.	.686	2299217.	2.132
OTHER EXT. WALL	28556.	.088	9164.	.045	0.	.000	37720.	.035
SUBTOTAL	2021187.	6.223	1178340.	5.807	377874.	.686	3577400.	3.317
PARTITION	2016.	.006	92125.	.454	47646.	.087	141787.	.131
PANELING	188928.	.582	230170.	1.134	531095.	.964	950192.	.881
OTHER INT. WALL	29156.	.090	12992.	.064	0.	.000	42148.	.039
SUBTOTAL	220100.	.678	335287.	1.652	578741.	1.051	1134128.	1.052
EXTERIOR DOORS	74150.	.228	181847.	.896	17624.	.032	273622.	.254
INTERIOR DOORS	1306607.	4.023	2004633.	9.879	1896944.	3.445	5208184.	4.830
WINDOWS	0.	.000	0.	.000	6222.	.011	6222.	.006
MOULDING + TRIM	8543.	.026	40727.	.201	80095.	.145	129365.	.120
SHELVING	355058.	1.093	1729338.	8.522	1394268.	2.532	3478664.	3.226
BASE CABINETS	1423712.	4.384	982075.	4.840	1827224.	3.318	4233011.	3.925
WALL CABINETS	218060.	.671	249128.	1.228	313738.	.570	780926.	.724
STORAGE CABINETS	2690412.	8.284	3612462.	17.802	5092396.	9.248	11395270.	10.567
OTHER MILLWORK	579741.	1.785	468465.	2.309	1402407.	2.547	2450703.	2.273
SURTOTAL	6656283.	20.495	9268675.	45.676	12031009.	21.849	27955968.	25.925
FACILITATING	3914350.	12.052	9184187.	45.260	41361435.	75.114	54459971.	50.503
ALL ITEMS	32478000.	100.000	20292000.	100.000	55065000.	100.000	107835000.	100.000

TABLE 33.-PLYWOOD USED IN OTHER BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT	SQUARE FEET (3/8-INCH BASIS)	PERCENT
ROOF DECKING	9825233.	42.590	1899217.	4.157	135861.	.468	11860311.	12.125
BLOCKING	0.	.000	28261.	.062	10206.	.035	38467.	.039
OTHER ROOF	341132.	1.478	397804.	.871	28147.	.097	767083.	.784
SUBTOTAL	10166366.	44.058	2325287.	5.090	174214.	.600	1265861.	12.948
SUBFLOORING	1536261.	4.658	665144.	1.456	278003.	.957	2479408.	2.535
FLOOR DECKING	1455291.	4.707	153324.	.336	47708.	.150	1652325.	1.689
UNDERLAYMENT	167846.	.727	196561.	.430	24371.	.084	388779.	.397
FINISH FLOORING	0.	.000	153874.	.337	0.	.000	153874.	.157
STAIRS	0.	.000	0.	.000	0.	.000	0.	.000
OTHER FLOOR	13987.	.061	57787.	.126	915.	.003	915.	.001
SUBTOTAL	3173386.	11.752	1226692.	2.685	368600.	1.269	4768757.	4.875
EXTERIOR SIDING	511828.	2.218	540753.	1.184	0.	.000	1052581.	1.074
SHEATHING	858814.	3.722	9280.	.020	44909.	.155	913003.	.933
CORNICE/MANSARD	783905.	3.197	2009814.	4.399	36917.	.127	2830636.	2.894
OTHER EXT. WALL	157486.	.682	188378.	.412	19051.	.066	364914.	.373
SUBTOTAL	2317033.	10.020	2748225.	6.016	100877.	.347	5161135.	5.276
INTERIOR FURRING	0.	.000	0.	.000	315.	.001	315.	.000
PARTITION	17514.	.076	56522.	.124	453155.	1.559	527291.	.539
PANELING	1234500.	5.350	3151597.	6.899	1115108.	3.837	5501205.	5.624
OTHER INT. WALL	543429.	2.355	472843.	1.035	34841.	.120	1051112.	1.075
SUBTOTAL	1795542.	7.781	3680961.	8.057	1603418.	5.518	7079922.	7.238
EXTERIOR DOORS	132878.	.576	326772.	.715	8398.	.029	468049.	.478
INTERIOR DOORS	370402.	1.605	1656047.	3.625	297306.	1.023	2323754.	2.376
WINDOWS	0.	.000	2531.	.006	0.	.000	2531.	.003
MOULDING + TRIM	40407.	.175	65802.	.144	26774.	.092	132983.	.136
SMELVING	222189.	.963	1084291.	2.373	594623.	2.046	1901103.	1.944
BASE CABINETS	441270.	1.917	1344544.	2.943	256378.	.882	2042192.	2.088
WALL CABINETS	34968.	.152	215289.	.471	52764.	.182	303021.	.310
STORAGE CABINETS	544465.	2.360	3075672.	6.732	508877.	1.751	4129014.	4.221
OTHER MILLWORK	280055.	1.214	781098.	1.710	499752.	1.720	1560905.	1.596
SUBTOTAL	2066635.	8.956	8552044.	18.720	2244873.	7.725	12863552.	13.150
FACILITATING	3561038.	15.437	27150796.	59.437	24566938.	84.567	55278772.	56.512
ALL ITEMS	23075000.	100.000	45684000.	100.000	29059000.	100.000	97818000.	100.000

Table 34.--Hardboard used per 100 square feet of floor area and per \$1,000 of construction value, by building type and structural class--United States, 1969

(Square feet, 1/8-inch basis)

Building type	Structural class							
	Wood		Steel/masonry		Concrete		All classes	
	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value
Nonhousekeeping	16.20	8.75	4.86	2.15	7.57	2.78	8.53	3.65
Industrial	2.00	1.52	.49	.36	.24	.12	.68	.49
Commercial	3.28	2.12	1.71	.90	.31	.13	1.79	.94
Religious	4.30	2.13	2.84	1.04	3.93	1.91	3.82	1.70
Educational	3.19	1.25	6.59	2.44	8.04	2.50	6.68	2.39
Hospital	12.03	5.18	2.86	.89	2.85	.66	4.36	1.22
Other	1.43	.77	2.08	.83	.69	.24	1.66	.67
All buildings	4.17	2.47	2.16	1.12	3.34	1.12	2.60	1.28

Table 35.--Hardboard used in construction, by building type and structural class--United States, 1969

(Thousand square feet, 1/8-inch basis)

Building type	Structural class			
	Wood	Steel/ masonry	Concrete	All classes
Nonhousekeeping	2,252	1,137	1,644	5,033
Industrial	1,371	2,192	41	3,604
Commercial	2,239	6,499	146	8,884
Religious	1,194	391	96	1,681
Educational	431	12,334	3,725	16,490
Hospital	1,632	867	1,117	3,616
Other	290	1,989	248	2,527
All buildings	9,409	25,409	7,017	41,835

Note: Data may not add to totals because of rounding.

TABLE 36.-HARDBOARD USED IN ALL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT
OTHER ROOF	0.	.000	764979.	3.011	12579.	.179	777558.	1.859
SUBFLOORING	0.	.000	135653.	.534	0.	.000	135653.	.324
UNDERLAYMENT	1400590.	14.886	90435.	.356	34078.	.486	1525104.	3.646
OTHER FLOOR	0.	.000	37666.	.148	0.	.000	37666.	.090
SUBTOTAL	1400590.	14.886	263755.	1.038	34078.	.486	1698423.	4.060
EXTERIOR SIDING	138944.	1.477	0.	.000	0.	.000	138944.	.332
SHEATHING	91700.	.975	0.	.000	0.	.000	91700.	.219
CORNICE/MANSARD	317371.	3.373	40696.	.160	0.	.000	358067.	.856
OTHER EXT. WALL	0.	.000	814929.	3.207	0.	.000	814929.	1.968
SUBTOTAL	548015.	5.824	856625.	3.367	0.	.000	1403639.	3.355
PARTITION	214584.	2.281	1443913.	5.683	107517.	1.533	1766035.	4.221
PANELING	2076848.	22.073	4913416.	19.337	396866.	5.456	7387130.	17.658
OTHER INT. WALL	2052194.	21.811	503005.	1.980	70085.	.999	2625285.	6.275
SUBTOTAL	4343626.	46.165	6860335.	27.000	574468.	8.187	11778449.	28.155
EXTERIOR DOORS	0.	.000	273000.	1.074	29972.	.412	301932.	.722
INTERIOR DOORS	65500.	.696	560007.	2.204	5400.	.077	630908.	1.508
MOULDING + TRIM	88402.	.940	581431.	2.288	64879.	.860	714712.	1.708
SHELVING	85928.	.913	236998.	.933	91498.	1.304	414424.	.991
BASE CABINETS	1881105.	19.567	7061368.	27.791	3197399.	45.566	12099872.	28.923
WALL CABINETS	196102.	2.063	737035.	2.901	443401.	6.319	1374538.	3.286
STORAGE CABINETS	76719.	.815	285774.	1.125	873967.	12.455	1236460.	2.956
OTHER MILLWORK	765013.	8.131	6928693.	27.269	1283294.	18.288	8976989.	21.458
SUBTOTAL	3116769.	33.125	16664307.	65.584	5968760.	85.061	25749835.	61.551
FACILITATING	0.	.000	0.	.000	427094.	6.087	427094.	1.021
ALL ITEMS	9409000.	100.000	25409000.	100.000	7017000.	100.000	41835000.	100.000

TABLE 37.-HARDBOARD USED IN NONHOUSEKEEPING BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT
UNDERLAYMENT	1063756.	47.236	0.	.000	0.	.000	1063756.	21.136
PANELING	0.	.000	0.	.000	17552.	1.068	17552.	.349
OTHER INT. WALL	1058463.	47.001	3802.	.334	0.	.000	1062266.	21.106
SUBTOTAL	1058463.	47.001	3802.	.334	17552.	1.068	1079817.	21.455
INTERIOR DOORS	0.	.000	2808.	.247	0.	.000	2808.	.056
SHELVING	0.	.000	39388.	3.464	0.	.000	39388.	.783
BASE CABINETS	119845.	5.322	221921.	19.518	589679.	35.869	931444.	18.507
WALL CABINETS	8216.	.365	23009.	2.024	168655.	10.259	199881.	3.971
STORAGE CABINETS	0.	.000	191872.	16.875	839422.	51.060	1031294.	20.491
OTHER MILLWORK	1720.	.076	654199.	57.537	28693.	1.745	684612.	13.602
SUBTOTAL	129781.	5.763	1133198.	99.666	1626448.	98.932	2889427.	57.410
ALL ITEMS	2252000.	100.000	1137000.	100.000	1644000.	100.000	5033000.	100.000

TABLE 38.-HARDBOARD USED IN INDUSTRIAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT
CORNICE/MANSARD	273161.	19.924	0.	.000	0.	.000	273161.	7.579
PARTITION	0.	.000	531351.	24.240	0.	.000	531351.	14.743
PANELING	447534.	32.643	383357.	17.489	10456.	25.502	841346.	23.345
OTHER INT. WALL	0.	.000	0.	.000	2225.	5.426	2225.	.062
SUBTOTAL	447534.	32.643	914708.	41.729	12680.	30.928	1374922.	38.150
EXTERIOR DOORS	0.	.000	259435.	11.836	0.	.000	259435.	7.199
INTERIOR DOORS	0.	.000	348587.	15.903	0.	.000	348587.	9.672
MOULDING + TRIM	88402.	6.448	0.	.000	0.	.000	88402.	2.453
SHELVING	7072.	.516	24746.	1.220	3782.	9.274	37600.	1.043
BASE CABINETS	82877.	6.045	331827.	15.138	22313.	54.422	437016.	12.126
WALL CABINETS	14476.	1.056	43239.	1.973	2225.	5.426	59940.	1.663
OTHER MILLWORK	457479.	33.368	267458.	12.202	0.	.000	724937.	20.115
SUBTOTAL	650305.	47.437	1277292.	58.271	28370.	69.072	1955917.	54.271
ALL ITEMS	1371000.	100.000	2197000.	100.000	41000.	100.000	3604000.	100.000

TABLE 39-HARDBOARD USED IN COMMERCIAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT
OTHER ROOF	0.	.000	764979.	11.771	0.	.000	764979.	8.611
OTHER EXT. WALL	0.	.000	720392.	11.085	0.	.000	720392.	8.109
PARTITION	201953.	9.020	0.	.000	0.	.000	201953.	2.273
PANELING	1593366.	71.163	3966438.	61.032	0.	.000	5559784.	62.582
SURTOTAL	1795298.	80.183	3966438.	61.032	0.	.000	5761737.	64.855
EXTERIOR DOORS	0.	.000	0.	.000	24845.	17.031	24865.	.280
SHELVING	0.	.000	155619.	2.395	0.	.000	155619.	1.752
BASE CABINETS	328024.	14.650	818047.	12.587	108540.	74.342	1254611.	14.122
WALL CABINETS	25838.	1.154	48600.	.748	8127.	5.573	82584.	.930
OTHER MILLWORK	89839.	4.012	24916.	.383	4459.	3.054	119214.	1.342
SURTOTAL	443702.	19.817	1047191.	16.113	146000.	100.000	1636892.	18.425
ALL ITEMS	2239000.	100.000	6499000.	100.000	146000.	100.000	8884000.	100.000

TABLE 40-HARDBOARD USED IN RELIGIOUS BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT
UNDERLAYMENT	336835.	28.211	0.	.000	0.	.000	336835.	20.038
EXTERIOR SIDING	138944.	11.637	0.	.000	0.	.000	138944.	8.266
CORNICE/MANSARD	44210.	3.703	0.	.000	0.	.000	44210.	2.630
SURTOTAL	183154.	15.340	0.	.000	0.	.000	183154.	10.896
PARTITION	12631.	1.058	0.	.000	0.	.000	12631.	.751
PANELING	21578.	1.807	43499.	11.125	0.	.000	65077.	3.871
OTHER INT. WALL	114471.	9.587	0.	.000	0.	.000	114471.	6.810
SURTOTAL	148681.	12.452	43499.	11.125	0.	.000	192180.	11.432
MOULDING • TRIM	0.	.000	870.	.223	0.	.000	870.	.052
SHELVING	1263.	.106	272.	.070	0.	.000	1535.	.091
BASE CABINETS	389649.	32.634	258682.	66.159	34941.	36.417	683292.	40.648
WALL CABINETS	60104.	5.034	27051.	6.918	8772.	9.138	95927.	5.707
STORAGE CABINETS	4053.	.339	21478.	5.493	0.	.000	25530.	1.519
OTHER MILLWORK	70262.	5.885	39149.	10.013	52267.	54.445	161678.	9.618
SURTOTAL	525331.	43.998	347501.	88.875	96000.	100.000	968832.	57.634
ALL ITEMS	1194000.	100.000	391800.	100.000	96000.	100.000	1681000.	100.000



TABLE 41.-HARDBOARD USED IN EDUCATIONAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT
SUBFLOORING UNDERLAYMENT	0.	.000	135653.	1.100	0.	.000	135653.	.823
OTHER FLOOR	0.	.000	90435.	.733	0.	.000	90435.	.548
SUBTOTAL	0.	.000	37666.	.305	0.	.000	37666.	.228
CORNICE/MANSARD	0.	.000	263755.	2.138	0.	.000	263755.	1.599
PARTITION PANELING	0.	.000	40696.	.330	0.	.000	40696.	.247
OTHER INT. WALL	14390.	3.339	731170.	5.928	43896.	1.178	775065.	4.700
SUBTOTAL	0.	.000	503612.	4.083	316095.	8.486	834096.	5.058
EXTERIOR DOORS	269799.	62.598	499203.	4.047	67860.	1.822	567064.	3.439
MOULDING + TRIM	3923.	.910	173984.	14.059	427851.	11.486	2176225.	13.197
SHELVING	0.	.000	13565.	.110	4068.	.109	17633.	.107
BASE CABINETS	0.	.000	445846.	3.615	44879.	1.205	490725.	2.976
WALL CABINETS	0.	.000	13791.	.112	9378.	.252	23169.	.141
STORAGE CABINETS	3923.	.910	3661297.	29.685	1603371.	43.044	5534667.	33.563
OTHER MILLWORK	142887.	33.152	425656.	3.451	179639.	4.823	609219.	3.694
SUBTOTAL	416610.	96.661	57653.	.467	497.	.113	58150.	.353
FACILITATING	0.	.000	567756.	46.033	1028223.	27.603	6848867.	41.533
ALL ITEMS	431000.	100.000	10295565.	83.473	2870055.	77.048	13582230.	82.366
	0.	.000	0.	.000	427094.	11.466	427094.	2.590
	431000.	100.000	12334000.	100.000	3725000.	100.000	16490000.	100.000

TABLE 42.-HARDBOARD USED IN HOSPITALS BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT
PARTITION PANELING	0.	.000	0.	.000	45745.	4.095	45745.	1.265
OTHER INT. WALL	0.	.000	16510.	1.904	15884.	1.422	32394.	.896
SUBTOTAL	879260.	53.876	0.	.000	0.	.000	879260.	24.316
INTERIOR DOORS	879260.	53.876	16510.	1.904	61628.	5.517	957398.	26.477
SHELVING	65500.	4.014	1812.	.209	5400.	.483	72713.	2.011
BASE CABINETS	76501.	4.688	0.	.000	78338.	7.013	154839.	4.282
WALL CABINETS	469968.	28.797	756926.	87.304	742528.	66.475	1969422.	54.464
STORAGE CABINETS	65278.	4.000	53899.	6.217	65441.	5.859	184618.	5.106
OTHER MILLWORK	72666.	4.453	0.	.000	32541.	2.915	105228.	2.910
SUBTOTAL	2826.	.173	37852.	4.366	131143.	11.737	171782.	4.751
ALL ITEMS	752740.	46.124	850490.	98.096	1055372.	94.483	2658602.	73.523
	1632000.	100.000	867000.	100.000	1117000.	100.000	3616000.	100.000

TABLE 43.-HARDBOARD USED IN OTHER BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEFL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT	SQUARE FEET (1/8-INCH BASIS)	PERCENT
OTHER ROOF	0.	.000	0.	.000	12579.	5.072	12579.	.498
UNDERLAYMENT	0.	.000	0.	.000	34078.	13.741	34078.	1.349
SHEATHING	91700.	31.621	0.	.000	0.	.000	91700.	3.629
OTHER EXT. WALL	0.	.000	94537.	4.753	0.	.000	94537.	3.741
SUBTOTAL	91700.	31.621	94537.	4.753	0.	.000	186237.	7.370
PARTITION	0.	.000	181393.	9.120	17897.	7.216	199290.	7.886
PANELING	0.	.000	0.	.000	36880.	14.871	36880.	1.459
SUBTOTAL	0.	.000	181393.	9.120	54777.	22.087	236170.	9.346
INTERIOR DOORS	0.	.000	206800.	10.397	0.	.000	206800.	8.184
MOULDING + TRIM	0.	.000	134715.	6.773	0.	.000	134715.	5.331
SHELVING	1092.	.376	1182.	.059	0.	.000	2273.	.090
BASE CABINETS	180943.	62.394	1012669.	50.913	96008.	38.713	1289620.	51.034
WALL CABINETS	16266.	5.609	115572.	5.811	10532.	4.247	142370.	5.634
STORAGE CABINETS	0.	.000	14771.	.743	1487.	.599	16258.	.643
OTHER MILLWORK	0.	.000	227367.	11.431	38538.	15.540	265900.	10.522
SUBTOTAL	198300.	68.379	1713070.	86.127	146565.	59.099	2057936.	81.438
ALL ITEMS	290000.	100.000	1989000.	100.000	248000.	100.000	2527000.	100.000

Table 44.--Particleboard used per 100 square feet of floor area and per \$1,000 of construction value, by building type and structural class--United States, 1969

(Square feet, 3/4-inch basis)

Building type	Structural class							
	Wood		Steel/masonry		Concrete		All classes	
	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value
Nonhousekeeping	2.15	1.16	10.64	4.71	3.77	1.38	6.12	2.62
Industrial	.63	.48	.08	.06	.04	.02	.15	.11
Commercial	.14	.09	.18	.09	.60	.26	.22	.11
Religious	2.43	1.20	1.23	.45	1.64	.80	2.01	.89
Educational	.75	.29	1.81	.67	1.83	.57	1.76	.63
Hospital	2.45	1.06	2.19	.68	2.83	.66	2.53	.71
Other	.64	.35	.70	.28	.59	.21	.67	.27
All buildings	.92	.54	.72	.37	1.58	.53	.86	.42

Table 45.--Particleboard used in construction, by building type and structural class--United States, 1969

(Thousand square feet, 3/4-inch basis)

Building type	Structural class			
	Wood	Steel/ masonry	concrete	All classes
Nonhousekeeping	299	2,490	819	3,608
Industrial	435	363	8	806
Commercial	98	681	283	1,062
Religious	674	169	40	883
Educational	101	3,392	850	4,343
Hospital	332	665	1,107	2,104
Other	130	668	213	1,011
All buildings	2,069	8,428	3,320	13,817

Note: Data may not add to totals because of rounding.

TABLE 46.-PARTICLEBOARD USED IN ALL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (3/4-INCH BASTS)	PERCENT	SQUARE FEET (3/4-INCH BASTS)	PERCENT	SQUARE FEET (3/4-INCH BASTS)	PERCENT	SQUARE FEET (3/4-INCH BASTS)	PERCENT
OTHER ROOF	192526.	9.305	0.	.000	0.	.000	192526.	1.393
SUBFLOORING	0.	.000	0.	.000	8400.	.756	8490.	.061
UNDERLAYMENT	0.	.000	0.	.000	2522.	.076	2522.	.018
STAIRS	0.	.000	0.	.000	170.	.005	170.	.001
OTHER FLOOR	0.	.000	253005.	3.002	21148.	.638	274173.	1.984
SUBTOTAL	0.	.000	253005.	3.002	37349.	.974	285355.	2.065
CORNICE/MANSARD	0.	.000	8186.	.097	0.	.000	8186.	.059
OTHER EXT. WALL	0.	.000	0.	.000	86766.	2.613	86766.	.628
SUBTOTAL	0.	.000	8186.	.097	86766.	2.613	94951.	.687
INTERIOR FURRING	0.	.000	7105.	.084	0.	.000	7105.	.051
PARTITION	69362.	3.352	297447.	3.529	128668.	3.876	495477.	3.586
PANELING	18980.	.914	143057.	1.697	94989.	2.861	256946.	1.860
OTHER INT. WALL	0.	.000	31298.	.371	15418.	.464	46716.	.338
SUBTOTAL	88263.	4.266	478907.	5.682	239074.	7.201	805244.	5.835
EXTERIOR DOORS	0.	.000	0.	.000	7294.	.270	7294.	.053
INTERIOR DOORS	129416.	6.255	215021.	2.551	402389.	12.170	746826.	5.405
MOULDING + TRIM	20044.	.969	0.	.000	0.	.000	20044.	.145
SHELVING	100449.	4.855	278432.	3.304	22842.	.687	401682.	2.907
BASE CABINETS	1097092.	53.025	3110191.	36.903	1391401.	41.912	5598773.	40.521
WALL CABINETS	57684.	2.788	284845.	3.388	206853.	6.231	549382.	3.976
STORAGE CABINETS	233893.	11.305	2038855.	24.191	643859.	13.369	2716606.	19.661
OTHER MILLWORK	149634.	7.232	1760560.	20.889	487124.	14.672	2397318.	17.350
SUBTOTAL	1788211.	86.429	7687902.	91.219	2961811.	89.211	12437924.	90.019
ALL ITEMS	2069000.	100.000	8428000.	100.000	3320000.	100.000	13817000.	100.000

TABLE 47.-PARTICLEBOARD USED IN NONHOUSEKEEPING BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT
UNDERLAYMENT	0.	.000	0.	.000	2522.	.308	2522.	.070
CORNICE/MANSARD	0.	.000	8186.	.329	0.	.000	8186.	.227
PANELING	0.	.000	0.	.000	35152.	4.292	35152.	.974
INTERIOR DOORS	2509.	.834	0.	.000	0.	.000	2509.	.070
BASE CABINETS	98073.	32.800	125378.	5.075	247540.	30.225	471991.	13.082
WALL CABINETS	1770.	.592	54447.	2.186	88576.	10.815	144789.	4.013
STORAGE CABINETS	173536.	58.039	1360675.	54.646	354888.	43.322	1889019.	52.356
OTHER MILLWORK	23112.	7.730	940318.	37.764	90402.	11.038	1853832.	29.208
SUBTOTAL	299000.	100.000	2481814.	99.671	781326.	95.400	3562140.	98.729
ALL ITEMS	299000.	100.000	2490000.	100.000	819000.	100.000	3608000.	100.000

TABLE 48.-PARTICLEBOARD USED IN INDUSTRIAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT
PANELING	12863.	2.957	0.	.000	0.	.000	12863.	1.596
OTHER INT. WALL	0.	.000	1014.	.279	0.	.000	1014.	.126
SUBTOTAL	12863.	2.957	1014.	.279	0.	.000	13877.	1.722
INTERIOR DOORS	0.	.000	36890.	10.163	0.	.000	36890.	4.577
SHELVING	0.	.000	9223.	2.541	1813.	22.663	11036.	1.369
BASE CABINETS	398852.	91.690	193305.	53.252	6187.	77.337	598343.	74.236
WALL CABINETS	23286.	5.353	18353.	5.056	0.	.000	41639.	5.166
STORAGE CABINETS	0.	.000	4611.	1.270	0.	.000	4611.	.572
OTHER MILLWORK	0.	.000	99604.	27.439	0.	.000	99604.	12.358
SUBTOTAL	422177.	97.043	361986.	99.771	8000.	100.000	792123.	98.278
ALL ITEMS	435000.	100.000	363000.	100.000	8000.	100.000	806000.	100.000

TABLE 49.-PARTICLEBOARD USED IN COMMERCIAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT
OTHER FLOOR	0.	.000	253005.	37.152	0.	.000	253005.	23.823
PARTITION	0.	.000	0.	.000	77258.	27.300	77258.	7.275
PANELING	0.	.000	79789.	11.716	28112.	9.941	107921.	10.162
OTHER INT. WALL	0.	.000	22164.	3.255	1586.	.564	23759.	2.237
SUBTOTAL	0.	.000	101992.	14.971	106996.	37.804	208938.	19.674
SHELVING	14715.	15.015	12889.	1.893	4071.	1.424	31635.	2.979
BASE CABINETS	83285.	84.985	258281.	39.195	43374.	15.326	194940.	37.188
WALL CABINETS	0.	.000	17594.	2.584	1554.	.549	19148.	1.803
OTHER MILLWORK	0.	.000	27278.	4.006	127056.	44.896	154336.	14.532
SUBTOTAL	98000.	100.000	326043.	47.877	176014.	62.196	600057.	56.503
ALL ITEMS	98000.	100.000	681000.	100.000	283000.	100.000	1062000.	100.000

TABLE 50.-PARTICLEBOARD USED IN RELIGIOUS BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT
OTHER ROOF	192526.	28.565	0.	.000	0.	.000	192526.	21.804
PARTITION	69362.	10.291	0.	.000	0.	.000	69362.	7.855
PANELING	0.	.000	3126.	1.849	0.	.000	3126.	.354
SUBTOTAL	69362.	10.291	3126.	1.849	0.	.000	72488.	8.209
INTERIOR DOORS	119208.	17.687	0.	.000	0.	.000	119208.	13.500
MOULDING • TRIM	20044.	2.974	0.	.000	0.	.000	20044.	2.270
BASE CABINETS	183665.	27.250	78593.	46.505	30359.	75.898	292617.	33.139
WALL CABINETS	23868.	3.541	2500.	1.480	9641.	24.102	36009.	4.078
OTHER MILLWORK	65327.	9.692	84781.	50.166	0.	.000	150108.	17.000
SUBTOTAL	412112.	61.164	165874.	98.151	40000.	100.000	617986.	69.987
ALL ITEMS	674000.	100.000	169000.	100.000	40000.	100.000	883000.	100.000

TABLE 51.-PARTICLEBOARD USED IN EDUCATIONAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT
SUBFLOORING	0.	.000	0.	.000	8400.	.999	8490.	.195
STAIRS	0.	.000	0.	.000	170.	.020	170.	.004
OTHER FLOOR	0.	.000	0.	.000	21148.	2.490	21168.	.487
SUBTOTAL	0.	.000	0.	.000	29828.	3.509	29828.	.687
OTHER EXT. WALL	0.	.000	0.	.000	86766.	10.208	86766.	1.998
PARTITION	0.	.000	259595.	7.657	2764.	.266	261859.	6.029
PANELING	6038.	5.979	30910.	.911	21989.	2.587	58936.	1.357
OTHER INT. WALL	0.	.000	0.	.000	8014.	.947	8014.	.185
SUBTOTAL	6038.	5.978	290504.	8.564	32267.	3.796	328809.	7.571
INTERIOR DOORS	0.	.001	9296.	.274	71643.	8.429	80939.	1.864
SHELVING	15318.	15.167	254487.	7.507	16261.	1.913	286061.	6.587
BASE CABINETS	77005.	76.243	1642861.	48.477	510047.	60.007	2229928.	51.345
WALL CABINETS	794.	.786	153619.	4.529	10573.	1.244	164985.	3.799
STORAGE CABINETS	0.	.000	659561.	19.445	23676.	2.781	683197.	15.731
OTHER MILLWORK	1845.	1.827	381676.	11.257	68966.	8.114	452487.	10.419
SUBTOTAL	94962.	94.022	3101496.	91.436	701160.	82.497	7897597.	89.744
ALL ITEMS	101000.	100.000	3392000.	100.000	850000.	100.000	4343000.	100.000

TABLE 52.-PARTICLEBOARD USED IN HOSPITALS BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT
INTERIOR FIRING	0.	.000	7105.	1.068	0.	.000	7105.	.338
PARTITION	0.	.000	27609.	4.152	48707.	4.408	76406.	3.631
PANELING	0.	.000	29273.	4.396	5070.	.458	34302.	1.630
OTHER INT. WALL	0.	.000	8120.	1.221	0.	.000	8120.	.386
SUBTOTAL	0.	.000	72064.	10.837	52847.	4.866	125933.	5.985
INTERIOR DOORS	0.	.000	164839.	24.788	215151.	19.436	379991.	18.060
SHELVING	70416.	21.210	609.	.092	0.	.000	71025.	3.376
BASE CABINETS	138860.	41.825	357264.	53.724	512145.	46.266	1008291.	47.923
WALL CABINETS	3018.	.909	23021.	3.462	94315.	8.520	120353.	5.720
STORAGE CABINETS	60356.	18.180	14007.	2.106	60367.	5.453	134726.	6.403
OTHER MILLWORK	59350.	17.877	37191.	4.991	171139.	15.460	263680.	12.532
SUBTOTAL	332000.	100.000	592934.	89.163	1053133.	95.134	1978067.	94.015
ALL ITEMS	332000.	100.000	665000.	100.000	1107000.	100.000	2104000.	100.000



TABLE 53.-PARTICLEBOARD USED IN OTHER BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT	SQUARE FEET (3/4-INCH BASIS)	PERCENT
PARTITION	0.	.000	10244.	1.534	348.	.164	10592.	1.048
PANELING	0.	.000	0.	.000	4646.	2.181	4646.	.460
OTHER INT. WALL	0.	.000	0.	.000	5808.	2.727	5808.	.574
SUBTOTAL	0.	.000	10244.	1.534	10802.	5.071	21046.	2.082
EXTERIOR DOORS	0.	.000	0.	.000	7294.	3.425	7294.	.721
INTERIOR DOORS	7699.	5.922	3995.	.598	115595.	54.270	127289.	12.590
SHELVING	0.	.000	1229.	.184	697.	.327	1926.	.191
BASE CABINETS	117352.	90.271	443507.	66.393	41843.	19.626	602662.	59.610
WALL CABINETS	4949.	3.807	15315.	2.293	2195.	1.031	22459.	2.221
STORAGE CABINETS	0.	.000	0.	.000	5053.	2.372	5053.	.500
OTHER MILLWORK	0.	.000	193711.	28.999	29561.	13.878	223272.	22.084
SUBTOTAL	130000.	100.000	657754.	98.466	202198.	94.929	689954.	97.918
ALL ITEMS	130000.	100.000	668000.	100.000	213000.	100.000	1011000.	100.000

Table 54.--Insulation board used per 100 square feet of floor area and per \$1,000 of construction value, by building type and structural class--United States, 1969

(Square feet, 1/2-inch basis)

Building type	Structural class							
	Wood		Steel/masonry		Concrete		All classes	
	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value
Nonhousekeeping	1.64	.89	18.41	8.15	8.02	2.94	10.64	4.56
Industrial	0	0	9.16	6.72	0	0	7.68	5.57
Commercial	4.45	2.87	2.31	1.21	1.00	.43	2.48	1.31
Religious	5.63	2.79	14.60	5.34	.07	.03	8.13	3.62
Educational	2.50	.98	4.31	1.59	.94	.29	3.58	1.28
Hospital	2.13	.92	6.81	2.14	8.77	2.03	6.97	1.95
Other	6.71	3.64	1.05	.42	1.32	.47	1.87	.75
All buildings	3.02	1.79	5.70	2.96	3.12	1.05	4.99	2.45

Note: Zeros indicate no data or negligible amounts.

Table 55.--Insulation board used in construction, by building type and structural class--United States, 1969

(Thousand square feet, 1/2-inch basis)

Building type	Structural class			
	Wood	Steel/ masonry	Concrete	All classes
Nonhousekeeping	229	4,306	1,741	6,276
Industrial	0	40,695	0	40,695
Commercial	3,030	8,784	471	12,285
Religious	1,565	2,011	2	3,578
Educational	337	8,071	436	8,844
Hospital	288	2,061	3,435	5,784
Other	1,366	1,003	475	2,844
All buildings	6,815	66,931	6,560	80,306

Note: Data may not add to totals because of rounding. Zeros indicate no data or negligible amounts.

TABLE 56.-INSULATION BOARD USED IN ALL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT
ROOF INSULATION	4852869.	71.209	64920327.	96.996	4558002.	69.483	74331279.	92.560
OTHER ROOF	66427.	.975	2623.	.004	854.	.130	77591.	.097
SURTOTAL	4919296.	72.183	64922950.	97.000	4566623.	69.613	74408870.	92.657
SUBFLOORING	0.	.000	245769.	.367	104745.	1.597	350534.	.436
FLOOR DECKING	0.	.000	414217.	.619	4012.	.061	418279.	.521
UNDERLAYMENT	616095.	9.040	30374.	.045	1413149.	21.542	2059620.	2.565
OTHER FLOOR	0.	.000	112004.	.167	113917.	1.737	225921.	.281
SURTOTAL	616095.	9.040	802367.	1.199	1635843.	24.937	3054305.	3.803
SHEATHING	1156505.	16.970	79107.	.118	51409.	.784	1267016.	1.603
OTHER EXT. WALL	0.	.000	223193.	.333	24933.	.380	248126.	.309
SURTOTAL	1156505.	16.970	302299.	.452	76342.	1.164	1535142.	1.912
PARTITION	0.	.000	520405.	.778	213399.	3.253	733793.	.914
OTHER INT. WALL	123104.	1.806	0.	.000	11775.	.180	134879.	.168
SUBTOTAL	123104.	1.806	520405.	.778	225174.	3.432	868673.	1.082
OTHER MILLWORK	0.	.000	382984.	.572	56027.	.854	439011.	.547
ALL ITEMS	6815000.	100.000	66931000.	100.000	6560000.	100.000	80306000.	100.000

TABLE 57.-INSULATION BOARD USED IN NONHOUSEKEEPING BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT
ROOF INSULATION	0.	.000	3782977.	87.854	318226.	18.278	4101199.	65.347
OTHER ROOF	0.	.000	2623.	.061	0.	.000	2623.	.042
SUBTOTAL	0.	.000	3785595.	87.914	318226.	18.278	4103821.	65.389
UNDERLAYMENT	0.	.000	0.	.000	1413149.	81.169	1413149.	22.517
SHEATHING	105896.	46.243	0.	.000	4660.	.248	110556.	1.762
PARTITION	0.	.000	520405.	12.086	0.	.000	520405.	8.297
OTHER INT. WALL	123104.	53.757	0.	.000	4965.	.285	128069.	2.041
SUBTOTAL	123104.	53.757	520405.	12.086	4965.	.285	648474.	10.333
ALL ITEMS	229000.	100.000	4306000.	100.000	1741070.	100.000	6276000.	100.000

TABLE 58.-INSULATION BOARD USED IN INDUSTRIAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT
ROOF INSULATION	0.	.000	40440754.	99.375	0.	.000	40440754.	99.375
SHEATHING	0.	.000	31053.	.076	0.	.000	31053.	.076
OTHER EXT. WALL	0.	.000	223193.	.548	0.	.000	223193.	.548
SUBTOTAL	0.	.000	254246.	.625	0.	.000	254246.	.625
ALL ITEMS	0.	.000	40695000.	100.000	0.	.000	40695000.	100.000

TABLE 59.-INSULATION BOARD USED IN COMMERCIAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT
ROOF INSULATION	2413905.	79.667	8741065.	99.511	471000.	100.000	11625970.	94.635
UNDERLAYMENT	616095.	20.333	0.	.000	0.	.000	616095.	5.015
OTHER MILLWORK	0.	.000	42935.	.489	0.	.000	42935.	.349
ALL ITEMS	3030000.	100.000	8784000.	100.000	471000.	100.000	12285000.	100.000

TABLE 60.-INSULATION BOARD USED IN RELIGIOUS BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT
ROOF INSULATION	915817.	58.919	2008576.	99.879	0.	.000	2924393.	81.733
OTHER ROOF	66427.	4.245	0.	.000	0.	.000	66427.	1.857
SURTOTAL	982244.	62.763	2008576.	99.879	0.	.000	2990819.	83.589
SHEATHING	582756.	37.237	0.	.000	0.	.000	582756.	16.287
OTHER MILLWORK	0.	.000	2424.	.121	2000.	100.000	4424.	.124
ALL ITEMS	1565000.	100.000	2011000.	100.000	2000.	100.000	3578000.	100.000

TABLE 61.-INSULATION BOARD USED IN EDUCATIONAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT
ROOF INSULATION	337000.	100.000	6884295.	85.297	0.	.000	7221295.	81.652
OTHER ROOF	0.	.000	0.	.000	8541.	1.959	8541.	.097
SUBTOTAL	337000.	100.000	6884295.	85.297	8541.	1.959	7229836.	81.748
SUBFLOORING	0.	.000	245749.	3.045	104745.	24.029	350534.	3.964
FLOOR DECKING	0.	.000	414217.	5.132	0.	.000	414217.	4.684
UNDERLAYMENT	0.	.000	30376.	.376	0.	.000	30376.	.343
OTHER FLOOR	0.	.000	112004.	1.388	49091.	11.259	161095.	1.822
SUBTOTAL	0.	.000	802367.	9.941	153836.	35.288	956223.	10.812
SHEATHING	0.	.000	48049.	.595	0.	.000	48049.	.543
PARTITION	0.	.000	0.	.000	213389.	48.942	213389.	2.413
OTHER INT. WALL	0.	.000	0.	.000	6810.	1.562	6810.	.077
SUBTOTAL	0.	.000	0.	.000	220199.	50.504	220199.	2.490
OTHER MILLWORK	0.	.000	336289.	4.167	53474.	12.249	389693.	4.406
ALL ITEMS	337000.	100.000	8071000.	100.000	436000.	100.000	8844000.	100.000

TABLE 62.-INSULATION BOARD USED IN HOSPITALS BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT
ROOF INSULATION	0.	.000	2061000.	100.000	3297848.	96.008	5358868.	92.650
OTHER FLOOR	0.	.000	0.	.000	64826.	1.887	64826.	1.121
SHEATHING	288000.	100.000	0.	.000	46750.	1.361	334750.	5.788
OTHER EXT. WALL	0.	.000	0.	.000	24933.	.726	24933.	.431
SUBTOTAL	288000.	100.000	0.	.000	71683.	2.087	359683.	6.219
OTHER MILLWORK	0.	.000	0.	.000	623.	.018	623.	.011
ALL ITEMS	288000.	100.000	2061000.	100.000	3435000.	100.000	5784000.	100.000

TABLE 63.-INSULATION BOARD USED IN OTHER BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT	SQUARE FEET (1/2-INCH BASIS)	PERCENT
ROOF INSULATION	1186148.	86.834	1001664.	99.867	470988.	99.155	2658800.	93.488
FLOOR DECKING	0.	.000	0.	.000	4012.	.845	4012.	.141
SHEATHING	179852.	13.166	0.	.000	0.	.000	179852.	6.324
OTHER MILLWORK	0.	.000	1336.	.133	0.	.000	1336.	.047
ALL ITEMS	1366000.	100.000	1003000.	100.000	475000.	100.000	2844000.	100.000



Table 64.--Structural wood-fiberboard used per 100 square feet of floor area and per \$1,000 of construction value, by building type and structural class--United States, 1969

(Square feet, 1-inch basis)

Building type	Structural class							
	Wood		Steel/masonry		Concrete		All classes	
	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value	Per 100 square feet of floor area	Per \$1,000 of construction value
Nonhousekeeping	1.36	.73	12.23	5.42	3.15	1.16	6.33	2.71
Industrial	0	0	23.16	16.99	0	0	19.42	14.09
Commercial	0	0	1.05	.55	.43	.18	.85	.44
Religious	1.96	.97	12.94	4.74	0	0	5.32	2.37
Educational	26.04	10.20	23.11	8.54	12.62	3.93	21.30	7.63
Hospital	.07	.03	.11	.04	0	0	.06	.02
Other	21.21	11.51	10.59	4.25	13.36	4.73	12.67	5.10
All buildings	3.80	2.25	14.05	7.29	5.49	1.84	11.50	5.66

Note: Zeros indicate no data or negligible amounts.

Table 65.--Structural wood fiberboard used in construction, by building type and structural class--United States, 1969

(Thousand square feet, 1-inch basis)

Building Type	Structural class			All classes
	Wood	Steel/ masonry	Concrete	
Nonhousekeeping	188	2,860	684	3,732
Industrial	0	102,912	0	102,912
Commercial	0	3,987	197	4,184
Religious	545	1,794	0	2,339
Educational	3,516	43,241	5,851	52,608
Hospital	9	39	0	48
Other	4,313	10,146	4,805	19,264
All buildings	8,571	164,979	11,537	185,087

Note: Data may not add to totals because of rounding. Zeros indicate no data or negligible amounts.

TABLE 66.-STRUCTURAL WOOD-FIBERBOARD USED IN ALL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT
ROOF DECKING	8365282.	97.600	158559313.	96.109	8178253.	70.887	175102848.	96.606
ROOF INSULATION	158322.	1.847	2150179.	1.303	1458921.	12.646	3767422.	2.035
OTHER ROOF	36611.	.427	2480217.	1.503	1123822.	9.741	3640649.	1.967
SUBTOTAL	8560214.	99.874	163189708.	98.915	10768996.	93.274	182510919.	98.608
OTHER FLOOR	0.	.000	112712.	.068	664120.	5.756	776832.	.420
OTHER EXT. WALL	0.	.000	0.	.000	93399.	.810	93399.	.050
PARTITION	10786.	.126	0.	.000	0.	.000	10786.	.006
PANELING	0.	.000	1364821.	.827	18485.	.160	1383306.	.747
OTHER INT. WALL	0.	.000	311758.	.189	0.	.000	311758.	.168
SUBTOTAL	10786.	.126	1676579.	1.016	18485.	.160	1705850.	.922
ALL ITEMS	8571000.	100.000	164979000.	100.000	11537000.	100.000	185087000.	100.000

TABLE 67.-STRUCTURAL WOOD-FIBERBOARD USED IN NONHOUSEKEEPING BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT
ROOF DECKING	151389.	80.526	147263.	5.149	185007.	27.048	483659.	12.960
OTHER ROOF	36611.	19.474	2480217.	86.721	26756.	3.912	2543584.	66.156
SUBTOTAL	188000.	100.000	2627480.	91.870	211763.	30.960	3027243.	81.116
OTHER FLOOR	0.	.000	0.	.000	472217.	69.040	472237.	12.654
OTHER INT. WALL	0.	.000	232520.	8.130	0.	.000	232520.	6.230
ALL ITEMS	188000.	100.000	2860000.	100.000	684000.	100.000	3732000.	100.000

TABLE 68.-STRUCTURAL WOOD-FIBERBOARD USED IN INDUSTRIAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT
ROOF DECKING	0.	.000	102912000.	100.000	0.	.000	102912000.	100.000
ALL ITEMS	0.	.000	102912000.	100.000	0.	.000	102912000.	100.000

TABLE 69.-STRUCTURAL WOOD-FIBERBOARD USED IN COMMERCIAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT
ROOF DECKING	0.	.000	3559114.	89.268	0.	.000	3559114.	85.065
OTHER FLOOR	0.	.000	0.	.000	191883.	97.403	191883.	4.586
PANELING	0.	.000	348648.	8.745	5117.	2.597	353765.	8.455
OTHER INT. WALL	0.	.000	79238.	1.987	0.	.000	79238.	1.894
SUBTOTAL	0.	.000	427886.	10.732	5117.	2.597	433003.	10.349
ALL ITEMS	0.	.000	3987000.	100.000	197000.	100.000	4184000.	100.000

TABLE 70.-STRUCTURAL WOOD-FIBERBOARD USED IN RELIGIOUS BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT
ROOF DECKING	384893.	70.622	1794000.	100.000	0.	.000	2178893.	93.155
ROOF INSULATION	158322.	29.050	0.	.000	0.	.000	158322.	6.769
SUBTOTAL	543214.	99.672	1794000.	100.000	0.	.000	2337214.	99.924
PARTITION	1786.	.328	0.	.000	0.	.000	1786.	.076
ALL ITEMS	545000.	100.000	1794000.	100.000	0.	.000	2339000.	100.000

TABLE 71.-STRUCTURAL WOOD-FIBERBOARD USED IN EDUCATIONAL BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT
ROOF DECKING	3516000.	100.000	40143511.	92.837	4378711.	74.837	48038221.	91.314
ROOF INSULATION	0.	.000	2150179.	4.973	1458921.	24.935	3609100.	6.860
SUBTOTAL	3516000.	100.000	42293689.	97.809	5837632.	99.772	51647321.	98.174
OTHER FLOOR	0.	.000	112712.	.261	0.	.000	112712.	.214
PANELING	0.	.000	834598.	1.930	13368.	.228	847967.	1.612
ALL ITEMS	3516000.	100.000	43241000.	100.000	5851000.	100.000	52608000.	100.000

TABLE 72.-STRUCTURAL WOOD-FIBERBOARD USED IN HOSPITALS BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT
ROOF DECKING	0.	.000	39000.	100.000	0.	.000	39000.	81.250
PARTITION	9000.	100.000	0.	.000	0.	.000	9000.	18.750
ALL ITEMS	9000.	100.000	39000.	100.000	0.	.000	48000.	100.000

TABLE 73.-STRUCTURAL WOOD-FIBERBOARD USED IN OTHER BUILDINGS, BY CONSTRUCTION ITEM AND STRUCTURAL CLASS, 1969

CONSTRUCTION ITEM	STRUCTURAL CLASS							
	WOOD		STEEL/MASONRY		CONCRETE		ALL CLASSES	
	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT	SQUARE FEET (1-INCH BASIS)	PERCENT
ROOF DECKING	4313000.	100.000	9964426.	98.210	3614525.	75.224	17891961.	92.878
OTHER ROOF	0.	.000	0.	.000	1097065.	22.232	1097065.	5.695
SURTOTAL	4313000.	100.000	9964426.	98.210	4711601.	98.056	18989026.	98.573
OTHER EXT. WALL	0.	.000	0.	.000	93399.	1.944	93399.	.485
PANELING	0.	.000	181574.	1.790	0.	.000	181574.	.943
ALL ITEMS	4313000.	100.000	10146000.	100.000	4805000.	100.000	19264000.	100.000

**END**