

2006

Wood Used in Residential Repair and Remodeling U.S. and Canada

WITH COMPARISON TO 1997 AND 2003



WOOD PRODUCTS COUNCIL

2006
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Repair & Remodeling U.S. and Canada,
With Comparison to 1997 and 2003

Prepared for:

The Wood Products Council

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Executive Summary

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The repair and remodeling of residential units in both the United States and Canada is an important market for wood products. Many and varied repair and remodeling activities and projects are undertaken annually. Some require substantial amounts of wood products, some none at all. In 2006, about 28 percent of all solid wood products consumed in the United States and 31 percent of all solid wood products consumed in Canada are used for residential repair and remodeling (Adair 2008, FAO 2008, McKeever 2009). This market has become much more important in recent years as housing stocks have grown larger and older, and as homeowner incomes have risen.

In recent years, per capita expenditures for repair and remodeling increased in both the U.S. and Canada. From 1990 through 2004, the U.S. had higher per capita expenditures than Canada. In 2005, Canada overtook the U.S. with \$759 vs. \$727 for the U.S. Values are in constant 2005 U.S. dollars.

Between 2003 and 2006 consumption of all wood product categories increased in both the U.S. and Canada. For both countries combined, lumber (including the board foot equivalent of engineered lumber) consumption increased by 24 percent to 32.6 billion bf, structural panels by 19 percent to 9.0 billion ft² (3/8-inch basis), and nonstructural panels by 79 percent to 3.6 billion ft² (3/8-inch basis). Per capita consumption also increased to 98.4 bf, 27.2 ft² (3/8-inch basis), and 10.7 ft² (3/8-inch basis) for lumber, structural panels, and nonstructural panels respectively. This was a per capita increase of 20% for lumber, 16% for structural panels and 73% for nonstructural panels.

Competition

Wood products used in repair and remodeling compete with many non-wood products for market share. Among structural materials, wood competes primarily with concrete and steel. In nonstructural applications, wood competes primarily with composites that are commonly called “plastic wood”.

When structural framing is analyzed, the greatest opportunity to increase wood use is in structural floors of room additions where concrete has a 34% market share in the U.S. and Canada. This represents a potential gain for lumber, beams and engineered wood products of 756 MMBF. Steel use in floors has only a 3% share representing 69 MMBF of potential gain.

In structural walls, concrete has only a 2% share, the equivalent of 55 MMBF; steel with a 4% share, 115 MMBF. In roofs, steel with a 5% share represents a potential gain of 185 MMBF.

Adding up floor, wall and roof structural assemblies, concrete has a 9% share, the equivalent of 811 MMBF. With a 4% share, the use of steel is equivalent to 369 MMBF. Combined, the lumber, beam and engineered wood gain would be 1.18 BBF.

In floors, walls and roofs, structural and nonstructural wood panels have a 79% market share with concrete, foam and other non-wood panels having the remaining 21%. This represents a potential gain of 1.56 BSF of mostly structural panels and a small volume of non-structural panels that would primarily be used for underlayment.

Outdoor structures are another repair and remodeling category and include decks, porches and fencing. If concrete patios and walls are excluded from the analysis, wood products have a 74% market share; plastics and composites, 14%; and metal 12%. Converting non-wood decks, porch surfaces, railings and fences to wood products offers a potential gain 1.28 BBF of lumber and beam products.

In the millwork category, siding, soffits and fascia and exterior ornamental trim have historically been significant markets for wood products. In the U.S., 14% of the repair and remodeling siding area is wood and only 8% is wood in Canada. If all the non-wood products such as vinyl and fiber cement siding could be converted to wood, it would mean potential gains of approximately 5.2 BBF of lumber siding and 4.3 BSF of wood panel siding. The gains were calculated on the basis of lumber and panels having the same ratio of use as they did in 2006.

For exterior ornamental trim as well as soffits and fascia, if wood products could displace all of their competitors in the U.S. and Canada it would be a potential gain of 395 MMBF of lumber and 115 MMSF of wood panels. That's assuming lumber and wood panels were to be used in the same ratio as they were in 2006.

Table ES-1 provides a summary of potential gains for wood products if concrete, steel and plastic composites could be replaced in the repair and remodeling market.

Table ES-1. Potential gains for wood products in repair and remodeling in the U.S. and Canada, 2006.

	Lumber, Beams & EWP MMBF	Wood Based Panels MMSF 3/8"
A. Structural		
Floors	825	1,265
Walls	170	295
Roofs	<u>185</u>	<u>0</u>
Subtotal	1,180	1,560
B. Outdoor Structures ¹	1,280	0
C. Siding	5,220	4,315
D. Soffits, fascia, trim	<u>395</u>	<u>115</u>
Total	8,075	5,990

¹Includes only deck and porch surfaces and fencing.

When all potential gains for lumber are added up, the total is 8.1 BBF and the potential gain for wood panels is almost 6 BSF. Efforts to increase wood use in repair and remodeling may be difficult since the homeowner often makes decisions and homeowners are difficult to reach in a cost-effective manner. However, regional targeted marketing could be effective combined with improvements in product design, performance and targeted marketing efforts. Professional remodelers represent a much smaller universe and sometimes influence product choice for outdoor decks, etc. Promotion to this group must present a compelling business-based value proposition.

Expenditures

Annual activity in the residential repair and remodeling market is measured in the United States by the U.S. Department of Commerce, Bureau of the Census (USDC BC 2009) and in Canada by the Canada Mortgage and Housing Corporation (CMHC 2008) in terms of dollars of expenditure. In 2006 expenditures totaled \$228 billion (US) in the United States, and nearly \$34 billion (CA) in Canada (Table ES-2). These levels of expenditure represent an average of \$764 (US) for every person in the United States, and \$1,020 (CA) per person in Canada. Expenditures, when converted to constant 2005 (US) dollars, totaled nearly \$243 billion in 2006 for the two countries combined. The United States accounted for 88 percent of total expenditures, Canada 12 percent. Since 1990, total constant dollar expenditures have been fairly steady ranging from a low of \$204 billion in 1998 to the current high of \$243 in 2006. The distribution between the United States and Canada has always favored the U.S, but in recent years Canada has increased its share to 12 percent compared to an average of less than 8 percent during the 1990's. Per capita constant 2005 (US) dollar expenditures were consistently higher in the United States through the 1990's and early 2000's than in Canada. But in 2005 and 2006 per capita expenditures in Canada exceeded those in the United States.

Table ES-2. Residential repair & remodeling expenditures in the United States and Canada, 1990-2006.

Year	United States			Canada			Total		
	Total		Per capita (05 US \$)	Total		Per capita (05 US \$)	(Bil. 05 US \$)	U.S. share	Canada share
	(Bil. US \$)	(Bil. 05 US \$) ¹		(Bil. CA \$)	(Bil. 05 US \$) ^{1,2}				
1990	115.4	208.4	835	13.0	20.3	733	228.7	91%	9%
1991	107.7	192.7	764	11.8	18.4	657	211.1	91%	9%
1992	115.6	202.8	795	12.5	18.4	649	221.2	92%	8%
1993	121.9	203.8	791	13.2	17.2	599	221.0	92%	8%
1994	130.6	209.0	803	13.6	15.8	544	224.8	93%	7%
1995	125.0	191.7	729	13.0	14.7	500	206.3	93%	7%
1996	131.4	197.8	746	14.2	15.6	528	213.5	93%	7%
1997	133.6	195.3	729	15.0	15.9	533	211.2	92%	8%
1998	133.7	190.4	705	14.9	14.3	473	204.7	93%	7%
1999	142.9	195.0	715	15.7	14.3	472	209.3	93%	7%
2000	153.0	199.4	707	17.5	15.5	504	214.9	93%	7%
2001	157.8	196.7	690	20.6	16.8	542	213.5	92%	8%
2002	173.3	211.1	733	22.1	17.4	555	228.5	92%	8%
2003	176.9	205.5	707	24.2	20.3	642	225.8	91%	9%
2004	198.6	213.5	728	27.1	22.0	682	235.5	91%	9%
2005	215.0	215.0	727	30.3	24.8	759	239.8	90%	10%
2006	228.2	214.9	719	33.6	28.0	850	242.9	88%	12%

¹Based on price deflator (Fisher) index of new one-family houses under construction as reported by the U.S. Dept. of Commerce.

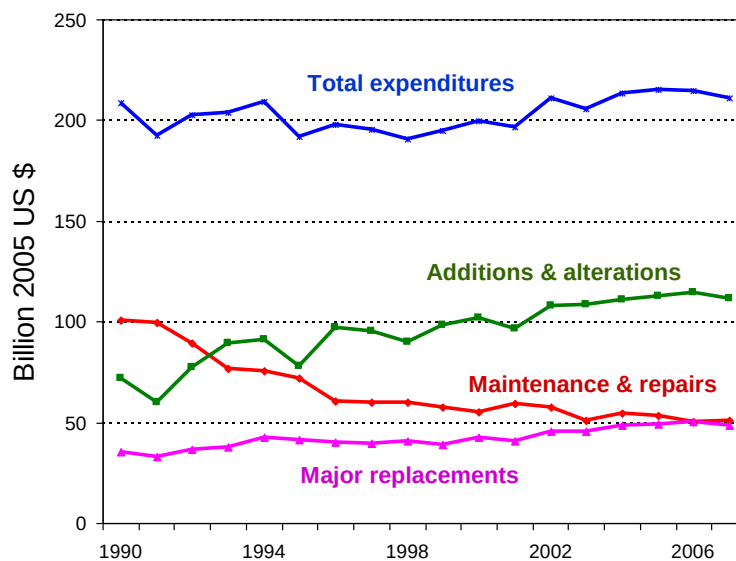
²Based on Federal Reserve Bank of St. Louis exchange rates.

Sources: CMHC 2008, FRB 2009, USDC BC 2009b and 2009c.

Wood products consumption for residential repair and remodeling is affected not only by total expenditures, but also by the types of activities for which the expenditures are made. Expenditures in the United States are tracked not only “in toto”, but also by three major activity types: maintenance & repairs, additions & alterations, and major replacements. Maintenance & repairs expenditures are for upkeep of the residential property rather than additional investment in the property. Examples include painting, plumbing repairs, and roof repairs. Additions & alterations expenditures are for enlargements to, or improvements to or within the residential structure or property. Examples include room additions, basement conversions, and outside deck additions. Major replacements are construction improvements to the property, and are closely related to maintenance and repair. The scope of the project defines its classification. Repairing an existing roof is maintenance; replacing the entire roof is a major replacement. Of these three expenditure types, additions and alterations are the most wood intensive and important in determining overall levels of wood products consumption. Since 1990, constant dollar expenditures in the United States for maintenance & repairs have steadily declined. In 1990 expenditures for major replacements were about one third of those for maintenance & repairs (Fig. ES-1). By 2006 expenditures were about the same for each type. Overall, additions & alterations expenditures have steadily increased since 1990.

Ownership of residential properties also affects repair and remodeling expenditures. In the United States in 2006 40 percent of all expenditures of owner occupied residences were for primarily wood intensive activities such as room and other additions, and major alterations within the structure. At the same time, renter occupied expenditures for primarily wood intensive activities were just 11 percent of their total expenditures.

Figure ES-1 – Expenditures for residential repair & remodeling in the United States, by type of expenditure, 1990-2006.



Wood Products Use

The repair and remodeling of occupied residential structures and properties in the United States and Canada required an estimated 26.1 billion bf of lumber, 7.2 billion ft² (3/8-inch basis) of structural panels, and 2.8 billion ft² (3/8-inch basis) of nonstructural panels in 2006 (Table ES-3). This level of consumption is equivalent to each person in the United States and Canada consuming 79 bf of lumber, 22 ft² (3/8-inch basis) of structural panels, and 9 ft² (3/8-inch basis) of nonstructural panels. It was estimated that this study accounted for 80 percent of total consumption. The remaining 20 percent was used for repair and remodeling to unoccupied housing (about 15 percent) and for activities for which data were not collected (about 5 percent). Adding these estimates increases total consumption to 32.6 billion bf of lumber, 9.0 billion ft² (3/8-inch basis) of structural panels, and 3.6 billion ft² (3/8-inch basis) of nonstructural panels.

Consumption of all wood product categories in both the United States and Canada was substantially higher in 2006 than in 2003 (Table ES-3, Fig. ES-2). These increases were in part the result of an overall increase in total constant dollar repair & remodeling expenditures (Table ES-2), and an increasing share of expenditures for additions and alteration, and for major replacements (Fig. ES-1). The combined United States and Canadian lumber and engineered lumber consumption increased by nearly 6.35 billion bf, the largest absolute increase of any wood product category. Per capita consumption increased from nearly 82 bf to 98 bf. Nonstructural panel consumption increased by nearly 90 percent between 2003 and 2006 but still remained the product with the lowest consumption level. Structural panel consumption increased from 7.6 to 9.0 billion ft² (3/8-inch basis), and from less than 24 ft² per capita to more than 27 ft².

Results of two studies conducted in the 1990's (McKeever and Anderson 1993, Wood Products Council 1999) are also presented in Table ES-3. These studies were conducted using a much different methodology than those conducted in the 2000's, and are therefore not strictly comparable. One difference between these studies is that the 1990's studies included unoccupied housing while the 2000's studies did not. Also the 1990's studies are based on wood use per \$1,000 of expenditure, while the 2000's studies are based on wood use per household. And consumption in Canada was not included in the 1990's studies. These earlier studies are however indicative of the continued magnitude of the residential repair and remodeling markets over the past 15 years.

Table ES-3. Wood products consumption for residential repair & remodeling in the United States and Canada, 1991, 1997, 2003 and 2006.

Year ³	United States			Canada			Total		
	Lumber ¹ (Mil bf)	Struc- tural panels ² (Mil ft ²)	Non- struc- tural panels ² (Mil ft ²)	Lumber ¹ (Mil bf)	Struc- tural panels ² (Mil ft ²)	Non- struc- tural panels ² (Mil ft ²)	Lumber ¹ (Mil bf)	Struc- tural panels ² (Mil ft ²)	Non- struc- tural panels ² (Mil ft ²)
1991									
Total ⁴	15,681	6,929	3,902	--	--	--	--	--	--
Per capita ⁵	62.2	16.2	5.1	--	--	--	--	--	--
1997									
Total ⁴	14,680	7,428	2,850	--	--	--	--	--	--
Per capita ⁵	54.8	27.7	10.6	--	--	--	--	--	--
2003									
Owner occupied	16,970	5,130	1,281	2,462	523	154	19,431	5,653	1,435
Renter occupied	1,375	362	130	292	44	24	1,666	406	154
Total	18,344	5,492	1,411	2,753	567	179	21,097	6,059	1,589
Other ⁶	4,586	1,373	353	688	142	45	5,274	1,515	397
Total	22,930	6,865	1,763	3,442	709	223	26,372	7,574	1,987
Per capita ⁵	79.6	23.8	6.1	108.7	22.4	7.0	81.9	23.5	6.2
2006									
Owner occupied	20,274	5,958	2,190	3,655	801	371	23,929	6,758	2,561
Renter occupied	1,726	403	224	460	65	56	2,186	469	280
Total	21,999	6,361	2,414	4,115	866	427	26,114	7,227	2,841
Other ⁶	5,500	1,590	604	1,029	216	107	6,529	1,807	710
Total	27,499	7,951	3,018	5,144	1,082	534	32,643	9,033	3,551
Per capita ⁵	92.0	26.6	10.1	155.9	32.8	16.2	98.4	27.2	10.7

¹Includes the board foot equivalent of engineered wood.

²3/8-inch basis.

³1991 and 1997 are not strictly comparable to 2003 and 2006 due to changes in survey methodology.

⁴Adjusted upward by 5 percent to account for activities not included in study.

⁵Units.

⁶Adjusted upward by 15 percent to account for unoccupied structures, and 5 percent to account for activities not included in the study.

Sources: CMHC 2008, McKeever and Anderson 1993, USDC BC 2000 and 2009, WPC 1999 and 2005.

In 2006, on a cubic foot basis, the United States consumed 85 percent of all wood products used for residential repair & remodeling, Canada 15 percent. Structural panel consumption was the highest at 88 percent, lumber the lowest at 84 percent. Since the United States has 90 percent of the combined population of the two countries, it would indicate that the rate of wood use in Canada was higher than that in the United States.

Home owners are much more likely to invest in repair and remodeling activities than are their renter counterparts. In 2006, owner occupied housing units accounted for 69 percent of all occupied housing units in the United States and Canada. Wood use for these owner occupied residences was 92 percent of all wood used for occupied housing.

Wood Products Use Per \$1,000 of Expenditure

Wood products use per \$1,000 of constant dollar expenditure measures the relative amounts of each wood product used per unit of repair and remodeling activity. Between 2003 and 2006 the overall amounts of all wood products used per \$1,000 of constant (2005 US) increased (Table ES-4). Lumber had the greatest actual use in 2006 at nearly 135 bf per \$1,000, while nonstructural panels had the greatest increase in usage rate at 66 percent. Structural panels were intermediate in both absolute and relative usage. Usage rates are affected by many factors including the cost of materials, the cost of labor, changing construction technologies, and the mix of repair and remodeling activities undertaken.

Figure ES-2 – Wood products consumption for residential repair & remodeling in the United States and Canada, 2003 and 2006.

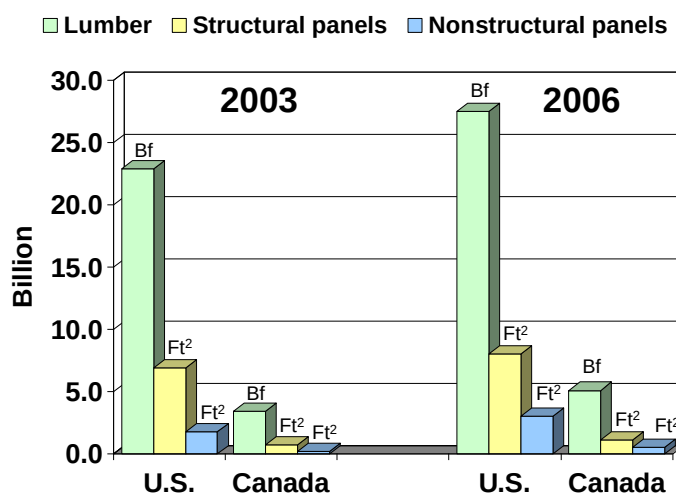


Table ES-4. Expenditures and wood products used for residential repair & remodeling in the United States and Canada, 1991, 1997, 2003 and 2006.

United States and Canada, 1991, 1997, 2003 and 2006							
Year	Expend- itures (Mil. 05 US \$)	Lumber		Structural panels (3/8-inch basis)		Nonstructural panels (3/8-inch basis)	
		Total	Use per	Total	Use per	Total	Use per
		use (Mil. bf)	\$1,000 (Bf)	use (Mil. ft ²)	\$1,000 (Ft ²)	use (Mil. ft ²)	\$1,000 (Ft ²)
<u>United States¹</u>							
1991	192,653	15,681	81.4	6,929	36.0	3,902	20.3
1997	195,291	14,680	75.2	7,428	38.0	2,850	14.6
2003	205,456	22,930	111.6	6,865	33.4	1,763	8.6
2006	214,885	27,499	128.0	7,951	37.0	3,018	14.0
<u>Canada</u>							
2003	20,344	3,442	169.2	709	34.8	223	11.0
2006	28,039	5,144	183.4	1,082	38.6	534	19.0
<u>Total</u>							
2003	225,800	26,372	116.8	7,574	33.5	1,987	8.8
2006	242,924	32,643	134.4	9,033	37.2	3,551	14.6

¹1991 and 1997 are not strictly comparable to 2003 and 2006 due to changes in survey methodology.

Sources: Table ES-2, Table ES-3.

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TABLE OF CONTENTS

PROJECT INTRODUCTION.....	3
RESEARCH SCOPE AND METHODOLOGY	3
ANALYSIS.....	4
SUMMARY OF WOOD USAGE TRENDS FROM 2003 TO 2006 IN U.S. & CANADA REPAIR & REMODELING.....	4
SUMMARY OF WOOD USAGE AND REMODELING ACTIVITIES IN THE U.S. & CANADA	6
COMPARISON OF HISTORIC WOOD USAGE IN U.S. REPAIR & REMODELING	8
COMPARISON OF U.S. OWNERS & RENTERS	9
COMPARISON OF HISTORIC WOOD USAGE IN CANADA REPAIR & REMODELING.....	14
COMPARISON OF CANADA OWNERS & RENTERS	16
CANADA REGIONAL COMPARISONS	17
COMPETITIVE MATERIALS	19
<i>STRUCTURAL FRAMING MATERIALS</i>	19
<i>SHEATHING MATERIALS & UNDERLAYMENT</i>	20
<i>OUTDOOR STRUCTURE MATERIALS</i>	21
WHERE TO GO FOR MORE INFORMATION	22
APPENDIX A.....	23
SURVEY AND PROGRAMMING METHODOLOGY	23
<i>CONSUMER PRACTICES SURVEY METHODOLOGY</i>	23
<i>PROGRAMMING METHODOLOGY</i>	23
GEOGRAPHIC SAMPLING	24
APPENDIX B.....	25
FACTORS AFFECTING CONSUMER REMODELING EXPENDITURES.....	25
<i>THE AMERICAN HOUSING SURVEY</i>	25
CHARACTERISTICS OF EXISTING HOMES.....	25
<i>HOUSEHOLD INCOME VERSUS REPAIR & REMODELING EXPENDITURES</i>	25
<i>AGE OF HOUSEHOLDER VERSUS REPAIR & REMODELING EXPENDITURES</i>	27
APPENDIX C	27
DATA FILES FOR U.S. AND CANADA CONSUMER PRACTICE TABULATIONS	27

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PROJECT INTRODUCTION

The repair and remodeling (R&R) of residential structures and properties in the U.S. and Canada is a major component of demand for softwood products and continues to represent a growing market for forest products. The Wood Products Council (WPC) desired to conduct a study of the U.S. and Canadian residential construction markets for lumber and wood products to assess market changes and to uncover areas for potential softwood lumber growth through promotional activities. The WPC commissioned the NAHB Research Center (Research Center) to assemble data for residential repair and remodeling activities that were conducted during 2006 which would be comparable to the Wood Products Council-sponsored studies of 1997 and 2003.

The primary data source for the current study is the Research Center's *Annual Consumer Practices Survey*, a study of product and materials purchased for home repair and remodeling in the U.S. and Canada for occupied homes. The Annual Consumer Practices Survey gathered data from about 56,000 U.S. and 7,000 Canadian households during early 2007. The categories of purchases for repair and remodeling include structural assemblies (floors, walls, and roofs), interior millwork and moldings, exterior finishes, fenestration (doors and windows), and exterior structures (decks, porches, docks/piers, and walkways). This study did not include expenditures for the repair or remodeling of unoccupied residential properties, such as vacant rental homes, homes vacant and awaiting sale, and vacation homes. These unoccupied properties represent about 15 percent of the entire housing stock in these two countries. Also excluded from this study were wood product purchases for projects not becoming part of the house, detached building, or property including wood used for concrete forming, scaffolding, or other temporary structures. It's estimated that this study captured approximately 80 percent of all wood products used for residential R&R in 2006.

The tables contained in the text of this report are based on detailed tabulations found in Appendix C.

RESEARCH SCOPE AND METHODOLOGY

The current study provides a comprehensive update and, to the degree possible, a comparison of wood products used by consumers in the repair and remodeling of their homes in 2003 and 2006. We have elected to omit comparing 1997 data due to some major changes in the questionnaire, sampling procedures, and programming methodology that limits the comparability between the 1997 study and more recent studies.

The primary data gathering method for the current study was a web-based survey of about 63,000 U.S. and Canadian households using a nationally representative sample purchased from Survey Sampling International, Inc. The Research Center weighted individual responses to assure the sample closely matches national population characteristics by income and age, two characteristics found to be closely associated with volume and type of remodeling expenditures, in order to assure proper demographic representation of the tabulations. The basis for balancing the sample was the profile of American households in the American Housing Survey, conducted every two years by the U.S. Bureau of the Census for the U.S. Department of Housing and Urban Development (HUD). Additionally, the Research Center employs another weighting process that provides for geographic balancing on both renter- and owner-occupied households at the state and province levels. More details on research methodology can be found in Appendix A.

ANALYSIS

SUMMARY OF WOOD USAGE TRENDS FROM 2003 TO 2006 IN U.S. & CANADA REPAIR & REMODELING

The use of wood in the U.S. and Canada for the repair and remodeling (R&R) of existing residential structures and properties continues to grow. Between 2003 and 2006, the volume of dimension lumber (softwood & hardwood) and engineered wood in this market grew from about 21.0 billion board feet (BF) to about 25.8 billion, a 24 percent increase (Table 1). Softwood lumber use grew from 17.6 to 20.3 billion BF during this period, or about 15 percent. The volumes of structural and nonstructural wood panels used also increased during this period from about 7.7 billion square feet (SF) to about 10.0 on a 3/8-inch basis, a 30 percent increase. About two-thirds of all panels used in 2006 for residential R&R were structural panels (OSB and softwood plywood), and the remaining were industrial panels (particleboard, MDF, hardboard, and interior plywood). While structural panel use increased by one-third during this period, the nonstructural panel use grew by nearly two-thirds — primarily attributable to millwork where growth in the kitchen cabinet market created an increase in demand for cabinet box materials.

While the use of wood in residential repair and remodeling grew in most categories between 2003 and 2006, growth was among the highest in hardwood lumber products. Solid hardwood lumber volumes grew from 3.3 to 5.4 billion BF, or about 64 percent. Additionally, hardwood plywood grew from 265 to 652 million square feet (3/8-inch basis). Much of the growth in the use of hardwood plywood was a result of the increased popularity of hardwood flooring and the growth of the solid hardwood cabinet market. Engineered wood products, while not as large in volume as other wood products, experienced large share increases as consumers became more comfortable with these non-traditional materials.

TABLE 1. U.S. & Canadian Repair and Remodeling Market, 2003 and 2006.

	2003	2006	CHANGE
FRAMING			
Lumber and Beams - Softwood, MMBF	14,564	17,154	18%
Engineered Wood, MMBF	172	344	100%
Lumber and Eng. Lumber Subtotal, MMBF	14,736	17,498	19%
SHEATHING			
Plywood - Softwood, MMSF 3/8"	3,686	4,542	23%
OSB, MMSF 3/8"	1,410	1,858	32%
Structural Panel Subtotal, MMSF 3/8"	5,096	6,399	26%
Nonstructural Panel, MMSF 3/8"	85¹	133	56%
Sheathing Subtotal, MMSF 3/8"	5,181	6,532	26%
MILLWORK			
Lumber- Softwood, MMBF	3,060	3,185	4%
Lumber - Hardwood, MMBF	3,302	5,431	64%
Lumber Subtotal, MMBF	6,362	8,616	35%
Plywood - Softwood, MMSF 3/8"	918	742	-19%
OSB, MMSF 3/8"	45	86	88%
Structural Panel Subtotal, MMSF 3/8"	964	828	-14%
Plywood - Hardwood, MMSF 3/8"	254	652	157%
Other Nonstructural Panel, MMSF 3/8"	1,335	2,056	54%
Nonstructural Panel Subtotal, MMSF 3/8"	1,589	2,708	70%
Millwork Panel Subtotal, MMSF 3/8"	2,553	3,536	38%
SUMMARY OF ALL USE			
Lumber - Softwood, MMBF	17,623	20,339	15%
Lumber - Hardwood, MMBF	3,302	5,431	64%
Engineered Wood, MMBF	172	344	100%
Total Lumber and Eng. Wood, MMBF	21,097	26,114	24%
Plywood - Softwood, MMSF 3/8"	4,604	5,283	15%
OSB, MMSF 3/8"	1,456	1,943	34%
Total Structural Panel, MMSF 3/8"	6,059	7,227	19%
Plywood - Hardwood, MMSF 3/8"	254	652	157%
Other Nonstructural Panel, MMSF 3/8"	1,420	2,189	54%
Total Nonstructural Panel, MMSF 3/8"	1,675	2,841	70%

¹Revised.

SUMMARY OF WOOD USAGE AND REMODELING ACTIVITIES IN THE U.S. & CANADA

In 2006, U.S. households consumed 22.0 billion BF of softwood and hardwood dimension lumber and engineered wood for home repair and remodeling activities, while Canadian households used about 4.1 billion BF (Table 2). While the occupied U.S. housing stock comprises about 90 percent of the combined U.S. and Canadian housing stock, U.S. lumber use for R&R activities is only about 84 percent of the total lumber used. This suggests that the average Canadian household uses somewhat more lumber in R&R than its U.S. counterpart. This ratio holds true for lumber used for both structural applications and for millwork. Also, Canadian households use hardwood lumber in higher proportions than do U.S. households for millwork, largely for hardwood floors.

The U.S. demand for wood-based panels in repair and remodeling comprised about 87 percent of the total R&R demand for wood panels. Overall, softwood plywood accounted for nearly three-fourths of the structural panels used in both the U.S. and Canada, and OSB the remainder. This trend runs counter to panel purchases for new house construction, where OSB dominates. While softwood plywood market shares in the U.S. and Canada are roughly equal, OSB usage in the United States is 28 percent compared to 22 percent in Canada.

TABLE 2. U.S. & Canadian Repair & Remodeling Market, 2006.

	U.S.	CANADA	TOTAL
FRAMING			
Lumber and Beams - Softwood, MMBF	14,460	2,694	17,154
Engineered Wood, MMBF	283	61	344
Lumber and Eng. Lumber Subtotal, MMBF	14,743	2,755	17,498
SHEATHING			
Plywood - Softwood, MMSF 3/8"	3,899	643	4,542
OSB, MMSF 3/8"	1,668	190	1,858
Structural Panel Subtotal, MMSF 3/8"	5,566	833	6,399
Nonstructural Panel, MMSF 3/8"	105	28	133
Sheathing Subtotal, MMSF 3/8"	5,671	861	6,532
MILLWORK			
Lumber - Softwood, MMBF	2,882	303	3,185
Lumber - Hardwood, MMBF	4,374	1,057	5,431
Lumber Subtotal, MMBF	7,256	1,360	8,616
Plywood - Softwood, MMSF 3/8"	709	33	742
OSB, MMSF 3/8"	85	0	86
Structural Panel Subtotal, MMSF 3/8"	795	33	828
Plywood - Hardwood, MMSF 3/8"	545	107	652
Other Nonstructural Panel, MMSF 3/8"	1,764	292	2,056
Nonstructural Panel Subtotal, MMSF 3/8"	2,309	399	2,708
Millwork Panel Subtotal, MMSF 3/8"	3,104	432	3,536
SUMMARY OF ALL USE			
Lumber - Softwood, MMBF	17,342	2,997	20,339
Lumber - Hardwood, MMBF	4,374	1,057	5,431
Engineered Wood, MMBF	283	61	344
Total Lumber and Eng. Wood, MMBF	21,999	4,115	26,114
Plywood - Softwood, MMSF 3/8"	4,608	676	5,283
OSB, MMSF 3/8"	1,753	190	1,943
Total Structural Panel, MMSF 3/8"	6,361	866	7,227
Plywood - Hardwood, MMSF 3/8"	545	107	652
Other Nonstructural Panel, MMSF 3/8"	1,869	320	2,189
Total Nonstructural Panel, MMSF 3/8"	2,414	427	2,841

COMPARISON OF US AND CANADA MAJOR REMODELING ACTIVITIES

The type of major remodeling activities undertaken by households drives wood products consumption. Major remodeling projects are defined as either Additions (adding new living space, garages, or outbuildings) or Alterations (converting existing non-living space to living space). Just as Canadian households used more wood per household than their American counterparts, Canadian households are also more likely to undertake major remodeling projects than U.S. households. In 2006, Canadian households undertook nearly 2.7 million major addition or alteration projects, or about 21 percent of the entire occupied housing stock (Table 3). U.S. households undertook about 12.6 million additions or alterations, or about 11 percent of the occupied housing stock.

The character of U.S. and Canadian remodeling projects also differ. One-fourth of major Canadian remodeling activities are reported as Additions, while one-third of major U.S. remodeling activities are Additions. Ten percent of all major U.S. remodeling activities are reported as attached rooms or garages while only five percent of all major Canadian activities are attached structures. U.S. households are about three times more likely to convert a garage into living space than Canadian households. In Canada, however, 26 percent of major remodeling projects involve finishing basements, while in the U.S. just 11 percent of additions and alterations finishing basements. This difference is due in part to the fact that houses in Canada are more likely to have basements than those in the U.S.

TABLE 3. Major Additions & Alterations, 2006.

	U.S.		CANADA	
	HOUSEHOLDS ¹	SHARE	HOUSEHOLDS ¹	SHARE
ADDITIONS²				
Room or rooms that are heated	1,003	8%	117	4%
Attached garage	234	2%	33	1%
Detached garage	408	3%	88	3%
Carport	158	1%	16	1%
Dormer in the roof	117	1%	16	1%
Porch	790	6%	102	4%
Storage shed, workshop, barn, etc.	992	8%	156	6%
Other	598	5%	70	3%
Not reported ⁴	52	0%	8	0%
Total Addition	4,352	35%	606	23%
ALTERATIONS³				
Basement	1,333	11%	681	26%
Attached garage	348	3%	29	1%
Detached garage	129	1%	15	1%
Carport	186	1%	15	1%
Attic	496	4%	78	3%
Porch	688	5%	80	3%
Shed	156	1%	39	1%
Add, remove, or relocate interior walls	2,441	19%	674	25%
Other	1,541	12%	319	12%
Not reported ⁴	921	7%	113	4%
Total Alterations	8,238	65%	2,044	77%
Total Additions & Alterations	12,590	100%	2,650	100%

¹Data in thousands.

²Adding space under roof.

³Converting to finished living space.

⁴Indicates that an addition/alteration was performed but did not specify the type of work performed.

TRENDS IN WOOD USE IN U.S. REPAIR & REMODELING

Between 2003 and 2006, the use of softwood lumber for residential repair and remodeling increased by 12 percent overall in the U.S., from 15.4 to 17.3 billion BF (Table 4). The increase in softwood lumber use was due largely to growth in the construction of outdoor structures such as decks, porches, and fences. However, a decline in softwood lumber used in millwork helped moderate this gain. On the other hand, hardwood lumber use increased by 1.6 billion BF, from 2.8 to 4.4 billion BF. This 59 percent increase was driven by the increased popularity of wood flooring and kitchen cabinets. The use of engineered wood products nearly doubled between 2003 and 2006, but still remains a small proportion of total wood use.

Structural panel use increased by 16 percent between 2003 and 2006. OSB grew at a faster rate than softwood plywood, indicating that OSB continues to gain market share at the expense of softwood plywood. The shift in market share to OSB is partially due to greater acceptance and awareness by consumers of this product.

TABLE 4. U.S. Repair & Remodeling Market, 2003 & 2006.

	2003	2006	CHANGE
FRAMING			
Lumber and Beams - Softwood, MMBF	12,677	14,460	14%
Engineered Wood, MMBF	153	283	85%
Lumber and Eng. Lumber Subtotal, MMBF	12,830	14,743	15%
SHEATHING			
Plywood - Softwood, MMSF 3/8"	3,323	3,899	17%
OSB, MMSF 3/8"	1,266	1,668	32%
Structural Panel Subtotal, MMSF 3/8"	4,589	5,566	21%
Nonstructural Panel, MMSF 3/8"	70¹	105	50%
Sheathing Subtotal, MMSF 3/8"	4,659	5,671	22%
MILLWORK			
Lumber - Softwood, MMBF	2,760	2,882	4%
Lumber - Hardwood, MMBF	2,754	4,374	59%
Lumber Subtotal, MMBF	5,514	7,256	32%
Plywood - Softwood, MMSF 3/8"	858	709	-17%
OSB, MMSF 3/8"	44	85	92%
Structural Panel Subtotal, MMSF 3/8"	903	795	-12%
Plywood - Hardwood, MMSF 3/8"	238	545	130%
Other Nonstructural Panel, MMSF 3/8"	1,173	1,764	50%
Nonstructural Panel Subtotal, MMSF 3/8"	1,411	2,309	64%
Millwork Panel Subtotal, MMSF 3/8"	2,314	3,104	34%
SUMMARY OF ALL USE			
Lumber - Softwood, MMBF	15,437	17,342	12%
Lumber - Hardwood, MMBF	2,754	4,374	59%
Engineered Wood, MMBF	153	283	85%
Total Lumber and Eng. Wood, MMBF	18,344	21,999	20%
Plywood - Softwood, MMSF 3/8"	4,182	4,608	10%
OSB, MMSF 3/8"	1,310	1,753	34%
Total Structural Panel, MMSF 3/8"	5,492	6,361	16%
Plywood - Hardwood, MMSF 3/8"	238	545	130%
Other Nonstructural Panel, MMSF 3/8"	1,243	1,869	50%
Total Nonstructural Panel, MMSF 3/8"	1,481	2,414	63%

¹Revised.

COMPARISON OF U.S. OWNERS & RENTERS

According to the U.S. Census' 2006 American Communities Survey, about 67 percent of all U.S. occupied housing units in 2006 were owner-occupied. The remaining houses are considered to be renter-occupied. Unoccupied and other forms of housing are excluded from this study. Capturing owner-occupied household remodeling purchases is straightforward—this information is gathered directly from householders. Obtaining information on renter-occupied household purchases is somewhat more difficult. The Consumer Practices Survey asks the heads of renter-occupied households to describe any repair, remodeling, or maintenance activities undertaken in their living units or on the exteriors of their buildings during the study year—including those that they made and those made by the property owners or manager. Since expenditures on rental properties often occur while the property is vacant, this study asked renters that took occupancy in 2006 to identify any improvements or repairs that occurred while the home was vacant *immediately prior* to their taking occupancy.

Overall, this study indicates that U.S. owner-occupied households use more than 90 percent of all wood materials for R&R projects compared to materials installed on renter-occupied properties. While we expect this study misses a significant amount of wood purchases by property owners while rental units are vacant, we believe that the disproportionately low figures on wood usage for rental properties are primarily reflective of other fundamental reasons. First, a large share of rental units are apartments, which are less likely to have improvements that use a large amount of structural wood materials, such as additions, detached buildings, the finishing of unfinished attic and basement space, and interior restructuring. Secondly, rental unit owners focus more on upkeep and repairs and are much less likely to undertake discretionary upgrades as are owner-occupied households. While Census data show rental-occupied spending at about 22 percent of total R&R spending, there is a much larger labor component in rental unit spending (ie. fewer do-it-yourselfers) which leads to believe that total wood purchases will be substantially less than 22 percent.

Table 5 compares U.S. owner- and renter-occupied household use of wood products for remodeling. About 94 percent of all structural lumber and panels are consumed by owner-occupied households—consistent with the assertion that fewer structural changes are made to apartments—but about 88 percent of lumber used in millwork (siding, doors, windows, interior molding, etc.) is purchased by owner-occupied households.

TABLE 5. U.S. Owner vs Renter-Occupied Repair & Remodeling Market, 2006.

	OWNER	RENTER	U.S.
FRAMING			
Lumber and Beams - Softwood, MMBF	13,629	831	14,460
Engineered Wood, MMBF	269	14	283
Lumber and Eng. Lumber Subtotal, MMBF	13,898	846	14,743
SHEATHING			
Plywood - Softwood, MMSF 3/8"	3,670	229	3,899
OSB, MMSF 3/8"	1,593	74	1,668
Structural Panel Subtotal, MMSF 3/8"	5,263	303	5,566
Nonstructural Panel, MMSF 3/8"	84	20	105
Sheathing Subtotal, MMSF 3/8"	5,348	323	5,671
MILLWORK			
Lumber- Softwood, MMBF	2,512	370	2,882
Lumber - Hardwood, MMBF	3,864	510	4,374
Lumber Subtotal, MMBF	6,376	880	7,256
Plywood - Softwood, MMSF 3/8"	609	100	709
OSB, MMSF 3/8"	85	0	85
Structural Panel Subtotal, MMSF 3/8"	694	100	795
Plywood - Hardwood, MMSF 3/8"	503	43	545
Other Nonstructural Panel, MMSF 3/8"	1,603	161	1,764
Nonstructural Panel Subtotal, MMSF 3/8"	2,106	204	2,309
Millwork Panel Subtotal, MMSF 3/8"	2,800	304	3,104
SUMMARY OF ALL USE			
Lumber - Softwood, MMBF	16,141	1,201	17,342
Lumber - Hardwood, MMBF	3,864	510	4,374
Engineered Wood, MMBF	269	14	283
Total Lumber and Eng. Wood, MMBF	20,274	1,726	21,999
Plywood - Softwood, MMSF 3/8"	4,279	329	4,608
OSB, MMSF 3/8"	1,679	74	1,753
Total Structural Panel, MMSF 3/8"	5,958	403	6,361
Plywood - Hardwood, MMSF 3/8"	503	43	545
Other Nonstructural Panel, MMSF 3/8"	1,687	181	1,869
Total Nonstructural Panel, MMSF 3/8"	2,190	224	2,414

U.S. REGIONAL COMPARISONS

Households in the South region used more wood products overall than any other region with the exception of engineered wood, which was led by the West (Table 6). Overall, the South used 37 percent of all structural panels and 40 percent of all lumber in the U.S. Second overall and in most individual categories was the Midwest, showing 22 percent of the lumber and structural panel used in 2006. Following closely behind the Midwest was the West, and the Northeast finished a distant fourth in overall wood purchases in this market sector.

A clear preference for OSB was evident in the Midwest, with its OSB usage representing more than 31 percent of the national total for this market sector. Conversely, it had the lowest engineered lumber usage rate (19%) among the four regions.

In all four regions, hardwood lumber was preferred over softwood in total millwork volume. This represents a departure from 2003, where softwood usage in millwork was nearly equal to hardwood (Table 4).

TABLE 6. U.S. Repair & Remodeling Market by Region, 2006.

	NORTHEAST	MIDWEST	SOUTH	WEST	U.S.
FRAMING					
Lumber and Beams - Softwood, MMBF	2,382	3,310	5,946	2,822	14,460
Engineered Wood, MMBF	62	55	58	108	283
Lumber and Eng. Lumber Subtotal, MMBF	2,445	3,364	6,004	2,930	14,743
<i>Regional Share</i>	17%	23%	41%	20%	100%
SHEATHING					
Plywood - Softwood, MMSF 3/8"	786	749	1,582	782	3,899
OSB, MMSF 3/8"	215	528	462	463	1,668
Structural Panel Subtotal, MMSF 3/8"	1,001	1,276	2,044	1,245	5,566
Nonstructural Panel, MMSF 3/8"	17	18	42	28	105
Sheathing Subtotal, MMSF 3/8"	1,018	1,294	2,086	1,273	5,671
<i>Regional Share</i>	18%	23%	37%	22%	100%
MILLWORK					
Lumber- Softwood, MMBF	601	631	1,113	537	2,882
Lumber - Hardwood, MMBF	1,040	791	1,729	814	4,374
Lumber Subtotal, MMBF	1,640	1,423	2,842	1,351	7,256
<i>Regional Share</i>	23%	20%	39%	19%	100%
Plywood - Softwood, MMSF 3/8"	99	130	272	209	709
OSB, MMSF 3/8"	13	7	50	16	85
Structural Panel Subtotal, MMSF 3/8"	111	137	322	225	795
<i>Regional Share</i>	14%	17%	41%	28%	100%
Plywood - Hardwood, MMSF 3/8"	114	117	227	87	545
Other Nonstructural Panel, MMSF 3/8"	372	443	554	395	1,764
Nonstructural Panel Subtotal, MMSF 3/8"	487	560	781	482	2,309
<i>Regional Share</i>	21%	24%	34%	21%	100%
Millwork Panel Subtotal, MMSF 3/8"	598	697	1,103	707	3,104
<i>Regional Share</i>	19%	22%	36%	23%	100%
SUMMARY OF ALL USE					
Lumber - Softwood, MMBF	2,983	3,941	7,059	3,359	17,342
<i>Regional Share</i>	17%	23%	41%	19%	100%
Lumber - Hardwood, MMBF	1,040	791	1,729	814	4,374
<i>Regional Share</i>	24%	18%	40%	19%	100%
Engineered Wood, MMBF	62	55	58	108	283
<i>Regional Share</i>	22%	19%	20%	38%	100%
Total Lumber and Eng. Wood, MMBF	4,085	4,787	8,846	4,281	21,999
<i>Regional Share</i>	19%	22%	40%	19%	100%
Plywood - Softwood, MMSF 3/8"	885	878	1,854	991	4,608
OSB, MMSF 3/8"	228	535	512	478	1,753
Total Structural Panel, MMSF 3/8"	1,112	1,413	2,366	1,469	6,361
<i>Regional Share</i>	17%	22%	37%	23%	100%
Plywood - Hardwood, MMSF 3/8"	114	117	227	87	545
Other Nonstructural Panel, MMSF 3/8"	390	460	596	423	1,869
Total Nonstructural Panel, MMSF 3/8"	504	578	822	510	2,414
<i>Regional Share</i>	21%	24%	34%	21%	100%

TRENDS IN WOOD USE IN CANADA REPAIR & REMODELING

As with the U.S., the Canadian residential repair and remodeling market also experienced substantial gains in the use of lumber and wood products. While the U.S. market saw approximately a 12 percent gain in the use of softwood lumber, the Canadian market saw a 37 percent gain (Table 7). A comparison between the 2003 and 2006 studies shows that the Canadian volume of treated lumber purchased for outdoor structures increased only moderately, while non-treated lumber for additions, detached buildings, and interior alterations represented the bulk of the growth. Millwork was also important in the growth of lumber use in Canada. Hardwood lumber purchases increased by 93 percent over the three-year period. Hardwood cabinets and flooring purchases accounted for most of the gain. Conversely, minimal growth was seen in the softwood lumber millwork category (doors, windows, stairways, trim, and moldings).

Between 2003 and 2006, structural panel sheathing use increased by 65 percent, much more than the 45 percent increase for framing lumber.

A partial explanation of the higher growth in Canadian remodeling purchases of wood lie in the understanding of the relationship between R&R expenditures and home sales. Just prior to the sale of an existing home, homeowners are likely to spend money on repairs and the purchase of home finishes preparing the home to sell. Further, immediately after the sale of a new home, the new homeowner has a high likelihood of conducting a major remodeling project to create a living environment that suits his or her individual needs best. Thus, the level of remodeling activity tends to get a boost from new and existing home purchases. The U.S. existing and new home markets saw a major decline in 2006 while the Canadian home markets continued to increase. As expected, the U.S. and Canadian R&R purchases were influenced by their home sales markets.

TABLE 7. Canadian Repair & Remodeling Market, 2003 & 2006.

	2003	2006	CHANGE
FRAMING			
Lumber and Beams - Softwood, MMBF	1,887	2,694	43%
Engineered Wood, MMBF	19	61	224%
Lumber and Eng. Lumber Subtotal, MMBF	1,906	2,755	45%
SHEATHING			
Plywood - Softwood, MMSF 3/8"	362	643	78%
OSB, MMSF 3/8"	144	190	32%
Structural Panel Subtotal, MMSF 3/8"	506	833	65%
Nonstructural Panel, MMSF 3/8"	15¹	28	81%
Sheathing Subtotal, MMSF 3/8"	522	861	65%
MILLWORK			
Lumber- Softwood, MMBF	299	303	1%
Lumber - Hardwood, MMBF	548	1,057	93%
Lumber Subtotal, MMBF	848	1,360	60%
Plywood - Softwood, MMSF 3/8"	60	33	-45%
OSB, MMSF 3/8"	1	0	-73%
Structural Panel Subtotal, MMSF 3/8"	61	33	-46%
Plywood - Hardwood, MMSF 3/8"	17	107	539%
Other Nonstructural Panel, MMSF 3/8"	162	292	80%
Nonstructural Panel Subtotal, MMSF 3/8"	179	399	123%
Millwork Panel Subtotal, MMSF 3/8"	239	432	80%
SUMMARY OF ALL USE			
Lumber - Softwood, MMBF	2,186	2,997	37%
Lumber - Hardwood, MMBF	548	1,057	93%
Engineered Wood, MMBF	19	61	224%
Total Lumber and Eng. Wood, MMBF	2,753	4,115	49%
Plywood - Softwood, MMSF 3/8"	422	676	60%
OSB, MMSF 3/8"	145	190	31%
Total Structural Panel, MMSF 3/8"	567	866	53%
Plywood - Hardwood, MMSF 3/8"	17	107	539%
Other Nonstructural Panel, MMSF 3/8"	177	320	80%
Total Nonstructural Panel, MMSF 3/8"	194	427	120%

¹Revised.

COMPARISON OF CANADA OWNERS & RENTERS

According to the Canadian Housing and Mortgage Corporation (CMHC), approximately 66 percent of all occupied Canadian houses in 2006 were occupied by their owners—a percentage virtually identical to the United States. As in the U.S., owner-occupied Canadian households purchase most of the wood products for R&R projects. Below is a comparison of Canadian owner- and renter-occupied household usage of wood products for remodeling. About 91 percent of all structural lumber was consumed by owner-occupied households in 2006, as was about 85 percent of lumber used for millwork (siding, doors, windows, interior molding, etc.) (Table 8). These comparisons indicate that Canadian and U.S. household purchase rates among rental and owners are similar.

TABLE 8. Canadian Owner vs Renter-Occupied Repair & Remodeling Market, 2006.

	OWNER	RENTER	CANADA
FRAMING			
Lumber and Beams - Softwood, MMBF	2,447	247	2,694
Engineered Wood, MMBF	55	6	61
Lumber and Eng. Lumber Subtotal, MMBF	2,502	253	2,755
SHEATHING			
Plywood - Softwood, MMSF 3/8"	600	43	643
OSB, MMSF 3/8"	179	11	190
Structural Panel Subtotal, MMSF 3/8"	779	54	833
Nonstructural Panel, MMSF 3/8"	25	3	28
Sheathing Subtotal, MMSF 3/8"	804	57	861
MILLWORK			
Lumber- Softwood, MMBF	266	37	303
Lumber - Hardwood, MMBF	887	170	1,057
Lumber Subtotal, MMBF	1,153	207	1,360
Plywood - Softwood, MMSF 3/8"	21	11	33
OSB, MMSF 3/8"	0	0	0
Structural Panel Subtotal, MMSF 3/8"	22	11	33
Plywood - Hardwood, MMSF 3/8"	93	14	107
Other Nonstructural Panel, MMSF 3/8"	252	40	292
Nonstructural Panel Subtotal, MMSF 3/8"	345	54	399
Millwork Panel Subtotal, MMSF 3/8"	367	65	432
SUMMARY OF ALL USE			
Lumber - Softwood, MMBF	2,713	283	2,997
Lumber - Hardwood, MMBF	887	170	1,057
Engineered Wood, MMBF	55	6	61
Total Lumber and Eng. Wood, MMBF	3,655	460	4,115
Plywood - Softwood, MMSF 3/8"	621	54	676
OSB, MMSF 3/8"	179	11	190
Total Structural Panel, MMSF 3/8"	801	65	866
Plywood - Hardwood, MMSF 3/8"	93	14	107
Other Nonstructural Panel, MMSF 3/8"	278	42	320
Total Nonstructural Panel, MMSF 3/8"	371	56	427

CANADA REGIONAL COMPARISONS

Comparisons between owner-occupied households in East and West regions of Canada presented in Table 9. Data for multifamily purchases between East and West were not developed due to inadequate sample sizes in this study. Owner-occupied households in Eastern Canada (Ontario, Quebec, and Atlantic provinces) use substantially more wood products in R&R than do households in Western Canada (Prairie Provinces and British Columbia). This is largely due to the larger population of Eastern Canada. Approximately 68 percent of Canadian owner-occupied households are located in Eastern Canada while 32 percent are in Western Canada.

Average usage rates of structural lumber for occupied households are proportional to the populations of East and West Canada. East Canada has about 69 percent of structural lumber purchases, while West Canada has 31 percent. However, East Canada accounts for about 75 percent of Canadian R&R lumber usage in millwork. This is due primarily to higher usage rates of hardwood flooring and interior products (hardwood cabinets) in East Canada.

Only a small volume of engineered structural framing lumber is used in the Canadian R&R market. As in the U.S., plywood also dominates structural sheathing usage in both regions and comprises 78 percent of total structural sheathing purchases by owner-occupied households and OSB accounts for 22 percent.

TABLE 9. Canadian Owner-Occupied Repair & Remodeling Market by Region, 2006.

	EAST	WEST	CANADA
FRAMING			
Lumber and Beams - Softwood, MMBF	1,677	770	2,447
Engineered Wood, MMBF	43	11	55
Lumber and Eng. Lumber Subtotal, MMBF	1,720	782	2,502
<i>Regional Share</i>	69%	31%	100%
SHEATHING			
Plywood - Softwood, MMSF 3/8"	469	131	600
OSB, MMSF 3/8"	113	66	179
Structural Panel Subtotal, MMSF 3/8"	582	197	779
Nonstructural Panel, MMSF 3/8"	17	9	25
Sheathing Subtotal, MMSF 3/8"	599	205	804
<i>Regional Share</i>	74%	26%	100%
MILLWORK			
Lumber- Softwood, MMBF	177	89	266
Lumber - Hardwood, MMBF	687	200	887
Lumber Subtotal, MMBF	863	290	1,153
<i>Regional Share</i>	75%	25%	100%
Plywood - Softwood, MMSF 3/8"	14	7	21
OSB, MMSF 3/8"	0	0	0
Structural Panel Subtotal, MMSF 3/8"	14	7	22
<i>Regional Share</i>	66%	34%	100%
Plywood - Hardwood, MMSF 3/8"	69	24	93
Other Nonstructural Panel, MMSF 3/8"	174	78	252
Nonstructural Panel Subtotal, MMSF 3/8"	243	103	345
<i>Regional Share</i>	70%	30%	100%
Millwork Panel Subtotal, MMSF 3/8"	257	110	367
<i>Regional Share</i>	70%	30%	100%
SUMMARY OF ALL USE			
Lumber - Softwood, MMBF	1,854	860	2,713
<i>Regional Share</i>	68%	32%	100%
Lumber - Hardwood, MMBF	687	200	887
<i>Regional Share</i>	77%	23%	100%
Engineered Wood, MMBF	43	11	55
<i>Regional Share</i>	79%	21%	100%
Total Lumber and Eng. Wood, MMBF	2,583	1,072	3,655
<i>Regional Share</i>	71%	29%	100%
Plywood - Softwood, MMSF 3/8"	483	138	621
OSB, MMSF 3/8"	114	66	179
Total Structural Panel, MMSF 3/8"	597	204	801
<i>Regional Share</i>	75%	25%	100%
Plywood - Hardwood, MMSF 3/8"	69	24	93
Other Nonstructural Panel, MMSF 3/8"	191	87	278
Total Non-structural Panel, MMSF 3/8"	259	111	371
<i>Regional Share</i>	70%	30%	100%

COMPETITIVE MATERIALS

Each category of wood products competes directly with non-wood products for market share. Among structural materials, wood competes primarily with concrete and steel. In nonstructural applications, wood competes largely with polymer and composite materials. One potential avenue for increasing wood products use in residential R&R is to take share from competitive products through improvements in product design, performance, and marketing efforts. This section summarizes market share comparisons in applications where wood products and materials can gain the most from capturing greater market shares.

STRUCTURAL FRAMING MATERIALS

Wood products are highly favored in residential construction markets in the U.S. and Canada in above-grade applications, such as floors, walls, and roofs. Table 10 summarizes market shares for lumber and for its competitors expressed in BF for lumber and board foot equivalent for non-lumber materials. In 2006 lumber products captured 87 percent of the market share for all structural materials (83% lumber and 4% engineered wood). Lumber's greatest opportunity to increase market share is in the structural floor category. Concrete has a 34 percent share of the structural floor market—much of which is represented by concrete slab floors for attached and detached garages and outbuildings.

TABLE 10. Comparison of Structural Framing by Materials Type, 2006.

	U.S.	CANADA	TOTAL	SHARE
STRUCTURAL FLOORS				
Lumber and Beams - Softwood, MMBF	898	159	1,057	48%
Engineered Wood, MMBF	273	56	330	15%
Concrete, MMBF equivalent	692	59	751	34%
Steel, MMBF equivalent	50	20	69	3%
Subtotal, MMBF equivalent	1,913	294	2,207	100%
STRUCTURAL WALLS				
Lumber and Beams - Softwood, MMBF	2,376	487	2,864	94%
Engineered Wood, MMBF	10	5	15	0%
Concrete, MMBF equivalent	39	17	55	2%
Steel, MMBF equivalent	99	16	115	4%
Subtotal, MMBF equivalent	2,524	525	3,049	100%
STRUCTURAL ROOFS				
Lumber and Beams - Softwood, MMBF	3,082	353	3,435	95%
Engineered Wood, MMBF	0	0	0	0%
Concrete, MMBF equivalent	0	0	0	0%
Steel, MMBF equivalent	156	20	176	5%
Subtotal, MMBF equivalent	3,238	373	3,611	100%
TOTAL STRUCTURAL ASSEMBLIES¹				
Lumber and Beams - Softwood, MMBF	6,356	999	7,355	83%
Engineered Wood, MMBF	283	61	344	4%
Concrete, MMBF equivalent	730	76	806	9%
Steel, MMBF equivalent	304	56	360	4%
Total, MMBF equivalent	7,675	1,192	8,866	100%

¹Excludes outdoor structures and millwork.

SHEATHING MATERIALS & UNDERLAYMENT

Overall, wood sheathing products are much more common than non-wood products for structural applications for remodeling in the U.S. and Canada (Table 11). About two-thirds of floor sheathing, three-fourths of wall sheathing, and virtually all roof sheathing is wood-based. On the surface, there seems to be more opportunity for wood structural panels to take market share in floors since it has the smallest market share in this category. However, the majority of non-wood sheathing falls into the “None” category, which is largely concrete floors for garage additions—which is most suitable for parking automobiles. The primary competitor to wood in wall sheathing is insulated foam sheathing, which holds less than a 21 percent share. Advantages to using foam include ease of installation, weight, and insulating ability. Its disadvantages include its current higher cost compared to OSB, poor structural performance, and lack of nail-holding capability. A layer of foam sheathing over wood sheathing improves both the thermal performance of walls and their structural integrity. Opportunity exists for wood to gain market share as either a replacement for foam or to improve wall structural performance by promoting a two-layer foam/wood panel system.

TABLE 11. Comparison of Sheathing by Materials Type, 2006.

	U.S.	CANADA	TOTAL	SHARE
FLOOR SHEATHING & UNDERLAYMENT				
Structural Wood Panels, MMSF 3/8"	2,050	401	2,451	66%
Concrete/None, MMSF 3/8" equivalent	1,161	101	1,262	34%
Subtotal, MMSF 3/8" equivalent	3,211	502	3,713	100%
WALL SHEATHING				
Structural Wood Panels, MMSF 3/8"	1,389	231	1,620	72%
Non-structural Wood Panels, MMSF 3/8"	105	28	133	6%
Concrete/None, MMSF 3/8" equivalent	29	11	40	2%
Foam and Other, MMSF 3/8" equivalent	388	82	470	21%
Subtotal, MMSF 3/8" equivalent	1,911	352	2,263	100%
ROOF SHEATHING				
Structural Wood Panels, MMSF 3/8"	2,128	201	2,329	100%
Concrete/None, MMSF 3/8" equivalent	0	0	0	0%
Subtotal, MMSF 3/8" equivalent	2,128	201	2,329	100%
TOTAL SHEATHING				
Structural Wood Panels, MMSF 3/8"	5,566	833	6,399	77%
Non-structural Wood Panels, MMSF 3/8"	105	28	133	2%
Concrete/None, MMSF 3/8" equivalent	1,190	112	1,302	16%
Foam and Other, MMSF 3/8" equivalent	388	82	470	6%
Total, MMSF 3/8" equivalent	7,250	1,055	8,305	100%

OUTDOOR STRUCTURE MATERIALS

Another R&R application where wood products have the potential to gain market share is in outdoor structures—residential structures exposed to the elements such as porches, decks, fences, and landscape walls (Table 12). Non-wood materials have made inroads in outdoor structures in recent years due to the proliferation of plastic composite lumber, plastic fencing, and modular concrete retaining wall systems. Decks and porch surfaces and fences are among the applications with the highest share of exterior wood in the R&R market. Untreated and treated lumber accounted for 76 percent of deck surfaces, 67 percent of fences, and 50 percent of porch surfaces in 2006. Deck and porch surfaces have seen inroads by plastic composite materials in recent years. In fences, wood products have the potential to gain some share from metal and plastic. Treated wood has lost much share to concrete in landscape walls

TABLE 12. Comparison of Outdoor Structures by Materials Type, 2006.

	U.S.	CANADA	TOTAL	SHARE
DECK SURFACES				
Lumber - Regular, MMBF	192	63	255	18%
Lumber - Treated, MMBF	661	169	829	58%
Plastic and Composite, MMBF	304	46	349	24%
Subtotal, MMBF equivalent	1,156	277	1,434	100%
PORCH SURFACES				
Lumber - Regular, MMBF	111	19	131	25%
Lumber - Treated, MMBF	121	13	134	25%
Plastic and Composite, MMBF	94	14	109	21%
Stone, Brick and Concrete, MMBF equivalent	146	10	156	29%
Subtotal, MMBF equivalent	472	57	530	100%
FENCING TYPE / MATERIAL				
Wood, MMBF	1,564	217	1,781	67%
Metal, MMBF equivalent	536	58	594	22%
Plastic and Composite, MMBF	180	25	205	8%
Stone, Brick and Concrete, MMBF equivalent	68	8	76	3%
Subtotal, MMBF equivalent	2,347	308	2,656	100%
LANDSCAPE WALLS				
Wood timbers, MMBF	382	8	390	15%
Stone, Brick and Concrete, MMBF equivalent	1,970	202	2,172	85%
Subtotal, MMBF equivalent	2,353	210	2,562	100%
TOTAL OUTDOOR STRUCTURES				
Lumber/Timbers, MMBF	3,031	489	3,520	49%
Plastic and Composite, MMBF	578	85	663	9%
Metal, MMBF equivalent	536	58	594	8%
Stone, Brick and Concrete, MMBF equivalent	2,184	220	2,404	33%
Total, MMBF equivalent	6,329	852	7,181	100%

WHERE TO GO FOR MORE INFORMATION

The Research Center conducted this study for The Wood Products Council based on its Annual Consumer Practices Study (CPS). The CPS gathers and analyzes data by dividing the U.S. into 32 separate geographic areas. Data is then reported for each of the 32 separate geographic areas, the nine U.S. Census Divisions, and U.S. totals. These proprietary reports are distributed separately and can be customized upon request. For further information pertaining to these reports, please contact any of this study's authors, or visit the NAHB Research Center Web site at www.nahbrc.org.

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APPENDIX A

SURVEY AND PROGRAMMING METHODOLOGY

CONSUMER PRACTICES SURVEY METHODOLOGY

The 2006 Consumer Practices Survey questionnaire was fielded in early 2007 where U.S. and Canadian households were asked about their 2006 R&R expenditures. The questionnaire was designed to gather general demographic information of survey respondents and document the home improvement, repair, and maintenance projects undertaken on the primary residence of the respondent. These improvements may have been initiated by any party in 2006, including the survey respondent, another household member, insurance company, landlord, or property manager.

PROGRAMMING METHODOLOGY

The Consumer Practices Survey programming methodology uses the number of occupied households, incidence rates, and purchase rates to estimate total product usage for the study year. Historically, there is a moderate bias towards households undertaking remodeling activity (people are more likely to participate in the survey if they have expenditures to report), so a single adjustment is made to the incidence of purchase rates to assure the level of remodeling activity is truly representative of actual R&R expenditures. This adjustment, on average, tends to reduce the incidence rates by about 25%. The adjustment is determined by comparing the expenditures and product purchases of the reports to other industry-accepted measures, such as the U.S. Census C-50 report and other reliable industry data on specific building products purchases.

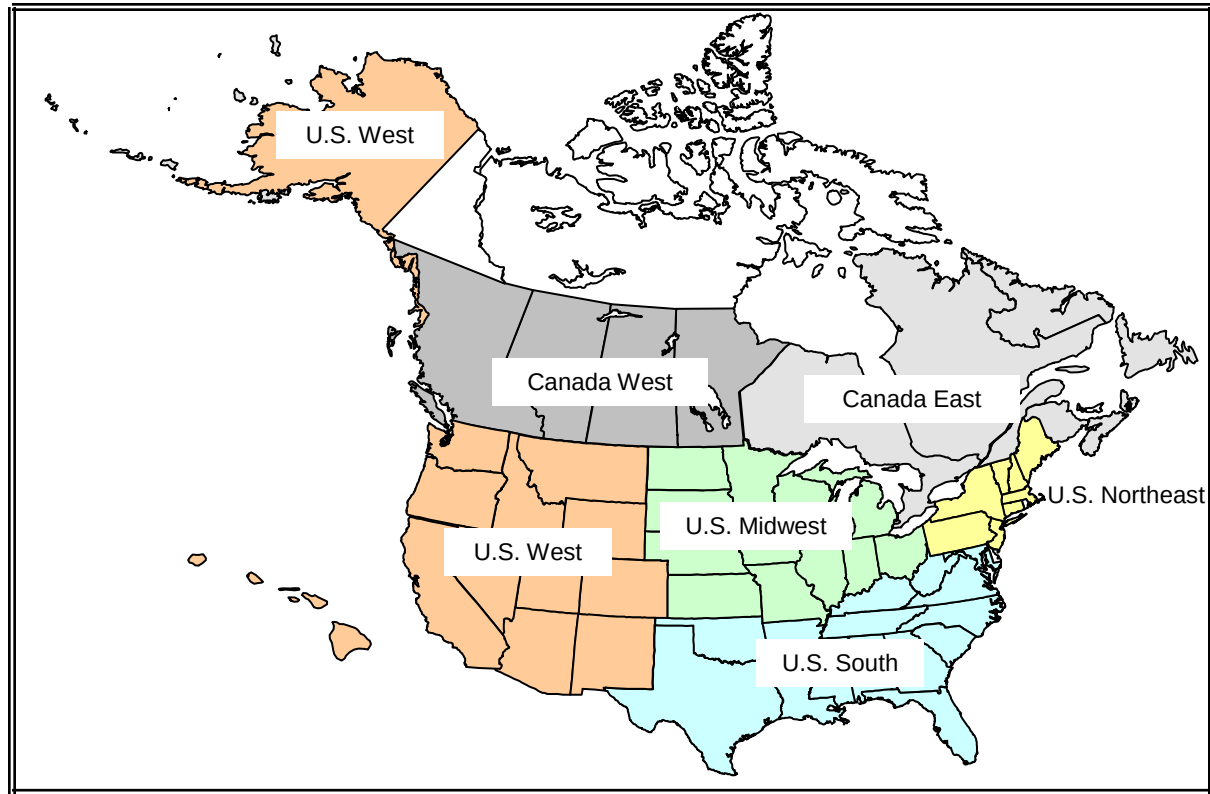
Geographic adjustments to CPS data are made by dividing the United States into 32 separate geographic areas, called State-Market Areas. Data is then reported for each of the 32 State-Market Areas, the nine U.S. Census Divisions, and U.S. totals. The nine U.S. Census Divisions data are a weighted average of the 32 State-Market Areas tabulations based on the proportion of renter- and owner-occupied households living in each State-Market Area relative to the number living in the Census Division. The U.S. total is a weighted average of the nine U.S. Census Divisions. Weights are based on the number of households in the sample.

The sample also is balanced demographically by assigning a weight to each response based on the degree to which it is over- or under-represented in the sample. This weight is obtained by comparing the CPS sample to the Census Bureau's 2006 American Housing Survey and then adjusting on income and age—factors most strongly associated with remodeling expenditure volume and type (see Figures 2 and 3 in Appendix B).

GEOGRAPHIC SAMPLING

Data for this study are divided according to U.S. census regions (Northeast, Midwest, South and West). The U.S. West includes Hawaii and Alaska. Canada is divided into East and West provinces, with Manitoba and Ontario as the dividing line. Figure 1 depicts these divisions.

Figure 1. Data Divisions for U.S. and Canada



APPENDIX B

FACTORS AFFECTING CONSUMER REMODELING EXPENDITURES

THE AMERICAN HOUSING SURVEY

One reliable public data source on U.S. housing is the American Housing Survey (AHS), conducted by the Bureau of Census for the Department of Housing and Urban Development. The AHS is actually two surveys; a national survey and a metropolitan area survey. The national survey interviews about 55,000 housing units¹ every two years. The survey returns to the same housing units on a regular basis, recording changes in characteristics, adding and deleting units when applicable. This cross-sectioning of the housing inventory provides a description of houses and households as they change over long periods of time.²

The AHS collects data on both owner- and renter-occupied households, single-family homes, apartments, mobile homes, and vacant housing units. The survey also collects detailed data on cost of housing and the availability of housing for different segments of the American public such as income, housing characteristics, housing and neighborhood quality, size of housing unit, equipment and fuels, and recent movers. National data is collected every odd-numbered year and serves as a reliable benchmark to measure the representativeness of the Consumer Practices Survey sample.

In the late 1990's, the Joint Center for Housing Studies at Harvard University conducted an analysis of the 1995 American Housing Survey (AHS) database.³ They discovered several key determinants for remodeling expenditures, including demographic factors and house characteristics. The most significant factors were found to be the income and age of the head of household.

In this section, AHS tabulations for income and age are compared to Consumer Practices Survey (CPS) tabulations. The comparability of the sample characteristics demonstrates that the CPS results are a reliable representation of consumer purchases of building materials for R&R.

CHARACTERISTICS OF EXISTING HOMES

HOUSEHOLD INCOME VERSUS REPAIR & REMODELING EXPENDITURES

Income is an important determinant of not only the amount of expenditures, but also of type of expenditures. For example, households with lower incomes are less likely to undergo discretionary remodeling projects—such as additions, major kitchen and bath remodels, and interior restructuring—but are about as likely to carry out repairs or major system replacements, such as roofing and siding as are higher income households.

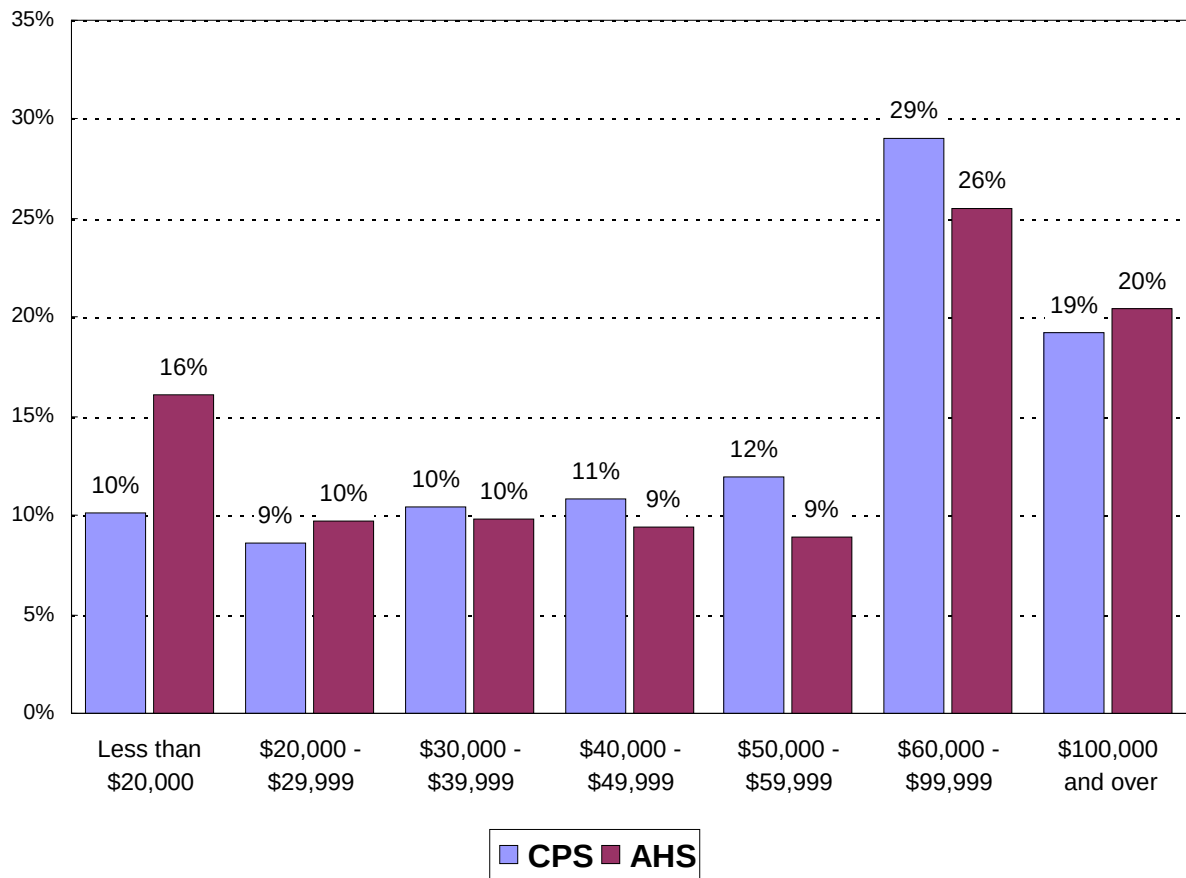
Figure 2 shows the distribution of respondents for all households (i.e., owner- and renter-occupied) by income for the AHS and CPS. This comparison reveals that, after taking into account the standard error of the estimates, only minor difference in income characteristics exist between the two survey samples.

¹ A *housing unit* is a house, apartment, group of rooms, or a single room, occupied or intended for occupancy as separate living quarters. (www.census.gov/hhes/www/housing/ahs/ahs01/appendixa.pdf, pg 9 of 30)

² <http://www.census.gov/hhes/www/housing/ahs/datacollection.html>

³ "Improving America's Housing," Joint Center for Housing Studies, Harvard University. 1999

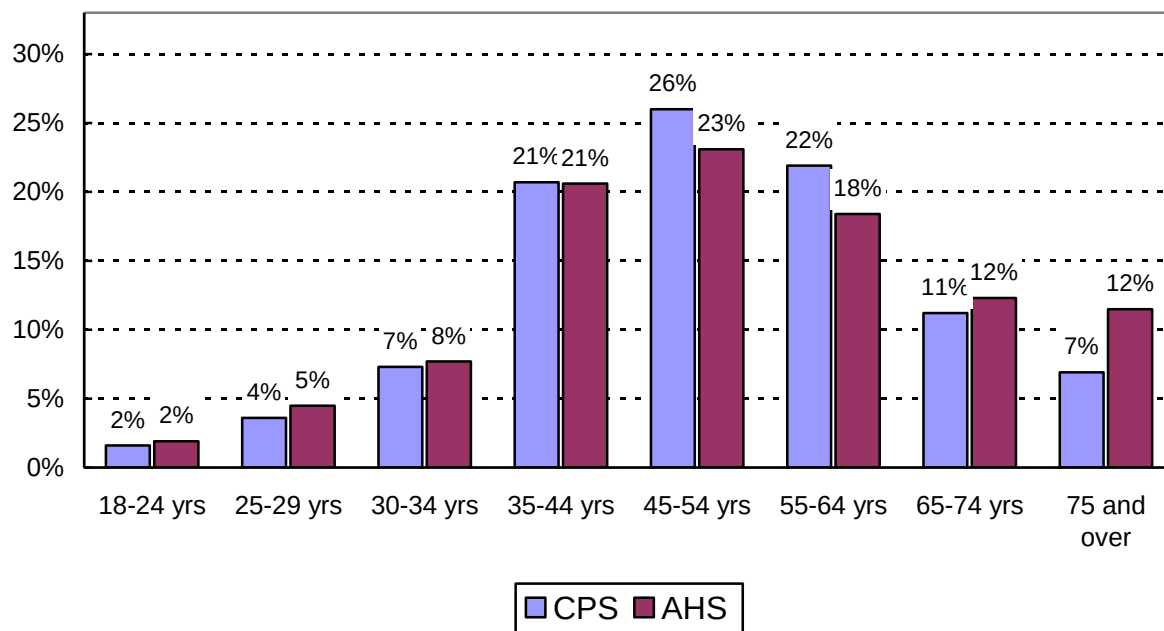
Figure 2. Distribution of respondents by household income, 2006 AHS and 2006 CPS



AGE OF HOUSEHOLDER VERSUS REPAIR & REMODELING EXPENDITURES

Another important factor in the volume and type of remodeling expenditures is the age of the head of household. Figure 3 compares the distribution of age of head of household between the CPS and AHS surveys. The result of the comparison shows that the composition of both samples correspond closely in all but one group—the 55 to 64 age group—which is common in survey research because smaller households (like the empty-nester age group) are more likely than larger households to respond to printed and web-based surveys.

Figure 3. Distribution of respondents by age of head of household, 2006 AHS and 2006 CPS



APPENDIX C

DATA FILES FOR U.S. AND CANADA CONSUMER PRACTICE TABULATIONS

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	US TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
<i>All Data in Thousands</i>															
HOUSING STOCK	13,235	18,777	29,816	15,708	77,537	7,000	7,051	12,421	8,517	34,988	20,235	25,828	42,237	24,225	112,525
TOTAL WOOD USAGE IN REPAIR AND REMODELING															
LUMBER & ENGINEERED LUMBER															
Lumber - Softwood															
Framing, BF	1,317,097	1,710,269	2,805,609	1,559,753	7,392,728	79,045	96,566	152,726	107,337	435,674	1,396,142	1,806,835	2,958,335	1,667,090	7,828,402
Boards, BF	377,599	382,273	789,740	370,817	1,920,429	52,481	73,471	84,240	76,293	286,484	430,080	455,743	873,980	447,111	2,206,913
Treated Framing, BF	920,717	1,332,312	2,556,066	990,950	5,800,045	43,537	66,889	173,811	112,434	396,670	964,254	1,399,200	2,729,877	1,103,384	6,196,716
Treated Boards, BF	132,725	183,303	347,392	63,757	727,176	9,219	9,728	28,264	6,854	54,065	141,944	193,030	375,656	70,611	781,241
Sawn Beams, BF	36,204	83,553	115,603	65,011	300,371	14,722	2,730	5,495	5,493	28,440	50,926	86,283	121,098	70,504	328,811
Logs, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Subtotal Lumber, BF	2,784,342	3,691,709	6,614,410	3,050,288	16,140,749	199,003	249,384	444,536	308,412	1,201,335	2,983,345	3,941,093	7,058,946	3,358,700	17,342,083
Engineered Lumber															
Glulam, BF	298	432	2,100	2,014	4,845	23	25	132	122	301	321	457	2,232	2,136	5,146
I-joist, BF equivalent	59,519	52,040	54,280	94,799	260,638	1,386	433	711	11,282	13,811	60,904	52,473	54,990	106,081	274,449
LVL, BF equivalent	673	1,062	728	181	2,644	56	61	46	11	174	729	1,123	773	192	2,818
Parallam™, BF equivalent	389	565	0	0	954	30	33	0	0	62	419	597	0	0	1,016
Timberstrand™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Subtotal Engineered Wood, BF equivalent	60,879	54,099	57,107	96,994	269,080	1,494	552	888	11,415	14,349	62,373	54,651	57,995	108,409	283,429
Total Lbr. & Eng. Lumber, BF equivalent	2,845,221	3,745,808	6,671,517	3,147,282	16,409,829	200,498	249,936	445,424	319,827	1,215,684	3,045,719	3,995,744	7,116,941	3,467,109	17,625,512
Hardwood lumber, BF	901,264	714,057	1,538,938	709,767	3,864,026	138,239	77,415	190,111	104,080	509,846	1,039,503	791,472	1,729,049	813,848	4,373,872
STRUCTURAL AND NONSTRUCTURAL PANELS															
Structural Panels, SF 3/8" Basis															
Softwood Plywood	840,891	820,297	1,734,183	883,514	4,278,885	43,805	58,031	119,653	107,508	328,996	884,696	878,328	1,853,835	991,022	4,607,881
Treated Plywood	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB	223,428	526,459	482,822	446,012	1,678,722	4,102	8,304	29,391	32,403	74,200	227,530	534,764	512,213	478,415	1,752,922
Total Structural Panels, SF 3/8" basis	1,064,319	1,346,756	2,217,005	1,329,526	5,957,607	47,907	66,335	149,043	139,911	403,197	1,112,226	1,413,092	2,366,048	1,469,437	6,360,804
Nonstructural Wood Panels, SF 3/8" Basis															
Hardwood Plywood	103,274	108,026	212,088	79,383	502,772	10,971	9,415	14,475	7,692	42,553	114,245	117,442	226,563	87,075	545,325
MDF	19,536	28,624	33,829	21,597	103,586	9,539	9,502	2,232	2,759	24,032	29,075	38,126	36,061	24,356	127,618
Particleboard	251,405	259,678	360,168	272,894	1,144,144	26,709	25,885	37,000	26,167	115,762	278,114	285,563	397,168	299,061	1,259,906
Hardboard	60,212	115,015	116,210	63,841	355,279	5,087	3,949	4,553	7,671	21,260	65,299	118,964	120,764	71,512	376,538
Lauan	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fiberboard	13,802	14,338	37,084	19,207	84,432	3,224	3,165	4,799	9,220	20,407	17,026	17,502	41,883	28,427	104,839
Total Non-Str'l Wood Panels, SF 3/8" basis	448,229	525,680	759,380	456,923	2,190,213	55,529	51,917	63,058	53,509	224,013	503,759	577,597	822,438	510,431	2,414,226
Total Panels, SF 3/8" basis equivalent	1,512,548	1,872,437	2,976,385	1,786,449	8,147,819	103,437	118,252	212,102	193,420	627,210	1,615,985	1,990,689	3,188,487	1,979,869	8,775,029

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
<i>All Data in Thousands</i>															
WOOD USAGE IN FLOOR SYSTEMS															
LUMBER & ENGINEERED LUMBER															
Lumber - Softwood															
Framing, BF	164,854	201,257	346,516	139,838	852,465	9,486	6,415	21,164	8,655	45,721	174,340	207,672	367,680	148,493	898,186
Boards, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Treated Framing, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Treated Boards, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Sawn Beams, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Logs, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Subtotal Lumber, BF	164,854	201,257	346,516	139,838	852,465	9,486	6,415	21,164	8,655	45,721	174,340	207,672	367,680	148,493	898,186
Engineered Lumber															
Glulam, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-joist, BF equivalent	59,102	51,436	54,280	94,799	259,617	1,354	398	711	11,282	13,744	60,456	51,834	54,990	106,081	273,361
LVL, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Subtotal Engineered Wood, BF equivalent	59,102	51,436	54,280	94,799	259,617	1,354	398	711	11,282	13,744	60,456	51,834	54,990	106,081	273,361
Total Lbr. & Eng. Lumber, BF equivalent	223,956	252,692	400,795	234,638	1,112,082	10,840	6,813	21,875	19,936	59,465	234,796	259,506	422,671	254,574	1,171,547
Concrete, BF equivalent	90,690	105,146	262,746	202,856	661,437	2,124	1,121	19,690	7,361	30,295	92,813	106,267	282,435	210,218	691,733
Steel, BF equivalent	3,602	4,946	22,402	17,048	48,000	1,085	12	93	548	1,738	4,687	4,958	22,495	17,597	49,737
Total Material, BF equivalent	318,248	362,785	685,944	454,542	1,821,519	14,049	7,946	41,657	27,846	91,498	332,297	370,731	727,601	482,389	1,913,017
STRUCTURAL AND NONSTRUCTURAL PANELS															
Structural Panels, SF 3/8" Basis															
Softwood Plywood	244,021	323,996	589,853	262,905	1,420,775	18,329	6,585	49,461	29,073	103,448	262,350	330,581	639,314	291,978	1,524,223
Treated Plywood	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB	92,332	175,135	136,016	113,557	517,040	1,009	1,185	3,830	2,617	8,641	93,341	176,319	139,846	116,175	525,681
Total Structural Panels, SF 3/8" basis	336,354	499,131	725,869	376,462	1,937,815	19,338	7,770	53,291	31,691	112,089	355,691	506,901	779,160	408,152	2,049,904
Nonstructural Wood Panels, SF 3/8" Basis															
Hardwood Plywood	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MDF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Particleboard	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hardboard	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Lauan	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fiberboard	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Panels, SF 3/8" basis equivalent	336,354	499,131	725,869	376,462	1,937,815	19,338	7,770	53,291	31,691	112,089	355,691	506,901	779,160	408,152	2,049,904
Concrete, SF 3/8" basis equivalent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Material, SF 3/8" basis equivalent	336,354	499,131	725,869	376,462	1,937,815	19,338	7,770	53,291	31,691	112,089	355,691	506,901	779,160	408,152	2,049,904

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	US TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
All Data in Thousands															
WOOD USAGE IN WALL SYSTEMS															
LUMBER & ENGINEERED LUMBER															
Lumber - Softwood															
Framing, BF	373,520	528,254	658,580	407,630	1,967,984	24,837	25,825	34,708	37,618	122,988	398,357	554,079	693,288	445,248	2,090,972
Boards, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Treated Framing, BF	11,129	16,027	27,487	20,050	74,693	471	399	1,544	983	3,396	11,600	16,426	29,030	21,033	78,089
Treated Boards, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Sawn Beams, BF	21,895	60,688	62,838	42,475	187,896	12,885	1,649	2,014	2,977	19,525	34,779	62,338	64,852	45,452	207,421
Logs, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Subtotal Lumber, BF	406,544	604,969	748,904	470,155	2,230,572	38,193	27,873	38,266	41,578	145,910	444,737	632,843	787,170	511,733	2,376,482
Engineered Lumber															
Glulam, BF	298	432	2,100	2,014	4,845	23	25	132	122	301	321	457	2,232	2,136	5,146
I-joist, BF equivalent	416	604	0	0	1,021	32	35	0	0	67	448	639	0	0	1,088
LVL, BF equivalent	673	1,062	728	181	2,644	56	61	46	11	174	729	1,123	773	192	2,818
Parallam™, BF equivalent	389	565	0	0	954	30	33	0	0	62	419	597	0	0	1,016
Timberstrand™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Subtotal Engineered Wood, BF equivalent	1,777	2,663	2,828	2,195	9,463	140	154	177	133	605	1,917	2,818	3,005	2,328	10,068
Total Lbr. & Eng. Lumber, BF equivalent	408,321	607,633	751,732	472,350	2,240,036	38,333	28,027	38,443	41,711	146,514	446,654	635,660	790,175	514,060	2,386,550
Concrete, BF equivalent	6,856	6,933	17,813	4,874	36,476	152	1,854	103	13	2,122	7,008	8,786	17,917	4,887	38,599
Steel - Exterior Walls, BF equivalent	26,073	16,467	30,840	24,970	98,350	29	354	20	3	406	26,102	16,822	30,860	24,972	98,756
Steel - Interior Walls, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Material, BF equivalent	441,250	631,033	800,385	502,193	2,374,862	38,514	30,236	38,567	41,726	149,042	479,764	661,268	838,952	543,920	2,523,904
STRUCTURAL AND NONSTRUCTURAL PANELS (Including Plywood in Box Beams)															
Structural Panels, SF 3/8" Basis															
Softwood Plywood	180,183	166,876	320,067	158,489	825,615	3,418	11,711	16,569	13,951	45,649	183,600	178,587	336,636	172,440	871,264
Treated Plywood	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB	44,729	174,429	136,330	130,135	485,623	1,011	5,987	10,576	14,055	31,629	45,739	180,416	146,907	144,190	517,252
Total Structural Panels, SF 3/8" basis	224,912	341,305	456,398	288,624	1,311,238	4,428	17,698	27,145	28,006	77,277	229,340	359,003	483,543	316,630	1,388,516
Nonstructural Wood Panels, SF 3/8" Basis															
Hardwood Plywood	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MDF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Particleboard	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hardboard	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Lauan	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fiberboard	13,802	14,338	37,084	19,207	84,432	3,224	3,165	4,799	9,220	20,407	17,026	17,502	41,883	28,427	104,839
Total Non-Str'l Wood Panels, SF 3/8" basis	13,802	14,338	37,084	19,207	84,432	3,224	3,165	4,799	9,220	20,407	17,026	17,502	41,883	28,427	104,839
Total Panels, SF 3/8" basis equivalent	238,714	355,643	493,482	307,832	1,395,670	7,652	20,863	31,944	37,226	97,685	246,366	376,505	525,425	345,058	1,493,354
Concrete, SF 3/8" basis equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Foam and Other, SF 3/8" basis equivalent	58,024	75,712	136,600	67,209	337,546	11,989	5,883	18,470	14,480	50,822	70,013	81,595	155,070	81,689	388,367
Total Material, SF 3/8" basis equivalent	296,738	431,354	630,082	375,041	1,733,215	19,641	26,746	50,413	51,706	148,506	316,379	458,101	680,495	426,747	1,881,722

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
<i>All Data in Thousands</i>															
WOOD USAGE IN ROOF SYSTEMS															
LUMBER & ENGINEERED LUMBER															
Lumber - Softwood															
Framing, BF	507,693	656,855	1,123,946	655,165	2,943,659	9,919	31,041	50,186	22,866	114,012	517,611	687,897	1,174,132	678,031	3,057,671
Boards, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Treated Framing, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Treated Boards, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Sawn Beams, BF	1,761	9,275	10,538	2,580	24,154	0	0	0	0	0	1,761	9,275	10,538	2,580	24,154
Logs, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Subtotal Lumber, BF	509,453	666,131	1,134,484	657,745	2,967,813	9,919	31,041	50,186	22,866	114,012	519,372	697,172	1,184,670	680,611	3,081,825
Engineered Lumber															
Glulam, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Subtotal Engineered Wood, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	509,453	666,131	1,134,484	657,745	2,967,813	9,919	31,041	50,186	22,866	114,012	519,372	697,172	1,184,670	680,611	3,081,825
Steel, BF equivalent	10,294	13,162	63,656	67,888	154,999	46	650	104	16	816	10,340	13,812	63,760	67,903	155,816
Total Material, BF equivalent	519,748	679,292	1,198,140	725,633	3,122,812	9,965	31,691	50,290	22,882	114,828	529,712	710,984	1,248,430	748,515	3,237,640
STRUCTURAL AND NONSTRUCTURAL PANELS															
Structural Panels, SF 3/8" Basis															
Softwood Plywood	331,325	227,824	580,187	284,092	1,423,428	8,845	11,826	25,751	33,286	79,707	340,169	239,650	605,938	317,378	1,503,135
Treated Plywood	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB	73,840	169,812	160,351	186,790	590,793	2,082	1,133	14,985	15,731	33,931	75,922	170,944	175,336	202,521	624,724
Total Structural Panels, SF 3/8" basis	405,164	397,636	740,538	470,882	2,014,221	10,927	12,958	40,736	49,016	113,638	416,091	410,594	781,275	519,899	2,127,859
Nonstructural Wood Panels, SF 3/8" Basis															
Hardwood Plywood	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MDF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Particleboard	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hardboard	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Lauan	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fiberboard	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Panels, SF 3/8" basis equivalent	405,164	397,636	740,538	470,882	2,014,221	10,927	12,958	40,736	49,016	113,638	416,091	410,594	781,275	519,899	2,127,859

[illegible]

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
<i>All Data in Thousands</i>															
WOOD USAGE IN MILLWORK															
LUMBER & ENGINEERED LUMBER															
Lumber - Softwood															
Framing, BF *	171,387	218,531	310,669	177,009	877,595	24,314	26,830	25,925	24,343	101,412	195,700	245,362	336,594	201,352	979,008
Boards, BF **	354,391	318,181	696,282	265,470	1,634,324	50,864	67,749	80,208	69,924	268,746	405,255	385,930	776,490	335,394	1,903,070
Treated Framing, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Treated Boards, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Sawn Beams, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Logs, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Subtotal Lumber, BF	525,778	536,712	1,006,950	442,479	2,511,919	75,178	94,580	106,133	94,267	370,158	600,956	631,292	1,113,084	536,746	2,882,078
Engineered Lumber															
Glulam, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Subtotal Engineered Wood, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	525,778	536,712	1,006,950	442,479	2,511,919	75,178	94,580	106,133	94,267	370,158	600,956	631,292	1,113,084	536,746	2,882,078
Hardwood lumber, BF	901,264	714,057	1,538,938	709,767	3,864,026	138,239	77,415	190,111	104,080	509,846	1,039,503	791,472	1,729,049	813,848	4,373,872
STRUCTURAL AND NONSTRUCTURAL PANELS															
Structural Panels, SF 3/8" Basis															
Softwood Plywood	85,362	101,600	244,076	178,028	609,067	13,215	27,910	27,871	31,198	100,193	98,576	129,510	271,947	209,226	709,259
Treated Plywood	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB	12,528	7,084	50,124	15,530	85,265	0	0	0	0	0	12,528	7,084	50,124	15,530	85,265
Total Structural Panels, SF 3/8" basis	97,890	108,685	294,200	193,558	694,332	13,215	27,910	27,871	31,198	100,193	111,104	136,594	322,071	224,756	794,525
Nonstructural Wood Panels, SF 3/8" Basis															
Hardwood Plywood	103,274	108,026	212,088	79,383	502,772	10,971	9,415	14,475	7,692	42,553	114,245	117,442	226,563	87,075	545,325
MDF	19,536	28,624	33,829	21,597	103,586	9,539	9,502	2,232	2,759	24,032	29,075	38,126	36,061	24,356	127,618
Particleboard	251,405	259,678	360,168	272,894	1,144,144	26,709	25,885	37,000	26,167	115,762	278,114	285,563	397,168	299,061	1,259,906
Hardboard	60,212	115,015	116,210	63,841	355,279	5,087	3,949	4,553	7,671	21,260	65,299	118,964	120,764	71,512	376,538
Lauan	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fiberboard	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Subtotal Non-Str'l Wood Panels, SF 3/8"	434,427	511,343	722,296	437,715	2,105,781	52,305	48,752	58,260	44,289	203,606	486,732	560,095	780,556	482,004	2,309,387
Total Panels, SF 3/8" basis equivalent	532,316	620,027	1,016,496	631,273	2,800,113	65,520	76,662	86,131	75,486	303,799	597,836	696,689	1,102,627	706,760	3,103,912

* Millwork cut from stock greater than 1 inch

** Millwork cut from 1" stock or less, including beveled siding

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
<i>All Data in Thousands</i>															
WOOD USAGE IN OUTDOOR STRUCTURES															
LUMBER & ENGINEERED LUMBER															
Lumber - Softwood															
Framing, BF	99,643	105,371	365,899	180,111	751,024	10,490	6,455	20,742	13,855	51,541	110,133	111,826	386,641	193,966	802,566
Boards, BF	23,208	64,092	93,458	105,347	286,105	1,616	5,721	4,032	6,369	17,739	24,824	69,813	97,490	111,716	303,843
Treated Framing, BF	829,110	1,158,351	2,072,463	777,840	4,837,765	35,960	58,813	139,905	73,106	307,784	865,071	1,217,164	2,212,368	850,946	5,145,549
Treated Boards, BF	213,203	341,236	803,508	256,817	1,614,763	16,324	17,404	60,627	45,200	139,555	229,527	358,641	864,135	302,017	1,754,319
Sawn Beams, BF	12,548	13,589	42,227	19,956	88,321	1,837	1,081	3,481	2,516	8,915	14,386	14,670	45,708	22,472	97,236
Logs, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Subtotal Lumber, BF	1,177,713	1,682,640	3,377,556	1,340,071	7,577,979	66,228	89,474	228,786	141,046	525,534	1,243,941	1,772,114	3,606,342	1,481,117	8,103,513
Engineered Lumber															
Glulam, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Subtotal Engineered Wood, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	1,177,713	1,682,640	3,377,556	1,340,071	7,577,979	66,228	89,474	228,786	141,046	525,534	1,243,941	1,772,114	3,606,342	1,481,117	8,103,513
Hardwood lumber, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
STRUCTURAL AND NONSTRUCTURAL PANELS*															
Structural Panels, SF 3/8" Basis															
Softwood Plywood	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Treated Plywood	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Structural Panels, SF 3/8" basis	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Nonstructural Wood Panels, SF 3/8" Basis															
Hardwood Plywood	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MDF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Particleboard	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hardboard	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Lauan	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fiberboard	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Panels, SF 3/8" basis equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TOTAL WOOD USAGE IN FOUNDATION AND OUTDOOR STRUCTURE USAGE															
Total - Lumber, BF	135,400	183,052	501,584	305,414	1,125,451	13,943	13,257	28,254	22,741	78,195	149,343	196,309	529,839	328,155	1,203,646
Total - Treated Lumber, BF	1,042,313	1,499,587	2,875,971	1,034,657	6,452,528	52,285	76,218	200,532	118,306	447,339	1,094,598	1,575,805	3,076,503	1,152,962	6,899,868

* Sheathing over porches is included in roof sheathing.

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	US TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
<i>All Data in Thousands</i>															
WOOD USAGE IN ALL FRAMING (Excluding sheathing and millwork)															
TOTAL LUMBER - FOUNDATIONS, WALLS, FLOORS, ROOF, BEAMS, RIM BOARDS & OUTDOOR STRUCTURES															
Lumber - Regular, BF															
2x3s	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2x4s	373,112	584,747	699,171	513,137	2,170,166	21,029	39,241	29,494	45,524	135,288	394,141	623,987	728,665	558,662	2,305,455
2x6s	285,003	369,989	567,115	304,361	1,526,468	13,059	16,999	28,252	17,592	75,902	298,062	386,988	595,367	321,953	1,602,370
2x8s	267,000	276,971	668,030	316,937	1,528,939	10,308	10,921	38,188	9,620	69,038	277,309	287,892	706,219	326,557	1,597,977
2x10s	149,471	176,984	335,160	142,365	803,981	7,134	2,451	20,549	5,733	35,867	156,605	179,435	355,709	148,098	839,848
2x12s	32,243	40,857	72,518	28,781	174,399	2,005	326	4,584	1,676	8,591	34,248	41,183	77,101	30,457	182,990
Boards	23,208	64,092	93,458	105,347	286,105	1,616	5,721	4,032	6,369	17,739	24,824	69,813	97,490	111,716	303,843
Solid Sawn Beams	36,204	83,553	115,603	65,011	300,371	14,722	2,730	5,495	5,493	28,440	50,926	86,283	121,098	70,504	328,811
Logs	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Lumber - Regular, BF	1,166,241	1,597,192	2,551,054	1,475,940	6,790,428	69,874	78,390	130,594	92,008	370,866	1,236,115	1,675,582	2,681,648	1,567,948	7,161,294
Lumber - Treated, BF															
2x4s	238,692	319,738	581,699	96,605	1,236,735	8,966	15,740	38,021	5,433	68,160	247,658	335,478	619,720	102,038	1,304,894
2x6s	112,331	149,920	229,194	109,803	601,249	4,193	7,573	15,085	6,383	33,234	116,524	157,493	244,280	116,186	634,483
2x8s	137,294	183,236	280,126	134,204	734,860	5,125	9,256	18,438	7,801	40,619	142,419	192,491	298,564	142,005	775,479
2x10s	187,219	249,867	381,991	183,006	1,002,082	6,989	12,621	25,142	10,638	55,390	194,207	262,488	407,133	193,644	1,057,472
2x12s	62,406	83,289	127,330	61,002	334,027	2,330	4,207	8,381	3,546	18,463	64,736	87,496	135,711	64,548	352,491
Boards	132,725	183,303	347,392	63,757	727,176	9,219	9,728	28,264	6,854	54,065	141,944	193,030	375,656	70,611	781,241
Posts	21,820	30,394	43,493	20,211	115,918	1,723	2,139	4,019	1,941	9,823	23,543	32,533	47,513	22,152	125,741
Fencing & landscape timbers	160,956	315,867	912,232	386,120	1,775,175	14,211	15,353	64,725	76,691	170,980	175,167	331,220	976,957	462,811	1,946,155
Total Lumber - Treated, BF	1,053,442	1,515,614	2,903,458	1,054,707	6,527,221	52,756	76,616	202,075	119,288	450,736	1,106,198	1,592,231	3,105,533	1,173,995	6,977,957
TOTAL LUMBER AND ENGINEERED WOOD EQUIVALENTS USED IN FRAMING (Excluding boards)															
Lumber Equivalent															
Lumber, BF	2,183,479	3,029,253	5,338,910	2,465,636	13,017,278	107,908	152,276	327,174	205,803	793,161	2,291,387	3,181,530	5,666,084	2,671,439	13,810,439
Solid Sawn Beams, BF	36,204	83,553	115,603	65,011	300,371	14,722	2,730	5,495	5,493	28,440	50,926	86,283	121,098	70,504	328,811
Glulam, BF	298	432	2,100	2,014	4,845	23	25	132	122	301	321	457	2,232	2,136	5,146
I-joists, LF	29,759	26,020	27,140	47,400	130,319	693	216	355	5,641	6,906	30,452	26,237	27,495	53,041	137,224
I-joists, BF equivalent	59,519	52,040	54,280	94,799	260,638	1,386	433	711	11,282	13,811	60,904	52,473	54,990	106,081	274,449
LVL, Cubic Feet	42	66	45	11	165	4	4	3	1	11	46	70	48	12	176
LVL, BF equivalent	673	1,062	728	181	2,644	56	61	46	11	174	729	1,123	773	192	2,818
Parallam™, Cubic Feet	24	35	0	0	60	2	2	0	0	4	26	37	0	0	64
Parallam™, BF equivalent	389	565	0	0	954	30	33	0	0	62	419	597	0	0	1,016
Timberstrand™, LF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Plywood, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Engineered Wood, BF Equivalent	60,879	54,099	57,107	96,994	269,080	1,494	552	888	11,415	14,349	62,373	54,651	57,995	108,409	283,429
Total Lbr. & Eng. Lumber, BF equivalent	2,280,562	3,166,906	5,511,620	2,627,641	13,586,729	124,125	155,559	333,557	222,711	835,951	2,404,686	3,322,464	5,845,177	2,850,352	14,422,680

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	US TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL

All Data in Thousands

WOOD USAGE IN FOUNDATIONS

FOUNDATIONS

WOOD FOUNDATION SYSTEMS

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	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	US TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
<i>All Data in Thousands</i>															
WOOD USAGE IN FLOOR FRAMING - ALL FLOORS															
FLOOR JOISTS - ALL FLOORS															
2 x 4s (Trusses), BF	18,373	15,642	17,065	9,083	60,164	376	4,933	340	1,041	6,691	18,749	20,576	17,406	10,125	66,855
2 x 8s, BF Lumber	8,357	10,590	18,796	7,460	45,203	520	85	1,188	434	2,227	8,877	10,674	19,984	7,894	47,430
2 x 10s, BF Lumber	105,881	134,168	238,137	94,514	572,699	6,585	1,071	15,052	5,503	28,212	112,466	135,239	253,189	100,017	600,911
2 x 12s, BF Lumber	32,243	40,857	72,518	28,781	174,399	2,005	326	4,584	1,676	8,591	34,248	41,183	77,101	30,457	182,990
Subtotal: Lumber in Floor Joists, BF	164,854	201,257	346,516	139,838	852,465	9,486	6,415	21,164	8,655	45,721	174,340	207,672	367,680	148,493	898,186
I-joists, LF	29,551	25,718	27,140	47,400	129,808	677	199	355	5,641	6,872	30,228	25,917	27,495	53,041	136,681
I-joists, BF equivalent	59,102	51,436	54,280	94,799	259,617	1,354	398	711	11,282	13,744	60,456	51,834	54,990	106,081	273,361
Total Lbr. & Eng. Lumber, BF equivalent	223,956	252,692	400,795	234,638	1,112,082	10,840	6,813	21,875	19,936	59,465	234,796	259,506	422,671	254,574	1,171,547
FLOOR BEAMS - ALL FLOORS															
Built-up Dimension Lumber, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Solid Sawn Beams, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Glulam, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LVL, Cubic Feet	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand™, Cubic Feet	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Parallam™, Cubic Feet	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-joists, LF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
RIM BOARDS FOR I-JOISTS - ALL FLOORS															
Lumber, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand™, Cubic Feet	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-joist, LF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LVL, Cubic Feet	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Glulam, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Plywood, 3/8 inch basis	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Plywood, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB, 3/8 inch basis	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TOTAL WOOD USAGE IN FLOOR FRAMING (Excluding boards) - ALL FLOORS															
Lumber Equivalent															
Lumber, BF	164,854	201,257	346,516	139,838	852,465	9,486	6,415	21,164	8,655	45,721	174,340	207,672	367,680	148,493	898,186
Glulam, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-joists, LF	29,551	25,718	27,140	47,400	129,808	677	199	355	5,641	6,872	30,228	25,917	27,495	53,041	136,681
I-joist, BF equivalent	59,102	51,436	54,280	94,799	259,617	1,354	398	711	11,282	13,744	60,456	51,834	54,990	106,081	273,361
LVL, Cubic Feet	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Parallam™, Cubic Feet	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand™, Cubic Feet	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Plywood - BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB - BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Engineered Wood, BF Equivalent	59,102	51,436	54,280	94,799	259,617	1,354	398	711	11,282	13,744	60,456	51,834	54,990	106,081	273,361
Total Lbr. & Eng. Lumber, BF equivalent	223,956	252,692	400,795	234,638	1,112,082	10,840	6,813	21,875	19,936	59,465	234,796	259,506	422,671	254,574	1,171,547

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	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
<i>All Data in Thousands</i>															
WOOD USAGE IN WALL FRAMING															
WALL FRAMING															
2 x 4s Walls, BF	193,333	271,579	340,713	216,393	1,022,019	12,489	13,113	18,036	20,208	63,847	205,822	284,692	358,750	236,602	1,085,866
2 x 6s Walls, BF	144,077	202,662	255,744	162,022	764,506	9,678	9,884	13,205	14,832	47,599	153,755	212,547	268,949	176,853	812,105
Interior 2 x 3s Walls, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Interior 2 x 4s Walls, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Interior 2 x 6s Walls, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Treated plates on slabs	11,129	16,027	27,487	20,050	74,693	471	399	1,544	983	3,396	11,600	16,426	29,030	21,033	78,089
Blocking for drywall, 2 x 4, BF	7,772	10,917	13,697	8,699	41,085	502	527	725	812	2,567	8,274	11,445	14,422	9,511	43,652
Blocking for drywall, 2 x 6, BF	15,027	21,138	26,674	16,899	79,738	1,009	1,031	1,377	1,547	4,965	16,037	22,169	28,051	18,446	84,703
Subtotal: Dimension Lumber in Walls	371,338	522,324	664,315	424,063	1,982,040	24,150	24,954	34,888	38,382	122,374	395,488	547,278	699,203	462,445	2,104,414
Timberstrand™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-joists, LF or BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Post and Beams, BF	20,349	58,215	56,014	38,082	172,659	12,754	1,506	1,586	2,711	18,558	33,103	59,721	57,600	40,793	191,218
Logs, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	391,686	580,539	720,329	462,145	2,154,700	36,904	26,460	36,474	41,093	140,932	428,591	606,999	756,803	503,238	2,295,632
WINDOW AND DOOR HEADERS															
Lumber,BF(Blt-up,Open Web & Flitch Pl'te)	13,312	21,957	21,751	3,616	60,637	1,158	1,270	1,364	219	4,011	14,469	23,227	23,115	3,835	64,647
Solid Sawn Beams, BF	1,546	2,473	6,824	4,393	15,236	130	143	428	266	967	1,677	2,616	7,252	4,659	16,203
Glulam, BF	298	432	2,100	2,014	4,845	23	25	132	122	301	321	457	2,232	2,136	5,146
I-Joists, LF	208	302	0	0	510	16	17	0	0	33	224	320	0	0	544
I-joists, BF equivalent	416	604	0	0	1,021	32	35	0	0	67	448	639	0	0	1,088
LVL, Cubic Feet	42	66	45	11	165	4	4	3	1	11	46	70	48	12	176
LVL, BF equivalent	673	1,062	728	181	2,644	56	61	46	11	174	729	1,123	773	192	2,818
Parallam™, Cubic Feet	24	35	0	0	60	2	2	0	0	4	26	37	0	0	64
Parallam™, BF equivalent	389	565	0	0	954	30	33	0	0	62	419	597	0	0	1,016
Timberstrand™, Cubic Feet	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Glued and Nailed Box Beams, BF Lumber	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	16,635	27,094	31,403	10,205	85,336	1,429	1,567	1,969	617	5,582	18,063	28,661	33,372	10,822	90,918
GARAGE DOOR HEADERS															
Lumber, BF (Blt-up,Open Web & Flitch Pl'te)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Solid Sawn Beams, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Glulam, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-Joists, LF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-joists, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LVL, Cubic Feet	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Parallam™, Cubic Feet	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand™, Cubic Feet	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Glued and Nailed Box Beams, BF Lumber	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TOTAL WOOD USAGE IN WALL FRAMING (Excluding boards)															
Lumber Equivalent															
Lumber, BF	406,544	604,969	748,904	470,155	2,230,572	38,193	27,873	38,266	41,578	145,910	444,737	632,843	787,170	511,733	2,376,482
Glulam, BF	298	432	2,100	2,014	4,845	23	25	132	122	301	321	457	2,232	2,136	5,146
Timberstrand™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-joists, LF	208	302	0	0	510	16	17	0	0	33	224	320	0	0	544
I-joist, BF equivalent	416	604	0	0	1,021	32	35	0	0	67	448	639	0	0	1,088
LVL, Cubic Feet	42	66	45	11	165	4	4	3	1	11	46	70	48	12	176
LVL, BF equivalent	673	1,062	728	181	2,644	56	61	46	11	174	729	1,123	773	192	2,818
Parallam™, Cubic Feet	24	35	0	0	60	2	2	0	0	4	26	37	0	0	64
Parallam™, BF equivalent	389	565	0	0	954	30	33	0	0	62	419	597	0	0	1,016
Total Engineered Wood, BF Equivalent	1,777	2,663	2,828	2,195	9,463	140	154	177	133	605	1,917	2,818	3,005	2,328	10,068
Total Lbr. & Eng. Lumber, BF equivalent	408,321	607,633	751,732	472,350	2,240,036	38,333	28,027	38,443	41,711	146,514	446,654	635,660	790,175	514,060	2,386,550

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
<i>All Data in Thousands</i>															
WOOD USAGE IN ROOF FRAMING															
TRUSSES, RAFTERS AND CEILING JOISTS															
2 x 4s (Trusses), BF	101,774	197,367	217,386	253,524	770,051	1,917	12,930	5,497	19,787	40,131	103,691	210,297	222,883	273,311	810,183
2 x 6s (Rafters), BF	99,080	97,323	220,535	108,768	525,707	1,249	3,136	12,494	522	17,401	100,329	100,459	233,029	109,290	543,107
2 x 8s (Rafters), BF	187,598	184,270	417,559	205,939	995,367	2,364	5,938	23,655	989	32,946	189,962	190,208	441,215	206,929	1,028,313
2 x 10s (Rafters), BF	43,590	42,817	97,023	47,852	231,282	549	1,380	5,497	230	7,655	44,139	44,196	102,520	48,082	238,937
Turn Gables, 2 x 4s, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dormers, 2 x 4s, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Soffit, 2 x 4s, BF	48,832	86,212	107,281	22,409	264,735	2,717	4,709	1,867	648	9,941	51,549	90,921	109,148	23,056	274,675
Fascia and Rakes, 2 x 6s, BF	26,818	48,866	64,161	16,673	156,518	1,123	2,948	1,176	691	5,937	27,941	51,814	65,337	17,364	162,455
Subtotal: Framing Lumber in Roofs	507,693	656,855	1,123,946	655,165	2,943,659	9,919	31,041	50,186	22,866	114,012	517,611	687,897	1,174,132	678,031	3,057,671
I-joists, LF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	507,693	656,855	1,123,946	655,165	2,943,659	9,919	31,041	50,186	22,866	114,012	517,611	687,897	1,174,132	678,031	3,057,671
ROOF BEAMS (incl. Beam and Purlin Construction)															
Built-up Dimension Lumber, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Solid Sawn Beams, BF	1,761	9,275	10,538	2,580	24,154	0	0	0	0	0	1,761	9,275	10,538	2,580	24,154
Glulam, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LVL, Cubic Feet	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand™, Cubic Feet	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Parallam™, Cubic Feet	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-joists, LF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	1,761	9,275	10,538	2,580	24,154	0	0	0	0	0	1,761	9,275	10,538	2,580	24,154
TOTAL WOOD USAGE IN ROOF FRAMING (Excluding boards)															
Lumber Equivalent															
Lumber, BF	509,453	666,131	1,134,484	657,745	2,967,813	9,919	31,041	50,186	22,866	114,012	519,372	697,172	1,184,670	680,611	3,081,825
Glulam, BF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-joists, LF	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LVL, Cubic Feet	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand™, Cubic Feet	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Parallam™, Cubic Feet	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Engineered Wood, BF Equivalent	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	509,453	666,131	1,134,484	657,745	2,967,813	9,919	31,041	50,186	22,866	114,012	519,372	697,172	1,184,670	680,611	3,081,825

[illegible]

[illegible]

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
<i>All Data in Thousands</i>															
WOOD USAGE IN SHEATHING															
FLOOR SHEATHING															
SF of 1st & 2nd Story Floor Area															
None - Slab or Stress Skin Panel	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Plywood - 1/2"	36,771	76,051	111,086	48,106	272,014	4,335	1,378	10,452	2,917	19,083	41,106	77,429	121,539	51,024	291,097
Plywood - 5/8"	24,606	49,055	81,374	38,042	193,078	4,966	1,445	3,583	10,296	20,291	29,573	50,501	84,957	48,338	213,368
Plywood - 3/4"	76,991	70,418	153,057	67,680	368,147	2,135	1,169	14,777	4,011	22,093	79,127	71,588	167,834	71,691	390,240
Plywood - 1 1/8"	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB - 7/16" OR 1/2"	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB - 5/8"	30,128	33,781	29,978	35,886	129,773	103	659	265	433	1,460	30,231	34,440	30,243	36,319	131,234
OSB - 3/4"	21,059	59,416	43,026	26,874	150,376	419	43	1,694	948	3,103	21,478	59,459	44,720	27,822	153,479
OSB - 7/8"	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB - 1"	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB - 1 1/8"	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Boards - 1"	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Boards - 2"	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Other	12,012	6,494	19,179	25,152	62,836	0	0	262	0	262	12,012	6,494	19,441	25,152	63,098
TOTAL	201,568	295,216	437,700	241,740	1,176,224	11,959	4,695	31,033	18,606	66,293	213,526	299,911	468,733	260,346	1,242,516
FLOOR SHEATHING VOLUMES															
Plywood, SF 3/8" basis	244,021	323,996	589,853	262,905	1,420,775	18,329	6,585	49,461	29,073	103,448	262,350	330,581	639,314	291,978	1,524,223
OSB, SF 3/8" basis	92,332	175,135	136,016	113,557	517,040	1,009	1,185	3,830	2,617	8,641	93,341	176,319	139,846	116,175	525,681
Boards / other, 3/8" str'l pn'l basis equiv.	21,314	11,226	33,263	43,718	109,521	0	0	454	0	454	21,314	11,226	33,716	43,718	109,975
Total Panel Potential, 3/8" basis equiv	357,667	510,357	759,132	420,180	2,047,336	19,338	7,770	53,745	31,691	112,543	377,005	518,127	812,876	451,871	2,159,879

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
<i>All Data in Thousands</i>															
WALL SHEATHING															
SF of Exterior Wall															
None (Stress Skin Panel or Other)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Plywood - 3/8"	24,853	40,422	63,438	29,421	158,134	867	602	1,530	3,173	6,172	25,720	41,024	64,968	32,594	164,306
Plywood - 1/2"	66,685	64,163	122,599	47,532	300,978	1,744	8,120	10,563	7,368	27,794	68,428	72,282	133,162	54,899	328,772
Plywood - 5/8"	39,850	24,542	55,899	39,415	159,706	136	170	573	573	1,451	39,986	24,712	56,471	39,988	161,157
Plywood - 3/4"	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB - 3/8"	4,077	12,530	22,562	17,031	56,200	31	79	203	567	880	4,108	12,609	22,765	17,598	57,081
OSB - 7/16" OR 1/2"	18,544	72,004	59,465	45,695	195,708	622	4,140	5,510	9,700	19,973	19,166	76,144	64,975	55,395	215,680
OSB - 5/8"	9,556	39,536	20,689	31,306	101,088	90	232	1,816	333	2,471	9,646	39,769	22,505	31,639	103,559
OSB - 3/4"	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fiberboard - 1/2"	10,038	10,636	28,004	14,002	62,680	2,540	2,386	3,570	7,148	15,645	12,578	13,023	31,574	21,150	78,325
Cementitious Board	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Gypsum	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Foil Faced 3-ply Kraft Paper - 1/8"	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Boards - 1"	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Foam	12,158	18,137	20,855	12,498	63,647	2,926	567	5,410	1,298	10,201	15,084	18,704	26,265	13,796	73,849
Other	17,562	25,129	46,544	19,437	108,672	0	810	2,696	0	3,506	17,562	25,939	49,240	19,437	112,178
TOTAL	203,322	307,100	440,054	256,338	1,206,814	8,955	17,106	31,871	30,159	88,092	212,278	324,206	471,925	286,497	1,294,906
WALL SHEATHING VOLUMES															
Plywood, SF 3/8" basis	180,183	166,876	320,067	158,489	825,615	3,418	11,711	16,569	13,951	45,649	183,600	178,587	336,636	172,440	871,264
OSB, SF 3/8" basis	44,729	174,429	136,330	130,135	485,623	1,011	5,987	10,576	14,055	31,629	45,739	180,416	146,907	144,190	517,252
Foam, SF 3/8" str'l panel basis equivalent	16,718	24,448	27,617	17,144	85,927	3,713	752	7,272	1,674	13,412	20,431	25,200	34,889	18,818	99,339
Boards / other, 3/8" str'l pn'l basis equiv.	37,951	48,211	98,719	45,871	230,753	3,224	4,239	8,423	9,220	25,105	41,176	52,450	107,141	55,091	255,858
Total Panel Potential, 3/8" basis equiv	279,581	413,965	582,733	351,640	1,627,918	11,366	22,689	42,840	38,900	115,795	290,946	436,653	625,573	390,540	1,743,713

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
<i>All Data in Thousands</i>															
ROOF SHEATHING															
SF of Roof Area															
None	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Plywood - 3/8"	33,260	29,986	60,500	38,123	161,870	883	2,162	8,759	5,987	17,791	34,143	32,148	69,260	44,111	179,661
Plywood - 1/2"	80,799	75,418	193,502	64,151	413,870	5,479	6,041	11,417	17,134	40,071	86,278	81,459	204,919	81,284	453,941
Plywood - 5/8"	114,200	58,369	157,010	96,261	425,839	394	965	1,061	2,672	5,092	114,593	59,334	158,072	98,933	430,932
Plywood - 3/4"	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB - 7/16" or 1/2"	27,684	75,280	57,738	73,850	234,553	1,124	827	11,188	11,678	24,817	28,809	76,107	68,926	85,528	259,370
OSB - 5/8"	22,156	41,663	50,021	52,994	166,833	350	18	41	96	505	22,506	41,681	50,061	53,090	167,338
OSB - 3/4"	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Boards - 1" - no spacing	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Boards - 1" - spaced	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Boards - 2"	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Other	14,261	24,085	59,600	36,954	134,900	9,442	0	0	290	9,731	23,703	24,085	59,600	37,243	144,631
TOTAL	292,361	304,800	578,371	362,333	1,537,865	17,672	10,013	32,467	37,857	98,008					
ROOF SHEATHING VOLUMES															
Plywood, SF 3/8" Basis	331,325	227,824	580,187	284,092	1,423,428	8,845	11,826	25,751	33,286	79,707	340,169	239,650	605,938	317,378	1,503,135
OSB, SF 3/8" Basis	73,840	169,812	160,351	186,790	590,793	2,082	1,133	14,985	15,731	33,931	75,922	170,944	175,336	202,521	624,724
Boards / Other, 3/8" str'l pn'l basis equiv.	20,778	34,116	85,078	53,478	193,451	12,536	0	0	378	12,914	33,313	34,116	85,078	53,856	206,364
Total Panel Potential, 3/8" basis equiv	425,942	431,752	825,617	524,361	2,207,672	23,463	12,958	40,736	49,394	126,552	449,405	444,710	866,353	573,755	2,334,223

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
<i>All Data in Thousands</i>															
WOOD USAGE IN MILLWORK															
SIDING MATERIAL															
SF of Exterior Wall															
Plywood panels	29,438	31,052	83,973	70,779	215,243	2,301	9,373	6,366	9,793	27,833	31,739	40,425	90,339	80,573	243,076
Hardboard	1,114	16,443	10,057	14,020	41,634	0	0	0	0	0	1,114	16,443	10,057	14,020	41,634
Lumber	80,855	80,333	158,939	71,101	391,228	5,362	5,385	24,269	4,410	39,426	86,217	85,717	183,209	75,511	430,654
Cedar Shingles	40,315	3,428	35,286	18,750	97,778	1,047	197	246	126	1,616	41,363	3,625	35,531	18,876	99,394
OSB	6,910	2,984	26,676	8,524	45,093	0	0	0	0	0	6,910	2,984	26,676	8,524	45,093
Other wood	175	961	5,076	7,367	13,579	0	0	0	0	0	175	961	5,076	7,367	13,579
Brick	11,471	44,972	62,331	5,255	124,029	632	174	1,159	6,922	8,887	12,103	45,146	63,489	12,177	132,916
Natural Stone	8,095	18,674	18,137	21,197	66,102	0	0	0	0	0	8,095	18,674	18,137	21,197	66,102
Manufactured Stone	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Concrete Stucco	20,935	8,937	218,492	224,212	472,576	10,247	8,407	12,778	40,926	72,357	31,181	17,344	231,270	265,139	544,933
Acrylic Stucco	11,040	2,432	40,346	28,155	81,973	194	53	355	2,183	2,785	11,234	2,485	40,701	30,338	84,758
Concrete block	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fiber Cement	30,554	86,065	353,821	99,251	569,692	4,211	1,160	35,850	14,141	55,362	34,765	87,225	389,671	113,392	625,054
Vinyl	772,369	1,150,026	878,933	206,628	3,007,956	77,235	104,035	145,270	30,903	357,443	849,604	1,254,061	1,024,203	237,531	3,365,399
Aluminum	49,576	56,286	46,312	19,664	171,838	19,850	20,702	21,037	13,530	75,119	69,426	76,988	67,349	33,194	246,957
Steel	1,014	31,746	34,625	26,369	93,753	0	0	0	0	0	1,014	31,746	34,625	26,369	93,753
Other	21,955	22,171	76,991	41,316	162,434	0	7,519	0	17,059	24,578	21,955	29,689	76,991	58,376	187,012
TOTAL	1,085,817	1,556,509	2,049,994	862,589	5,554,908	121,078	157,004	247,330	139,994	665,407	1,206,896	1,713,513	2,297,324	1,002,583	6,220,315
MILLWORK VOLUMES - Volumes as indicated															
SIDING VOLUMES															
Lumber, BF	116,431	115,679	228,873	102,386	563,369	7,722	7,754	34,948	6,351	56,773	124,153	123,433	263,820	108,736	620,142
Cedar Shakes and Shingles, BF	50,394	4,285	44,107	23,437	122,223	1,309	247	307	157	2,020	51,703	4,531	44,414	23,594	124,243
Plywood, SF 3/8" Basis	61,232	64,588	174,664	147,221	447,705	4,786	19,496	13,240	20,370	57,893	66,018	84,085	187,905	167,591	505,599
OSB, SF 3/8" Basis	12,438	5,370	48,016	15,343	81,168	0	0	0	0	0	12,438	5,370	48,016	15,343	81,168
Hardboard, SF 3/8" Basis	1,637	24,172	14,784	20,609	61,202	0	0	0	0	0	1,637	24,172	14,784	20,609	61,202
SOFFITS AND FASCIA - EAVES & RAKES															
Plywood, SF 3/8" Basis	1,297	4,458	14,333	1,907	21,996	93	45	199	4	341	1,390	4,503	14,532	1,911	22,337
MDF, SF 3/8" Basis	1,097	2,708	6,640	2,153	12,597	0	5	32	0	38	1,097	2,713	6,671	2,154	12,635
Lumber, BF	14,677	19,371	39,035	14,853	87,936	194	1,213	2,172	474	4,054	14,872	20,584	41,207	15,327	91,990
OSB, SF 3/8" Basis	89	1,714	2,108	187	4,098	0	0	0	0	0	89	1,714	2,108	187	4,098
ROOFING															
Cedar Shakes and Shingles, BF	125,656	106,467	289,880	75,999	598,002	36,025	54,006	31,943	54,137	176,111	161,681	160,474	321,823	130,135	774,113
EXTERIOR ORNAMENTAL TRIM															
Lumber, BF	10,681	20,809	42,995	24,938	99,423	1,884	936	3,517	3,336	9,673	12,565	21,745	46,512	28,275	109,096
Plywood, SF 3/8" Basis	688	1,414	1,238	667	4,008	1	0	0	1	2	689	1,414	1,239	668	4,010
MDF, 3/8" Basis	745	813	1,131	1,800	4,489	181	71	386	373	1,011	926	884	1,517	2,173	5,499
SHUTTERS															
Lumber, BF	1,453	1,153	5,499	3,095	11,200	54	18	792	160	1,024	1,507	1,171	6,290	3,255	12,223

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
<i>All Data in Thousands</i>															
EXTERIOR AND INTERIOR DOORS															
Lumber, BF	101,121	128,118	196,061	107,218	532,517	9,031	12,848	17,838	16,137	55,855	110,151	140,966	213,899	123,355	588,372
Plywood, SF 3/8" Basis	892	873	2,503	2,147	6,416	362	317	264	603	1,546	1,254	1,189	2,768	2,751	7,962
Hardboard, SF 3/8" Basis	8,982	11,180	17,651	9,036	46,849	600	1,356	1,881	1,677	5,513	9,582	12,536	19,532	10,713	52,362
Hardwood Plywood (Incl. Lauan), SF 3/8" Ba	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Particleboard, SF 3/8" Basis	21,359	18,946	38,246	22,278	100,828	1,613	2,468	1,803	2,890	8,775	22,972	21,414	40,049	25,168	109,603
WINDOWS															
Lumber, BF	24,323	20,759	22,002	10,685	77,768	1,690	2,057	1,681	938	6,367	26,013	22,816	23,683	11,623	84,135
GARAGE DOORS & FRAMING															
Lumber, BF	15,913	21,395	22,265	12,073	71,645	1,477	682	984	944	4,087	17,389	22,076	23,250	13,016	75,732
Hardboard, SF 3/8" Basis	292	322	228	182	1,024	144	3	37	68	252	436	325	265	250	1,276
MOULDINGS															
Linear Feet Wood Moulding															
Base	78,902	111,719	144,977	90,766	426,364	6,295	5,714	6,598	7,510	26,117	85,198	117,433	151,575	98,276	452,482
Case	139,618	154,639	217,739	124,980	636,976	14,064	18,483	19,713	17,330	69,589	153,682	173,121	237,452	142,310	706,565
Other	15,538	22,811	24,886	15,531	78,767	856	889	1,107	1,285	4,137	16,394	23,700	25,993	16,816	82,903
TOTAL	234,058	289,169	387,602	231,277	1,142,107	21,215	25,086	27,418	26,125	99,844	255,273	314,255	415,020	257,402	1,241,950
MOULDINGS VOLUMES (based on 97 data)															
Volume measures as indicated															
Softwood Lumber, BF	19,349	27,451	27,346	22,095	96,241	10,233	10,308	1,904	2,987	25,432	29,581	37,758	29,250	25,083	121,672
Hardwood Lumber, BF	7,192	10,204	11,742	4,371	33,509	3,804	3,831	818	591	9,044	10,996	14,035	12,560	4,962	42,553
MDF, SF 3/8" Basis	17,694	25,103	26,059	17,644	86,500	9,358	9,426	1,814	2,386	22,984	27,051	34,529	27,873	20,030	109,484
CLOSET SHELVING (based on 97 data)															
Lumber, BF	5,294	7,511	11,926	6,283	31,015	2,800	2,820	4,968	3,407	13,995	8,094	10,331	16,895	9,690	45,010
Plywood, SF 3/8" Basis	13,235	18,777	29,816	15,708	77,537	7,000	7,051	12,421	8,517	34,988	20,235	25,828	42,237	24,225	112,525
Particleboard / MDF, SF 3/8" Basis	76,764	108,908	172,934	91,108	449,713	40,597	40,894	72,041	49,398	202,931	117,361	149,802	244,975	140,506	652,644
KITCHEN AND VANITY CABINETS															
Lumber - Softwood, BF	6,832	6,994	11,188	8,804	33,818	698	662	1,220	785	3,366	7,530	7,656	12,408	9,590	37,183
Lumber - Hardwood, BF	49,757	51,183	82,597	39,387	222,923	4,245	4,467	8,948	3,472	21,133	54,001	55,650	91,545	42,859	244,056
Plywood - Hardwood (Incl. Lauan), SF 3/8" E	30,304	31,288	69,911	29,171	160,673	3,358	2,985	7,645	2,541	16,528	33,662	34,273	77,555	31,711	177,201
Hardboard, SF 3/8" Basis	518	571	1,174	975	3,238	116	23	94	72	305	634	595	1,267	1,047	3,543
Particleboard / MDF, SF 3/8" Basis	217,320	221,650	299,549	240,932	979,450	23,197	21,412	32,636	21,668	98,912	240,517	243,062	332,184	262,599	1,078,362
KITCHEN CABINETS -- TYPE OF DOOR															
Number of Cabinets															
Wood finish, raised panel in frame	4,131	4,219	6,349	4,030	18,729	175	354	666	343	1,537	4,306	4,573	7,014	4,373	20,266
Wood finish, flat panel in frame	1,408	1,486	1,624	1,295	5,812	187	166	296	139	789	1,594	1,652	1,920	1,434	6,601
Glass panel in wood frame	219	221	562	365	1,367	1	38	6	3	48	220	259	568	368	1,414
Laminate with raised panel look	396	406	508	259	1,569	63	33	30	23	149	459	439	538	283	1,719
Wood finish, flat panel with no frame	283	310	658	542	1,793	67	14	53	42	175	349	324	711	583	1,967
Laminate finish, flat panel with no frame	204	94	276	158	733	99	64	54	38	255	303	158	330	196	987
Other	122	120	356	144	742	99	0	42	20	162	222	120	398	164	904
TOTAL	6,762	6,857	10,332	6,793	30,745	691	669	1,147	607	3,115	7,453	7,526	11,480	7,400	33,859

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
<i>All Data in Thousands</i>															
VANITY CABINETS -- TYPE OF DOOR															
Number of Cabinets															
Wood finish, raised panel in frame	385	409	729	402	1,925	17	19	88	48	172	402	427	818	451	2,098
Wood finish, flat panel in frame	85	112	160	131	488	14	2	7	4	28	99	114	167	135	515
Glass panel in wood frame	75	67	112	64	317	10	18	7	13	47	85	85	119	76	365
Laminate with raised panel look	55	75	80	48	258	16	4	4	0	24	71	80	84	48	283
Wood finish, flat panel with no frame	28	32	46	44	150	3	0	3	2	8	31	33	50	45	158
Laminate finish, flat panel with no frame	11	15	45	9	81	6	2	1	0	9	17	17	46	9	89
Other	36	48	50	66	200	3	6	3	0	12	39	53	53	66	212
TOTAL	675	758	1,223	763	3,419	69	51	113	67	301	744	809	1,337	830	3,720
ALL CABINETS -- TYPE OF DOOR															
Number of Cabinets															
Wood finish, raised panel in frame	4,516	4,628	7,078	4,433	20,654	192	372	754	391	1,709	4,708	5,000	7,832	4,823	22,364
Wood finish, flat panel in frame	1,493	1,597	1,784	1,426	6,300	201	169	304	143	816	1,693	1,766	2,087	1,570	7,117
Glass panel in wood frame	294	288	673	429	1,684	10	57	13	16	95	305	344	686	444	1,779
Laminate with raised panel look	451	481	589	307	1,828	79	37	34	23	174	530	519	623	330	2,002
Wood finish, flat panel with no frame	311	343	704	585	1,943	70	14	56	43	183	380	357	760	628	2,126
Laminate finish, flat panel with no frame	215	110	321	167	813	105	66	55	38	264	320	176	376	205	1,077
Other	158	168	407	209	942	102	6	45	20	174	261	174	452	230	1,116
TOTAL	7,437	7,614	11,556	7,556	34,164	760	721	1,261	674	3,415	8,197	8,335	12,816	8,231	37,579
KITCHEN CABINETS -- TYPE OF CABINET FRAME															
Number of Cabinets															
Frameless (European style)	1,303	1,154	2,085	1,582	6,124	150	82	159	130	521	1,454	1,235	2,244	1,712	6,645
Face-framed (traditional)	5,282	5,603	8,076	4,994	23,956	526	585	927	472	2,509	5,807	6,188	9,003	5,466	26,465
Other	177	100	171	217	665	15	2	62	6	84	192	102	233	223	750
TOTAL	6,762	6,857	10,332	6,793	30,745	691	669	1,147	607	3,115	7,453	7,526	11,480	7,400	33,859
VANITY CABINETS -- TYPE OF CABINET FRAME															
Number of Cabinets															
Frameless (European style)	130	127	247	178	682	15	6	16	14	51	145	134	263	192	733
Face-framed (traditional)	527	619	956	561	2,664	53	45	92	52	241	580	664	1,048	613	2,905
Other	18	11	20	24	73	1	0	6	1	8	19	11	26	25	82
TOTAL	675	758	1,223	763	3,419	69	51	113	67	301	744	809	1,337	830	3,720
ALL CABINETS -- TYPE OF CABINET FRAME															
Number of Cabinets															
Frameless (European style)	1,434	1,281	2,332	1,759	6,806	165	88	175	144	572	1,599	1,369	2,507	1,904	7,378
Face-framed (traditional)	5,809	6,222	9,032	5,556	26,619	578	630	1,018	524	2,750	6,387	6,852	10,051	6,079	29,370
Other	195	111	192	241	739	16	3	68	6	93	211	113	259	248	831
TOTAL	7,437	7,614	11,556	7,556	34,164	760	721	1,261	674	3,415	8,197	8,335	12,816	8,231	37,579
TYPE OF CABINET BOX															
Number of Cabinets															
Solid wood	836	856	1,578	324	3,595	85	81	172	29	368	922	937	1,751	353	3,962
Wood veneer on particleboard/MDF	4,021	4,117	5,784	3,932	17,854	411	390	631	351	1,782	4,432	4,507	6,415	4,283	19,637
Plastic/Paper overlay/laminate on particleboard	1,723	1,764	2,109	2,551	8,147	176	167	230	228	801	1,899	1,931	2,339	2,779	8,947
Plywood	836	856	2,081	746	4,519	85	81	227	67	460	921	937	2,308	813	4,979
Other	21	21	3	4	49	2	2	0	0	5	23	23	4	4	54
TOTAL	7,437	7,614	11,556	7,556	34,164	760	721	1,261	674	3,415	8,197	8,335	12,816	8,231	37,579
COUNTERTOPS															
Plywood, SF 3/8" Basis	8,018	11,490	21,520	10,377	51,405	973	1,000	1,746	1,702	5,421	8,990	12,490	23,266	12,079	56,827
Particleboard / MDF, SF 3/8" Basis	12,726	19,082	22,373	9,684	63,866	1,898	2,005	2,561	1,609	8,075	14,625	21,087	24,935	11,294	71,941
Lumber - Hardwood, BF	178	412	326	537	1,453	5	48	428	1	482	182	460	754	539	1,935

[illegible]

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	US TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
<i>All Data in Thousands</i>															
WOOD USAGE IN OUTDOOR STRUCTURES															
DECKS															
Lumber - Regular, BF															
Boards	12,123	51,160	44,369	72,984	180,636	845	4,811	1,714	4,357	11,727	12,969	55,971	46,083	77,341	192,363
Lumber - Treated, BF															
2x4s	227,563	303,712	554,212	76,555	1,162,042	8,495	15,341	36,478	4,450	64,763	236,058	319,052	590,690	81,005	1,226,805
2x6s	112,331	149,920	229,194	109,803	601,249	4,193	7,573	15,085	6,383	33,234	116,524	157,493	244,280	116,186	634,483
2x8s	137,294	183,236	280,126	134,204	734,860	5,125	9,256	18,438	7,801	40,619	142,419	192,491	298,564	142,005	775,479
2x10s	187,219	249,867	381,991	183,006	1,002,082	6,989	12,621	25,142	10,638	55,390	194,207	262,488	407,133	193,644	1,057,472
2x12s	62,406	83,289	127,330	61,002	334,027	2,330	4,207	8,381	3,546	18,463	64,736	87,496	135,711	64,548	352,491
Boards	113,381	165,282	289,556	49,016	617,236	6,278	8,719	23,931	4,379	43,307	119,659	174,001	313,487	53,395	660,543
Support Posts	21,820	30,394	43,493	20,211	115,918	1,723	2,139	4,019	1,941	9,823	23,543	32,533	47,513	22,152	125,741
Subtotal - Lumber, BF	12,123	51,160	44,369	72,984	180,636	845	4,811	1,714	4,357	11,727	12,969	55,971	46,083	77,341	192,363
Subtotal - Treated Lumber, BF	862,014	1,165,699	1,905,904	633,796	4,567,413	35,133	59,856	131,474	39,139	265,601	897,147	1,225,555	2,037,377	672,935	4,833,014
Total, BF	874,137	1,216,860	1,950,273	706,780	4,748,050	35,978	64,667	133,187	43,495	277,328	910,115	1,281,527	2,083,460	750,275	5,025,377
Deck Surfaces															
Lumber - Regular, BF	12,123	51,160	44,369	72,984	180,636	845	4,811	1,714	4,357	11,727	12,969	55,971	46,083	77,341	192,363
Lumber - Treated, BF	113,381	165,282	289,556	49,016	617,236	6,278	8,719	23,931	4,379	43,307	119,659	174,001	313,487	53,395	660,543
PVC / Vinyl / Fiberglass, BF	17,734	14,482	38,344	27,937	98,497	181	164	1,091	1,292	2,729	17,916	14,646	39,436	29,229	101,227
Wood / Plastic composite, BF	61,500	42,327	45,470	50,195	199,493	338	108	759	1,606	2,811	61,838	42,435	46,229	51,801	202,304
Total Deck Surface Material, BF	204,740	273,251	417,740	200,132	1,095,862	7,643	13,802	27,495	11,634	60,574	212,382	287,053	445,235	211,766	1,156,436
PORCHES															
Lumber - Regular, BF															
2x4s (Porch Roofs & Breezeways)	41,910	45,218	155,975	80,190	323,292	4,223	2,825	8,761	5,877	21,687	46,133	48,044	164,736	86,067	344,979
2x8s (Porch Floors & Breezeways)	57,734	60,153	209,924	99,921	427,732	6,267	3,629	11,981	7,978	29,855	64,000	63,782	221,905	107,899	457,587
Posts	12,548	13,589	42,227	19,956	88,321	1,837	1,081	3,481	2,516	8,915	14,386	14,670	45,708	22,472	97,236
Boards	11,085	12,931	49,089	32,363	105,469	771	910	2,318	2,013	6,012	11,856	13,842	51,407	34,376	111,480
Lumber - Treated, BF															
Boards	19,343	18,021	57,836	14,741	109,940	2,941	1,009	4,333	2,476	10,758	22,284	19,029	62,169	17,216	120,698
Subtotal - Lumber, BF	123,276	131,892	457,215	232,430	944,814	13,098	8,446	26,541	18,384	66,468	136,374	140,338	483,756	250,814	1,011,282
Subtotal - Treated Lumber, BF	19,343	18,021	57,836	14,741	109,940	2,941	1,009	4,333	2,476	10,758	22,284	19,029	62,169	17,216	120,698
Total, BF	142,620	149,913	515,051	247,171	1,054,754	16,039	9,454	30,874	20,859	77,227	158,659	159,367	545,925	268,030	1,131,981
Porch Surfaces															
Lumber - Regular, BF	11,085	12,931	49,089	32,363	105,469	771	910	2,318	2,013	6,012	11,856	13,842	51,407	34,376	111,480
Lumber - Treated, BF	19,343	18,021	57,836	14,741	109,940	2,941	1,009	4,333	2,476	10,758	22,284	19,029	62,169	17,216	120,698
Plastic and Composites, BF	14,924	8,829	35,096	32,497	91,347	549	516	878	930	2,873	15,473	9,345	35,974	33,427	94,220
Concrete / Brick / Stone / Tiles, BF	8,648	19,822	71,078	42,093	141,641	81	934	2,323	925	4,263	8,730	20,756	73,401	43,018	145,904
Total Porch Surface Material, BF	54,001	59,603	213,099	121,694	448,397	4,342	3,369	9,853	6,343	23,906	58,343	62,972	222,951	128,037	472,303
FENCES AND LANDSCAPE WALLS															
Lumber - Treated, BF	160,956	315,867	912,232	386,120	1,775,175	14,211	15,353	64,725	76,691	170,980	175,167	331,220	976,957	462,811	1,946,155
FENCING TYPE / MATERIAL															
Wood -- vert boards on alt sides, BF	29,128	90,174	177,879	66,728	363,909	58	3,589	20,012	8,598	32,256	29,186	93,763	197,891	75,325	396,165
Wood -- vert boards on one side, BF	63,870	128,007	447,114	210,261	849,252	4,687	5,452	7,129	31,782	49,049	68,557	133,459	454,243	242,043	898,301
Wood w/ horiz rails / boards, BF	21,149	23,382	139,273	55,081	238,885	7,496	306	12,604	9,959	30,365	28,645	23,688	151,877	65,040	269,250
Metal, BF equivalent	30,709	94,025	237,474	121,763	483,971	2,000	5,981	19,446	24,544	51,970	32,709	100,006	256,919	146,306	535,941
WPC, Vinyl, PVC, or other plast, BF equivalent	57,091	39,079	40,686	36,586	173,442	3,507	607	2,041	392	6,548	60,599	39,687	42,726	36,978	179,990
Stucco on wood frame, BF equivalent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stone (natural or synthetic), BF equivalent	5,903	1,048	4,171	2,203	13,324	0	0	0	0	0	5,903	1,048	4,171	2,203	13,324
Brick, BF equivalent	0	24	1,395	6,857	8,277	0	207	2	0	210	0	232	1,398	6,857	8,487
Concrete (all types), BF equivalent	505	3,298	2,715	37,931	44,450	388	1,171	18	4	1,581	894	4,469	2,733	37,935	46,031
LANDSCAPE-RETAINING WALL TYPE / MATERIAL															
Wood timbers, BF	46,808	74,305	147,966	54,050	323,129	1,970	6,006	24,980	26,354	59,309	48,778	80,311	172,945	80,404	382,438
Stucco on wood frame, BF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stone (natural or synthetic), BF equivalent	177,108	195,663	180,775	198,748	752,294	945	6,482	14,617	7,977	30,020	178,053	202,144	195,392	206,725	782,314
Brick, BF equivalent	10,770	50,772	97,312	66,219	225,073	1,475	2,885	6,202	1,748	12,309	12,245	53,658	103,513	67,967	237,383
Concrete (all types), BF equivalent	100,467	233,352	255,491	333,673	922,983	565	10,504	10,132	6,564	27,765	101,032	243,856	265,623	340,237	950,748

[illegible]

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	US TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
STRUCTURAL SYSTEMS: FLOORS															
STRUCTURAL FLOOR MATERIAL - ALL FLOORS															
Square Feet of Floor															
Cast-in-place concrete	28.50%	28.98%	38.30%	44.63%	36.39%	15.12%	14.10%	47.27%	26.44%	32.65%	27.94%	28.63%	38.80%	43.54%	36.21%
Precast concrete	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Steel (all types)	1.13%	1.36%	3.27%	3.75%	2.65%	7.72%	0.15%	0.22%	1.97%	1.89%	1.40%	1.34%	3.10%	3.64%	2.61%
Lumber joists	44.22%	49.33%	46.39%	26.59%	41.50%	63.89%	16.40%	49.74%	24.40%	40.50%	45.03%	48.56%	46.58%	26.46%	41.45%
Wood I-joists	19.07%	14.61%	8.17%	20.61%	14.53%	10.15%	4.71%	1.81%	38.64%	15.24%	18.70%	14.38%	7.82%	21.68%	14.57%
Open web wood truss	6.57%	4.92%	2.85%	2.19%	3.73%	3.12%	64.64%	0.96%	3.95%	8.22%	6.43%	6.32%	2.74%	2.29%	3.95%
Structural insulated panels	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Other wood	0.52%	0.79%	1.02%	2.23%	1.20%	0.00%	0.00%	0.00%	4.61%	1.49%	0.50%	0.77%	0.97%	2.38%	1.21%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
STRUCTURAL FLOOR MATERIAL - GROUND FLOOR															
Square Feet of Floor															
Cast-in-place concrete	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Precast concrete	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Steel (all types)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Lumber joists	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Wood I-joists	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Open web wood truss	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Structural insulated panels	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Other wood	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TOTAL	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
STRUCTURAL FLOOR MATERIAL - UPPER FLOORS															
Square Feet of Floor															
Cast-in-place concrete	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Precast concrete	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Steel (all types)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Lumber joists	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Wood I-joists	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Open web wood truss	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Structural insulated panels	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Other wood	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TOTAL	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
SPECIES OF LUMBER JOISTS															
Square Feet of 1st & 2nd Story Area															
Southern yellow pine (SYP)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Douglas fir or hem fir	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Spruce / Pine / Fir (SPF) or eastern spruce	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Other	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TOTAL	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	US TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
STRUCTURAL SYSTEMS: WALLS															
EXTERIOR WALL MATERIAL - ALL FLOORS															
Linear Feet of Exterior Wall															
Wood	92.54%	96.29%	93.92%	94.06%	94.32%	99.53%	92.70%	99.68%	99.96%	98.20%	93.05%	96.12%	94.17%	94.51%	94.54%
Masonry	1.55%	1.10%	2.23%	0.97%	1.54%	0.39%	6.13%	0.27%	0.03%	1.51%	1.47%	1.34%	2.14%	0.90%	1.54%
Steel	5.91%	2.61%	3.85%	4.97%	4.15%	0.08%	1.17%	0.05%	0.01%	0.29%	5.48%	2.54%	3.69%	4.59%	3.92%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
SPECIES OF LIGHT FRAME EXTERIOR WALL															
Linear Feet Light Frame Exterior Wall															
Lamin. strand lumber (Timberstrand)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Finger-jointed (any species)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Southern yellow pine (SYP)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Douglas fir, hem-fir	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Spruce / Pine / Fir (SPF) or eastern spruce	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Other	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Don't know	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TOTAL	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
STRUCTURAL SYSTEMS: ROOF FRAMING															
ROOF FRAME MATERIAL															
Square Feet of Roof Footprint															
Lumber	96.55%	96.80%	90.74%	88.40%	92.22%	88.53%	97.21%	99.46%	99.82%	98.27%	96.42%	96.82%	91.09%	88.85%	92.46%
I-joists	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Steel	1.98%	1.94%	5.31%	9.36%	5.22%	0.46%	2.05%	0.21%	0.07%	0.67%	1.96%	1.94%	5.11%	8.98%	5.05%
Structural insulated panels	1.47%	1.26%	3.95%	2.25%	2.55%	11.01%	0.74%	0.33%	0.11%	1.07%	1.62%	1.24%	3.80%	2.16%	2.50%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
SPECIES OF ROOF TRUSSES															
Square Feet of Roof Footprint															
Southern yellow pine	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Douglas fir or hem-fir	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Spruce / Pine / Fir	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Other	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Don't know	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TOTAL	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
SPECIES OF ROOF RAFTER															
Square Feet of Roof Footprint															
Southern yellow pine	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Douglas fir or hem-fir	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Spruce / Pine / Fir	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Other	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Don't know	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TOTAL	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	US TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
BEAMS															
FLOOR & ROOF BEAMS -- ALL FLOORS															
Linear Feet of Beam															
Built-up dimension lumber	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Solid wood beams	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Glulam	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LVL	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Timberstrand	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Parallam	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Steel	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Open web joist	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Girder truss	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
I-joist	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Other	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TOTAL	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
RIM BOARD FOR WOODEN I-JOISTS															
Linear Feet of Exterior Wall															
Timberstrand	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Plywood	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OSB	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dimension lumber	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
LVL	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Wooden I-joist with blocking	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Re-sawn glulam	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TOTAL	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
HEADERS															
WINDOW, DOOR AND GARAGE DOOR HEADERS															
Linear Feet of Headers															
Built-up dimension lumber	74.65%	74.65%	65.49%	37.34%	67.34%	74.65%	74.65%	65.49%	37.34%	67.62%	74.65%	74.65%	65.49%	37.34%	67.36%
Solid wood beams	8.67%	8.67%	20.55%	45.36%	16.90%	8.67%	8.67%	20.55%	45.36%	16.61%	8.67%	8.67%	20.55%	45.36%	16.89%
Glulam	1.14%	1.14%	4.74%	15.58%	3.98%	1.14%	1.14%	4.74%	15.58%	3.88%	1.14%	1.14%	4.74%	15.58%	3.98%
Wood I-joists -- single	3.89%	3.89%	0.00%	0.00%	2.06%	3.89%	3.89%	0.00%	0.00%	2.11%	3.89%	3.89%	0.00%	0.00%	2.06%
Wood I-joists -- doubled	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
LVL -- single	0.87%	0.87%	1.32%	0.00%	0.94%	0.87%	0.87%	1.32%	0.00%	0.94%	0.87%	0.87%	1.32%	0.00%	0.94%
LVL -- doubled	2.96%	2.96%	1.32%	1.71%	2.23%	2.96%	2.96%	1.32%	1.71%	2.25%	2.96%	2.96%	1.32%	1.71%	2.23%
Parallam	1.89%	1.89%	0.00%	0.00%	1.00%	1.89%	1.89%	0.00%	0.00%	1.02%	1.89%	1.89%	0.00%	0.00%	1.00%
Concrete	0.00%	0.00%	2.00%	0.00%	0.73%	0.00%	0.00%	2.00%	0.00%	0.72%	0.00%	0.00%	2.00%	0.00%	0.73%
Steel	5.93%	5.93%	4.58%	0.00%	4.81%	5.93%	5.93%	4.58%	0.00%	4.85%	5.93%	5.93%	4.58%	0.00%	4.81%
Timberstrand	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Glued & nailed box	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Wood truss	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Fitch plate beams	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	US TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
SHEATHING: FLOOR															
FLOOR SHEATHING - ALL FLOORS - WASTE INCLUDED															
Square Feet of All Floors															
None - slab or SIPs	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Plywood	68.65%	66.23%	78.94%	63.63%	70.84%	95.64%	85.04%	92.84%	92.58%	92.72%	70.16%	66.53%	79.86%	65.70%	72.01%
OSB	25.39%	31.57%	16.68%	25.96%	23.82%	4.36%	14.96%	6.31%	7.42%	6.88%	24.22%	31.31%	15.99%	24.64%	22.91%
1x boards	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2x boards	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Other	5.96%	2.20%	4.38%	10.40%	5.34%	0.00%	0.00%	0.84%	0.00%	0.40%	5.63%	2.17%	4.15%	9.66%	5.08%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
SHEATHING: WALL															
WALL SHEATHING - WASTE INCLUDED															
Square Feet of Exterior Wall															
None (SIPs or other)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Plywood	64.62%	42.05%	54.98%	45.40%	51.28%	30.66%	51.98%	39.74%	36.85%	40.20%	63.19%	42.57%	53.95%	44.50%	50.52%
OSB	15.83%	40.40%	23.34%	36.68%	29.25%	8.30%	26.03%	23.62%	35.15%	26.48%	15.51%	39.64%	23.36%	36.52%	29.06%
XPS	5.98%	5.91%	4.74%	4.88%	5.27%	32.67%	3.32%	16.98%	4.30%	11.58%	7.11%	5.77%	5.57%	4.82%	5.70%
EPS	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
ISO	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1/2 inch fiberboard	4.94%	3.46%	6.36%	5.46%	5.19%	28.37%	13.95%	11.20%	23.70%	17.76%	5.93%	4.02%	6.69%	7.38%	6.05%
Cementitious board	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fiber cement	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Gypsum	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1/8 inch foil faced (Thermoply, EnergyBrace)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1 inch boards	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Other	8.64%	8.18%	10.58%	7.58%	9.00%	0.00%	4.73%	8.46%	0.00%	3.98%	8.27%	8.00%	10.43%	6.78%	8.66%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
SHEATHING: ROOF															
ROOF SHEATHING - WASTE INCLUDED															
Square Feet of Sheathing															
None (SIPs or other)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Plywood	78.07%	53.73%	71.06%	54.79%	65.13%	38.23%	91.56%	65.42%	68.13%	64.23%	75.80%	54.93%	70.76%	56.06%	65.07%
OSB	17.05%	38.37%	18.63%	35.01%	26.10%	8.34%	8.44%	34.58%	31.10%	25.84%	16.55%	37.42%	19.48%	34.64%	26.08%
1 inch boards (3/4 inch actual), no spacing	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1 inch boards (3/4 inch actual), spaced	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2 inch boards (1 1/2 inch actual -- including	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Other	4.88%	7.90%	10.30%	10.20%	8.77%	53.43%	0.00%	0.00%	0.76%	9.93%	7.65%	7.65%	9.76%	9.31%	8.84%

[illegible]

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	US TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
EXTERIOR DOORS															
EXTERIOR DOOR MATERIAL															
Number of Doors															
Solid wood -- raised panel	15.91%	12.75%	17.99%	26.23%	17.67%	28.72%	15.04%	33.83%	36.98%	28.99%	17.35%	12.97%	19.13%	27.81%	18.79%
Wood -- flush	4.88%	3.45%	6.18%	12.78%	6.36%	15.68%	11.73%	8.40%	20.91%	14.00%	6.09%	4.25%	6.34%	13.97%	7.11%
Steel -- raised panel	51.68%	55.18%	47.91%	33.08%	47.94%	44.51%	55.36%	36.99%	25.80%	40.13%	50.88%	55.20%	47.12%	32.01%	47.17%
Steel -- flush	8.39%	13.25%	13.40%	11.13%	12.07%	8.15%	7.12%	16.09%	4.20%	9.13%	8.36%	12.66%	13.59%	10.12%	11.78%
Fiberglass	19.14%	15.37%	14.52%	16.78%	15.95%	2.93%	10.75%	4.70%	12.12%	7.75%	17.32%	14.92%	13.81%	16.09%	15.14%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
PATIO DOORS															
PATIO DOOR MATERIAL															
Number of Doors															
Wood	11.78%	11.17%	14.53%	14.25%	13.21%	24.79%	16.54%	26.70%	2.04%	15.97%	12.43%	11.45%	15.58%	12.78%	13.44%
Aluminum clad wood	6.65%	7.92%	6.27%	6.36%	6.72%	0.00%	4.34%	18.80%	16.58%	13.91%	6.32%	7.73%	7.35%	7.60%	7.30%
Vinyl clad wood	17.34%	18.41%	8.25%	6.02%	11.65%	0.00%	1.36%	6.34%	4.20%	4.16%	16.48%	17.54%	8.08%	5.80%	11.04%
Steel	4.81%	7.37%	14.46%	6.34%	9.14%	28.41%	10.06%	3.06%	8.94%	9.09%	5.99%	7.50%	13.47%	6.66%	9.13%
Aluminum	17.58%	14.76%	26.69%	13.99%	19.34%	0.00%	2.91%	8.64%	17.13%	10.06%	16.71%	14.15%	25.13%	14.37%	18.59%
Vinyl	31.65%	31.32%	19.38%	33.18%	27.60%	18.54%	3.25%	12.14%	18.15%	13.95%	31.00%	29.88%	18.75%	31.36%	26.50%
Composite/Fiberglass	7.47%	7.59%	5.75%	10.98%	7.73%	14.04%	32.62%	6.42%	29.67%	19.38%	7.80%	8.87%	5.80%	13.24%	8.67%
Other	2.70%	1.47%	4.68%	8.87%	4.61%	14.23%	28.92%	17.91%	3.29%	13.48%	3.27%	2.87%	5.83%	8.20%	5.33%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
INTERIOR DOORS															
INTERIOR DOOR MATERIAL															
Number of Doors															
Solid wood panel	30.82%	33.92%	24.07%	37.38%	30.58%	35.35%	24.68%	20.28%	26.40%	24.75%	31.02%	33.07%	23.76%	36.25%	30.10%
Solid wood with louvers	2.79%	2.03%	2.64%	1.29%	2.24%	2.55%	1.85%	1.37%	10.69%	4.21%	2.78%	2.01%	2.54%	2.26%	2.40%
Solid wood with glass unit(s)	6.68%	4.77%	9.47%	5.70%	7.00%	2.27%	9.40%	8.56%	2.09%	6.32%	6.48%	5.19%	9.39%	5.33%	6.95%
Hardboard panel	27.17%	25.13%	29.89%	23.71%	26.91%	32.12%	25.49%	32.74%	28.36%	29.54%	27.40%	25.16%	30.12%	24.19%	27.12%
Hardboard flush, hollow core	4.76%	8.59%	5.43%	5.93%	6.14%	12.78%	14.98%	9.78%	19.48%	14.17%	5.12%	9.17%	5.78%	7.33%	6.80%
Particleboard / MDF, solid core	16.06%	11.84%	14.38%	11.48%	13.49%	3.62%	9.23%	4.37%	3.74%	5.41%	15.49%	11.60%	13.56%	10.68%	12.83%
Plywood flush, hollow core	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Mirror on steel frame	3.90%	3.48%	2.47%	3.96%	3.31%	0.00%	0.00%	8.71%	0.00%	3.05%	3.72%	3.16%	2.98%	3.55%	3.29%
Steel (no mirror)	3.23%	5.08%	5.02%	2.90%	4.22%	5.52%	5.05%	0.09%	3.71%	2.99%	3.33%	5.08%	4.62%	2.99%	4.12%
Hardboard panel on steel frame	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Other	4.60%	5.17%	6.64%	7.64%	6.10%	5.78%	9.31%	14.10%	5.53%	9.57%	4.65%	5.55%	7.24%	7.42%	6.38%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
GARAGE DOORS															
GARAGE DOOR MATERIAL															
Number of Garage Doors															
Steel	46.27%	59.45%	70.17%	70.12%	61.82%	44.95%	77.01%	71.47%	72.43%	68.10%	46.22%	60.03%	70.22%	70.30%	62.12%
Wood	7.78%	4.79%	4.42%	6.01%	5.53%	55.05%	4.08%	14.05%	13.12%	19.14%	9.70%	4.77%	4.85%	6.59%	6.17%
Fiberglass or Plastic	40.73%	34.07%	22.07%	19.43%	29.21%	0.00%	18.91%	14.49%	14.45%	12.76%	39.08%	33.57%	21.73%	19.02%	28.44%
Other	5.21%	1.69%	3.34%	4.45%	3.43%	0.00%	0.00%	0.00%	0.00%	0.00%	5.00%	1.63%	3.19%	4.08%	3.27%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	US TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
INTERIOR FINISHES															
INTERIOR WALL FINISH															
Square Feet of Wall															
Plywood paneling -- 1/4	10.00%	7.63%	11.03%	9.64%	9.64%	14.69%	13.00%	10.23%	6.52%	10.26%	10.25%	7.83%	10.98%	9.26%	9.67%
Hardboard paneling -- 1/4	6.54%	6.65%	6.03%	5.81%	6.28%	13.28%	8.30%	4.63%	6.62%	7.49%	6.89%	6.71%	5.96%	5.91%	6.35%
Gypsum drywall -- 3/8	53.94%	57.74%	55.79%	50.61%	55.16%	52.71%	52.92%	62.76%	68.28%	61.11%	53.88%	57.56%	56.15%	52.75%	55.51%
Gypsum drywall -- 1/2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Cement board	3.03%	2.65%	3.50%	4.34%	3.29%	0.00%	3.26%	3.42%	1.08%	1.99%	2.87%	2.67%	3.49%	3.94%	3.21%
Gypsum drywall -- 5/8	21.73%	21.13%	19.75%	25.40%	21.43%	14.71%	16.42%	14.73%	11.43%	13.90%	21.37%	20.95%	19.49%	23.71%	20.98%
Gypsum drywall -- 3/4	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Lumber / Boards or shingles	1.55%	1.64%	1.00%	0.92%	1.28%	0.24%	0.20%	0.81%	0.81%	0.60%	1.48%	1.58%	0.99%	0.91%	1.24%
Other	3.21%	2.56%	2.90%	3.28%	2.93%	4.37%	5.91%	3.43%	5.26%	4.65%	3.27%	2.69%	2.93%	3.52%	3.03%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
INTERIOR CEILING FINISH															
Square Feet of Ceiling															
Plywood paneling -- 1/4	5.63%	4.40%	8.11%	5.22%	6.07%	29.61%	18.04%	3.90%	5.24%	10.49%	6.65%	4.95%	7.83%	5.22%	6.36%
Hardboard paneling -- 1/4	5.33%	9.13%	6.94%	6.68%	7.24%	0.00%	0.00%	0.00%	9.76%	2.98%	5.10%	8.76%	6.47%	7.12%	6.96%
Gypsum drywall -- 3/8	41.80%	37.14%	39.58%	43.27%	39.78%	16.27%	24.03%	90.07%	54.15%	56.62%	40.70%	36.62%	43.00%	44.81%	40.86%
Gypsum drywall -- 1/2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Cement board	1.69%	1.54%	1.18%	3.20%	1.66%	0.00%	0.55%	0.00%	7.02%	2.25%	1.62%	1.50%	1.10%	3.74%	1.70%
Gypsum drywall -- 5/8	18.32%	18.59%	10.40%	30.08%	17.13%	17.32%	22.76%	2.62%	14.99%	12.17%	18.28%	18.75%	9.87%	27.95%	16.81%
Gypsum drywall -- 3/4	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Lumber / Boards or shingles	2.13%	2.50%	1.68%	0.66%	1.90%	0.57%	0.00%	0.73%	1.06%	0.67%	2.06%	2.40%	1.62%	0.72%	1.82%
Acoustical ceiling tiles	12.63%	15.22%	17.83%	6.04%	14.41%	9.59%	19.05%	0.86%	4.15%	6.45%	12.50%	15.37%	16.67%	5.78%	13.89%
Other	12.47%	11.48%	14.28%	4.83%	11.82%	26.64%	15.57%	1.82%	3.63%	8.36%	13.08%	11.64%	13.43%	4.66%	11.60%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
FLOORING															
ALL FINISH FLOORING (Excludes Basements)															
Square Feet of Finished Floor Area															
Carpet	35.02%	43.43%	30.29%	35.64%	35.08%	41.58%	51.74%	42.88%	44.51%	44.75%	36.06%	44.51%	31.92%	36.92%	36.41%
Hardwood (solid)	17.07%	9.93%	11.95%	10.03%	12.02%	11.78%	6.16%	9.52%	9.39%	9.28%	16.24%	9.44%	11.63%	9.94%	11.64%
Ceramic tile	11.56%	10.05%	17.50%	17.04%	14.74%	4.79%	6.24%	11.01%	11.49%	8.88%	10.49%	9.55%	16.65%	16.24%	13.93%
Vinyl sheet	4.75%	5.06%	4.61%	4.46%	4.70%	6.25%	7.08%	7.36%	7.67%	7.14%	4.99%	5.32%	4.97%	4.93%	5.04%
Vinyl tile	7.18%	7.98%	8.31%	4.68%	7.28%	11.12%	13.53%	13.36%	7.07%	11.54%	7.80%	8.70%	8.97%	5.02%	7.87%
Hardwood (engineered)	4.99%	4.02%	4.79%	4.69%	4.64%	6.36%	3.76%	4.43%	3.63%	4.52%	5.21%	3.99%	4.74%	4.54%	4.62%
Laminate	12.64%	14.34%	17.39%	17.51%	15.92%	8.39%	6.06%	8.16%	11.56%	8.54%	11.97%	13.27%	16.19%	16.64%	14.90%
Slate	1.03%	0.72%	0.62%	0.78%	0.75%	0.41%	0.07%	0.48%	1.25%	0.55%	0.93%	0.63%	0.60%	0.85%	0.72%
Marble	0.82%	0.60%	1.00%	1.01%	0.89%	1.33%	0.35%	0.76%	1.28%	0.91%	0.90%	0.57%	0.97%	1.05%	0.89%
Other	4.93%	3.86%	3.55%	4.17%	3.99%	8.00%	5.01%	2.05%	2.15%	3.90%	5.42%	4.01%	3.36%	3.87%	3.98%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	US TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
CABINETS															
CABINET DOOR TYPE															
Number of Cabinets															
Wood finish, raised panel in frame	60.72%	60.78%	61.25%	58.66%	60.46%	25.30%	51.69%	59.80%	57.97%	50.05%	57.44%	59.99%	61.11%	58.60%	59.51%
Wood finish, flat panel in frame	20.07%	20.98%	15.44%	18.88%	18.44%	26.43%	23.39%	24.08%	21.28%	23.91%	20.66%	21.18%	16.29%	19.07%	18.94%
Glass panel in wood frame	3.96%	3.78%	5.83%	5.67%	4.93%	1.37%	7.86%	1.02%	2.30%	2.79%	3.72%	4.13%	5.35%	5.40%	4.74%
Laminate with raised panel look	6.06%	6.32%	5.09%	4.06%	5.35%	10.41%	5.15%	2.71%	3.46%	5.09%	6.46%	6.22%	4.86%	4.02%	5.33%
Wood finish, flat panel with no frame	4.18%	4.50%	6.09%	7.74%	5.69%	9.17%	1.93%	4.46%	6.40%	5.36%	4.64%	4.28%	5.93%	7.63%	5.66%
Laminate finish, flat panel with no frame	2.89%	1.44%	2.78%	2.21%	2.38%	13.85%	9.15%	4.35%	5.58%	7.72%	3.91%	2.11%	2.94%	2.49%	2.87%
Other	2.13%	2.20%	3.52%	2.77%	2.76%	13.47%	0.82%	3.57%	3.00%	5.08%	3.18%	2.08%	3.52%	2.79%	2.97%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
CABINET FRAME TYPE															
Number of Cabinets															
Frameless (European style)	19.28%	16.82%	20.18%	23.28%	19.92%	21.76%	12.20%	13.84%	21.38%	16.75%	19.51%	16.42%	19.56%	23.13%	19.63%
Face-framed (traditional)	78.11%	81.72%	78.16%	73.52%	77.92%	76.10%	87.43%	80.79%	77.68%	80.53%	77.92%	82.21%	78.42%	73.86%	78.15%
Other	2.62%	1.45%	1.66%	3.20%	2.16%	2.13%	0.37%	5.36%	0.95%	2.72%	2.57%	1.36%	2.02%	3.01%	2.21%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
CABINET BOX TYPE															
Number of Cabinets															
Wood veneer on particleboard / MDF	11.24%	11.24%	13.66%	4.28%	10.42%	11.24%	11.24%	13.66%	4.28%	10.42%	11.24%	11.24%	13.66%	4.28%	10.42%
Solid wood	54.07%	54.07%	50.05%	52.03%	51.76%	54.07%	54.07%	50.05%	52.03%	51.76%	54.07%	54.07%	50.05%	52.03%	51.76%
Plastic / Paper overlay / laminate on particleboard	23.16%	23.16%	18.25%	33.76%	23.88%	23.16%	23.16%	18.25%	33.76%	23.88%	23.16%	23.16%	18.25%	33.76%	23.88%
Plywood	11.24%	11.24%	18.01%	9.87%	13.84%	11.24%	11.24%	18.01%	9.87%	13.84%	11.24%	11.24%	18.01%	9.87%	13.84%
Other	0.28%	0.28%	0.03%	0.05%	0.11%	0.28%	0.28%	0.03%	0.05%	0.11%	0.28%	0.28%	0.03%	0.05%	0.11%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
COUNTERTOPS															
KITCHEN COUNTERTOP MATERIAL															
Linear Feet															
Solid Surface	17.99%	20.08%	16.21%	14.35%	16.95%	8.76%	13.30%	10.25%	21.39%	13.40%	17.21%	19.64%	15.81%	14.96%	16.69%
Laminate	34.82%	47.25%	30.90%	22.45%	33.21%	57.63%	72.32%	48.09%	41.68%	52.95%	36.74%	48.89%	32.04%	24.11%	34.68%
Ceramic Tile	2.35%	2.59%	8.10%	6.54%	5.50%	1.08%	0.51%	4.08%	12.43%	4.95%	2.24%	2.45%	7.84%	7.05%	5.45%
Cultured Marble	2.24%	1.04%	0.94%	0.19%	1.04%	5.41%	0.10%	8.74%	4.42%	5.29%	2.50%	0.98%	1.46%	0.56%	1.36%
Wood (butcher block)	1.81%	1.59%	3.13%	2.15%	2.34%	5.29%	5.14%	5.86%	6.79%	5.85%	2.10%	1.82%	3.31%	2.55%	2.60%
Marble, stone, and other	14.75%	9.73%	12.08%	14.40%	12.61%	10.18%	5.98%	9.43%	2.09%	7.04%	14.36%	9.48%	11.90%	13.34%	12.20%
Granite	26.05%	17.72%	28.65%	39.91%	28.35%	11.65%	2.65%	13.55%	11.20%	10.52%	24.83%	16.74%	27.64%	37.43%	27.02%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
VANITY COUNTERTOP MATERIAL															
Linear Feet															
Solid Surface	21.55%	24.07%	19.64%	17.21%	20.42%	25.40%	22.49%	14.84%	52.66%	29.43%	21.74%	24.00%	19.30%	20.22%	21.01%
Laminate	20.04%	22.39%	18.08%	13.18%	18.24%	37.90%	34.89%	36.77%	7.93%	27.40%	20.90%	23.01%	19.43%	12.74%	18.84%
Ceramic Tile	6.68%	5.97%	5.01%	8.96%	6.47%	2.48%	4.34%	13.48%	7.32%	8.64%	6.48%	5.89%	5.62%	8.82%	6.61%
Cultured Marble	12.96%	17.52%	21.89%	13.89%	17.46%	6.67%	6.63%	9.13%	17.91%	11.20%	12.65%	16.98%	20.98%	14.23%	17.04%
Wood (butcher block)	1.32%	2.10%	1.11%	2.70%	1.77%	0.68%	4.79%	18.86%	0.06%	8.30%	1.29%	2.23%	2.38%	2.47%	2.20%
Marble, stone, and other	37.45%	27.94%	34.26%	44.06%	35.65%	26.87%	26.86%	6.92%	14.12%	15.02%	36.94%	27.89%	32.30%	41.53%	34.29%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	US TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
ROOFING															
ROOFING MATERIAL (WITH WASTE FACTORS)															
Square Feet of Roofing															
Asphalt -- standard 3-tab	46.49%	59.60%	45.77%	55.33%	50.90%	61.60%	71.81%	70.50%	62.90%	67.74%	48.20%	60.80%	48.18%	56.25%	52.65%
Asphalt -- architectural grade	38.21%	28.56%	29.48%	18.60%	28.88%	11.66%	5.22%	8.40%	2.32%	7.07%	35.21%	26.28%	27.43%	16.63%	26.61%
Cedar shingles	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Cedar shakes	4.08%	2.35%	3.82%	2.43%	3.27%	9.18%	11.03%	3.91%	12.62%	8.08%	4.66%	3.20%	3.83%	3.66%	3.77%
Aluminum	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Clay roof tiles	0.11%	0.80%	1.82%	5.68%	1.93%	0.00%	0.00%	0.33%	3.99%	0.93%	0.10%	0.72%	1.68%	5.47%	1.82%
Concrete roof tiles	0.00%	0.18%	1.98%	3.55%	1.47%	3.16%	0.00%	0.00%	0.00%	0.55%	0.36%	0.16%	1.78%	3.12%	1.37%
Fiber cement	0.75%	0.44%	0.79%	1.22%	0.77%	1.25%	1.45%	0.00%	0.60%	0.65%	0.81%	0.54%	0.72%	1.15%	0.76%
Slate	1.69%	0.97%	1.14%	1.54%	1.26%	2.31%	1.35%	0.00%	3.34%	1.35%	1.76%	1.01%	1.03%	1.76%	1.27%
Copper	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Steel	6.71%	4.51%	11.77%	7.97%	8.51%	0.62%	1.51%	11.22%	4.17%	5.90%	6.02%	4.22%	11.71%	7.51%	8.24%
Built-up asphalt	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Single-ply (EPDM, vinyl, modified bitumen)	1.95%	2.58%	3.43%	3.67%	3.01%	10.22%	7.64%	5.63%	10.05%	7.73%	2.89%	3.07%	3.64%	4.44%	3.51%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
SIDING															
SIDING MATERIAL (WITH WASTE FACTORS)															
Square Feet of Siding															
Plywood Panels	2.71%	1.99%	4.10%	8.21%	3.87%	1.90%	5.97%	2.57%	7.00%	4.18%	2.63%	2.36%	3.93%	8.04%	3.91%
Hardboard	0.10%	1.06%	0.49%	1.63%	0.75%	0.00%	0.00%	0.00%	0.00%	0.00%	0.09%	0.96%	0.44%	1.40%	0.67%
Lumber	7.45%	5.16%	7.75%	8.24%	7.04%	4.43%	3.43%	9.81%	3.15%	5.93%	7.14%	5.00%	7.97%	7.53%	6.92%
Cedar Shingles	3.71%	0.22%	1.72%	2.17%	1.76%	0.86%	0.13%	0.10%	0.09%	0.24%	3.43%	0.21%	1.55%	1.88%	1.60%
OSB	0.64%	0.19%	1.30%	0.99%	0.81%	0.00%	0.00%	0.00%	0.00%	0.00%	0.57%	0.17%	1.16%	0.85%	0.72%
Other wood	0.02%	0.06%	0.25%	0.85%	0.24%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.06%	0.22%	0.73%	0.22%
Brick	1.06%	2.89%	3.04%	0.61%	2.23%	0.52%	0.11%	0.47%	4.94%	1.34%	1.00%	2.63%	2.76%	1.21%	2.14%
Natural Stone	0.75%	1.20%	0.88%	2.46%	1.19%	0.00%	0.00%	0.00%	0.00%	0.00%	0.67%	1.09%	0.79%	2.11%	1.06%
Manufactured Stone	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Cement Stucco	1.93%	0.57%	10.66%	25.99%	8.51%	8.46%	5.35%	5.17%	29.23%	10.87%	2.58%	1.01%	10.07%	26.45%	8.76%
Synthetic Stucco	1.02%	0.16%	1.97%	3.26%	1.48%	0.16%	0.03%	0.14%	1.56%	0.42%	0.93%	0.15%	1.77%	3.03%	1.36%
Concrete block	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fiber Cement	2.81%	5.53%	17.26%	11.51%	10.26%	3.48%	0.74%	14.49%	10.10%	8.32%	2.88%	5.09%	16.96%	11.31%	10.05%
Vinyl	71.13%	73.88%	42.87%	23.95%	54.15%	63.79%	66.26%	58.74%	22.07%	53.72%	70.40%	73.19%	44.58%	23.69%	54.10%
Aluminum	4.57%	3.62%	2.26%	2.28%	3.09%	16.39%	13.19%	8.51%	9.66%	11.29%	5.75%	4.49%	2.93%	3.31%	3.97%
Steel	0.09%	2.04%	1.69%	3.06%	1.69%	0.00%	0.00%	0.00%	0.00%	0.00%	0.08%	1.85%	1.51%	2.63%	1.51%
Other Metal & Plastic	2.02%	1.42%	3.76%	4.79%	2.92%	0.00%	4.79%	0.00%	12.19%	3.69%	1.82%	1.73%	3.35%	5.82%	3.01%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

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	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	US TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
SHUTTERS & ORNAMENTAL TRIM															
SHUTTER MATERIAL															
Pairs of Shutters															
Wood	15.43%	12.82%	20.93%	37.76%	21.18%	33.89%	5.05%	59.24%	47.29%	46.83%	15.74%	12.53%	22.79%	38.14%	22.20%
Plastic	80.14%	82.10%	59.76%	59.97%	67.22%	66.11%	94.95%	40.76%	37.00%	50.73%	79.91%	82.58%	58.84%	59.06%	66.57%
Other	4.42%	5.08%	19.31%	2.27%	11.60%	0.00%	0.00%	0.00%	15.71%	2.43%	4.35%	4.89%	18.37%	2.80%	11.23%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
INTERIOR MOULDING MATERIAL (98 DATA)															
Linear Feet of Moulding															
Oak	20.32%	20.32%	22.53%	12.39%	18.86%	20.32%	20.32%	22.53%	12.39%	18.86%	20.32%	20.32%	22.53%	12.39%	18.86%
Other hardwood	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Finger-jointed pine	54.68%	54.68%	52.47%	62.61%	56.14%	54.68%	54.68%	52.47%	62.61%	56.14%	54.68%	54.68%	52.47%	62.61%	56.14%
Solid pine	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Veneer Clad Wood	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Vinyl clad wood	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Medium density fiberboard	25.00%	25.00%	25.00%	25.00%	25.00%	25.00%	25.00%	25.00%	25.00%	25.00%	25.00%	25.00%	25.00%	25.00%	25.00%
Foam Plastic	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Ceramic Tile (baseboard)	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Other	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
EXTERIOR ORNAMENTAL TRIM MATERIAL															
Board Feet of Trim															
Solid wood / Lumber ornamental trim	50.44%	46.56%	52.04%	60.71%	52.25%	60.94%	64.14%	79.32%	78.33%	73.04%	51.15%	47.11%	53.43%	62.37%	53.48%
Plywood / LVL ornamental trim	3.25%	3.16%	1.50%	1.62%	2.23%	0.03%	0.03%	0.01%	0.02%	0.02%	3.03%	3.06%	1.42%	1.47%	2.10%
Hardboard or MDF ornamental trim	3.52%	1.82%	1.37%	4.38%	2.48%	5.85%	4.88%	8.70%	8.75%	7.63%	3.68%	1.92%	1.74%	4.79%	2.79%
Stucco on foam board ornamental trim	0.54%	0.58%	2.82%	1.34%	1.59%	0.06%	0.05%	0.01%	0.03%	0.04%	0.50%	0.56%	2.67%	1.21%	1.50%
Urethane plastic ornamental trim	1.19%	1.66%	2.29%	7.53%	2.96%	0.07%	0.06%	0.01%	0.03%	0.04%	1.12%	1.61%	2.17%	6.83%	2.78%
Vinyl (wrap) ornamental trim	32.94%	30.93%	25.22%	13.08%	25.61%	10.74%	30.55%	11.88%	12.67%	13.92%	31.43%	30.92%	24.54%	13.04%	24.92%
Fiber cement ornamental trim	0.88%	1.10%	4.70%	4.14%	3.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.82%	1.07%	4.46%	3.75%	2.88%
Wood / PLASTIC composite ornamental trim	3.54%	4.26%	7.38%	5.30%	5.54%	0.25%	0.21%	0.05%	0.12%	0.14%	3.31%	4.13%	7.01%	4.81%	5.22%
OSB ornamental trim	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aluminum (wrap) ornamental trim	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Steel ornamental trim	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Cellular PVC or solid vinyl ornamental trim	3.58%	0.64%	1.49%	0.37%	1.51%	0.09%	0.08%	0.02%	0.04%	0.05%	3.34%	0.62%	1.41%	0.34%	1.42%
Other ornamental trim	0.13%	9.29%	1.20%	1.52%	2.76%	21.96%	0.00%	0.00%	0.00%	5.13%	1.61%	9.00%	1.14%	1.38%	2.90%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

	OWNER OCCUPIED					RENTER OCCUPIED					TOTAL REMODELING				
	NORTHEAST	MIDWEST	SOUTH	WEST	US TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL	NORTHEAST	MIDWEST	SOUTH	WEST	U S TOTAL
OUTDOOR STRUCTURES															
PATIO MATERIAL															
Square Feet															
Poured concrete	31.92%	46.56%	34.81%	60.67%	45.25%	11.87%	39.69%	36.16%	67.34%	41.54%	31.39%	45.96%	34.93%	60.92%	45.01%
Concrete pavers	37.68%	31.71%	31.46%	12.59%	26.13%	20.39%	13.29%	45.28%	26.93%	31.89%	37.22%	30.10%	32.75%	13.13%	26.50%
Brick pavers	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Natural stone	14.14%	11.58%	13.93%	13.25%	13.29%	67.74%	11.65%	4.72%	0.00%	9.42%	15.55%	11.59%	13.08%	12.75%	13.04%
Brick or clay tiles	14.02%	6.78%	12.55%	5.81%	9.43%	0.00%	28.18%	13.84%	3.75%	14.88%	13.65%	8.65%	12.67%	5.73%	9.78%
Treated wood block	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Other	2.24%	3.37%	7.24%	7.68%	5.90%	0.00%	7.19%	0.00%	1.98%	2.27%	2.18%	3.71%	6.57%	7.46%	5.67%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
DECK MATERIAL															
Square Feet															
Treated wood	55.38%	60.49%	69.32%	24.49%	56.32%	82.14%	63.17%	87.04%	37.64%	71.49%	56.34%	60.62%	70.41%	25.21%	57.12%
Cedar	2.92%	9.36%	1.63%	5.14%	4.44%	0.00%	7.33%	4.14%	23.73%	8.11%	2.81%	9.27%	1.79%	6.16%	4.63%
Redwood	0.77%	4.86%	5.14%	22.69%	7.46%	3.17%	22.67%	0.29%	1.42%	5.97%	0.85%	5.71%	4.84%	21.52%	7.38%
Other untreated wood	2.24%	4.50%	3.85%	8.64%	4.59%	7.88%	4.86%	1.80%	12.30%	5.28%	2.44%	4.52%	3.72%	8.84%	4.62%
PVC, vinyl, or fiberglass	8.66%	5.30%	1.98%	13.96%	8.99%	2.37%	1.19%	3.97%	11.11%	4.51%	8.44%	5.10%	8.86%	13.80%	8.75%
Wood / Plastic composite (Trex, etc.)	30.04%	15.49%	10.88%	25.08%	18.20%	4.42%	0.78%	2.76%	13.80%	4.64%	29.12%	14.78%	10.38%	24.46%	17.49%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
PORCH MATERIAL															
Square Feet															
Treated wood	49.88%	43.11%	39.10%	19.03%	35.94%	85.25%	41.57%	58.39%	51.23%	59.34%	52.77%	43.03%	40.02%	20.92%	37.25%
Cedar	0.24%	5.16%	2.70%	1.38%	2.39%	0.24%	0.00%	0.34%	7.73%	2.25%	0.24%	4.88%	2.58%	1.76%	2.38%
Redwood	0.25%	1.64%	1.87%	5.35%	2.51%	0.00%	0.00%	0.00%	0.00%	0.00%	0.23%	1.55%	1.78%	5.04%	2.37%
Other untreated wood	5.97%	2.02%	6.51%	12.94%	7.46%	0.00%	15.39%	8.78%	11.80%	8.80%	5.49%	2.75%	6.62%	12.87%	7.53%
Tiles: brick or clay	2.11%	1.55%	3.45%	1.96%	2.64%	0.00%	0.00%	0.00%	0.00%	0.00%	1.94%	1.46%	3.28%	1.85%	2.50%
Plastic and composites	27.64%	14.81%	16.47%	26.70%	20.25%	12.63%	15.32%	8.91%	14.66%	12.01%	26.41%	14.84%	16.11%	26.00%	19.79%
Brick & stone	1.15%	2.55%	4.09%	4.70%	3.66%	0.00%	0.00%	0.00%	0.00%	0.00%	1.06%	2.41%	3.90%	4.42%	3.46%
Concrete	12.75%	29.16%	25.81%	27.93%	25.15%	1.87%	27.73%	23.58%	14.58%	17.60%	11.86%	29.08%	25.71%	27.14%	24.73%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
WALKWAY MATERIAL															
Linear Feet															
Poured concrete	32.85%	44.07%	39.74%	45.70%	41.27%	3.71%	37.07%	20.76%	64.01%	28.39%	30.98%	43.59%	38.31%	46.28%	40.50%
Concrete paver	29.94%	22.32%	24.83%	19.03%	23.42%	51.31%	10.65%	35.00%	6.99%	27.74%	31.32%	21.51%	25.60%	18.65%	23.68%
Brick paver or brick / clay tiles	12.49%	7.24%	12.09%	13.06%	11.47%	41.04%	0.60%	9.50%	13.14%	13.65%	14.32%	6.78%	11.90%	13.06%	11.60%
Natural stone (include gravel or stone)	14.97%	17.18%	18.08%	15.67%	16.65%	3.94%	37.91%	33.95%	8.15%	25.39%	14.26%	18.62%	19.28%	15.43%	17.17%
Treated wood block	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Asphalt and other	9.75%	9.18%	5.26%	6.55%	7.19%	0.00%	13.78%	0.80%	7.71%	4.82%	9.12%	9.50%	4.92%	6.58%	7.04%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

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	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
HOUSING STOCK	5,662	2,605	8,267	4,086	12,353
TOTAL WOOD USAGE IN REPAIR AND REMODELING					
LUMBER & ENGINEERED LUMBER					
Lumber - Softwood					
Framing, BF	707,205	315,074	1,022,279	94,720	1,116,999
Boards, BF	164,909	82,125	247,034	30,991	278,025
Treated Framing, BF	786,533	403,229	1,189,762	131,868	1,321,630
Treated Boards, BF	118,263	45,623	163,886	17,849	181,735
Sawn Beams, BF	76,646	13,747	90,393	7,827	98,220
Logs, BF	na	na	na	na	na
Subtotal Lumber, BF	1,853,555	859,798	2,713,353	283,255	2,996,608
Engineered Lumber					
Glulam, BF	298	432	730	23	753
I-joist, BF equivalent	41,834	9,316	51,150	6,340	57,490
LVL, BF equivalent	673	1,062	1,736	56	1,792
Parallam™, BF equivalent	389	565	954	30	983
Timberstrand™, BF equivalent	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na
Subtotal Engineered Wood, BF equivalent	43,194	11,375	54,569	6,449	61,018
Total Lbr. & Eng. Lumber, BF equivalent	1,896,749	871,173	2,767,922	289,704	3,057,626
Hardwood lumber, BF	686,566	200,354	886,920	170,364	1,057,284
STRUCTURAL AND NONSTRUCTURAL PANELS					
Structural Panels, SF 3/8" Basis					
Softwood Plywood	482,924	138,352	621,276	54,329	675,605
Treated Plywood	na	na	na	na	na
OSB	113,599	65,677	179,276	11,098	190,374
Total Structural Panels, SF 3/8" basis	596,523	204,028	800,552	65,428	865,979
Nonstructural Wood Panels, SF 3/8" Basis					
Hardwood Plywood	68,707	24,329	93,036	13,938	106,974
MDF	10,753	3,765	14,518	2,009	16,527
Particleboard	108,890	53,151	162,041	29,928	191,969
Hardboard	54,218	21,366	75,584	7,838	83,422
Lauan	na	na	na	na	na
Fiberboard	16,670	8,758	25,428	2,513	27,941
Total Non-Str'l Wood Panels, SF 3/8" basis	259,237	111,369	370,606	56,226	426,832
Total Panels, SF 3/8" basis equivalent	855,760	315,397	1,171,158	121,654	1,292,812

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
WOOD USAGE IN FLOOR SYSTEMS					
LUMBER & ENGINEERED LUMBER					
Lumber - Softwood					
Framing, BF	100,091	36,943	137,034	21,711	158,745
Boards, BF	na	na	na	na	na
Treated Framing, BF	na	na	na	na	na
Treated Boards, BF	na	na	na	na	na
Sawn Beams, BF	na	na	na	na	na
Logs, BF	na	na	na	na	na
Subtotal Lumber, BF	100,091	36,943	137,034	21,711	158,745
Engineered Lumber					
Glulam, BF	na	na	na	na	na
I-joist, BF equivalent	41,417	8,712	50,129	6,308	56,437
LVL, BF equivalent	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na
Subtotal Engineered Wood, BF equivalent	41,417	8,712	50,129	6,308	56,437
Total Lbr. & Eng. Lumber, BF equivalent	141,508	45,655	187,163	28,019	215,182
Concrete, BF equivalent	34,681	20,036	54,717	4,375	59,092
Steel, BF equivalent	16,296	3,145	19,441	96	19,537
Total Material, BF equivalent	192,485	68,836	261,321	32,489	293,811
STRUCTURAL AND NONSTRUCTURAL PANELS					
Structural Panels, SF 3/8" Basis					
Softwood Plywood	233,608	84,826	318,434	15,026	333,460
Treated Plywood	na	na	na	na	na
OSB	43,158	22,678	65,836	1,372	67,208
Total Structural Panels, SF 3/8" basis	276,767	107,504	384,270	16,398	400,668
Nonstructural Wood Panels, SF 3/8" Basis					
Hardwood Plywood	na	na	na	na	na
MDF	na	na	na	na	na
Particleboard	na	na	na	na	na
Hardboard	na	na	na	na	na
Lauan	na	na	na	na	na
Fiberboard	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	na	na	na	na	na
Total Panels, SF 3/8" basis equivalent	276,767	107,504	384,270	16,398	400,668
Concrete, SF 3/8" basis equivalent	0	0	0	0	0
Total Material, SF 3/8" basis equivalent	276,767	107,504	384,270	16,398	400,668

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
WOOD USAGE IN WALL SYSTEMS					
LUMBER & ENGINEERED LUMBER					
Lumber - Softwood					
Framing, BF	243,417	126,291	369,708	26,886	396,594
Boards, BF	na	na	na	na	na
Treated Framing, BF	5,032	3,280	8,312	407	8,719
Treated Boards, BF	na	na	na	na	na
Sawn Beams, BF	68,817	7,546	76,363	5,556	81,920
Logs, BF	na	na	na	na	na
Subtotal Lumber, BF	317,266	137,118	454,384	32,849	487,232
Engineered Lumber					
Glulam, BF	298	432	730	23	753
I-joist, BF equivalent	416	604	1,021	32	1,053
LVL, BF equivalent	673	1,062	1,736	56	1,792
Parallam™, BF equivalent	389	565	954	30	983
Timberstrand™, BF equivalent	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na
Subtotal Engineered Wood, BF equivalent	1,777	2,663	4,440	140	4,581
Total Lbr. & Eng. Lumber, BF equivalent	319,043	139,781	458,824	32,989	491,813
Concrete, BF equivalent	4,468	9,889	14,357	2,261	16,619
Steel - Exterior Walls, BF equivalent	15,658	695	16,353	20	16,373
Steel - Interior Walls, BF equivalent	na	na	na	na	na
Total Material, BF equivalent	339,169	150,365	489,534	35,271	524,805
STRUCTURAL AND NONSTRUCTURAL PANELS (Including Plywood in Box Beams)					
Structural Panels, SF 3/8" Basis					
Softwood Plywood	98,635	28,720	127,355	19,729	147,084
Treated Plywood	na	na	na	na	na
OSB	54,191	22,109	76,299	7,911	84,210
Total Structural Panels, SF 3/8" basis	152,825	50,829	203,654	27,639	231,293
Nonstructural Wood Panels, SF 3/8" Basis					
Hardwood Plywood	na	na	na	na	na
MDF	na	na	na	na	na
Particleboard	na	na	na	na	na
Hardboard	na	na	na	na	na
Lauan	na	na	na	na	na
Fiberboard	16,670	8,758	25,428	2,513	27,941
Total Non-Str'l Wood Panels, SF 3/8" basis	16,670	8,758	25,428	2,513	27,941
Total Panels, SF 3/8" basis equivalent	169,495	59,587	229,082	30,152	259,234
Concrete, SF 3/8" basis equivalent	na	na	na	na	na
Foam and Other, SF 3/8" basis equivalent	50,289	23,490	73,779	8,102	81,881
Total Material, SF 3/8" basis equivalent	219,784	83,077	302,861	38,255	341,116

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
WOOD USAGE IN ROOF SYSTEMS					
LUMBER & ENGINEERED LUMBER					
Lumber - Softwood					
Framing, BF	234,721	94,263	328,984	19,758	348,742
Boards, BF	na	na	na	na	na
Treated Framing, BF	na	na	na	na	na
Treated Boards, BF	na	na	na	na	na
Sawn Beams, BF	328	3,202	3,529	544	4,074
Logs, BF	na	na	na	na	na
Subtotal Lumber, BF	235,049	97,465	332,513	20,302	352,815
Engineered Lumber					
Glulam, BF	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na
Subtotal Engineered Wood, BF equivalent	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	235,049	97,465	332,513	20,302	352,815
Steel, BF equivalent	13,488	6,656	20,143	12	20,156
Total Material, BF equivalent	248,536	104,120	352,657	20,314	372,971
STRUCTURAL AND NONSTRUCTURAL PANELS					
Structural Panels, SF 3/8" Basis					
Softwood Plywood	136,623	17,518	154,141	8,221	162,362
Treated Plywood	na	na	na	na	na
OSB	16,036	20,812	36,848	1,816	38,664
Total Structural Panels, SF 3/8" basis	152,659	38,331	190,989	10,037	201,026
Nonstructural Wood Panels, SF 3/8" Basis					
Hardwood Plywood	na	na	na	na	na
MDF	na	na	na	na	na
Particleboard	na	na	na	na	na
Hardboard	na	na	na	na	na
Lauan	na	na	na	na	na
Fiberboard	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	na	na	na	na	na
Total Panels, SF 3/8" basis equivalent	152,659	38,331	190,989	10,037	201,026

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
WOOD USAGE IN FOUNDATIONS					
LUMBER & ENGINEERED LUMBER					
Lumber - Softwood					
Framing, BF	na	na	na	na	na
Boards, BF	na	na	na	na	na
Treated Framing, BF	na	na	na	na	na
Treated Boards, BF	na	na	na	na	na
Sawn Beams, BF	na	na	na	na	na
Logs, BF	na	na	na	na	na
Subtotal Lumber, BF	na	na	na	na	na
Engineered Lumber					
Glulam, BF	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na
Subtotal Engineered Wood, BF equivalent	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	na	na	na	na	na
Hardwood lumber, BF	na	na	na	na	na
STRUCTURAL AND NONSTRUCTURAL PANELS					
Structural Panels, SF 3/8" Basis					
Softwood Plywood	na	na	na	na	na
Treated Plywood	na	na	na	na	na
OSB	na	na	na	na	na
Total Structural Panels, SF 3/8" basis	na	na	na	na	na
Nonstructural Wood Panels, SF 3/8" Basis					
Hardwood Plywood	na	na	na	na	na
MDF	na	na	na	na	na
Particleboard	na	na	na	na	na
Hardboard	na	na	na	na	na
Lauan	na	na	na	na	na
Fiberboard	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	na	na	na	na	na
Total Panels, SF 3/8" basis equivalent	na	na	na	na	na

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
WOOD USAGE IN MILLWORK					
LUMBER & ENGINEERED LUMBER					
Lumber - Softwood					
Framing, BF *	65,007	28,848	93,855	13,610	107,464
Boards, BF **	111,826	60,561	172,387	23,141	195,528
Treated Framing, BF	na	na	na	na	na
Treated Boards, BF	na	na	na	na	na
Sawn Beams, BF	na	na	na	na	na
Logs, BF	na	na	na	na	na
Subtotal Lumber, BF	176,833	89,408	266,241	36,751	302,992
Engineered Lumber					
Glulam, BF	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na
Subtotal Engineered Wood, BF equivalent	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	176,833	89,408	266,241	36,751	302,992
Hardwood lumber, BF	686,566	200,354	886,920	170,364	1,057,284
STRUCTURAL AND NONSTRUCTURAL PANELS					
Structural Panels, SF 3/8" Basis					
Softwood Plywood	14,059	7,287	21,346	11,354	32,699
Treated Plywood	na	na	na	na	na
OSB	214	78	292	0	292
Total Structural Panels, SF 3/8" basis	14,273	7,365	21,638	11,354	32,992
Nonstructural Wood Panels, SF 3/8" Basis					
Hardwood Plywood	68,707	24,329	93,036	13,938	106,974
MDF	10,753	3,765	14,518	2,009	16,527
Particleboard	108,890	53,151	162,041	29,928	191,969
Hardboard	54,218	21,366	75,584	7,838	83,422
Lauan	na	na	na	na	na
Fiberboard	na	na	na	na	na
Subtotal Non-Str'l Wood Panels, SF 3/8"	242,567	102,611	345,178	53,713	398,891
Total Panels, SF 3/8" basis equivalent	256,840	109,976	366,816	65,067	431,883

* Millwork cut from stock greater than 1 inch

** Millwork cut from 1" stock or less, including beveled siding

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
WOOD USAGE IN OUTDOOR STRUCTURES					
LUMBER & ENGINEERED LUMBER					
Lumber - Softwood					
Framing, BF	63,969	28,729	92,698	12,757	105,454
Boards, BF	53,083	21,564	74,647	7,850	82,497
Treated Framing, BF	694,640	345,233	1,039,873	115,818	1,155,691
Treated Boards, BF	205,124	100,339	305,463	33,492	338,955
Sawn Beams, BF	7,501	2,999	10,500	1,726	12,227
Logs, BF	na	na	na	na	na
Subtotal Lumber, BF	1,024,317	498,864	1,523,181	171,643	1,694,824
Engineered Lumber					
Glulam, BF	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na
Subtotal Engineered Wood, BF equivalent	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	1,024,317	498,864	1,523,181	171,643	1,694,824
Hardwood lumber, BF	na	na	na	na	na
STRUCTURAL AND NONSTRUCTURAL PANELS*					
Structural Panels, SF 3/8" Basis					
Softwood Plywood	na	na	na	na	na
Treated Plywood	na	na	na	na	na
OSB	na	na	na	na	na
Total Structural Panels, SF 3/8" basis	na	na	na	na	na
Nonstructural Wood Panels, SF 3/8" Basis					
Hardwood Plywood	na	na	na	na	na
MDF	na	na	na	na	na
Particleboard	na	na	na	na	na
Hardboard	na	na	na	na	na
Lauan	na	na	na	na	na
Fiberboard	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	na	na	na	na	na
Total Panels, SF 3/8" basis equivalent	na	na	na	na	na
TOTAL WOOD USAGE IN FOUNDATION AND OUTDOOR STRUCTURE USAGE					
Total - Lumber, BF	124,553	53,292	177,845	22,332	200,177
Total - Treated Lumber, BF	899,764	445,572	1,345,336	149,310	1,494,646

* Sheathing over porches is included in roof sheathing.

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
WOOD USAGE IN ALL FRAMING (Excluding sheathing and millwork)					
TOTAL LUMBER - FOUNDATIONS, WALLS, FLOORS, ROOF, BEAMS, RIM BOARDS & OUTDOOR STRUCTURES					
Lumber - Regular, BF					
2x3s	na	na	na	na	na
2x4s	259,582	100,126	359,708	30,402	390,110
2x6s	148,837	69,717	218,554	15,476	234,030
2x8s	109,523	70,182	179,705	15,926	195,631
2x10s	79,842	30,482	110,324	13,392	123,716
2x12s	20,502	7,220	27,722	3,626	31,348
Boards	53,083	21,564	74,647	7,850	82,497
Solid Sawn Beams	76,646	13,747	90,393	7,827	98,220
Logs	na	na	na	na	na
Total Lumber - Regular, BF	748,013	313,038	1,061,052	94,500	1,155,551
Lumber - Treated, BF					
2x4s	181,174	87,863	269,037	29,380	298,417
2x6s	92,542	44,438	136,980	15,222	152,202
2x8s	113,107	54,314	167,420	18,605	186,025
2x10s	154,236	74,064	228,300	25,370	253,671
2x12s	51,412	24,688	76,100	8,457	84,557
Boards	118,263	45,623	163,886	17,849	181,735
Posts	20,339	8,430	28,769	3,548	32,316
Fencing & landscape timbers	173,723	109,432	283,155	31,286	314,441
Total Lumber - Treated, BF	904,795	448,853	1,353,648	149,717	1,503,365
TOTAL LUMBER AND ENGINEERED WOOD EQUIVALENTS USED IN FRAMING (Excluding boards)					
Lumber Equivalent					
Lumber, BF	1,576,163	748,144	2,324,307	236,389	2,560,696
Solid Sawn Beams, BF	76,646	13,747	90,393	7,827	98,220
Glulam, BF	298	432	730	23	753
I-joists, LF	20,917	4,658	25,575	3,170	28,745
I-joists, BF equivalent	41,834	9,316	51,150	6,340	57,490
LVL, Cubic Feet	42	66	108	4	112
LVL, BF equivalent	673	1,062	1,736	56	1,792
Parallam™, Cubic Feet	24	35	60	2	61
Parallam™, BF equivalent	389	565	954	30	983
Timberstrand™, LF	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
Plywood, BF equivalent	na	na	na	na	na
OSB, BF equivalent	na	na	na	na	na
Total Engineered Wood, BF Equivalent	43,194	11,375	54,569	6,449	61,018
Total Lbr. & Eng. Lumber, BF equivalent	1,696,003	773,266	2,469,269	250,665	2,719,934

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
All Data in Thousands					
WOOD USAGE IN FOUNDATIONS					
FOUNDATIONS					
WOOD FOUNDATION SYSTEMS					
Lumber - Treated, 2 x 6, BF	na	na	na	na	na
Lumber - Treated, 2 x 8, BF	na	na	na	na	na
Plywood - Treated, SF 3/8" Basis	na	na	na	na	na
MASONRY FOUNDATIONS					
Sill Plates - 2 x 6 Treated, BF	na	na	na	na	na
Support Posts - Treated, BF	na	na	na	na	na
Furring for Precast - Treated, BF	na	na	na	na	na
Temporary structures - 2 x 4, BF	na	na	na	na	na
TOTAL - Untreated Lumber, BF	na	na	na	na	na
TOTAL - Treated Lumber, BF	na	na	na	na	na

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
WOOD USAGE IN FLOOR FRAMING - ALL FLOORS					
FLOOR JOISTS - ALL FLOORS					
2 x 4s (Trusses), BF	6,950	4,144	11,094	5,236	16,330
2 x 8s, BF Lumber	5,314	1,871	7,185	940	8,125
2 x 10s, BF Lumber	67,325	23,709	91,033	11,908	102,942
2 x 12s, BF Lumber	20,502	7,220	27,722	3,626	31,348
Subtotal: Lumber in Floor Joists, BF	100,091	36,943	137,034	21,711	158,745
I-joists, LF	20,709	4,356	25,064	3,154	28,218
I-joists, BF equivalent	41,417	8,712	50,129	6,308	56,437
Total Lbr. & Eng. Lumber, BF equivalent	141,508	45,655	187,163	28,019	215,182
FLOOR BEAMS - ALL FLOORS					
Built-up Dimension Lumber, BF	na	na	na	na	na
Solid Sawn Beams, BF	na	na	na	na	na
Glulam, BF	na	na	na	na	na
LVL, Cubic Feet	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na
Timberstrand™, Cubic Feet	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
Parallam™, Cubic Feet	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na
I-joists, LF	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	na	na	na	na	na
RIM BOARDS FOR I-JOISTS - ALL FLOORS					
Lumber, BF	na	na	na	na	na
Timberstrand™, Cubic Feet	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
I-joist, LF	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na
LVL, Cubic Feet	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na
Glulam, BF	na	na	na	na	na
Plywood, 3/8 inch basis	na	na	na	na	na
Plywood, BF equivalent	na	na	na	na	na
OSB, 3/8 inch basis	na	na	na	na	na
OSB, BF equivalent	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	na	na	na	na	na
TOTAL WOOD USAGE IN FLOOR FRAMING (Excluding boards) - ALL FLOORS					
Lumber Equivalent					
Lumber, BF	100,091	36,943	137,034	21,711	158,745
Glulam, BF	na	na	na	na	na
I-joists, LF	20,709	4,356	25,064	3,154	28,218
I-joist, BF equivalent	41,417	8,712	50,129	6,308	56,437
LVL, Cubic Feet	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na
Parallam™, Cubic Feet	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na
Timberstrand™, Cubic Feet	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
Plywood - BF equivalent	na	na	na	na	na
OSB - BF equivalent	na	na	na	na	na
Total Engineered Wood, BF Equivalent	41,417	8,712	50,129	6,308	56,437
Total Lbr. & Eng. Lumber, BF equivalent	141,508	45,655	187,163	28,019	215,182

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
WOOD USAGE IN FLOOR FRAMING - GROUND FLOOR					
FLOOR JOISTS - GROUND FLOOR					
2 x 4s (Trusses), BF	na	na	na	na	na
2 x 8s, BF Lumber	na	na	na	na	na
2 x 10s, BF Lumber	na	na	na	na	na
2 x 12s, BF Lumber	na	na	na	na	na
Subtotal: Lumber in Floor Joists, BF	na	na	na	na	na
I-joists, LF	na	na	na	na	na
I-joists, BF equivalent	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	na	na	na	na	na
FLOOR BEAMS - GROUND FLOOR					
Built-up Dimension Lumber, BF	na	na	na	na	na
Solid Sawn Beams, BF	na	na	na	na	na
Glulam, BF	na	na	na	na	na
LVL, Cubic Feet	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na
Timberstrand™, Cubic Feet	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
Parallam™, Cubic Feet	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na
I-joists, LF	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	na	na	na	na	na
RIM BOARDS FOR I-JOISTS - GROUND FLOOR					
Lumber, BF	na	na	na	na	na
Timberstrand™, Cubic Feet	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
I-joist, LF	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na
LVL, Cubic Feet	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na
Glulam, BF	na	na	na	na	na
Plywood, 3/8 inch basis	na	na	na	na	na
Plywood, BF equivalent	na	na	na	na	na
OSB, 3/8 inch basis	na	na	na	na	na
OSB, BF equivalent	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	na	na	na	na	na
TOTAL WOOD USAGE IN FLOOR FRAMING (Excluding boards) - GROUND FLOOR					
Lumber Equivalent					
Lumber, BF	na	na	na	na	na
Glulam, BF	na	na	na	na	na
I-joists, LF	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na
LVL, Cubic Feet	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na
Parallam™, Cubic Feet	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na
Timberstrand™, Cubic Feet	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
Plywood - BF equivalent	na	na	na	na	na
OSB - BF equivalent	na	na	na	na	na
Total Engineered Wood, BF Equivalent	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	na	na	na	na	na

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
WOOD USAGE IN FLOOR FRAMING - UPPER FLOORS					
FLOOR JOISTS - UPPER FLOORS					
2 x 4s (Trusses), BF	na	na	na	na	na
2 x 8s, BF Lumber	na	na	na	na	na
2 x 10s, BF Lumber	na	na	na	na	na
2 x 12s, BF Lumber	na	na	na	na	na
Subtotal: Lumber in Floor Joists, BF	na	na	na	na	na
I-joists, LF	na	na	na	na	na
I-joists, BF equivalent	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	na	na	na	na	na
FLOOR BEAMS - UPPER FLOORS					
Built-up Dimension Lumber, BF	na	na	na	na	na
Solid Sawn Beams, BF	na	na	na	na	na
Glulam, BF	na	na	na	na	na
LVL, Cubic Feet	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na
Timberstrand™, Cubic Feet	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
Parallam™, Cubic Feet	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na
I-joists, LF	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	na	na	na	na	na
RIM BOARDS FOR I-JOISTS - UPPER FLOORS					
Lumber, BF	na	na	na	na	na
Timberstrand™, Cubic Feet	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
I-joist, LF	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na
LVL, Cubic Feet	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na
Glulam, BF	na	na	na	na	na
Plywood, 3/8 inch basis	na	na	na	na	na
Plywood, BF equivalent	na	na	na	na	na
OSB, 3/8 inch basis	na	na	na	na	na
OSB, BF equivalent	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	na	na	na	na	na
TOTAL WOOD USAGE IN FLOOR FRAMING (Excluding boards) - UPPER FLOORS					
Lumber Equivalent					
Lumber, BF	na	na	na	na	na
Glulam, BF	na	na	na	na	na
I-joists, LF	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na
LVL, Cubic Feet	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na
Parallam™, Cubic Feet	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na
Timberstrand™, Cubic Feet	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
Plywood - BF equivalent	na	na	na	na	na
OSB - BF equivalent	na	na	na	na	na
Total Engineered Wood, BF Equivalent	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	na	na	na	na	na

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
WOOD USAGE IN FLOOR SYSTEMS					
LUMBER & ENGINEERED LUMBER					
ALL FLOORS					
Total Lbr. & Eng. Lumber, BF equivalent	141,508	45,655	187,163	28,019	215,182
Concrete, BF equivalent	34,681	20,036	54,717	4,375	59,092
Steel, BF equivalent	16,296	3,145	19,441	96	19,537
Total Material, BF equivalent	192,485	68,836	261,321	32,489	293,811
GROUND FLOOR					
Total Lbr. & Eng. Lumber, BF equivalent	na	na	na	na	na
Concrete, BF equivalent	na	na	na	na	na
Steel, BF equivalent	na	na	na	na	na
Total Material, BF equivalent	na	na	na	na	na
UPPER FLOORS					
Total Lbr. & Eng. Lumber, BF equivalent	na	na	na	na	na
Concrete, BF equivalent	na	na	na	na	na
Steel, BF equivalent	na	na	na	na	na
Total Material, BF equivalent	na	na	na	na	na
STRUCTURAL AND NONSTRUCTURAL PANELS					
ALL FLOORS					
Total Panels, SF 3/8" basis equivalent	276,767	107,504	384,270	16,398	400,668
Concrete, SF 3/8" basis equivalent	0	0	0	0	0
Total Material, BF equivalent	276,767	107,504	384,270	16,398	400,668
GROUND FLOOR					
Total Panels, SF 3/8" basis equivalent	na	na	na	na	na
Concrete, SF 3/8" basis equivalent	na	na	na	na	na
Total Material, BF equivalent	na	na	na	na	na
UPPER FLOORS					
Total Panels, SF 3/8" basis equivalent	na	na	na	na	na
Concrete, SF 3/8" basis equivalent	na	na	na	na	na
Total Material, BF equivalent	na	na	na	na	na

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
WOOD USAGE IN WALL FRAMING					
WALL FRAMING					
2 x 4s Walls, BF	122,309	56,015	178,324	13,717	192,041
2 x 6s Walls, BF	93,163	41,716	134,878	10,377	145,256
Interior 2 x 3s Walls, BF	na	na	na	na	na
Interior 2 x 4s Walls, BF	na	na	na	na	na
Interior 2 x 6s Walls, BF	na	na	na	na	na
Treated plates on slabs	5,032	3,280	8,312	407	8,719
Blocking for drywall, 2 x 4, BF	4,917	2,252	7,169	551	7,720
Blocking for drywall, 2 x 6, BF	9,717	4,351	14,068	1,082	15,150
Subtotal: Dimension Lumber in Walls	235,137	107,614	342,751	26,134	368,886
Timberstrand™, BF equivalent	na	na	na	na	na
I-joists, LF or BF equivalent	na	na	na	na	na
Post and Beams, BF	67,271	5,073	72,344	5,426	77,770
Logs, BF	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	302,408	112,687	415,095	31,560	446,656
WINDOW AND DOOR HEADERS					
Lumber,BF(Blt-up,Open Web & Flitch Pl'te)	13,312	21,957	35,269	1,158	36,427
Solid Sawn Beams, BF	1,546	2,473	4,019	130	4,150
Glulam, BF	298	432	730	23	753
I-Joists, LF	208	302	510	16	526
I-joists, BF equivalent	416	604	1,021	32	1,053
LVL, Cubic Feet	42	66	108	4	112
LVL, BF equivalent	673	1,062	1,736	56	1,792
Parallam™, Cubic Feet	24	35	60	2	61
Parallam™, BF equivalent	389	565	954	30	983
Timberstrand™, Cubic Feet	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
Glued and Nailed Box Beams, BF Lumber	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	16,635	27,094	43,729	1,429	45,158
GARAGE DOOR HEADERS					
Lumber, BF (Blt-up,Open Web & Flitch Pl'te)	na	na	na	na	na
Solid Sawn Beams, BF	na	na	na	na	na
Glulam, BF	na	na	na	na	na
I-Joists, LF	na	na	na	na	na
I-joists, BF equivalent	na	na	na	na	na
LVL, Cubic Feet	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na
Parallam™, Cubic Feet	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na
Timberstrand™, Cubic Feet	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
Glued and Nailed Box Beams, BF Lumber	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	na	na	na	na	na
TOTAL WOOD USAGE IN WALL FRAMING (Excluding boards)					
Lumber Equivalent					
Lumber, BF	317,266	137,118	454,384	32,849	487,232
Glulam, BF	298	432	730	23	753
Timberstrand™, BF equivalent	na	na	na	na	na
I-joists, LF	208	302	510	16	526
I-joist, BF equivalent	416	604	1,021	32	1,053
LVL, Cubic Feet	42	66	108	4	112
LVL, BF equivalent	673	1,062	1,736	56	1,792
Parallam™, Cubic Feet	24	35	60	2	61
Parallam™, BF equivalent	389	565	954	30	983
Total Engineered Wood, BF Equivalent	1,777	2,663	4,440	140	4,581
Total Lbr. & Eng. Lumber, BF equivalent	319,043	139,781	458,824	32,989	491,813

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
WOOD USAGE IN ROOF FRAMING					
TRUSSES, RAFTERS AND CEILING JOISTS					
2 x 4s (Trusses), BF	88,772	21,525	110,297	5,786	116,083
2 x 6s (Rafters), BF	28,451	15,396	43,848	3,373	47,221
2 x 8s (Rafters), BF	53,869	29,151	83,021	6,387	89,408
2 x 10s (Rafters), BF	12,517	6,774	19,291	1,484	20,775
Turn Gables, 2 x 4s, BF	na	na	na	na	na
Dormers, 2 x 4s, BF	na	na	na	na	na
Soffit, 2 x 4s, BF	33,605	13,163	46,768	2,084	48,851
Fascia and Rakes, 2 x 6s, BF	17,506	8,254	25,760	643	26,403
Subtotal: Framing Lumber in Roofs	234,721	94,263	328,984	19,758	348,742
I-joists, LF	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	234,721	94,263	328,984	19,758	348,742
ROOF BEAMS (incl. Beam and Purlin Construction)					
Built-up Dimension Lumber, BF	na	na	na	na	na
Solid Sawn Beams, BF	328	3,202	3,529	544	4,074
Glulam, BF	na	na	na	na	na
LVL, Cubic Feet	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na
Timberstrand™, Cubic Feet	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
Parallam™, Cubic Feet	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na
I-joists, LF	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	328	3,202	3,529	544	4,074
TOTAL WOOD USAGE IN ROOF FRAMING (Excluding boards)					
Lumber Equivalent					
Lumber, BF	235,049	97,465	332,513	20,302	352,815
Glulam, BF	na	na	na	na	na
I-joists, LF	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na
LVL, Cubic Feet	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na
Timberstrand™, Cubic Feet	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
Parallam™, Cubic Feet	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na
Total Engineered Wood, BF Equivalent	na	na	na	na	na
Total Lbr. & Eng. Lumber, BF equivalent	235,049	97,465	332,513	20,302	352,815

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
WOOD USAGE IN BEAMS & HEADERS					
Lumber Equivalent					
Lumber, BF	13,312	21,957	35,269	1,158	36,427
Solid Sawn Beams, BF	1,874	5,675	7,549	675	8,224
Glulam, BF	298	432	730	23	753
I-joists, LF	208	302	510	16	526
I-joists, BF equivalent	416	604	1,021	32	1,053
LVL, Cubic Feet	42	66	108	4	112
LVL, BF equivalent	673	1,062	1,736	56	1,792
Parallam™, Cubic Feet	24	35	60	2	61
Parallam™, BF equivalent	389	565	954	30	983
Timberstrand™, Cubic Feet	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na
Total Engineered Wood, BF Equivalent	1,777	2,663	4,440	140	4,581
Total Lbr. & Eng. Lumber, BF equivalent	16,962	30,296	47,258	1,973	49,231
Plywood - 3/8 inch basis	na	na	na	na	na

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
UNDERLAYMENT MATERIAL					
SF of Floor Area					
Lauan Plywood - 1/4"	na	na	na	na	na
OSB - 1/4"	na	na	na	na	na
OSB - 3/8"	na	na	na	na	na
OSB - 7/16" OR 1/2"	na	na	na	na	na
OSB - 5/8"	na	na	na	na	na
OSB - 3/4"	na	na	na	na	na
Plywood - 1/4"	na	na	na	na	na
Plywood - 3/8"	na	na	na	na	na
Plywood - 1/2"	na	na	na	na	na
Plywood - 5/8"	na	na	na	na	na
Plywood - 3/4"	na	na	na	na	na
Particleboard - 1/4"	na	na	na	na	na
Particleboard - 3/8"	na	na	na	na	na
Particleboard - 1/2"	na	na	na	na	na
Particleboard - 5/8"	na	na	na	na	na
Particleboard - 3/4"	na	na	na	na	na
Hardboard - 1/4"	na	na	na	na	na
Cementitious Board	na	na	na	na	na
Fiberbond	na	na	na	na	na
TOTAL	na	na	na	na	na
UNDERLAYMENT VOLUMES					
Plywood, SF 3/8" Basis	na	na	na	na	na
Lauan Plywood, SF 3/8" Basis	na	na	na	na	na
OSB, SF 3/8" Basis	na	na	na	na	na
Particleboard, SF 3/8" Basis	na	na	na	na	na
Hardboard, SF 3/8" Basis	na	na	na	na	na
Other	na	na	na	na	na
Total Panel Potential, 3/8" basis equiv	na	na	na	na	na

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
WOOD USAGE IN SHEATHING					
FLOOR SHEATHING					
SF of 1st & 2nd Story Floor Area					
None - Slab or Stress Skin Panel	na	na	na	na	na
Plywood - 1/2"	66,802	9,955	76,756	3,327	80,084
Plywood - 5/8"	23,014	17,070	40,084	1,329	41,413
Plywood - 3/4"	53,091	21,552	74,643	4,187	78,830
Plywood - 1 1/8"	na	na	na	na	na
OSB - 7/16" OR 1/2"	na	na	na	na	na
OSB - 5/8"	20,186	5,875	26,061	71	26,132
OSB - 3/4"	4,758	6,443	11,201	627	11,827
OSB - 7/8"	na	na	na	na	na
OSB - 1"	na	na	na	na	na
OSB - 1 1/8"	na	na	na	na	na
Boards - 1"	na	na	na	na	na
Boards - 2"	na	na	na	na	na
Other	10,764	9,262	20,025	0	20,025
TOTAL	178,614	70,156	248,770	9,541	258,311
FLOOR SHEATHING VOLUMES					
Plywood, SF 3/8" basis	233,608	84,826	318,434	15,026	333,460
OSB, SF 3/8" basis	43,158	22,678	65,836	1,372	67,208
Boards / other, 3/8" str'l pn'l basis equiv.	17,748	16,351	34,099	0	34,099
Total Panel Potential, 3/8" basis equiv	294,514	123,855	418,369	16,398	434,767

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
WALL SHEATHING					
SF of Exterior Wall					
None (Stress Skin Panel or Other)	na	na	na	na	na
Plywood - 3/8"	10,277	7,169	17,446	1,447	18,893
Plywood - 1/2"	40,299	8,246	48,545	8,431	56,976
Plywood - 5/8"	20,775	6,334	27,109	4,225	31,334
Plywood - 3/4"	na	na	na	na	na
OSB - 3/8"	3,499	6,112	9,611	137	9,748
OSB - 7/16" OR 1/2"	15,962	6,007	21,969	5,326	27,295
OSB - 5/8"	17,645	4,793	22,438	403	22,841
OSB - 3/4"	na	na	na	na	na
Fiberboard - 1/2"	11,830	6,661	18,492	1,816	20,307
Cementitious Board	na	na	na	na	na
Gypsum	na	na	na	na	na
Foil Faced 3-ply Kraft Paper - 1/8"	na	na	na	na	na
Boards - 1"	na	na	na	na	na
Foam	15,945	2,276	18,220	770	18,990
Other	4,404	6,304	10,707	2,781	13,488
TOTAL	140,637	53,901	194,538	25,334	219,872
WALL SHEATHING VOLUMES					
Plywood, SF 3/8" basis	98,635	28,720	127,355	19,729	147,084
OSB, SF 3/8" basis	54,191	22,109	76,299	7,911	84,210
Foam, SF 3/8" str'l panel basis equivalent	22,468	2,992	25,459	1,065	26,525
Boards / other, 3/8" str'l pn'l basis equiv.	22,875	17,046	39,921	6,362	46,283
Total Panel Potential, 3/8" basis equiv	198,168	70,867	269,035	35,066	304,101

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
ROOF SHEATHING					
SF of Roof Area					
None	na	na	na	na	na
Plywood - 3/8"	21,975	2,424	24,399	605	25,003
Plywood - 1/2"	43,355	5,293	48,647	5,375	54,022
Plywood - 5/8"	34,105	4,823	38,928	270	39,198
Plywood - 3/4"	na	na	na	na	na
OSB - 7/16" or 1/2"	6,076	9,150	15,226	1,332	16,558
OSB - 5/8"	4,760	5,167	9,928	24	9,952
OSB - 3/4"	na	na	na	na	na
Boards - 1" - no spacing	na	na	na	na	na
Boards - 1" - spaced	na	na	na	na	na
Boards - 2"	na	na	na	na	na
Other	355	6,201	6,556	181	6,737
TOTAL	110,626	33,058	143,684	7,786	
ROOF SHEATHING VOLUMES					
Plywood, SF 3/8" Basis	136,623	17,518	154,141	8,221	162,362
OSB, SF 3/8" Basis	16,036	20,812	36,848	1,816	38,664
Boards / Other, 3/8" str'l pn'l basis equiv.	491	8,851	9,342	239	9,581
Total Panel Potential, 3/8" basis equiv	153,150	47,182	200,332	10,276	210,607

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
WOOD USAGE IN MILLWORK					
SIDING MATERIAL					
SF of Exterior Wall					
Plywood panels	570	186	756	2,755	3,511
Hardboard	16,210	31	16,241	0	16,241
Lumber	14,080	14,378	28,459	7,061	35,519
Cedar Shingles	6,872	84	6,956	160	7,117
OSB	101	33	134	0	134
Other wood	28	9	38	0	38
Brick	28,039	0	28,039	2,908	30,947
Natural Stone	8,591	4,830	13,421	0	13,421
Manufactured Stone	na	na	na	na	na
Concrete Stucco	10,180	8,089	18,269	19,354	37,622
Acrylic Stucco	20,970	12,947	33,918	232	34,149
Concrete block	na	na	na	na	na
Fiber Cement	10,789	0	10,789	9,741	20,529
Vinyl	276,927	140,046	416,973	62,228	479,201
Aluminum	30,313	3,644	33,956	9,671	43,628
Steel	201	0	201	0	201
Other	21,848	5,575	27,422	2,862	30,284
TOTAL	445,720	189,853	635,573	116,971	752,544
MILLWORK VOLUMES - Volumes as indicated					
SIDING VOLUMES					
Lumber, BF	20,275	20,705	40,980	10,167	51,148
Cedar Shakes and Shingles, BF	8,590	105	8,695	201	8,896
Plywood, SF 3/8" Basis	1,185	387	1,572	5,730	7,302
OSB, SF 3/8" Basis	182	59	241	0	241
Hardboard, SF 3/8" Basis	23,829	46	23,875	0	23,875
SOFFITS AND FASCIA - EAVES & RAKES					
Plywood, SF 3/8" Basis	426	554	980	12	992
MDF, SF 3/8" Basis	879	57	936	0	936
Lumber, BF	2,396	1,928	4,324	937	5,262
OSB, SF 3/8" Basis	32	18	51	0	51
ROOFING					
Cedar Shakes and Shingles, BF	54,120	18,869	72,988	3,338	76,327
EXTERIOR ORNAMENTAL TRIM					
Lumber, BF	3,005	5,156	8,161	2,348	10,509
Plywood, SF 3/8" Basis	75	108	183	1	184
MDF, 3/8" Basis	1,139	415	1,554	125	1,679
SHUTTERS					
Lumber, BF	886	214	1,100	56	1,156

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
EXTERIOR AND INTERIOR DOORS					
Lumber, BF	41,505	16,406	57,911	7,265	65,176
Plywood, SF 3/8" Basis	383	332	715	182	897
Hardboard, SF 3/8" Basis	5,989	3,529	9,518	872	10,391
Hardwood Plywood (Incl. Luan), SF 3/8" Ba	0	0	0	0	0
Particleboard, SF 3/8" Basis	7,243	2,123	9,366	1,193	10,559
WINDOWS					
Lumber, BF	4,888	2,177	7,065	1,412	8,477
GARAGE DOORS & FRAMING					
Lumber, BF	6,056	1,653	7,710	469	8,179
Hardboard, SF 3/8" Basis	156	38	194	92	286
MOULDINGS					
Linear Feet Wood Moulding					
Base	56,422	22,769	79,191	6,099	85,290
Case	57,181	21,342	78,523	10,063	88,586
Other	7,921	2,969	10,890	754	11,644
TOTAL	121,524	47,079	168,603	16,916	185,520
MOULDINGS VOLUMES (based on 97 data)					
Volume measures as indicated					
Softwood Lumber, BF	9,552	3,455	13,008	2,115	15,123
Hardwood Lumber, BF	3,551	1,484	5,035	710	5,745
MDF, SF 3/8" Basis	8,735	3,293	12,028	1,884	13,912
CLOSET SHELVING (based on 97 data)					
Lumber, BF	2,265	1,042	3,307	1,634	4,941
Plywood, SF 3/8" Basis	5,662	2,605	8,267	4,086	12,353
Particleboard / MDF, SF 3/8" Basis	32,841	15,111	47,951	23,699	71,650
KITCHEN AND VANITY CABINETS					
Lumber - Softwood, BF	2,831	1,428	4,259	908	5,167
Lumber - Hardwood, BF	19,221	9,289	28,510	3,002	31,512
Plywood - Hardwood (Incl. Luan), SF 3/8" E	12,271	6,893	19,164	2,925	22,089
Hardboard, SF 3/8" Basis	221	190	411	112	523
Particleboard / MDF, SF 3/8" Basis	93,387	46,099	139,486	26,745	166,231
KITCHEN CABINETS -- TYPE OF DOOR					
Number of Cabinets					
Wood finish, raised panel in frame	1,369	607	1,976	264	2,240
Wood finish, flat panel in frame	415	380	795	123	919
Glass panel in wood frame	99	80	178	8	186
Laminate with raised panel look	405	113	518	86	604
Wood finish, flat panel with no frame	128	101	229	65	294
Laminate finish, flat panel with no frame	206	66	272	162	434
Other	77	56	133	5	138
TOTAL	2,700	1,403	4,103	712	4,815

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
VANITY CABINETS -- TYPE OF DOOR					
Number of Cabinets					
Wood finish, raised panel in frame	178	39	218	19	237
Wood finish, flat panel in frame	64	24	88	6	94
Glass panel in wood frame	39	16	55	7	62
Laminate with raised panel look	75	25	101	21	122
Wood finish, flat panel with no frame	4	13	17	2	19
Laminate finish, flat panel with no frame	12	19	31	5	37
Other	9	15	24	5	29
TOTAL	382	151	533	67	600
ALL CABINETS -- TYPE OF DOOR					
Number of Cabinets					
Wood finish, raised panel in frame	1,548	646	2,194	283	2,477
Wood finish, flat panel in frame	479	404	883	130	1,013
Glass panel in wood frame	138	96	233	15	249
Laminate with raised panel look	481	138	619	107	726
Wood finish, flat panel with no frame	133	114	247	67	314
Laminate finish, flat panel with no frame	218	85	303	167	470
Other	86	71	157	10	167
TOTAL	3,082	1,554	4,636	779	5,416
KITCHEN CABINETS -- TYPE OF CABINET FRAME					
Number of Cabinets					
Frameless (European style)	935	385	1,319	213	1,533
Face-framed (traditional)	1,696	954	2,650	457	3,107
Other	69	65	134	42	175
TOTAL	2,700	1,403	4,103	712	4,815
VANITY CABINETS -- TYPE OF CABINET FRAME					
Number of Cabinets					
Frameless (European style)	132	41	174	20	194
Face-framed (traditional)	240	103	343	43	386
Other	10	7	17	4	21
TOTAL	382	151	533	67	600
ALL CABINETS -- TYPE OF CABINET FRAME					
Number of Cabinets					
Frameless (European style)	1,067	426	1,493	234	1,727
Face-framed (traditional)	1,936	1,056	2,993	500	3,493
Other	79	72	151	46	196
TOTAL	3,082	1,554	4,636	779	5,416
TYPE OF CABINET BOX					
Number of Cabinets					
Solid wood	347	175	521	33	555
Wood veneer on particleboard/MDF	1,667	840	2,507	405	2,912
Plastic/Paper overlay/laminate on particleboard	714	360	1,074	263	1,337
Plywood	346	175	521	77	598
Other	9	4	13	0	13
TOTAL	3,082	1,554	4,636	779	5,416
COUNTERTOPS					
Plywood, SF 3/8" Basis	6,327	3,300	9,627	1,343	10,971
Particleboard / MDF, SF 3/8" Basis	8,260	4,928	13,188	1,990	15,178
Lumber - Hardwood, BF	27	92	119	7	125

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
FINISHED WOOD FLOORING					
Lumber - Hardwood, BF	663,767	189,489	853,257	166,645	1,019,901
Lumber - Softwood, BF	na	na	na	na	na
FINISH FLOORING					
SF of Flooring					
Wall to wall carpet	245,255	182,834	428,089	171,567	599,656
Hardwood (solid)	260,690	70,777	331,467	42,854	374,321
Hardwood (engineered)	115,027	36,481	151,509	51,473	202,982
Vinyl sheet	58,263	43,173	101,435	25,653	127,088
Vinyl tile	76,215	31,087	107,302	44,700	152,002
Laminate	390,204	198,370	588,574	101,059	689,632
Ceramic tile	195,914	63,249	259,163	46,462	305,625
Slate	12,360	4,409	16,770	5,173	21,942
Marble	10,276	4,864	15,140	2,145	17,285
Other	57,197	16,417	73,614	13,661	87,275
TOTAL	1,421,402	651,660	2,073,062	504,746	2,577,808
INTERIOR WALL AND CEILING FINISHES					
Lumber, BF	18,344	11,328	29,672	3,607	33,279
Hardboard, SF 3/8" Basis	24,022	17,563	41,585	6,762	48,347
Plywood-Hardwood, SF 3/8" Basis	56,436	17,435	73,871	11,014	84,885
STAIRS AND RAILINGS					
Lumber - Softwood, BF	na	na	na	na	na
Lumber - Hardwood, BF	na	na	na	na	na
Plywood, SF 3/8" Basis	na	na	na	na	na
OSB, SF 3/8" Basis	na	na	na	na	na
Particleboard / MDF, SF 3/8" Basis	na	na	na	na	na
MANTELS					
Lumber - Softwood, BF	na	na	na	na	na
Lumber - Hardwood, BF	na	na	na	na	na

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
<i>All Data in Thousands</i>					
WOOD USAGE IN OUTDOOR STRUCTURES					
DECKS					
Lumber - Regular, BF					
Boards	42,065	15,970	58,034	5,015	63,049
Lumber - Treated, BF					
2x4s	176,142	84,583	260,725	28,974	289,699
2x6s	92,542	44,438	136,980	15,222	152,202
2x8s	113,107	54,314	167,420	18,605	186,025
2x10s	154,236	74,064	228,300	25,370	253,671
2x12s	51,412	24,688	76,100	8,457	84,557
Boards	110,040	41,869	151,909	16,661	168,570
Support Posts	20,339	8,430	28,769	3,548	32,316
Subtotal - Lumber, BF	42,065	15,970	58,034	5,015	63,049
Subtotal - Treated Lumber, BF	717,819	332,385	1,050,204	116,836	1,167,040
Total, BF	759,883	348,355	1,108,238	121,851	1,230,090
Deck Surfaces					
Lumber - Regular, BF	42,065	15,970	58,034	5,015	63,049
Lumber - Treated, BF	110,040	41,869	151,909	16,661	168,570
PVC / Vinyl / Fiberglass, BF	289	16,123	16,412	4,460	20,872
Wood / Plastic composite, BF	16,277	7,034	23,311	1,608	24,920
Total Deck Surface Material, BF	168,671	80,995	249,666	27,745	277,411
PORCHES					
Lumber - Regular, BF					
2x4s (Porch Roofs & Breezeways)	26,941	11,527	38,468	5,316	43,784
2x8s (Porch Floors & Breezeways)	37,028	17,202	54,230	7,441	61,670
Posts	7,501	2,999	10,500	1,726	12,227
Boards	11,018	5,594	16,613	2,834	19,447
Lumber - Treated, BF					
Boards	8,223	3,755	11,977	1,188	13,165
Subtotal - Lumber, BF	82,489	37,322	119,811	17,317	137,128
Subtotal - Treated Lumber, BF	8,223	3,755	11,977	1,188	13,165
Total, BF	90,711	41,077	131,788	18,505	150,293
Porch Surfaces					
Lumber - Regular, BF	11,018	5,594	16,613	2,834	19,447
Lumber - Treated, BF	8,223	3,755	11,977	1,188	13,165
Plastic and Composites, BF	10,103	2,942	13,045	1,440	14,485
Concrete / Brick / Stone / Tiles, BF	6,493	2,629	9,122	1,079	10,201
Total Porch Surface Material, BF	35,837	14,921	50,757	6,541	57,298
FENCES AND LANDSCAPE WALLS					
Lumber - Treated, BF	173,723	109,432	283,155	31,286	314,441
FENCING TYPE / MATERIAL					
Wood -- vert boards on alt sides, BF	79,447	25,373	104,819	10,396	115,215
Wood -- vert boards on one side, BF	30,577	45,433	76,010	4,712	80,722
Wood w/ horiz rails / boards, BF	8,755	10,845	19,600	1,304	20,904
Metal, BF equivalent	37,708	17,891	55,599	2,675	58,274
WPC, Vinyl, PVC, or other plast, BF equivalent	18,234	5,958	24,192	1,005	25,197
Stucco on wood frame, BF equivalent	0	0	0	0	0
Stone (natural or synthetic), BF equivalent	3,532	3,295	6,826	0	6,826
Brick, BF equivalent	219	539	757	0	758
Concrete (all types), BF equivalent	245	0	245	3	248
LANDSCAPE-RETAINING WALL TYPE / MATERIAL					
Wood timbers, BF	54,944	27,782	82,725	14,875	97,600
Stucco on wood frame, BF	0	0	0	0	0
Stone (natural or synthetic), BF equivalent	55,368	9,217	64,585	18,631	83,216
Brick, BF equivalent	8,269	5,377	13,646	1,161	14,807
Concrete (all types), BF equivalent	74,110	24,545	98,655	5,005	103,660

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
FOUNDATION					
BASEMENT WALL MATERIAL					
Linear Feet of Foundation Wall					
Poured concrete	na	na	na	na	na
Concrete block	na	na	na	na	na
Precast concrete	na	na	na	na	na
Insulated concrete forming systems	na	na	na	na	na
Pressure treated wood	na	na	na	na	na
Other	na	na	na	na	na
TOTAL	na	na	na	na	na
CRAWL SPACE WALL MATERIAL					
Linear Feet of Foundation Wall					
Poured concrete	na	na	na	na	na
Concrete block	na	na	na	na	na
Precast concrete	na	na	na	na	na
Insulated concrete forming systems	na	na	na	na	na
Pressure treated wood	na	na	na	na	na
Other	na	na	na	na	na
TOTAL	na	na	na	na	na

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
STRUCTURAL SYSTEMS: FLOORS					
STRUCTURAL FLOOR MATERIAL - ALL FLOORS					
Square Feet of Floor					
Cast-in-place concrete	18.02%	29.11%	21.15%	13.47%	20.31%
Precast concrete	na	na	na	na	na
Steel (all types)	8.47%	4.57%	7.37%	0.29%	6.60%
Lumber joists	46.44%	41.57%	45.06%	48.30%	45.42%
Wood I-joists	22.07%	11.80%	19.17%	19.77%	19.24%
Open web wood truss	4.10%	6.22%	4.70%	18.18%	6.17%
Structural insulated panels	na	na	na	na	na
Other wood	0.90%	6.73%	2.55%	0.00%	2.27%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
STRUCTURAL FLOOR MATERIAL - GROUND FLOOR					
Square Feet of Floor					
Cast-in-place concrete	na	na	na	na	na
Precast concrete	na	na	na	na	na
Steel (all types)	na	na	na	na	na
Lumber joists	na	na	na	na	na
Wood I-joists	na	na	na	na	na
Open web wood truss	na	na	na	na	na
Structural insulated panels	na	na	na	na	na
Other wood	na	na	na	na	na
TOTAL	na	na	na	na	na
STRUCTURAL FLOOR MATERIAL - UPPER FLOORS					
Square Feet of Floor					
Cast-in-place concrete	na	na	na	na	na
Precast concrete	na	na	na	na	na
Steel (all types)	na	na	na	na	na
Lumber joists	na	na	na	na	na
Wood I-joists	na	na	na	na	na
Open web wood truss	na	na	na	na	na
Structural insulated panels	na	na	na	na	na
Other wood	na	na	na	na	na
TOTAL	na	na	na	na	na
SPECIES OF LUMBER JOISTS					
Square Feet of 1st & 2nd Story Area					
Southern yellow pine (SYP)	na	na	na	na	na
Douglas fir or hem fir	na	na	na	na	na
Spruce / Pine / Fir (SPF) or eastern spruce	na	na	na	na	na
Other	na	na	na	na	na
TOTAL	na	na	na	na	na

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
STRUCTURAL SYSTEMS: WALLS					
EXTERIOR WALL MATERIAL - ALL FLOORS					
Linear Feet of Exterior Wall					
Wood	94.07%	92.96%	93.75%	93.53%	93.73%
Masonry	1.32%	6.58%	2.83%	6.41%	3.09%
Steel	4.62%	0.46%	3.42%	0.06%	3.18%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
SPECIES OF LIGHT FRAME EXTERIOR WALL					
Linear Feet Light Frame Exterior Wall					
Lamin. strand lumber (Timberstrand)	na	na	na	na	na
Finger-jointed (any species)	na	na	na	na	na
Southern yellow pine (SYP)	na	na	na	na	na
Douglas fir, hem-fir	na	na	na	na	na
Spruce / Pine / Fir (SPF) or eastern spruce	na	na	na	na	na
Other	na	na	na	na	na
Don't know	na	na	na	na	na
TOTAL	na	na	na	na	na
STRUCTURAL SYSTEMS: ROOF FRAMING					
ROOF FRAME MATERIAL					
Square Feet of Roof Footprint					
Lumber	94.14%	92.70%	93.78%	99.84%	94.12%
I-joists	0.00%	0.00%	0.00%	0.00%	0.00%
Steel	5.43%	6.39%	5.67%	0.06%	5.35%
Structural insulated panels	0.43%	0.91%	0.55%	0.10%	0.53%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
SPECIES OF ROOF TRUSSES					
Square Feet of Roof Footprint					
Southern yellow pine	na	na	na	na	na
Douglas fir or hem-fir	na	na	na	na	na
Spruce / Pine / Fir	na	na	na	na	na
Other	na	na	na	na	na
Don't know	na	na	na	na	na
TOTAL	na	na	na	na	na
SPECIES OF ROOF RAFTER					
Square Feet of Roof Footprint					
Southern yellow pine	na	na	na	na	na
Douglas fir or hem-fir	na	na	na	na	na
Spruce / Pine / Fir	na	na	na	na	na
Other	na	na	na	na	na
Don't know	na	na	na	na	na
TOTAL	na	na	na	na	na

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
BEAMS					
FLOOR & ROOF BEAMS -- ALL FLOORS					
Linear Feet of Beam					
Built-up dimension lumber	na	na	na	na	na
Solid wood beams	na	na	na	na	na
Glulam	na	na	na	na	na
LVL	na	na	na	na	na
Timberstrand	na	na	na	na	na
Parallam	na	na	na	na	na
Steel	na	na	na	na	na
Open web joist	na	na	na	na	na
Girder truss	na	na	na	na	na
I-joist	na	na	na	na	na
Other	na	na	na	na	na
TOTAL	na	na	na	na	na
RIM BOARD FOR WOODEN I-JOISTS					
Linear Feet of Exterior Wall					
Timberstrand	na	na	na	na	na
Plywood	na	na	na	na	na
OSB	na	na	na	na	na
Dimension lumber	na	na	na	na	na
LVL	na	na	na	na	na
Wooden I-joist with blocking	na	na	na	na	na
Re-sawn glulam	na	na	na	na	na
TOTAL	na	na	na	na	na
HEADERS					
WINDOW, DOOR AND GARAGE DOOR HEADERS					
Linear Feet of Headers					
Built-up dimension lumber	74.65%	74.65%	67.34%	74.65%	67.46%
Solid wood beams	8.67%	8.67%	16.90%	8.67%	16.77%
Glulam	1.14%	1.14%	3.98%	1.14%	3.94%
Wood I-joists -- single	3.89%	3.89%	2.06%	3.89%	2.09%
Wood I-joists -- doubled	0.00%	0.00%	0.00%	0.00%	0.00%
LVL -- single	0.87%	0.87%	0.94%	0.87%	0.94%
LVL -- doubled	2.96%	2.96%	2.23%	2.96%	2.24%
Parallam	1.89%	1.89%	1.00%	1.89%	1.02%
Concrete	0.00%	0.00%	0.73%	0.00%	0.72%
Steel	5.93%	5.93%	4.81%	5.93%	4.83%
Timberstrand	0.00%	0.00%	0.00%	0.00%	0.00%
Glued & nailed box	0.00%	0.00%	0.00%	0.00%	0.00%
Wood truss	0.00%	0.00%	0.00%	0.00%	0.00%
Flitch plate beams	0.00%	0.00%	0.00%	0.00%	0.00%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
SHEATHING: FLOOR					
FLOOR SHEATHING - ALL FLOORS - WASTE INCLUDED					
Square Feet of All Floors					
None - slab or SIPs	na	na	na	na	na
Plywood	80.01%	69.24%	76.97%	92.69%	77.55%
OSB	13.97%	17.56%	14.98%	7.31%	14.70%
1x boards	na	na	na	na	na
2x boards	na	na	na	na	na
Other	6.03%	13.20%	8.05%	0.00%	7.75%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
SHEATHING: WALL					
WALL SHEATHING - WASTE INCLUDED					
Square Feet of Exterior Wall					
None (SIPs or other)	0.00%	0.00%	0.00%	0.00%	0.00%
Plywood	50.73%	40.35%	47.86%	55.66%	48.76%
OSB	26.38%	31.37%	27.77%	23.16%	27.24%
XPS	11.34%	4.22%	9.37%	3.04%	8.64%
EPS	na	na	na	na	na
ISO	na	na	na	na	na
1/2 inch fiberboard	8.41%	12.36%	9.51%	7.17%	9.24%
Cementitious board	na	na	na	na	na
Fiber cement	na	na	na	na	na
Gypsum	na	na	na	na	na
1/8 inch foil faced (Thermoply, EnergyBrace)	na	na	na	na	na
1 inch boards	na	na	na	na	na
Other	3.13%	11.69%	5.50%	10.98%	6.13%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
SHEATHING: ROOF					
ROOF SHEATHING - WASTE INCLUDED					
Square Feet of Sheathing					
None (SIPs or other)	0.00%	0.00%	0.00%	0.00%	0.00%
Plywood	89.88%	37.93%	77.93%	80.26%	78.05%
OSB	9.80%	43.31%	17.51%	17.41%	17.50%
1 inch boards (3/4 inch actual), no spacing	na	na	na	na	na
1 inch boards (3/4 inch actual), spaced	na	na	na	na	na
2 inch boards (1 1/2 inch actual -- including	na	na	na	na	na
Other	0.32%	18.76%	4.56%	2.32%	4.45%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
UNDERLAYMENT					
UNDERLAYMENT MATERIAL					
Square Feet of Floor Area					
Lauan plywood	na	na	na	na	na
OSB	na	na	na	na	na
Plywood	na	na	na	na	na
Particleboard	na	na	na	na	na
1/4 inch hardboard	na	na	na	na	na
Cementitious board	na	na	na	na	na
Gypsum Panel	na	na	na	na	na
Poured lightweight concrete	na	na	na	na	na
Other	na	na	na	na	na
TOTAL	na	na	na	na	na

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
STAIRWAYS					
STAIRS AND RAILINGS					
Lumber - Softwood	na	na	na	na	na
Lumber - Hardwood	na	na	na	na	na
Plywood	na	na	na	na	na
OSB, SF	na	na	na	na	na
Particleboard / MDF	na	na	na	na	na
LVL	na	na	na	na	na
Metal or other	na	na	na	na	na
TOTAL	na	na	na	na	na
FIREPLACES AND MANTELS					
MANTELS					
Number of Mantels					
Wood - with side pilasters	na	na	na	na	na
Wood - a board on brackets	na	na	na	na	na
Brick with wood plank	na	na	na	na	na
Brick - no wood	na	na	na	na	na
Other	na	na	na	na	na
None	na	na	na	na	na
TOTAL	na	na	na	na	na
WINDOWS					
WINDOW FRAME MATERIAL BY UNIT					
Window Units					
Wood (no cladding)	1.98%	1.59%	1.89%	8.03%	2.58%
Wood, aluminum clad	4.55%	3.98%	4.41%	13.02%	5.38%
Wood, vinyl clad	7.74%	13.95%	9.27%	3.34%	8.60%
Aluminum	16.83%	6.43%	14.28%	6.74%	13.43%
Vinyl	56.13%	53.79%	55.55%	30.52%	52.72%
Composite	6.63%	11.97%	7.94%	23.65%	9.72%
Other	6.13%	8.29%	6.66%	14.69%	7.57%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
EXTERIOR DOORS					
EXTERIOR DOOR MATERIAL					
Number of Doors					
Solid wood -- raised panel	9.98%	10.63%	10.17%	21.04%	11.68%
Wood -- flush	5.47%	11.79%	7.28%	11.41%	7.86%
Steel -- raised panel	65.35%	61.20%	64.16%	44.39%	61.40%
Steel -- flush	7.76%	11.12%	8.72%	10.47%	8.97%
Fiberglass	11.43%	5.27%	9.67%	12.69%	10.09%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
PATIO DOORS					
PATIO DOOR MATERIAL					
Number of Doors					
Wood	12.27%	15.24%	13.00%	5.67%	12.18%
Aluminum clad wood	7.77%	4.55%	6.99%	5.77%	6.85%
Vinyl clad wood	11.84%	15.25%	12.67%	0.30%	11.30%
Steel	8.84%	11.66%	9.53%	1.53%	8.64%
Aluminum	22.08%	15.72%	20.53%	53.36%	24.18%
Vinyl	29.96%	32.31%	30.53%	20.14%	29.37%
Composite/Fiberglass	5.97%	3.66%	5.40%	13.22%	6.27%
Other	1.27%	1.61%	1.35%	0.00%	1.20%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
INTERIOR DOORS					
INTERIOR DOOR MATERIAL					
Number of Doors					
Solid wood panel	19.60%	9.48%	16.83%	23.49%	17.39%
Solid wood with louvers	0.38%	1.48%	0.68%	0.00%	0.62%
Solid wood with glass unit(s)	6.67%	4.35%	6.04%	6.70%	6.09%
Hardboard panel	33.59%	49.34%	37.90%	43.96%	38.41%
Hardboard flush, hollow core	8.55%	16.54%	10.74%	4.87%	10.25%
Particleboard / MDF, solid core	10.21%	3.87%	8.47%	6.78%	8.33%
Plywood flush, hollow core	0.00%	0.00%	0.00%	0.00%	0.00%
Mirror on steel frame	9.00%	3.65%	7.54%	2.75%	7.14%
Steel (no mirror)	4.14%	6.05%	4.66%	1.05%	4.36%
Hardboard panel on steel frame	0.00%	0.00%	0.00%	0.00%	0.00%
Other	7.27%	2.68%	6.02%	9.53%	6.31%
TOTAL	99.41%	97.43%	98.87%	99.12%	98.89%
GARAGE DOORS					
GARAGE DOOR MATERIAL					
Number of Garage Doors					
Steel	52.10%	73.25%	57.46%	54.37%	57.28%
Wood	8.88%	5.41%	8.00%	26.40%	9.08%
Fiberglass or Plastic	32.00%	17.71%	28.38%	19.24%	27.84%
Other	7.01%	3.62%	6.15%	0.00%	5.79%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
INTERIOR FINISHES					
INTERIOR WALL FINISH					
Square Feet of Wall					
Plywood paneling -- 1/4	10.12%	7.89%	9.51%	13.30%	9.85%
Hardboard paneling -- 1/4	3.59%	5.30%	4.05%	5.08%	4.15%
Gypsum drywall -- 3/8	67.53%	61.58%	65.90%	58.07%	65.21%
Gypsum drywall -- 1/2	na	na	na	na	na
Cement board	1.50%	1.73%	1.56%	1.50%	1.56%
Gypsum drywall -- 5/8	13.86%	18.54%	15.14%	19.20%	15.50%
Gypsum drywall -- 3/4	na	na	na	na	na
Lumber / Boards or shingles	1.25%	1.47%	1.31%	1.92%	1.37%
Other	2.15%	3.49%	2.51%	0.91%	2.37%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
INTERIOR CEILING FINISH					
Square Feet of Ceiling					
Plywood paneling -- 1/4	5.94%	4.94%	5.61%	8.10%	5.95%
Hardboard paneling -- 1/4	5.99%	13.70%	8.51%	12.28%	9.02%
Gypsum drywall -- 3/8	51.49%	35.39%	46.23%	25.49%	43.39%
Gypsum drywall -- 1/2	na	na	na	na	na
Cement board	1.07%	1.58%	1.24%	2.21%	1.37%
Gypsum drywall -- 5/8	13.73%	17.30%	14.90%	24.45%	16.20%
Gypsum drywall -- 3/4	na	na	na	na	na
Lumber / Boards or shingles	3.32%	5.87%	4.15%	2.63%	3.95%
Acoustical ceiling tiles	9.32%	11.85%	10.14%	12.50%	10.47%
Other	9.14%	9.38%	9.22%	12.33%	9.65%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
FLOORING					
ALL FINISH FLOORING (Excludes Basements)					
Square Feet of Finished Floor Area					
Carpet	17.25%	28.06%	20.65%	33.99%	23.26%
Hardwood (solid)	18.34%	10.86%	15.99%	8.49%	14.52%
Ceramic tile	13.78%	9.71%	12.50%	9.21%	11.86%
Vinyl sheet	4.10%	6.63%	4.89%	5.08%	4.93%
Vinyl tile	5.36%	4.77%	5.18%	8.86%	5.90%
Hardwood (engineered)	8.09%	5.60%	7.31%	10.20%	7.87%
Laminate	27.45%	30.44%	28.39%	20.02%	26.75%
Slate	0.87%	0.68%	0.81%	1.02%	0.85%
Marble	0.72%	0.75%	0.73%	0.43%	0.67%
Other	4.02%	2.52%	3.55%	2.71%	3.39%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
CABINETS					
CABINET DOOR TYPE					
Number of Cabinets					
Wood finish, raised panel in frame	50.21%	41.57%	47.32%	36.33%	45.74%
Wood finish, flat panel in frame	15.55%	25.99%	19.05%	16.63%	18.70%
Glass panel in wood frame	4.47%	6.15%	5.03%	1.95%	4.59%
Laminate with raised panel look	15.59%	8.91%	13.35%	13.74%	13.41%
Wood finish, flat panel with no frame	4.31%	7.34%	5.32%	8.59%	5.79%
Laminate finish, flat panel with no frame	7.09%	5.46%	6.54%	21.44%	8.69%
Other	2.78%	4.59%	3.38%	1.33%	3.09%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
CABINET FRAME TYPE					
Number of Cabinets					
Frameless (European style)	34.62%	27.43%	32.21%	29.97%	31.88%
Face-framed (traditional)	62.82%	67.96%	64.55%	64.18%	64.49%
Other	2.56%	4.61%	3.25%	5.85%	3.62%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
CABINET BOX TYPE					
Number of Cabinets					
Wood veneer on particleboard / MDF	11.24%	11.24%	13.66%	4.28%	12.31%
Solid wood	54.07%	54.07%	50.05%	52.03%	50.34%
Plastic / Paper overlay / laminate on particle	23.16%	23.16%	18.25%	33.76%	20.48%
Plywood	11.24%	11.24%	18.01%	9.87%	16.84%
Other	0.28%	0.28%	0.03%	0.05%	0.03%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
COUNTERTOPS					
KITCHEN COUNTERTOP MATERIAL					
Linear Feet					
Solid Surface	7.42%	10.31%	8.53%	17.67%	9.94%
Laminate	56.94%	57.79%	57.27%	50.33%	56.20%
Ceramic Tile	9.34%	5.19%	7.75%	5.41%	7.38%
Cultured Marble	1.44%	1.88%	1.61%	2.43%	1.74%
Wood (butcher block)	2.30%	1.61%	2.03%	2.06%	2.04%
Marble, stone, and other	7.34%	8.69%	7.86%	8.59%	7.97%
Granite	15.21%	14.53%	14.95%	13.51%	14.73%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
VANITY COUNTERTOP MATERIAL					
Linear Feet					
Solid Surface	15.02%	7.87%	12.51%	13.81%	12.62%
Laminate	48.33%	34.97%	43.63%	39.00%	43.21%
Ceramic Tile	5.87%	8.61%	6.84%	4.65%	6.64%
Cultured Marble	5.17%	13.41%	8.07%	12.10%	8.43%
Wood (butcher block)	0.31%	1.90%	0.87%	0.49%	0.83%
Marble, stone, and other	25.30%	33.23%	28.09%	29.96%	28.26%
TOTAL	100.00%	100.00%	100.00%	100.01%	100.00%

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
ROOFING					
ROOFING MATERIAL (WITH WASTE FACTORS)					
Square Feet of Roofing					
Asphalt -- standard 3-tab	76.04%	75.26%	75.85%	83.60%	76.79%
Asphalt -- architectural grade	11.25%	11.53%	11.32%	2.24%	10.22%
Cedar shingles	na	na	na	na	na
Cedar shakes	3.41%	3.62%	3.46%	1.15%	3.18%
Aluminum	0.00%	0.00%	0.00%	0.00%	0.00%
Clay roof tiles	0.35%	0.00%	0.27%	0.00%	0.23%
Concrete roof tiles	0.00%	0.00%	0.00%	0.00%	0.00%
Fiber cement	0.19%	0.00%	0.14%	0.00%	0.12%
Slate	0.13%	0.00%	0.10%	2.72%	0.42%
Copper	na	na	na	na	na
Steel	7.57%	7.63%	7.59%	3.99%	7.15%
Built-up asphalt	0.00%	0.00%	0.00%	0.00%	0.00%
Single-ply (EPDM, vinyl, modified bitumen)	1.06%	1.96%	1.28%	6.29%	1.89%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
SIDING					
SIDING MATERIAL (WITH WASTE FACTORS)					
Square Feet of Siding					
Plywood Panels	0.13%	0.10%	0.12%	2.35%	0.47%
Hardboard	3.64%	0.02%	2.56%	0.00%	2.16%
Lumber	3.16%	7.57%	4.48%	6.04%	4.72%
Cedar Shingles	1.54%	0.04%	1.09%	0.14%	0.95%
OSB	0.02%	0.02%	0.02%	0.00%	0.02%
Other wood	0.01%	0.00%	0.01%	0.00%	0.00%
Brick	6.29%	0.00%	4.41%	2.49%	4.11%
Natural Stone	1.93%	2.54%	2.11%	0.00%	1.78%
Manufactured Stone	na	na	na	na	na
Cement Stucco	2.28%	4.26%	2.87%	16.55%	5.00%
Synthetic Stucco	4.70%	6.82%	5.34%	0.20%	4.54%
Concrete block	na	na	na	na	na
Fiber Cement	2.42%	0.00%	1.70%	8.33%	2.73%
Vinyl	62.13%	73.77%	65.61%	53.20%	63.68%
Aluminum	6.80%	1.92%	5.34%	8.27%	5.80%
Steel	0.05%	0.00%	0.03%	0.00%	0.03%
Other Metal & Plastic	4.90%	2.94%	4.31%	2.45%	4.02%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
SOFFIT & FASCIA MATERIAL					
SOFFIT MATERIAL: EAVES					
Square Feet of Soffit					
Plywood / LVL	1.11%	3.88%	1.89%	0.00%	1.81%
Hardboard or MDF	0.52%	0.24%	0.44%	0.00%	0.42%
Solid wood / Lumber	3.46%	4.93%	3.87%	28.80%	4.94%
OSB	0.06%	0.10%	0.07%	0.00%	0.07%
Vinyl	36.25%	27.27%	33.72%	0.00%	32.28%
Aluminum	49.52%	59.87%	52.43%	41.64%	51.97%
Steel	3.00%	0.78%	2.38%	0.00%	2.28%
Other material	6.07%	2.93%	5.19%	29.56%	6.23%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
FASCIA MATERIAL: EAVES					
Linear Feet of Fascia					
Plywood / LVL	0.22%	0.25%	0.23%	2.14%	0.28%
Hardboard / MDF	2.20%	0.17%	1.55%	0.00%	1.51%
Solid wood / Lumber	6.74%	15.17%	9.44%	49.04%	10.39%
OSB	0.06%	0.06%	0.06%	0.00%	0.06%
Vinyl (wrap)	27.66%	24.16%	26.54%	12.60%	26.20%
Aluminum (wrap)	52.60%	58.17%	54.38%	36.22%	53.95%
Steel	5.94%	0.79%	4.29%	0.00%	4.19%
Other material	4.58%	1.23%	3.50%	0.00%	3.42%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
SHUTTERS & ORNAMENTAL TRIM					
SHUTTER MATERIAL					
Pairs of Shutters					
Wood	31.89%	46.54%	33.97%	28.42%	33.65%
Plastic	66.10%	11.62%	58.35%	71.58%	59.11%
Other	2.01%	41.84%	7.68%	0.00%	7.24%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
INTERIOR MOULDING MATERIAL (98 DATA)					
Linear Feet of Moulding					
Oak	20.32%	22.53%	12.39%	18.86%	13.26%
Other hardwood	na	na	na	na	na
Finger-jointed pine	54.68%	52.47%	62.61%	56.14%	61.74%
Solid pine	na	na	na	na	na
Veneer Clad Wood	na	na	na	na	na
Vinyl clad wood	na	na	na	na	na
Medium density fiberboard	25.00%	25.00%	25.00%	25.00%	25.00%
Foam Plastic	na	na	na	na	na
Ceramic Tile (baseboard)	na	na	na	na	na
Other	na	na	na	na	na
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
EXTERIOR ORNAMENTAL TRIM MATERIAL					
Board Feet of Trim					
Solid wood / Lumber ornamental trim	31.10%	51.89%	38.16%	50.10%	39.81%
Plywood / LVL ornamental trim	0.78%	1.09%	0.88%	0.02%	0.76%
Hardboard or MDF ornamental trim	11.79%	4.18%	9.20%	2.67%	8.30%
Stucco on foam board ornamental trim	12.27%	0.53%	8.28%	12.72%	8.89%
Urethane plastic ornamental trim	4.37%	1.66%	3.45%	8.74%	4.18%
Vinyl (wrap) ornamental trim	20.19%	20.13%	20.17%	15.53%	19.53%
Fiber cement ornamental trim	3.89%	2.49%	3.42%	0.00%	2.95%
Wood / PLASTIC composite ornamental trim	5.21%	3.80%	4.73%	10.19%	5.48%
OSB ornamental trim	na	na	na	na	na
Aluminum (wrap) ornamental trim	na	na	na	na	na
Steel ornamental trim	na	na	na	na	na
Cellular PVC or solid vinyl ornamental trim	8.19%	2.11%	6.12%	0.04%	5.28%
Other ornamental trim	2.22%	12.13%	5.59%	0.00%	4.82%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
OUTDOOR STRUCTURES					
PATIO MATERIAL					
Square Feet					
Poured concrete	11.77%	27.61%	14.57%	23.57%	14.96%
Concrete pavers	28.43%	21.24%	27.16%	26.88%	27.15%
Brick pavers	na	na	na	na	na
Natural stone	25.63%	5.04%	22.00%	5.41%	21.26%
Brick or clay tiles	9.40%	12.69%	9.98%	18.54%	10.36%
Treated wood block	na	na	na	na	na
Other	24.76%	33.42%	26.29%	25.60%	26.26%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
DECK MATERIAL					
Square Feet					
Treated wood	65.24%	51.69%	60.84%	60.05%	60.77%
Cedar	17.60%	10.29%	15.23%	7.70%	14.48%
Redwood	4.13%	0.20%	2.85%	3.93%	2.96%
Other untreated wood	3.21%	9.23%	5.16%	6.44%	5.29%
PVC, vinyl, or fiberglass	0.17%	19.91%	6.57%	16.08%	7.52%
Wood / Plastic composite (Trex, etc.)	9.65%	8.68%	9.34%	5.80%	8.98%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
PORCH MATERIAL					
Square Feet					
Treated wood	32.40%	34.05%	32.90%	24.69%	31.94%
Cedar	7.02%	8.07%	7.34%	8.49%	7.47%
Redwood	4.57%	0.18%	3.24%	17.30%	4.88%
Other untreated wood	9.70%	20.36%	12.93%	11.01%	12.71%
Tiles: brick or clay	1.34%	10.47%	4.11%	0.00%	3.63%
Plastic and composites	28.19%	19.72%	25.63%	22.01%	25.20%
Brick & stone	0.37%	0.27%	0.34%	0.00%	0.30%
Concrete	16.40%	6.88%	13.52%	16.50%	13.87%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
WALKWAY MATERIAL					
Linear Feet					
Poured concrete	13.62%	32.19%	19.00%	23.58%	19.24%
Concrete paver	40.01%	53.13%	43.81%	60.63%	44.70%
Brick paver or brick / clay tiles	11.30%	3.70%	9.10%	5.83%	8.93%
Natural stone (include gravel or stone)	28.04%	6.76%	21.87%	4.11%	20.93%
Treated wood block	na	na	na	na	na
Asphalt and other	7.03%	4.21%	6.22%	5.85%	6.20%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%

	EAST CANADA	OWNER OCCUPIED WEST CANADA	CANADA	RENTER OCCUPIED CANADA	TOTAL REMODELING CANADA
FENCING TYPE / MATERIAL					
Square Feet of Fence					
Wood -- vertical boards on alternating sides	40.85%	19.77%	32.47%	47.18%	33.41%
Wood -- vertical boards on one side	18.22%	41.03%	27.28%	24.78%	27.12%
Wood with horizontal rails / boards	7.39%	13.88%	9.97%	9.72%	9.96%
Metal	21.10%	16.36%	19.22%	13.31%	18.84%
Wood/Plastic composite, Vinyl, PVC, or other	10.20%	5.45%	8.31%	5.00%	8.10%
Stucco on wood frame	na	na	na	na	na
Stone (natural or synthetic)	1.98%	3.01%	2.39%	0.00%	2.24%
Brick	0.12%	0.49%	0.27%	0.00%	0.25%
Concrete (all types)	0.14%	0.00%	0.08%	0.01%	0.08%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%
LANDSCAPE-RETAINING WALL TYPE / MATERIAL					
Square Feet of Landscape / Retaining Wall					
Stone (natural or synthetic)	27.94%	12.59%	24.43%	44.92%	27.18%
Brick	4.17%	7.35%	4.90%	2.80%	4.62%
Concrete block	21.47%	27.16%	22.77%	9.80%	21.03%
Poured concrete	15.93%	6.37%	13.74%	2.27%	12.20%
Stucco on wood frame	na	na	na	na	na
Precast concrete	na	na	na	na	na
Wood timbers (landscape walls)	30.48%	46.53%	34.16%	40.21%	34.97%
TOTAL	100.00%	100.00%	100.00%	100.00%	100.00%

WOOD PRODUCTS COUNCIL

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