2013

Wood Products and Other Building Materials Used in New Residential Construction in Canada

WITH COMPARISON TO PREVIOUS STUDIES

APA

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WOOD PRODUCTS AND OTHER BUILDING MATERIALS USED IN NEW RESIDENTIAL CONSTRUCTION IN CANADA, WITH COMPARISON TO PREVIOUS STUDIES

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ABSTRACT

New residential construction is a critical driver of the demand for lumber, structural panels and engineered wood products in Canada. For the period 2010 through 2013, residential construction accounted for roughly 23 percent of the lumber consumed in Canada and 47 percent of structural panel usage. Insufficient data concerning imports and exports prevent estimates of the residential share of engineered wood products consumption.

The focus of this study is for the year 2013. Based on the data provided by Home Innovation Research Labs survey of home builders, 1.262 billion board feet (bf) of lumber, 226 million board feet equivalent (bfe) of engineered wood products and 1.133 billion square feet, 3/8-inch basis (ft^2) of structural panels were required to frame and sheath the new single-family units built in 2013. The construction of low rise multifamily unit buildings is estimated to have required 522 million bf of lumber, 113 million bfe of engineered wood products and 292 million ft^2 of structural panels.

The primary competitive building materials include concrete for floors and walls, steel for framing, nonwood sheathing products for exterior walls and plastic composite lumber substitutes used for outdoor deck surfaces. Estimates of the use of these products in single-family and multifamily construction provide the means for developing potential increases in wood products utilization. In total, the potential gain in lumber and engineered wood usage by substituting away from steel, concrete, and plastic decking products is 316 million bfe. The potential gain in plywood and OSB usage by substituting away from concrete and other competing sheathing products is estimated to be 338 million ft^2.

INTRODUCTION

New residential construction is the building of housing units onsite, which includes single-family homes and multifamily unit structures. For the purposes of this research, single-family units include detached single-family homes, semi-detached homes and row houses. Multifamily structures include buildings where the units are either built for rent or for sale.

This is another in a series of studies driven by APA-The Engineered Wood Association, USDA Forest Service and other sponsoring organizations to estimate the actual wood product use in new residential construction and potential increases where wood products could be substituted for other building materials (Adair and McKeever, 2006). Due to funding constraints, this study is focused on just the use of wood products for structural applications to construct the building (foundations, walls, floors, roofs, beams, headers, rim boards and exterior decks and porches). Excluded from this study are hardwood lumber and other wood products used for finished flooring, exterior siding and trim, millwork (doors, windows, cabinets, interior trim, stairs and other applications) outdoor fencing, landscaping or wood used to facilitate the construction process (forms and scaffolding). This is different from previous studies, which were more comprehensive. Accommodation for this difference has been made in the comparisons with the findings from the previous studies. Allowances for onsite waste and loss are included in the usage estimates: 10 percent for lumber (not including trusses), 10 percent for structural and nonstructural panels and 5 percent for engineered wood products.

Data Sources

The primary data source for this study was the Home Innovations Research Labs (Home Innovations) product usage estimates based on their 2013 Annual Builder Practices Survey (ABPS). The ABPS is a paper-based survey of Canadian based home builders and developers designed to create material usage coefficients of entire home-building companies nationwide. Some home building companies have multiple offices throughout Canada, so each local building establishment of regional and national firms is treated as a single entity. This means questionnaires were sent to local building establishments, not to regional or national offices.

Wood products definitions and units of measure, regional definitions and other terms used in this report can be found in Appendix A. Detailed material usage estimates provided by Home Innovations are provided in Appendix B.

Housing Activity Measures

Canadian housing starts data are made available by the Canadian Mortgage and Housing Corporation (2015). The data are arrayed by type of structure and on a geographical basis. A number of factors influence the level of new residential construction in any year relative to the next. They include household growth, replacement of units destroyed due to disaster or demolition, conversion of existing structures to other uses and vice versa, the level of interest rates, lending standards, consumer confidence and more. In contrast to the U.S., outside of the 2009 recession, housing starts in Canada have been relatively stable. The mix of new housing units has changed considerably over the last 10 to 15 years as detached single-family homes have played a relatively smaller role in meeting the demand for new housing in Canada.

OBJECTIVES

There were several objectives for conducting this study as listed below.

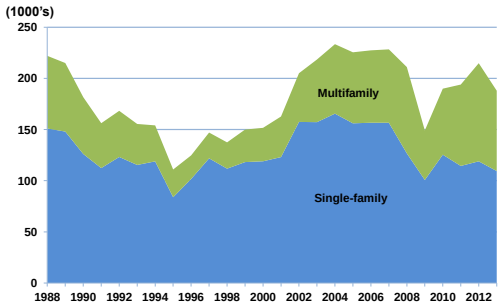
- Estimate the total use of lumber, structural panels, engineered wood products and competing materials in the construction of new housing units in Canada for the year 2013.
- Develop estimates of wood products and competing products used in new residential buildings by type of building, by region of the country and structural application (floors, walls, roofs and foundations).
- Estimate the potential incremental usage of wood products by building type, region and structural application. Potential wood use is the additional volume of wood products that could be used if all structural applications were built entirely with wood. This measure does not include conversion of concrete and masonry foundations to wood.
- Where possible, compare the estimated level of wood products used, either on a per start or per square foot basis with the estimates from previous studies.

NEW RESIDENTIAL CONSTRUCTION ACTIVITY

Housing starts in Canada in 2006 totaled 227,000 units, which was very close to the average of 221,000 starts for the years running from 2001 to 2008. (See Figure 1.) During the recession of 2009, housing starts in Canada fell to 149,000 units and then bounced back to 190,000 units in 2010. From 2011 to 2013 housing starts averaged near 199,000 units, with starts in 2013 totaling 188,000 units.

Figure 1

Canada Housing Starts



Source: CMHC

In contrast to the U.S., Canada did not experience a housing bubble in the previous decade, largely due to the benefits of a much more disciplined housing finance system. What is similar to the U.S. is that multifamily units, or referred to in the data tables in Appendix B as apartments in Canada, have accounted for a greater share of starts since 2008. In 2006, the last year for which wood product usage was analyzed in-depth, multifamily units accounted for 31 percent of housing starts in Canada. In 2013, the multifamily share was 41 percent.

The regional shares of housing starts have changed very little from 2006 to 2013. In 2006, the Eastern region of Canada, which consists of the Atlantic provinces, Quebec and Ontario, accounted for 59 percent of the starts, compared to 58 percent of the starts in 2013. (See Table 1.) In both the Eastern and Western regions, where the West consists of Manitoba, Saskatchewan, Alberta and British Columbia, multifamily units accounted for a greater share of newly constructed housing units. One factor driving the shift towards multifamily tenure is the increased preference to live within the urban centers, which is also a trend that has gained in popularity in the U.S.

Table 1

Housing Starts in Canada by Region (Thousands)

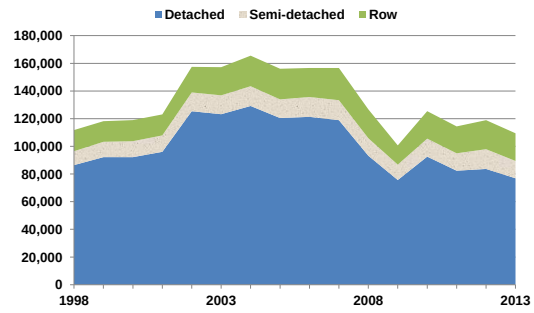
	2006			2013		
Region	**SF**	**MF**	**Total**	**SF**	**MF**	**Total**
East	89	44	133	60	49	109
West	68	26	94	50	29	79
Total	**157**	**70**	**227**	**109**	**78**	**188**

Source: CMHC (2015).

In contrast to the U.S., where the homeownership rate has been on a downward trend since the bursting of the housing bubble in 2006, the homeownership rate in Canada rose from 68.4 percent in 2006 to 69 percent in 2011, the last year where ownership rate estimates are available. Multifamily units are playing a bigger role in satisfying the desire to own and live closer to the urban core. In addition, there has been a trend in land-use zoning that has constrained the building of single-family detached homes, which contributed to more expensive homes in urban centers. For purposes of this report, it is very important to depict the change in the composition of single-family starts. For the period running from 2002 to 2007, single-family starts in Canada averaged slightly more than 158,000 per year. (See Figure 2). Detached units accounted for 78 percent of the single-family starts during that period. In 2013 single-family starts totaled 109,430 with detached units just shy of 77,000 and accounted for 70 percent of all single-family starts.

Figure 2

Single-family Housing Starts in Canada, By Type of Structure



Source: CMHC

Understanding this shift in the composition of single-family starts is one critical element in the discussion to follow concerning the change in wood product use per start from 2006 to 2013. As shown in Table 2, the average size of new single-family detached homes was up 7.9 percent in 2013 when compared to 2006, while the average size of semi-detached and rowhouses combined fell 1 percent. Thus the average size of all new single-family units started rose 3.0 percent in 2013 when compared to 2006. However, if the relative shares of single-family starts had remained constant from 2006 to 2013, the average size of all single-family units started would have been 1,979 square feet, 6.2 percent greater than in 2006 or 3.2 percent more than what actually occurred.

Table 2

Average Size of Housing Units Started by Type of Structure (Square Feet)

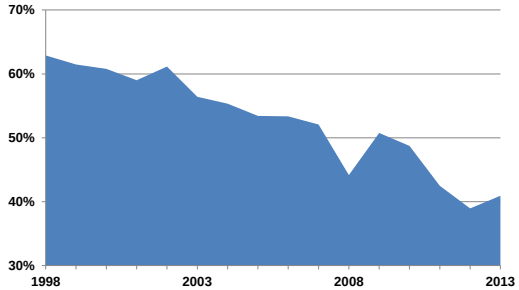
	2006	2013
Single-family units		
Single-family detached	2,011	2,169
Semi-detached and rowhouses	1,339	1,326
Weighted average single-family homes	1,863	1,918
Multifamily units	1,162	1,214

Source: Home Innovation Research Labs

Accounting for the growth in multifamily starts, the detached single-family unit share of all housing starts has been on a downward trend since 1998, as shown in Figure 3.

Figure 3

Detached Single-family Starts Share of Total Housing Starts in Canada



Source: CMHC

The changing composition of single-family starts from 2006 to 2013 was a countrywide trend. As shown in Table 3, the detached share of single-family starts fell from almost 77 percent in the Eastern provinces and 78.5 percent in the Western provinces to 70.3 percent in both regions in 2013.

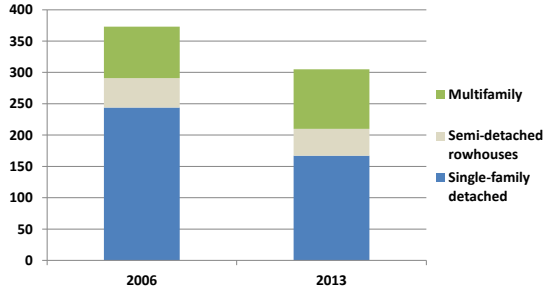
Table 3
Relative Regional Distribution of Single-family Housing Starts in Canada 2006 and 2013

	2006		2013	
	East	West	East	West
Detached	76.7%	78.5%	70.3%	70.3%
Semi-detached	8.9%	9.5%	11.2%	11.8%
Row house	14.4%	12.0%	18.6%	17.9%

Source: CMHC

The square footage of all new residential construction started in 2006 totaled 373.5 million square feet and fell to 305.2 million square feet in 2013 (see Figure 4). The decline in square footage of all new residential units started from 2006 to 2013 was 18.3 percent and the decline in housing starts was 17.4 percent. However, the average size of single-family detached starts and multifamily starts rose 7.9 percent and 4.5 percent, respectively, more than offsetting the 1 percent drop in average size of semi-detached and row houses started. Thus, the shift away from single-family detached units reduced the square footage of new residential construction by 7.2 percent in 2013 relative to what would have been the case if the share had not changed from 2006.

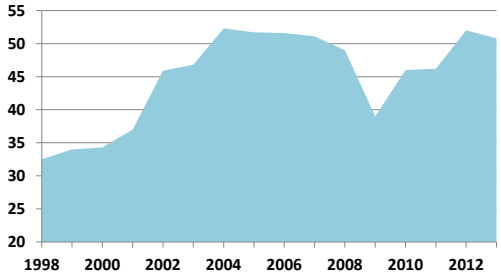
Figure 4
Square Footage of New Residential Construction in Canada
(Million Square Feet)



Source: CMHC, Home Innovation Research Labs

Investment in new residential structures, in terms of 2007 Canadian dollars, totaled $50.8 billion in 2013 (see Figure 5). This is about 2 percent below the average of the peak levels of the 2004-2007 period. The Canadian economy has grown 11 percent since 2005, meaning new residential construction as a share of real GDP has fallen from 3.5 percent in 2005 to 3.1 percent in 2013.

Figure 5
Investment in New Residential Construction, Canada
(Billion 2007 Canadian Dollars)



Source: Stats Canada

COMPARISON OF WOOD PRODUCT USAGE IN NEW SINGLE-FAMILY CONSTRUCTION FROM 2003, 2006 AND 2013

Table 4 provides detailed data comparing the amount of wood product usage by product in aggregate and on a per start basis and on a per square foot of floor area basis for floors, walls and roofs in new single-family construction. From the standpoint of wood product total usage, the 41 percent drop from 2006 to 2013 in lumber and engineered wood products use for structural framing and 36 percent fall in structural panel use for sheathing purposes should not be surprising given the 31 percent drop in single-family starts and 28 percent decline in square footage. It is important to point out that for the most part, wood product usage per start for each product fell between 2006 and 2013. Within the construction of the structural frame, combined lumber and engineered wood usage fell 15 percent on a per start basis. Structural panel usage for sheathing purposes declined 8 percent on a per start basis. On a per square foot of floor basis, combined lumber and engineered wood usage is estimated to have declined 17 percent from 2006 to 2013. The decline in sheathing use on a per square foot basis was less severe at 10 percent.

Table 4

Wood Products Usage In Single-family Construction, Canada

	Total Usage (Millions)			Usage per Start			Usage per Sq. Ft. of Floor Area		
	2003	2006	2013	2003	2006	2013	2003	2006	2013
FLOOR SYSTEMS									
Softwood Lumber (Bf)	314	266	197	1,997	1,696	1,804	1.16	0.91	0.94
Engineered Wood (Bf, equivalent)	274	401	196	1,743	2,563	1,791	1.02	1.38	0.93
Subtotal (Bf, equivalent)	588	667	393	3,740	4,259	3,595	2.18	2.29	1.87
Plywood (Sf, 3/8" basis)	219	306	199	1,393	1,953	1,814	0.81	1.05	0.95
OSB (Sf, 3/8" basis)	332	336	226	2,112	2,146	2,068	1.23	1.15	1.08
Subtotal (Sf, 3/8" basis)	551	642	425	3,505	4,098	3,882	2.04	2.20	2.02
WALL SYSTEMS									
Softwood Lumber (Bf)	808	868	566	5,139	5,541	5,169	3.00	2.97	2.70
Engineered Wood (Bf, equivalent)	23	20	12	146	128	110	0.09	0.07	0.06
Subtotal (Bf, equivalent)	831	888	578	5,286	5,669	5,279	3.09	3.04	2.76
Plywood (Sf, 3/8" basis)	72	113	83	458	724	755	0.27	0.39	0.39
OSB (Sf, 3/8" basis)	306	362	207	1,946	2,312	1,889	1.13	1.24	0.99
Subtotal (Sf, 3/8" basis)	378	475	289	2,404	3,035	2,645	1.40	1.63	1.38
ROOF SYSTEMS									
Softwood Lumber (Bf)	511	639	323	3,250	4,082	2,953	1.89	2.19	1.54
Engineered Wood (Bf, equivalent)	6	14	18	38	88	166	0.02	0.05	0.09
Subtotal (Bf, equivalent)	517	653	341	3,289	4,170	3,119	1.91	2.24	1.63
Plywood (Sf, 3/8" basis)	205	290	245	1,304	1,853	2,241	0.76	0.99	1.17
OSB (Sf, 3/8" basis)	347	344	169	2,207	2,196	1,545	1.29	1.18	0.81
Subtotal (Sf, 3/8" basis)	552	634	414	3,511	4,049	3,786	2.05	2.17	1.98
TOTAL STRUCTURAL & SHEATHING									
Softwood Lumber (Bf)	1,633	1,773	1,086	10,387	11,319	9,926	6.05	6.07	5.18
Engineered Wood (Bf, equivalent)	303	435	226	1,927	2,779	2,066	1.12	1.49	1.08
Subtotal (Bf, equivalent)	1,936	2,208	1,312	12,314	14,098	11,992	7.17	7.56	6.26
Plywood (Sf, 3/8" basis)	496	710	526	3,155	4,530	4,811	1.84	2.43	2.51
OSB (Sf, 3/8" basis)	985	1,042	602	6,265	6,653	5,502	3.65	3.57	2.87
Subtotal (Sf, 3/8" basis)	1,481	1,752	1,129	9,420	11,183	10,313	5.49	6.00	5.38

*Units fo rusage per start are bf, lumber; bf equivalent engineered wood; sf, 3/8" basis for plywood and OSB.

The usage rate declines cannot be attributed to a regional shift in the mix of single-family starts because the regional shares were not much different between the two years. In 2006, the Eastern region accounted for 57 percent of single-family starts in Canada, while in 2013 the region's share of single-family starts was 55 percent.

The wood product usage data provided by Home Innovation are not separated by type of single-family unit started. With that in mind, it is appropriate to attribute some of the decline in wood product usage either on a per start or per square foot of floor area basis to the decline in the detached unit share of single-family starts which was discussed in the previous section. As will be discussed in the Structural Framing and Sheathing Materials Usage section, the estimates provided by Home Innovations suggest a significant increase in the use of concrete in single-family construction at the expense of wood product and other building materials.

As pointed out earlier in Table 3, the decline in the detached unit share of single-family starts held across the country in total. Therefore, when comparing the change in wood product usage per start across the two regions between 2006 and 2013, the declines are fairly close to one another.

As shown in Table 5, within Eastern Canada combined lumber and engineered wood product usage per start for structural framing fell 12 percent from 13,468 bfe to 11,886 bfe. Lumber usage per start declined 15 percent from 11,641 bf to 9.858 bf. Engineered wood product usage per start is estimated to have actually increased 11 percent from 1,828 board feet equivalent to 2,028 board feet equivalent. Structural panel usage per start fell 7 percent from 10,382 square feet to 9,649 square feet. The drop in plywood usage per start was less than that of OSB, down 4.5 percent for plywood versus 9 percent for OSB. Plywood use per start is estimated to have fallen 13 percent in floor systems, increased 30 percent in wall sheathing and fallen 5 percent in the roof application. OSB use in floor systems rose 11 percent, fell 10 percent in wall sheathing and dropped 24 percent in roof systems. In total, plywood's share of structural panel usage increased slightly, going up from 50 percent in 2006 to 51 percent in 2013.

Within Western Canada, lumber and engineered wood product use for structural framing declined from 14,947 board feet equivalent in 2006 to 12,128 board feet equivalent in 2013, a drop of 19 percent (see Table 6). The decline in structural panel use for sheathing purposes was less severe, falling 9 percent. Plywood use per start is estimated to have risen 29 percent, driven by almost a doubling of use in roof sheathing and more than offsetting the 34 percent decline in estimated OSB use. Plywood use is also shown to have increased 6 percent in floor systems while OSB use fell 16 percent. In the wall application, plywood use fell just 11 percent, whereas OSB use fell 26 percent. Adding it up, plywood's share of structural panel use for sheathing applications is estimated to have risen from 30 percent in 2006 to 42 percent in 2013.

Table 5

Wood Products Usage In Single-family Construction, Eastern Canada

	Total Usage		Usage per Start*	
	2006	2013	2006	2013
Single-family Starts (1000s)	90	60		
FLOOR SYSTEMS				
Softwood Lumber (mmbf)	210	121	2,330	2,015
Engineered Wood (mmbf, equivalent)	150	103	1,668	1,721
Subtotal (mmbf, equivalent)	359	224	3,998	3,736
Plywood (mmsf, 3/8" basis)	204	118	2,271	1,975
OSB (mmsf, 3/8" basis)	145	107	1,612	1,793
Subtotal (mmsf, 3/8" basis)	349	225	3,883	3,768
WALL SYSTEMS				
Softwood Lumber (mmbf)	463	292	5,151	4,888
Engineered Wood (mmbf, equivalent)	9	7	101	117
Subtotal (mmbf, equivalent)	472	299	5,252	5,005
Plywood (mmsf, 3/8" basis)	46	40	511	662
OSB (mmsf, 3/8" basis)	162	97	1,799	1,622
Subtotal (mmsf, 3/8" basis)	208	137	2,311	2,285
ROOF SYSTEMS				
Softwood Lumber (mmbf)	374	177	4,159	2,955
Engineered Wood (mmbf, equivalent)	5	11	58	190
Subtotal (mmbf, equivalent)	379	188	4,218	3,144
Plywood (mmsf, 3/8" basis)	217	137	2,418	2,297
OSB (mmsf, 3/8" basis)	159	78	1,770	1,300
Subtotal (mmsf, 3/8" basis)	377	215	4,187	3,597
TOTAL STRUCTURAL & SHEATHING				
Softwood Lumber (mmbf)	1,047	590	11,641	9,858
Engineered Wood (mmbf, equivalent)	164	121	1,828	2,028
Total (mmbf, equivalent)	1,211	711	13,468	11,886
Plywood (mmsf, 3/8" basis)	468	295	5,200	4,934
OSB (mmsf, 3/8" basis)	466	282	5,181	4,715
Total (mmsf, 3/8" basis)	933	577	10,382	9,649

*Units for usage per start are bf, lumber; bf equivalent engineered wood; sf, 3/8" basis for plywood and OSB.

Table 6

Wood Products Usage In Single-family Construction, Western Canada

	Total Usage		Usage per Start*	
	2006	2013	2006	2013
Single-family Starts (1000s)	67	50		
FLOOR SYSTEMS				
Softwood Lumber (mmbf)	56	77	841	1,550
Engineered Wood (mmbf, equivalent)	251	93	3,769	1,875
Subtotal (mmbf, equivalent)	308	170	4,610	3,424
Plywood (mmsf, 3/8" basis)	102	80	1,523	1,620
OSB (mmsf, 3/8" basis)	191	119	2,865	2,400
Subtotal (mmsf, 3/8" basis)	293	199	4,388	4,021
WALL SYSTEMS				
Softwood Lumber (mmbf)	405	273	6,067	5,508
Engineered Wood (mmbf, equivalent)	11	5	164	101
Subtotal (mmbf, equivalent)	416	278	6,231	5,609
Plywood (mmsf, 3/8" basis)	67	45	1,010	900
OSB (mmsf, 3/8" basis)	200	110	3,002	2,211
Subtotal (mmsf, 3/8" basis)	268	154	4,012	3,112
ROOF SYSTEMS				
Softwood Lumber (mmbf)	265	147	3,979	2,958
Engineered Wood (mmbf, equivalent)	8	7	127	137
Subtotal (mmbf, equivalent)	274	154	4,106	3,095
Plywood (mmsf, 3/8" basis)	73	108	1,093	2,175
OSB (mmsf, 3/8" basis)	185	91	2,770	1,840
Subtotal (mmsf, 3/8" basis)	258	199	3,863	4,014
TOTAL STRUCTURAL & SHEATHING				
Softwood Lumber (mmbf)	726	497	10,887	10,016
Engineered Wood (mmbf, equivalent)	271	105	4,060	2,112
Total (mmbf, equivalent)	997	602	14,947	12,128
Plywood (mmsf, 3/8" basis)	242	233	3,627	4,695
OSB (mmsf, 3/8" basis)	576	320	8,637	6,452
Total (mmsf, 3/8" basis)	818	553	12,263	11,147

*Units for usage per start are bf, lumber; bf equivalent engineered wood; sf, 3/8" basis for plywood and OSB.

STRUCTURAL FRAMING MATERIALS USAGE

Table 7 provides a comparison of the amount of lumber, engineered wood product and competing products used in the structural framing of new single-family construction on a regional basis for 2006 and 2013. The usage estimates for concrete and steel are expressed in board-foot equivalents. Clearly the decline in single-family starts from 2006 to 2013 played a major role in driving the decline in wood product material usage. However this did not hold for concrete. Across Canada, concrete usage in floors and walls was estimated to have risen substantially from 2006 to 2013.

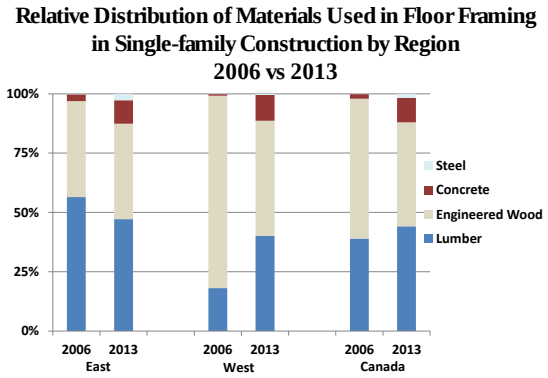
Table 7

Comparison of Structural Framing Material Usage in Single-family Construction, by Region, 2006 vs 2013

	East Canada		West Canada		Canada	
	2006	2013	2006	2013	2006	2013
Floors						
Softwood Lumber/Beams (MMBF)	210	121	56	77	266	198
Engineered Wood (MMBF equivalent)	150	103	252	93	402	196
Concrete (MMBF equivalent)	11	25	2	21	13	46
Steel (MMBF equivalent)	1	7	1	1	1	8
Subtotal (MMBF equivalent)	**371**	**256**	**310**	**192**	**681**	**447**
Walls						
Softwood Lumber/Beams (MMBF)	463	292	405	273	868	566
Engineered Wood (MMBF equivalent)	9	7	11	5	20	12
Concrete (MMBF equivalent)	25	89	3	27	28	116
Steel (MMBF equivalent)	18	9	0	1	18	10
Subtotal (MMBF equivalent)	**515**	**397**	**419**	**307**	**934**	**704**
Roofs						
Softwood Lumber/Beams (MMBF)	374	177	266	146	640	323
Engineered Wood (MMBF equivalent)	5	11	9	7	14	18
Steel (MMBF equivalent)	0	1	0	0	0	1
Subtotal (MMBF equivalent)	**379**	**189**	**274**	**154**	**654**	**343**
Total Structural Assemblies						
Softwood Lumber/Beams (MMBF)	1,047	590	727	497	1,773	1,086
Engineered Wood (MMBF equivalent)	164	121	271	105	435	226
Concrete (MMBF equivalent)	36	114	5	48	41	162
Steel (MMBF equivalent)	18	17	1	3	19	19
Total (MMBF equivalent)	**1,265**	**842**	**1,003**	**652**	**2,269**	**1,494**

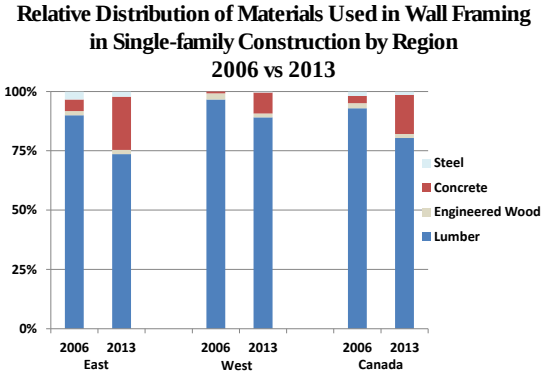
Shown in Figure 6 is the relative distribution of materials used in floor framing in single-family construction and there is very little difference in Eastern and Western Canada in the respective market shares of concrete in 2006 and 2013. With respect to wood product usage, the most important change is the apparent loss in market share of engineered wood products in Western Canada. Single-family starts in Western Canada in 2013 were down 18 percent from 2006, yet engineered wood product usage in floor systems is estimated to have declined 63 percent. Lumber use is estimated to have risen 38 percent.

Figure 6



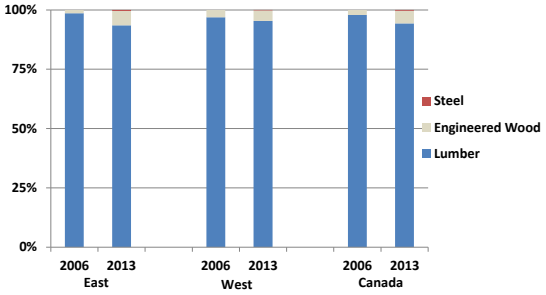
Concrete use also increased in volume terms in wall framing despite the decline in single-family starts. Still, lumber accounted for 80 percent of the material usage in wall framing, with the market shares in Eastern and Western Canada at 74 percent and 89 percent, respectively, in 2013 (see Figure 7).

Figure 7



There was little change in the relative shares of products used in roof framing from 2006 to 2013. As shown in Figure 8, lumber accounted for 94 percent of the material usage in roof framing in 2013 compared to 98 percent in 2006.

Figure 8



SHEATHING MATERIALS AND UNDERLAYMENT

Table 8 summarizes the use of structural panels and competing materials in sheathing applications in new single-family home construction. Concrete and foam panel usage estimates are expressed in terms of 3/8 inch equivalents. Similar to framing applications, the volume of concrete used in floor and wall applications rose throughout Canada despite the decline in single-family starts. Total materials usage in sheathing and underlayment applications fell 30 percent, roughly in line with the 31 percent drop in single-family starts. On a regional basis, the decline in total materials usage essentially matches the drop in starts. In Eastern Canada total materials usage in sheathing applications fell 34 percent, while single-family starts dropped 33 percent. In Western Canada, materials usage declined 23 percent and starts were down 25 percent.

Table 8

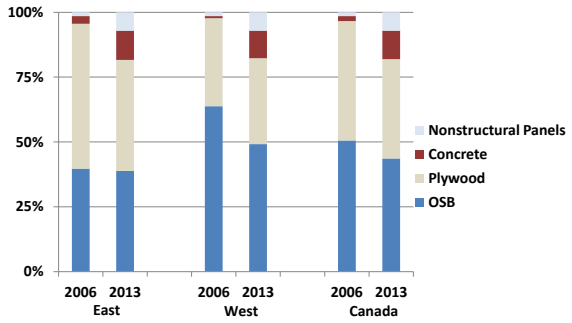
Comparison of Sheathing Material Usage in Single-family Construction, by Region, 2006 vs 2013

	East Canada		West Canada		Canada	
	2006	2013	2006	2013	2006	2013
Floors						
Plywood, (MMSF, 3/8" basis)	204	118	102	80	306	199
OSB (MMSF, 3/8" basis)	145	107	191	119	336	226
Nonstructural panels (MMSF, 3/8" basis)	5	20	5	17	10	37
Concrete (MMSF 3/8" equivalent)	11	31	2	26	13	57
Subtotal (MMSF 3/8" equivalent)	**365**	**276**	**300**	**242**	**665**	**518**
Walls						
Plywood, (MMSF, 3/8" basis)	46	39	67	45	113	83
OSB (MMSF, 3/8" basis)	162	97	200	110	362	207
Nonstructural panels (MMSF, 3/8" basis)	14	0	3	4	17	4
Concrete (MMSF 3/8" equivalent)	30	84	3	38	33	122
Foam (MMSF 3/8" equivalent)	131	26	4	3	135	29
Subtotal (MMSF 3/8" equivalent)	**383**	**246**	**277**	**199**	**660**	**445**
Roofs						
Plywood, (MMSF, 3/8" basis)	217	137	73	108	290	245
OSB (MMSF, 3/8" basis)	159	78	185	91	344	169
Subtotal (MMSF 3/8" equivalent)	**377**	**215**	**258**	**199**	**634**	**414**
Total Structural Assemblies						
Plywood, (MMSF, 3/8" basis)	468	294	242	233	710	527
OSB (MMSF, 3/8" basis)	466	282	576	320	1,042	602
Nonstructural panels (MMSF, 3/8" basis)	19	20	8	21	27	40
Concrete (MMSF 3/8" equivalent)	41	116	5	63	45	179
Foam (MMSF 3/8" equivalent)	131	26	4	3	135	29
Total (MMSF 3/8" equivalent)	**1,124**	**738**	**834**	**640**	**1,958**	**1,378**

Increases in both concrete and nonstructural panel use in floor applications were realized while structural panel use declined resulting in a relatively large drop in the structural panel share of the floor market. In 2006, structural panels accounted for roughly 96 percent of the floor market in Canada, with little difference between Eastern and Western Canada. In 2013, the regional shares were nearly identical at roughly 83 percent. (See Figure 9.)

Figure 9

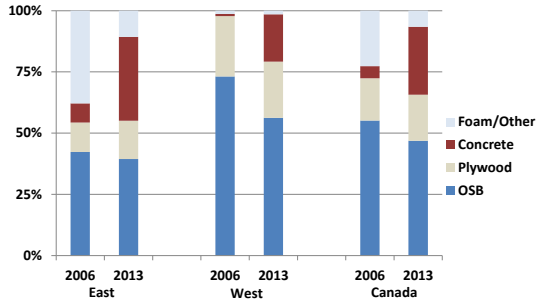
Relative Distribution of Materials Used in Floor Sheathing in Single-family Construction by Region 2006 vs 2013



Concrete use in wall applications is estimated to have surged across the country. The increase was not only at the expense of structural and nonstructural panels, but also at the expense of foam sheathing products. As shown in Figure 10, the concrete share of the exterior wall market rose from 5 percent in 2006 to almost 28 percent of the market in 2013. Regionally, the gain in concrete usage in Eastern Canada essentially came at the expense of foam sheathing, while in Western Canada concrete's increase came at the expense of wood structural panels.

Figure 10

Relative Distribution of Materials Used in Exterior Wall Sheathing in Single-family Construction by Region 2006 vs 2013



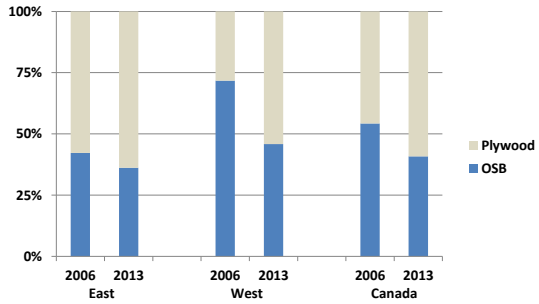
The increased presence of concrete in the wall application in single-family construction was driven by two forces.They were:

- the higher share of rowhouses in single-family construction, and
- greater use of concrete in the shared walls for fire protection and sound reduction purposes.

Inroof sheathing application, the main event is that plywood gained share against OSB throughout Canada. (See Figure 11.)

Figure 11

Relative Distribution of Materials Used in Roof Sheathing in Single-family Construction by Region 2006 vs 2013

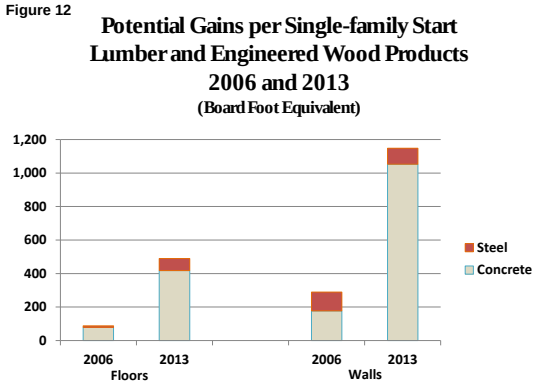


POTENTIAL GAINS

The increased use concrete in single-family construction means there has been a big change in the potential use of wood products going forward from 2013. Rather than dimension the potential gain in the aggregate as done in the previous study, this time the potential gain is being shown on a per start basis.

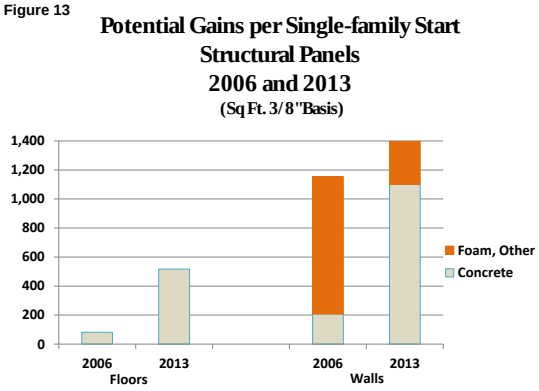
With respect to lumber and engineered wood products, the potential gain in framing applications has increased from 378 board feet per start in 2006 to 1,437 board feet per start in 2013. As shown in Figure 12, the majority of the change has come from the increase in concrete use, most notably in walls.

Figure 12



The change in the potential gain in structural panel use is slightly less dramatic than in the case of lumber and engineered wood products from a total change standpoint. In 2006, the total potential gain available to structural panels between floors and walls was 1,236 square feet on a per start basis. In 2013, the potential gain stood at 1,913 square feet on a per start basis, up 55 percent from 2006. Clearly there was some substitution of concrete away from structural panels, especially in floors. The biggest change though was the apparent increase in the use of concrete at the expense of foam and other sheathing materials (see Figure 13).

Figure 13



WOOD PRODUCT MATERIAL USAGE IN NEW MULTIFAMILY CONSTRUCTION

Given the increased role multifamily structures have played in meeting the demand for new housing throughout all of Canada, it was our intent to construct similar comparisons of wood product usage. However, as this analysis was being done, the calculations of wood product usage by application generated outcomes that were questionable. This was discussed with the research director at Home Innovations. In the conversation, the question was asked concerning the size of the sample relative to total multifamily units started. The 2013 sample accounted for 1.2 percent of all multifamily units started and less than 1 percent of multifamily starts in 2006. Therefore, the sample sizes do not appear to be large enough to provide the means to support reliable estimates of representative changes in product usage for the two years in question.

REFERENCES

Adair, Craig; McKeever, David B. 2009. Executive Summary. In: Wood products used in new residential construction U.S. and Canada, 2006 with comparisons to 1995, 1998 and 2003. Final report to the Wood Products Council. Tacoma, WA: APA–The Engineered Wood Association. 169 p. **http://www.fpl.fs.fed.us/documnts/pdf2009/fpl_2009_adair002.pdf**

Canada Mortgage and Housing Corporation. 2015. Publications and Reports. Housing Market Information Portal. **https://www03.cmhc-schl.gc.ca/catalog/productList.cfm?cat=55&lang=en&fr=1432654594187**

APPENDIX A – DEFINITIONS

Building Characteristics

Value of new construction (put in place). A measure of the value of construction installed or erected at the site during a given period, including:

- Cost of materials installed or erected.
- Cost of labor and a proportionate share of construction equipment rental cost.
- Contractor's profit and overhead.
- Miscellaneous overhead and office costs chargeable to the project on the owner's books.
- Interest and taxes paid during construction.

Floor area. Area measured from the outside of the exterior walls, and including all enclosed, usable floor space.

- Single-family – All completely finished floor space, including space in basements and attics with finished walls, floors, and ceilings. This does not include a garage, carport, porch, unfinished attic or utility room, or any unfinished area of the basement.
- Multifamily – All floor and associated living space. Floor space is defined as the floor area of all completely finished living space in the building, including the basement and attic, with finished walls, floors, and ceilings. This does not include a garage, carport, porch, unfinished attic or utility room, or any unfinished area of the basement. Associated living space is defined as hallways, elevator space, lobbies, and any other indoor space used by the residents.

Building application. Major structural systems in the building, including foundation, first and upper floors, exterior and interior walls, roofs, and decks and porches.

Framing type. Classification based on the principal type of building material used to construct the exterior wall of a new building. Principal framing types are:

- Wood–Exterior walls are primarily framed with lumber, or other wood products.
- Concrete–Concrete, masonry, stone, brick or block exterior walls.
- Steel–Steel framed or supported exterior walls.

Regions and Divisions

Regional definitions used in this report are indicated below:

Eastern province:
Atlantic provinces:
New Brunswick, Newfoundland, Labrador, Nova Scotia, Prince Edward Island,
Middle provinces:
Ontario, Quebec
Western provinces:
East provinces:
Prairies: Alberta, Manitoba, Saskatchewan
West provinces:
British Columbia

Residential Building Types

Single Family House. Fully detached, semidetached (semiattached, side-by-side), row houses, and townhouses. In the case of attached units, each must be separated from the adjacent unit by a ground-to-roof wall in order to be classified as a single-family structure. Also, units must not share heating/air-conditioning systems or utilities, such as water supply, power supply, or sewage disposal lines. Units built one on top of another and those built side-by-side that do not have a ground-to-roof wall and/or have common facilities (i.e., attic, basement, heating plant, plumbing, etc.) are not single-family houses.

Multifamily Housing Unit. Residential buildings containing units built one on top of another and those built side-by-side which do not have a ground-to-roof wall and/or have common facilities (i.e., attic, basement, heating plant, plumbing, etc.)

Wood Product Types

- **Lumber—**Solid sawn timber, including dimension, boards and squares, as well as beams, timbers and millwork.
- **Engineered Wood—**Composite wood products designed to substitute directly for dimension lumber in many building and structural applications. Includes prefabricated wood I-joists, glued laminated timber and structural composite lumber (laminated veneer lumber, parallel strand lumber, laminated strand lumber, and oriented strand lumber)
  - **Glued Laminated Timber (Glulam) —**An engineered stress-rated product created by adhesively bonding individual pieces of lumber or structural composite lumber having a thickness of 50 mm (2 in.) or less. It can be easily shaped into forms ranging from straight beams to complex curved members and is used for a wide variety of structural applications in both residential and nonresidential construction.
  - **Cross-Laminated Timber (CLT) —**A prefabricated solid engineered wood panel made of at least three orthogonally bonded layers of solid-sawn lumber or structural composite lumber (SCL) that are laminated by gluing of longitudinal and transverse layers with structural adhesives to form a solid rectangular-shaped, straight, and plane timber intended for roof, floor or wall applications.
  - **Prefabricated Wood I-Joist—**A structural member manufactured using sawn or structural composite lumber flanges and structural panel webs, bonded together with exterior exposure adhesives, forming an “I” cross-sectional shape. These members are primarily used as joists in floor and roof construction.
  - **Structural Composite Lumber (SCL) —**Structural composite lumber includes laminated veneer lumber (LVL), parallel strand lumber (PSL), laminated strand lumber (LSL), and oriented strand lumber (OSL). According to ASTM D 5456, these materials are intended for structural use and are bonded with exterior exposure adhesives. The following SCL definitions come from ASTM D 5456.
    - **Parallel Strand Lumber (PSL**) PSL is a composite of wood veneer strand elements with wood fibers primarily oriented along the length of the member. The least dimension of strands shall not exceed 0.25 in. (6.35 mm) and the average length shall be a minimum of 300 times the least dimension. PSL is commonly used for beam and column applications.
    - **Laminated Strand Lumber (LSL):** LSL is a composite of wood strand elements with wood fibers primarily oriented along the length of the member. The least dimension of the strands shall not exceed 0.10 inches (2.54 mm) and the average length shall be a minimum of 150 times the least dimension. LSL can be used for a variety of applications, including beams, headers, studs, rim boards, and I-joist flanges.
    - **Laminated Veneer Lumber (LVL):** LVL is a composite of wood veneer sheets whose fibers are primarily oriented along the length of the member. Veneer thickness shall not exceed 0.25 inches (6.35 mm). LVL can be used in a variety of applications, including I-joist flanges, beams, headers, and studs.
    - **Oriented Strand Lumber (OSL):** OSL is a composite of wood strands whose fibers are primarily oriented along the length of the member. The least dimension of the strands shall not exceed 0.10 inches (2.54 mm) and the average length shall be a minimum of 75 times the least dimension. OSL may be used in a variety of applications, including beams, headers, studs, and rim boards.
- **Structural Wood Panels**
  - **Softwood (structural) Plywood:** Plywood consists of veneers arranged in perpendicular layers. Performance-rated plywood is typically used in roof, floor and wall construction applications, although there are also a variety of grades for industrial applications.
  - **Oriented Strand Board (OSB):** A structural, performance-rated panel product, OSB consists of wood strands. Unlike glulam, the strands of OSB are not random, but are layered and oriented for maximum strength and stability. Designed to be used in the same construction applications as plywood.

- **Nonstructural wood panels—**Wood-based panels not specifically designed for structural applications. Includes particleboard, medium density fiberboard, hardboard, insulation board, and hardwood plywood. Uses include siding, floor underlayment, interior wall paneling, and numerous industrial applications.

Wood Product Units of Measure

Wood product	Unit of measure	Abbre-viation	BFE[1]
Lumber[2]	Board feet	bf	1.0
Engineered wood			
I-joist	Linear feet	lf	2.0
Glulam	Board feet	bf	1.0
SCL[3]	Cubic feet	ft^3	16.0
Rim boards[4]	Square feet, 3/8-inch basis	ft^2	0.5
Structural panels[4]	Square feet, 3/8-inch basis	ft^2	0.5
Nonstructural panels[5]	Square feet, 3/8-inch basis	ft^2	0.5

[1]Board Feet Equivalent (bfe) is the amount of solid sawn lumber required to replace an engineered wood or panel product.

[2]Includes softwood dimension lumber, boards, beams, timbers, and prefabricated wood trusses. Hardwood lumber is not included in this study.

[3]Includes laminated veneer lumber (LVL), parallel strand lumber (PSL), laminated strand lumber (LSL), and oriented strand lumber (OSL).

[4]Includes softwood plywood and OSB.

[5]Includes hardwood plywood, particleboard, medium-density fiberboard, and hardboard.

Appendix B

Detailed Tables, Wood Products Used in New Residential Construction

WOOD PRODUCTS USED IN NEW RESIDENTIAL CONSTRUCTION: **2013 DATA**

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
HOUSING STARTS	6.8	17.1	35.8	37.0	12.7	109.4
TOTAL WOOD USAGE IN NEW RESIDENTIAL CONSTRUCTION						
LUMBER & ENGINEERED WOOD						
Lumber - Softwood						
Framing, BF	61,957	149,056	352,848	352,477	137,336	1,053,675
Boards, BF	859	3,463	11,210	5,468	3,487	24,487
Treated Framing, BF	8,366	15,812	36,244	43,623	18,580	122,625
Treated Boards, BF	1,495	1,079	1,920	3,322	1,428	9,244
Solid Sawn Beams and Posts, BF	1,508	6,487	16,756	6,486	7,206	38,442
Logs, BF	4,951	3,346	2,390	913	1,902	13,503
Subtotal Lumber, BF	79,136	179,243	421,367	412,289	169,940	1,261,976
Engineered Wood						
Glulam, BF	1,024	2,942	14,072	3,853	2,000	23,891
I-joist, BF equivalent	10,025	13,610	49,802	57,766	19,085	150,287
LVL, BF equivalent	2,197	6,814	12,912	10,731	4,613	37,267
Parallam™, BF equivalent	195	401	1,184	188	641	2,610
Timberstrand™, BF equivalent	446	699	2,565	4,250	1,035	8,995
Plywood Rim Board, BF equivalent	1	33	316	11	12	372
OSB Rim Board, BF equivalent	538	308	1,259	344	243	2,691
SubTotal Engineered Wood, BF equivalent	14,426	24,806	82,109	77,143	27,628	226,112
Total Lbr. & Eng. Wood, BF equivalent	93,562	204,050	503,477	489,432	197,568	1,488,088
STRUCTURAL AND NONSTRUCTURAL PANELS						
Structural Panels, SF 3/8" Basis						
Softwood Plywood	43,302	59,466	191,451	159,813	72,427	526,459
Treated Plywood	139	292	1,957	2,625	301	5,314
OSB	29,546	85,283	167,281	247,009	72,988	602,106
Total Structural Panels, SF 3/8" basis	72,988	145,040	360,689	409,447	145,716	1,133,880
Nonstructural Wood Panels, SF 3/8" Basis						
MDF	0	0	0	0	0	0
Particleboard	1,047	3,899	11,872	12,501	3,409	32,727
Hardboard	35	108	2,284	288	573	3,288
Lauan Plywood	41	145	34	62	287	568
Fiberboard	16	2,412	659	99	229	3,414
Total Non-Str'l Wood Panels, SF 3/8" basis	1,139	6,564	14,849	12,949	4,497	39,998
Total Panels, SF 3/8" basis equivalent	74,127	151,603	375,538	422,396	150,213	1,173,878
TOTAL Lumber, Engineered Wood, & Panels BF or Equivalent	130,625	279,851	691,246	700,630	272,675	2,075,027

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
TOTAL WOOD USAGE IN FLOOR SYSTEMS						
LUMBER & ENGINEERED WOOD						
Lumber - Softwood						
Framing, BF	10,045	31,285	68,496	49,367	21,723	180,915
Boards, BF	103	392	1,421	1,724	329	3,970
Treated Framing, BF	na	na	na	na	na	na
Treated Boards, BF	na	na	na	na	na	na
Solid Sawn Beams, BF	337	1,090	7,407	1,871	1,843	12,547
Logs, BF	na	na	na	na	na	na
Subtotal Lumber, BF	10,484	32,767	77,324	52,962	23,894	197,431
Engineered Wood						
Glulam, BF	411	2,107	12,271	3,250	1,618	19,655
I-joist, BF equivalent	9,087	11,985	42,830	54,218	15,940	134,059
LVL, BF equivalent	1,763	5,808	10,484	8,195	3,905	30,155
Parallam™, BF equivalent	130	191	907	156	477	1,861
Timberstrand™, BF equivalent	431	596	1,502	3,852	762	7,142
Plywood Rim Board, BF equivalent	1	33	316	11	12	372
OSB Rim Board, BF equivalent	538	308	1,259	344	243	2,691
SubTotal Engineered Wood, BF equivalent	12,360	21,027	69,567	70,025	22,956	195,935
Total Lbr. & Eng. Wood, BF equivalent	22,845	53,794	146,891	122,987	46,850	393,367
Lbr. & Eng. Lumber equivalent of:						
Concrete, BF equivalent	1,629	4,936	18,757	12,583	8,105	46,008
Steel, BF equivalent	245	727	5,987	315	666	7,940
Total Actual plus Potential Lbr. & Eng. Lumber, BF equivalent	24,718	59,457	171,635	135,885	55,621	447,315
STRUCTURAL AND NONSTRUCTURAL PANELS						
Structural Panels, SF 3/8" Basis						
Softwood Plywood	13,941	28,348	75,870	51,964	28,392	198,515
Treated Plywood	na	na	na	na	na	na
OSB	10,465	26,968	69,827	98,073	20,989	226,322
Total Structural Panels, SF 3/8" basis	24,406	55,315	145,697	150,037	49,381	424,836
Nonstructural Wood Panels, SF 3/8" Basis						
MDF	na	na	na	na	na	na
Particleboard	1,047	3,899	11,872	12,501	3,409	32,727
Hardboard	35	108	2,284	288	573	3,288
Lauan Plywood	41	145	34	62	287	568
Fiberboard	na	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	1,123	4,152	14,190	12,851	4,268	36,584
Total Panels, SF 3/8" basis equivalent	25,529	59,467	159,887	162,887	53,650	461,420
Panel equivalent of:						
Concrete, SF 3/8" basis equivalent	1,798	4,614	24,792	15,293	10,318	56,816
Total Actual plus Potential Panels, SF 3/8" basis equivalent	27,328	64,081	184,679	178,181	63,968	518,236

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
TOTAL WOOD USAGE IN WALL SYSTEMS						
LUMBER & ENGINEERED WOOD						
Lumber - Softwood						
Framing, BF	31,244	73,192	161,726	185,596	73,635	525,393
Boards, BF	na	na	na	na	na	na
Treated Framing, BF	710	2,252	4,116	4,754	1,457	13,288
Treated Boards, BF	na	na	na	na	na	na
Solid Sawn Beams and Posts, BF	297	3,332	4,886	1,714	3,232	13,461
Logs, BF	4,951	3,346	2,390	913	1,902	13,503
Subtotal Lumber, BF	37,201	82,122	173,119	192,976	80,227	565,645
Engineered Wood						
Glulam, BF	509	815	1,765	573	283	3,944
I-joist, BF equivalent	263	84	149	286	142	923
LVL, BF equivalent	376	937	1,345	2,454	635	5,748
Parallam™, BF equivalent	63	202	260	18	120	662
Timberstrand™, BF equivalent	5	51	198	282	221	757
Plywood Rim Board, BF equivalent	na	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na	na
SubTotal Engineered Wood, BF equivalent	1,215	2,088	3,717	3,614	1,401	12,035
Total Lbr. & Eng. Wood, BF equivalent	38,417	84,210	176,835	196,590	81,627	577,680
Lbr. & Eng. Lumber equivalent of:						
Concrete, BF equivalent	4,194	22,644	62,055	19,275	7,665	115,834
Steel - Exterior Walls, BF equivalent	8	203	6,037	720	507	7,475
Steel - Interior Walls, BF equivalent	163	673	1,840	202	57	2,935
Total Actual plus Potential Lbr. & Eng. Lumber, BF equivalent	42,782	107,730	246,767	216,788	89,856	703,923
STRUCTURAL AND NONSTRUCTURAL PANELS (Including Plywood in Box Beams)						
Structural Panels, SF 3/8" Basis						
Softwood Plywood	10,999	5,691	21,935	28,914	15,136	82,674
Treated Plywood	na	na	na	na	na	na
OSB	10,674	32,598	53,796	79,233	30,457	206,759
Total Structural Panels, SF 3/8" basis	21,672	38,289	75,731	108,147	45,593	289,433
Nonstructural Wood Panels, SF 3/8" Basis						
MDF	na	na	na	na	na	na
Particleboard	na	na	na	na	na	na
Hardboard	na	na	na	na	na	na
Lauan Plywood	na	na	na	na	na	na
Fiberboard	16	2,412	659	99	229	3,414
Total Non-Str'l Wood Panels, SF 3/8" basis	16	2,412	659	99	229	3,414
Total Panels, SF 3/8" basis equivalent	21,688	40,701	76,390	108,246	45,822	292,847
Panel equivalent of:						
Concrete, SF 3/8" basis equivalent	3,992	23,118	57,302	26,855	10,871	122,137
Foam & Other, SF 3/8" basis equivalent	1,755	10,531	14,015	1,759	1,043	29,102
Total Actual plus Potential, SF 3/8" basis equiv.	27,435	74,350	147,707	136,859	57,736	444,087

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
TOTAL WOOD USAGE IN ROOF SYSTEMS						
LUMBER & ENGINEERED WOOD						
Lumber - Softwood						
Framing, BF	18,248	41,746	109,546	108,062	36,203	313,805
Boards, BF	235	1,252	3,435	133	370	5,424
Treated Framing, BF	na	na	na	na	na	na
Treated Boards, BF	na	na	na	na	na	na
Solid Sawn Beams, BF	133	927	1,246	815	792	3,913
Logs, BF	na	na	na	na	na	na
Subtotal Lumber, BF	18,616	43,925	114,227	109,010	37,365	323,142
Engineered Wood						
Glulam, BF	105	20	36	30	100	291
I-joist, BF equivalent	675	1,542	6,823	3,262	3,002	15,304
LVL, BF equivalent	57	69	1,084	82	72	1,364
Parallam™, BF equivalent	2	9	17	14	45	87
Timberstrand™, BF equivalent	11	51	865	116	52	1,096
Plywood Rim Board, BF equivalent	na	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na	na
SubTotal Engineered Wood, BF equivalent	851	1,691	8,825	3,504	3,272	18,143
Total Lbr. & Eng. Wood, BF equivalent	19,466	45,616	123,052	112,514	40,637	341,285
Lbr. & Eng. Lumber equivalent of:						
Steel, BF equivalent	4	118	672	72	287	1,154
Total Actual plus Potential Lbr. & Eng. Lumber, BF equivalent	19,471	45,733	123,724	112,586	40,924	342,439
STRUCTURAL AND NONSTRUCTURAL PANELS						
Structural Panels, SF 3/8" Basis						
Softwood Plywood	18,362	25,427	93,646	78,936	28,899	245,271
Treated Plywood	na	na	na	na	na	na
OSB	8,408	25,716	43,658	69,702	21,542	169,025
Total Structural Panels, SF 3/8" basis	26,770	51,144	137,304	148,638	50,441	414,296
Nonstructural Wood Panels, SF 3/8" Basis						
MDF	na	na	na	na	na	na
Particleboard	na	na	na	na	na	na
Hardboard	na	na	na	na	na	na
Lauan Plywood	na	na	na	na	na	na
Fiberboard	na	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	na	na	na	na	na	na
Total Panels, SF 3/8" basis equivalent	26,770	51,144	137,304	148,638	50,441	414,296

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
TOTAL WOOD USAGE IN FOUNDATIONS						
LUMBER & ENGINEERED WOOD						
Lumber - Softwood						
Framing, BF	na	na	na	na	na	na
Boards, BF	na	na	na	na	na	na
Treated Framing, BF	1,133	2,739	6,541	7,631	2,130	20,175
Treated Boards, BF	19	85	170	109	210	594
Posts, BF	22	54	104	114	41	335
Logs, BF	na	na	na	na	na	na
Subtotal Lumber, BF	1,174	2,879	6,815	7,854	2,382	21,104
Engineered Wood						
Glulam, BF	na	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na	na
SubTotal Engineered Wood, BF equivalent	na	na	na	na	na	na
Total Lbr. & Eng. Wood, BF equivalent	1,174	2,879	6,815	7,854	2,382	21,104
STRUCTURAL AND NONSTRUCTURAL PANELS						
Structural Panels, SF 3/8" Basis						
Softwood Plywood	na	na	na	na	na	na
Treated Plywood	139	292	1,957	2,625	301	5,314
OSB	na	na	na	na	na	na
Total Structural Panels, SF 3/8" basis	139	292	1,957	2,625	301	5,314
Nonstructural Wood Panels, SF 3/8" Basis						
MDF	na	na	na	na	na	na
Particleboard	na	na	na	na	na	na
Hardboard	na	na	na	na	na	na
Lauan Plywood	na	na	na	na	na	na
Fiberboard	na	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	na	na	na	na	na	na
Total Panels, SF 3/8" basis equivalent	139	292	1,957	2,625	301	5,314

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
TOTAL WOOD USAGE IN DECKS & PORCHES						
LUMBER & ENGINEERED WOOD						
Lumber - Softwood						
Framing, BF	2,421	2,834	13,080	9,452	5,775	33,562
Boards, BF	521	1,818	6,353	3,612	2,788	15,093
Treated Framing, BF	6,523	10,821	25,586	31,238	14,993	89,162
Treated Boards, BF	1,476	994	1,750	3,212	1,218	8,650
Posts, BF	719	1,084	3,114	1,972	1,297	8,187
Logs, BF	na	na	na	na	na	na
Subtotal Lumber, BF	11,660	17,551	49,883	49,486	26,073	154,653
Engineered Wood						
Glulam, BF	na	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na	na
SubTotal Engineered Wood, BF equivalent	na	na	na	na	na	na
Total Lbr. & Eng. Wood, BF equivalent	11,660	17,551	49,883	49,486	26,073	154,653
STRUCTURAL AND NONSTRUCTURAL PANELS						
Structural Panels, SF 3/8" Basis						
Softwood Plywood	na	na	na	na	na	na
Treated Plywood	na	na	na	na	na	na
OSB	na	na	na	na	na	na
Total Structural Panels, SF 3/8" basis	na	na	na	na	na	na
Nonstructural Wood Panels, SF 3/8" Basis						
MDF	na	na	na	na	na	na
Particleboard	na	na	na	na	na	na
Hardboard	na	na	na	na	na	na
Lauan Plywood	na	na	na	na	na	na
Fiberboard	na	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	na	na	na	na	na	na
Total Panels, SF 3/8" basis equivalent	na	na	na	na	na	na

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN ALL FRAMING (excluding sheathing and underlayment)						
TOTAL LUMBER - FOUNDATIONS, WALLS, FLOORS, ROOFS, BEAMS, HEADERS, RIM BOARDS, DECKS & PORCHES						
Lumber - Regular, BF						
2x2s	53	291	1,403	289	643	2,678
2x3s	131	2,557	5,251	1,606	1,235	10,780
2x4s	32,786	81,073	207,975	197,796	67,301	586,931
2x6s	18,477	40,567	71,564	103,687	44,378	278,672
2x8s	4,774	7,473	14,147	16,882	7,829	51,106
2x10s	3,301	10,354	33,947	24,411	11,042	83,055
2x12s	2,435	6,743	18,567	7,819	4,908	40,472
Boards	521	1,818	6,353	3,612	2,788	15,093
Solid Sawn Beams and Posts	1,485	6,433	16,653	6,372	7,165	38,108
Logs	4,951	3,346	2,390	913	1,902	13,503
Total Lumber - Regular, BF	68,915	160,654	378,249	363,386	149,193	1,120,397
Lumber - Treated, BF						
2x2s	542	730	1,098	542	220	3,131
2x4s	2,626	5,445	11,743	14,149	6,016	39,980
2x6s	2,034	4,176	8,991	10,439	4,184	29,824
2x8s	991	1,772	5,424	7,258	2,853	18,298
2x10s	1,216	2,133	5,494	7,346	3,598	19,786
2x12s	405	711	1,831	2,449	1,199	6,595
Boards	1,495	1,079	1,920	3,322	1,428	9,244
Posts	573	900	1,767	1,555	551	5,346
Total Lumber - Treated, BF	9,883	16,946	38,267	47,059	20,050	132,204
Total Lumber, BF	78,798	177,600	416,516	410,445	169,242	1,252,601
TOTAL LUMBER AND ENGINEERED WOOD EQUIVALENTS USED IN FRAMING (Excluding boards)						
Lumber Equivalent						
Lumber, BF	76,740	170,267	398,097	402,518	161,527	1,209,148
Solid Sawn Beams and Posts, BF	2,058	7,333	18,419	7,927	7,715	43,453
Glulam, BF	1,024	2,942	14,072	3,853	2,000	23,891
I-joist, LF	5,012	6,805	24,901	28,883	9,542	75,143
I-joist, BF equivalent	10,025	13,610	49,802	57,766	19,085	150,287
LVL, Cubic Feet	137	426	807	671	288	2,329
LVL, BF equivalent	2,197	6,814	12,912	10,731	4,613	37,267
Parallam™, Cubic Feet	12	25	74	12	40	163
Parallam™, BF equivalent	195	401	1,184	188	641	2,610
Timberstrand™, Cubic Feet	28	44	160	266	65	562
Timberstrand™, BF equivalent	446	699	2,565	4,250	1,035	8,995
Plywood, BF equivalent	1	33	316	11	12	372
OSB, BF equivalent	538	308	1,259	344	243	2,691
Total Engineered Wood, BF equivalent	14,426	24,806	82,109	77,143	27,628	226,112
Total Lbr. & Eng. Wood, BF equivalent	93,224	202,406	498,625	487,588	196,870	1,478,713

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR SYSTEMS						
LUMBER & ENGINEERED WOOD						
ALL FLOORS						
Total Lbr. & Eng. Wood, BF equivalent	22,845	53,794	146,891	122,987	46,850	393,367
Concrete, BF equivalent	1,629	4,936	18,757	12,583	8,105	46,008
Steel, BF equivalent	245	727	5,987	315	666	7,940
Total Material, BF equivalent	24,718	59,457	171,635	135,885	55,621	447,315
GROUND FLOOR						
Total Lbr. & Eng. Wood, BF equivalent	16,827	36,720	88,241	85,699	29,172	256,660
Concrete, BF equivalent	1,621	4,198	18,297	9,971	5,582	39,668
Steel, BF equivalent	87	59	5,856	124	226	6,352
Total Material, BF equivalent	18,535	40,976	112,395	95,794	34,980	302,680
UPPER FLOORS						
Total Lbr. & Eng. Wood, BF equivalent	6,018	17,074	58,650	37,288	17,678	136,707
Concrete, BF equivalent	8	738	460	2,612	2,522	6,340
Steel, BF equivalent	157	669	130	191	440	1,588
Total Material, BF equivalent	6,183	18,480	59,240	40,091	20,641	144,635
STRUCTURAL AND NONSTRUCTURAL PANELS						
ALL FLOORS						
Total Panels, SF 3/8" basis equivalent	25,529	59,467	159,887	162,887	53,650	461,420
Concrete, SF 3/8" basis equivalent	1,798	4,614	24,792	15,293	10,318	56,816
Total Material, SF 3/8" basis equivalent	27,328	64,081	184,679	178,181	63,968	518,236
GROUND FLOOR						
Total Panels, SF 3/8" basis equivalent	18,976	40,778	100,213	108,015	34,328	302,310
Concrete, SF 3/8" basis equivalent	1,337	3,164	15,539	10,141	6,602	36,783
Total Material, SF 3/8" basis equivalent	20,313	43,942	115,752	118,156	40,930	339,093
UPPER FLOORS						
Total Panels, SF 3/8" basis equivalent	6,553	18,689	59,673	54,873	19,322	159,110
Concrete, SF 3/8" basis equivalent	462	1,450	9,253	5,152	3,716	20,033
Total Material, SF 3/8" basis equivalent	7,015	20,139	68,926	60,025	23,038	179,143

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR FRAMING - ALL FLOORS						
FLOOR JOISTS - ALL FLOORS						
2 x 4s (Trusses), BF	4,341	14,859	16,477	18,171	5,560	59,409
2 x 8s, BF Lumber	538	562	1,085	854	1,018	4,057
2 x 10s, BF Lumber	2,773	9,289	32,790	22,857	10,490	78,200
2 x 12s, BF Lumber	693	3,022	8,953	4,398	1,826	18,891
Subtotal: Lumber in Floor Joists, BF	8,345	27,733	59,305	46,280	18,894	160,556
I-joist, LF	3,835	5,372	19,605	25,789	7,323	61,923
I-joist, BF equivalent	7,669	10,744	39,209	51,577	14,646	123,845
Total Lbr. & Eng. Wood, BF equivalent	16,014	38,476	98,514	97,857	33,540	284,402
FLOOR BEAMS - ALL FLOORS						
Built-up Dimension Lumber, BF	1,691	3,548	8,287	1,978	2,731	18,235
Solid Sawn Beams, BF	337	1,090	7,407	1,871	1,843	12,547
Glulam, BF	410	2,088	12,223	3,246	1,615	19,581
I-joist, LF	690	603	1,749	1,305	629	4,976
I-joist, BF equivalent	1,381	1,206	3,497	2,609	1,259	9,952
LVL, Cubic Feet	110	359	628	372	244	1,714
LVL, BF equivalent	1,762	5,741	10,053	5,959	3,902	27,418
Parallam™, Cubic Feet	8	12	57	10	30	116
Parallam™, BF equivalent	130	191	907	156	477	1,861
Timberstrand™, Cubic Feet	2	9	53	93	0	158
Timberstrand™, BF equivalent	36	150	847	1,487	8	2,527
Total Lbr. & Eng. Wood, BF equivalent	5,747	14,014	43,221	17,307	11,832	92,122
RIM BOARDS FOR I-JOISTS - ALL FLOORS						
Lumber, BF	9	4	904	1,109	98	2,124
Glulam, BF	1	19	48	4	3	75
I-joist, LF	na	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na	na
LVL, Cubic Feet	0	4	27	140	0	171
LVL, BF equivalent	1	67	430	2,235	3	2,736
Timberstrand™, Cubic Feet	25	28	41	148	47	288
Timberstrand™, BF equivalent	394	446	655	2,365	754	4,615
Plywood, 3/8 inch basis	3	65	632	21	23	744
Plywood, BF equivalent	1	33	316	11	12	372
OSB, 3/8 inch basis	1,076	615	2,518	689	485	5,382
OSB, BF equivalent	538	308	1,259	344	243	2,691
Total Lbr. & Eng. Wood, BF equivalent	980	911	3,735	6,099	1,149	12,874

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR FRAMING - ALL FLOORS (CONTINUED)						
TOTAL WOOD USAGE IN FLOOR FRAMING - ALL FLOORS (Excluding boards)						
Lumber Equivalent						
Lumber, BF	10,381	32,374	75,903	51,238	23,566	193,462
Glulam, BF	411	2,107	12,271	3,250	1,618	19,655
I-joist, LF	4,543	5,992	21,415	27,109	7,970	67,029
I-joist, BF equivalent	9,087	11,985	42,830	54,218	15,940	134,059
LVL, Cubic Feet	110	363	655	512	244	1,885
LVL, BF equivalent	1,763	5,808	10,484	8,195	3,905	30,155
Parallam™, Cubic Feet	8	12	57	10	30	116
Parallam™, BF equivalent	130	191	907	156	477	1,861
Timberstrand™, Cubic Feet	27	37	94	241	48	446
Timberstrand™, BF equivalent	431	596	1,502	3,852	762	7,142
Plywood, BF equivalent	1	33	316	11	12	372
OSB, BF equivalent	538	308	1,259	344	243	2,691
Total Engineered Wood, BF equivalent	12,360	21,027	69,567	70,025	22,956	195,935
Total Lbr. & Eng. Wood, BF equivalent	22,741	53,401	145,470	121,263	46,521	389,397

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR FRAMING - GROUND FLOOR						
FLOOR JOISTS - GROUND FLOOR						
2 x 4s (Trusses), BF	3,915	12,053	12,355	14,643	4,740	47,708
2 x 8s, BF Lumber	310	265	466	310	418	1,769
2 x 10s, BF Lumber	1,599	4,372	14,086	8,299	4,303	32,660
2 x 12s, BF Lumber	400	1,422	3,846	1,597	749	8,014
Subtotal: Lumber in Floor Joists, BF	6,225	18,113	30,753	24,849	10,210	90,150
I-joist, LF	2,744	3,997	12,308	19,388	5,320	43,758
I-joist, BF equivalent	5,487	7,994	24,616	38,777	10,641	87,515
Total Lbr. & Eng. Wood, BF equivalent	11,712	26,107	55,369	63,626	20,851	177,666
FLOOR BEAMS - GROUND FLOOR						
Built-up Dimension Lumber, BF	1,046	3,477	7,336	1,869	1,392	15,119
Solid Sawn Beams, BF	337	977	3,901	0	1,462	6,676
Glulam, BF	0	1,279	6,396	3,246	639	11,560
I-joist, LF	690	0	1,689	1,305	413	4,097
I-joist, BF equivalent	1,381	0	3,377	2,609	827	8,194
LVL, Cubic Feet	78	274	370	364	175	1,261
LVL, BF equivalent	1,252	4,382	5,916	5,819	2,804	20,173
Parallam™, Cubic Feet	3	9	38	10	14	73
Parallam™, BF equivalent	42	137	602	156	230	1,167
Timberstrand™, Cubic Feet	0	6	53	71	0	130
Timberstrand™, BF equivalent	0	92	847	1,132	3	2,074
Total Lbr. & Eng. Wood, BF equivalent	4,057	10,344	28,375	14,831	7,356	64,963
RIM BOARDS FOR I-JOISTS - GROUND FLOOR						
Lumber, BF	9	0	873	1,109	65	2,054
Glulam, BF	1	0	46	4	2	53
I-joist, LF	18	0	60	16	12	105
I-joist, BF equivalent	36	0	119	31	23	210
LVL, Cubic Feet	0	0	26	140	0	166
LVL, BF equivalent	1	0	415	2,235	2	2,654
Timberstrand™, Cubic Feet	25	0	40	148	31	243
Timberstrand™, BF equivalent	394	0	633	2,365	495	3,888
Plywood, 3/8 inch basis	3	0	610	21	15	649
Plywood, BF equivalent	1	0	305	11	8	325
OSB, 3/8 inch basis	1,076	0	2,431	689	319	4,514
OSB, BF equivalent	538	0	1,216	344	159	2,257
Total Lbr. & Eng. Wood, BF equivalent	980	0	3,607	6,099	755	11,440

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR FRAMING - GROUND FLOOR (CONTINUED)						
TOTAL WOOD USAGE IN FLOOR FRAMING - GROUND FLOOR (Excluding boards)						
Lumber Equivalent						
Lumber, BF	7,616	22,566	42,862	27,827	13,128	114,000
Glulam, BF	1	1,279	6,443	3,250	641	11,613
I-joist, LF	3,452	3,997	14,056	20,709	5,746	47,960
I-joist, BF equivalent	6,905	7,994	28,112	41,417	11,491	95,920
LVL, Cubic Feet	78	274	396	503	175	1,427
LVL, BF equivalent	1,253	4,382	6,332	8,054	2,807	22,827
Parallam™, Cubic Feet	3	9	38	10	14	73
Parallam™, BF equivalent	42	137	602	156	230	1,167
Timberstrand™, Cubic Feet	25	6	92	219	31	373
Timberstrand™, BF equivalent	394	92	1,479	3,497	498	5,961
Plywood, BF equivalent	1	0	305	11	8	325
OSB, BF equivalent	538	0	1,216	344	159	2,257
Total Engineered Wood, BF equivalent	9,134	13,885	44,488	56,729	15,833	140,069
Total Lbr. & Eng. Wood, BF equivalent	16,750	36,451	87,350	84,556	28,962	254,069

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR FRAMING - UPPER FLOORS						
FLOOR JOISTS - UPPER FLOORS						
2 x 4s (Trusses), BF	425	2,806	4,122	3,528	820	11,701
2 x 8s, BF Lumber	228	298	619	544	600	2,288
2 x 10s, BF Lumber	1,173	4,917	18,704	14,558	6,187	45,539
2 x 12s, BF Lumber	293	1,599	5,107	2,801	1,077	10,877
Subtotal: Lumber in Floor Joists, BF	2,119	9,620	28,552	21,431	8,684	70,406
I-joist, LF	1,091	1,375	7,296	6,400	2,003	18,165
I-joist, BF equivalent	2,182	2,749	14,593	12,801	4,005	36,330
Total Lbr. & Eng. Wood, BF equivalent	4,302	12,369	43,145	34,231	12,689	106,736
FLOOR BEAMS - UPPER FLOORS						
Built-up Dimension Lumber, BF	645	71	952	110	1,339	3,116
Solid Sawn Beams, BF	0	113	3,505	1,871	381	5,870
Glulam, BF	410	808	5,826	0	976	8,020
I-joist, LF	0	603	60	0	216	879
I-joist, BF equivalent	0	1,206	120	0	432	1,758
LVL, Cubic Feet	32	85	259	9	69	453
LVL, BF equivalent	511	1,360	4,137	140	1,097	7,245
Parallam™, Cubic Feet	5	3	19	0	15	43
Parallam™, BF equivalent	88	54	305	0	247	694
Timberstrand™, Cubic Feet	2	4	0	22	0	28
Timberstrand™, BF equivalent	36	58	0	355	5	454
Total Lbr. & Eng. Wood, BF equivalent	1,690	3,670	14,846	2,476	4,476	27,158
RIM BOARDS FOR I-JOISTS - UPPER FLOORS						
Lumber, BF	0	4	31	0	34	69
Glulam, BF	0	19	2	0	1	22
I-joist, LF	0	17	2	0	6	26
I-joist, BF equivalent	0	35	4	0	12	51
LVL, Cubic Feet	0	4	1	0	0	5
LVL, BF equivalent	0	67	15	0	1	83
Timberstrand™, Cubic Feet	0	28	1	0	16	45
Timberstrand™, BF equivalent	0	446	23	0	259	727
Plywood, 3/8 inch basis	0	65	22	0	8	95
Plywood, BF equivalent	0	33	11	0	4	47
OSB, 3/8 inch basis	0	615	87	0	166	868
OSB, BF equivalent	0	308	43	0	83	434
Total Lbr. & Eng. Wood, BF equivalent	0	911	128	0	394	1,433

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR FRAMING - UPPER FLOORS (CONTINUED)						
TOTAL WOOD USAGE IN FLOOR FRAMING - UPPER FLOORS (Excluding boards)						
Lumber Equivalent						
Lumber, BF	2,765	9,808	33,040	23,411	10,437	79,462
Glulam, BF	410	827	5,828	0	977	8,042
I-joist, LF	1,091	1,995	7,359	6,400	2,225	19,070
I-joist, BF equivalent	2,182	3,990	14,717	12,801	4,449	38,139
LVL, Cubic Feet	32	89	259	9	69	458
LVL, BF equivalent	511	1,426	4,152	140	1,098	7,328
Parallam™, Cubic Feet	5	3	19	0	15	43
Parallam™, BF equivalent	88	54	305	0	247	694
Timberstrand™, Cubic Feet	2	31	1	22	16	74
Timberstrand™, BF equivalent	36	504	23	355	263	1,181
Plywood, BF equivalent	0	33	11	0	4	47
OSB, BF equivalent	0	308	43	0	83	434
Total Engineered Wood, BF equivalent	3,227	7,142	25,079	13,296	7,122	55,866
Total Lbr. & Eng. Wood, BF equivalent	5,991	16,950	58,119	36,707	17,560	135,328

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN WALL FRAMING						
WALL FRAMING						
2 x 4s Walls, BF	345	3,832	6,516	1,055	401	12,149
2 x 6s Walls, BF	15,860	33,968	54,035	90,771	40,684	235,318
Interior 2 x 3s Walls, BF	131	2,557	5,251	1,606	1,235	10,780
Interior 2 x 4s Walls, BF	12,102	25,820	73,984	73,717	25,395	211,017
Interior 2 x 6s Walls, BF	704	2,516	9,745	5,047	730	18,741
Treated plates on slabs	710	2,252	4,116	4,754	1,457	13,288
Blocking for drywall, 2 x 4, BF	749	1,657	4,897	4,607	1,528	13,438
Blocking for drywall, 2 x 6, BF	679	1,503	4,442	4,179	1,386	12,191
Subtotal: Dimension Lumber in Walls	31,281	74,106	162,986	185,735	72,816	526,922
Timberstrand™, BF equivalent	0	0	0	0	0	0
I-joist, BF equivalent	na	na	na	na	na	na
Solid Sawn Beams and Posts, BF	47	2,038	1,827	322	2,609	6,843
Logs, BF	4,951	3,346	2,390	913	1,902	13,503
Total Lbr. & Eng. Wood, BF equivalent	36,279	79,490	167,203	186,969	77,327	547,267
WINDOW AND DOOR HEADERS						
Lumber,BF(Blt-up,Open Web & Flitch Pl'te)	630	1,163	2,340	4,209	2,021	10,363
Solid Sawn Beams, BF	179	761	2,631	856	208	4,634
Glulam, BF	421	720	1,696	467	264	3,568
I-joist, LF	131	40	49	42	70	331
I-joist, BF equivalent	262	81	98	83	139	663
LVL, Cubic Feet	14	50	67	69	31	231
LVL, BF equivalent	229	800	1,074	1,104	494	3,701
Parallam™, Cubic Feet	3	9	7	1	0	19
Parallam™, BF equivalent	47	142	104	12	6	312
Timberstrand™, Cubic Feet	0	2	9	4	14	28
Timberstrand™, BF equivalent	3	35	141	58	216	454
Glued & Nailed Box Beams, BF Lumber	1	6	85	53	0	145
Total Lbr. & Eng. Wood, BF equivalent	1,772	3,707	8,169	6,842	3,348	23,839
Plywood from Glued & Nailed Box Beams, SF 3/8" basis equiv.	1	7	111	69	0	189
GARAGE DOOR HEADERS						
Lumber, BF (Blt-up,Open Web & Flitch Pl'te)	42	169	424	334	254	1,223
Solid Sawn Beams, BF	71	533	427	536	416	1,984
Glulam, BF	88	94	69	107	19	376
I-joist, LF	0	2	25	101	2	130
I-joist, BF equivalent	1	3	51	203	3	261
LVL, Cubic Feet	9	9	17	84	9	128
LVL, BF equivalent	147	137	271	1,350	141	2,047
Parallam™, Cubic Feet	1	4	10	0	7	22
Parallam™, BF equivalent	16	60	156	6	114	351
Timberstrand™, Cubic Feet	0	1	4	14	0	19
Timberstrand™, BF equivalent	2	16	57	224	5	304
Glued & Nailed Box Beams, BF Lumber	0	1	8	19	1	29
Total Lbr. & Eng. Wood, BF equivalent	366	1,013	1,463	2,779	952	6,573
Plywood from Glued & Nailed Box Beams, SF 3/8" basis equiv.	1	4	33	75	3	116

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN WALL FRAMING (CONTINUED)						
TOTAL WOOD USAGE IN WALL FRAMING (Excluding boards)						
Lumber Equivalent						
Lumber, BF	37,201	82,122	173,119	192,976	80,227	565,645
Glulam, BF	509	815	1,765	573	283	3,944
I-joist, LF	131	42	74	143	71	462
I-joist, BF equivalent	263	84	149	286	142	923
LVL, Cubic Feet	24	59	84	153	40	359
LVL, BF equivalent	376	937	1,345	2,454	635	5,748
Parallam™, Cubic Feet	4	13	16	1	7	41
Parallam™, BF equivalent	63	202	260	18	120	662
Timberstrand™, Cubic Feet	0	3	12	18	14	47
Timberstrand™, BF equivalent	5	51	198	282	221	757
Total Engineered Wood, BF equivalent	1,215	2,088	3,717	3,614	1,401	12,035
Total Lbr. & Eng. Wood, BF equivalent	38,417	84,210	176,835	196,590	81,627	577,680

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN ROOF FRAMING						
TRUSSES, RAFTERS AND CEILING JOISTS						
2 x 4s (Trusses), BF	12,076	28,107	73,433	81,164	26,045	220,825
2 x 6s (Rafters), BF	1,207	2,434	2,641	3,545	1,257	11,084
2 x 8s (Rafters), BF	2,287	4,616	5,004	6,718	2,381	21,007
2 x 10s (Rafters), BF	528	1,064	1,157	1,554	552	4,855
Turn Gables, 2 x 4s, BF	973	2,842	4,458	6,602	3,020	17,896
Dormers, 2 x 4s, BF	1,177	2,682	22,853	8,479	2,948	38,139
Subtotal: Framing Lumber in Roofs	18,248	41,746	109,546	108,062	36,203	313,805
I-joist, LF	337	759	3,350	1,628	1,500	7,574
I-joist, BF equivalent	674	1,519	6,699	3,256	2,999	15,147
Total Lbr. & Eng. Wood, BF equivalent	18,922	43,265	116,245	111,318	39,202	328,952
ROOF BEAMS (incl. Beam and Purlin Construction)						
Built-up Dimension Lumber, BF	82	389	738	72	167	1,448
Solid Sawn Beams, BF	133	927	1,246	815	792	3,913
Glulam, BF	105	20	36	30	100	291
I-joist, LF	1	11	62	3	2	79
I-joist, BF equivalent	1	23	124	6	3	157
LVL, Cubic Feet	4	4	68	5	5	85
LVL, BF equivalent	57	69	1,084	82	72	1,364
Parallam™, Cubic Feet	0	1	1	1	3	5
Parallam™, BF equivalent	2	9	17	14	45	87
Timberstrand™, Cubic Feet	1	3	54	7	3	68
Timberstrand™, BF equivalent	11	51	865	116	52	1,096
Total Lbr. & Eng. Wood, BF equivalent	391	1,488	4,110	1,135	1,232	8,357
TOTAL WOOD USAGE IN ROOF FRAMING (Excluding boards)						
Lumber Equivalent						
Lumber, BF	18,463	43,062	111,530	108,949	37,162	319,166
Glulam, BF	105	20	36	30	100	291
I-joist, LF	338	771	3,412	1,631	1,501	7,652
I-joist, BF equivalent	675	1,542	6,823	3,262	3,002	15,304
LVL, Cubic Feet	4	4	68	5	5	85
LVL, BF equivalent	57	69	1,084	82	72	1,364
Parallam™, Cubic Feet	0	1	1	1	3	5
Parallam™, BF equivalent	2	9	17	14	45	87
Timberstrand™, Cubic Feet	1	3	54	7	3	68
Timberstrand™, BF equivalent	11	51	865	116	52	1,096
Total Engineered Wood, BF equivalent	851	1,691	8,825	3,504	3,272	18,143
Total Lbr. & Eng. Wood, BF equivalent	19,314	44,753	120,355	112,453	40,434	337,309

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN BEAMS & HEADERS						
BEAMS & HEADERS - BF OR EQUIVALENT						
Lumber Equivalent						
Lumber, BF	2,446	5,276	11,882	6,665	5,174	31,442
Solid Sawn Beams, BF	720	3,310	11,711	4,079	3,259	23,078
Glulam, BF	1,023	2,923	14,024	3,849	1,998	23,816
I-joist, LF	822	656	1,885	1,451	702	5,516
I-joist, BF equivalent	1,645	1,312	3,770	2,902	1,404	11,033
LVL, Cubic Feet	137	422	780	531	288	2,158
LVL, BF equivalent	2,196	6,748	12,482	8,496	4,609	34,530
Parallam™, Cubic Feet	12	25	74	12	40	163
Parallam™, BF equivalent	195	401	1,184	188	641	2,610
Timberstrand™, Cubic Feet	3	16	119	118	18	274
Timberstrand™, BF equivalent	52	253	1,910	1,885	281	4,381
Total Engineered Wood, BF equivalent	5,111	11,637	33,369	17,320	8,933	76,370
Total Lbr. & Eng. Wood, BF equivalent	8,277	20,223	56,963	28,063	17,365	130,890
Plywood, SF 3/8" basis equivalent	2	12	143	144	3	304

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN ALL SHEATHING & UNDERLAYMENT						
ALL SHEATHING & UNDERLAYMENT						
Square Feet						
None	3,798	22,804	53,834	28,240	12,577	121,253
Lauan Plywood - 1/4"	61	217	51	93	430	853
Plywood - 1/4"	1,432	4	1,041	4,593	3	7,073
Plywood - 3/8"	2,290	2,729	9,703	3,487	3,419	21,627
Plywood - 1/2"	10,251	12,684	38,686	31,555	23,513	116,689
Plywood - 5/8"	12,111	14,482	38,323	47,492	14,963	127,370
Plywood - 3/4"	2,963	5,148	31,047	13,201	5,817	58,177
Plywood - 1 1/8"	92	1,792	1,121	1,831	360	5,196
OSB - 1/4"	54	244	4,094	339	429	5,159
OSB - 3/8"	1,747	8,516	13,525	33,796	9,130	66,714
OSB - 7/16" or 1/2"	10,973	29,313	39,723	68,784	25,413	174,206
OSB - 5/8"	2,236	11,683	25,862	33,184	7,524	80,489
OSB - 3/4"	4,409	8,028	23,453	28,510	7,468	71,868
OSB - 7/8"	57	168	1,443	1,369	228	3,265
OSB - 1"	76	224	692	685	293	1,970
OSB - 1 1/8"	84	334	947	1,309	300	2,973
Particleboard - 1/4"	0	0	0	0	0	0
Particleboard - 3/8"	115	598	5,308	907	833	7,762
Particleboard - 1/2"	0	0	0	0	0	0
Particleboard - 5/8"	87	307	610	6,470	239	7,712
Particleboard - 3/4"	394	1,395	2,774	405	1,088	6,056
Hardboard - 1/4"	53	163	3,426	432	859	4,932
Cementitious Board	1	4	349	75	3	431
Boards - 1" - no spacing	317	1,018	1,717	1,268	398	4,719
Boards - 1" - spaced	9	146	436	14	26	631
Boards - 2"	8	277	1,461	291	144	2,180
Fiberboard - 1/2"	12	1,809	494	74	172	2,561
Gypsum	1,202	10	401	11	63	1,687
Foil Faced 3-ply Kraft Paper - 1/8"	0	20	1,756	11	63	1,850
Foam	77	3,424	6,328	1,037	350	11,216
Fiberbond	151	622	51	185	347	1,355
Other	90	4,593	2,705	1,335	1,115	9,838
TOTAL	55,150	132,755	311,361	310,981	117,567	927,815
ALL SHEATHING & UNDERLAYMENT VOLUMES						
Plywood, SF 3/8" Basis	43,301	59,454	191,308	159,669	72,424	526,155
Lauan Plywood, SF 3/8" Basis	41	145	34	62	287	568
OSB, SF 3/8" Basis	29,546	85,283	167,281	247,009	72,988	602,106
Particleboard, SF 3/8" Basis	1,047	3,899	11,872	12,501	3,409	32,727
Hardboard, SF 3/8" Basis	35	108	2,284	288	573	3,288
Foam, SF 3/8" str'l panel basis equivalent	14,512	21,943	43,790	19,282	8,255	107,781
Other, SF 3/8" str'l panel basis equivalent	1,885	9,647	7,853	2,847	2,780	25,012
Total Panel, 3/8" str'l pn'l basis equiv.	90,367	180,477	424,422	441,657	160,715	1,297,639
Boards, BF	338	1,645	4,857	1,857	699	9,394

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR SHEATHING						
FLOOR SHEATHING						
SF of 1st & 2nd Story Floor Area						
None - Slab or Stress Skin Panel	749	1,493	8,814	6,438	3,877	21,372
Plywood - 1/2"	341	968	1,862	1,679	1,094	5,943
Plywood - 5/8"	3,069	6,106	7,602	6,624	7,976	31,377
Plywood - 3/4"	2,549	3,653	24,822	12,235	4,394	47,653
Plywood - 1 1/8"	92	1,792	1,121	1,831	360	5,196
OSB - 7/16" OR 1/2"	39	113	735	3,355	182	4,425
OSB - 5/8"	714	5,013	7,344	8,274	1,563	22,906
OSB - 3/4"	4,159	7,508	21,854	28,471	7,352	69,344
OSB - 7/8"	57	168	1,443	1,369	228	3,265
OSB - 1"	76	224	692	685	293	1,970
OSB - 1 1/8"	84	334	947	1,309	300	2,973
Boards - 1"	89	332	1,266	1,236	276	3,198
Boards - 2"	7	30	78	244	27	386
Other	42	1,225	787	1,048	938	4,040
TOTAL	12,067	28,960	79,366	74,796	28,860	224,049
FLOOR SHEATHING VOLUMES						
Plywood, SF 3/8" basis	10,944	24,150	68,160	43,241	24,620	171,113
OSB, SF 3/8" basis	10,146	25,514	64,980	84,153	19,765	204,558
Other, SF 3/8" str'l panel basis equivalent	80	2,352	1,531	2,027	1,754	7,744
Total Panel, 3/8" str'l pn'l basis equiv.	21,170	52,015	134,671	129,421	46,139	383,415
Boards, BF	103	392	1,421	1,724	329	3,970

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN WALL SHEATHING						
WALL SHEATHING						
SF of Exterior Wall						
None	3,044	18,647	44,556	21,690	8,594	96,530
Plywood - 3/8"	671	1,565	3,463	2,167	644	8,510
Plywood - 1/2"	6,560	2,752	10,685	9,013	9,496	38,505
Plywood - 5/8"	599	136	403	8,598	341	10,076
Plywood - 3/4"	291	109	1,706	128	629	2,863
OSB - 3/8"	1,609	7,736	12,424	31,690	8,590	62,050
OSB - 7/16" OR 1/2"	6,795	18,314	27,085	35,554	16,153	103,901
OSB - 5/8"	2	242	2,282	70	122	2,718
OSB - 3/4"	0	20	728	11	63	822
Fiberboard - 1/2"	12	1,809	494	74	172	2,561
Gypsum	1,202	10	401	11	63	1,687
Foil Faced 3-ply Kraft Paper - 1/8"	0	20	1,756	11	63	1,850
Foam	77	3,424	6,328	1,037	350	11,216
Other	47	3,231	1,918	288	176	5,660
TOTAL	20,909	58,015	114,228	110,340	45,458	348,950
Foam as a Second Layer of Sheathing, SF 3/8" basis	14,385	16,068	25,840	16,676	7,788	80,756
WALL SHEATHING VOLUMES						
Plywood, SF 3/8" basis	10,997	5,679	21,792	28,770	15,133	82,370
OSB, SF 3/8" basis	10,674	32,598	53,796	79,233	30,457	206,759
Foam, SF 3/8" str'l panel basis equivalent	14,512	21,943	43,790	19,282	8,255	107,781
Other, SF 3/8" str'l panel basis equivalent	1,654	6,286	5,877	475	600	14,891
Total Panel, 3/8" str'l pn'l basis equiv.	37,836	66,506	125,254	127,759	54,445	411,801
Boards, BF	0	0	0	0	0	0

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN ROOF SHEATHING						
ROOF SHEATHING						
SF of Roof Area						
None	5	2,664	463	113	106	3,351
Plywood - 3/8"	49	233	5,793	289	2,017	8,381
Plywood - 1/2"	3,242	8,289	25,271	19,313	12,319	68,433
Plywood - 5/8"	8,319	7,084	27,132	31,303	5,839	79,677
Plywood - 3/4"	63	1,169	4,469	362	363	6,425
OSB - 7/16" or 1/2"	4,138	10,886	11,903	29,270	9,078	65,275
OSB - 5/8"	1,434	6,122	15,626	18,371	5,600	47,152
OSB - 3/4"	250	500	872	29	52	1,702
Boards - 1" - no spacing	228	686	452	32	122	1,521
Boards - 1" - spaced	9	146	436	14	26	631
Boards - 2"	1	246	1,383	47	117	1,794
Other	0	137	0	0	0	137
TOTAL	17,739	38,160	93,800	99,143	35,639	284,480
ROOF SHEATHING VOLUMES						
Plywood, SF 3/8" Basis	18,362	25,427	93,646	78,936	28,899	245,271
OSB, SF 3/8" Basis	8,408	25,716	43,658	69,702	21,542	169,025
Other, SF 3/8" str'l panel basis equivalent	0	205	0	0	0	205
Total Panel, 3/8" str'l pn'l basis equiv.	26,770	51,348	137,304	148,638	50,441	414,501
Boards, BF	235	1,252	3,435	133	370	5,424

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN UNDERLAYMENT						
UNDERLAYMENT MATERIAL						
SF of Floor Area						
Lauan Plywood - 1/4"	61	217	51	93	430	853
OSB - 1/4"	54	244	4,094	339	429	5,159
OSB - 3/8"	138	780	1,101	2,105	540	4,665
OSB - 7/16" OR 1/2"	0	0	0	605	0	605
OSB - 5/8"	87	307	610	6,470	239	7,712
OSB - 3/4"	0	0	0	0	0	0
Plywood - 1/4"	1,432	4	1,041	4,593	3	7,073
Plywood - 3/8"	1,570	931	447	1,030	758	4,737
Plywood - 1/2"	108	676	869	1,550	604	3,807
Plywood - 5/8"	124	1,157	3,186	967	807	6,241
Plywood - 3/4"	61	217	51	476	430	1,236
Particleboard - 1/4"	0	0	0	0	0	0
Particleboard - 3/8"	115	598	5,308	907	833	7,762
Particleboard - 1/2"	0	0	0	0	0	0
Particleboard - 5/8"	87	307	610	6,470	239	7,712
Particleboard - 3/4"	394	1,395	2,774	405	1,088	6,056
Hardboard - 1/4"	53	163	3,426	432	859	4,932
Cementitious Board	1	4	349	75	3	431
Fiberbond	151	622	51	185	347	1,355
TOTAL	4,435	7,620	23,966	26,702	7,611	70,335
UNDERLAYMENT VOLUMES						
Plywood, SF 3/8" Basis	2,998	4,198	7,711	8,723	3,772	27,402
Lauan Plywood, SF 3/8" Basis	41	145	34	62	287	568
OSB, SF 3/8" Basis	318	1,454	4,847	13,921	1,224	21,764
Particleboard, SF 3/8" Basis	1,047	3,899	11,872	12,501	3,409	32,727
Hardboard, SF 3/8" Basis	35	108	2,284	288	573	3,288
Other	152	805	446	345	426	2,173
Total Panel, 3/8" str'l pn'l basis equiv.	4,592	10,608	27,193	35,839	9,691	87,922

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FOUNDATIONS						
WOOD FOUNDATION SYSTEMS						
Lumber - Treated, 2 x 6, BF	33	69	465	624	72	1,263
Lumber - Treated, 2 x 8, BF	99	208	1,395	1,871	215	3,788
Plywood - Treated, SF 3/8" Basis	139	292	1,957	2,625	301	5,314
MASONRY FOUNDATIONS						
Sill Plates - 2 x 6 Treated, BF	1,001	2,462	4,681	5,137	1,844	15,125
Posts - Treated, BF	22	54	104	114	41	335
Furring for Precast - Treated, BF	19	85	170	109	210	594
TOTAL - Treated Lumber, BF	1,174	2,879	6,815	7,854	2,382	21,104
TOTAL - Treated Plywood, SF 3/8" Basis	139	292	1,957	2,625	301	5,314

	SINGLE-FAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN DECKS & PORCHES						
DECKS						
Lumber - Regular, BF						
2x2s	25	145	518	139	416	1,244
2x4s	17	97	345	92	277	827
2x6s	13	73	259	69	208	622
Boards	280	1,239	3,215	1,197	1,981	7,912
Posts	17	97	345	92	277	827
Lumber - Treated, BF						
2x2s	343	507	961	466	178	2,456
2x4s	1,785	3,045	7,536	9,345	4,532	26,243
2x6s	901	1,533	3,777	4,641	2,248	13,100
2x8s	892	1,564	4,029	5,387	2,638	14,510
2x10s	1,216	2,133	5,494	7,346	3,598	19,786
2x12s	405	711	1,831	2,449	1,199	6,595
Boards	955	953	1,647	2,715	766	7,036
Posts	419	698	1,572	1,391	482	4,562
Subtotal - Lumber, BF	351	1,650	4,681	1,590	3,158	11,431
Subtotal - Treated Lumber, BF	6,917	11,144	26,847	33,740	15,640	94,288
Total, BF	7,269	12,794	31,528	35,331	18,799	105,720
Deck Surfaces						
Lumber - Regular, BF	280	1,239	3,215	1,197	1,981	7,912
Lumber - Treated, BF	955	953	1,647	2,715	766	7,036
PVC / Vinyl / Fiberglass, BF	61	111	215	676	653	1,717
Wood / Plastic composite, BF	33	30	931	3,445	534	4,973
Total Deck Surface Material, BF	1,330	2,332	6,008	8,033	3,934	21,638
PORCHES						
Lumber - Regular, BF						
2x2s (Railings)	28	145	885	150	227	1,435
2x4s (Porch Roofs, Breezeways, & Railings)	1,006	1,170	4,919	3,838	2,125	13,057
2x6s (Railings)	14	73	442	75	114	717
2x8s (Porch Floors & Breezeways)	1,319	1,132	5,713	5,089	2,409	15,661
Boards	241	580	3,138	2,415	807	7,181
Posts	703	988	2,769	1,879	1,021	7,360
Lumber - Treated, BF						
2x2s (Railings)	198	222	137	75	42	675
2x4s (Porch Roofs, Breezeways, & Railings)	132	148	91	50	28	449
2x6s (Railings)	99	111	68	38	21	337
Boards	521	41	103	497	452	1,614
Posts	132	148	91	50	28	449
Subtotal - Lumber, BF	3,310	4,087	17,866	13,445	6,703	45,410
Subtotal - Treated Lumber, BF	1,082	671	490	710	571	3,523
Total, BF	4,392	4,757	18,355	14,155	7,274	48,934
Porch Surfaces						
Lumber - Regular, BF	241	580	3,138	2,415	807	7,181
Lumber - Treated, BF	521	41	103	497	452	1,614
Plastic and Composites, BF	112	27	103	552	370	1,165
Concrete / Brick / Stone / Tiles, BF	104	311	1,098	406	668	2,586
Total Porch Surface Material, BF	978	960	4,442	3,870	2,297	12,546

	MULTIFAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
HOUSING STARTS	3.4	20.7	25.3	14.8	14.4	78.5
TOTAL WOOD USAGE IN NEW RESIDENTIAL CONSTRUCTION						
LUMBER & ENGINEERED WOOD						
Lumber - Softwood						
Framing, BF	18,147	110,173	135,762	84,521	75,040	423,643
Boards, BF	200	1,228	1,502	878	736	4,544
Treated Framing, BF	1,875	10,661	13,008	8,046	7,815	41,405
Treated Boards, BF	431	2,588	3,166	1,850	1,336	9,371
Solid Sawn Beams and Posts, BF	825	4,933	6,127	3,832	3,588	19,304
Logs, BF	1,137	6,920	8,508	4,971	2,276	23,811
Subtotal Lumber, BF	22,616	136,504	168,074	104,096	90,790	522,079
Engineered Wood						
Glulam, BF	995	5,857	7,161	4,180	4,166	22,360
I-joist, BF equivalent	2,158	13,014	16,129	9,374	9,116	49,791
LVL, BF equivalent	2,718	7,568	7,740	11,565	4,790	34,382
Parallam™, BF equivalent	95	573	700	407	442	2,217
Timberstrand™, BF equivalent	26	265	2,289	663	671	3,914
Plywood Rim Board, BF equivalent	1	0	0	0	0	1
OSB Rim Board, BF equivalent	0	15	0	0	9	24
SubTotal Engineered Wood, BF equivalent	5,994	27,292	34,018	26,190	19,194	112,688
Total Lbr. & Eng. Wood, BF equivalent	28,610	163,795	202,093	130,286	109,984	634,767
STRUCTURAL AND NONSTRUCTURAL PANELS						
Structural Panels, SF 3/8" Basis						
Softwood Plywood	5,033	30,357	37,878	22,128	21,514	116,911
Treated Plywood	378	2,269	2,776	1,622	1,577	8,621
OSB	7,260	43,690	53,469	31,830	30,295	166,543
Total Structural Panels, SF 3/8" basis	12,671	76,316	94,123	55,581	53,386	292,076
Nonstructural Wood Panels, SF 3/8" Basis						
MDF	0	0	0	0	0	0
Particleboard	471	3,987	4,632	6,541	2,912	18,543
Hardboard	93	560	685	400	389	2,129
Lauan Plywood	21	175	457	267	260	1,179
Fiberboard	13	77	94	55	54	293
Total Non-Str'l Wood Panels, SF 3/8" basis	598	4,799	5,869	7,264	3,614	22,144
Total Panels, SF 3/8" basis equivalent	13,269	81,115	99,991	62,844	57,000	314,219
TOTAL Lumber, Engineered Wood, & Panels BF or Equivalent	35,244	204,353	252,088	161,708	138,484	791,877

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
TOTAL WOOD USAGE IN FLOOR SYSTEMS						
LUMBER & ENGINEERED WOOD						
Lumber - Softwood						
Framing, BF	3,788	22,696	28,348	21,769	15,794	92,394
Boards, BF	25	151	185	108	105	574
Treated Framing, BF	na	na	na	na	na	na
Treated Boards, BF	na	na	na	na	na	na
Solid Sawn Beams, BF	600	3,601	4,405	2,574	2,502	13,682
Logs, BF	na	na	na	na	na	na
Subtotal Lumber, BF	4,413	26,448	32,938	24,450	18,401	106,650
Engineered Wood						
Glulam, BF	947	5,679	6,948	4,059	3,947	21,579
I-joist, BF equivalent	2,103	12,660	15,630	9,131	8,879	48,403
LVL, BF equivalent	2,608	6,997	7,094	11,184	4,411	32,295
Parallam™, BF equivalent	86	517	633	370	359	1,965
Timberstrand™, BF equivalent	18	181	1,622	584	586	2,991
Plywood Rim Board, BF equivalent	1	0	0	0	0	1
OSB Rim Board, BF equivalent	0	15	0	0	9	24
SubTotal Engineered Wood, BF equivalent	5,763	26,050	31,926	25,328	18,191	107,257
Total Lbr. & Eng. Wood, BF equivalent	10,176	52,498	64,864	49,778	36,592	213,907
Lbr. & Eng. Lumber equivalent of:						
Concrete, BF equivalent	3,549	16,156	22,425	17,535	12,182	71,847
Steel, BF equivalent	198	2,140	3,797	2,901	1,051	10,086
Total Actual plus Potential Lbr. & Eng. Lumber, BF equivalent	13,923	70,794	91,085	70,214	49,825	295,841
STRUCTURAL AND NONSTRUCTURAL PANELS						
Structural Panels, SF 3/8" Basis						
Softwood Plywood	2,239	13,582	17,350	10,136	9,853	53,161
Treated Plywood	na	na	na	na	na	na
OSB	4,195	25,350	30,974	18,689	17,638	96,846
Total Structural Panels, SF 3/8" basis	6,434	38,932	48,324	28,825	27,492	150,006
Nonstructural Wood Panels, SF 3/8" Basis						
MDF	na	na	na	na	na	na
Particleboard	471	3,987	4,632	6,541	2,912	18,543
Hardboard	93	560	685	400	389	2,129
Lauan Plywood	21	175	457	267	260	1,179
Fiberboard	na	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	585	4,722	5,774	7,208	3,560	21,850
Total Panels, SF 3/8" basis equivalent	7,019	43,655	54,098	36,033	31,052	171,857
Panel equivalent of:						
Concrete, SF 3/8" basis equivalent	2,207	14,748	17,937	11,235	10,668	56,795
Total Actual plus Potential Panels, SF 3/8" basis equivalent	9,226	58,403	72,035	47,268	41,720	228,652

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
TOTAL WOOD USAGE IN WALL SYSTEMS						
LUMBER & ENGINEERED WOOD						
Lumber - Softwood						
Framing, BF	10,237	62,739	77,151	45,072	43,369	238,568
Boards, BF	na	na	na	na	na	na
Treated Framing, BF	88	524	652	381	361	2,006
Treated Boards, BF	na	na	na	na	na	na
Solid Sawn Beams and Posts, BF	93	564	692	404	391	2,144
Logs, BF	1,137	6,920	8,508	4,971	2,276	23,811
Subtotal Lumber, BF	11,554	70,747	87,003	50,828	46,396	266,529
Engineered Wood						
Glulam, BF	26	153	187	109	106	582
I-joist, BF equivalent	6	31	55	32	31	156
LVL, BF equivalent	81	487	596	348	298	1,810
Parallam™, BF equivalent	8	45	56	32	32	173
Timberstrand™, BF equivalent	2	46	57	33	25	164
Plywood Rim Board, BF equivalent	na	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na	na
SubTotal Engineered Wood, BF equivalent	123	764	950	555	492	2,884
Total Lbr. & Eng. Wood, BF equivalent	11,677	71,511	87,954	51,383	46,888	269,413
Lbr. & Eng. Lumber equivalent of:						
Concrete, BF equivalent	1,266	7,891	10,567	6,173	5,633	31,531
Steel - Exterior Walls, BF equivalent	220	1,339	1,646	962	878	5,044
Steel - Interior Walls, BF equivalent	68	1,287	1,583	925	844	4,707
Total Actual plus Potential Lbr. & Eng. Lumber, BF equivalent	13,231	82,028	101,751	59,443	54,244	310,696
STRUCTURAL AND NONSTRUCTURAL PANELS (Including Plywood in Box Beams)						
Structural Panels, SF 3/8" Basis						
Softwood Plywood	250	1,509	1,853	1,082	1,053	5,747
Treated Plywood	na	na	na	na	na	na
OSB	579	3,426	4,250	2,483	2,414	13,151
Total Structural Panels, SF 3/8" basis	829	4,934	6,103	3,565	3,467	18,898
Nonstructural Wood Panels, SF 3/8" Basis						
MDF	na	na	na	na	na	na
Particleboard	na	na	na	na	na	na
Hardboard	na	na	na	na	na	na
Lauan Plywood	na	na	na	na	na	na
Fiberboard	13	77	94	55	54	293
Total Non-Str'l Wood Panels, SF 3/8" basis	13	77	94	55	54	293
Total Panels, SF 3/8" basis equivalent	842	5,012	6,197	3,620	3,520	19,192
Panel equivalent of:						
Concrete, SF 3/8" basis equivalent	383	2,292	2,814	1,644	1,599	8,732
Foam & Other, SF 3/8" basis equivalent	91	499	782	457	392	2,221
Total Actual plus Potential, SF 3/8" basis equiv.	1,316	7,803	9,794	5,722	5,511	30,145

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
TOTAL WOOD USAGE IN ROOF SYSTEMS						
LUMBER & ENGINEERED WOOD						
Lumber - Softwood						
Framing, BF	3,366	20,198	24,709	14,435	14,036	76,745
Boards, BF	110	690	844	493	464	2,600
Treated Framing, BF	na	na	na	na	na	na
Treated Boards, BF	na	na	na	na	na	na
Solid Sawn Beams, BF	8	29	125	325	181	669
Logs, BF	na	na	na	na	na	na
Subtotal Lumber, BF	3,485	20,917	25,678	15,253	14,681	80,014
Engineered Wood						
Glulam, BF	23	25	26	12	113	199
I-joist, BF equivalent	49	323	444	211	206	1,232
LVL, BF equivalent	29	84	50	33	82	277
Parallam™, BF equivalent	1	10	12	6	51	80
Timberstrand™, BF equivalent	6	37	610	46	59	758
Plywood Rim Board, BF equivalent	na	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na	na
SubTotal Engineered Wood, BF equivalent	108	478	1,142	307	511	2,546
Total Lbr. & Eng. Wood, BF equivalent	3,593	21,395	26,820	15,560	15,192	82,561
Lbr. & Eng. Lumber equivalent of:						
Steel, BF equivalent	37	158	276	160	157	788
Total Actual plus Potential Lbr. & Eng. Lumber, BF equivalent	3,630	21,553	27,096	15,721	15,349	83,349
STRUCTURAL AND NONSTRUCTURAL PANELS						
Structural Panels, SF 3/8" Basis						
Softwood Plywood	2,544	15,266	18,675	10,910	10,609	58,004
Treated Plywood	na	na	na	na	na	na
OSB	2,486	14,914	18,245	10,659	10,242	56,546
Total Structural Panels, SF 3/8" basis	5,030	30,180	36,920	21,569	20,851	114,550
Nonstructural Wood Panels, SF 3/8" Basis						
MDF	na	na	na	na	na	na
Particleboard	na	na	na	na	na	na
Hardboard	na	na	na	na	na	na
Lauan Plywood	na	na	na	na	na	na
Fiberboard	na	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	na	na	na	na	na	na
Total Panels, SF 3/8" basis equivalent	5,030	30,180	36,920	21,569	20,851	114,550

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
TOTAL WOOD USAGE IN FOUNDATIONS						
LUMBER & ENGINEERED WOOD						
Lumber - Softwood						
Framing, BF	na	na	na	na	na	na
Boards, BF	na	na	na	na	na	na
Treated Framing, BF	464	2,784	3,406	1,990	1,935	10,577
Treated Boards, BF	5	28	34	20	19	106
Posts, BF	2	14	17	10	10	53
Logs, BF	na	na	na	na	na	na
Subtotal Lumber, BF	471	2,825	3,457	2,019	1,964	10,736
Engineered Wood						
Glulam, BF	na	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na	na
SubTotal Engineered Wood, BF equivalent	na	na	na	na	na	na
Total Lbr. & Eng. Wood, BF equivalent	471	2,825	3,457	2,019	1,964	10,736
STRUCTURAL AND NONSTRUCTURAL PANELS						
Structural Panels, SF 3/8" Basis						
Softwood Plywood	na	na	na	na	na	na
Treated Plywood	378	2,269	2,776	1,622	1,577	8,621
OSB	na	na	na	na	na	na
Total Structural Panels, SF 3/8" basis	378	2,269	2,776	1,622	1,577	8,621
Nonstructural Wood Panels, SF 3/8" Basis						
MDF	na	na	na	na	na	na
Particleboard	na	na	na	na	na	na
Hardboard	na	na	na	na	na	na
Lauan Plywood	na	na	na	na	na	na
Fiberboard	na	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	na	na	na	na	na	na
Total Panels, SF 3/8" basis equivalent	378	2,269	2,776	1,622	1,577	8,621

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
TOTAL WOOD USAGE IN DECKS & PORCHES						
LUMBER & ENGINEERED WOOD						
Lumber - Softwood						
Framing, BF	757	4,540	5,554	3,245	1,841	15,936
Boards, BF	65	387	474	277	167	1,370
Treated Framing, BF	1,324	7,353	8,951	5,676	5,519	28,822
Treated Boards, BF	427	2,560	3,132	1,830	1,316	9,265
Posts, BF	121	725	887	518	504	2,756
Logs, BF	na	na	na	na	na	na
Subtotal Lumber, BF	2,693	15,566	18,998	11,546	9,347	58,150
Engineered Wood						
Glulam, BF	na	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na	na
SubTotal Engineered Wood, BF equivalent	na	na	na	na	na	na
Total Lbr. & Eng. Wood, BF equivalent	2,693	15,566	18,998	11,546	9,347	58,150
STRUCTURAL AND NONSTRUCTURAL PANELS						
Structural Panels, SF 3/8" Basis						
Softwood Plywood	na	na	na	na	na	na
Treated Plywood	na	na	na	na	na	na
OSB	na	na	na	na	na	na
Total Structural Panels, SF 3/8" basis	na	na	na	na	na	na
Nonstructural Wood Panels, SF 3/8" Basis						
MDF	na	na	na	na	na	na
Particleboard	na	na	na	na	na	na
Hardboard	na	na	na	na	na	na
Lauan Plywood	na	na	na	na	na	na
Fiberboard	na	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	na	na	na	na	na	na
Total Panels, SF 3/8" basis equivalent	na	na	na	na	na	na

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN ALL FRAMING (excluding sheathing and underlayment)						
TOTAL LUMBER - FOUNDATIONS, WALLS, FLOORS, ROOFS, BEAMS, HEADERS, RIM BOARDS, DECKS & PORCHES						
Lumber - Regular, BF						
2x2s	2	13	16	9	9	50
2x3s	832	5,065	6,228	3,639	3,500	19,264
2x4s	10,124	61,223	75,084	43,865	42,026	232,322
2x6s	3,970	24,590	30,231	17,661	16,992	93,444
2x8s	1,165	6,987	8,562	5,002	3,938	25,655
2x10s	1,139	6,851	8,302	4,850	4,716	25,859
2x12s	915	5,444	7,340	9,496	3,860	27,056
Boards	65	387	474	277	167	1,370
Solid Sawn Beams and Posts	823	4,919	6,110	3,822	3,578	19,252
Logs	1,137	6,920	8,508	4,971	2,276	23,811
Total Lumber - Regular, BF	20,171	122,401	150,857	93,591	81,062	468,082
Lumber - Treated, BF						
2x2s	101	609	745	435	423	2,314
2x4s	475	2,666	3,258	2,043	1,978	10,421
2x6s	393	2,269	2,769	1,686	1,640	8,757
2x8s	451	2,592	3,163	1,932	1,879	10,017
2x10s	247	1,330	1,615	1,059	1,029	5,280
2x12s	82	443	538	353	343	1,760
Boards	431	2,588	3,166	1,850	1,336	9,371
Posts	128	766	937	547	532	2,909
Total Lumber - Treated, BF	2,309	13,263	16,191	9,906	9,160	50,829
Total Lumber, BF	22,480	135,664	167,048	103,497	90,222	518,911
TOTAL LUMBER AND ENGINEERED WOOD EQUIVALENTS USED IN FRAMING (Excluding boards)						
Lumber Equivalent						
Lumber, BF	21,530	129,979	160,002	99,128	86,112	496,750
Solid Sawn Beams and Posts, BF	950	5,685	7,047	4,369	4,110	22,161
Glulam, BF	995	5,857	7,161	4,180	4,166	22,360
I-joist, LF	1,079	6,507	8,064	4,687	4,558	24,896
I-joist, BF equivalent	2,158	13,014	16,129	9,374	9,116	49,791
LVL, Cubic Feet	170	473	484	723	299	2,149
LVL, BF equivalent	2,718	7,568	7,740	11,565	4,790	34,382
Parallam™, Cubic Feet	6	36	44	25	28	139
Parallam™, BF equivalent	95	573	700	407	442	2,217
Timberstrand™, Cubic Feet	2	17	143	41	42	245
Timberstrand™, BF equivalent	26	265	2,289	663	671	3,914
Plywood, BF equivalent	1	0	0	0	0	1
OSB, BF equivalent	0	15	0	0	9	24
Total Engineered Wood, BF equivalent	5,994	27,292	34,018	26,190	19,194	112,688
Total Lbr. & Eng. Wood, BF equivalent	28,474	162,955	201,067	129,687	109,416	631,600

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR SYSTEMS						
LUMBER & ENGINEERED WOOD						
ALL FLOORS						
Total Lbr. & Eng. Wood, BF equivalent	10,176	52,498	64,864	49,778	36,592	213,907
Concrete, BF equivalent	3,549	16,156	22,425	17,535	12,182	71,847
Steel, BF equivalent	198	2,140	3,797	2,901	1,051	10,086
Total Material, BF equivalent	13,923	70,794	91,085	70,214	49,825	295,841
GROUND FLOOR						
Total Lbr. & Eng. Wood, BF equivalent	4,404	22,570	27,977	22,008	15,893	92,851
Concrete, BF equivalent	3,061	14,922	19,303	15,185	10,430	62,901
Steel, BF equivalent	66	1,021	1,254	986	350	3,677
Total Material, BF equivalent	7,530	38,513	48,534	38,180	26,673	159,429
UPPER FLOORS						
Total Lbr. & Eng. Wood, BF equivalent	5,772	29,927	36,887	27,769	20,700	121,056
Concrete, BF equivalent	488	1,234	3,122	2,350	1,752	8,946
Steel, BF equivalent	132	1,119	2,543	1,914	701	6,409
Total Material, BF equivalent	6,393	32,281	42,552	32,034	23,153	136,411
STRUCTURAL AND NONSTRUCTURAL PANELS						
ALL FLOORS						
Total Panels, SF 3/8" basis equivalent	7,019	43,655	54,098	36,033	31,052	171,857
Concrete, SF 3/8" basis equivalent	2,207	14,748	17,937	11,235	10,668	56,795
Total Material, SF 3/8" basis equivalent	9,226	58,403	72,035	47,268	41,720	228,652
GROUND FLOOR						
Total Panels, SF 3/8" basis equivalent	3,921	24,639	29,965	19,959	17,183	95,666
Concrete, SF 3/8" basis equivalent	1,233	8,324	9,935	6,223	5,903	31,618
Total Material, SF 3/8" basis equivalent	5,154	32,963	39,901	26,182	23,086	127,284
UPPER FLOORS						
Total Panels, SF 3/8" basis equivalent	3,098	19,016	24,133	16,074	13,869	76,191
Concrete, SF 3/8" basis equivalent	974	6,424	8,002	5,012	4,765	25,177
Total Material, SF 3/8" basis equivalent	4,072	25,441	32,135	21,086	18,634	101,368

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR FRAMING - ALL FLOORS						
FLOOR JOISTS - ALL FLOORS						
2 x 4s (Trusses), BF	1,617	9,703	11,870	6,935	6,743	36,868
2 x 8s, BF Lumber	204	1,228	1,487	869	845	4,632
2 x 10s, BF Lumber	1,103	6,638	8,041	4,698	4,568	25,049
2 x 12s, BF Lumber	133	801	970	567	551	3,022
Subtotal: Lumber in Floor Joists, BF	3,058	18,370	22,369	13,068	12,707	69,571
I-joist, LF	705	4,229	5,271	3,079	2,994	16,278
I-joist, BF equivalent	1,410	8,459	10,542	6,158	5,988	32,557
Total Lbr. & Eng. Wood, BF equivalent	4,467	26,828	32,910	19,226	18,695	102,127
FLOOR BEAMS - ALL FLOORS						
Built-up Dimension Lumber, BF	730	4,286	5,979	8,701	3,087	22,783
Solid Sawn Beams, BF	600	3,601	4,405	2,574	2,502	13,682
Glulam, BF	947	5,679	6,948	4,059	3,947	21,579
I-joist, LF	347	2,080	2,544	1,486	1,445	7,902
I-joist, BF equivalent	693	4,159	5,088	2,973	2,891	15,804
LVL, Cubic Feet	163	434	443	699	276	2,015
LVL, BF equivalent	2,608	6,936	7,094	11,184	4,411	32,234
Parallam™, Cubic Feet	5	32	40	23	22	123
Parallam™, BF equivalent	86	517	633	370	359	1,965
Timberstrand™, Cubic Feet	1	11	62	36	35	147
Timberstrand™, BF equivalent	18	181	999	584	568	2,350
Total Lbr. & Eng. Wood, BF equivalent	5,683	25,360	31,146	30,443	17,765	110,397
RIM BOARDS FOR I-JOISTS - ALL FLOORS						
Lumber, BF	0	40	0	0	0	40
Glulam, BF	0	0	0	0	0	0
I-joist, LF	na	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na	na
LVL, Cubic Feet	0	4	0	0	0	4
LVL, BF equivalent	0	61	0	0	0	61
Timberstrand™, Cubic Feet	0	0	39	0	1	40
Timberstrand™, BF equivalent	0	0	622	0	19	641
Plywood, 3/8 inch basis	1	0	0	0	0	1
Plywood, BF equivalent	1	0	0	0	0	1
OSB, 3/8 inch basis	0	30	0	0	19	48
OSB, BF equivalent	0	15	0	0	9	24
Total Lbr. & Eng. Wood, BF equivalent	1	158	622	0	28	809

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR FRAMING - ALL FLOORS (CONTINUED)						
TOTAL WOOD USAGE IN FLOOR FRAMING - ALL FLOORS (Excluding boards)						
Lumber Equivalent						
Lumber, BF	4,388	26,297	32,753	24,342	18,296	106,076
Glulam, BF	947	5,679	6,948	4,059	3,947	21,579
I-joist, LF	1,051	6,330	7,815	4,566	4,439	24,201
I-joist, BF equivalent	2,103	12,660	15,630	9,131	8,879	48,403
LVL, Cubic Feet	163	437	443	699	276	2,018
LVL, BF equivalent	2,608	6,997	7,094	11,184	4,411	32,295
Parallam™, Cubic Feet	5	32	40	23	22	123
Parallam™, BF equivalent	86	517	633	370	359	1,965
Timberstrand™, Cubic Feet	1	11	101	36	37	187
Timberstrand™, BF equivalent	18	181	1,622	584	586	2,991
Plywood, BF equivalent	1	0	0	0	0	1
OSB, BF equivalent	0	15	0	0	9	24
Total Engineered Wood, BF equivalent	5,763	26,050	31,926	25,328	18,191	107,257
Total Lbr. & Eng. Wood, BF equivalent	10,151	52,346	64,679	49,670	36,488	213,333

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR FRAMING - GROUND FLOOR						
FLOOR JOISTS - GROUND FLOOR						
2 x 4s (Trusses), BF	1,208	7,248	8,867	5,180	5,037	27,539
2 x 8s, BF Lumber	49	296	359	210	204	1,118
2 x 10s, BF Lumber	266	1,602	1,941	1,134	1,103	6,046
2 x 12s, BF Lumber	32	193	234	137	133	729
Subtotal: Lumber in Floor Joists, BF	1,556	9,340	11,401	6,660	6,476	35,433
I-joist, LF	227	1,364	1,700	993	966	5,250
I-joist, BF equivalent	455	2,728	3,400	1,986	1,931	10,501
Total Lbr. & Eng. Wood, BF equivalent	2,010	12,068	14,801	8,647	8,408	45,933
FLOOR BEAMS - GROUND FLOOR						
Built-up Dimension Lumber, BF	358	2,103	2,934	4,269	1,515	11,179
Solid Sawn Beams, BF	306	1,838	2,249	1,314	1,278	6,985
Glulam, BF	457	2,742	3,354	1,959	1,905	10,417
I-joist, LF	18	109	133	78	76	414
I-joist, BF equivalent	36	218	267	156	152	829
LVL, Cubic Feet	72	193	197	311	123	895
LVL, BF equivalent	1,159	3,082	3,152	4,970	1,960	14,324
Parallam™, Cubic Feet	3	18	22	13	13	70
Parallam™, BF equivalent	49	294	359	210	204	1,116
Timberstrand™, Cubic Feet	1	8	45	27	26	107
Timberstrand™, BF equivalent	13	132	726	424	412	1,707
Total Lbr. & Eng. Wood, BF equivalent	2,379	10,409	13,041	13,302	7,426	46,556
RIM BOARDS FOR I-JOISTS - GROUND FLOOR						
Lumber, BF	0	2	0	0	0	2
Glulam, BF	0	0	0	0	0	0
I-joist, LF	0	1	0	0	0	1
I-joist, BF equivalent	0	2	0	0	0	2
LVL, Cubic Feet	0	0	0	0	0	0
LVL, BF equivalent	0	3	0	0	0	3
Timberstrand™, Cubic Feet	0	0	2	0	0	2
Timberstrand™, BF equivalent	0	0	33	0	1	34
Plywood, 3/8 inch basis	0	0	0	0	0	0
Plywood, BF equivalent	0	0	0	0	0	0
OSB, 3/8 inch basis	0	2	0	0	1	3
OSB, BF equivalent	0	1	0	0	0	1
Total Lbr. & Eng. Wood, BF equivalent	0	8	33	0	1	42

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR FRAMING - GROUND FLOOR (CONTINUED)						
TOTAL WOOD USAGE IN FLOOR FRAMING - GROUND FLOOR (Excluding boards)						
Lumber Equivalent						
Lumber, BF	2,220	13,283	16,583	12,243	9,269	53,598
Glulam, BF	457	2,742	3,354	1,959	1,905	10,417
I-joist, LF	246	1,474	1,833	1,071	1,042	5,666
I-joist, BF equivalent	491	2,949	3,667	2,142	2,083	11,332
LVL, Cubic Feet	72	193	197	311	123	895
LVL, BF equivalent	1,159	3,085	3,152	4,970	1,960	14,327
Parallam™, Cubic Feet	3	18	22	13	13	70
Parallam™, BF equivalent	49	294	359	210	204	1,116
Timberstrand™, Cubic Feet	1	8	47	27	26	109
Timberstrand™, BF equivalent	13	132	759	424	413	1,741
Plywood, BF equivalent	0	0	0	0	0	0
OSB, BF equivalent	0	1	0	0	0	1
Total Engineered Wood, BF equivalent	2,169	9,202	11,291	9,705	6,566	38,934
Total Lbr. & Eng. Wood, BF equivalent	4,390	22,485	27,874	21,949	15,835	92,532

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR FRAMING - UPPER FLOORS						
FLOOR JOISTS - UPPER FLOORS						
2 x 4s (Trusses), BF	409	2,455	3,003	1,755	1,706	9,328
2 x 8s, BF Lumber	155	931	1,128	659	641	3,514
2 x 10s, BF Lumber	837	5,036	6,101	3,564	3,465	19,003
2 x 12s, BF Lumber	101	608	736	430	418	2,293
Subtotal: Lumber in Floor Joists, BF	1,502	9,030	10,968	6,408	6,231	34,138
I-joist, LF	478	2,865	3,571	2,086	2,028	11,028
I-joist, BF equivalent	955	5,730	7,141	4,172	4,057	22,056
Total Lbr. & Eng. Wood, BF equivalent	2,457	14,760	18,110	10,580	10,287	56,194
FLOOR BEAMS - UPPER FLOORS						
Built-up Dimension Lumber, BF	372	2,183	3,045	4,432	1,572	11,604
Solid Sawn Beams, BF	294	1,763	2,156	1,260	1,225	6,697
Glulam, BF	490	2,938	3,594	2,099	2,041	11,162
I-joist, LF	328	1,971	2,411	1,408	1,369	7,488
I-joist, BF equivalent	657	3,941	4,822	2,817	2,739	14,976
LVL, Cubic Feet	91	241	246	388	153	1,119
LVL, BF equivalent	1,449	3,854	3,942	6,215	2,451	17,911
Parallam™, Cubic Feet	2	14	17	10	10	53
Parallam™, BF equivalent	37	223	273	160	155	849
Timberstrand™, Cubic Feet	0	3	17	10	10	40
Timberstrand™, BF equivalent	5	50	273	160	155	643
Total Lbr. & Eng. Wood, BF equivalent	3,304	14,952	18,105	17,141	10,339	63,841
RIM BOARDS FOR I-JOISTS - UPPER FLOORS						
Lumber, BF	0	38	0	0	0	38
Glulam, BF	0	0	0	0	0	0
I-joist, LF	0	20	0	0	0	20
I-joist, BF equivalent	0	40	0	0	0	40
LVL, Cubic Feet	0	4	0	0	0	4
LVL, BF equivalent	0	58	0	0	0	58
Timberstrand™, Cubic Feet	0	0	37	0	1	38
Timberstrand™, BF equivalent	0	0	590	0	18	607
Plywood, 3/8 inch basis	1	0	0	0	0	1
Plywood, BF equivalent	1	0	0	0	0	1
OSB, 3/8 inch basis	0	28	0	0	18	46
OSB, BF equivalent	0	14	0	0	9	23
Total Lbr. & Eng. Wood, BF equivalent	1	150	590	0	26	766

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR FRAMING - UPPER FLOORS (CONTINUED)						
TOTAL WOOD USAGE IN FLOOR FRAMING - UPPER FLOORS (Excluding boards)						
Lumber Equivalent						
Lumber, BF	2,168	13,014	16,170	12,099	9,028	52,478
Glulam, BF	490	2,938	3,594	2,099	2,041	11,162
I-joist, LF	806	4,856	5,982	3,494	3,398	18,536
I-joist, BF equivalent	1,612	9,711	11,963	6,989	6,796	37,071
LVL, Cubic Feet	91	244	246	388	153	1,123
LVL, BF equivalent	1,449	3,912	3,942	6,215	2,451	17,968
Parallam™, Cubic Feet	2	14	17	10	10	53
Parallam™, BF equivalent	37	223	273	160	155	849
Timberstrand™, Cubic Feet	0	3	54	10	11	78
Timberstrand™, BF equivalent	5	50	863	160	173	1,250
Plywood, BF equivalent	1	0	0	0	0	1
OSB, BF equivalent	0	14	0	0	9	23
Total Engineered Wood, BF equivalent	3,594	16,848	20,635	15,622	11,625	68,324
Total Lbr. & Eng. Wood, BF equivalent	5,761	29,862	36,805	27,721	20,653	120,802

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN WALL FRAMING						
WALL FRAMING						
2 x 4s Walls, BF	101	623	757	442	432	2,356
2 x 6s Walls, BF	2,160	13,283	16,332	9,541	9,178	50,494
Interior 2 x 3s Walls, BF	832	5,065	6,228	3,639	3,500	19,264
Interior 2 x 4s Walls, BF	4,746	28,891	35,522	20,752	19,961	109,873
Interior 2 x 6s Walls, BF	1,461	9,180	11,287	6,594	6,343	34,865
Treated plates on slabs	88	524	652	381	361	2,006
Blocking for drywall, 2 x 4, BF	286	1,753	2,155	1,259	1,211	6,664
Blocking for drywall, 2 x 6, BF	266	1,631	2,005	1,172	1,127	6,201
Subtotal: Dimension Lumber in Walls	9,939	60,950	74,940	43,780	42,113	231,722
Timberstrand™, BF equivalent	0	0	0	0	0	0
I-joist, BF equivalent	na	na	na	na	na	na
Solid Sawn Beams and Posts, BF	55	335	412	241	231	1,274
Logs, BF	1,137	6,920	8,508	4,971	2,276	23,811
Total Lbr. & Eng. Wood, BF equivalent	11,131	68,205	83,860	48,991	44,620	256,807
WINDOW AND DOOR HEADERS						
Lumber,BF(Blt-up,Open Web & Flitch Pl'te)	333	1,989	2,461	1,438	1,389	7,608
Solid Sawn Beams, BF	37	219	268	157	153	834
Glulam, BF	24	143	175	102	100	545
I-joist, LF	3	14	22	13	13	64
I-joist, BF equivalent	6	28	44	26	25	129
LVL, Cubic Feet	2	13	15	9	6	45
LVL, BF equivalent	34	202	247	144	100	727
Parallam™, Cubic Feet	0	2	3	2	2	9
Parallam™, BF equivalent	6	37	45	26	26	140
Timberstrand™, Cubic Feet	0	2	2	1	1	7
Timberstrand™, BF equivalent	1	29	36	21	20	108
Glued & Nailed Box Beams, BF Lumber	0	6	8	5	4	24
Total Lbr. & Eng. Wood, BF equivalent	441	2,654	3,285	1,919	1,816	10,114
Plywood from Glued & Nailed Box Beams, SF 3/8" basis equiv.	0	8	10	6	6	31
GARAGE DOOR HEADERS						
Lumber, BF (Blt-up,Open Web & Flitch Pl'te)	52	317	391	229	222	1,211
Solid Sawn Beams, BF	2	10	12	7	7	36
Glulam, BF	2	10	12	7	7	37
I-joist, LF	0	2	5	3	3	14
I-joist, BF equivalent	0	4	11	6	6	27
LVL, Cubic Feet	3	18	22	13	12	68
LVL, BF equivalent	47	285	349	204	198	1,083
Parallam™, Cubic Feet	0	1	1	0	0	2
Parallam™, BF equivalent	1	9	11	6	6	33
Timberstrand™, Cubic Feet	0	1	1	1	0	4
Timberstrand™, BF equivalent	1	17	21	12	5	57
Glued & Nailed Box Beams, BF Lumber	0	1	3	2	2	9
Total Lbr. & Eng. Wood, BF equivalent	106	652	809	473	453	2,492
Plywood from Glued & Nailed Box Beams, SF 3/8" basis equiv.	1	5	14	8	8	36

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN WALL FRAMING (CONTINUED)						
TOTAL WOOD USAGE IN WALL FRAMING (Excluding boards)						
Lumber Equivalent						
Lumber, BF	11,554	70,747	87,003	50,828	46,396	266,529
Glulam, BF	26	153	187	109	106	582
I-joist, LF	3	16	27	16	16	78
I-joist, BF equivalent	6	31	55	32	31	156
LVL, Cubic Feet	5	30	37	22	19	113
LVL, BF equivalent	81	487	596	348	298	1,810
Parallam™, Cubic Feet	0	3	3	2	2	11
Parallam™, BF equivalent	8	45	56	32	32	173
Timberstrand™, Cubic Feet	0	3	4	2	2	10
Timberstrand™, BF equivalent	2	46	57	33	25	164
Total Engineered Wood, BF equivalent	123	764	950	555	492	2,884
Total Lbr. & Eng. Wood, BF equivalent	11,677	71,511	87,954	51,383	46,888	269,413

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN ROOF FRAMING						
TRUSSES, RAFTERS AND CEILING JOISTS						
2 x 4s (Trusses), BF	2,888	17,327	21,197	12,383	12,041	65,836
2 x 6s (Rafters), BF	82	489	599	350	340	1,859
2 x 8s (Rafters), BF	155	929	1,136	664	645	3,528
2 x 10s (Rafters), BF	36	213	261	152	148	810
Turn Gables, 2 x 4s, BF	9	55	67	39	38	208
Dormers, 2 x 4s, BF	198	1,185	1,450	847	824	4,504
Subtotal: Framing Lumber in Roofs	3,366	20,198	24,709	14,435	14,036	76,745
I-joist, LF	24	146	178	104	101	553
I-joist, BF equivalent	49	291	356	208	202	1,107
Total Lbr. & Eng. Wood, BF equivalent	3,415	20,489	25,066	14,643	14,239	77,852
ROOF BEAMS (incl. Beam and Purlin Construction)						
Built-up Dimension Lumber, BF	41	470	83	118	210	922
Solid Sawn Beams, BF	8	29	125	325	181	669
Glulam, BF	23	25	26	12	113	199
I-joist, LF	0	16	44	1	2	63
I-joist, BF equivalent	1	32	87	3	3	126
LVL, Cubic Feet	2	5	3	2	5	17
LVL, BF equivalent	29	84	50	33	82	277
Parallam™, Cubic Feet	0	1	1	0	3	5
Parallam™, BF equivalent	1	10	12	6	51	80
Timberstrand™, Cubic Feet	0	2	38	3	4	47
Timberstrand™, BF equivalent	6	37	610	46	59	758
Total Lbr. & Eng. Wood, BF equivalent	109	687	994	543	699	3,031
TOTAL WOOD USAGE IN ROOF FRAMING (Excluding boards)						
Lumber Equivalent						
Lumber, BF	3,416	20,697	24,917	14,879	14,427	78,337
Glulam, BF	23	25	26	12	113	199
I-joist, LF	25	161	222	105	103	616
I-joist, BF equivalent	49	323	444	211	206	1,232
LVL, Cubic Feet	2	5	3	2	5	17
LVL, BF equivalent	29	84	50	33	82	277
Parallam™, Cubic Feet	0	1	1	0	3	5
Parallam™, BF equivalent	1	10	12	6	51	80
Timberstrand™, Cubic Feet	0	2	38	3	4	47
Timberstrand™, BF equivalent	6	37	610	46	59	758
Total Engineered Wood, BF equivalent	108	478	1,142	307	511	2,546
Total Lbr. & Eng. Wood, BF equivalent	3,524	21,176	26,059	15,186	14,938	80,883

	MULTIFAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN BEAMS & HEADERS						
BEAMS & HEADERS - BF OR EQUIVALENT						
Lumber Equivalent						
Lumber, BF	1,156	7,070	8,925	10,492	4,914	32,556
Solid Sawn Beams, BF	647	3,859	4,811	3,063	2,843	15,222
Glulam, BF	995	5,857	7,161	4,180	4,166	22,360
I-joist, LF	350	2,111	2,615	1,504	1,463	8,043
I-joist, BF equivalent	700	4,223	5,231	3,007	2,925	16,086
LVL, Cubic Feet	170	469	484	723	299	2,145
LVL, BF equivalent	2,718	7,507	7,740	11,565	4,790	34,321
Parallam™, Cubic Feet	6	36	44	25	28	139
Parallam™, BF equivalent	95	573	700	407	442	2,217
Timberstrand™, Cubic Feet	2	17	104	41	41	205
Timberstrand™, BF equivalent	26	265	1,667	663	652	3,273
Total Engineered Wood, BF equivalent	4,535	18,424	22,498	19,823	12,976	78,257
Total Lbr. & Eng. Wood, BF equivalent	6,338	29,353	36,234	33,378	20,733	126,035
Plywood, SF 3/8" basis equivalent	1	14	24	14	14	66

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN ALL SHEATHING & UNDERLAYMENT						
ALL SHEATHING & UNDERLAYMENT						
Square Feet						
None	1,510	9,060	11,083	6,475	6,296	34,424
Lauan Plywood - 1/4"	31	262	685	400	389	1,768
Plywood - 1/4"	2	4	12	7	3	29
Plywood - 3/8"	612	3,670	4,490	2,623	2,551	13,947
Plywood - 1/2"	506	3,038	3,717	2,171	2,111	11,544
Plywood - 5/8"	1,574	9,445	11,555	6,750	6,564	35,888
Plywood - 3/4"	502	3,087	4,140	2,419	2,352	12,500
Plywood - 1 1/8"	39	235	287	168	163	892
OSB - 1/4"	47	280	343	200	195	1,064
OSB - 3/8"	226	1,357	1,660	970	943	5,156
OSB - 7/16" or 1/2"	1,367	8,199	10,031	5,860	5,698	31,155
OSB - 5/8"	761	4,677	5,698	3,685	3,263	18,085
OSB - 3/4"	1,491	8,924	10,946	6,395	6,157	33,914
OSB - 7/8"	74	447	547	319	311	1,698
OSB - 1"	168	1,010	1,236	722	702	3,839
OSB - 1 1/8"	102	611	748	437	425	2,323
Particleboard - 1/4"	0	0	0	0	0	0
Particleboard - 3/8"	0	0	0	0	0	0
Particleboard - 1/2"	0	0	0	0	0	0
Particleboard - 5/8"	44	370	430	608	270	1,722
Particleboard - 3/4"	199	1,685	1,957	2,764	1,230	7,836
Hardboard - 1/4"	140	840	1,028	601	584	3,193
Cementitious Board	1	4	12	7	3	28
Boards - 1" - no spacing	48	288	353	206	200	1,096
Boards - 1" - spaced	5	86	106	62	30	288
Boards - 2"	42	254	311	182	177	967
Fiberboard - 1/2"	10	58	71	41	40	220
Gypsum	8	48	59	34	33	183
Foil Faced 3-ply Kraft Paper - 1/8"	8	24	59	34	33	159
Foam	16	81	208	121	75	501
Fiberbond	76	751	1,759	1,027	999	4,612
Other	514	1,678	3,774	2,205	1,199	9,371
TOTAL	10,123	60,477	77,307	47,496	42,997	238,400
ALL SHEATHING & UNDERLAYMENT VOLUMES						
Plywood, SF 3/8" Basis	5,032	30,343	37,854	22,114	21,501	116,845
Lauan Plywood, SF 3/8" Basis	21	175	457	267	260	1,179
OSB, SF 3/8" Basis	7,260	43,690	53,469	31,830	30,295	166,543
Particleboard, SF 3/8" Basis	471	3,987	4,632	6,541	2,912	18,543
Hardboard, SF 3/8" Basis	93	560	685	400	389	2,129
Foam, SF 3/8" str'l panel basis equivalent	387	2,322	2,840	1,659	1,583	8,792
Other, SF 3/8" str'l panel basis equivalent	1,129	4,264	9,550	5,811	3,537	24,292
Total Panel, 3/8" str'l pn'l basis equiv.	14,393	85,341	109,488	68,624	60,476	338,322
Boards, BF	135	841	1,028	601	569	3,174

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR SHEATHING						
FLOOR SHEATHING						
SF of 1st & 2nd Story Floor Area						
None - Slab or Stress Skin Panel	1,115	6,688	8,181	4,779	4,647	25,410
Plywood - 1/2"	20	119	145	85	82	451
Plywood - 5/8"	414	2,487	3,042	1,777	1,728	9,450
Plywood - 3/4"	436	2,618	3,203	1,871	1,820	9,949
Plywood - 1 1/8"	39	235	287	168	163	892
OSB - 7/16" OR 1/2"	63	378	463	270	263	1,438
OSB - 5/8"	102	610	746	436	424	2,317
OSB - 3/4"	1,454	8,727	10,676	6,237	6,065	33,159
OSB - 7/8"	74	447	547	319	311	1,698
OSB - 1"	168	1,010	1,236	722	702	3,839
OSB - 1 1/8"	102	611	748	437	425	2,323
Boards - 1"	22	131	160	93	91	496
Boards - 2"	2	10	13	7	7	39
Other	481	1,480	3,532	2,063	1,061	8,618
TOTAL	4,493	25,551	32,979	19,267	17,789	100,079
FLOOR SHEATHING VOLUMES						
Plywood, SF 3/8" basis	1,707	10,244	12,532	7,321	7,119	38,925
OSB, SF 3/8" basis	4,091	24,546	30,028	17,543	17,058	93,266
Other, SF 3/8" str'l panel basis equivalent	971	2,987	7,127	4,163	2,141	17,388
Total Panel, 3/8" str'l pn'l basis equiv.	6,769	37,777	49,687	29,028	26,318	149,579
Boards, BF	25	151	185	108	105	574

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN WALL SHEATHING						
WALL SHEATHING						
SF of Exterior Wall						
None	313	1,878	2,297	1,342	1,305	7,135
Plywood - 3/8"	119	716	875	511	497	2,719
Plywood - 1/2"	37	222	271	158	154	843
Plywood - 5/8"	39	233	285	166	162	884
Plywood - 3/4"	8	48	59	34	33	183
OSB - 3/8"	226	1,357	1,660	970	943	5,156
OSB - 7/16" OR 1/2"	184	1,104	1,351	789	767	4,196
OSB - 5/8"	55	329	402	235	229	1,250
OSB - 3/4"	8	24	59	34	33	159
Fiberboard - 1/2"	10	58	71	41	40	220
Gypsum	8	48	59	34	33	183
Foil Faced 3-ply Kraft Paper - 1/8"	8	24	59	34	33	159
Foam	16	81	208	121	75	501
Other	33	198	242	142	138	753
TOTAL	1,063	6,319	7,898	4,614	4,444	24,339
Foam as a Second Layer of Sheathing, SF 3/8" basis	371	2,193	2,504	1,463	1,490	8,021
WALL SHEATHING VOLUMES						
Plywood, SF 3/8" basis	249	1,495	1,829	1,068	1,039	5,681
OSB, SF 3/8" basis	579	3,426	4,250	2,483	2,414	13,151
Foam, SF 3/8" str'l panel basis equivalent	387	2,322	2,840	1,659	1,583	8,792
Other, SF 3/8" str'l panel basis equivalent	72	400	528	308	300	1,608
Total Panel, 3/8" str'l pn'l basis equiv.	1,287	7,643	9,447	5,519	5,336	29,232
Boards, BF	0	0	0	0	0	0

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN ROOF SHEATHING						
ROOF SHEATHING						
SF of Roof Area						
None	82	494	605	353	344	1,878
Plywood - 3/8"	26	158	193	113	110	599
Plywood - 1/2"	448	2,687	3,288	1,921	1,868	10,211
Plywood - 5/8"	1,121	6,725	8,228	4,807	4,674	25,554
Plywood - 3/4"	26	158	193	113	110	599
OSB - 7/16" or 1/2"	1,119	6,717	8,217	4,800	4,668	25,521
OSB - 5/8"	561	3,368	4,120	2,407	2,340	12,795
OSB - 3/4"	29	173	212	124	59	596
Boards - 1" - no spacing	26	158	193	113	110	599
Boards - 1" - spaced	5	86	106	62	30	288
Boards - 2"	41	244	299	175	170	928
Other	0	0	0	0	0	0
TOTAL	3,485	20,968	25,652	14,986	14,480	79,571
ROOF SHEATHING VOLUMES						
Plywood, SF 3/8" Basis	2,544	15,266	18,675	10,910	10,609	58,004
OSB, SF 3/8" Basis	2,486	14,914	18,245	10,659	10,242	56,546
Other, SF 3/8" str'l panel basis equivalent	0	0	0	0	0	0
Total Panel, 3/8" str'l pn'l basis equiv.	5,030	30,180	36,920	21,569	20,851	114,550
Boards, BF	110	690	844	493	464	2,600

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN UNDERLAYMENT						
UNDERLAYMENT MATERIAL						
SF of Floor Area						
Lauan Plywood - 1/4"	31	262	685	400	389	1,768
OSB - 1/4"	47	280	343	200	195	1,064
OSB - 3/8"	0	0	0	0	0	0
OSB - 7/16" OR 1/2"	0	0	0	0	0	0
OSB - 5/8"	44	370	430	608	270	1,722
OSB - 3/4"	0	0	0	0	0	0
Plywood - 1/4"	2	4	12	7	3	29
Plywood - 3/8"	466	2,797	3,422	1,999	1,944	10,628
Plywood - 1/2"	2	10	12	7	7	39
Plywood - 5/8"	0	0	0	0	0	0
Plywood - 3/4"	31	262	685	400	389	1,768
Particleboard - 1/4"	0	0	0	0	0	0
Particleboard - 3/8"	0	0	0	0	0	0
Particleboard - 1/2"	0	0	0	0	0	0
Particleboard - 5/8"	44	370	430	608	270	1,722
Particleboard - 3/4"	199	1,685	1,957	2,764	1,230	7,836
Hardboard - 1/4"	140	840	1,028	601	584	3,193
Cementitious Board	1	4	12	7	3	28
Fiberbond	76	751	1,759	1,027	999	4,612
TOTAL	1,081	7,638	10,777	8,629	6,285	34,411
UNDERLAYMENT VOLUMES						
Plywood, SF 3/8" Basis	532	3,338	4,818	2,814	2,734	14,236
Lauan Plywood, SF 3/8" Basis	21	175	457	267	260	1,179
OSB, SF 3/8" Basis	104	804	946	1,146	581	3,580
Particleboard, SF 3/8" Basis	471	3,987	4,632	6,541	2,912	18,543
Hardboard, SF 3/8" Basis	93	560	685	400	389	2,129
Other	86	877	1,896	1,339	1,096	5,295
Total Panel, 3/8" str'l pn'l basis equiv.	1,307	9,741	13,433	12,508	7,971	44,961

	MULTIFAMILY					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FOUNDATIONS						
WOOD FOUNDATION SYSTEMS						
Lumber - Treated, 2 x 6, BF	90	539	660	385	375	2,048
Lumber - Treated, 2 x 8, BF	270	1,617	1,979	1,156	1,124	6,145
Plywood - Treated, SF 3/8" Basis	378	2,269	2,776	1,622	1,577	8,621
MASONRY FOUNDATIONS						
Sill Plates - 2 x 6 Treated, BF	105	627	767	448	436	2,384
Posts - Treated, BF	2	14	17	10	10	53
Furring for Precast - Treated, BF	5	28	34	20	19	106
TOTAL - Treated Lumber, BF	471	2,825	3,457	2,019	1,964	10,736
TOTAL - Treated Plywood, SF 3/8" Basis	378	2,269	2,776	1,622	1,577	8,621

MULTIFAMILY

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN DECKS & PORCHES						
DECKS						
Lumber - Regular, BF						
2x2s	2	10	13	7	7	39
2x4s	1	7	8	5	5	26
2x6s	1	5	6	4	4	20
Boards	6	36	45	26	25	138
Posts	1	7	8	5	5	26
Lumber - Treated, BF						
2x2s	88	530	648	379	368	2,014
2x4s	379	2,089	2,542	1,625	1,580	8,216
2x6s	192	1,063	1,293	825	802	4,175
2x8s	181	975	1,184	776	755	3,872
2x10s	247	1,330	1,615	1,059	1,029	5,280
2x12s	82	443	538	353	343	1,760
Boards	193	1,159	1,418	828	805	4,403
Posts	117	699	856	500	486	2,657
Subtotal - Lumber, BF	11	66	80	47	46	250
Subtotal - Treated Lumber, BF	1,480	8,289	10,095	6,345	6,169	32,377
Total, BF	1,491	8,354	10,176	6,391	6,215	32,627
Deck Surfaces						
Lumber - Regular, BF	6	36	45	26	25	138
Lumber - Treated, BF	193	1,159	1,418	828	805	4,403
PVC / Vinyl / Fiberglass, BF	50	135	152	215	209	760
Wood / Plastic composite, BF	21	124	152	89	86	472
Total Deck Surface Material, BF	270	1,454	1,766	1,158	1,126	5,774
PORCHES						
Lumber - Regular, BF						
2x2s (Railings)	0	3	3	2	2	10
2x4s (Porch Roofs, Breezeways, & Railings)	279	1,672	2,045	1,195	764	5,955
2x6s (Railings)	0	1	2	1	1	5
2x8s (Porch Floors & Breezeways)	474	2,842	3,476	2,031	1,058	9,880
Boards	59	351	429	251	142	1,232
Posts	120	719	879	514	499	2,730
Lumber - Treated, BF						
2x2s (Railings)	13	79	97	56	55	300
2x4s (Porch Roofs, Breezeways, & Railings)	9	52	64	38	36	199
2x6s (Railings)	7	39	48	28	27	150
Boards	234	1,401	1,715	1,002	511	4,862
Posts	9	52	64	38	36	199
Subtotal - Lumber, BF	931	5,587	6,835	3,993	2,466	19,813
Subtotal - Treated Lumber, BF	271	1,625	1,988	1,161	666	5,711
Total, BF	1,202	7,212	8,823	5,154	3,132	25,523
Porch Surfaces						
Lumber - Regular, BF	59	351	429	251	142	1,232
Lumber - Treated, BF	234	1,401	1,715	1,002	511	4,862
Plastic and Composites, BF	0	0	0	0	0	0
Concrete / Brick / Stone / Tiles, BF	0	0	0	0	0	0
Total Porch Surface Material, BF	292	1,753	2,144	1,253	653	6,094

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	TOTAL NEW RESIDENTIAL CANADA TOTAL
			All Data in Thousands			
HOUSING STARTS	10.3	37.8	61.1	51.8	27.1	187.9
TOTAL WOOD USAGE IN NEW RESIDENTIAL CONSTRUCTION						
LUMBER & ENGINEERED WOOD						
Lumber - Softwood						
Framing, BF	80,105	259,230	488,610	436,998	212,376	1,477,319
Boards, BF	1,059	4,691	12,712	6,346	4,223	29,030
Treated Framing, BF	10,241	26,473	49,252	51,669	26,395	164,031
Treated Boards, BF	1,926	3,667	5,086	5,172	2,764	18,615
Solid Sawn Beams and Posts, BF	2,332	11,420	22,883	10,317	10,793	57,747
Logs, BF	6,088	10,266	10,898	5,883	4,178	37,314
Subtotal Lumber, BF	101,751	315,747	589,442	516,385	260,730	1,784,055
Engineered Wood						
Glulam, BF	2,019	8,799	21,232	8,033	6,167	46,250
I-joist, BF equivalent	12,183	26,624	65,930	67,139	28,201	200,078
LVL, BF equivalent	4,915	14,382	20,652	22,296	9,403	71,649
Parallam™, BF equivalent	290	974	1,884	596	1,083	4,827
Timberstrand™, BF equivalent	473	963	4,854	4,913	1,706	12,909
Plywood Rim Board, BF equivalent	2	33	316	11	12	373
OSB Rim Board, BF equivalent	538	323	1,259	344	252	2,715
SubTotal Engineered Wood, BF equivalent	20,420	52,098	116,128	103,333	46,822	338,801
Total Lbr. & Eng. Wood, BF equivalent	122,171	367,845	705,569	619,718	307,552	2,122,856
STRUCTURAL AND NONSTRUCTURAL PANELS						
Structural Panels, SF 3/8" Basis						
Softwood Plywood	48,336	89,823	229,329	181,942	93,941	643,370
Treated Plywood	518	2,561	4,733	4,246	1,878	13,936
OSB	36,806	128,972	220,749	278,839	103,283	768,649
Total Structural Panels, SF 3/8" basis	85,659	221,355	454,811	465,027	199,102	1,425,955
Nonstructural Wood Panels, SF 3/8" Basis						
MDF	0	0	0	0	0	0
Particleboard	1,518	7,886	16,504	19,042	6,320	51,270
Hardboard	129	669	2,969	688	962	5,417
Lauan Plywood	62	320	491	329	546	1,747
Fiberboard	29	2,489	754	154	282	3,708
Total Non-Str'l Wood Panels, SF 3/8" basis	1,737	11,363	20,718	20,213	8,111	62,142
Total Panels, SF 3/8" basis equivalent	87,396	232,718	475,529	485,240	207,213	1,488,097
TOTAL Lumber, Engineered Wood, & Panels BF or Equivalent	165,869	484,204	943,334	862,338	411,159	2,866,904

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			TOTAL NEW RESIDENTIAL			
			All Data in Thousands			
TOTAL WOOD USAGE IN FLOOR SYSTEMS						
LUMBER & ENGINEERED WOOD						
Lumber - Softwood						
Framing, BF	13,832	53,981	96,843	71,136	37,517	273,309
Boards, BF	128	543	1,606	1,832	434	4,544
Treated Framing, BF	na	na	na	na	na	na
Treated Boards, BF	na	na	na	na	na	na
Solid Sawn Beams, BF	937	4,691	11,812	4,444	4,345	26,229
Logs, BF	na	na	na	na	na	na
Subtotal Lumber, BF	14,897	59,215	110,262	77,412	42,296	304,081
Engineered Wood						
Glulam, BF	1,357	7,786	19,218	7,309	5,564	41,234
I-joist, BF equivalent	11,189	24,645	58,460	63,349	24,819	182,462
LVL, BF equivalent	4,372	12,805	17,578	19,379	8,316	62,450
Parallam™, BF equivalent	216	708	1,539	526	836	3,826
Timberstrand™, BF equivalent	449	777	3,123	4,436	1,348	10,133
Plywood Rim Board, BF equivalent	2	33	316	11	12	373
OSB Rim Board, BF equivalent	538	323	1,259	344	252	2,715
SubTotal Engineered Wood, BF equivalent	18,123	47,077	101,493	95,353	41,147	303,193
Total Lbr. & Eng. Wood, BF equivalent	33,021	106,291	211,755	172,765	83,443	607,274
Lbr. & Eng. Lumber equivalent of:						
Concrete, BF equivalent	5,178	21,091	41,181	30,118	20,286	117,855
Steel, BF equivalent	443	2,867	9,784	3,216	1,717	18,027
Total Actual plus Potential Lbr. & Eng. Lumber, BF equivalent	38,641	130,250	262,720	206,099	105,446	743,156
STRUCTURAL AND NONSTRUCTURAL PANELS						
Structural Panels, SF 3/8" Basis						
Softwood Plywood	16,180	41,930	93,220	62,099	38,245	251,675
Treated Plywood	na	na	na	na	na	na
OSB	14,660	52,318	100,801	116,762	38,628	323,167
Total Structural Panels, SF 3/8" basis	30,840	94,248	194,021	178,862	76,873	574,843
Nonstructural Wood Panels, SF 3/8" Basis						
MDF	na	na	na	na	na	na
Particleboard	1,518	7,886	16,504	19,042	6,320	51,270
Hardboard	129	669	2,969	688	962	5,417
Lauan Plywood	62	320	491	329	546	1,747
Fiberboard	na	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	1,708	8,874	19,964	20,059	7,829	58,434
Total Panels, SF 3/8" basis equivalent	32,548	103,122	213,985	198,920	84,702	633,277
Panel equivalent of:						
Concrete, SF 3/8" basis equivalent	4,006	19,362	42,729	26,528	20,986	113,611
Total Actual plus Potential Panels, SF 3/8" basis equivalent	36,554	122,484	256,714	225,448	105,688	746,888

	ATLANTIC PROV.	QUEBEC	TOTAL NEW RESIDENTIAL ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
TOTAL WOOD USAGE IN WALL SYSTEMS						
LUMBER & ENGINEERED WOOD						
Lumber - Softwood						
Framing, BF	41,480	135,931	238,878	230,668	117,004	763,961
Boards, BF	na	na	na	na	na	na
Treated Framing, BF	797	2,776	4,768	5,134	1,818	15,294
Treated Boards, BF	na	na	na	na	na	na
Solid Sawn Beams and Posts, BF	390	3,896	5,578	2,118	3,623	15,605
Logs, BF	6,088	10,266	10,898	5,883	4,178	37,314
Subtotal Lumber, BF	48,756	152,869	260,122	243,804	126,623	832,174
Engineered Wood						
Glulam, BF	534	968	1,952	683	389	4,526
I-joist, BF equivalent	269	115	204	318	173	1,080
LVL, BF equivalent	458	1,424	1,941	2,802	933	7,558
Parallam™, BF equivalent	70	247	316	51	151	835
Timberstrand™, BF equivalent	7	98	255	315	246	922
Plywood Rim Board, BF equivalent	na	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na	na
SubTotal Engineered Wood, BF equivalent	1,338	2,852	4,667	4,169	1,893	14,919
Total Lbr. & Eng. Wood, BF equivalent	50,094	155,721	264,789	247,973	128,516	847,093
Lbr. & Eng. Lumber equivalent of:						
Concrete, BF equivalent	5,460	30,535	72,622	25,448	13,298	147,365
Steel - Exterior Walls, BF equivalent	228	1,541	7,683	1,682	1,384	12,519
Steel - Interior Walls, BF equivalent	231	1,960	3,423	1,127	901	7,642
Total Actual plus Potential Lbr. & Eng. Lumber, BF equivalent	56,013	189,758	348,518	276,231	144,099	1,014,619
STRUCTURAL AND NONSTRUCTURAL PANELS (Including Plywood in Box Beams)						
Structural Panels, SF 3/8" Basis						
Softwood Plywood	11,249	7,200	23,788	29,996	16,188	88,421
Treated Plywood	na	na	na	na	na	na
OSB	11,253	36,024	58,046	81,716	32,871	219,910
Total Structural Panels, SF 3/8" basis	22,502	43,224	81,834	111,712	49,060	308,331
Nonstructural Wood Panels, SF 3/8" Basis						
MDF	na	na	na	na	na	na
Particleboard	na	na	na	na	na	na
Hardboard	na	na	na	na	na	na
Lauan Plywood	na	na	na	na	na	na
Fiberboard	29	2,489	754	154	282	3,708
Total Non-Str'l Wood Panels, SF 3/8" basis	29	2,489	754	154	282	3,708
Total Panels, SF 3/8" basis equivalent	22,530	45,713	82,587	111,866	49,342	312,039
Panel equivalent of:						
Concrete, SF 3/8" basis equivalent	4,375	25,410	60,116	28,499	12,470	130,869
Foam & Other, SF 3/8" basis equivalent	1,846	11,030	14,798	2,216	1,435	31,324
Total Actual plus Potential, SF 3/8" basis equiv.	28,751	82,152	157,501	142,581	63,247	474,232

	ATLANTIC PROV.	QUEBEC	TOTAL NEW RESIDENTIAL ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
TOTAL WOOD USAGE IN ROOF SYSTEMS						
LUMBER & ENGINEERED WOOD						
Lumber - Softwood						
Framing, BF	21,614	61,944	134,255	122,497	50,239	390,550
Boards, BF	345	1,942	4,279	626	834	8,024
Treated Framing, BF	na	na	na	na	na	na
Treated Boards, BF	na	na	na	na	na	na
Solid Sawn Beams, BF	141	956	1,371	1,141	973	4,582
Logs, BF	na	na	na	na	na	na
Subtotal Lumber, BF	22,101	64,841	139,905	124,264	52,046	403,157
Engineered Wood						
Glulam, BF	128	45	62	42	214	490
I-joist, BF equivalent	724	1,865	7,267	3,473	3,208	16,536
LVL, BF equivalent	86	153	1,134	115	154	1,641
Parallam™, BF equivalent	4	19	29	19	96	166
Timberstrand™, BF equivalent	17	88	1,476	162	112	1,854
Plywood Rim Board, BF equivalent	na	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na	na
SubTotal Engineered Wood, BF equivalent	959	2,170	9,967	3,811	3,783	20,689
Total Lbr. & Eng. Wood, BF equivalent	23,059	67,011	149,872	128,074	55,829	423,846
Lbr. & Eng. Lumber equivalent of:						
Steel, BF equivalent	41	276	949	233	444	1,942
Total Actual plus Potential Lbr. & Eng. Lumber, BF equivalent	23,101	67,287	150,821	128,307	56,273	425,788
STRUCTURAL AND NONSTRUCTURAL PANELS						
Structural Panels, SF 3/8" Basis						
Softwood Plywood	20,907	40,693	112,321	89,846	39,508	303,274
Treated Plywood	na	na	na	na	na	na
OSB	10,893	40,631	61,903	80,361	31,784	225,572
Total Structural Panels, SF 3/8" basis	31,800	81,323	174,224	170,207	71,292	528,846
Nonstructural Wood Panels, SF 3/8" Basis						
MDF	na	na	na	na	na	na
Particleboard	na	na	na	na	na	na
Hardboard	na	na	na	na	na	na
Lauan Plywood	na	na	na	na	na	na
Fiberboard	na	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	na	na	na	na	na	na
Total Panels, SF 3/8" basis equivalent	31,800	81,323	174,224	170,207	71,292	528,846

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	TOTAL NEW RESIDENTIAL CANADA TOTAL
			All Data in Thousands			
TOTAL WOOD USAGE IN FOUNDATIONS						
LUMBER & ENGINEERED WOOD						
Lumber - Softwood						
Framing, BF	na	na	na	na	na	na
Boards, BF	na	na	na	na	na	na
Treated Framing, BF	1,597	5,523	9,947	9,621	4,065	30,753
Treated Boards, BF	23	113	204	129	230	699
Posts, BF	24	68	121	124	50	387
Logs, BF	na	na	na	na	na	na
Subtotal Lumber, BF	1,645	5,704	10,271	9,874	4,345	31,839
Engineered Wood						
Glulam, BF	na	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na	na
SubTotal Engineered Wood, BF equivalent	na	na	na	na	na	na
Total Lbr. & Eng. Wood, BF equivalent	1,645	5,704	10,271	9,874	4,345	31,839
STRUCTURAL AND NONSTRUCTURAL PANELS						
Structural Panels, SF 3/8" Basis						
Softwood Plywood	na	na	na	na	na	na
Treated Plywood	518	2,561	4,733	4,246	1,878	13,936
OSB	na	na	na	na	na	na
Total Structural Panels, SF 3/8" basis	518	2,561	4,733	4,246	1,878	13,936
Nonstructural Wood Panels, SF 3/8" Basis						
MDF	na	na	na	na	na	na
Particleboard	na	na	na	na	na	na
Hardboard	na	na	na	na	na	na
Lauan Plywood	na	na	na	na	na	na
Fiberboard	na	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	na	na	na	na	na	na
Total Panels, SF 3/8" basis equivalent	518	2,561	4,733	4,246	1,878	13,936

	ATLANTIC PROV.	QUEBEC	TOTAL NEW RESIDENTIAL ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
TOTAL WOOD USAGE IN DECKS & PORCHES						
LUMBER & ENGINEERED WOOD						
Lumber - Softwood						
Framing, BF	3,177	7,374	18,634	12,697	7,616	49,498
Boards, BF	586	2,206	6,827	3,889	2,955	16,463
Treated Framing, BF	7,847	18,174	34,537	36,914	20,512	117,984
Treated Boards, BF	1,903	3,554	4,882	5,042	2,534	17,916
Posts, BF	840	1,810	4,001	2,490	1,802	10,943
Logs, BF	na	na	na	na	na	na
Subtotal Lumber, BF	14,353	33,118	68,881	61,032	35,420	212,803
Engineered Wood						
Glulam, BF	na	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na	na
LVL, BF equivalent	na	na	na	na	na	na
Parallam™, BF equivalent	na	na	na	na	na	na
Timberstrand™, BF equivalent	na	na	na	na	na	na
Plywood Rim Board, BF equivalent	na	na	na	na	na	na
OSB Rim Board, BF equivalent	na	na	na	na	na	na
SubTotal Engineered Wood, BF equivalent	na	na	na	na	na	na
Total Lbr. & Eng. Wood, BF equivalent	14,353	33,118	68,881	61,032	35,420	212,803
STRUCTURAL AND NONSTRUCTURAL PANELS						
Structural Panels, SF 3/8" Basis						
Softwood Plywood	na	na	na	na	na	na
Treated Plywood	na	na	na	na	na	na
OSB	na	na	na	na	na	na
Total Structural Panels, SF 3/8" basis	na	na	na	na	na	na
Nonstructural Wood Panels, SF 3/8" Basis						
MDF	na	na	na	na	na	na
Particleboard	na	na	na	na	na	na
Hardboard	na	na	na	na	na	na
Lauan Plywood	na	na	na	na	na	na
Fiberboard	na	na	na	na	na	na
Total Non-Str'l Wood Panels, SF 3/8" basis	na	na	na	na	na	na
Total Panels, SF 3/8" basis equivalent	na	na	na	na	na	na

	ATLANTIC PROV.	QUEBEC	TOTAL NEW RESIDENTIAL ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN ALL FRAMING (excluding sheathing and underlayment)						
TOTAL LUMBER - FOUNDATIONS, WALLS, FLOORS, ROOFS, BEAMS, HEADERS, RIM BOARDS, DECKS & PORCHES						
Lumber - Regular, BF						
2x2s	55	304	1,419	298	653	2,728
2x3s	964	7,622	11,479	5,245	4,735	30,044
2x4s	42,910	142,296	283,059	241,661	109,327	819,253
2x6s	22,446	65,157	101,795	121,348	61,370	372,116
2x8s	5,939	14,461	22,710	21,884	11,767	76,761
2x10s	4,440	17,205	42,249	29,261	15,758	108,913
2x12s	3,350	12,187	25,907	17,315	8,769	67,528
Boards	586	2,206	6,827	3,889	2,955	16,463
Solid Sawn Beams and Posts	2,308	11,352	22,762	10,194	10,743	57,359
Logs	6,088	10,266	10,898	5,883	4,178	37,314
Total Lumber - Regular, BF	89,087	283,055	529,106	456,977	230,255	1,588,480
Lumber - Treated, BF						
2x2s	643	1,339	1,843	977	643	5,445
2x4s	3,102	8,112	15,001	16,192	7,994	50,401
2x6s	2,428	6,445	11,760	12,125	5,824	38,581
2x8s	1,442	4,364	8,587	9,190	4,732	28,315
2x10s	1,463	3,462	7,109	8,405	4,627	25,066
2x12s	488	1,154	2,370	2,802	1,542	8,355
Boards	1,926	3,667	5,086	5,172	2,764	18,615
Posts	700	1,666	2,703	2,102	1,083	8,255
Total Lumber - Treated, BF	12,192	30,209	54,459	56,964	29,209	183,033
Total Lumber, BF	101,278	313,264	583,565	513,942	259,464	1,771,512
TOTAL LUMBER AND ENGINEERED WOOD EQUIVALENTS USED IN FRAMING (Excluding boards)						
Lumber Equivalent						
Lumber, BF	98,270	300,245	558,099	501,646	247,638	1,705,898
Solid Sawn Beams and Posts, BF	3,008	13,018	25,466	12,296	11,826	65,614
Glulam, BF	2,019	8,799	21,232	8,033	6,167	46,250
I-joist, LF	6,092	13,312	32,965	33,570	14,100	100,039
I-joist, BF equivalent	12,183	26,624	65,930	67,139	28,201	200,078
LVL, Cubic Feet	307	899	1,291	1,394	588	4,478
LVL, BF equivalent	4,915	14,382	20,652	22,296	9,403	71,649
Parallam™, Cubic Feet	18	61	118	37	68	302
Parallam™, BF equivalent	290	974	1,884	596	1,083	4,827
Timberstrand™, Cubic Feet	30	60	303	307	107	807
Timberstrand™, BF equivalent	473	963	4,854	4,913	1,706	12,909
Plywood, BF equivalent	2	33	316	11	12	373
OSB, BF equivalent	538	323	1,259	344	252	2,715
Total Engineered Wood, BF equivalent	20,420	52,098	116,128	103,333	46,822	338,801
Total Lbr. & Eng. Wood, BF equivalent	121,699	365,361	699,692	617,274	306,287	2,110,313

	TOTAL NEW RESIDENTIAL					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR SYSTEMS						
LUMBER & ENGINEERED WOOD						
ALL FLOORS						
Total Lbr. & Eng. Wood, BF equivalent	33,021	106,291	211,755	172,765	83,443	607,274
Concrete, BF equivalent	5,178	21,091	41,181	30,118	20,286	117,855
Steel, BF equivalent	443	2,867	9,784	3,216	1,717	18,027
Total Material, BF equivalent	38,641	130,250	262,720	206,099	105,446	743,156
GROUND FLOOR						
Total Lbr. & Eng. Wood, BF equivalent	21,230	59,290	116,218	107,708	45,065	349,511
Concrete, BF equivalent	4,681	19,119	37,600	25,156	16,012	102,569
Steel, BF equivalent	153	1,080	7,110	1,111	575	10,030
Total Material, BF equivalent	26,065	79,489	160,928	133,974	61,653	462,109
UPPER FLOORS						
Total Lbr. & Eng. Wood, BF equivalent	11,790	47,001	95,537	65,057	38,378	257,763
Concrete, BF equivalent	496	1,972	3,581	4,962	4,274	15,286
Steel, BF equivalent	289	1,788	2,673	2,105	1,142	7,997
Total Material, BF equivalent	12,576	50,761	101,792	72,124	43,793	281,047
STRUCTURAL AND NONSTRUCTURAL PANELS						
ALL FLOORS						
Total Panels, SF 3/8" basis equivalent	32,548	103,122	213,985	198,920	84,702	633,277
Concrete, SF 3/8" basis equivalent	4,006	19,362	42,729	26,528	20,986	113,611
Total Material, SF 3/8" basis equivalent	36,554	122,484	256,714	225,448	105,688	746,888
GROUND FLOOR						
Total Panels, SF 3/8" basis equivalent	22,897	65,417	130,179	127,973	51,510	397,976
Concrete, SF 3/8" basis equivalent	2,570	11,488	25,474	16,364	12,505	68,401
Total Material, SF 3/8" basis equivalent	25,467	76,905	155,653	144,338	64,016	466,377
UPPER FLOORS						
Total Panels, SF 3/8" basis equivalent	9,651	37,705	83,807	70,947	33,191	235,301
Concrete, SF 3/8" basis equivalent	1,436	7,875	17,255	10,164	8,481	45,209
Total Material, SF 3/8" basis equivalent	11,087	45,579	101,061	81,111	41,672	280,510

	ATLANTIC PROV.	QUEBEC	TOTAL NEW RESIDENTIAL ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR FRAMING - ALL FLOORS						
FLOOR JOISTS - ALL FLOORS						
2 x 4s (Trusses), BF	5,958	24,562	28,347	25,106	12,303	96,276
2 x 8s, BF Lumber	742	1,790	2,572	1,723	1,863	8,689
2 x 10s, BF Lumber	3,876	15,928	40,832	27,555	15,058	103,249
2 x 12s, BF Lumber	826	3,823	9,923	4,965	2,377	21,913
Subtotal: Lumber in Floor Joists, BF	11,403	46,102	81,674	59,348	31,601	230,127
I-joist, LF	4,539	9,601	24,875	28,868	10,317	78,201
I-joist, BF equivalent	9,079	19,202	49,751	57,736	20,634	156,402
Total Lbr. & Eng. Wood, BF equivalent	20,481	65,305	131,424	117,083	52,235	386,529
FLOOR BEAMS - ALL FLOORS						
Built-up Dimension Lumber, BF	2,421	7,834	14,266	10,679	5,818	41,018
Solid Sawn Beams, BF	937	4,691	11,812	4,444	4,345	26,229
Glulam, BF	1,356	7,767	19,170	7,305	5,561	41,160
I-joist, LF	1,037	2,683	4,293	2,791	2,075	12,878
I-joist, BF equivalent	2,074	5,366	8,586	5,582	4,149	25,757
LVL, Cubic Feet	273	792	1,072	1,071	520	3,728
LVL, BF equivalent	4,371	12,678	17,148	17,144	8,313	59,652
Parallam™, Cubic Feet	14	44	96	33	52	239
Parallam™, BF equivalent	216	708	1,539	526	836	3,826
Timberstrand™, Cubic Feet	3	21	115	129	36	305
Timberstrand™, BF equivalent	54	332	1,846	2,071	575	4,878
Total Lbr. & Eng. Wood, BF equivalent	11,430	39,374	74,367	47,750	29,597	202,519
RIM BOARDS FOR I-JOISTS - ALL FLOORS						
Lumber, BF	9	45	904	1,109	98	2,164
Glulam, BF	1	19	48	4	3	75
I-joist, LF	na	na	na	na	na	na
I-joist, BF equivalent	na	na	na	na	na	na
LVL, Cubic Feet	0	8	27	140	0	175
LVL, BF equivalent	1	128	430	2,235	3	2,797
Timberstrand™, Cubic Feet	25	28	80	148	48	328
Timberstrand™, BF equivalent	394	446	1,278	2,365	773	5,255
Plywood, 3/8 inch basis	4	65	632	21	23	745
Plywood, BF equivalent	2	33	316	11	12	373
OSB, 3/8 inch basis	1,076	645	2,518	689	504	5,431
OSB, BF equivalent	538	323	1,259	344	252	2,715
Total Lbr. & Eng. Wood, BF equivalent	981	1,069	4,357	6,099	1,176	13,682

	ATLANTIC PROV.	QUEBEC	TOTAL NEW RESIDENTIAL ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR FRAMING - ALL FLOORS (CONTINUED)						
TOTAL WOOD USAGE IN FLOOR FRAMING - ALL FLOORS (Excluding boards)						
Lumber Equivalent						
Lumber, BF	14,769	58,671	108,655	75,580	41,862	299,538
Glulam, BF	1,357	7,786	19,218	7,309	5,564	41,234
I-joist, LF	5,595	12,322	29,230	31,674	12,410	91,231
I-joist, BF equivalent	11,189	24,645	58,460	63,349	24,819	182,462
LVL, Cubic Feet	273	800	1,099	1,211	520	3,903
LVL, BF equivalent	4,372	12,805	17,578	19,379	8,316	62,450
Parallam™, Cubic Feet	14	44	96	33	52	239
Parallam™, BF equivalent	216	708	1,539	526	836	3,826
Timberstrand™, Cubic Feet	28	49	195	277	84	633
Timberstrand™, BF equivalent	449	777	3,123	4,436	1,348	10,133
Plywood, BF equivalent	2	33	316	11	12	373
OSB, BF equivalent	538	323	1,259	344	252	2,715
Total Engineered Wood, BF equivalent	18,123	47,077	101,493	95,353	41,147	303,193
Total Lbr. & Eng. Wood, BF equivalent	32,892	105,748	210,149	170,933	83,009	602,731

	ATLANTIC PROV.	QUEBEC	TOTAL NEW RESIDENTIAL ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR FRAMING - GROUND FLOOR						
FLOOR JOISTS - GROUND FLOOR						
2 x 4s (Trusses), BF	5,123	19,301	21,222	19,823	9,777	75,247
2 x 8s, BF Lumber	360	561	825	520	621	2,887
2 x 10s, BF Lumber	1,866	5,974	16,027	9,433	5,406	38,706
2 x 12s, BF Lumber	432	1,616	4,080	1,734	882	8,743
Subtotal: Lumber in Floor Joists, BF	7,781	27,452	42,154	31,510	16,686	125,583
I-joist, LF	2,971	5,361	14,008	20,381	6,286	49,008
I-joist, BF equivalent	5,942	10,723	28,016	40,763	12,572	98,016
Total Lbr. & Eng. Wood, BF equivalent	13,723	38,175	70,170	72,273	29,259	223,599
FLOOR BEAMS - GROUND FLOOR						
Built-up Dimension Lumber, BF	1,404	5,580	10,269	6,138	2,907	26,298
Solid Sawn Beams, BF	643	2,815	6,150	1,314	2,739	13,661
Glulam, BF	457	4,021	9,750	5,205	2,544	21,977
I-joist, LF	709	109	1,822	1,383	489	4,512
I-joist, BF equivalent	1,417	218	3,644	2,765	979	9,023
LVL, Cubic Feet	151	466	567	674	298	2,156
LVL, BF equivalent	2,411	7,464	9,069	10,789	4,764	34,497
Parallam™, Cubic Feet	6	27	60	23	27	143
Parallam™, BF equivalent	91	430	961	366	434	2,282
Timberstrand™, Cubic Feet	1	14	98	97	26	236
Timberstrand™, BF equivalent	13	224	1,572	1,556	415	3,781
Total Lbr. & Eng. Wood, BF equivalent	6,436	20,753	41,416	28,133	14,782	111,520
RIM BOARDS FOR I-JOISTS - GROUND FLOOR						
Lumber, BF	9	2	873	1,109	65	2,057
Glulam, BF	1	0	46	4	2	53
I-joist, LF	18	1	60	16	12	106
I-joist, BF equivalent	36	2	119	31	23	212
LVL, Cubic Feet	0	0	26	140	0	166
LVL, BF equivalent	1	3	415	2,235	2	2,657
Timberstrand™, Cubic Feet	25	0	42	148	31	245
Timberstrand™, BF equivalent	394	0	666	2,365	496	3,921
Plywood, 3/8 inch basis	3	0	610	21	15	649
Plywood, BF equivalent	1	0	305	11	8	325
OSB, 3/8 inch basis	1,076	2	2,431	689	320	4,517
OSB, BF equivalent	538	1	1,216	344	160	2,258
Total Lbr. & Eng. Wood, BF equivalent	980	8	3,639	6,099	756	11,483

	ATLANTIC PROV.	QUEBEC	TOTAL NEW RESIDENTIAL ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR FRAMING - GROUND FLOOR (CONTINUED)						
TOTAL WOOD USAGE IN FLOOR FRAMING - GROUND FLOOR (Excluding boards)						
Lumber Equivalent						
Lumber, BF	9,837	35,849	59,446	40,070	22,397	167,598
Glulam, BF	458	4,021	9,797	5,209	2,546	22,030
I-joist, LF	3,698	5,472	15,890	21,780	6,787	53,626
I-joist, BF equivalent	7,396	10,943	31,779	43,559	13,574	107,252
LVL, Cubic Feet	151	467	593	814	298	2,322
LVL, BF equivalent	2,412	7,467	9,484	13,024	4,767	37,154
Parallam™, Cubic Feet	6	27	60	23	27	143
Parallam™, BF equivalent	91	430	961	366	434	2,282
Timberstrand™, Cubic Feet	25	14	140	245	57	481
Timberstrand™, BF equivalent	408	224	2,238	3,921	912	7,702
Plywood, BF equivalent	1	0	305	11	8	325
OSB, BF equivalent	538	1	1,216	344	160	2,258
Total Engineered Wood, BF equivalent	11,303	23,087	55,779	66,435	22,400	179,003
Total Lbr. & Eng. Wood, BF equivalent	21,140	58,936	115,225	106,505	44,796	346,601

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			TOTAL NEW RESIDENTIAL			
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR FRAMING - UPPER FLOORS						
FLOOR JOISTS - UPPER FLOORS						
2 x 4s (Trusses), BF	834	5,261	7,126	5,282	2,526	21,029
2 x 8s, BF Lumber	383	1,229	1,747	1,203	1,241	5,802
2 x 10s, BF Lumber	2,010	9,953	24,805	18,122	9,652	64,543
2 x 12s, BF Lumber	394	2,207	5,843	3,231	1,495	13,170
Subtotal: Lumber in Floor Joists, BF	3,622	18,650	39,520	27,838	14,915	104,544
I-joist, LF	1,569	4,240	10,867	8,486	4,031	29,193
I-joist, BF equivalent	3,137	8,480	21,734	16,973	8,062	58,386
Total Lbr. & Eng. Wood, BF equivalent	6,759	27,130	61,254	44,811	22,977	162,930
FLOOR BEAMS - UPPER FLOORS						
Built-up Dimension Lumber, BF	1,017	2,254	3,997	4,541	2,911	14,720
Solid Sawn Beams, BF	294	1,876	5,662	3,131	1,606	12,567
Glulam, BF	900	3,746	9,420	2,099	3,017	19,182
I-joist, LF	328	2,574	2,471	1,408	1,585	8,367
I-joist, BF equivalent	657	5,147	4,942	2,817	3,171	16,734
LVL, Cubic Feet	123	326	505	397	222	1,572
LVL, BF equivalent	1,960	5,214	8,079	6,355	3,548	25,156
Parallam™, Cubic Feet	8	17	36	10	25	96
Parallam™, BF equivalent	125	278	579	160	402	1,543
Timberstrand™, Cubic Feet	3	7	17	32	10	69
Timberstrand™, BF equivalent	41	107	273	515	160	1,097
Total Lbr. & Eng. Wood, BF equivalent	4,994	18,622	32,952	19,617	14,815	90,999
RIM BOARDS FOR I-JOISTS - UPPER FLOORS						
Lumber, BF	0	42	31	0	34	107
Glulam, BF	0	19	2	0	1	22
I-joist, LF	0	37	2	0	6	45
I-joist, BF equivalent	0	74	4	0	12	91
LVL, Cubic Feet	0	8	1	0	0	9
LVL, BF equivalent	0	124	15	0	1	140
Timberstrand™, Cubic Feet	0	28	38	0	17	83
Timberstrand™, BF equivalent	0	446	612	0	276	1,334
Plywood, 3/8 inch basis	1	65	22	0	8	96
Plywood, BF equivalent	1	33	11	0	4	48
OSB, 3/8 inch basis	0	644	87	0	184	914
OSB, BF equivalent	0	322	43	0	92	457
Total Lbr. & Eng. Wood, BF equivalent	1	1,061	718	0	420	2,200

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	TOTAL NEW RESIDENTIAL CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR FRAMING - UPPER FLOORS (CONTINUED)						
TOTAL WOOD USAGE IN FLOOR FRAMING - UPPER FLOORS (Excluding boards)						
Lumber Equivalent						
Lumber, BF	4,933	22,822	49,210	35,510	19,465	131,939
Glulam, BF	900	3,765	9,422	2,099	3,018	19,204
I-joist, LF	1,897	6,851	13,340	9,895	5,623	37,605
I-joist, BF equivalent	3,794	13,702	26,681	19,789	11,245	75,210
LVL, Cubic Feet	123	334	506	397	222	1,581
LVL, BF equivalent	1,960	5,338	8,094	6,355	3,549	25,296
Parallam™, Cubic Feet	8	17	36	10	25	96
Parallam™, BF equivalent	125	278	579	160	402	1,543
Timberstrand™, Cubic Feet	3	35	55	32	27	152
Timberstrand™, BF equivalent	41	553	886	515	436	2,431
Plywood, BF equivalent	1	33	11	0	4	48
OSB, BF equivalent	0	322	43	0	92	457
Total Engineered Wood, BF equivalent	6,820	23,990	45,714	28,918	18,747	124,190
Total Lbr. & Eng. Wood, BF equivalent	11,753	46,812	94,924	64,428	38,212	256,129

	TOTAL NEW RESIDENTIAL					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN WALL FRAMING						
WALL FRAMING						
2 x 4s Walls, BF	446	4,455	7,273	1,497	833	14,505
2 x 6s Walls, BF	18,020	47,251	70,367	100,312	49,862	285,812
Interior 2 x 3s Walls, BF	964	7,622	11,479	5,245	4,735	30,044
Interior 2 x 4s Walls, BF	16,847	54,710	109,507	94,469	45,357	320,890
Interior 2 x 6s Walls, BF	2,165	11,696	21,032	11,641	7,072	53,606
Treated plates on slabs	797	2,776	4,768	5,134	1,818	15,294
Blocking for drywall, 2 x 4, BF	1,035	3,410	7,052	5,866	2,739	20,102
Blocking for drywall, 2 x 6, BF	945	3,134	6,448	5,351	2,513	18,391
Subtotal: Dimension Lumber in Walls	41,220	135,056	237,926	229,515	114,928	758,644
Timberstrand™, BF equivalent	0	0	0	0	0	0
I-joist, BF equivalent	na	na	na	na	na	na
Solid Sawn Beams and Posts, BF	102	2,373	2,239	562	2,840	8,116
Logs, BF	6,088	10,266	10,898	5,883	4,178	37,314
Total Lbr. & Eng. Wood, BF equivalent	47,410	147,695	251,063	235,960	121,946	804,074
WINDOW AND DOOR HEADERS						
Lumber,BF(Blt-up,Open Web & Flitch Pl'te)	963	3,151	4,801	5,646	3,410	17,971
Solid Sawn Beams, BF	216	980	2,900	1,013	360	5,468
Glulam, BF	445	864	1,871	569	363	4,113
I-joist, LF	134	54	71	55	82	396
I-joist, BF equivalent	268	108	142	109	164	792
LVL, Cubic Feet	16	63	83	78	37	277
LVL, BF equivalent	263	1,002	1,321	1,248	594	4,428
Parallam™, Cubic Feet	3	11	9	2	2	28
Parallam™, BF equivalent	53	179	149	39	31	451
Timberstrand™, Cubic Feet	0	4	11	5	15	35
Timberstrand™, BF equivalent	4	64	176	79	237	561
Glued & Nailed Box Beams, BF Lumber	1	12	93	58	5	169
Total Lbr. & Eng. Wood, BF equivalent	2,213	6,361	11,454	8,761	5,164	33,953
Plywood from Glued & Nailed Box Beams, SF 3/8" basis equiv.	1	16	121	75	6	219
GARAGE DOOR HEADERS						
Lumber, BF (Blt-up,Open Web & Flitch Pl'te)	94	486	815	563	476	2,433
Solid Sawn Beams, BF	72	543	439	543	423	2,020
Glulam, BF	89	104	80	113	26	413
I-joist, LF	1	3	31	104	5	144
I-joist, BF equivalent	1	7	62	209	9	288
LVL, Cubic Feet	12	26	39	97	21	196
LVL, BF equivalent	194	422	620	1,554	339	3,129
Parallam™, Cubic Feet	1	4	10	1	7	24
Parallam™, BF equivalent	17	68	166	12	120	383
Timberstrand™, Cubic Feet	0	2	5	15	1	23
Timberstrand™, BF equivalent	2	33	79	236	10	360
Glued & Nailed Box Beams, BF Lumber	0	2	12	21	3	38
Total Lbr. & Eng. Wood, BF equivalent	472	1,665	2,272	3,251	1,405	9,065
Plywood from Glued & Nailed Box Beams, SF 3/8" basis equiv.	2	10	46	83	10	151

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	TOTAL NEW RESIDENTIAL CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN WALL FRAMING (CONTINUED)						
TOTAL WOOD USAGE IN WALL FRAMING (Excluding boards)						
Lumber Equivalent						
Lumber, BF	48,756	152,869	260,122	243,804	126,623	832,174
Glulam, BF	534	968	1,952	683	389	4,526
I-joist, LF	135	58	102	159	87	540
I-joist, BF equivalent	269	115	204	318	173	1,080
LVL, Cubic Feet	29	89	121	175	58	472
LVL, BF equivalent	458	1,424	1,941	2,802	933	7,558
Parallam™, Cubic Feet	4	15	20	3	9	52
Parallam™, BF equivalent	70	247	316	51	151	835
Timberstrand™, Cubic Feet	0	6	16	20	15	58
Timberstrand™, BF equivalent	7	98	255	315	246	922
Total Engineered Wood, BF equivalent	1,338	2,852	4,667	4,169	1,893	14,919
Total Lbr. & Eng. Wood, BF equivalent	50,094	155,721	264,789	247,973	128,516	847,093

	TOTAL NEW RESIDENTIAL					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN ROOF FRAMING						
TRUSSES, RAFTERS AND CEILING JOISTS						
2 x 4s (Trusses), BF	14,964	45,434	94,630	93,547	38,086	286,662
2 x 6s (Rafters), BF	1,288	2,924	3,239	3,895	1,597	12,943
2 x 8s (Rafters), BF	2,442	5,544	6,140	7,382	3,026	24,535
2 x 10s (Rafters), BF	564	1,277	1,418	1,706	700	5,665
Turn Gables, 2 x 4s, BF	982	2,897	4,525	6,641	3,058	18,103
Dormers, 2 x 4s, BF	1,375	3,867	24,304	9,326	3,772	42,643
Subtotal: Framing Lumber in Roofs	21,614	61,944	134,255	122,497	50,239	390,550
I-joist, LF	361	905	3,528	1,732	1,601	8,127
I-joist, BF equivalent	723	1,810	7,056	3,464	3,202	16,254
Total Lbr. & Eng. Wood, BF equivalent	22,337	63,754	141,311	125,961	53,441	406,804
ROOF BEAMS (incl. Beam and Purlin Construction)						
Built-up Dimension Lumber, BF	123	860	821	190	377	2,370
Solid Sawn Beams, BF	141	956	1,371	1,141	973	4,582
Glulam, BF	128	45	62	42	214	490
I-joist, LF	1	27	106	4	3	141
I-joist, BF equivalent	2	54	211	9	6	283
LVL, Cubic Feet	5	10	71	7	10	103
LVL, BF equivalent	86	153	1,134	115	154	1,641
Parallam™, Cubic Feet	0	1	2	1	6	10
Parallam™, BF equivalent	4	19	29	19	96	166
Timberstrand™, Cubic Feet	1	6	92	10	7	116
Timberstrand™, BF equivalent	17	88	1,476	162	112	1,854
Total Lbr. & Eng. Wood, BF equivalent	501	2,175	5,103	1,678	1,931	11,388
TOTAL WOOD USAGE IN ROOF FRAMING (Excluding boards)						
Lumber Equivalent						
Lumber, BF	21,879	63,759	136,447	123,828	51,589	397,503
Glulam, BF	128	45	62	42	214	490
I-joist, LF	362	932	3,633	1,736	1,604	8,268
I-joist, BF equivalent	724	1,865	7,267	3,473	3,208	16,536
LVL, Cubic Feet	5	10	71	7	10	103
LVL, BF equivalent	86	153	1,134	115	154	1,641
Parallam™, Cubic Feet	0	1	2	1	6	10
Parallam™, BF equivalent	4	19	29	19	96	166
Timberstrand™, Cubic Feet	1	6	92	10	7	116
Timberstrand™, BF equivalent	17	88	1,476	162	112	1,854
Total Engineered Wood, BF equivalent	959	2,170	9,967	3,811	3,783	20,689
Total Lbr. & Eng. Wood, BF equivalent	22,838	65,929	146,414	127,639	55,372	418,192

	ATLANTIC PROV.	QUEBEC	TOTAL NEW RESIDENTIAL ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN BEAMS & HEADERS						
BEAMS & HEADERS - BF OR EQUIVALENT						
Lumber Equivalent						
Lumber, BF	3,602	12,345	20,807	17,157	10,088	63,999
Solid Sawn Beams, BF	1,366	7,169	16,522	7,141	6,101	38,300
Glulam, BF	2,019	8,780	21,184	8,029	6,164	46,176
I-joist, LF	1,173	2,768	4,500	2,955	2,164	13,560
I-joist, BF equivalent	2,345	5,535	9,001	5,909	4,329	27,119
LVL, Cubic Feet	307	891	1,264	1,254	587	4,303
LVL, BF equivalent	4,914	14,255	20,222	20,061	9,399	68,851
Parallam™, Cubic Feet	18	61	118	37	68	302
Parallam™, BF equivalent	290	974	1,884	596	1,083	4,827
Timberstrand™, Cubic Feet	5	32	224	159	58	478
Timberstrand™, BF equivalent	78	518	3,576	2,548	933	7,654
Total Engineered Wood, BF equivalent	9,646	30,061	55,868	37,143	21,908	154,627
Total Lbr. & Eng. Wood, BF equivalent	14,615	49,575	93,197	61,441	38,097	256,925
Plywood, SF 3/8" basis equivalent	3	26	167	158	17	370

TOTAL NEW RESIDENTIAL

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN ALL SHEATHING & UNDERLAYMENT						
ALL SHEATHING & UNDERLAYMENT						
Square Feet						
None	5,308	31,864	64,917	34,715	18,873	155,677
Lauan Plywood - 1/4"	92	479	736	493	820	2,621
Plywood - 1/4"	1,434	8	1,054	4,601	6	7,102
Plywood - 3/8"	2,901	6,399	14,193	6,110	5,970	35,574
Plywood - 1/2"	10,758	15,722	42,403	33,726	25,624	128,233
Plywood - 5/8"	13,685	23,927	49,877	54,242	21,527	163,258
Plywood - 3/4"	3,465	8,235	35,188	15,620	8,169	70,677
Plywood - 1 1/8"	131	2,027	1,408	1,998	523	6,088
OSB - 1/4"	101	524	4,436	539	624	6,223
OSB - 3/8"	1,973	9,873	15,186	34,765	10,073	71,871
OSB - 7/16" or 1/2"	12,339	37,513	49,754	74,644	31,111	205,361
OSB - 5/8"	2,997	16,360	31,560	36,869	10,787	98,574
OSB - 3/4"	5,901	16,951	34,400	34,905	13,625	105,782
OSB - 7/8"	132	615	1,989	1,688	539	4,963
OSB - 1"	244	1,235	1,928	1,407	995	5,810
OSB - 1 1/8"	186	945	1,695	1,746	725	5,296
Particleboard - 1/4"	0	0	0	0	0	0
Particleboard - 3/8"	115	598	5,308	907	833	7,762
Particleboard - 1/2"	0	0	0	0	0	0
Particleboard - 5/8"	130	677	1,040	7,077	510	9,434
Particleboard - 3/4"	593	3,080	4,731	3,169	2,319	13,892
Hardboard - 1/4"	193	1,003	4,454	1,032	1,443	8,125
Cementitious Board	2	8	361	82	6	459
Boards - 1" - no spacing	365	1,307	2,070	1,474	598	5,814
Boards - 1" - spaced	14	232	542	76	56	920
Boards - 2"	50	531	1,772	473	321	3,147
Fiberboard - 1/2"	22	1,867	565	115	212	2,781
Gypsum	1,210	59	460	45	97	1,870
Foil Faced 3-ply Kraft Paper - 1/8"	8	44	1,815	45	97	2,009
Foam	92	3,505	6,536	1,158	425	11,717
Fiberbond	227	1,373	1,810	1,212	1,346	5,967
Other	604	6,272	6,479	3,540	2,313	19,209
TOTAL	65,273	193,232	388,667	358,477	160,565	1,166,215
	0	0	0	0	0	
ALL SHEATHING & UNDERLAYMENT VOLUMES	0	0	0	0	0	
Plywood, SF 3/8" Basis	48,333	89,797	229,162	181,784	93,925	643,000
Lauan Plywood, SF 3/8" Basis	62	320	491	329	546	1,747
OSB, SF 3/8" Basis	36,806	128,972	220,749	278,839	103,283	768,649
Particleboard, SF 3/8" Basis	1,518	7,886	16,504	19,042	6,320	51,270
Hardboard, SF 3/8" Basis	129	669	2,969	688	962	5,417
Foam, SF 3/8" str'l panel basis equivalent	14,899	24,265	46,630	20,941	9,838	116,573
Other, SF 3/8" str'l panel basis equivalent	3,015	13,911	17,404	8,658	6,317	49,304
Total Panel, 3/8" str'l pn'l basis equiv.	104,760	265,819	533,910	510,281	221,191	1,635,961
Boards, BF	473	2,485	5,885	2,457	1,267	12,567

	ATLANTIC PROV.	QUEBEC	TOTAL NEW RESIDENTIAL ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FLOOR SHEATHING						
FLOOR SHEATHING						
SF of 1st & 2nd Story Floor Area						
None - Slab or Stress Skin Panel	1,864	8,181	16,996	11,217	8,525	46,782
Plywood - 1/2"	361	1,086	2,007	1,764	1,176	6,394
Plywood - 5/8"	3,483	8,593	10,644	8,402	9,704	40,826
Plywood - 3/4"	2,985	6,272	28,025	14,106	6,214	57,602
Plywood - 1 1/8"	131	2,027	1,408	1,998	523	6,088
OSB - 7/16" OR 1/2"	102	492	1,198	3,626	445	5,863
OSB - 5/8"	815	5,623	8,090	8,709	1,986	25,224
OSB - 3/4"	5,613	16,235	32,530	34,708	13,417	102,503
OSB - 7/8"	132	615	1,989	1,688	539	4,963
OSB - 1"	244	1,235	1,928	1,407	995	5,810
OSB - 1 1/8"	186	945	1,695	1,746	725	5,296
Boards - 1"	111	463	1,426	1,329	366	3,694
Boards - 2"	9	40	90	251	34	425
Other	524	2,706	4,319	3,111	1,999	12,658
TOTAL	16,560	54,511	112,346	94,063	46,648	324,128
FLOOR SHEATHING VOLUMES						
Plywood, SF 3/8" basis	12,651	34,394	80,692	50,562	31,739	210,038
OSB, SF 3/8" basis	14,237	50,060	95,008	101,695	36,823	297,824
Other, SF 3/8" str'l panel basis equivalent	1,051	5,338	8,658	6,191	3,895	25,132
Total Panel, 3/8" str'l pn'l basis equiv.	27,939	89,792	184,358	158,448	72,456	532,994
Boards, BF	128	543	1,606	1,832	434	4,544

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	TOTAL NEW RESIDENTIAL CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN WALL SHEATHING						
WALL SHEATHING						
SF of Exterior Wall						
None	3,357	20,525	46,853	23,032	9,899	103,666
Plywood - 3/8"	790	2,280	4,338	2,679	1,142	11,229
Plywood - 1/2"	6,597	2,973	10,956	9,172	9,650	39,348
Plywood - 5/8"	637	368	687	8,764	503	10,960
Plywood - 3/4"	299	158	1,765	162	663	3,046
OSB - 3/8"	1,835	9,093	14,084	32,660	9,533	67,206
OSB - 7/16" OR 1/2"	6,979	19,419	28,436	36,343	16,921	108,097
OSB - 5/8"	57	571	2,685	305	350	3,968
OSB - 3/4"	8	44	787	45	97	981
Fiberboard - 1/2"	22	1,867	565	115	212	2,781
Gypsum	1,210	59	460	45	97	1,870
Foil Faced 3-ply Kraft Paper - 1/8"	8	44	1,815	45	97	2,009
Foam	92	3,505	6,536	1,158	425	11,717
Other	80	3,429	2,160	429	314	6,413
TOTAL	21,973	64,334	122,127	114,955	49,901	373,290
Foam as a Second Layer of Sheathing, SF 3/8" basis	14,756	18,261	28,344	18,139	9,278	88,778
WALL SHEATHING VOLUMES						
Plywood, SF 3/8" basis	11,246	7,174	23,621	29,838	16,172	88,050
OSB, SF 3/8" basis	11,253	36,024	58,046	81,716	32,871	219,910
Foam, SF 3/8" str'l panel basis equivalent	14,899	24,265	46,630	20,941	9,838	116,573
Other, SF 3/8" str'l panel basis equivalent	1,726	6,686	6,404	783	900	16,499
Total Panel, 3/8" str'l pn'l basis equiv.	39,123	74,149	134,701	133,278	59,781	441,033
Boards, BF	0	0	0	0	0	0

	ATLANTIC PROV.	QUEBEC	TOTAL NEW RESIDENTIAL ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN ROOF SHEATHING						
ROOF SHEATHING						
SF of Roof Area						
None	87	3,158	1,068	466	450	5,229
Plywood - 3/8"	75	390	5,986	402	2,126	8,980
Plywood - 1/2"	3,690	10,976	28,559	21,234	14,186	78,645
Plywood - 5/8"	9,440	13,809	35,360	36,110	10,512	105,231
Plywood - 3/4"	89	1,326	4,662	475	473	7,025
OSB - 7/16" or 1/2"	5,258	17,602	20,120	34,071	13,745	90,796
OSB - 5/8"	1,995	9,489	19,746	20,777	7,940	59,948
OSB - 3/4"	279	673	1,083	152	111	2,298
Boards - 1" - no spacing	255	844	645	145	231	2,120
Boards - 1" - spaced	14	232	542	76	56	920
Boards - 2"	41	491	1,682	221	287	2,722
Other	0	137	0	0	0	137
TOTAL	21,224	59,129	119,451	114,129	50,119	364,051
ROOF SHEATHING VOLUMES						
Plywood, SF 3/8" Basis	20,907	40,693	112,321	89,846	39,508	303,274
OSB, SF 3/8" Basis	10,893	40,631	61,903	80,361	31,784	225,572
Other, SF 3/8" str'l panel basis equivalent	0	205	0	0	0	205
Total Panel, 3/8" str'l pn'l basis equiv.	31,800	81,528	174,224	170,207	71,292	529,050
Boards, BF	345	1,942	4,279	626	834	8,024

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	TOTAL NEW RESIDENTIAL CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN UNDERLAYMENT						
UNDERLAYMENT MATERIAL						
SF of Floor Area						
Lauan Plywood - 1/4"	92	479	736	493	820	2,621
OSB - 1/4"	101	524	4,436	539	624	6,223
OSB - 3/8"	138	780	1,101	2,105	540	4,665
OSB - 7/16" OR 1/2"	0	0	0	605	0	605
OSB - 5/8"	130	677	1,040	7,077	510	9,434
OSB - 3/4"	0	0	0	0	0	0
Plywood - 1/4"	1,434	8	1,054	4,601	6	7,102
Plywood - 3/8"	2,036	3,729	3,869	3,029	2,702	15,365
Plywood - 1/2"	110	686	881	1,557	612	3,846
Plywood - 5/8"	124	1,157	3,186	967	807	6,241
Plywood - 3/4"	92	479	736	877	820	3,004
Particleboard - 1/4"	0	0	0	0	0	0
Particleboard - 3/8"	115	598	5,308	907	833	7,762
Particleboard - 1/2"	0	0	0	0	0	0
Particleboard - 5/8"	130	677	1,040	7,077	510	9,434
Particleboard - 3/4"	593	3,080	4,731	3,169	2,319	13,892
Hardboard - 1/4"	193	1,003	4,454	1,032	1,443	8,125
Cementitious Board	2	8	361	82	6	459
Fiberbond	227	1,373	1,810	1,212	1,346	5,967
TOTAL	5,517	15,258	34,744	35,331	13,896	104,746
UNDERLAYMENT VOLUMES						
Plywood, SF 3/8" Basis	3,529	7,536	12,528	11,537	6,506	41,637
Lauan Plywood, SF 3/8" Basis	62	320	491	329	546	1,747
OSB, SF 3/8" Basis	422	2,258	5,792	15,067	1,805	25,344
Particleboard, SF 3/8" Basis	1,518	7,886	16,504	19,042	6,320	51,270
Hardboard, SF 3/8" Basis	129	669	2,969	688	962	5,417
Other	238	1,682	2,342	1,684	1,522	7,468
Total Panel, 3/8" str'l pn'l basis equiv.	5,898	20,349	40,627	48,347	17,662	132,884

	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	TOTAL NEW RESIDENTIAL CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN FOUNDATIONS						
WOOD FOUNDATION SYSTEMS						
Lumber - Treated, 2 x 6, BF	123	608	1,125	1,009	446	3,311
Lumber - Treated, 2 x 8, BF	369	1,825	3,374	3,027	1,339	9,933
Plywood - Treated, SF 3/8" Basis	518	2,561	4,733	4,246	1,878	13,936
MASONRY FOUNDATIONS						
Sill Plates - 2 x 6 Treated, BF	1,105	3,090	5,448	5,585	2,280	17,508
Posts - Treated, BF	24	68	121	124	50	387
Furring for Precast - Treated, BF	23	113	204	129	230	699
TOTAL - Treated Lumber, BF	1,645	5,704	10,271	9,874	4,345	31,839
TOTAL - Treated Plywood, SF 3/8" Basis	518	2,561	4,733	4,246	1,878	13,936

	TOTAL NEW RESIDENTIAL					
	ATLANTIC PROV.	QUEBEC	ONTARIO	PRAIRIE PROV.	BRITISH COLUMBIA	CANADA TOTAL
			All Data in Thousands			
DETAILS OF WOOD USAGE IN DECKS & PORCHES						
DECKS						
Lumber - Regular, BF						
2x2s	27	156	531	146	423	1,283
2x4s	18	104	353	97	281	853
2x6s	13	78	265	73	212	641
Boards	286	1,275	3,259	1,223	2,006	8,050
Posts	18	104	353	97	281	853
Lumber - Treated, BF						
2x2s	432	1,037	1,610	845	546	4,470
2x4s	2,164	5,135	10,078	10,970	6,112	34,459
2x6s	1,094	2,596	5,070	5,465	3,049	17,275
2x8s	1,073	2,539	5,213	6,163	3,393	18,382
2x10s	1,463	3,462	7,109	8,405	4,627	25,066
2x12s	488	1,154	2,370	2,802	1,542	8,355
Boards	1,148	2,111	3,064	3,544	1,571	11,439
Posts	535	1,397	2,428	1,891	968	7,220
Subtotal - Lumber, BF	362	1,716	4,762	1,637	3,204	11,681
Subtotal - Treated Lumber, BF	8,397	19,432	36,942	40,085	21,809	126,665
Total, BF	8,759	21,148	41,703	41,722	25,013	138,346
Deck Surfaces						
Lumber - Regular, BF	286	1,275	3,259	1,223	2,006	8,050
Lumber - Treated, BF	1,148	2,111	3,064	3,544	1,571	11,439
PVC / Vinyl / Fiberglass, BF	111	246	368	891	862	2,477
Wood / Plastic composite, BF	54	154	1,083	3,534	620	5,445
Total Deck Surface Material, BF	1,600	3,786	7,774	9,191	5,060	27,412
PORCHES						
Lumber - Regular, BF						
2x2s (Railings)	28	148	888	152	229	1,445
2x4s (Porch Roofs, Breezeways, & Railings)	1,285	2,842	6,964	5,033	2,889	19,012
2x6s (Railings)	14	74	444	76	115	723
2x8s (Porch Floors & Breezeways)	1,792	3,974	9,189	7,120	3,467	25,541
Boards	299	931	3,568	2,666	949	8,413
Posts	822	1,706	3,648	2,393	1,520	10,090
Lumber - Treated, BF						
2x2s (Railings)	211	301	233	132	97	974
2x4s (Porch Roofs, Breezeways, & Railings)	141	200	155	88	65	648
2x6s (Railings)	106	151	117	66	49	487
Boards	754	1,443	1,817	1,499	963	6,476
Posts	141	200	155	88	65	648
Subtotal - Lumber, BF	4,241	9,674	24,701	17,438	9,169	65,223
Subtotal - Treated Lumber, BF	1,352	2,295	2,477	1,871	1,237	9,234
Total, BF	5,594	11,969	27,178	19,310	10,406	74,457
Porch Surfaces						
Lumber - Regular, BF	299	931	3,568	2,666	949	8,413
Lumber - Treated, BF	754	1,443	1,817	1,499	963	6,476
Plastic and Composites, BF	112	27	103	552	370	1,165
Concrete / Brick / Stone / Tiles, BF	104	311	1,098	406	668	2,586
Total Porch Surface Material, BF	1,270	2,712	6,586	5,123	2,950	18,640