

2003



**Survey of Household
Energy Use (SHEU)**

**Detailed
Statistical Report**



Natural Resources
Canada

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Foreword

In 2004, Statistics Canada conducted a Survey of Household Energy Use (SHEU) on behalf of the Office of Energy Efficiency (OEE) of Natural Resources Canada (NRCan). The survey ties in directly with the OEE's mandate, which is to strengthen and expand Canada's commitment to energy efficiency in order to help address the challenges of climate change. The results of this survey will also be used to assess the effectiveness of existing energy efficiency programs and to develop new ones.

The survey collected data for the 2003 calendar year reference period, and is referred to in this report as 2003 SHEU. Because the data collection occurred in 2004, Statistics Canada refers to this survey as 2004 SHEU.

The 2003 SHEU builds on the surveys of the same name that were undertaken for 1993 and 1997. Its goal is to gather data on the energy and physical characteristics of private dwellings in Canada and on the household use of energy resources.

This report was prepared by Vincent Fecteau and Glen Ewaschuk, of the Demand Policy and Analysis Division of the OEE. Indrani Hulan and Jean-François Bilodeau supervised the project, and David McNabb provided project leadership.

A summary report presenting the main survey findings is also available. This report is entitled *2003 Survey of Household Energy Use – Summary Report*.

To learn more about this survey and the topics discussed in this document, please contact:

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How to interpret the tables

The table shown below is typical of the tables presented in this report. This statistical report contains representative data on the SHEU's target population with regard to number of dwellings, dwelling area, energy consumption and energy intensity.

The target population was composed of all dwellings that were occupied as primary residences in the 10 Canadian provinces¹ and that fit into one of the following categories: single detached house, double/row house, duplex,² mobile home or apartment (dwelling in a building with no more than four storeys).

Specifically excluded from the survey's coverage were dwellings not mentioned above, dwellings located in a First Nation community or on a military base, businesses, institutions, demolished dwellings, dwellings under construction, seasonal or secondary residences, and dwellings occupied by someone who works full-time within the Canadian Armed Forces.

As can be seen in the sample table, the estimate for each category is shown in the left column. The number of dwellings is expressed in units; energy consumption, in gigajoules (GJ); heated area, in square metres (m²); and intensity of each energy source, in gigajoules per square metre (GJ/m²). Data on the number of dwellings, surface area and energy consumption are rounded to the nearest integer.

Consequently, the sum of the data may differ from the total indicated and may vary slightly from one table to the next.

The letters used in the right column of the statistical tables indicate the degree of sampling error or the coefficient of variation for estimates. The letter "A" indicates that the estimate has a low coefficient of variation and is of acceptable quality. The letter "M" indicates a higher coefficient. Estimates with an "M" are precise enough for certain uses, but their use should be accompanied with a cautionary note. A "U" indicates that the estimate's coefficient of variation exceeds 33.3 percent, or that the size of the sample on which the estimate is based had fewer than 30 units. We did not publish these estimates because they might present too great a sampling error or because they had to be omitted in order to comply with the confidentiality requirements of the Statistics Act.

Sample table

Total number of dwellings by province

	Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
Single detached house	7,191,540	A	662,335	A	1,513,497	A	2,724,438	A	1,381,219	A	910,051	A
Double/row house	1,721,416	A	94,150	A	469,193	A	707,777	A	246,848	A	203,449	A
Apartment	2,061,257	A	113,063	A	962,222	A	419,965	A	218,054	A	347,952	A
Mobile home	195,176	A	30,794	M		U		U	56,642	A		U

¹ The territories are not included in the target population.

² Duplexes are included in the double/row house category in this report.

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SECTION

1

Characteristics of Households

1.1

Location and characteristics of households

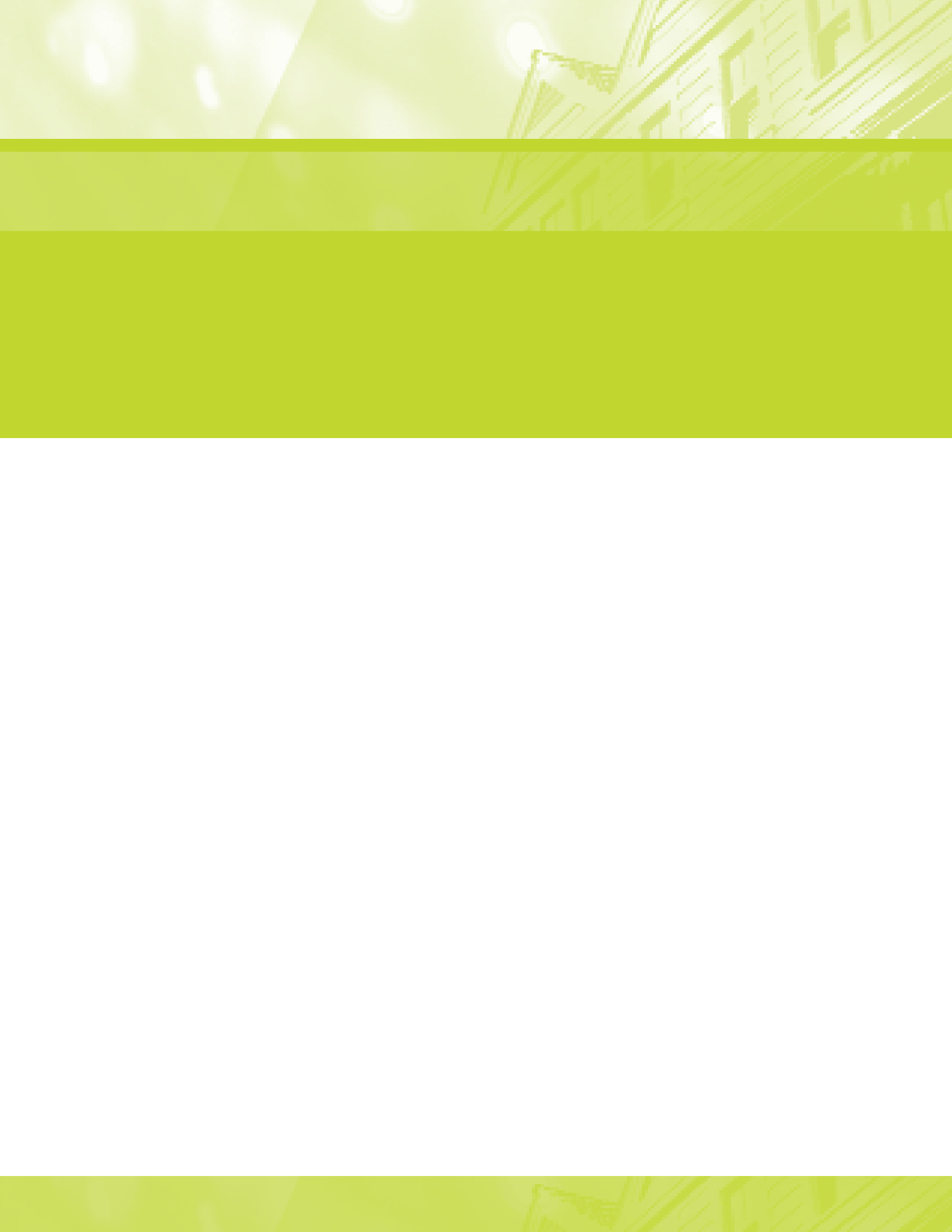
BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Region				
Atlantic	662,335 A	94,150 A	113,063 A	30,794 M
Quebec	1,513,497 A	469,193 A	962,222 A	U
Ontario	2,724,438 A	707,777 A	419,965 A	U
Prairies	1,381,219 A	246,848 A	218,054 A	56,642 A
British Columbia	910,051 A	203,449 A	347,952 A	U
Canada	7,191,540 A	1,721,416 A	2,061,257 A	195,176 A
Type of dwelling				
Single detached				
Double/row house				
Apartment				
Mobile home				
Construction period				
Before 1946	1,051,184 A	264,568 A	278,932 A	U
1946-1969	2,101,713 A	382,427 A	622,187 A	U
1970-1979	1,354,912 A	400,346 A	499,387 A	96,481 A
1980-1989	1,270,850 A	329,945 A	376,070 A	U
1990-2003	1,412,882 A	344,130 A	284,682 A	U
Type of population centre				
Urban	5,469,769 A	1,643,598 A	2,014,187 A	99,496 A
Rural	1,721,771 A	U	U	95,681 A
Household income				
Less than \$20,000	450,275 A	151,969 A	507,862 A	U
\$20,000 to \$39,999	1,000,173 A	343,705 A	575,731 A	52,795 M
\$40,000 to \$59,999	1,100,674 A	333,840 A	279,495 A	U
\$60,000 to \$79,999	1,006,100 A	269,326 A	169,690 A	U
\$80,000 or more	3,184,592 A	571,641 A	463,311 A	65,143 M
Not stated	449,727 A	U	U	U
Occupation mode				
Owner	6,759,357 A	1,047,891 A	329,136 A	176,814 A
Renter	432,183 A	672,295 A	1,732,121 A	U
Not stated	U	U	U	U
Household size				
1 member	1,011,567 A	340,048 A	1,046,801 A	58,026 M
2 members	2,686,354 A	573,132 A	643,458 A	81,610 A
3 members	1,157,218 A	323,390 A	211,695 A	U
4 members or more	2,336,402 A	484,845 A	159,303 A	U

Table 1.1

BY REGION

Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
7,191,540 A	662,335 A	1,513,497 A	2,724,438 A	1,381,219 A	910,051 A
1,721,416 A	94,150 A	469,193 A	707,777 A	246,848 A	203,449 A
2,061,257 A	113,063 A	962,222 A	419,965 A	218,054 A	347,952 A
195,176 A	30,794 M	U	U	56,642 A	U
1,594,684 A	189,263 A	470,458 A	552,101 A	261,133 A	121,729 M
3,132,583 A	169,864 A	845,798 A	1,241,774 A	520,653 A	354,494 A
2,351,125 A	220,926 A	668,698 A	692,330 A	455,559 A	313,612 A
2,012,074 A	155,741 A	553,988 A	673,477 A	303,863 A	325,005 A
2,078,923 A	164,548 A	445,302 A	722,350 A	361,555 A	385,169 A
9,227,050 A	554,652 A	2,469,469 A	3,370,283 A	1,529,374 A	1,303,271 A
1,942,339 A	345,690 A	514,775 A	511,748 A	373,389 A	196,738 A
1,130,290 A	135,797 A	367,810 A	305,242 A	147,665 A	173,776 A
1,972,405 A	185,860 A	652,714 A	573,645 A	325,973 A	234,212 A
1,757,429 A	172,531 A	457,338 A	540,717 A	349,785 A	237,058 A
1,452,013 A	82,748 A	329,375 A	575,637 A	260,603 A	203,650 A
4,284,687 A	290,648 A	1,096,672 A	1,629,561 A	689,932 A	577,874 A
572,565 A	32,758 M	80,335 M	257,229 A	128,805 A	73,439 M
8,313,197 A	692,977 A	1,869,283 A	3,157,649 A	1,529,264 A	1,064,024 A
2,854,961 A	207,365 A	1,114,961 A	724,382 A	373,499 A	434,754 A
U	U	U	U	U	U
2,456,442 A	204,153 A	709,427 A	754,443 A	392,832 A	395,587 A
3,984,555 A	347,217 A	1,181,313 A	1,235,263 A	675,483 A	545,279 A
1,715,445 A	157,424 A	421,125 A	606,297 A	314,057 A	216,542 A
3,012,948 A	191,548 A	672,379 A	1,286,028 A	520,391 A	342,602 A





SECTION

2

Thermal Envelope

2.1

Number of storeys and apartments

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Number of storeys in dwelling (excluding basement)				
One storey	3,865,318 A	597,266 A	U	189,785 A
One and a half storeys	772,042 A	90,422 M	U	U
Two storeys	2,060,899 A	893,632 A	U	U
More than two storeys	156,845 A	95,544 M	U	U
Split level or other	336,436 A	U	U	U
Number of storeys in building (excluding indoor parking)				
One storey	U	U	U	U
Two storeys	U	U	418,570 A	U
More than two storeys	U	U	1,605,431 A	U
Number of apartments in building				
2 to 10	U	U	920,015 A	U
11 to 20	U	U	312,423 A	U
21 to 50	U	U	548,803 A	U
51 or more	U	U	258,858 A	U
Don't know	U	U	U	U

Table 2.2

BY REGION

Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
463,526 A	U	174,074 A	U	U	190,330 A
1,597,730 A	109,293 A	788,148 A	365,679 A	176,989 A	157,622 A
199,221 A	U	128,452 M	U	U	U
264,305 A	U	U	U	U	177,252 A

2.3 **Basement**

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Type of foundation in house				
Basement	5,849,754 A	1,281,779 A	U	U
Crawl space	833,270 A	139,908 A	U	U
Concrete slabs	658,333 A	275,093 A	U	U
Pillars	78,030 M	U	U	55,163 M
Other	116,139 A	U	U	U
No foundation	130,707 M	U	U	61,481 A
Basements / crawl spaces usually heated during the heating season				
Yes	5,085,923 A	1,074,405 A	U	U
No	1,374,719 A	312,876 A	U	U
Don't know	U	U	U	U
Number of insulated outside walls in basements / crawl spaces				
0	1,215,743 A	278,144 A	U	U
1	163,139 A	U	U	U
2	304,386 A	154,362 M	U	U
3	440,380 A	266,324 A	U	U
4	4,007,569 A	491,512 A	U	U
Difficult to answer because shape of house is irregular	133,599 M	U	U	U
Don't know	196,480 A	125,877 M	U	U

Table 2.3

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
7,139,542	A	623,332	A	1,643,400	A	2,927,273	A	1,386,050	A	559,488	A
1,012,963	A	81,886	A	154,041	M	358,158	A	108,013	A	310,866	A
959,836	A	36,938	A	191,575	A	267,166	A	165,776	A	298,381	A
138,495	A		U		U		U		U		U
170,067	A		U		U		U		U		U
130,707	M	29,339	M		U		U		U		U
6,171,949	A	463,517	A	1,587,174	A	2,365,888	A	1,248,100	A	507,270	A
1,723,767	A	215,142	A	183,294	A	782,406	A	208,780	A	334,145	A
	U		U		U		U		U		U
1,517,779	A	231,963	A	241,728	A	614,858	A	272,647	A	156,582	A
225,745	A	37,959	M		U		U		U		U
458,748	A		U		U	248,866	A	72,886	A		U
708,397	A	48,944	A	146,336	A	338,343	A	108,553	A	66,221	M
4,520,682	A	311,958	A	1,162,540	A	1,669,121	A	905,967	A	471,097	A
143,725	A		U		U		U		U		U
322,357	A		U		U		U	55,901	M	69,200	M

2.4 Heated area

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Heated area of basement				
56 square metres or less (600 square feet or less)	847,319 A	429,990 A	U	U
56 to 93 square metres (601 to 1,000 square feet)	1,827,656 A	402,579 A	U	U
93 to 139 square metres (1,001 to 1,500 square feet)	1,714,902 A	163,892 M	U	U
139 or more square metres (1,501 or more square feet)	480,352 A	U	U	U
Heated area of dwelling				
56 square metres or less (600 square feet or less)	221,245 A	113,183 M	630,036 A	U
56 to 93 square metres (601 to 1,000 square feet)	1,619,873 A	483,828 A	965,964 A	102,862 A
93 to 139 square metres (1,001 to 1,500 square feet)	2,827,916 A	793,196 A	322,733 A	68,426 A
139 to 186 square metres (1,501 to 2,000 square feet)	1,468,244 A	242,692 A	U	U
186 to 232 square metres (2,001 to 2,500 square feet)	497,079 A	U	U	U
232 or more square metres (2,501 or more square feet)	557,183 A	U	U	U
Heated area of building (excluding indoor parking)				
167 square metres or less (1,800 square feet or less)	U	U	U	U
167 to 279 square metres (1,801 to 3,000 square feet)	U	192,334 A	361,543 A	U
279 to 418 square metres (3,001 to 4,500 square feet)	U	U	161,150 A	U
418 to 557 square metres (4,501 to 6,000 square feet)	U	U	187,492 A	U
558 or more square metres (6,001 or more square feet)	U	U	1,251,657 A	U

Table 2.4

BY REGION					
Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
1,280,084 A	106,577 A	242,219 A	630,145 A	222,605 A	U
2,234,344 A	155,309 A	704,395 A	774,010 A	431,346 A	169,284 A
1,878,794 A	150,243 A	446,453 A	639,553 A	483,018 A	159,527 A
539,425 A	39,050 M	133,044 M	243,757 A	80,032 A	U
978,692 A	68,990 A	429,837 A	261,461 A	129,201 M	89,203 M
3,172,527 A	311,997 A	1,105,823 A	694,243 A	627,132 A	433,333 A
4,012,272 A	324,257 A	920,708 A	1,514,290 A	755,236 A	497,781 A
1,779,867 A	124,129 A	339,196 A	784,415 A	298,580 A	233,547 A
566,289 A	31,853 M	89,470 M	289,940 A	U	101,448 M
659,742 A	U	99,210 M	337,683 A	U	144,696 A
173,550 M	U	101,077 M	U	U	U
553,877 A	U	363,093 A	U	U	U
274,034 M	U	172,527 A	U	U	U
U	U	129,596 A	U	U	U
1,262,593 A	83,489 A	424,439 A	253,977 A	177,204 A	323,484 A

2.5 Garage

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Dwellings with a garage				
Yes	4,184,374 A	625,833 A	U	U
No	3,007,166 A	1,095,583 A	U	170,922 A
Garage attached to dwelling				
Yes	2,945,380 A	488,676 A	U	U
No	1,238,994 A	137,157 M	U	U
Insulated garage				
Yes	2,137,187 A	297,160 A	U	U
No	2,002,967 A	320,345 A	U	U
Don't know	U	U	U	U
Garage usually heated during heating season				
Yes	519,701 A	65,378 M	U	U
No	3,664,673 A	560,455 A	U	U
Type of garage				
One-car garage	1,291,096 A	420,024 A	U	U
Two-car garage	1,715,321 A	U	U	U
Three-or-more-car garage	121,500 M	U	U	U
Don't know	U	U	U	U

Table 2.5

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
4,834,461	A	235,532	A	644,634	A	2,235,613	A	1,045,320	A	673,362	A
4,273,671	A	551,747	A	1,377,388	A	1,226,453	A	639,389	A	478,695	A
3,437,598	A	132,051	A	444,730	A	1,763,050	A	552,480	A	545,287	A
1,396,863	A	103,480	A	199,904	A	472,563	A	492,840	A	128,075	A
2,441,583	A	123,128	A	420,449	A	859,816	A	598,326	A	439,865	A
2,340 330	A	111,833	A	222,029	A	1,342,116	A	442,573	A	221,778	A
	U		U		U		U		U		U
587,820	A		U	229,128	A	139,122	A	145,426	A		U
4,246,641	A	203,588	A	415,507	A	2,096,491	A	899,893	A	631,162	A
1,714,662	A	82,127	A	395,396	A	846,590	A	169,809	A	220,741	A
1,807,767	A	56,790	A	103,091	M	914,732	A	415,991	A	317,163	A
123,621	M		U		U		U		U		U
	U		U		U		U		U		U

Table 2.6

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
6,923,010	A	643,793	A	1,503,085	A	2,580,807	A	1,339,595	A	855,730	A
2,134,918	A	143,486	A	502,183	A	865,561	A	341,030	A	282,659	A
	U		U		U		U		U		U
6,115,777	A	558,921	A	1,362,358	A	2,303,295	A	1,150,092	A	741,111	A
523,972	A	72,564	A	118,994	M	157,332	M	106,031	M	69,052	A
333,465	A		U		U	135,878	M		U		U

2.7 Window upgrades

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Number of windows replaced or added in 2003				
0	6,032,628 A	1,449,227 A	1,680,544 A	156,811 A
1 or 2	468,493 A	88,224 M	U	U
3 or 4	179,762 A	U	U	U
5 to 10	264,538 A	U	U	U
11 to 50	81,356 M	U	U	U
51 or more	U	U	U	U
Don't know	164,763 A	122,466 M	130,605 M	U
Type of windows installed in 2003				
Low-E coating gas-filled double pane	290,652 A	U	U	U
Gas-filled double pane	229,273 A	U	U	U
Standard double pane	327,535 A	U	104,454 M	U
Low-E coating gas-filled triple pane	U	U	U	U
Gas-filled triple pane	U	U	U	U
Standard triple pane	U	U	U	U
Don't know	184,644 A	126,344 M	141,606 M	U
Improvements made to the caulking or weatherstripping of windows in 2003				
Yes	1,124,223 A	177,933 A	178,357 A	U
No	6,064,120 A	1,543,483 A	1,854,697 A	166,166 A
Don't know	U	U	U	U
Number of windows in which the caulking or weatherstripping was improved in 2003				
1 or 2	249,834 A	U	78,779 M	U
3 or 4	286,076 A	U	U	U
5 or more	570,640 A	93,583 M	U	U
Don't know	U	U	U	U
Plastic film put on windows during the heating season				
Yes	956,369 A	260,837 A	193,927 A	45,460 M
No	6,235,171 A	1,460,579 A	1,863,909 A	149,716 A
Don't know	U	U	U	U
Condensation on the inside surfaces of windows				
Yes, on most of the windows	701,658 A	201,846 A	414,775 A	U
Yes, on some windows	2,193,011 A	585,065 A	531,550 A	69,332 A
No	4,296,871 A	934,505 A	1,114,931 A	99,569 A
Air leaks or drafts around windows				
Yes	1,930,413 A	734,198 A	905,315 A	58,707 A
No	5,253,602 A	984,614 A	1,155,942 A	136,469 A
Don't know	U	U	U	U

Table 2.7

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
9,319,210	A	755,642	A	2,466,965	A	3,241,218	A	1,612,918	A	1,242,466	A
642,630	A	65,402	A	169,591	A	238,624	A	84,155	A	84,858	M
244,725	A		U		U		U		U	41,616	M
378,003	A		U	118,242	A	111,988	M	72,342	M		U
144,673	A		U		U		U		U		U
	U		U		U		U		U		U
432,233	A		U	118,868	M	159,154	M	76,132	M	62,568	M
352,785	A		U		U	154,988	A		U		U
348,274	A		U	138,388	A	130,930	M		U		U
511,032	A	66,218	A	165,607	A	125,663	M	62,266	M	91,277	M
	U		U		U		U		U		U
	U		U		U		U		U		U
69,558	M		U		U		U		U		U
466,995	A		U	124,309	M	172,014	M	82,578	M	66,697	M
1,509,524	A	134,038	A	381,079	A	652,481	A	217,147	A	124,780	A
9,628,465	A	766,304	A	2,599,177	A	3,210,117	A	1,677,638	A	1,375,229	A
	U		U		U		U		U		U
372,011	A	51,142	A	108,001	M	119,494	M	60,884	M		U
372,400	A		U		U	168,092	M	57,541	M		U
742,429	A	52,298	A	187,188	A	344,714	A	97,276	A	60,954	M
	U		U		U		U		U		U
1,456,594	A	92,630	A	431,189	A	495,192	A	337,405	A	100,178	A
9,709,375	A	807,712	A	2,553,055	A	3,386,839	A	1,565,358	A	1,396,411	A
	U		U		U		U		U		U
1,344,555	A	74,860	A	442,433	A	365,808	A	305,762	A	155,692	A
3,378,958	A	289,995	A	989,427	A	1,194,971	A	559,576	A	344,990	A
6,445,876	A	535,487	A	1,552,384	A	2,321,253	A	1,037,425	A	999,327	A
3,628,633	A	336,494	A	914,282	A	1,245,932	A	775,136	A	356,789	A
7,530,626	A	562,396	A	2,069,962	A	2,628,735	A	1,127,627	A	1,141,905	A
	U		U		U		U		U		U

2.8 Dwelling upgrades

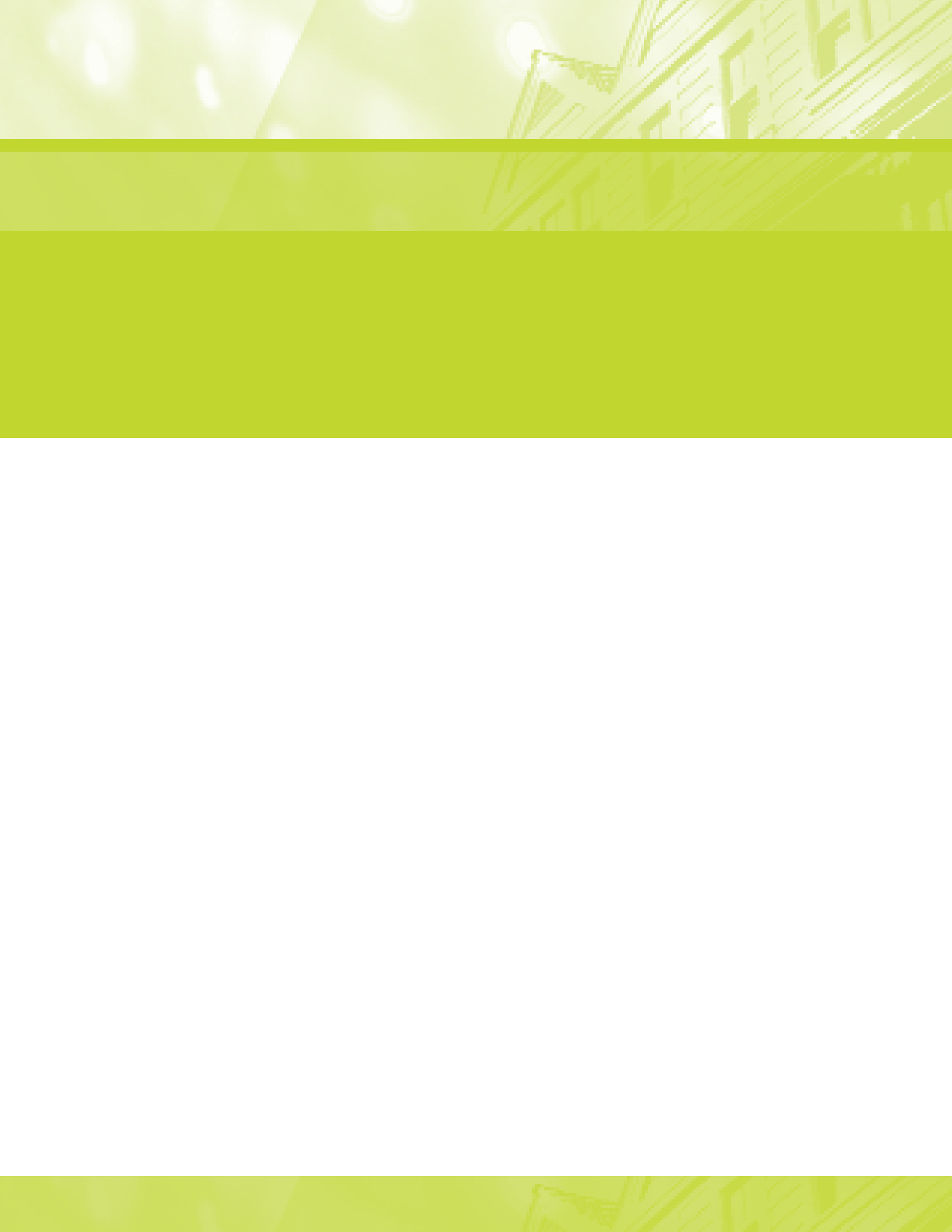
BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Improvements made to dwellings to reduce energy use in 2003				
The roof structure or surface	403,639 A	U	156,168 M	U
The exterior wall siding	176,942 A	U	U	U
The insulation of the roof or the attic	178,296 A	U	U	U
The insulation of the basement or crawl space walls	241,140 A	U	U	U
The insulation of any exterior walls (excluding the basement)	141,223 A	U	U	U
The foundation	U	U	U	U
The heating equipment	265,790 A	U	U	U
The ventilation or air-conditioning equipment	112,295 A	U	U	U
None of the above	5,905,611 A	1,360,202 A	1,599,895 A	144,057 A
Don't know	163,382 A	121,266 M	136,783 M	U
Planning to make improvements in 2004 to reduce energy use				
The roof structure or surface	392,116 A	U	85,152 M	U
The exterior wall siding	181,267 A	U	U	U
The insulation of the roof or the attic	241,969 A	U	U	U
The insulation of the basement or crawl space walls	215,235 A	U	U	U
The insulation of any exterior walls (excluding the basement)	207,926 A	U	U	U
The foundation	U	U	U	U
The heating equipment	211,438 A	U	U	U
The ventilation or air-conditioning equipment	79,471 M	U	U	U
None of the above	5,734,451 A	1,349,894 A	1,608,120 A	146,487 A
Don't know	195,695 A	130,362 A	183,029 A	U
Reason for not making or planning on making any improvements				
No improvements necessary	3,448,908 A	809,116 A	914,931 A	65,922 M
Improvements too costly	901,031 A	190,774 A	233,407 A	U
Not aware of government financial aid or assistance	U	U	U	U
No government financial aid or assistance	U	U	U	U
Don't have time	67,655 M	U	U	U
Other	471,231 A	152,990 M	208,258 A	U
Don't know	165,242 A	118,816 M	135,300 A	U

Table 2.8

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
638,545	A	69,826	A	163,482	A	263,256	A	65,914	M	76,067	M
286,091	A	23,986	M	126,986	M		U		U		U
248,241	A		U		U		U		U		U
338,096	A		U	98,062	M	149,199	M		U		U
214,862	A		U		U		U		U		U
81,517	M		U		U		U		U		U
425,166	A	37,842	M	78,842	M	205,279	M		U	44,838	M
186,964	A		U		U		U		U		U
9,009,765	A	712,584	A	2,444,626	A	3,011,471	A	1,601,425	A	1,239,658	A
435,830	A		U	134,699	A	147,860	M		U	69,396	M
551,373	A	58,321	A	99,327	M	232,419	A	84,490	M	76,817	M
294,870	A	39,790	M		U		U		U		U
344,625	A		U		U		U		U		U
283,795	A	37,160	M		U		U		U		U
272,256	A		U		U		U		U		U
75,893	M		U		U		U		U		U
355,221	A		U		U	156,484	M	55,815	M		U
111,252	A		U		U		U		U		U
8,838,952	A	695,742	A	2,425,349	A	3,023,054	A	1,533,662	A	1,161,144	A
523,486	A		U	139,337	A	192,614	M	79,596	M	89,466	M
5,238,876	A	384,499	A	1,481,298	A	1,730,841	A	853,690	A	788,548	A
1,345,613	A	110,060	A	318,328	A	406,168	A	342,001	A	169,056	A
68,853	M		U		U		U		U		U
	U		U		U		U		U		U
117,242	M		U		U		U		U		U
857,987	A	57,795	A	226,656	A	359,736	A	131,048	M	82,752	M
433,757	A		U	130,382	M	148,741	M	69,459	M	68,899	M





SECTION

3

Heating System

3.1 Profile of heating system

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Dwellings with central heating unit or heating unit used by their household only				
Central unit	U	U	759,220 A	U
Dwelling unit	U	160,705 A	1,178,013 A	U
Households with a heat pump				
Yes	306,543 A	U	U	U
No	6,869,752 A	1,675,466 A	1,966,726 A	192,796 A
Don't know	U	U	U	U
Type of heat pump				
Air source	259,765 A	U	U	U
Ground source	U	U	U	U
Don't know	U	U	U	U
Households with a heat pump that is used as a back-up furnace				
Yes	249,142 A	U	U	U
No	57,401 M	U	U	U
Type of main heating equipment				
Furnace with forced air (hot air vents)	4,647,469 A	1,015,557 A	129,676 M	113,405 A
Electric baseboards	1,215,268 A	490,791 A	1,133,699 A	52,040 M
Heating stove (burning wood, pellets, corn, coal, etc.)	365,671 A	U	U	U
Furnace (boiler) with hot water or steam radiators	399,510 A	123,992 M	650,499 A	U
Electric radiant heating	U	U	U	U
Other equipment	221,691 A	U	U	U
Age of main heating equipment				
3 years old or less	912,193 A	189,458 A	140,285 M	U
4 to 5 years old	594,209 A	91,651 M	111,201 M	U
6 to 10 years old	1,567,408 A	336,464 A	298,607 A	61,952 A
11 to 15 years old	1,106,068 A	240,213 A	334,653 A	U
16 to 20 years old	879,781 A	259,830 A	332,345 A	U
21 years old or more	1,592,394 A	419,525 A	594,117 A	52,847 M
Unsure; was there when moved in	U	U	U	U
Don't know	232,944 A	143,843 M	178,544 A	U
Age of furnace with forced air				
3 years old or less	700,942 A	148,476 M	U	U
4 to 5 years old	445,981 A	U	U	U
6 to 10 years old	1,116,150 A	250,867 A	U	U
11 to 15 years old	771,181 A	136,589 M	U	U
16 to 20 years old	585,380 A	155,879 M	U	U
21 years old or more	878,488 A	197,315 A	U	U
Unsure; was there when moved in	136,491 A	U	U	U
Don't know	U	U	U	U

Table 3.1

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
828,456	A	71,090	A	208,006	A		U	164,757	A	170,044	A
1,338,718	A	58,509	A	797,252	A	206,067	A	61,453	M	215,436	A
420,289	A		U	198,872	A	131,120	M		U		U
10,704,739	A	891,653	A	2,785,372	A	3,722,199	A	1,850,115	A	1,455,399	A
	U		U		U		U		U		U
313,172	A		U	195,899	A		U		U		U
	U		U		U		U		U		U
	U		U		U		U		U		U
297,052	A		U	161,405	A		U		U		U
123,236	M		U		U		U		U		U
5,906,108	A	275,951	A	359,834	A	2,959,771	A	1,558,811	A	751,740	A
2,891,798	A	299,802	A	1,830,803	A	319,413	A	85,423	A	356,357	A
396,992	A	77,472	A	178,482	A		U		U	91,297	M
1,174,001	A	189,693	A	312,259	A	312,492	A	183,320	A	176,237	A
86,797	M		U		U		U		U		U
293,404	A		U		U		U		U		U
1,260,287	A	107,373	A	218,922	A	572,381	A	256,599	A	105,013	A
816,267	A	78,787	A	126,761	M	344,688	A	146,599	A	119,432	M
2,264,431	A	207,706	A	451,913	A	926,135	A	351,942	A	326,736	A
1,695,715	A	169,877	A	406,688	A	684,225	A	210,074	A	224,850	A
1,492,548	A	123,979	A	426,181	A	440,813	A	276,476	A	225,099	A
2,658,883	A	176,720	A	959,966	A	608,103	A	513,608	A	400,486	A
	U		U		U		U		U		U
560,968	A	27,783	M	194,941	A	174,565	M	101,113	A	62,565	M
875,523	A	37,205	A		U	502,148	A	239,842	A	59,452	M
544,087	A		U		U	322,357	A	119,296	A	53,904	M
1,424,726	A	85,192	A		U	774,810	A	307,151	A	164,336	A
950,428	A	42,288	A		U	528,270	A	178,960	A	132,976	A
782,731	A	37,070	M		U	358,898	A	237,352	A	117,197	A
1,112,442	A	38,996	A	105,244	M	389,550	A	394,743	A	183,909	A
187,431	A		U		U		U	75,324	M		U
	U		U		U		U		U		U

3.1 Profile of heating system

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Age of furnace with hot water or steam radiators				
3 years old or less	U	U	U	U
4 to 5 years old	U	U	U	U
6 to 10 years old	122,079 M	U	125,761 M	U
11 to 15 years old	50,672 M	U	U	U
16 to 20 years old	U	U	U	U
21 years old or more	91,916 M	U	231,461 A	U
Unsure; was there when moved in	U	U	U	U
Don't know	U	U	U	U
Age of heating stove				
3 years old or less	59,567 M	U	U	U
4 to 5 years old	U	U	U	U
6 to 10 years old	76,289 M	U	U	U
11 to 15 years old	U	U	U	U
16 to 20 years old	U	U	U	U
21 years old or more	U	U	U	U
Unsure; was there when moved in	U	U	U	U
Don't know	U	U	U	U
Age of electric baseboards				
3 years old or less	63,110 M	U	U	U
4 to 5 years old	U	U	U	U
6 to 10 years old	179,733 A	U	137,239 A	U
11 to 15 years old	186,870 A	82,421 M	228,074 A	U
16 to 20 years old	176,142 A	79,263 M	221,227 A	U
21 years old or more	515,720 A	153,856 A	335,050 A	U
Unsure; was there when moved in	U	U	144,216 M	U
Don't know	U	U	U	U
Households with an ENERGY STAR® furnace				
Yes	532,761 A	U	U	U
No	103,538 A	U	U	U
Don't know	121,297 A	U	U	U
Furnace/heating stove uses one or two energy sources				
One source	4,865,980 A	1,077,769 A	726,600 A	130,682 A
Two sources	546,671 A	U	U	U
Hot-air furnace uses one or two energy sources				
One source	4,177,879 A	958,700 A	126,592 M	107,721 A
Two sources	469,590 A	U	U	U
Furnace with hot water or steam radiators uses one or two energy sources				
One source	351,734 A	112,557 M	598,160 A	U
Two sources	U	U	U	U

Table 3.1 (cont. 2/3)

BY REGION

Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
116,437 M	U	U	U	U	U
101,509 M	U	U	U	U	U
259,358 A	48,807 A	U	U	U	U
121,400 M	U	U	U	U	U
146,423 A	U	U	U	U	U
379,393 A	46,463 M	123,616 M	U	81,605 M	U
U	U	U	U	U	U
U	U	U	U	U	U
59,567 M	U	U	U	U	U
U	U	U	U	U	U
100,978 A	U	U	U	U	U
U	U	U	U	U	U
U	U	U	U	U	U
57,462 M	U	U	U	U	U
U	U	U	U	U	U
U	U	U	U	U	U
155,425 A	U	111,996 M	U	U	U
82,898 M	U	U	U	U	U
370,240 A	48,397 A	231,954 A	U	U	76,440 A
502,406 A	66,471 A	271,372 A	U	U	U
482,752 A	54,604 A	316,225 A	U	U	59,873 M
1,032,064 A	76,006 A	679,129 A	119,433 M	U	133,579 A
246,886 A	U	144,146 M	U	U	U
U	U	U	U	U	U
665,691 A	43,322 A	U	387,859 A	158,980 A	51,620 M
139,806 A	U	U	U	U	U
217,302 A	U	U	U	U	U
6,801,030 A	473,606 A	658,769 A	3,119,339 A	1,579,337 A	969,979 A
676,070 A	69,511 A	191,806 A	190,919 A	174,539 A	U
5,370,891 A	229,902 A	234,801 A	2,792,430 A	1,404,011 A	709,747 A
535,216 A	46,049 M	125,033 M	167,340 A	154,800 A	U
1,062,451 A	170,307 A	254,213 A	299,863 A	165,948 A	172,120 A
111,549 M	U	U	U	U	U

3.1 Profile of heating system

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Heating stove uses one or two energy sources				
One source	336,366 A	U	U	U
Two sources	U	U	U	U
Source of energy for hot-air furnace				
Electricity	176,102 A	U	U	U
Natural gas	3,597,487 A	899,581 A	U	72,899 A
Oil	661,067 A	73,048 M	U	U
Wood	142,107 A	U	U	U
Propane	U	U	U	U
Other	U	U	U	U
Source of energy for hot-water furnace				
Electricity	U	U	U	U
Natural gas	174,890 A	U	499,113 A	U
Oil	165,779 A	U	128,938 A	U
Wood	U	U	U	U
Propane	U	U	U	U
Other	U	U	U	U
Source of energy for heating stove				
Electricity	U	U	U	U
Natural gas	U	U	U	U
Oil	U	U	U	U
Wood	324,955 A	U	U	U
Propane	U	U	U	U
Other	U	U	U	U
Households with a high-efficiency furnace (condensing furnace)				
Yes	1,911,369 A	337,775 A	173,542 A	U
No	2,599,806 A	694,554 A	477,862 A	69,039 A
Don't know	224,472 A	U	U	U

Table 3.1 (cont. 3/3)

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
367,688	A	73,396	A	169,755	A		U		U	88,112	M
	U		U		U		U		U		U
245,541	A		U		U		U	50,652	A		U
4,660,710	A		U		U	2,503,750	A	1,464,258	A	637,336	A
763,590	A	202,473	A	204,093	A	280,048	A		U		U
142,107	A	57,924	A		U		U		U		U
79,531	M		U		U		U		U		U
	U		U		U		U		U		U
68,016	M		U		U		U		U		U
730,759	A		U	121,317	M	274,242	A	167,607	A	165,128	A
345,202	A	163,284	A	151,706	A		U		U		U
	U		U		U		U		U		U
	U		U		U		U		U		U
	U		U		U		U		U		U
	U		U		U		U		U		U
	U		U		U		U		U		U
	U		U		U		U		U		U
	U		U		U		U		U		U
	U		U		U		U		U		U
	U		U		U		U		U		U
	U		U		U		U		U		U
	U		U		U		U		U		U
	U		U		U		U		U		U
354,035	A	74,472	A	161,568	A		U		U	78,997	M
	U		U		U		U		U		U
	U		U		U		U		U		U
2,452,901	A	121,548	A	120,756	M	1,489,249	A	481,259	A	240,088	A
3,841,260	A	276,372	A	383,296	A	1,524,243	A	1,094,084	A	563,266	A
361,796	A		U		U	133,642	M	94,897	M	75,124	M

3.2 Characteristics of supplementary heating system

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a supplementary heating system				
Yes	2,224,734 A	323,668 A	160,103 M	69,223 A
No	4,966,806 A	1,397,748 A	1,901,154 A	125,953 A
Main type of supplementary heating system				
Electric baseboards	699,849 A	U	U	U
Portable electric heater	598,575 A	189,526 A	105,543 M	U
Wood stove	491,929 A	U	U	U
Furnace	158,712 M	U	U	U
Other	275,668 A	U	U	U
Weekly use of supplementary heating during the heating season				
Don't use it	129,837 M	U	U	U
50 hours or less	1,378,511 A	243,089 A	119,328 M	U
51 to 100 hours	182,080 A	U	U	U
101 to 168 hours	453,794 A	U	U	U
Don't know	U	U	U	U

Table 3.2

BY REGION

Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
2,777,728 A	258,530 A	808,934 A	909,390 A	316,491 A	484,383 A
8,391,661 A	641,812 A	2,175,310 A	2,972,641 A	1,586,272 A	1,015,626 A
817,511 A	78,158 A	338,513 A	207,175 A	49,744 M	143,920 A
917,629 A	U	96,265 M	423,638 A	181,531 A	190,379 A
522,745 A	94,135 A	240,165 A	U	33,944 M	60,532 M
170,956 M	U	U	U	U	U
348,887 A	28,811 A	77,518 M	154,715 M	39,676 M	48,168 M
156,792 A	U	U	U	U	U
1,787,857 A	153,338 A	516,567 A	577,879 A	215,536 A	324,538 A
215,520 A	U	U	U	U	U
524,414 A	39,259 A	177,861 A	186,301 A	56,428 A	64,566 M
93,145 M	U	U	U	U	U

3.3

Characteristics of wood fireplaces

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Use of wood (cords)				
0	1,038,974 A	152,251 A	U	U
1 cord or less	652,658 A	U	U	U
2 to 3 cords	512,863 A	U	U	U
4 to 5 cords	292,854 A	U	U	U
Use wood that cannot be measured in cords	417,089 A	U	U	U
Don't know	U	U	U	U
Type of cords used				
Face or stove cord (approximately 16 inches x 8 feet x 4 feet)	948,567 A	U	U	U
Full or bush cord (4 feet x 8 feet x 4 feet)	867,358 A	U	U	U
Don't know	90,812 M	U	U	U
Households with a wood-burning fireplace				
Yes	2,224,384 A	254,867 A	U	U
No	4,967,156 A	1,466,549 A	1,992,506 A	186,862 A
Number of wood-burning fireplaces				
0	4,967,156 A	1,466,549 A	1,992,506 A	186,862 A
1	1,903,175 A	240,253 A	U	U
2 to 4	321,209 A	U	U	U
Age of main wood-burning fireplace				
Less than 4 years old	147,515 M	U	U	U
4 to 6 years old	138,522 A	U	U	U
7 to 10 years old	193,379 A	U	U	U
11 years old or more	1,328,057 A	160,340 M	U	U
Unsure; was there when moved in	407,807 A	U	U	U
Don't know	U	U	U	U
Main wood-burning fireplace with glass doors				
Yes	1,303,300 A	119,254 M	U	U
No	921,084 A	135,614 A	U	U

Table 3.3

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
1,227,696	A	89,214	A	133,642	A	568,832	A	188,550	A	247,458	A
745,709	A	43,407	M	205,063	A	246,869	A	155,256	A	95,114	A
559,012	A	82,114	A	198,963	A	158,434	M	45,153	M	74,348	M
322,123	A	79,430	A	136,917	M		U		U		U
434,900	A	46,663	M	258,851	A		U		U		U
	U		U		U		U		U		U
1,032,018	A	89,590	A	486,957	A	297,736	A	97,784	A	59,951	M
953,309	A	149,655	A	303,132	A	208,535	A	126,662	A	165,325	M
111,663	A		U		U		U		U		U
2,556,317	A	133,915	A	626,187	A	980,797	A	390,236	A	425,181	A
8,613,072	A	766,427	A	2,358,057	A	2,901,234	A	1,512,527	A	1,074,828	A
8,613,072	A	766,427	A	2,358,057	A	2,901,234	A	1,512,527	A	1,074,828	A
2,217,094	A	116,365	A	553,901	A	863,685	A	351,661	A	331,483	A
339,223	A		U		U	117,111	M		U	93,699	A
173,710	M		U	83,696	M		U		U		U
143,902	A		U		U		U		U		U
204,622	A		U	103,270	M		U		U		U
1,528,651	A	89,643	A	317,474	A	593,807	A	260,250	A	267,476	A
496,328	A		U		U	273,301	A		U	82,225	M
	U		U		U		U		U		U
1,460,458	A	66,477	A	433,790	A	577,395	A	200,586	A	182,210	A
1,095,858	A	67,438	A	192,397	A	403,401	A	189,650	A	242,972	A

3.4 | Characteristics of gas fireplaces

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a gas fireplace				
Yes	1,482,217 A	258,083 A	93,799 A	U
No	5,709,323 A	1,463,333 A	1,967,458 A	186,283 A
Number of gas fireplaces				
0	5,709,323 A	1,463,333 A	1,967,458 A	186,283 A
1	1,173,039 A	246,432 A	93,799 A	U
2 to 4	309,178 A	U	U	U
Age of main gas fireplace				
Less than 4 years old	340,744 A	U	U	U
4 to 6 years old	392,987 A	U	U	U
7 to 10 years old	384,029 A	U	U	U
11 years old or more	307,608 A	U	U	U
Unsure; was there when moved in	U	U	U	U
Main gas-burning fireplace with glass doors				
Yes	1,331,950 A	211,045 A	U	U
No	150,267 A	U	U	U
Main gas-burning fireplace installed where a wood-burning fireplace previously existed				
Yes	420,529 A	U	U	U
No	1,045,568 A	220,949 A	93,799 A	U
Don't know	U	U	U	U
Main gas fireplace with pilot light				
Yes	1,423,642 A	251,535 A	82,400 M	U
No	U	U	U	U
Don't know	U	U	U	U
Pilot light turned off in the summer				
Yes	838,313 A	144,007 M	U	U
No	580,201 A	107,528 A	U	U
Don't know	U	U	U	U
Type of exhaust for main gas fireplace				
Out the chimney	715,342 A	153,199 M	U	U
Out the side wall (direct vent)	766,875 A	U	U	U
Don't know	U	U	U	U
Use of gas fireplace during heating season				
Every day	511,915 A	U	U	U
Several times a week	266,966 A	U	U	U
A few times a week	223,518 A	U	U	U
A few times a month	304,697 A	U	U	U
Never	173,362 A	U	U	U
Don't know	U	U	U	U

Table 3.4

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
1,842,993	A	49,146	A		U	903,029	A	304,969	A	504,663	A
9,326,396	A	851,196	A	2,903,058	A	2,979,002	A	1,597,794	A	995,346	A
9,326,396	A	851,196	A	2,903,058	A	2,979,002	A	1,597,794	A	995,346	A
1,522,164	A	48,093	A		U	805,542	A	272,628	A	358,860	A
320,829	A		U		U		U		U	145,803	A
418,350	A		U		U	204,023	M	66,422	M	66,368	M
442,325	A		U		U	236,659	A	75,380	A	95,692	A
521,567	A		U		U	240,239	A	107,200	A	166,069	A
382,833	A		U		U	170,951	A		U	155,908	A
77,918	M		U		U		U		U		U
1,608,828	A	41,439	A		U	808,039	A	263,859	A	414,304	A
234,165	A		U		U		U		U	90,359	M
457,172	A		U		U	244,019	A		U	135,959	A
1,366,823	A		U		U	647,381	A	258,362	A	361,336	A
	U		U		U		U		U		U
1,765,790	A	49,146	A		U	880,826	A	288,587	A	466,045	A
	U		U		U		U		U		U
	U		U		U		U		U		U
1,045,284	A		U		U	542,552	A	132,051	A	301,997	A
715,377	A		U		U	333,933	A	156,536	A	163,261	A
	U		U		U		U		U		U
908,516	A		U		U	426,982	A	140,594	A	306,015	A
925,337	A		U		U	476,047	A	161,869	A	192,014	A
	U		U		U		U		U		U
656,222	A		U		U	332,596	A	85,411	A	194,922	A
291,749	A		U		U	166,419	M		U		U
280,265	A		U		U	167,805	M		U	55,472	M
389,686	A		U		U	146,313	A	103,626	A	123,971	A
223,310	A		U		U		U		U	91,072	M
	U		U		U		U		U		U

3.5 Presence of occupants

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with someone at home all day				
Yes	4,238,534 A	894,552 A	968,188 A	123,300 A
No	2,946,925 A	826,865 A	1,091,104 A	71,876 A
Don't know	U	U	U	U
Number of weeks with no one at the dwelling				
0	4,191,805 A	945,046 A	1,132,576 A	108,663 A
1 to 2 weeks	1,445,469 A	450,795 A	422,842 A	U
3 to 4 weeks	889,372 A	184,695 A	226,354 A	U
5 weeks or more	652,542 A	136,529 A	266,741 A	U
Don't know	U	U	U	U

Table 3.5

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
6,224,573	A	524,417	A	1,652,348	A	2,262,779	A	929,915	A	855,114	A
4,936,770	A	375,925	A	1,331,896	A	1,616,398	A	972,848	A	639,703	A
	U		U		U		U		U		U
6,378,090	A	578,859	A	1,783,197	A	2,255,876	A	992,068	A	768,090	A
2,357,852	A	164,077	A	546,975	A	874,341	A	452,842	A	319,617	A
1,335,588	A	67,984	A	363,509	A	433,780	A	259,383	A	210,932	A
1,068,413	A	87,612	A	282,236	A	309,341	A	192,465	A	196,759	A
	U		U		U		U		U		U

3.6 Energy sources used

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Electricity is used by the household as an energy source				
Yes	7,191,540 A	1,717,522 A	2,061,257 A	195,176 A
No	U	U	U	U
Natural gas is used by the household as an energy source				
Yes	4,212,576 A	991,076 A	423,824 A	79,141 A
No	2,978,964 A	730,340 A	1,637,433 A	116,035 A
Heating oil is used by the household as an energy source				
Yes	1,072,062 A	119,145 A	84,405 M	U
No	6,119,478 A	1,602,271 A	1,976,852 A	179,841 A
Propane gas is used by the household as an energy source				
Yes	172,498 A	U	U	U
No	7,019,042 A	1,714,328 A	2,060,872 A	168,438 A
Wood is used by the household as an energy source				
Yes	2,945,711 A	273,225 A	U	U
No	4,245,829 A	1,448,191 A	1,992,506 A	158,179 A

Table 3.6

BY REGION

Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
11,165,495 A	900,342 A	2,984,244 A	3,882,031 A	1,898,869 A	1,500,009 A
U	U	U	U	U	U
5,706,617 A	50,181 A	201,114 A	2,884,079 A	1,599,235 A	972,008 A
5,462,772 A	850,161 A	2,783,130 A	997,952 A	303,528 A	528,001 A
1,290,947 A	422,091 A	412,455 A	360,117 A	U	U
9,878,442 A	478,251 A	2,571,789 A	3,521,914 A	1,880,974 A	1,425,514 A
206,710 A	28,821 M	U	U	U	U
10,962,679 A	871,521 A	2,928,879 A	3,813,055 A	1,883,256 A	1,465,968 A
3,324,685 A	348,189 A	943,882 A	1,104,834 A	434,849 A	492,930 A
7,844,704 A	552,153 A	2,040,362 A	2,777,197 A	1,467,914 A	1,007,079 A

3.7 | Temperature of living space

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Temperature of dwelling during the heating season in the daytime				
16°C or less	519,077 A	185,184 A	283,143 A	U
17°C	301,042 A	U	81,236 M	U
18°C	772,045 A	147,045 A	188,363 A	U
19°C	474,223 A	120,701 M	U	U
20°C	2,229,034 A	426,498 A	460,887 A	48,896 M
21°C	1,312,040 A	366,182 A	316,301 A	59,530 A
22°C	818,034 A	254,949 A	190,197 A	U
23°C	394,342 A	U	U	U
24°C or more	291,409 A	U	134,281 M	U
No control of the temperature	63,271 M	U	203,997 A	U
Don't know	U	U	U	U
Temperature of dwelling during the heating season in the evening				
16°C or less	261,576 A	111,775 M	148,463 A	U
17°C	196,846 A	U	U	U
18°C	495,318 A	128,679 M	196,281 A	U
19°C	414,694 A	99,466 M	U	U
20°C	2,218,408 A	445,273 A	526,657 A	32,334 M
21°C	1,648,976 A	409,713 A	335,805 A	58,586 M
22°C	1,011,816 A	289,814 A	203,570 A	U
23°C	450,244 A	106,473 M	U	U
24°C or more	408,506 A	97,848 M	172,388 M	U
No control of the temperature	U	U	U	U
Don't know	U	U	U	U
Temperature of dwelling during the heating season in the night				
16°C or less	1,436,066 A	325,414 A	424,544 A	U
17°C	623,277 A	U	109,102 M	U
18°C	1,181,036 A	243,572 A	247,140 A	39,089 M
19°C	571,554 A	143,477 M	U	U
20°C	1,633,332 A	360,175 A	365,275 A	U
21°C	867,257 A	257,793 A	225,896 A	U
22°C	431,057 A	172,222 A	132,911 M	U
23°C	165,822 A	U	U	U
24°C or more	194,865 A	U	U	U
No control of the temperature	U	U	U	U
Don't know	U	U	U	U

Table 3.7

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
996,680	A	142,590	A	274,453	A	232,470	A	122,846	A	224,321	A
444,585	A		U	137,316	A	137,243	M	60,701	M	77,655	A
1,125,982	A	78,163	A	287,755	A	375,362	A	177,767	A	206,935	A
677,361	A		U	155,995	M	286,356	A	140,306	A	70,720	M
3,165,315	A	280,881	A	780,462	A	1,128,698	A	591,430	A	383,843	A
2,054,053	A	133,988	A	553,191	A	769,259	A	317,011	A	280,604	A
1,284,825	A	90,604	A	400,694	A	458,370	A	211,126	A	124,032	A
548,571	A		U	176,237	A	184,004	A	97,391	A		U
523,023	A	58,532	A	136,125	M	150,343	M	138,402	M		U
280,601	A	33,323	M		U		U		U		U
	U		U		U		U		U		U
530,868	A	96,880	A	162,866	A	110,168	M	92,929	A	68,025	M
275,483	A		U		U		U		U		U
835,013	A	73,395	A	280,067	A	225,127	A	115,948	A	140,476	A
595,038	A		U	151,687	M	218,917	A	121,502	A	68,816	M
3,222,672	A	276,303	A	762,654	A	1,097,272	A	621,813	A	464,629	A
2,453,079	A	162,804	A	603,622	A	1,008,214	A	322,296	A	356,143	A
1,538,218	A	97,907	A	457,738	A	533,824	A	262,424	A	186,325	A
653,018	A		U	197,802	A	230,177	A	131,059	A		U
707,160	A	71,575	A	209,810	A	195,471	A	152,689	A	77,615	M
	U		U		U		U		U		U
	U		U		U		U		U		U
2,220,359	A	328,314	A	512,582	A	485,388	A	349,520	A	544,554	A
823,300	A	43,285	A	212,117	A	284,331	A	140,507	A	143,060	A
1,710,837	A	144,926	A	426,952	A	596,842	A	283,819	A	258,298	A
826,064	A	31,611	M	185,224	A	326,497	A	174,917	A	107,814	A
2,389,828	A	180,934	A	683,083	A	917,826	A	431,685	A	176,299	A
1,394,527	A	56,594	A	459,344	A	545,186	A	187,446	A	145,958	M
752,690	A	44,665	M	233,546	A	307,856	A	113,534	A		U
302,926	A		U	94,949	M	122,670	M	56,135	M		U
387,899	A		U	94,799	M	124,826	M	119,417	M		U
	U		U		U		U		U		U
	U		U		U		U		U		U

3.8 Programmable thermostats

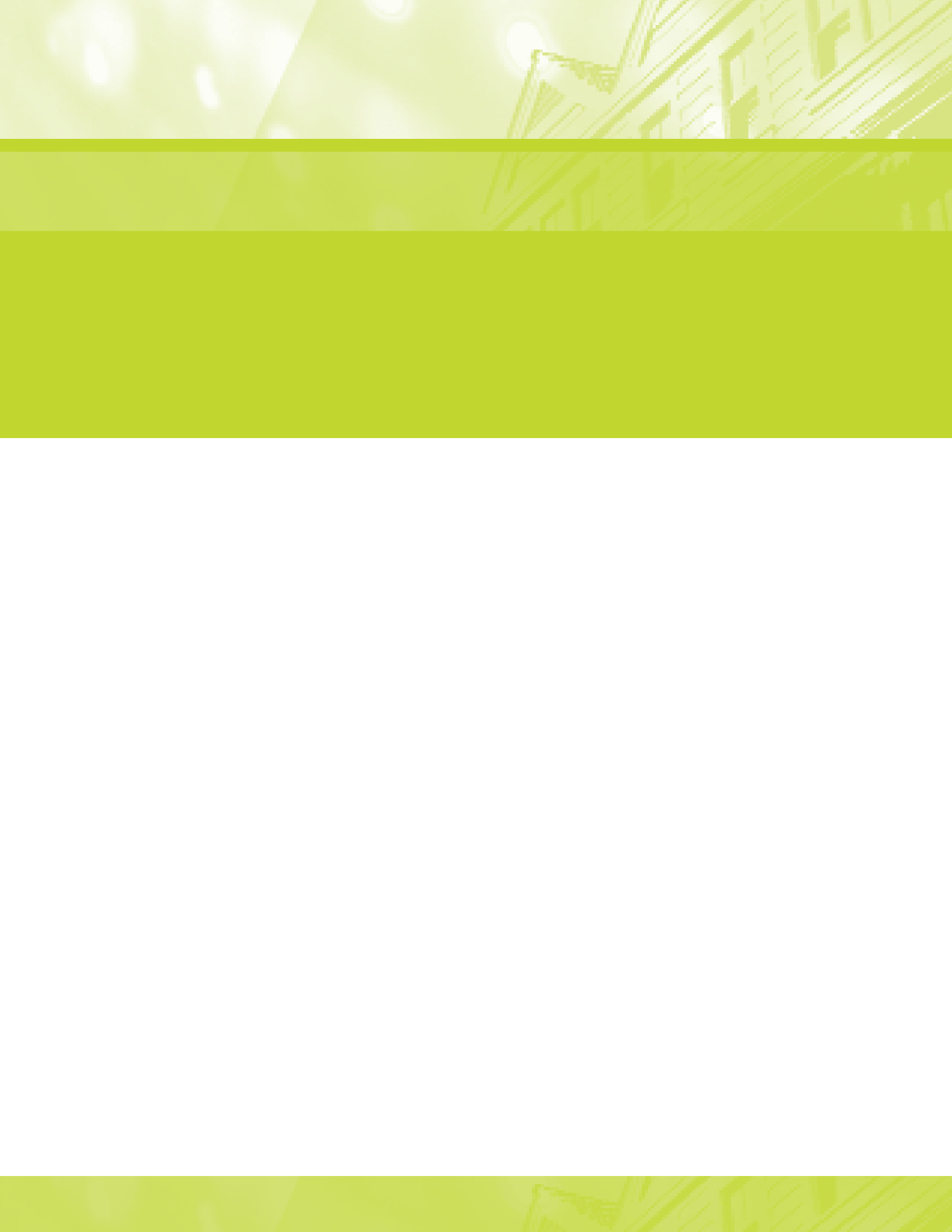
BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a programmable thermostat				
Yes	2,519,989 A	524,109 A	258,550 A	U
No	4,596,563 A	1,182,970 A	1,598,710 A	169,292 A
Don't know	U	U	U	U
Number of programmable thermostats				
0	4,596,563 A	1,182,970 A	1,598,710 A	169,292 A
1 or 2	2,297,493 A	460,784 A	175,776 A	U
3 to 5	144,433 A	U	U	U
More than 5	78,063 M	U	U	U
Don't know	U	U	U	U
Programmable thermostats that were programmed in 2003				
Yes	1,944,032 A	427,457 A	188,638 A	U
No	575,957 A	96,652 M	U	U
Don't know	U	U	U	U
Households with programmable thermostat installed in 2003				
Yes	610,969 A	133,413 M	U	U
No	1,909,020 A	390,695 A	219,170 A	U
Don't know	U	U	U	U
Number of programmable thermostats installed in 2003				
0	1,909,020 A	390,695 A	219,170 A	U
1 or 2	566,071 A	117,713 M	U	U
3 to 5	U	U	U	U
More than 5	U	U	U	U
Don't know	U	U	U	U

Table 3.8

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
3,328,122	A	116,944	A	673,436	A	1,593,437	A	538,012	A	406,294	A
7,547,536	A	747,641	A	2,239,279	A	2,164,426	A	1,323,990	A	1,072,199	A
	U		U		U		U		U		U
7,547,536	A	747,641	A	2,239,279	A	2,164,426	A	1,323,990	A	1,072,199	A
2,950,969	A	102,665	A	391,061	A	1,554,165	A	531,525	A	371,552	A
270,490	A		U	210,693	A		U		U		U
106,663	M		U	71,681	M		U		U		U
	U		U		U		U		U		U
2,573,591	A	91,516	A	510,509	A	1,208,325	A	431,544	A	331,697	A
754,531	A		U	162,926	A	385,112	A	106,468	A	74,597	M
	U		U		U		U		U		U
786,572	A		U	177,598	A	316,716	A	135,864	A	127,614	M
2,541,550	A	88,164	A	495,838	A	1,276,721	A	402,148	A	278,680	A
	U		U		U		U		U		U
2,541,550	A	88,164	A	495,838	A	1,276,721	A	402,148	A	278,680	A
715,556	A		U	111,982	M	316,716	A	133,123	A	127,614	M
	U		U		U		U		U		U
	U		U		U		U		U		U
	U		U		U		U		U		U





SECTION

4

Air Conditioning and Ventilation

4.1 Central air conditioning

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a central air-conditioning system				
Yes	2,403,744 A	498,714 A	U	U
No	4,787,796 A	1,222,702 A	1,999,678 A	177,188 A
Age of central air-conditioning system				
1 to 3 years old	534,240 A	130,244 M	U	U
4 to 5 years old	272,026 A	U	U	U
6 to 10 years old	575,414 A	U	U	U
11 to 15 years old	479,529 A	U	U	U
16 to 20 years old	249,268 A	U	U	U
21 years old or more	183,870 A	U	U	U
Unsure; was there when moved in	83,462 M	U	U	U
Don't know	U	U	U	U
Households with an ENERGY STAR® central air-conditioning system				
Yes	341,450 A	U	U	U
No	U	U	U	U
Don't know	166,247 A	U	U	U
Use of central air-conditioning system in cooling season per week				
0	104,496 M	U	U	U
1 to 24 hours	710,099 A	168,038 M	U	U
25 to 72 hours	491,137 A	U	U	U
More than 72 hours	963,688 A	202,196 A	U	U
Don't know	134,324 M	U	U	U

Table 4.1

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
2,982,025	A		U	270,583	A	2,237,451	A	346,203	A	116,966	A
8,187,364	A	889,520	A	2,713,661	A	1,644,580	A	1,556,560	A	1,383,043	A
691,709	A		U		U	497,601	A	106,177	A		U
356,819	A		U		U	285,441	A		U		U
736,404	A		U		U	566,684	A	60,617	M		U
564,064	A		U		U	440,835	A		U		U
303,639	A		U		U	219,819	A	50,998	M		U
204,951	A		U		U	136,007	M		U		U
97,023	M		U		U		U		U		U
	U		U		U		U		U		U
424,903	A		U		U	308,348	A		U		U
	U		U		U		U		U		U
220,494	A		U		U	168,092	M		U		U
130,626	M		U		U	97,395	M		U		U
909,712	A		U		U	639,186	A	109,742	A	50,372	M
596,524	A		U		U	429,076	A	80,211	A		U
1,190,074	A		U	82,732	M	939,536	A	141,876	A		U
155,717	M		U		U	132,258	M		U		U

4.2

Window-mounted or wall-mounted air conditioner

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a window/room air conditioner				
Yes	836,966 A	263,431 A	554,751 A	58,581 M
No	6,352,447 A	1,457,985 A	1,506,506 A	136,595 A
Don't know	U	U	U	U
Number of window/room air conditioners				
0	6,352,447 A	1,457,985 A	1,506,506 A	136,595 A
1	695,726 A	222,670 A	521,869 A	58,005 M
2 or more	141,240 A	U	U	U
Don't know	U	U	U	U
Type of main window/room air conditioner				
Louvered unit	573,082 A	195,253 A	334,141 A	U
Non-louvered unit	223,756 A	U	197,208 A	U
Don't know	U	U	U	U
Cooling capacity of main window/room air conditioner				
5,000 to 10,000 Btu	283,480 A	85,604 M	267,108 A	U
10,000 to 15,000 Btu	157,338 A	U	83,524 M	U
More than 15,000 Btu	U	U	U	U
Don't know	364,056 A	U	195,028 A	U
Age of main window/room air conditioner				
1 to 3 years old	312,786 A	112,986 M	217,512 A	U
4 to 5 years old	108,245 M	U	U	U
6 to 10 years old	176,885 A	U	116,797 M	U
11 to 15 years old	113,265 M	U	U	U
16 to 20 years old	75,006 M	U	U	U
21 years old or more	U	U	U	U
Don't know	U	U	U	U
Households with an ENERGY STAR® main window/room air conditioner				
Yes	177,112 A	U	134,833 M	U
No	U	U	U	U
Don't know	U	U	U	U
Use of main window/room air conditioner in cooling season, per week				
0	U	U	U	U
1 to 24 hours	361,962 A	U	190,667 A	U
25 to 72 hours	278,657 A	U	186,208 A	U
More than 72 hours	126,674 A	U	147,674 M	U
Don't know	U	U	U	U

Table 4.2

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
1,713,729	A	70,383	A	657,390	A	625,067	A	229,041	A	131,847	A
9,453,533	A	829,959	A	2,326,854	A	3,256,964	A	1,671,595	A	1,368,162	A
	U		U		U		U		U		U
9,453,533	A	829,959	A	2,326,854	A	3,256,964	A	1,671,595	A	1,368,162	A
1,498,270	A	62,945	A	579,641	A	507,473	A	219,967	A	128,245	A
215,459	A		U	77,749	M	117,595	M		U		U
	U		U		U		U		U		U
1,141,991	A	58,416	A	366,079	A	459,386	A	163,626	A	94,484	A
495,890	A		U	268,262	A		U	59,786	M		U
	U		U		U		U		U		U
651,142	A		U	289,586	A	235,755	A	52,096	M		U
304,636	A		U	163,848	A		U		U		U
	U		U		U		U		U		U
693,234	A		U	176,128	A	274,640	A	143,043	A	72,180	M
652,011	A		U	345,049	A	184,563	M		U		U
189,571	A		U		U		U		U		U
384,259	A		U	107,428	M	199,776	A		U		U
227,619	A		U		U		U		U		U
143,786	M		U		U		U		U		U
	U		U		U		U		U		U
	U		U		U		U		U		U
371,895	A		U	182,701	A		U		U		U
184,837	A		U		U		U		U		U
127,700	A		U		U		U		U		U
60,061	M		U		U		U		U		U
656,230	A		U	210,649	A	250,522	A	107,021	M	61,986	A
578,997	A		U	234,195	A	201,506	A	75,398	A		U
355,172	A		U	191,758	A		U		U		U
	U		U		U		U		U		U

4.3 | Air exchanger

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with an air exchanger				
Yes	1,023,920 A	118,602 A	U	U
No	6,112,755 A	1,584,622 A	1,978,500 A	171,416 A
Don't know	U	U	U	U
Households with an air exchanger with a heat recovery system				
Yes	392,829 A	U	U	U
No	538,014 A	89,730 M	U	U
Don't know	147,942 M	U	U	U
Time air exchanger is used				
All year	617,380 A	U	U	U
Heating season	111,550 M	U	U	U
Cooling season	U	U	U	U
Occasionally	148,696 A	U	U	U
Never	U	U	U	U
Other	U	U	U	U
Don't know	U	U	U	U

Table 4.3

BY REGION

Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
1,249,038 A	194,569 A	518,016 A	310,481 A	154,944 A	71,028 M
9,847,293 A	705,773 A	2,464,782 A	3,518,424 A	1,733,888 A	1,424,427 A
U	U	U	U	U	U
438,534 A	81,962 A	161,650 A	131,564 M	U	U
699,888 A	104,118 A	338,363 A	130,138 M	108,307 A	U
183,674 A	U	U	U	U	U
710,550 A	102,626 A	351,857 A	168,891 M	51,193 M	U
130,955 A	U	U	U	U	U
101,887 A	U	U	U	U	U
200,971 A	40,809 A	U	U	U	U
U	U	U	U	U	U
U	U	U	U	U	U
116,257 M	U	U	U	U	U

4.4 | Ceiling fan

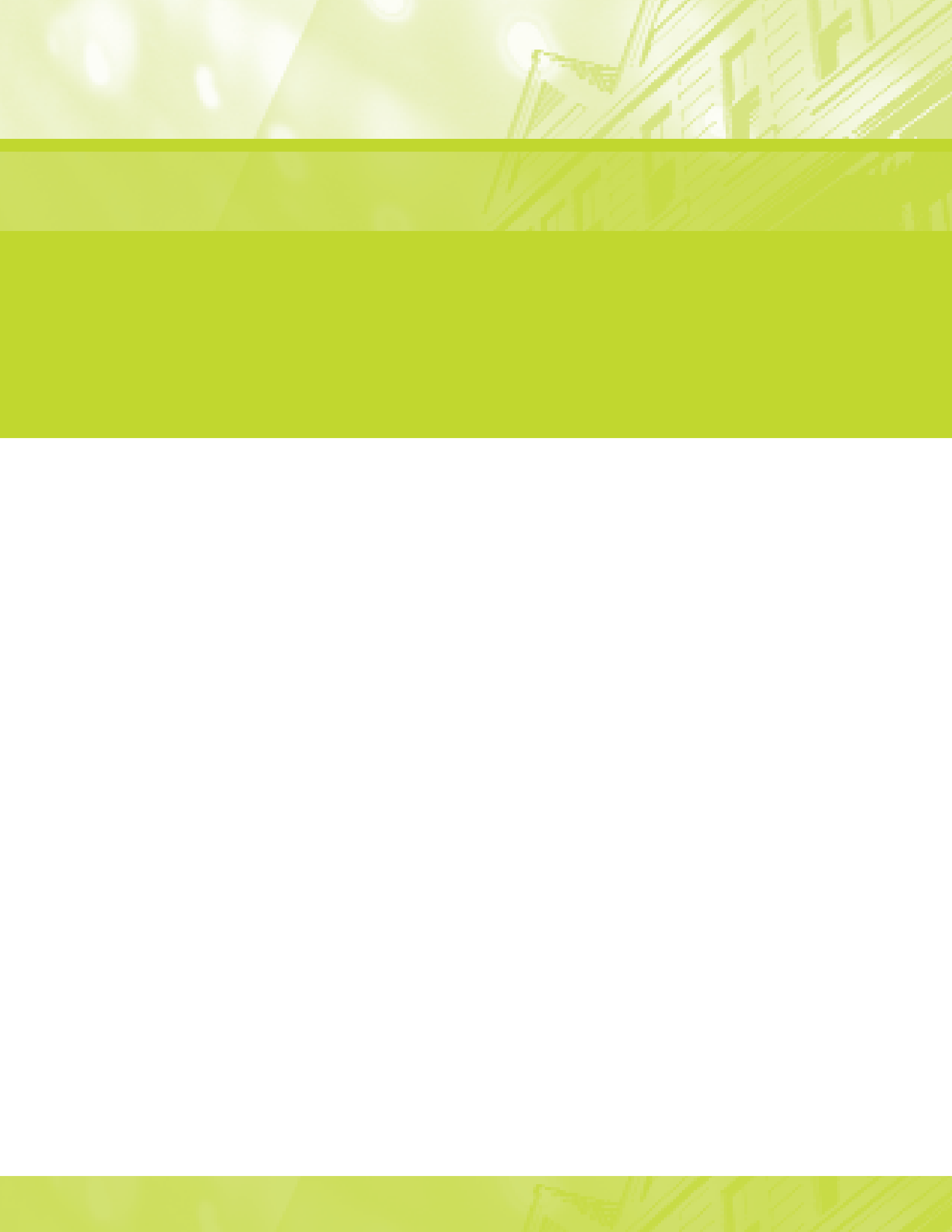
BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a ceiling fan				
Yes	4,445,579 A	919,898 A	804,738 A	155,169 A
No	2,745,114 A	801,518 A	1,256,519 A	U
Don't know	U	U	U	U
Number of ceiling fans				
0	2,745,114 A	801,518 A	1,256,519 A	U
1	1,989,450 A	422,117 A	524,232 A	94,948 A
2 or more	2,456,129 A	497,781 A	280,506 A	60,222 A
Don't know	U	U	U	U
Use of ceiling fan during the heating season, per week				
0	2,472,759 A	587,713 A	467,166 A	83,877 A
1 to 24 hours	1,084,962 A	158,493 A	185,312 M	U
25 to 72 hours	275,341 A	U	U	U
More than 72 hours	588,787 A	U	U	U
Don't know	U	U	U	U
Use of ceiling fan during the cooling season, per week				
0	649,924 A	173,254 A	81,983 M	U
1 to 24 hours	1,859,690 A	351,309 A	266,481 A	66,934 M
25 to 72 hours	883,068 A	201,934 A	185,246 A	U
More than 72 hours	975,577 A	173,638 A	253,510 A	U
Don't know	78,167 M	U	U	U

Table 4.4

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
6,325,384	A	566,703	A	1,765,831	A	2,216,516	A	1,077,161	A	699,172	A
4,843,158	A	333,639	A	1,218,413	A	1,665,515	A	824,755	A	800,837	A
	U		U		U		U		U		U
4,843,158	A	333,639	A	1,218,413	A	1,665,515	A	824,755	A	800,837	A
3,030,746	A	251,678	A	834,020	A	947,550	A	562,982	A	434,516	A
3,294,638	A	315,025	A	931,812	A	1,268,966	A	514,179	A	264,656	A
	U		U		U		U		U		U
3,611,515	A	323,887	A	1,117,543	A	1,167,091	A	609,884	A	393,110	A
1,457,584	A	141,405	A	365,523	A	512,409	A	262,624	A	175,623	A
410,004	A		U		U	176,570	M	78,514	A	66,725	M
807,145	A	59,824	A	220,890	A	341,302	A	123,379	A	61,751	M
	U		U		U		U		U		U
917,883	A	87,014	A	215,356	A	309,872	A	152,856	A	152,784	A
2,544,414	A	218,086	A	735,469	A	862,374	A	413,228	A	315,258	A
1,309,933	A	142,478	A	309,663	A	497,215	A	244,689	A	115,889	A
1,434,065	A	111,065	A	476,753	A	486,121	A	251,447	A	108,679	A
119,936	M		U		U		U		U		U





SECTION

5

**Electrical and Other
Energy-Consuming Appliances**

5.1 Refrigerator

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a refrigerator				
Yes	7,182,452 A	1,717,016 A	2,061,257 A	195,176 A
No	U	U	U	U
Number of refrigerators				
0	U	U	U	U
1	4,303,624 A	1,333,274 A	2,013,148 A	168,089 A
2	2,724,945 A	363,777 A	U	U
3 or more	153,883 A	U	U	U
Age of main refrigerator				
1 to 3 years old	1,684,936 A	352,713 A	372,979 A	U
4 to 5 years old	1,000,355 A	341,267 A	223,336 A	U
6 to 10 years old	2,036,066 A	461,665 A	523,855 A	67,941 A
11 to 15 years old	1,218,918 A	259,531 A	438,734 A	U
16 to 20 years old	667,228 A	177,891 A	232,949 A	U
21 years old or more	518,859 A	100,958 M	125,398 M	U
Don't know	U	U	144,006 M	U
Age of secondary refrigerator				
3 years old or less	203,163 A	U	U	U
4 to 5 years old	83,373 M	U	U	U
6 to 10 years old	454,590 A	U	U	U
11 to 15 years old	381,319 A	U	U	U
16 to 20 years old	450,127 A	U	U	U
21 years old or more	727,642 A	U	U	U
Don't know	578,614 A	U	U	U
Size of main refrigerator				
Compact (less than 7.75 cubic feet)	U	U	U	U
Small (7.76 to 12.4 cubic feet)	169,669 A	U	237,944 A	U
Medium (12.5 to 16.4 cubic feet)	2,056,653 A	605,868 A	1,055,297 A	97,841 A
Large (16.5 to 20 cubic feet)	4,271,213 A	966,994 A	701,823 A	80,358 A
Very large (more than 20 cubic feet)	650,628 A	93,074 M	U	U
Don't know	U	U	U	U
Size of secondary refrigerator				
Compact (less than 7.75 cubic feet)	245,114 A	U	U	U
Small (7.76 to 12.4 cubic feet)	481,625 A	U	U	U
Medium (12.5 to 16.4 cubic feet)	789,266 A	122,385 M	U	U
Large (16.5 to 20 cubic feet)	765,554 A	124,168 M	U	U
Very large (more than 20 cubic feet)	U	U	U	U
Don't know	555,089 A	U	U	U
Type of doors on main refrigerator				
Top and bottom doors with freezer on top	5,111,128 A	1,412,469 A	1,757,305 A	173,645 A
Top and bottom doors with freezer on bottom	528,496 A	94,681 M	U	U
Single door	325,566 A	U	166,650 A	U
Side-by-side doors	1,143,074 A	127,304 M	U	U
Three doors	74,188 M	U	U	U

Table 5.1

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
11,155,900	A	899,835	A	2,984,244	A	3,882,031	A	1,889,781	A	1,500,009	A
	U		U		U		U		U		U
	U		U		U		U		U		U
7,818,136	A	729,755	A	2,134,972	A	2,440,628	A	1,351,609	A	1,161,171	A
3,163,917	A	162,785	A	820,513	A	1,347,253	A	516,919	A	316,448	A
173,848	A		U		U		U		U		U
2,434,356	A	155,148	A	608,490	A	906,671	A	454,542	A	309,505	A
1,585,176	A	126,851	A	411,721	A	595,871	A	279,368	A	171,365	A
3,089,527	A	284,977	A	786,761	A	1,043,570	A	491,697	A	482,522	A
1,965,737	A	165,481	A	591,375	A	687,988	A	253,366	A	267,528	A
1,102,980	A	76,620	A	348,172	A	319,077	A	206,840	A	152,271	A
754,040	A	47,428	A	205,567	A	261,125	A	154,218	A	85,702	M
224,084	A		U		U		U		U		U
262,855	A		U		U	129,809	A		U	49,342	M
116,413	M		U		U		U		U		U
564,528	A		U	101,646	M	287,440	A	87,361	A	67,075	M
430,674	A		U	126,694	M	165,994	A	52,650	M	55,506	M
497,842	A		U	171,437	A	185,718	A	68,430	M		U
820,852	A		U	265,001	A	315,808	A	158,520	A	55,502	M
644,600	A		U	136,151	M	287,144	A	122,520	A	58,204	M
	U		U		U		U		U		U
459,368	A	66,704	A		U	167,720	A	82,067	M		U
3,815,659	A	314,374	A	1,078,411	A	1,083,678	A	723,106	A	616,090	A
6,020,388	A	472,168	A	1,600,975	A	2,291,301	A	921,711	A	734,233	A
801,464	A	43,682	M	228,576	A	321,049	A	145,726	A	62,432	A
	U		U		U		U		U		U
318,933	A		U		U	139,618	A		U		U
521,397	A		U	162,663	A	198,315	A	78,719	A	49,444	M
934,206	A	43,634	A	192,525	A	385,655	A	196,715	A	115,676	A
899,924	A		U	283,287	A	436,639	A	88,977	A	59,555	M
	U		U		U		U		U		U
619,930	A		U	136,151	M	267,150	A	117,187	A	58,861	M
8,454,547	A	738,385	A	2,464,348	A	2,797,979	A	1,413,608	A	1,040,227	A
686,131	A		U	189,224	A	240,813	A	102,123	A	128,102	M
552,750	A	52,993	A	127,746	A	135,696	M	152,196	A	84,121	A
1,334,256	A	71,943	A	156,045	M	675,865	A	207,235	A	223,167	A
128,216	A		U		U		U		U		U

5.1 Refrigerator

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Type of doors on secondary refrigerator				
Top and bottom doors with freezer on top	1,410,292 A	220,372 A	U	U
Top and bottom doors with freezer on bottom	U	U	U	U
Single door	788,994 A	94,189 M	U	U
Side-by-side doors	86,788 M	U	U	U
Three doors	U	U	U	U
Not stated	552,060 A	U	U	U
Households with a main refrigerator that automatically defrosts				
Yes	6,682,924 A	1,604,054 A	1,745,928 A	182,522 A
No	479,755 A	106,512 M	315,329 A	U
Don't know	U	U	U	U
Households with a secondary refrigerator that automatically defrosts				
Yes	1,291,477 A	204,975 A	U	U
No	1,018,730 A	125,652 M	U	U
Don't know	568,620 A	U	U	U
What happened to previous refrigerator				
Kept it at home and plugged in all year	567,319 A	U	U	U
Kept it at home and plugged in when needed	125,344 M	U	U	U
Disposed of: refrigerator no longer working	1,569,191 A	238,659 A	258,124 A	U
Other	1,249,501 A	171,735 A	223,253 A	U
Not stated	182,736 A	U	U	U
Age of previous refrigerator when replaced				
3 years old or less	221,771 A	U	U	U
4 to 5 years old	107,860 M	U	U	U
6 to 10 years old	423,032 A	U	U	U
11 to 15 years old	775,917 A	134,523 M	96,622 M	U
16 to 20 years old	954,990 A	112,361 M	139,047 M	U
21 years old or more	1,033,499 A	113,667 M	146,938 A	U
This is the original/first refrigerator	1,375,252 A	323,313 A	297,455 A	U
Don't know	177,021 A	U	U	U
Households with an ice maker in the main refrigerator				
Yes	923,518 A	108,857 M	U	U
No	6,239,176 A	1,601,539 A	1,981,283 A	188,010 A
Households with an ENERGY STAR® main refrigerator				
Yes	1,253,125 A	238,715 A	205,998 A	U
No	296,791 A	U	92,132 M	U
Don't know	191,109 A	71,549 M	218,855 A	U

Table 5.1 (cont. 2/2)

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
1,660,915	A	58,264	A	446,937	A	736,621	A	261,977	A	157,117	A
	U		U		U		U		U		U
916,401	A	64,348	A	226,066	A	383,762	A	147,826	A	94,399	A
98,969	M		U		U		U		U		U
	U		U		U		U		U		U
616,902	A		U	136,151	M	267,150	A	115,671	A	57,348	M
10,215,428	A	814,656	A	2,673,882	A	3,634,741	A	1,683,284	A	1,408,864	A
914,250	A	82,872	A	303,476	A	245,165	A	194,063	A	88,674	A
	U		U		U		U		U		U
1,523,209	A	65,729	A	371,774	A	683,818	A	217,850	A	184,038	A
1,181,094	A	63,173	A	341,347	A	480,724	A	201,594	A	94,256	A
633,462	A		U	136,151	M	276,860	A	118,728	A	60,544	M
625,562	A		U	269,243	A	239,536	A	68,766	M		U
139,426	A		U		U		U		U		U
2,084,235	A	187,505	A	780,307	A	812,821	A	202,368	A	101,234	A
1,665,231	A	149,078	A	811,967	A	428,672	A	164,995	A	110,519	M
250,312	A		U	79,725	M		U		U		U
282,503	A		U	145,752	A		U		U		U
135,482	M		U		U		U		U		U
563,854	A	40,519	A	201,659	A	218,591	A		U		U
1,027,777	A	92,011	A	468,772	A	354,710	A	68,848	A		U
1,214,420	A	100,894	A	508,004	A	437,106	A	121,474	A		U
1,296,132	A	109,432	A	525,529	A	424,190	A	192,619	A		U
2,012,933	A	162,279	A	598,860	A	785,318	A	322,798	A	143,679	A
244,597	A		U	79,725	M		U		U		U
1,104,690	A	61,724	A	116,753	M	552,274	A	181,719	A	192,219	A
10,010,009	A	835,986	A	2,864,236	A	3,318,034	A	1,699,815	A	1,291,938	A
1,715,473	A	99,752	A	448,376	A	651,984	A	260,512	A	254,849	A
460,455	A		U	115,921	A	152,612	A	134,247	A		U
482,512	A	63,476	A		U	169,805	M	109,533	M		U

5.2 Kitchen stove and built-in oven

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with built-in oven or regular stove				
Yes	7,163,979 A	1,715,611 A	2,031,096 A	190,355 A
No	U	U	U	U
Type of stove				
Regular stove	6,393,801 A	1,643,151 A	2,003,550 A	175,362 A
Built-in oven with a separate cooktop	770,178 A	U	U	U
Other	U	U	U	U
Age of built-in oven or regular stove				
3 years old or less	1,471,077 A	313,195 A	262,839 A	U
4 to 5 years old	852,444 A	257,564 A	150,413 A	U
6 to 10 years old	1,867,166 A	475,244 A	463,784 A	51,285 M
11 to 15 years old	1,339,361 A	295,483 A	439,572 A	U
16 to 20 years old	794,025 A	190,046 A	300,495 A	U
21 years old or more	761,538 A	139,131 M	226,661 A	U
Don't know	78,367 M	U	187,331 A	U
Energy source of built-in oven or regular stove				
Electricity	6,508,382 A	1,577,223 A	1,974,186 A	167,921 A
Natural gas	553,665 A	U	U	U
Wood	U	U	U	U
Propane	82,900 M	U	U	U
Electricity and natural gas	U	U	U	U
Energy source of cooktop				
Electricity	644,630 A	U	U	U
Natural gas	105,283 M	U	U	U
Other	U	U	U	U
Age of separate cooktop				
3 years old or less	96,183 M	U	U	U
4 to 5 years old	63,686 M	U	U	U
6 to 10 years old	154,773 A	U	U	U
11 to 15 years old	182,886 A	U	U	U
16 to 20 years old	158,022 M	U	U	U
21 years old or more	110,932 M	U	U	U
Don't know	U	U	U	U
Use of built-in oven or regular stove				
Three or more times a day	1,235,359 A	327,550 A	321,180 A	U
Two times a day	2,134,973 A	539,258 A	528,519 A	50,523 M
Once a day	2,617,679 A	568,199 A	751,578 A	64,850 A
A few times each week	920,087 A	248,135 A	337,679 A	U
Once a week	159,606 A	U	U	U
Less than once a week	84,308 M	U	U	U
Never	U	U	U	U
Self-cleaning built-in oven or regular stove				
Yes	3,476,912 A	654,399 A	344,061 A	49,923 M
No	3,676,702 A	1,061,212 A	1,679,132 A	140,432 A
Don't know	U	U	U	U

Table 5.2

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
11,101,041	A	893,891	A	2,952,358	A	3,862,694	A	1,896,597	A	1,495,502	A
68,348	M		U		U		U		U		U
10,215,864	A	814,546	A	2,692,800	A	3,590,107	A	1,780,884	A	1,337,527	A
885,177	A	79,345	A	259,558	A	272,587	A	115,712	A	157,975	A
68,348	M		U		U		U		U		U
2,066,070	A	150,803	A	531,867	A	775,229	A	350,438	A	257,733	A
1,280,275	A	105,253	A	282,823	A	498,587	A	241,788	A	151,824	A
2,857,479	A	250,745	A	727,237	A	961,475	A	471,743	A	446,279	A
2,122,478	A	169,959	A	623,837	A	758,187	A	296,407	A	274,088	A
1,319,019	A	89,928	A	444,751	A	383,798	A	226,625	A	173,917	A
1,144,244	A	75,667	A	297,030	A	354,198	A	258,352	A	158,996	A
311,477	A		U		U		U		U		U
10,227,712	A	861,856	A	2,902,309	A	3,365,729	A	1,770,993	A	1,326,824	A
754,482	A		U		U	471,730	A	124,024	A	136,966	A
	U		U		U		U		U		U
98,780	M		U		U		U		U		U
	U		U		U		U		U		U
742,732	A	76,041	A	240,741	A	221,263	A	103,025	A	101,663	A
122,180	M		U		U		U		U		U
	U		U		U		U		U		U
106,488	A		U		U		U		U		U
79,370	M		U		U		U		U		U
183,477	A		U		U		U		U		U
197,336	A		U		U		U		U		U
188,784	M		U		U		U		U		U
118,169	M		U		U		U		U		U
	U		U		U		U		U		U
1,909,198	A	272,155	A	411,387	A	553,494	A	329,936	A	342,227	A
3,253,274	A	249,497	A	947,856	A	1,023,303	A	546,945	A	485,673	A
4,002,306	A	256,475	A	1,132,445	A	1,600,512	A	631,817	A	381,057	A
1,530,193	A	100,503	A	364,868	A	533,372	A	330,864	A	200,587	A
227,110	A		U		U		U		U		U
145,005	M		U		U		U		U		U
	U		U		U		U		U		U
4,525,296	A	231,152	A	1,079,212	A	1,717,652	A	788,773	A	708,507	A
6,557,477	A	662,739	A	1,873,146	A	2,138,599	A	1,105,666	A	777,327	A
	U		U		U		U		U		U

5.3 | Microwave oven

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a microwave				
Yes	6,914,866 A	1,559,917 A	1,842,980 A	186,699 A
No	276,674 A	161,499 M	218,277 A	U
Use of microwave				
Less than 5 minutes per week	234,583 A	U	115,971 M	U
5 to 15 minutes per week	1,098,715 A	223,511 A	433,562 A	U
16 to 30 minutes per week	1,806,169 A	413,246 A	525,472 A	61,552 M
31 to 60 minutes per week	1,891,708 A	436,942 A	397,878 A	53,466 A
61 minutes to 2 hours per week	1,270,282 A	252,767 A	250,190 A	U
More than 2 hours per week	604,362 A	160,712 A	119,907 M	U
Don't know	U	U	U	U

Table 5.3

BY REGION

Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
10,504,462 A	857,885 A	2,745,069 A	3,670,056 A	1,847,856 A	1,383,596 A
664,927 A	42,457 A	239,175 A	211,975 M	U	116,413 M
427,456 A	U	U	182,070 M	U	90,785 M
1,775,646 A	152,482 A	531,107 A	604,999 A	278,112 A	208,947 A
2,806,439 A	242,365 A	779,480 A	973,524 A	482,882 A	328,188 A
2,779,994 A	234,495 A	748,974 A	956,451 A	467,791 A	372,283 A
1,809,143 A	144,404 A	383,778 A	676,609 A	355,947 A	248,406 A
895,260 A	60,980 A	201,452 A	270,835 A	230,523 A	131,471 A
U	U	U	U	U	U

5.4 Dishwasher

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a dishwasher				
Yes	4,620,076 A	889,005 A	560,288 A	80,646 A
No	2,571,464 A	832,412 A	1,500,969 A	114,531 A
Type of dishwasher				
Compact (exterior width less than 56 cm / 22 in.)	99,854 M	U	U	U
Standard (exterior width greater than or equal to 56 cm / 22 in.)	4,520,222 A	856,488 A	492,092 A	79,118 A
Age of dishwasher				
3 years old or less	1,157,834 A	231,668 A	170,431 A	U
4 to 5 years old	767,979 A	132,844 M	U	U
6 to 10 years old	1,331,748 A	300,433 A	109,392 M	U
11 to 15 years old	709,433 A	107,325 M	111,158 M	U
16 to 20 years old	421,613 A	U	U	U
21 years old or more	187,655 A	U	U	U
Don't know	U	U	U	U
Loads of dishes per week				
Don't use the dishwasher	216,058 A	U	U	U
1 to 2	1,353,291 A	325,443 A	270,557 A	U
3 to 5	1,941,069 A	314,435 A	220,967 A	U
More than 5	1,100,017 A	188,045 M	U	U
Don't know	U	U	U	U
Dish-drying habits with dishwasher				
Heat on (hot air)	2,489,952 A	465,884 A	274,118 A	41,842 M
Heat off (door closed)	1,335,842 A	250,859 A	154,134 M	U
Door open (dishes dry naturally)	761,132 A	167,098 A	128,647 M	U
Don't know	U	U	U	U
Dish-rinsing habits before using dishwasher				
Most of the time	2,788,704 A	551,484 A	418,340 A	U
Sometimes	894,494 A	176,399 A	96,069 M	U
Rarely	387,047 A	U	U	U
Never	542,653 A	U	U	U
Don't know	U	U	U	U
Households with an ENERGY STAR® dishwasher				
Yes	819,621 A	142,456 M	90,859 M	U
No	227,668 A	U	U	U
Don't know	154,361 A	U	U	U

Table 5.4

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
6,150,014	A	393,361	A	1,615,228	A	2,123,372	A	1,092,467	A	925,586	A
5,019,375	A	506,981	A	1,369,016	A	1,758,659	A	810,296	A	574,423	A
202,093	A	U	U	U	U	U	U	U	U	73,294	M
5,947,920	A	381,866	A	1,582,718	A	2,058,112	A	1,072,933	A	852,292	A
1,578,524	A	90,052	A	356,342	A	614,040	A	279,811	A	238,280	A
974,589	A	53,465	A	323,804	A	338,444	A	140,133	A	118,742	A
1,770,488	A	133,588	A	405,891	A	604,542	A	335,099	A	291,368	A
936,352	A	64,838	A	248,496	A	296,646	A	189,286	A	137,087	A
576,641	A	34,290	A	179,753	A	191,933	A	83,616	M	87,049	M
252,201	A	U	U	95,758	M	U	U	U	U	U	U
61,218	M	U	U	U	U	U	U	U	U	U	U
298,392	A	U	U	118,320	A	U	U	U	U	U	U
1,979,316	A	120,878	A	608,205	A	679,791	A	330,176	A	240,265	A
2,516,795	A	153,255	A	626,732	A	863,366	A	476,787	A	396,655	A
1,345,869	A	101,497	A	261,972	A	484,971	A	248,544	A	248,884	A
U	U	U	U	U	U	U	U	U	U	U	U
3,271,795	A	214,411	A	936,041	A	1,041,410	A	607,024	A	472,909	A
1,772,668	A	107,039	A	428,984	A	666,255	A	327,133	A	243,256	A
1,063,848	A	70,471	A	244,715	A	393,483	A	152,977	A	202,203	A
U	U	U	U	U	U	U	U	U	U	U	U
3,807,449	A	213,167	A	1,212,786	A	1,248,699	A	566,991	A	565,807	A
1,181,834	A	101,982	A	151,218	A	495,049	A	217,083	A	216,503	A
467,341	A	34,118	A	U	U	148,741	A	135,501	A	68,503	M
686,211	A	44,094	A	170,746	A	229,351	A	170,850	A	71,169	A
U	U	U	U	U	U	U	U	U	U	U	U
1,067,036	A	62,086	A	228,002	A	410,740	A	194,732	A	171,476	A
345,114	A	U	U	81,897	M	147,962	M	U	U	U	U
227,593	A	U	U	U	U	U	U	U	U	U	U

Table 5.4 (cont. 2/2)

BY REGION

Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
1,168,351 A	65,860 A	470,460 A	393,516 A	145,677 A	92,837 A
790,736 A	57,332 A	231,564 A	308,407 A	133,857 A	59,576 M
2,083,712 A	188,682 A	563,394 A	796,069 A	297,549 A	238,018 A
U	U	U	U	U	U
94,858 M	U	U	U	U	U
161,268 A	U	U	U	U	U
229,896 A	U	U	U	46,445 M	U
161,583 A	U	U	U	U	U
85,011 M	U	U	U	U	U
66,176 M	U	U	U	U	U

5.5 Freezer

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a freezer				
Yes	5,257,205 A	882,487 A	545,515 A	129,585 A
No	1,934,335 A	838,929 A	1,515,742 A	65,591 M
Number of freezers				
0	1,934,335 A	838,929 A	1,515,742 A	65,591 M
1	4,581,878 A	836,583 A	537,462 A	120,381 A
2	603,303 A	U	U	U
3 or more	72,025 M	U	U	U
Age of the main freezer				
3 years old or less	622,328 A	181,957 A	88,531 M	U
4 to 5 years old	390,780 A	U	U	U
6 to 10 years old	1,171,826 A	255,673 A	195,732 A	U
11 to 15 years old	969,906 A	141,702 M	97,355 M	U
16 to 20 years old	889,650 A	148,004 M	U	U
21 years old or more	1,185,301 A	U	U	U
Don't know	U	U	U	U
Size of the main freezer				
Very small (less than 7.0 cubic feet)	290,736 A	111,483 A	96,866 M	U
Small (7.1 to 13.9 cubic feet)	1,532,578 A	389,866 A	284,697 A	61,837 A
Medium (14.0 to 17.9 cubic feet)	1,971,501 A	251,511 A	135,527 M	48,555 M
Large (18.0 to 22.9 cubic feet)	1,116,697 A	107,001 M	U	U
Very large (23 cubic feet or more)	338,827 A	U	U	U
Don't know	U	U	U	U
Type of main freezer				
A chest type (top opening)	4,488,009 A	729,735 A	477,397 A	122,920 A
An upright type (front opening)	765,248 A	152,752 A	U	U
Don't know	U	U	U	U
Type of defrost for main freezer				
Automatic defrost	1,521,262 A	287,199 A	165,343 M	U
Manual defrost	3,714,360 A	591,994 A	378,816 A	83,106 A
Don't know	U	U	U	U
Households with an ENERGY STAR® freezer				
Yes	417,378 A	126,491 A	U	U
No	148,626 A	U	U	U
Don't know	83,738 M	U	U	U

Table 5.5

BY REGION

Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
6,814,793 A	621,292 A	1,504,832 A	2,419,388 A	1,397,774 A	871,507 A
4,354,596 A	279,050 A	1,479,412 A	1,462,643 A	504,989 A	628,502 A
4,354,596 A	279,050 A	1,479,412 A	1,462,643 A	504,989 A	628,502 A
6,076,304 A	545,366 A	1,375,597 A	2,261,756 A	1,159,258 A	734,327 A
663,583 A	69,595 A	113,287 M	149,761 A	200,497 A	130,443 M
74,905 M	U	U	U	U	U
925,415 A	88,714 A	168,278 A	341,308 A	205,029 A	122,086 A
527,375 A	48,780 A	123,636 A	195,009 A	116,396 A	U
1,655,277 A	185,605 A	329,367 A	579,710 A	309,570 A	251,027 A
1,240,549 A	87,195 A	314,825 A	459,618 A	259,656 A	119,255 A
1,135,191 A	94,194 A	279,660 A	388,234 A	185,871 A	187,231 A
1,298,542 A	114,222 A	284,322 A	443,682 A	315,177 A	141,140 A
U	U	U	U	U	U
503,789 A	40,001 M	122,455 M	157,837 A	113,847 A	69,650 M
2,268,978 A	200,058 A	494,397 A	856,658 A	410,752 A	307,113 A
2,407,093 A	239,495 A	510,637 A	841,683 A	515,255 A	300,024 A
1,259,861 A	115,245 A	261,813 A	448,982 A	277,423 A	156,398 A
368,205 A	U	U	U	77,507 M	U
U	U	U	U	U	U
5,818,060 A	565,950 A	1,232,742 A	2,008,122 A	1,256,892 A	754,355 A
992,784 A	55,343 A	272,090 A	411,266 A	136,933 A	117,152 M
U	U	U	U	U	U
2,020,283 A	168,126 A	447,044 A	798,604 A	371,688 A	234,821 A
4,768,277 A	453,166 A	1,051,443 A	1,617,679 A	1,015,957 A	630,031 A
U	U	U	U	U	U
610,668 A	55,644 A	80,567 M	237,151 A	144,195 A	93,112 A
229,416 A	U	U	U	U	U
117,775 A	U	U	U	U	U

Table 5.5 (cont. 2/2)

BY REGION

Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
1,273,499 A	135,952 A	267,721 A	420,169 A	269,589 A	180,068 A
759,476 A	83,294 A	174,615 M	294,815 A	146,968 A	59,784 M
4,431,404 A	373,907 A	1,005,690 A	1,592,536 A	905,986 A	553,285 A
U	U	U	U	U	U
113,376 M	U	U	U	U	U
103,588 M	U	U	U	U	U
185,620 A	U	U	U	U	U
115,271 A	U	U	U	U	U
164,715 A	U	U	U	U	U
100,413 M	U	U	U	U	U

5.6 Clothes washer

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a clothes washer				
Yes	7,101,939 A	1,592,184 A	982,550 A	181,865 A
No	89,601 M	129,232 M	1,072,972 A	U
Not stated	U	U	U	U
Type of clothes washer				
Automatic washer	6,950,357 A	1,544,732 A	940,398 A	176,146 A
Washer/dryer combination	121,440 A	U	U	U
Other	U	U	U	U
Not stated	U	U	U	U
Type of loading for clothes washer				
Front loading	841,791 A	173,524 A	108,245 M	U
Top loading	6,260,148 A	1,418,660 A	874,305 A	172,599 A
Not stated	U	U	U	U
Age of clothes washer				
3 years old or less	1,587,567 A	451,995 A	242,465 A	U
4 to 5 years old	1,142,567 A	229,484 A	109,995 A	U
6 to 10 years old	2,041,215 A	478,208 A	288,148 A	54,984 M
11 to 15 years old	1,265,876 A	195,988 A	175,240 A	U
16 to 20 years old	645,353 A	133,927 M	85,097 M	U
21 years old or more	368,236 A	U	U	U
Don't know	U	U	U	U
Size of clothes washer				
Compact (less than 45 litres / 10 gallons)	117,193 A	U	141,450 M	U
Standard (greater than or equal to 45 litres / 10 gallons)	6,982,398 A	1,537,632 A	841,100 A	176,782 A
Not stated	U	U	U	U
Water temperature used for washing in clothes washer				
Hot	309,432 A	U	U	U
Warm	4,313,506 A	927,120 A	448,020 A	97,163 A
Cold	2,418,268 A	584,505 A	510,861 A	67,638 M
Don't know	U	U	U	U
Water temperature used for rinsing in clothes washer				
Hot	U	U	U	U
Warm	1,256,366 A	354,868 A	168,793 A	U
Cold	5,723,067 A	1,203,455 A	802,644 A	145,730 A
Don't know	U	U	U	U

Table 5.6

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
9,858,538	A	790,874	A	2,702,190	A	3,474,241	A	1,687,588	A	1,203,645	A
1,305,116	A	109,468	A	282,054	A	407,790	A	209,439	A	296,364	A
	U		U		U		U		U		U
9,611,633	A	758,069	A	2,688,308	A	3,370,319	A	1,643,645	A	1,151,293	A
213,107	A		U		U		U		U		U
	U		U		U		U		U		U
	U		U		U		U		U		U
1,132,826	A	33,505	M	428,942	A	395,671	A	168,695	A	106,015	A
8,725,711	A	757,369	A	2,273,249	A	3,078,570	A	1,518,893	A	1,097,630	A
	U		U		U		U		U		U
2,308,483	A	163,577	A	569,825	A	960,929	A	376,701	A	237,450	A
1,507,818	A	132,370	A	461,776	A	508,225	A	236,981	A	168,467	A
2,862,555	A	247,987	A	716,042	A	976,099	A	514,173	A	408,254	A
1,679,794	A	131,897	A	550,189	A	523,924	A	274,506	A	199,278	A
886,321	A	75,683	A	248,532	A	267,152	A	160,094	A	134,860	M
512,013	A	32,802	M	141,330	A	199,963	A	95,477	M		U
107,289	M		U		U		U		U		U
318,278	A	47,787	M		U		U		U	76,172	M
9,537,912	A	743,087	A	2,606,430	A	3,407,133	A	1,653,789	A	1,127,473	A
	U		U		U		U		U		U
414,468	A	32,716	M		U	146,630	M	116,911	A		U
5,785,809	A	390,534	A	1,301,180	A	2,228,346	A	1,152,331	A	713,417	A
3,581,272	A	366,265	A	1,339,510	A	1,049,969	A	400,152	A	425,375	A
	U		U		U		U		U		U
90,828	M		U		U		U		U		U
1,809,863	A	102,482	A	401,421	A	712,514	A	364,368	A	229,077	A
7,874,896	A	682,892	A	2,277,855	A	2,675,483	A	1,284,590	A	954,076	A
	U		U		U		U		U		U

5.6 Clothes washer

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Use of clothes washer in winter				
Don't use the washer	U	U	U	U
1 to 2 loads per week	1,571,736 A	446,249 A	331,327 A	61,171 M
3 to 5 loads per week	2,782,651 A	687,836 A	422,835 A	50,156 M
More than 5 loads per week	2,679,070 A	449,570 A	219,388 A	65,790 A
Don't know	U	U	U	U
Use of clothes washer in summer				
Don't use the washer	U	U	U	U
1 to 2 loads per week	1,519,945 A	393,963 A	314,507 A	72,095 M
3 to 5 loads per week	2,870,882 A	736,361 A	455,531 A	44,093 M
More than 5 loads per week	2,656,529 A	449,706 A	208,043 A	65,677 A
Don't know	U	U	U	U
Households with an ENERGY STAR® clothes washer				
Yes	1,212,679 A	285,668 A	156,317 A	U
No	260,361 A	106,372 M	U	U
Don't know	165,652 A	U	U	U
Condition of previous clothes washer when replaced				
Still working	1,909,521 A	319,827 A	278,758 A	U
Not working	2,435,900 A	298,682 A	230,010 A	U
This is the original/first clothes washer	1,514,621 A	462,657 A	320,837 A	U
Don't know	U	U	U	U
Age of previous clothes washer when replaced				
5 years old or less	168,646 A	U	U	U
6 to 10 years old	323,521 A	U	U	U
11 to 15 years old	573,440 A	76,798 M	U	U
16 to 20 years old	1,052,446 A	97,610 M	U	U
21 years old or more	192,466 A	U	U	U
Don't know	192,227 A	U	U	U

5.7 Clothes dryer

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a clothes dryer				
Yes	6,709,755 A	1,508,808 A	880,539 A	177,020 A
No	481,785 A	212,608 A	1,180,718 A	U
Households with condensing clothes dryer not vented to the outside				
Yes	725,628 A	205,450 A	186,888 A	U
No	5,970,305 A	1,300,131 A	690,404 A	159,865 A
Don't know	U	U	U	U
Households with moisture detector in clothes dryer				
Yes	2,246,262 A	350,786 A	166,157 A	29,727 M
No	4,207,879 A	1,082,191 A	635,060 A	141,382 A
Don't know	255,614 A	U	U	U
Age of clothes dryer				
3 years old or less	1,370,379 A	361,462 A	197,688 A	U
4 to 5 years old	931,448 A	220,513 A	108,523 M	U
6 to 10 years old	1,853,219 A	422,939 A	232,492 A	52,813 M
11 to 15 years old	1,310,464 A	237,881 A	142,236 M	U
16 to 20 years old	717,995 A	133,864 A	106,811 M	U
21 years old or more	479,499 A	U	U	U
Don't know	U	U	U	U
Size of clothes dryer				
Compact (less than 125-litre/28-gallon capacity)	91,683 A	U	105,011 M	U
Standard (greater than or equal to 125-litre/28-gallon capacity)	6,618,072 A	1,453,352 A	775,528 A	174,664 A
Use of clothes dryer in winter				
Don't use it	127,994 A	U	U	U
1 to 2 loads per week	1,714,704 A	474,819 A	356,303 A	70,027 M
3 to 5 loads per week	2,607,121 A	611,628 A	310,911 A	46,157 M
More than 5 loads per week	2,242,924 A	385,259 A	197,604 A	58,227 A
Don't know	U	U	U	U
Use of clothes dryer in summer				
Don't use it	1,019,198 A	231,944 A	168,144 A	U
1 to 2 loads per week	2,134,400 A	559,360 A	342,668 A	77,157 A
3 to 5 loads per week	2,105,246 A	517,374 A	254,581 A	40,489 M
More than 5 loads per week	1,432,912 A	200,130 A	115,145 M	U
Don't know	U	U	U	U

Table 5.7

BY REGION

Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
9,276,122 A	749,816 A	2,509,365 A	3,209,104 A	1,671,252 A	1,136,585 A
1,893,267 A	150,526 A	474,879 A	672,927 A	231,511 A	363,424 A
1,135,120 A	77,683 A	342,548 A	372,013 A	201,726 A	141,151 A
8,120,704 A	669,960 A	2,166,817 A	2,826,102 A	1,467,308 A	990,517 A
U	U	U	U	U	U
2,792,932 A	181,112 A	632,971 A	1,089,968 A	531,561 A	357,320 A
6,066,512 A	543,534 A	1,738,045 A	1,965,632 A	1,077,316 A	741,985 A
416,677 A	U	138,349 M	153,503 A	U	U
1,956,534 A	136,387 A	464,313 A	752,207 A	406,252 A	197,375 A
1,286,341 A	115,513 A	406,653 A	420,448 A	209,487 A	134,240 A
2,561,464 A	186,770 A	594,976 A	935,752 A	477,773 A	366,193 A
1,732,315 A	157,737 A	515,759 A	559,491 A	288,221 A	211,107 A
977,151 A	90,964 A	305,050 A	294,303 A	146,943 A	139,891 M
665,673 A	49,904 A	209,149 A	214,767 A	116,969 A	74,884 M
96,644 M	U	U	U	U	U
254,505 A	U	U	U	U	70,559 M
9,021,617 A	722,046 A	2,426,462 A	3,161,822 A	1,645,261 A	1,066,025 A
182,795 A	U	U	U	U	U
2,615,852 A	174,192 A	797,257 A	940,433 A	390,294 A	313,676 A
3,575,817 A	258,690 A	978,667 A	1,218,327 A	689,948 A	430,184 A
2,884,014 A	300,479 A	664,913 A	989,890 A	554,613 A	374,118 A
U	U	U	U	U	U
1,443,140 A	205,634 A	693,999 A	384,975 A	82,569 A	75,963 M
3,113,585 A	234,514 A	985,972 A	1,065,858 A	464,967 A	362,275 A
2,917,691 A	182,806 A	588,945 A	1,158,863 A	605,988 A	381,089 A
1,783,706 A	126,863 A	237,445 A	586,540 A	515,601 A	317,257 A
U	U	U	U	U	U

5.7

Clothes dryer

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Condition of previous clothes dryer when replaced				
Still working	2,029,485 A	319,270 A	301,860 A	U
Not working	1,575,950 A	150,349 M	126,922 M	U
This is the original/first clothes dryer	1,933,703 A	521,881 A	293,570 A	U
Don't know	U	U	U	U
Age of previous clothes dryer when replaced				
5 years old or less	112,794 M	U	U	U
6 to 10 years old	139,308 A	U	U	U
11 to 15 years old	416,435 A	U	U	U
16 to 20 years old	386,880 A	U	U	U
21 years old or more	410,668 A	U	U	U
Don't know	168,733 A	U	U	U

78 The letter beside each estimate classifies its quality as follows: **A** – Acceptable, **M** – Use with caution, **U** – Too unreliable to be published. Due to rounding the numbers may not add up and may differ slightly among tables. Source: 2003 Survey of Household Energy Use.

Table 5.7 (cont. 2/2)

BY REGION

Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
2,690,364 A	161,452 A	1,176,339 A	806,514 A	371,455 A	174,604 A
1,872,122 A	233,787 A	497,417 A	725,864 A	287,180 A	127,874 A
2,797,056 A	261,915 A	715,684 A	952,916 A	565,623 A	300,917 A
81,165 M	U	U	U	U	U
133,200 A	U	U	U	U	U
161,520 A	U	U	U	U	U
492,735 A	50,756 A	136,541 M	189,506 A	74,241 M	U
450,082 A	63,695 A	119,573 M	164,311 M	86,270 A	U
477,248 A	56,048 A	127,091 M	183,843 A	70,968 A	U
238,502 A	U	U	U	U	U

5.8 Personal computer

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a personal computer				
Yes	5,104,116 A	1,194,743 A	1,009,692 A	112,417 A
No	2,087,424 A	524,630 A	1,051,564 A	82,759 A
Don't know	U	U	U	U
Number of personal computers				
0	2,087,424 A	524,630 A	1,051,564 A	82,759 A
1	3,669,306 A	948,377 A	819,051 A	99,938 A
2 or more	1,434,810 A	246,365 A	190,642 A	U
Don't know	U	U	U	U
Time main personal computer is turned on per week				
0	110,637 M	U	U	U
1 to 24 hours	2,484,079 A	654,664 A	495,017 A	60,260 A
25 to 72 hours	990,797 A	199,797 A	248,785 A	U
73 to 168 hours	1,487,508 A	301,648 A	245,354 A	U
Don't know	U	U	U	U
Time main personal computer is used per week (including time used for downloading)				
0	U	U	U	U
1 to 24 hours	3,598,300 A	887,879 A	661,045 A	76,865 A
25 to 72 hours	1,240,368 A	253,942 A	272,644 A	U
73 to 168 hours	94,698 M	U	U	U
Don't know	U	U	U	U
Age of most frequently used personal computer				
3 years old or less	2,914,676 A	680,006 A	592,261 A	59,754 M
4 to 5 years old	1,270,066 A	314,797 A	230,148 A	U
6 to 10 years old	823,857 A	184,272 A	154,000 A	U
11 years old or more	70,655 M	U	U	U
Don't know	U	U	U	U

Table 5.8

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
7,420,968	A	539,920	A	1,816,515	A	2,776,977	A	1,242,639	A	1,044,917	A
3,746,377	A	360,422	A	1,165,685	A	1,105,054	A	660,124	A	455,092	A
	U		U		U		U		U		U
3,746,377	A	360,422	A	1,165,685	A	1,105,054	A	660,124	A	455,092	A
5,536,672	A	450,735	A	1,386,326	A	2,012,259	A	973,505	A	713,847	A
1,884,296	A	89,185	A	430,189	A	764,718	A	269,134	A	331,070	A
	U		U		U		U		U		U
159,865	A		U		U		U		U		U
3,694,019	A	233,464	A	977,983	A	1,516,478	A	534,218	A	431,876	A
1,463,979	A	107,810	A	345,524	A	541,580	A	239,018	A	230,048	A
2,059,593	A	181,192	A	430,090	A	649,072	A	432,970	A	366,269	A
	U		U		U		U		U		U
	U		U		U		U		U		U
5,224,088	A	362,755	A	1,309,293	A	1,997,462	A	888,084	A	666,493	A
1,798,707	A	142,801	A	386,876	A	642,129	A	291,897	A	335,005	A
157,346	A		U		U		U		U		U
	U		U		U		U		U		U
4,246,697	A	294,199	A	1,041,955	A	1,593,501	A	689,294	A	627,748	A
1,837,870	A	113,589	A	467,513	A	694,607	A	344,459	A	217,702	A
1,187,679	A	119,782	A	281,900	A	420,540	A	183,299	A	182,157	A
107,955	A		U		U		U		U		U
	U		U		U		U		U		U

5.9 Television

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a television set				
Yes	7,134,663 A	1,699,674 A	2,010,759 A	193,192 A
No	U	U	U	U
Number of television sets				
1	1,874,367 A	630,616 A	1,288,296 A	94,491 A
2	3,075,656 A	708,824 A	620,571 A	65,233 A
3 or more	2,184,640 A	360,235 A	101,892 A	U
Time main television set is turned on per week				
0	U	U	U	U
1 to 24 hours	2,793,354 A	711,153 A	845,561 A	66,980 A
25 to 72 hours	3,776,660 A	874,716 A	968,513 A	97,686 A
73 to 168 hours	543,512 A	110,362 M	196,685 A	U
Don't know	U	U	U	U
Age of main television set				
3 years old or less	2,228,134 A	530,002 A	514,044 A	73,912 A
4 to 5 years old	1,220,508 A	334,797 A	341,870 A	U
6 to 10 years old	2,194,351 A	518,758 A	710,131 A	50,285 M
11 to 15 years old	915,510 A	185,224 A	247,449 A	U
16 to 20 years old	397,779 A	96,073 M	130,451 M	U
21 years old or more	157,318 A	U	U	U
Don't know	U	U	U	U
Households with an ENERGY STAR® main television set				
Yes	1,068,487 A	232,656 A	168,325 A	U
No	668,615 A	201,724 A	238,071 A	U
Don't know	512,094 A	97,993 M	110,628 M	U

Table 5.9

BY REGION

Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
11,038,288 A	898,781 A	2,955,544 A	3,828,374 A	1,881,981 A	1,473,608 A
131,101 M	U	U	U	U	U
3,887,769 A	282,026 A	1,171,169 A	1,104,283 A	634,037 A	696,254 A
4,470,285 A	354,611 A	1,210,923 A	1,646,848 A	788,026 A	469,878 A
2,680,234 A	262,145 A	573,452 A	1,077,243 A	459,918 A	307,477 A
U	U	U	U	U	U
4,417,049 A	288,533 A	1,122,533 A	1,672,905 A	704,703 A	628,375 A
5,717,575 A	491,211 A	1,574,115 A	1,854,133 A	1,029,992 A	768,125 A
878,545 A	117,685 A	258,897 A	286,302 A	140,067 A	75,595 M
U	U	U	U	U	U
3,346,092 A	286,836 A	870,260 A	1,151,294 A	569,580 A	468,122 A
1,937,145 A	159,471 A	504,603 A	671,754 A	361,539 A	239,779 A
3,473,524 A	251,887 A	907,786 A	1,274,475 A	571,800 A	467,577 A
1,366,295 A	114,290 A	422,255 A	448,505 A	222,683 A	158,562 A
629,360 A	57,011 A	177,691 A	200,045 A	84,146 M	110,467 M
259,456 A	U	U	U	U	U
U	U	U	U	U	U
1,502,282 A	115,749 A	397,125 A	531,275 A	228,250 A	229,883 A
1,137,038 A	115,150 A	302,337 A	377,882 A	223,330 A	118,339 A
733,186 A	60,784 A	175,063 A	252,491 A	124,948 A	119,900 A

5.10

Video cassette recorder (VCR)

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a VCR				
Yes	6,123,334 A	1,396,086 A	1,563,851 A	174,042 A
No	1,068,206 A	325,330 A	497,406 A	U
Number of VCRs				
1	4,079,506 A	1,042,686 A	1,360,434 A	150,224 A
2	1,675,107 A	298,075 A	176,427 A	U
3 or more	368,722 A	U	U	U
Time main VCR is turned on per week				
0	1,140,842 A	198,338 A	269,572 A	U
1 to 24 hours	4,726,739 A	1,161,391 A	1,193,962 A	137,962 A
25 to 72 hours	172,650 A	U	U	U
73 to 168 hours	61,242 M	U	U	U
Don't know	U	U	U	U
Age of the main VCR				
3 years old or less	1,942,085 A	478,297 A	641,761 A	55,914 A
4 to 5 years old	1,270,614 A	369,705 A	331,911 A	U
6 to 10 years old	2,082,882 A	408,255 A	424,645 A	62,450 M
11 to 15 years old	574,899 A	80,525 M	144,478 M	U
16 years old or more	231,509 A	U	U	U
Don't know	U	U	U	U
Households with an ENERGY STAR® main VCR				
Yes	866,229 A	216,587 A	289,002 A	U
No	704,390 A	168,639 A	255,990 A	U
Don't know	392,811 A	102,593 M	99,750 M	U

Table 5.10

BY REGION

Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
9,257,313 A	740,735 A	2,482,350 A	3,227,825 A	1,612,903 A	1,193,500 A
1,912,076 A	159,607 A	501,894 A	654,206 A	289,860 A	306,509 A
6,632,851 A	533,880 A	1,746,168 A	2,302,234 A	1,143,643 A	906,926 A
2,168,252 A	175,589 A	639,729 A	759,981 A	373,957 A	218,995 A
456,211 A	31,266 M	96,452 M	165,611 M	95,303 M	67,579 M
1,634,283 A	134,247 A	450,489 A	588,750 A	281,790 A	179,007 A
7,220,055 A	568,044 A	1,904,212 A	2,536,079 A	1,251,960 A	959,759 A
257,101 A	U	U	U	59,042 M	U
113,220 M	U	U	U	U	U
U	U	U	U	U	U
3,118,056 A	226,737 A	853,408 A	1,079,250 A	556,272 A	402,389 A
2,010,286 A	165,155 A	508,286 A	780,581 A	333,049 A	223,214 A
2,978,232 A	239,952 A	799,531 A	1,029,388 A	522,723 A	386,638 A
812,257 A	73,493 A	239,469 A	219,726 A	140,324 A	139,245 A
304,632 A	33,671 M	U	104,140 M	52,181 A	U
U	U	U	U	U	U
1,390,472 A	88,901 A	358,186 A	515,921 A	224,833 A	202,631 A
1,144,038 A	89,251 A	346,827 A	372,868 A	213,601 A	121,491 M
617,396 A	50,312 A	152,661 M	205,200 A	126,192 A	83,031 A

5.11 DVD player

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a DVD player (excluding video game systems that can play DVDs)				
Yes	4,157,710 A	945,712 A	782,741 A	78,419 A
No	3,033,830 A	775,704 A	1,278,516 A	116,757 A
Number of DVD players				
1	3,433,223 A	813,975 A	729,400 A	74,178 A
2 or more	722,132 A	131,736 A	U	U
Don't know	U	U	U	U
Time main DVD player is turned on per week				
0	424,803 A	U	U	U
1 to 3	2,342,083 A	450,246 A	385,028 A	U
4 to 5	670,709 A	269,339 A	145,899 M	U
6 hours or more	696,500 A	154,825 A	183,484 A	U
Don't know	U	U	U	U
Age of the main DVD player				
1 year or less	2,239,009 A	412,298 A	462,282 A	49,705 M
2 to 3 years old	1,512,603 A	439,825 A	267,056 A	U
4 to 5 years old	322,621 A	U	U	U
6 years old or more	U	U	U	U
Don't know	U	U	U	U
Households with an ENERGY STAR® main DVD player				
Yes	1,748,900 A	379,466 A	288,984 A	U
No	1,066,033 A	299,209 A	293,011 A	U
Don't know	946,137 A	173,449 A	147,342 A	U

Table 5.11

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
5,964,582	A	401,791	A	1,521,009	A	2,165,421	A	1,071,598	A	804,763	A
5,204,807	A	498,551	A	1,463,235	A	1,716,610	A	831,165	A	695,246	A
5,050,776	A	349,399	A	1,363,687	A	1,786,407	A	871,479	A	679,805	A
911,451	A	52,392	A	157,322	A	376,659	A	200,119	A	124,959	A
	U		U		U		U		U		U
563,360	A	46,886	A	172,947	A	200,648	A	67,385	M	75,494	M
3,210,623	A	201,167	A	851,429	A	1,177,650	A	560,728	A	419,648	A
1,106,553	A	65,478	A	256,640	A	465,372	A	196,921	A	122,143	A
1,054,380	A	86,840	A	231,444	A	311,828	A	239,920	A	184,347	A
	U		U		U		U		U		U
3,163,294	A	276,736	A	854,555	A	1,018,124	A	579,785	A	434,093	A
2,245,236	A	102,054	A	488,023	A	934,202	A	406,482	A	314,475	A
445,441	A		U	163,737	M	153,797	M	62,637	M		U
101,152	M		U		U		U		U		U
	U		U		U		U		U		U
2,445,705	A	157,657	A	562,963	A	925,942	A	448,012	A	351,131	A
1,687,512	A	122,475	A	455,312	A	559,670	A	360,819	A	189,236	A
1,284,771	A	98,659	A	324,302	A	474,991	A	178,618	A	208,201	A

5.12 | Video game system

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a video game system requiring an electrical outlet				
Yes	2,134,900 A	488,069 A	287,734 A	61,451 M
No	5,056,640 A	1,233,347 A	1,773,523 A	133,725 A
Number of video game systems requiring an electrical outlet				
1	1,706,322 A	402,897 A	227,754 A	48,094 M
2 or more	428,238 A	85,172 M	U	U
Don't know	U	U	U	U

88 | The letter beside each estimate classifies its quality as follows: **A** - Acceptable, **M** - Use with caution, **U** - Too unreliable to be published.
Due to rounding the numbers may not add up and may differ slightly among tables. Source: 2003 Survey of Household Energy Use.

5.14 Stereo system

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a component stereo system				
Yes	4,456,035 A	1,035,762 A	961,949 A	106,674 A
No	2,732,778 A	685,654 A	1,099,307 A	87,786 A
Don't know	U	U	U	U
Number of component stereo systems				
0	2,732,778 A	685,654 A	1,099,307 A	87,786 A
1	3,624,243 A	821,839 A	898,717 A	97,281 A
2 or more	831,792 A	213,924 A	U	U
Don't know	U	U	U	U
Households with a compact/portable stereo				
Yes	4,529,061 A	973,753 A	1,084,207 A	89,971 A
No	2,662,479 A	747,663 A	977,050 A	105,205 A
Number of compact/portable stereos				
0	2,662,479 A	747,663 A	977,050 A	105,205 A
1	3,063,668 A	743,545 A	920,986 A	74,180 A
2 or more	1,465,393 A	230,208 A	163,221 A	U
Don't know	U	U	U	U
Use of the main stereo system per week				
0	407,387 A	U	129,321 M	U
1 to 5 hours	2,740,303 A	671,753 A	747,741 A	68,281 A
6 to 10 hours	1,174,989 A	290,088 A	280,911 A	U
11 to 20 hours	784,178 A	210,652 A	231,420 A	U
21 hours or more	1,135,527 A	259,428 A	318,883 A	U
Don't know	U	U	U	U
Age of main stereo system				
3 years old or less	1,933,847 A	498,784 A	523,066 A	30,886 M
4 to 5 years old	1,090,019 A	248,632 A	275,166 A	U
6 to 10 years old	1,662,829 A	440,558 A	553,509 A	47,100 M
11 to 15 years old	747,509 A	154,183 M	208,256 A	U
16 to 20 years old	455,415 A	U	U	U
21 years old or more	319,386 A	U	U	U
Don't know	U	U	U	U
Households with an ENERGY STAR® main stereo system				
Yes	722,400 A	170,690 A	150,060 A	U
No	753,606 A	213,052 A	283,969 A	U
Don't know	509,063 A	125,486 M	97,755 M	U

Table 5.14

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
6,560,421	A	449,504	A	1,668,800	A	2,335,882	A	1,130,252	A	975,983	A
4,605,525	A	450,838	A	1,315,444	A	1,546,149	A	771,794	A	521,299	A
	U		U		U		U		U		U
4,605,525	A	450,838	A	1,315,444	A	1,546,149	A	771,794	A	521,299	A
5,442,080	A	395,551	A	1,460,697	A	1,852,070	A	898,037	A	835,725	A
1,118,341	A	53,952	A	208,102	A	483,812	A	232,215	A	140,259	A
	U		U		U		U		U		U
6,676,993	A	544,248	A	1,767,796	A	2,404,893	A	1,078,141	A	881,916	A
4,492,396	A	356,094	A	1,216,448	A	1,477,138	A	824,622	A	618,093	A
4,492,396	A	356,094	A	1,216,448	A	1,477,138	A	824,622	A	618,093	A
4,802,380	A	377,799	A	1,319,248	A	1,686,956	A	755,582	A	662,795	A
1,874,614	A	166,449	A	448,548	A	717,937	A	322,559	A	219,121	A
	U		U		U		U		U		U
620,373	A	79,601	A	134,800	A	211,172	A	109,817	M	84,982	M
4,228,078	A	311,020	A	1,211,999	A	1,478,419	A	671,065	A	555,575	A
1,766,005	A	107,060	A	454,153	A	691,476	A	306,618	A	206,699	A
1,253,500	A	86,846	A	343,262	A	436,146	A	199,245	A	188,001	A
1,745,645	A	140,236	A	476,436	A	554,752	A	280,885	A	293,335	A
	U		U		U		U		U		U
2,986,583	A	264,913	A	777,575	A	1,047,618	A	509,995	A	386,483	A
1,654,574	A	129,735	A	442,872	A	562,335	A	322,760	A	196,872	A
2,703,996	A	173,311	A	782,409	A	977,799	A	414,437	A	356,040	A
1,123,316	A	90,792	A	278,472	A	396,928	A	152,362	A	204,761	A
638,701	A	32,938	M	193,656	A	232,782	A	88,221	A	91,103	M
455,788	A	30,207	M	142,005	M	145,268	M	71,929	M	66,380	M
	U		U		U		U		U		U
1,053,125	A	70,058	A	303,902	A	340,885	A	193,227	A	145,053	A
1,265,844	A	130,534	A	341,342	A	475,997	A	178,268	A	139,702	A
737,998	A	68,039	A	139,225	A	252,949	A	148,326	A	129,459	M

5.15 Telephone and answering machine

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a telephone requiring electricity				
Yes	6,558,012 A	1,545,485 A	1,618,455 A	182,975 A
No	633,528 A	175,931 A	442,802 A	U
Number of telephones requiring electricity				
0	633,528 A	175,931 A	442,802 A	U
1	2,378,850 A	707,137 A	877,329 A	88,288 A
2 to 3	3,518,480 A	746,675 A	707,604 A	92,326 A
4 or more	660,683 A	91,673 M	U	U
Age of main telephone requiring electricity				
3 years old or less	3,518,711 A	893,975 A	820,406 A	122,779 A
4 to 5 years old	1,230,697 A	284,307 A	278,731 A	U
6 to 10 years old	1,335,012 A	307,615 A	369,899 A	U
11 to 15 years old	345,737 A	U	109,269 M	U
16 to 20 years old	88,731 M	U	U	U
21 years old or more	U	U	U	U
Don't know	U	U	U	U
Households with an answering machine				
Yes	3,100,070 A	626,768 A	724,190 A	60,748 M
No	4,091,470 A	1,094,648 A	1,337,067 A	134,428 A
Number of answering machines				
0	4,091,470 A	1,094,648 A	1,337,067 A	134,428 A
1	3,006,913 A	607,978 A	714,514 A	60,748 M
2 or more	93,157 A	U	U	U

Table 5.15

BY REGION

Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
9,904,928 A	789,128 A	2,596,618 A	3,497,117 A	1,679,677 A	1,342,388 A
1,264,461 A	111,214 A	387,626 A	384,914 A	223,086 A	157,621 A
1,264,461 A	111,214 A	387,626 A	384,914 A	223,086 A	157,621 A
4,051,604 A	330,597 A	1,122,631 A	1,375,007 A	719,689 A	503,680 A
5,065,085 A	405,073 A	1,258,643 A	1,833,817 A	846,708 A	720,843 A
788,239 A	53,458 A	215,343 A	288,293 A	113,279 A	117,865 A
5,355,871 A	455,907 A	1,340,683 A	1,965,596 A	918,233 A	675,452 A
1,816,024 A	124,437 A	469,675 A	626,303 A	337,645 A	257,964 A
2,030,393 A	161,852 A	569,134 A	687,442 A	326,516 A	285,447 A
510,141 A	U	148,541 A	156,844 M	78,117 M	98,160 M
125,500 M	U	U	U	U	U
U	U	U	U	U	U
U	U	U	U	U	U
4,511,777 A	228,553 A	1,080,913 A	1,607,744 A	772,501 A	822,067 A
6,657,612 A	671,789 A	1,903,331 A	2,274,287 A	1,130,262 A	677,942 A
6,657,612 A	671,789 A	1,903,331 A	2,274,287 A	1,130,262 A	677,942 A
4,390,154 A	219,593 A	1,049,708 A	1,586,737 A	753,810 A	780,305 A
121,622 A	U	U	U	U	U





SECTION

6

Hot Water

6.1 Hot water tank and appliances using hot water

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with a hot water tank				
Yes	7,035,780 A	1,661,185 A	1,392,605 A	195,176 A
No	155,400 A	U	660,195 A	U
Don't know	U	U	U	U
Source of energy used to heat the running water				
Electricity	3,254,709 A	771,321 A	1,196,153 A	159,387 A
Oil	278,978 A	U	87,274 M	U
Natural gas	3,565,861 A	902,724 A	744,833 A	U
Propane	U	U	U	U
Solar panel	U	U	U	U
Other source	U	U	U	U
No hot running water	U	U	U	U
Age of hot water tank				
3 years old or less	1,886,401 A	435,310 A	394,068 A	50,694 M
4 to 5 years old	1,164,560 A	272,653 A	292,374 A	U
6 to 10 years old	2,132,024 A	423,129 A	340,000 A	54,375 M
11 to 15 years old	826,721 A	189,086 A	115,892 M	U
16 to 20 years old	417,889 A	112,435 M	U	U
21 years old or more	286,637 A	U	U	U
Don't know	321,906 A	162,700 A	175,103 M	U
Condition of previous hot water tank when replaced				
Still working	1,244,467 A	197,368 A	251,830 A	U
Not working	3,026,204 A	525,316 A	569,205 A	56,471 M
This is the original/first hot water tank	2,428,070 A	742,520 A	343,858 A	70,123 A
Don't know	337,398 A	195,980 A	239,332 A	U
Age of previous hot water tank when replaced				
5 years old or less	393,371 A	U	U	U
6 to 10 years old	647,268 A	107,598 M	131,364 M	U
11 to 15 years old	566,790 A	125,928 M	109,901 M	U
16 to 20 years old	505,306 A	75,902 M	106,941 M	U
21 years old or more	531,741 A	101,452 M	U	U
Don't know	719,127 A	286,689 A	334,392 A	U
Hot water tank with insulation blanket				
Yes	833,518 A	187,193 A	309,459 A	U
No	2,606,902 A	597,826 A	985,187 A	125,237 A
Don't know	U	U	U	U

Table 6.1

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
10,284,746	A	738,361	A	2,804,592	A	3,688,585	A	1,782,278	A	1,270,930	A
875,827	A	160,623	A	179,652	A	185,988	M	120,485	M	229,079	A
	U		U		U		U		U		U
5,381,570	A	639,466	A	2,698,393	A	1,095,610	A	344,377	A	603,723	A
402,641	A	238,268	A		U		U		U		U
5,240,206	A		U	205,381	A	2,636,400	A	1,534,288	A	861,672	A
67,871	M		U		U		U		U		U
	U		U		U		U		U		U
	U		U		U		U		U		U
	U		U		U		U		U		U
2,766,473	A	241,781	A	762,412	A	954,376	A	420,904	A	387,000	A
1,773,891	A	142,364	A	533,109	A	615,000	A	264,695	A	218,723	A
2,949,528	A	174,493	A	890,496	A	1,000,442	A	534,367	A	349,729	A
1,143,083	A	75,967	A	244,896	A	501,134	A	172,855	A	148,231	A
598,519	A	34,709	M	119,825	M	243,177	A	147,239	A	53,570	M
387,577	A	31,795	M		U		U	120,687	A		U
677,653	A	38,610	M	156,059	A	274,950	A	121,531	M	86,503	M
1,736,407	A	99,144	A	442,468	A	790,412	A	224,323	A	180,061	A
4,177,196	A	374,367	A	1,383,488	A	1,265,810	A	624,765	A	528,765	A
3,584,571	A	226,720	A	757,693	A	1,350,366	A	803,968	A	445,824	A
798,551	A	39,489	M	220,943	A	289,455	A	129,222	A	119,443	A
446,213	A	54,776	A	161,969	A	108,482	M	66,806	M		U
894,867	A	106,140	A	295,492	A	225,082	A	116,636	A	151,517	A
813,212	A	62,518	A	308,372	A	226,875	A	101,809	A	113,638	A
696,432	A	51,072	A	271,007	A	185,341	A	117,158	A	71,855	A
756,932	A	54,716	A	195,918	A	284,119	A	134,947	A	87,234	M
1,368,091	A	84,633	A	371,674	A	525,366	A	216,633	A	169,785	A
1,364,320	A	107,344	A	718,301	A	292,187	A		U	207,709	A
4,315,153	A	613,852	A	1,965,966	A	915,042	A	377,517	A	442,777	A
116,625	M		U		U		U		U		U

6.1 Hot water tank and appliances using hot water

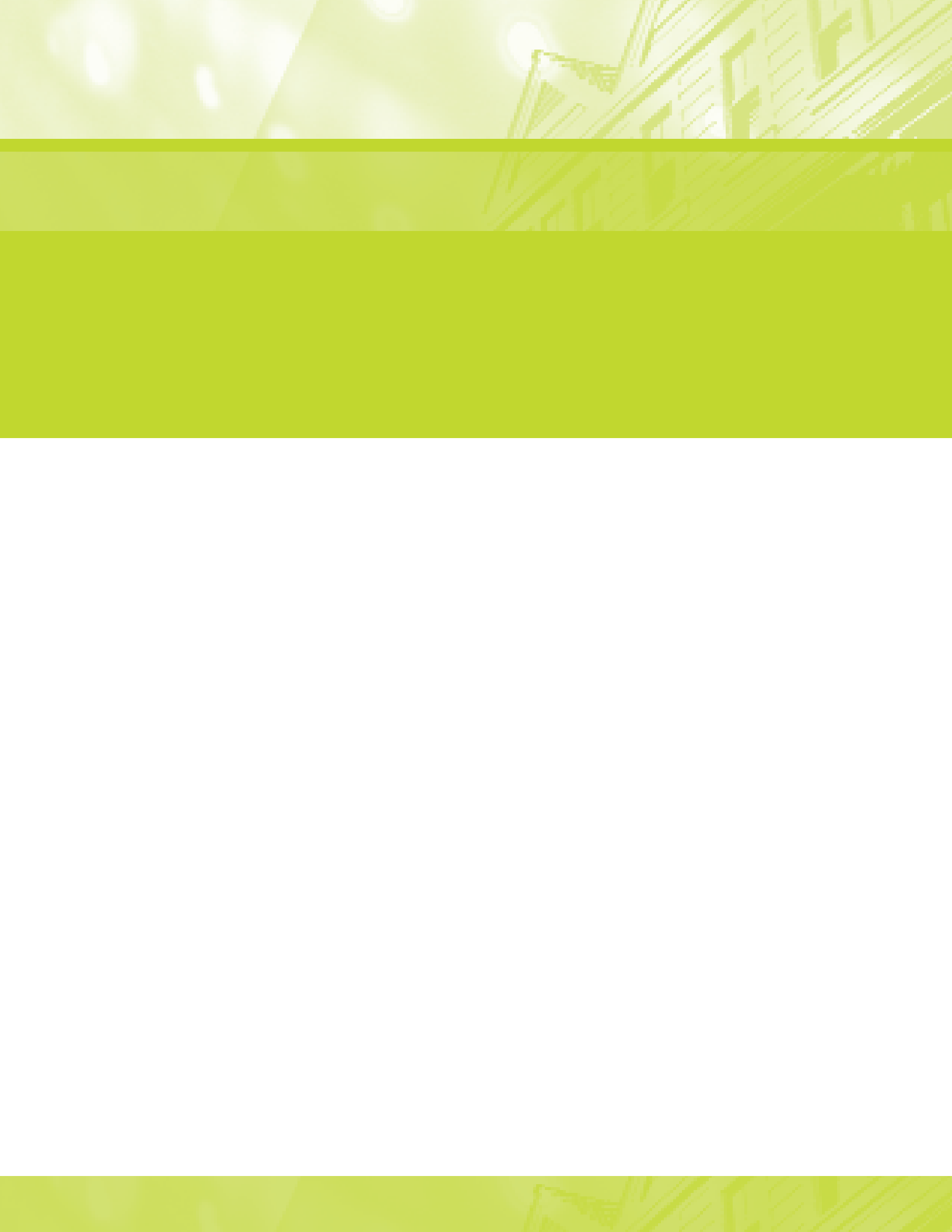
BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households that added insulation blanket around hot water tank in 2003				
Yes	106,801 A	U	U	U
No	716,444 A	152,475 A	246,255 A	U
Don't know	U	U	U	U
Households with add-on insulation around hot water pipes				
Yes	2,367,572 A	517,886 A	279,200 A	82,416 A
No	4,479,156 A	1,073,153 A	1,005,473 A	108,026 A
Don't know	189,412 A	70,146 M	119,551 M	U
Households that added insulation around hot water pipes in 2003				
Yes	327,009 A	90,114 M	U	U
No	2,034,314 A	427,771 A	227,484 A	57,673 M
Don't know	195,661 A	70,146 M	123,647 M	U
Households with a water-saving showerhead				
Yes	4,151,668 A	933,764 A	819,768 A	90,947 A
No	2,972,859 A	775,829 A	1,199,023 A	104,229 A
Don't know	67,012 M	U	U	U
Households with tap attachments to reduce water consumption				
Yes	3,599,596 A	825,570 A	635,815 A	78,075 A
No	3,577,828 A	887,953 A	1,409,702 A	117,101 A
Don't know	U	U	U	U

Table 6.1 (cont. 2/2)

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
204,364	A		U		U		U		U	65,483	M
1,142,735	A	88,972	A	637,301	A	250,885	A		U	140,534	A
133,845	M		U		U		U		U		U
3,247,074	A	222,929	A	824,246	A	1,457,618	A	380,938	A	361,344	A
6,665,809	A	499,881	A	1,871,906	A	2,074,517	A	1,363,246	A	856,260	A
383,842	A		U	108,441	A	163,908	M		U		U
489,076	A	34,453	A		U	264,188	A		U	83,285	A
2,747,242	A	187,737	A	740,684	A	1,187,508	A	354,945	A	276,368	A
394,599	A		U	108,441	A	169,829	M		U		U
5,996,147	A	462,626	A	1,538,878	A	2,368,228	A	829,965	A	796,450	A
5,051,941	A	429,526	A	1,413,726	A	1,468,718	A	1,051,041	A	688,929	A
121,301	M		U		U		U		U		U
5,139,056	A	393,123	A	1,089,689	A	2,036,559	A	837,023	A	782,662	A
5,992,585	A	506,357	A	1,876,553	A	1,833,407	A	1,058,921	A	717,347	A
	U		U		U		U		U		U





SECTION

7

Lighting

7.1 Light bulbs

BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households with ordinary light bulbs				
Yes	7,143,078 A	1,709,046 A	2,045,685 A	193,603 A
No	U	U	U	U
Don't know	U	U	U	U
Number of ordinary light bulbs				
0	U	U	U	U
1 to 10	1,170,115 A	485,030 A	1,161,370 A	61,179 M
11 to 20	2,530,081 A	665,728 A	780,881 A	105,961 A
21 to 30	1,830,868 A	356,073 A	U	U
31 or more	1,612,014 A	202,214 A	U	U
Don't know	U	U	U	U
Households with halogen light bulbs				
Yes	3,669,088 A	792,258 A	815,614 A	56,885 M
No	3,510,212 A	929,158 A	1,245,643 A	138,291 A
Don't know	U	U	U	U
Number of halogen light bulbs				
0	3,510,212 A	929,158 A	1,245,643 A	138,291 A
1 to 5 bulbs	2,423,566 A	586,094 A	687,299 A	46,781 M
6 bulbs or more	1,245,522 A	206,164 A	128,315 M	U
Don't know	U	U	U	U
Households with compact fluorescent lights				
Yes	2,561,402 A	556,440 A	360,517 A	74,827 M
No	4,625,860 A	1,164,976 A	1,700,740 A	120,349 A
Don't know	U	U	U	U
Number of compact fluorescent lights used				
0	4,625,860 A	1,164,976 A	1,700,740 A	120,349 A
1 to 5 bulbs	1,861,941 A	438,506 A	300,521 A	67,586 M
6 bulbs or more	699,461 A	117,934 M	U	U
Don't know	U	U	U	U
Households with fluorescent lights (excluding compact fluorescent lights)				
Yes	4,742,501 A	845,368 A	777,511 A	87,228 A
No	2,444,610 A	875,027 A	1,283,746 A	107,948 A
Don't know	U	U	U	U
Number of fluorescent lights (excluding compact fluorescent lights)				
0	2,444,610 A	875,027 A	1,283,746 A	107,948 A
1 to 5 bulbs	3,522,829 A	702,792 A	737,697 A	79,678 A
6 bulbs or more	1,219,671 A	142,576 M	U	U
Don't know	U	U	U	U

Table 7.1

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
11,091,412	A	897,199	A	2,961,177	A	3,854,770	A	1,895,796	A	1,482,469	A
64,971	M		U		U		U		U		U
	U		U		U		U		U		U
64,971	M		U		U		U		U		U
2,877,694	A	172,000	A	1,015,902	A	844,065	A	428,763	A	416,964	A
4,082,652	A	377,546	A	1,146,521	A	1,335,649	A	712,454	A	510,481	A
2,297,404	A	201,238	A	478,709	A	906,229	A	456,024	A	255,204	A
1,833,663	A	146,415	A	320,045	A	768,828	A	298,555	A	299,820	A
	U		U		U		U		U		U
5,333,845	A	272,028	A	1,745,404	A	1,735,814	A	798,929	A	781,670	A
5,823,304	A	628,314	A	1,237,401	A	2,135,416	A	1,103,834	A	718,339	A
	U		U		U		U		U		U
5,823,304	A	628,314	A	1,237,401	A	2,135,416	A	1,103,834	A	718,339	A
3,743,739	A	221,160	A	1,155,712	A	1,183,529	A	636,600	A	546,738	A
1,590,106	A	50,868	A	589,692	A	552,285	A	162,328	A	234,932	A
	U		U		U		U		U		U
3,553,186	A	199,082	A	721,815	A	1,274,459	A	657,361	A	700,469	A
7,611,926	A	701,260	A	2,262,429	A	2,603,295	A	1,245,402	A	799,540	A
	U		U		U		U		U		U
7,611,926	A	701,260	A	2,262,429	A	2,603,295	A	1,245,402	A	799,540	A
2,668,554	A	163,837	A	591,094	A	854,828	A	522,890	A	535,905	A
884,632	A	35,245	M	130,721	M	419,631	A	134,471	A	164,564	A
	U		U		U		U		U		U
6,452,608	A	390,576	A	1,527,871	A	2,394,414	A	1,139,211	A	1,000,536	A
4,711,331	A	509,766	A	1,456,373	A	1,485,316	A	763,552	A	496,324	A
	U		U		U		U		U		U
4,711,331	A	509,766	A	1,456,373	A	1,485,316	A	763,552	A	496,324	A
5,042,996	A	333,738	A	1,272,615	A	1,849,321	A	811,908	A	775,414	A
1,409,611	A	56,837	A	255,256	A	545,093	A	327,303	A	225,122	A
	U		U		U		U		U		U

7.3 Light bulb usage levels and wattage

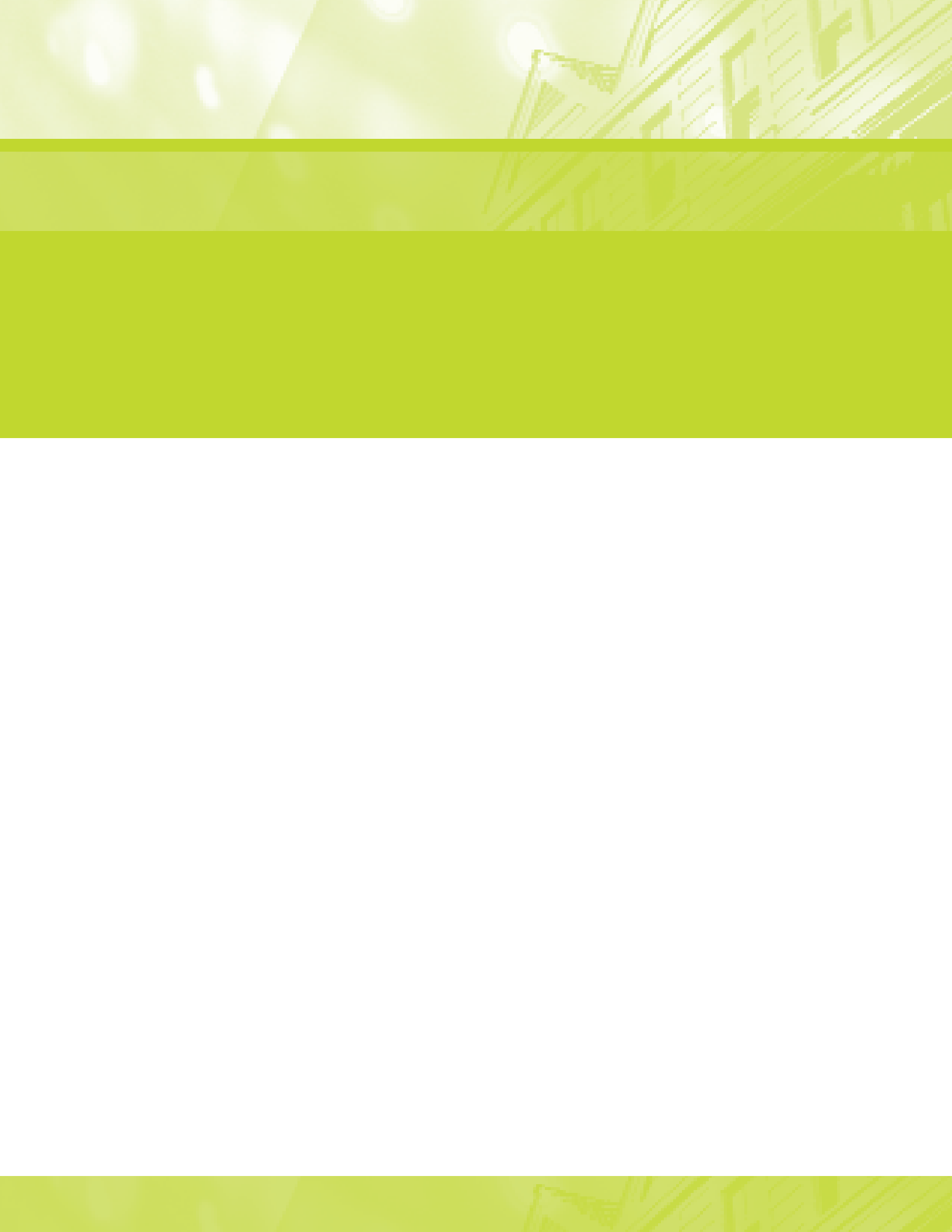
BY TYPE OF DWELLING

	Single detached	Double/row house	Apartment	Mobile home
Households that use ordinary light bulbs for more than three hours				
Yes	4,385,465 A	1,079,866 A	1,351,388 A	121,637 A
No	2,804,993 A	639,108 A	709,869 A	73,539 A
Don't know	U	U	U	U
Households with ordinary light bulbs used more than three hours a day in standard socket				
Yes	3,819,864 A	971,496 A	1,198,396 A	116,566 A
No	558,054 A	108,370 M	152,992 A	U
Don't know	U	U	U	U
Number of ordinary light bulbs used more than three hours a day in standard sockets				
1 to 5 bulbs	2,826,961 A	785,109 A	1,108,121 A	96,668 A
6 to 10 bulbs	828,946 A	163,994 A	81,578 M	U
11 bulbs or more	160,128 A	U	U	U
Don't know	U	U	U	U
Wattage of main ordinary light bulb used more than three hours a day in standard socket				
25 to 75 watts	3,009,895 A	784,372 A	965,852 A	88,569 A
76 to 120 watts	717,633 A	174,623 A	191,426 A	U
121 watts or more	U	U	U	U
Don't know	U	U	U	U
Use of main ordinary light bulb used more than three hours a day in standard socket				
3 to 5 hours	2,308,429 A	532,605 A	698,572 A	53,035 M
6 to 10 hours	1,207,971 A	374,161 A	397,923 A	45,206 M
11 to 24 hours	251,720 A	U	92,328 M	U
Don't know	U	U	U	U
Wattage of secondary ordinary light bulb used more than three hours a day in standard socket				
25 to 75 watts	2,606,125 A	562,218 A	674,224 A	81,320 A
76 to 120 watts	426,037 A	143,429 A	94,834 M	U
121 watts or more	U	U	U	U
Don't know	95,228 M	U	U	U
Use of secondary ordinary light bulb used more than three hours a day in standard socket				
3 to 5 hours	2,453,422 A	517,743 A	628,351 A	78,903 A
6 to 10 hours	517,481 A	131,438 A	122,551 M	U
11 to 24 hours	75,850 M	U	U	U
Don't know	111,258 M	U	U	U

Table 7.3

BY REGION

Canada		Atlantic		Quebec		Ontario		Prairies		British Columbia	
6,938,356	A	546,241	A	2,024,698	A	2,299,080	A	1,154,075	A	914,261	A
4,227,509	A	354,101	A	957,103	A	1,582,951	A	748,688	A	584,666	A
	U		U		U		U		U		U
6,106,321	A	502,285	A	1,699,165	A	2,002,587	A	1,075,928	A	826,356	A
824,488	A	43,956	A	322,165	A	295,006	A	78,147	A	85,214	A
	U		U		U		U		U		U
4,816,859	A	361,046	A	1,398,302	A	1,565,454	A	831,149	A	660,909	A
1,091,325	A	106,642	A	260,265	A	379,879	A	208,417	A	136,122	A
192,042	A	34,597	A		U		U		U		U
	U		U		U		U		U		U
4,848,689	A	425,167	A	1,352,528	A	1,649,555	A	833,785	A	587,653	A
1,111,677	A	71,139	A	321,055	A	300,948	A	207,709	A	210,826	A
110,424	M		U		U		U		U		U
	U		U		U		U		U		U
3,592,641	A	246,842	A	969,902	A	1,186,744	A	695,408	A	493,745	A
2,025,261	A	201,415	A	571,197	A	675,738	A	302,174	A	274,737	A
425,318	A	53,175	A	143,263	M	123,896	M	51,206	M	53,777	M
	U		U		U		U		U		U
3,923,887	A	342,343	A	1,142,062	A	1,337,582	A	606,191	A	495,709	A
682,811	A	56,050	A	140,582	M	186,682	A	194,578	A	104,918	A
	U		U		U		U		U		U
119,485	M		U		U		U		U		U
3,678,419	A	314,990	A	965,408	A	1,223,109	A	682,687	A	492,226	A
790,454	A	66,427	A	257,061	A	259,063	A	110,580	A	97,324	A
142,701	M		U		U		U		U		U
157,397	M		U		U		U		U		U





SECTION

8

**Energy Consumption
and Energy Intensity**

8.1

Total energy consumption (GJ) and total energy intensity (GJ/m²) by region

TOTAL ENERGY CONSUMPTION (GJ)^a

	Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
Total	1,381,387,172 A	110,021,696 A	295,614,183 A	536,659,798 A	279,288,330 A	159,803,165 A
Type of dwelling						
Single detached	989,469,153 A	78,325,438 A	171,198,397 A	407,482,770 A	217,326,951 A	115,135,597 A
Double/row house	193,354,228 A	8,827,313 M	46,329,903 A	85,936,516 A	33,898,503 M	18,361,993 M
Apartment	180,670,210 A	U	75,815,548 A	U	U	23,333,710 M
Mobile home	17,893,581 A	U	U	U	U	U
Construction period						
Before 1946	209,309,834 A	26,956,645 M	48,865,719 M	83,310,666 M	36,586,958 A	U
1946–1969	397,759,871 A	20,406,707 A	92,162,307 A	168,333,275 A	82,159,406 A	34,698,175 A
1970–1979	278,932,719 A	24,354,897 A	67,240,037 A	94,546,262 M	61,946,201 A	30,845,321 A
1980–1989	234,334,071 A	16,264,593 A	44,488,147 A	92,414,195 A	47,403,268 M	33,763,868 A
1990–2003	261,050,677 A	22,038,854 M	42,857,972 A	98,055,401 A	51,192,496 A	46,905,954 A
Type of population centre						
Urban	1,164,348,155 A	77,376,185 A	252,944,631 A	466,959,075 A	226,207,642 A	140,860,623 A
Rural	217,039,016 A	32,645,512 A	42,669,552 A	69,700,723 A	53,080,688 A	18,942,541 M
Household income						
Less than \$20,000	103,180,773 A	17,397,138 M	25,421,041 M	U	18,234,857 M	12,416,479 M
\$20,000 to \$39,999	210,707,665 A	19,755,618 A	55,001,597 A	70,917,742 A	43,904,017 A	21,128,691 M
\$40,000 to \$59,999	217,397,392 A	19,248,707 A	45,061,492 A	78,683,247 M	53,399,512 A	21,004,435 A
\$60,000 to \$79,999	183,207,924 A	12,265,045 A	33,816,219 A	73,062,739 A	38,228,316 A	25,835,605 M
\$80,000 or more	587,391,835 A	38,064,590 A	123,683,411 A	250,195,525 A	104,674,843 A	70,773,465 A
Not stated	79,501,583 A	U	U	34,089,288 M	U	U
Occupation mode						
Owner	1,111,289,174 A	81,551,916 A	208,793,178 A	456,096,867 A	233,940,893 A	130,906,319 A
Renter	270,070,393 A	28,469,781 M	86,821,005 A	80,562,931 M	45,347,436 M	28,869,240 A
Not stated	U	U	U	U	U	U
Household size						
1 member	237,166,578 A	27,470,196 A	53,117,994 A	74,213,811 A	52,741,584 A	29,622,992 A
2 members	493,627,047 A	40,211,575 A	120,508,314 A	177,959,916 A	96,542,820 A	58,404,422 A
3 members	216,426,974 A	16,569,873 A	40,304,497 A	86,067,527 A	49,882,479 A	23,602,597 A
4 members or more	434,166,573 A	25,770,052 A	81,683,378 A	198,418,543 A	80,121,447 A	48,173,153 A

Table 8.1

TOTAL ENERGY INTENSITY (GJ/M²)

Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
1.01 A	1.06 A	0.94 A	0.99 A	1.31 A	0.80 A
1.00 A	0.95 A	0.96 A	0.98 A	1.32 A	0.80 A
0.95 A	0.92 M	0.91 A	0.96 A	1.24 M	0.74 M
1.10 A	U	0.95 A	U	U	0.86 M
1.01 A	U	U	U	U	U
1.09 A	1.16 M	0.98 M	1.15 M	1.21 A	U
1.15 A	1.10 A	1.10 A	1.12 A	1.54 A	0.87 A
1.05 A	1.10 A	1.01 A	1.04 M	1.32 A	0.79 A
0.87 A	0.82 A	0.76 A	0.87 A	1.29 M	0.74 A
0.87 A	1.09 M	0.80 A	0.82 A	1.12 A	0.79 A
1.03 A	1.23 A	0.98 A	1.01 A	1.33 A	0.82 A
0.89 A	0.80 A	0.77 A	0.90 A	1.23 A	0.68 M
1.06 A	1.38 M	0.89 M	U	1.39 M	0.73 M
1.07 A	1.04 A	0.94 A	1.13 A	1.41 A	0.83 M
1.06 A	0.97 A	0.96 A	1.08 M	1.42 A	0.73 A
0.97 A	1.27 A	0.84 A	0.95 A	1.19 A	0.89 M
0.97 A	0.99 A	0.95 A	0.94 A	1.23 A	0.79 A
1.05 A	U	U	0.92 M	U	U
1.00 A	0.95 A	0.96 A	0.97 A	1.28 A	0.82 A
1.06 A	1.56 M	0.91 A	1.17 M	1.45 M	0.71 A
U	U	U	U	U	U
1.04 A	1.32 A	0.95 A	0.97 A	1.45 A	0.78 A
1.02 A	0.99 A	0.97 A	1.03 A	1.32 A	0.81 A
0.97 A	0.95 A	0.83 A	0.99 A	1.31 A	0.76 A
0.99 A	1.01 A	0.97 A	0.98 A	1.22 A	0.81 A

8.2

Total energy consumption (GJ) and total energy intensity (GJ/m²) by type of dwelling

TOTAL ENERGY CONSUMPTION (GJ)^a

	Single detached	Double/row house	Apartment	Mobile home
Region				
Atlantic	78,325,438 A	8,827,313 M	U	U
Quebec	171,198,397 A	46,329,903 A	75,815,548 A	U
Ontario	407,482,770 A	85,936,516 A	U	U
Prairies	217,326,951 A	33,898,503 M	U	U
British Columbia	115,135,597 A	18,361,993 M	23,333,710 M	U
Construction period				
Before 1946	148,245,492 A	28,788,835 M	U	U
1946–1969	291,738,746 A	44,878,574 M	59,138,419 M	U
1970–1979	187,451,766 A	45,524,652 M	U	9,888,478 M
1980–1989	165,623,267 A	38,227,989 M	27,634,967 M	U
1990–2003	196,409,882 A	35,934,178 M	23,466,868 M	U
Type of population centre				
Urban	791,810,916 A	185,480,871 A	175,650,334 A	9,319,409 M
Rural	197,658,237 A	U	U	8,574,173 M
Household income				
Less than \$20,000	47,942,642 A	35,875,636 M	15,950,347 M	U
\$20,000 to \$39,999	118,244,422 A	54,254,368 M	33,345,843 A	U
\$40,000 to \$59,999	144,075,678 A	U	40,465,837 M	U
\$60,000 to \$79,999	135,500,138 A	U	32,155,501 A	U
\$80,000 or more	478,911,827 A	38,471,090 M	64,245,415 A	U
Not stated	64,794,445 A	U	U	U
Occupation mode				
Owner	943,572,705 A	120,788,461 A	30,533,774 M	16,394,234 A
Renter	45,896,448 A	72,538,161 M	148,049,809 A	U
Not stated	U	U	U	U
Household size				
1 member	114,452,108 A	33,984,454 M	84,314,441 M	U
2 members	358,830,365 A	62,344,240 A	62,948,487 M	7,417,330 M
3 members	164,782,645 A	33,711,868 A	15,645,467 M	U
4 members or more	351,404,034 A	63,313,667 M	15,675,189 M	U
Heated area of dwelling				
56 square metres or less (600 square feet or less)	19,183,833 M	U	43,290,068 M	U
56 to 93 square metres (601 to 1,000 square feet)	181,100,288 A	46,684,921 A	81,981,718 M	8,265,708 A
93 to 139 square metres (1,001 to 1,500 square feet)	364,212,741 A	83,438,176 A	33,682,293 M	7,407,456 M
139 to 186 square metres (1,501 to 2,000 square feet)	217,701,975 A	31,462,157 M	U	U
186 to 232 square metres (2,001 to 2,500 square feet)	85,460,479 A	U	U	U
232 or more square metres (2,501 or more square feet)	121,809,837 A	U	U	U

Table 8.2

TOTAL ENERGY INTENSITY (GJ/M²)

	Single detached	Double/row house	Apartment	Mobile home	
	0.95 A	0.92 M	U	U	
	0.96 A	0.91 A	0.95 A	U	
	0.98 A	0.96 A	U	U	
	1.32 A	1.24 M	U	U	
	0.80 A	0.74 M	0.86 M	U	
	1.07 A	0.96 M	U	U	
	1.16 A	1.01 M	1.25 M	U	
	1.09 A	0.98 M	U	1.09 M	
	0.85 A	1.03 M	0.86 M	U	
	0.87 A	0.81 M	1.02 M	U	
	1.04 A	0.95 A	1.10 A	1.02 M	
	0.88 A	U	U	0.99 M	
	0.98 A	1.06 M	1.21 M	U	
	1.05 A	0.92 A	1.27 M	U	
	1.05 A	0.99 M	U	U	
	0.99 A	0.95 A	U	U	
	0.98 A	0.91 A	0.87 M	U	
	1.03 A	U	U	U	
	1.01 A	0.94 A	0.88 M	0.99 A	
	0.96 A	0.98 M	1.15 A	U	
	U	U	U	U	
	1.01 A	1.00 M	1.12 M	U	
	1.02 A	0.94 A	1.18 M	0.94 M	
	1.01 A	0.88 A	0.80 M	U	
	0.99 A	0.99 M	1.07 M	U	
	1.83 M	U	1.63 M	U	
	1.36 A	1.14 A	1.12 M	1.02 A	
	1.11 A	0.90 A	0.92 M	0.98 M	
	0.90 A	0.81 M	U	U	
	0.81 A	U	U	U	
	0.74 A	U	U	U	

8.3

Total electricity consumption (GJ) and total electricity intensity (GJ/m²) by region

TOTAL ELECTRICITY CONSUMPTION (GJ)

	Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
Total	534,044,816 A	49,243,814 A	202,723,538 A	158,465,528 A	63,484,823 A	60,127,113 A
Type of dwelling						
Single detached	372,425,854 A	36,560,902 A	123,710,747 A	119,562,740 A	49,791,387 A	42,800,078 A
Double/row house	75,364,807 A	4,683,035 A	32,372,134 A	24,356,630 A	6,466,971 A	7,486,036 A
Apartment	76,911,109 A	6,334,008 M	44,387,394 A	13,873,710 M	4,252,102 M	8,063,894 A
Mobile home	9,343,046 A	1,665,868 M	U	U	2,974,363 M	U
Construction period						
Before 1946	69,042,664 A	7,387,757 A	26,700,408 A	20,784,040 A	9,110,830 A	5,059,628 M
1946–1969	135,810,403 A	7,933,404 A	52,879,049 A	45,090,406 A	17,249,549 A	12,657,995 A
1970–1979	113,780,986 A	11,773,575 A	45,460,569 A	31,115,908 A	13,591,991 A	11,838,942 A
1980–1989	109,030,901 A	10,297,043 A	41,487,341 A	31,274,872 A	12,245,632 A	13,726,013 A
1990–2003	106,379,862 A	11,852,034 A	36,196,171 A	30,200,301 A	11,286,821 A	16,844,535 A
Type of population centre						
Urban	426,645,442 A	33,101,166 A	168,967,865 A	128,723,913 A	45,794,653 A	50,057,844 A
Rural	107,399,373 A	16,142,648 A	33,755,673 A	29,741,614 A	17,690,170 A	10,069,269 M
Household income						
Less than \$20,000	44,810,838 A	8,408,373 A	16,935,520 A	10,857,868 M	4,280,417 M	4,328,660 A
\$20,000 to \$39,999	80,207,549 A	7,900,688 A	34,530,142 A	19,197,570 A	11,257,987 A	7,321,162 A
\$40,000 to \$59,999	78,716,459 A	9,353,256 A	28,816,854 A	21,082,693 A	10,551,094 A	8,912,562 M
\$60,000 to \$79,999	70,249,788 A	4,896,976 A	26,426,975 A	21,463,552 A	8,296,213 A	9,166,072 M
\$80,000 or more	235,833,150 A	17,104,534 A	89,129,715 A	76,307,079 A	25,203,806 A	28,088,017 A
Not stated	24,227,032 A	U	U	9,556,766 M	3,895,305 M	U
Occupation mode						
Owner	422,137,091 A	38,180,909 A	151,176,222 A	131,617,719 A	54,149,052 A	47,013,188 A
Renter	111,880,119 A	11,062,905 A	51,547,316 A	26,847,808 A	9,335,771 A	13,086,320 A
Not stated	U	U	U	U	U	U
Household size						
1 member	89,197,403 A	12,042,962 A	33,647,413 A	22,168,185 A	10,550,736 A	10,788,106 A
2 members	187,903,966 A	16,517,323 A	77,167,159 A	50,471,385 A	22,638,884 A	21,109,214 A
3 members	91,470,598 A	9,260,745 A	31,094,674 A	29,773,401 A	11,505,247 A	9,836,530 A
4 members or more	165,472,849 A	11,422,783 A	60,814,291 A	56,052,556 A	18,789,956 A	18,393,263 A

Table 8.3

TOTAL ELECTRICITY INTENSITY (GJ/M²)

Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
0.39 A	0.47 A	0.65 A	0.29 A	0.30 A	0.30 A
0.38 A	0.45 A	0.69 A	0.29 A	0.30 A	0.30 A
0.37 A	0.49 A	0.63 A	0.27 A	0.24 A	0.30 A
0.47 A	0.65 M	0.55 A	0.43 M	0.28 M	0.30 A
0.53 A	0.61 M	U	U	0.53 M	U
0.36 A	0.32 A	0.53 A	0.29 A	0.30 A	0.33 M
0.39 A	0.43 A	0.63 A	0.30 A	0.32 A	0.32 A
0.43 A	0.53 A	0.68 A	0.34 A	0.29 A	0.30 A
0.41 A	0.52 A	0.71 A	0.29 A	0.34 A	0.30 A
0.35 A	0.58 A	0.67 A	0.25 A	0.25 A	0.28 A
0.38 A	0.52 A	0.66 A	0.28 A	0.27 A	0.29 A
0.44 A	0.39 A	0.61 A	0.38 A	0.41 A	0.36 M
0.46 A	0.67 A	0.60 A	0.42 M	0.33 M	0.25 A
0.41 A	0.41 A	0.59 A	0.31 A	0.36 A	0.29 A
0.38 A	0.47 A	0.61 A	0.29 A	0.28 A	0.31 M
0.37 A	0.51 A	0.65 A	0.28 A	0.26 A	0.32 M
0.39 A	0.44 A	0.69 A	0.29 A	0.30 A	0.31 A
0.32 A	U	U	0.26 M	0.28 M	U
0.38 A	0.44 A	0.69 A	0.28 A	0.30 A	0.30 A
0.44 A	0.61 A	0.54 A	0.39 A	0.30 A	0.32 A
U	U	U	U	U	U
0.39 A	0.58 A	0.60 A	0.29 A	0.29 A	0.29 A
0.39 A	0.41 A	0.62 A	0.29 A	0.31 A	0.29 A
0.41 A	0.53 A	0.64 A	0.34 A	0.30 A	0.32 A
0.38 A	0.45 A	0.72 A	0.28 A	0.29 A	0.31 A

8.3

Total electricity consumption (GJ) and total electricity intensity (GJ/m²) by region

TOTAL ELECTRICITY CONSUMPTION (GJ)

	Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
Heated area of dwelling						
56 square metres or less (600 square feet or less)	29,411,810 A	2,609,860 M	16,195,098 A	U	2,642,894 M	U
56 to 93 square metres (601 to 1,000 square feet)	137,711,704 A	15,906,069 A	69,384,837 A	21,580,207 A	18,751,899 A	12,088,692 A
93 to 139 square metres (1,001 to 1,500 square feet)	192,707,113 A	17,782,559 A	68,065,603 A	59,742,436 A	26,332,774 A	20,783,740 A
139 to 186 square metres (1,501 to 2,000 square feet)	92,268,363 A	7,057,356 A	28,925,419 A	34,245,741 A	10,495,932 A	11,543,915 A
186 to 232 square metres (2,001 to 2,500 square feet)	33,550,728 A	U	U	14,244,056 M	U	4,325,720 M
232 or more square metres (2,501 or more square feet)	48,395,098 A	U	U	22,370,322 M	U	9,703,854 M

8.4

Total electricity consumption (GJ) and total electricity intensity (GJ/m²) by type of dwelling

TOTAL ELECTRICITY CONSUMPTION (GJ)

	Single detached	Double/row house	Apartment	Mobile home
Region				
Atlantic	36,560,902 A	4,683,035 A	6,334,008 M	1,665,868 M
Quebec	123,710,747 A	32,372,134 A	44,387,394 A	U
Ontario	119,562,740 A	24,356,630 A	13,873,710 M	U
Prairies	49,791,387 A	6,466,971 A	4,252,102 M	2,974,363 M
British Columbia	42,800,078 A	7,486,036 A	8,063,894 A	U
Construction period				
Before 1946	46,440,500 A	12,244,858 M	10,357,306 M	U
1946–1969	99,080,907 A	16,999,601 M	19,018,705 M	U
1970–1979	74,184,654 A	17,704,930 A	U	4,637,812 M
1980–1989	74,580,176 A	15,316,568 A	17,093,982 M	U
1990–2003	78,139,617 A	13,098,850 A	13,187,526 A	U
Type of population centre				
Urban	275,641,043 A	71,119,566 A	75,188,134 A	4,696,700 M
Rural	96,784,811 A	U	U	4,646,346 A
Household income				
Less than \$20,000	20,579,518 A	6,510,315 M	16,888,922 A	U
\$20,000 to \$39,999	44,000,039 A	14,425,775 A	19,210,111 A	2,571,623 M
\$40,000 to \$59,999	51,096,701 A	15,760,406 M	9,788,420 A	U
\$60,000 to \$79,999	52,027,646 A	11,213,239 M	6,625,905 M	U
\$80,000 or more	184,622,484 A	25,555,533 A	22,335,357 M	3,319,776 M
Not stated	20,099,465 A	U	U	U
Occupation mode				
Owner	353,754,016 A	43,424,951 A	16,329,012 A	8,629,113 A
Renter	18,671,838 A	31,912,251 A	60,582,096 A	U
Not stated	U	U	U	U
Household size				
1 member	40,990,282 A	12,125,352 A	33,798,098 A	U
2 members	132,939,755 A	25,070,744 A	26,081,471 A	3,811,996 M
3 members	64,050,925 A	16,263,430 A	9,832,386 M	U
4 members or more	134,444,892 A	21,905,281 A	7,199,154 M	U
Heated area of dwelling				
56 square metres or less (600 square feet or less)	8,693,533 A	4,121,148 M	16,237,717 A	U
56 to 93 square metres (601 to 1,000 square feet)	76,302,901 A	20,893,746 A	36,055,630 A	4,459,427 M
93 to 139 square metres (1,001 to 1,500 square feet)	141,662,344 A	32,968,721 A	13,906,902 A	4,169,145 M
139 to 186 square metres (1,501 to 2,000 square feet)	77,887,033 A	10,381,829 M	U	U
186 to 232 square metres (2,001 to 2,500 square feet)	28,521,822 A	U	U	U
232 or more square metres (2,501 or more square feet)	39,358,220 A	U	U	U

Table 8.4

TOTAL ELECTRICITY INTENSITY (GJ/M²)

	Single detached	Double/row house	Apartment	Mobile home	
	0.45 A	0.49 A	0.65 M	0.61 M	
	0.69 A	0.63 A	0.55 A	U	
	0.29 A	0.27 A	0.43 M	U	
	0.30 A	0.24 A	0.28 M	0.53 M	
	0.30 A	0.30 A	0.30 A	U	
	0.33 A	0.41 M	0.46 M	U	
	0.39 A	0.38 M	0.40 M	U	
	0.43 A	0.38 A	U	0.51 M	
	0.38 A	0.42 A	0.53 M	U	
	0.34 A	0.30 A	0.53 A	U	
	0.36 A	0.37 A	0.47 A	0.52 M	
	0.43 A	U	U	0.54 A	
	0.42 A	0.43 M	0.54 A	U	
	0.39 A	0.40 A	0.45 A	0.56 M	
	0.37 A	0.39 M	0.41 A	U	
	0.38 A	0.33 M	0.38 M	U	
	0.38 A	0.36 A	0.51 M	0.53 M	
	0.32 A	U	U	U	
	0.38 A	0.34 A	0.47 A	0.52 A	
	0.39 A	0.43 A	0.46 A	U	
	U	U	U	U	
	0.36 A	0.36 A	0.45 A	U	
	0.38 A	0.38 A	0.47 A	0.48 M	
	0.39 A	0.43 A	0.50 M	U	
	0.38 A	0.35 A	0.49 M	U	
	0.83 A	0.81 M	0.61 A	U	
	0.57 A	0.51 A	0.49 A	0.55 M	
	0.43 A	0.36 A	0.38 A	0.55 M	
	0.32 A	0.27 M	U	U	
	0.27 A	U	U	U	
	0.24 A	U	U	U	

8.5

Total natural gas consumption (GJ) and total natural gas intensity (GJ/m²) by region

TOTAL NATURAL GAS CONSUMPTION (GJ)

	Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
Total	672,548,837 A	U	34,124,861 M	333,021,203 A	212,294,744 A	92,820,325 A
Type of dwelling						
Single detached	494,561,624 A	U	U	250,298,904 A	165,351,945 A	65,734,279 A
Double/row house	105,384,128 A	U	U	60,771,162 A	27,431,533 M	10,751,336 M
Apartment	65,966,137 A	U	U	U	U	U
Mobile home	6,636,947 M	U	U	U	U	U
Construction period						
Before 1946	81,703,031 A	U	U	42,046,800 A	26,907,808 A	U
1946–1969	208,652,830 A	U	U	111,800,797 A	63,937,568 A	19,096,270 A
1970–1979	133,682,650 A	U	U	58,659,909 A	46,920,327 A	16,881,402 A
1980–1989	112,068,674 A	U	U	56,147,624 A	34,952,184 M	19,735,770 A
1990–2003	136,441,652 A	U	U	64,366,073 A	39,576,857 A	29,605,272 M
Type of population centre						
Urban	616,326,478 A	U	U	315,474,801 A	179,967,057 A	86,706,588 A
Rural	56,222,359 A	U	U	17,546,403 M	32,327,688 A	U
Household income						
Less than \$20,000	40,928,903 A	U	U	U	13,713,833 M	U
\$20,000 to \$39,999	96,148,094 A	U	U	45,214,350 A	31,442,451 A	13,470,793 M
\$40,000 to \$59,999	110,440,134 A	U	U	46,836,109 M	42,326,790 M	10,794,899 A
\$60,000 to \$79,999	92,369,384 A	U	U	47,071,952 A	29,435,896 A	15,570,839 M
\$80,000 or more	287,236,623 A	U	U	155,745,141 A	78,522,670 A	39,828,975 A
Not stated	45,425,700 A	U	U	21,978,502 M	U	U
Occupation mode						
Owner	558,714,120 A	U	U	287,144,005 A	177,297,236 A	78,369,604 A
Renter	113,834,716 A	U	U	45,877,199 M	34,997,508 M	14,450,721 M
Not stated	U	U	U	U	U	U
Household size						
1 member	103,773,365 A	U	U	39,761,397 A	41,413,862 M	16,777,726 M
2 members	236,424,922 A	U	U	107,793,726 A	72,848,535 A	35,011,613 A
3 members	103,156,832 A	U	U	51,360,644 A	36,848,299 A	12,814,839 M
4 members or more	229,193,718 A	U	U	134,105,436 A	61,184,048 A	28,216,146 A

Table 8.5

TOTAL NATURAL GAS INTENSITY (GJ/M²)

Canada	Atlantic	Quebec	Ontario	Prairies	British Columbia
0.85 A	U	1.28 M	0.77 A	1.09 A	0.65 A
0.84 A	U	U	0.76 A	1.10 A	0.64 A
0.81 A	U	U	0.75 A	1.02 M	0.64 M
1.03 A	U	U	U	U	U
0.87 M	U	U	U	U	U
0.88 A	U	U	0.84 A	1.00 A	U
0.98 A	U	U	0.90 A	1.28 A	0.72 A
0.92 A	U	U	0.83 A	1.10 A	0.62 A
0.77 A	U	U	0.70 A	1.12 M	0.61 A
0.69 A	U	U	0.62 A	0.91 A	0.65 M
0.85 A	U	U	0.79 A	1.09 A	0.65 A
0.82 A	U	U	0.62 M	1.08 A	U
1.02 A	U	U	U	1.19 M	U
0.99 A	U	U	0.92 A	1.17 A	0.78 M
0.94 A	U	U	0.82 M	1.21 M	0.59 A
0.80 A	U	U	0.73 A	1.02 A	0.71 M
0.78 A	U	U	0.74 A	1.00 A	0.60 A
0.82 A	U	U	0.69 M	U	U
0.82 A	U	U	0.75 A	1.07 A	0.67 A
1.01 A	U	U	1.01 M	1.23 M	0.58 M
U	U	U	U	U	U
0.91 A	U	U	0.76 A	1.29 M	0.69 M
0.91 A	U	U	0.83 A	1.09 A	0.70 A
0.80 A	U	U	0.73 A	1.08 A	0.58 M
0.79 A	U	U	0.75 A	1.00 A	0.61 A

8.6

Total natural gas consumption (GJ) and total natural gas intensity (GJ/m²) by type of dwelling

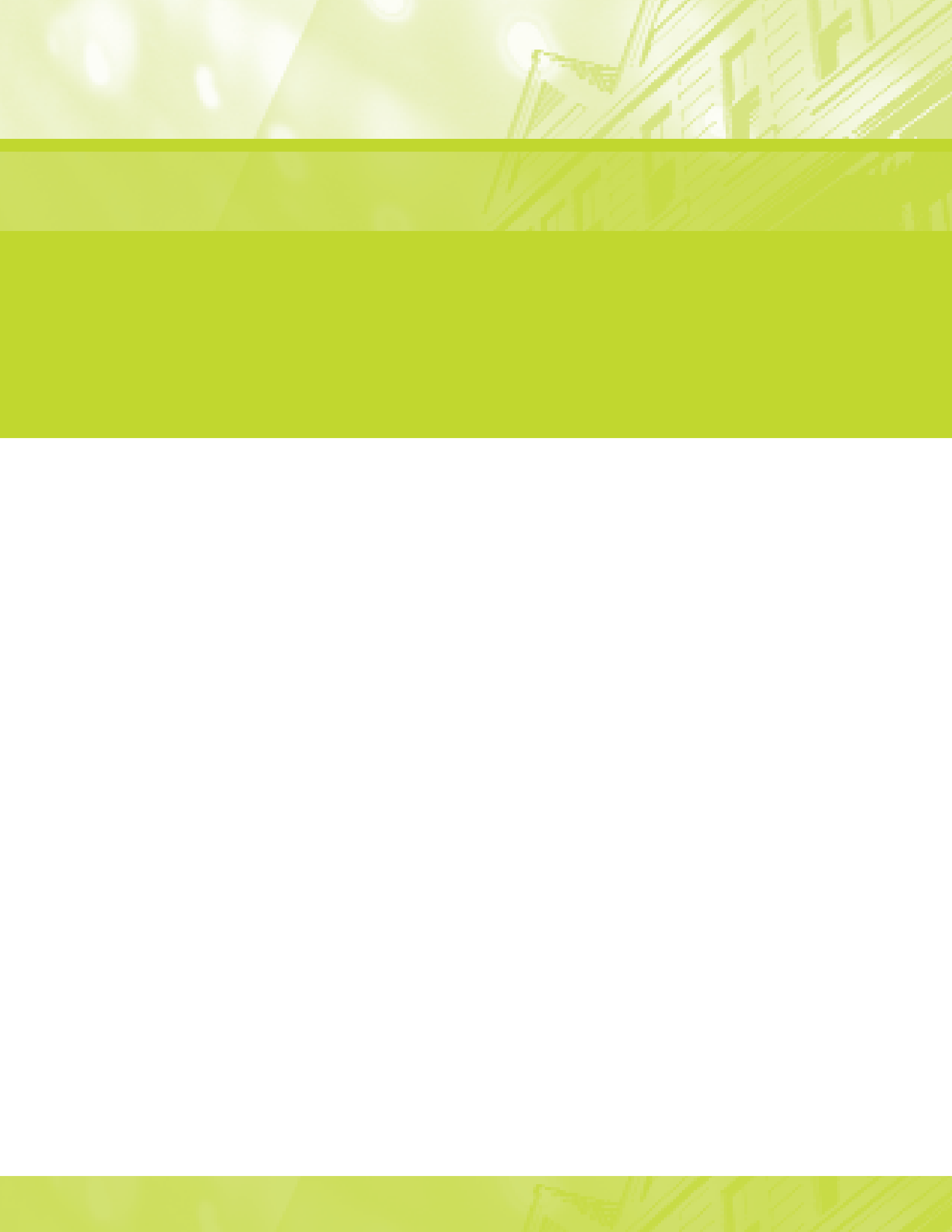
TOTAL NATURAL GAS CONSUMPTION (GJ)

	Single detached	Double/row house	Apartment	Mobile home
Region				
Atlantic	U	U	U	U
Quebec	U	U	U	U
Ontario	250,298,904 A	60,771,162 A	U	U
Prairies	165,351,945 A	27,431,533 M	U	U
British Columbia	65,734,279 A	10,751,336 M	U	U
Construction period				
Before 1946	63,678,950 A	U	U	U
1946–1969	155,104,617 A	22,880,860 M	U	U
1970–1979	90,493,457 A	26,519,923 M	U	U
1980–1989	80,584,775 A	21,777,023 M	U	U
1990–2003	104,699,826 A	22,401,325 M	U	U
Type of population centre				
Urban	442,722,617 A	103,640,183 A	65,864,925 M	U
Rural	51,839,007 A	U	U	U
Household income				
Less than \$20,000	18,546,128 M	U	U	U
\$20,000 to \$39,999	57,105,006 A	13,908,121 M	U	U
\$40,000 to \$59,999	75,480,138 A	U	U	U
\$60,000 to \$79,999	65,665,825 A	20,129,328 M	U	U
\$80,000 or more	239,514,810 A	35,189,929 M	U	U
Not stated	38,249,717 A	U	U	U
Occupation mode				
Owner	471,342,307 A	69,745,898 A	U	6,062,353 M
Renter	23,219,317 A	U	U	U
Not stated	U	U	U	U
Household size				
1 member	54,753,996 A	U	U	U
2 members	171,805,265 A	33,862,881 M	U	U
3 members	82,917,339 A	15,800,048 M	U	U
4 members or more	185,085,024 A	38,340,027 M	U	U
Heated area of dwelling				
56 square metres or less (600 square feet or less)	U	U	U	U
56 to 93 square metres (601 to 1,000 square feet)	87,160,997 A	20,352,948 M	U	U
93 to 139 square metres (1,001 to 1,500 square feet)	170,909,419 A	46,478,032 A	U	U
139 to 186 square metres (1,501 to 2,000 square feet)	113,596,603 A	19,688,566 M	U	U
186 to 232 square metres (2,001 to 2,500 square feet)	47,182,244 A	U	U	U
232 or more square metres (2,501 or more square feet)	69,246,773 A	U	U	U

Table 8.6

TOTAL NATURAL GAS INTENSITY (GJ/M²)

	Single detached	Double/row house	Apartment	Mobile home	
	U	U	U	U	
	U	U	U	U	
	0.76 A	0.75 A	U	U	
	1.10 A	1.02 M	U	U	
	0.64 A	0.64 M	U	U	
	0.87 A	U	U	U	
	0.94 A	0.92 M	U	U	
	0.96 A	0.89 M	U	U	
	0.73 A	0.85 M	U	U	
	0.70 A	0.63 M	U	U	
	0.84 A	0.81 A	1.04 M	U	
	0.83 A	U	U	U	
	1.01 M	U	U	U	
	0.96 A	0.79 M	U	U	
	0.97 A	U	U	U	
	0.80 A	0.72 M	U	U	
	0.78 A	0.77 M	U	U	
	0.80 A	U	U	U	
	0.83 A	0.74 A	U	0.87 M	
	0.88 A	U	U	U	
	U	U	U	U	
	0.92 A	U	U	U	
	0.88 A	0.83 M	U	U	
	0.81 A	0.73 M	U	U	
	0.79 A	0.80 M	U	U	
	U	U	U	U	
	1.29 A	1.05 M	U	U	
	0.96 A	0.74 A	U	U	
	0.75 A	0.68 M	U	U	
	0.63 A	U	U	U	
	0.60 A	U	U	U	

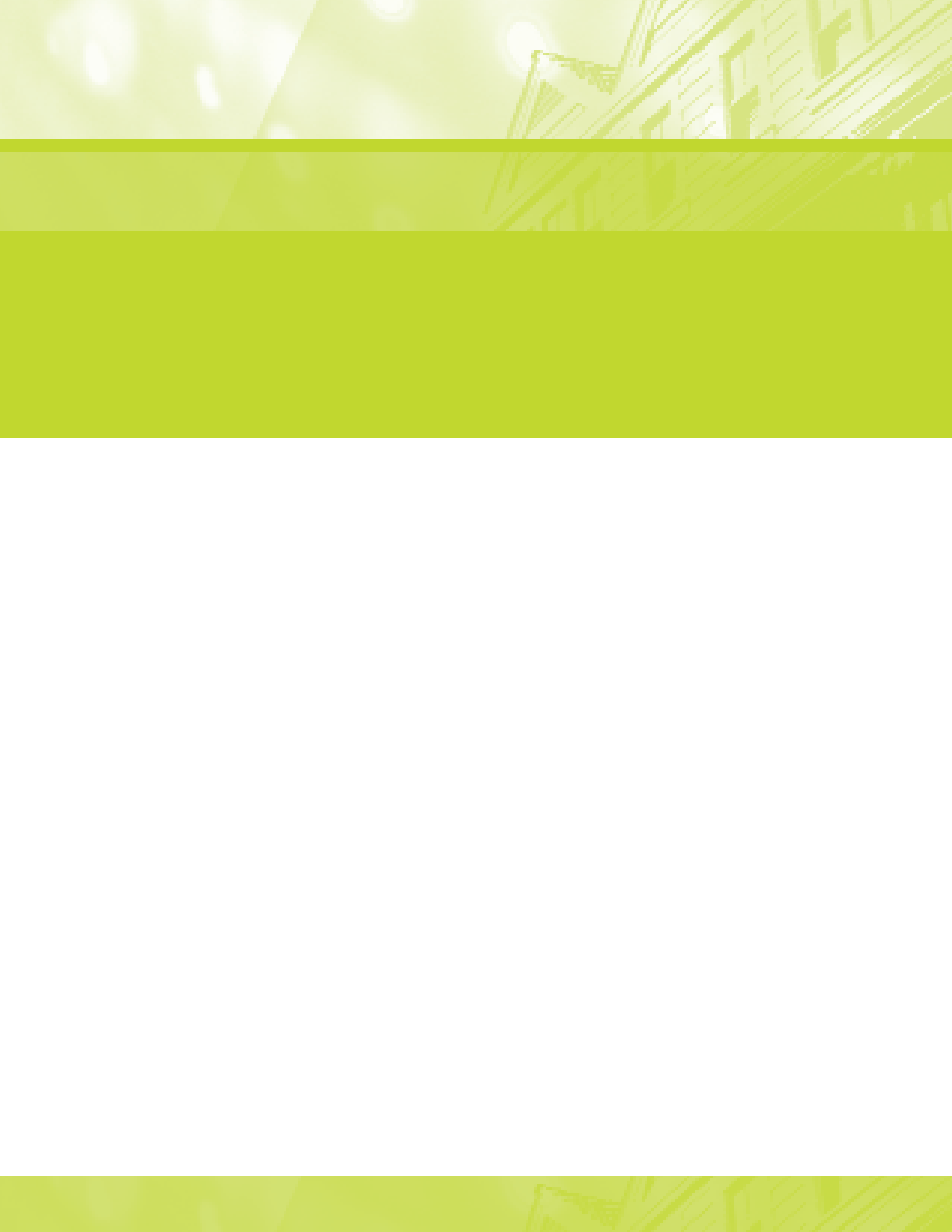




APPENDIX

A

Methodology



Methodology

1. Introduction

In this appendix, we outline the survey methodology used for the 2004 *Survey of Household Energy Use* (SHEU), in particular the activities undertaken and the issues addressed by the methodologists of the Social Survey Methods Division (SSMD) and the Business Survey Methods Division (BSMD) of Statistics Canada.

This survey was conducted in 2004 by Statistics Canada and is therefore referred to in this methodology section as the 2004 *Survey of Household Energy Use* (SHEU-2004). However, the reference period for this survey is the calendar year 2003 (that is, all data presented are for the 2003 calendar year). Therefore, all other sections of this report and the summary report refer to the survey as the 2003 *Survey of Household Energy Use* (SHEU-2003).

This outline has been adapted from a document prepared by Statistics Canada.

To learn more about the methodological concepts or the data quality, please contact:

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2. Pre-collection

The pre-collection period of a survey begins with the initial designing of the project and ends once data collection has started. It is a critical period, for it establishes the foundation for the entire project.

2.1 Survey objectives

The 2004 SHEU builds on the surveys of the same name that were conducted in February 1993 and February 1998. They served to gather data on the energy use characteristics of private dwellings in Canada and on household use of energy resources. The 2004 data will be used to assess the effectiveness of existing energy efficiency programs and to develop new ones.

The target population for the 2004 SHEU was composed of all dwellings that were occupied as primary residences in the 10 Canadian provinces³ and that fit into one of the following categories: single detached, semi-detached, row, mobile, duplex or dwelling in a building with no more than four storeys (the last two categories were not covered in the 1998 edition of the SHEU). Specifically excluded from the survey's coverage were dwellings not mentioned above, dwellings located in a First Nation community or on a military base, businesses, institutions, demolished dwellings, dwellings under construction, seasonal or secondary residences, and dwellings occupied by individuals who work full-time within the Canadian Armed Forces.

As was the case in 1998, the survey sought to obtain energy consumption data directly from suppliers of electricity, natural gas, fuel oil and propane. Signed authorizations from households were required before we could contact the energy suppliers for this data. In the case of tenants, we also had to contact the non-occupant owner for certain pieces of information and to obtain authorization to contact the energy suppliers.

The sample of dwellings for the survey was designed to produce reliable estimates for each of the five large Canadian regions (Atlantic provinces, Quebec, Ontario, Prairie provinces, British Columbia) as well as national estimates for certain aggregate variables, such as groupings by type of dwelling or year built and by rural or urban location.

³ The territories are not included in the target population.

The survey was conducted on behalf of Natural Resources Canada. Respondents, including non-occupant owners, where applicable, were informed of a data-sharing agreement under which Natural Resources Canada would have access to a complete microdata file.

2.2 Survey frame

The two main sources of data first envisaged for the SHEU survey frame were the *Labour Force Survey (LFS)* and the *Canadian Community Health Survey (CCHS)*. One disadvantage of the LFS was that we had to select whole rotation groups if we wanted to avoid unduly complex variance estimation. One significant advantage of the CCHS over the LFS was that the CCHS allowed for obtaining reduced design effects, meaning that the required sample could be reduced, along with the related collection costs. The CCHS was therefore selected as the survey frame for the SHEU.

More specifically, cycle 2.1 of the CCHS was selected because its auxiliary information was current. The CCHS area frame was targeted because its coverage of the territory covered by the SHEU, i.e., the 10 Canadian provinces, was excellent. The respondents for the collection months from January to August 2003 were identified as being available for the SHEU sample.

2.3 Sample design

What follows is an overview of the sample design used for the *2004 Survey of Household Energy Use*.

The SHEU sample was composed of respondents from the area frame of the CCHS who were assigned to collection months ranging from January to August 2003. They were interviewed for the CCHS between January and October 2003 (the number of interviews done in September and October is low because only households previously flagged as unresolved were interviewed during these months). The auxiliary information available for SHEU purposes – type of dwelling, telephone number and occupant type (tenant or owner) – was therefore relatively recent when we established the sample in January 2004; the information had been gathered during the previous

three to twelve months and was six months old on average. The SHEU sample design is a stratified simple random sample plan of CCHS respondents. The SHEU strata definitions are based on the provincial health regions, with some slight modifications to avoid overlap between strata of the LFS and those of the health regions (LFS strata not assigned to a single health region were assigned to one). The sample allocation to SHEU strata was proportional to population estimates. This approach to sample design, pseudo-proportional to the weight, has the advantage of reducing design effects, resulting in estimates of better quality for given sample sizes.

The sample size required to meet the analysis needs summarized in Section 2.1 – keeping in mind the use of the CCHS as survey frame, the proposed survey design and the expected response rate – was 6,433 dwellings. Tables 1 to 5 provide details on the distribution of these dwellings by regional office, province, type of dwelling, CCHS participation and type of population centre.

Table 1

Sample distribution by regional office

Regional office	Frequency	Percentage
Halifax	1,089	16.93%
Montreal	1,398	21.73%
Toronto	1,424	22.14%
Edmonton	1,358	21.11%
Vancouver	1,164	18.09%

Table 2

Sample distribution by province

Province	Frequency	Percentage
Newfoundland and Labrador	252	3.92%
Prince Edward Island	65	1.01%
Nova Scotia	429	6.67%
New Brunswick	343	5.33%
Quebec	1,398	21.73%
Ontario	1,424	22.14%
Manitoba	297	4.62%
Saskatchewan	259	4.03%
Alberta	802	12.47%
British Columbia	1,164	18.09%

Table 3

Sample distribution by type of dwelling

Type of dwelling	Frequency	Percentage
Single detached house	4,125	64.12%
Semi-detached house	317	4.93%
Double/row house	353	5.49%
Duplex	225	3.50%
Apartment in a building with fewer than five storeys	1,231	19.14%
Mobile home	182	2.83%

Table 4

Sample distribution by participation in the Canadian Community Health Survey

Participant	Frequency	Percentage
Selected	1,804	28.04%
Not selected	4,629	71.96%

Table 5

Sample distribution by type of population centre

Type of population centre	Frequency	Percentage
Rural	1,234	19.18%
Urban	5,144	79.96%
Remote	55	0.85%

2.4 Interview method

Given the nature of the survey, interviews had to be conducted in person at the respondents' dwellings, primarily to assist them in answering the questions on the characteristics of their dwelling and to obtain their authorization in writing for us to contact their energy suppliers. However, the regional offices calculated that collecting data from certain respondents would be very costly if they lived in a remote area or if there were not enough interviewers in the region. Statistics Canada's head office examined the requests from the regional offices and in most cases authorized them to conduct the interviews by telephone. The code "authorization for a telephone interview" was given to 138 households, as shown in Table 6. No information was available during or after the survey for determining the number of interviews actually conducted by telephone. In principle, telephone interviews were authorized only for these 138 dwellings, or 2.1 percent of the initial sample of 6,433. In comparison, approximately 3 percent of the 1998 SHEU interviews were done by telephone.

2.5 Questionnaire

The 2004 SHEU questionnaire had two separate parts. The first part, the more detailed of the two, was to be completed by the occupant of the dwelling selected from the sample. The shorter second part was needed for rented dwellings and condominiums.

It was to be completed by the non-occupant owner in the first case and the condominium manager⁴ in the second case, since tenants and condominium occupants did not know, or were unlikely to know, the information it was designed to gather.

The questionnaire was administered by the interviewer using a computer-assisted interview system that provided a set of built-in checks, such as allowable value ranges, to ensure a certain level of quality in the data.

2.6 Letter of introduction to the survey

A letter of introduction summarizing the purpose of the survey was sent out by the regional offices of Statistics Canada to the households selected from the SHEU sample shortly before the data were to be collected. This letter was designed as an incentive to participate in the survey and as an act of courtesy toward the CCHS respondents being sampled again for the SHEU. The address used came from the SHEU frame and matched the address of residence at the time of the CCHS.

Table 6

Distribution of dwellings for which a telephone interview was authorized

Province	Number of dwellings for which a telephone interview was authorized	Initial sample	Proportion of dwellings for which a telephone interview was authorized
Newfoundland and Labrador	20	252	7.9%
Prince Edward Island	0	65	—
Nova Scotia	0	429	—
New Brunswick	0	343	—
Quebec	14	1,398	1.0%
Ontario	50	1,424	3.5%
Manitoba	0	297	—
Saskatchewan	33	259	12.7%
Alberta	18	802	2.2%
British Columbia	3	1,164	0.3%
Total	138	6,433	2.1%

⁴ For the sake of brevity, in the remainder of this report "non-occupant owner" means the non-occupant owner or the condominium manager, as the case may be.

3. Data collection

Data collection includes the work of obtaining information from individuals, households and, for the SHEU, third parties such as non-occupant owners and suppliers of energy resources. It is a costly phase, yet it is extremely important as the quality of the final product depends on it.

The first phase of data collection for the SHEU involved interviewing the occupants of the sampled dwellings and, if applicable, the non-occupant owners. Data were collected from March to June 2004 using computer-assisted personal interviews. A small proportion of interviews was done by telephone, as explained in Section 2.4.

It should be noted that the first phase of the data collection for the 1998 survey was done entirely in March, which could have influenced how the survey questions were answered. For example, the heating and the air conditioning of a dwelling probably change between March and June, and it is possible that the respondent's perception of this, despite the reference to the "heating season" and "summer season" in the survey questionnaire, was influenced by the date of the interview and its separation from the periods referred to in the questions.

The second phase of data collection was coordinated by Statistics Canada's head office. It involved gathering energy consumption data from suppliers in cases where the occupant or non-occupant owner had given his or her consent.

Respondents who took up residence in their dwelling during 2004 were not interviewed but were flagged as non-respondents when the weighting was done. The main reason for this was the fact that they would not have any energy consumption data for the 2003 reference year. Respondents who took up residence in their dwelling in 2003 were interviewed. As expected, their rates of imputation for the energy use variables are higher than the rates for the rest of the sample (except for propane).

3.1 Response rate

In order to define the response rate for the first collection phase, the SHEU sample was first divided into three mutually exclusive groups (see Table 7).

Table 7

Classification of the sample

Group	Definition	Sample
Respondent	Dwelling for which we obtained sufficient data and an authorization for data sharing.	4,551
Non-respondent	Dwelling for which we did not obtain sufficient data or an authorization for data sharing.	1,573
Unit out of scope	A dwelling whose type is incompatible with the survey: dwelling located on a military base or in a business or institution; dwelling vacant, demolished or under construction; seasonal or secondary residence; or dwelling located in a First Nation community or occupied by individuals who work full-time within the Canadian Armed Forces.	309
Total		6,433

We included the criteria of authorization for data sharing in the definition of “respondent” since the rate of authorization was relatively high (98 percent for occupants, 94 percent for non-occupant owners) and so we would have to produce only one file of “sharing” respondents for the survey. Table 8 shows the three types of response rates calculated.

Table 8

Definition of response rates

Rate 1	Raw response rate	= respondents/sample
Rate 2	Intermediate response rate, where out-of-scope units are omitted from the denominator	= respondents/(sample – out-of-scope units)
Rate 3	Operational response rate	= (respondents + out-of-scope units)/sample

It should be noted that these definitions do not accurately reflect the work performed in the field. In fact, interviews classified as “complete” by regional office staff may have been reclassified as “non-respondent” or “out of scope” based on the above criteria.

By definition, these three response rates are necessarily in ascending order, from Rate 1 to Rate 3.

Table 9 summarizes the response rates of the first collection phase and the rate of out-of-scope dwellings, the rate of refusal and the rate of unoccupied dwellings.

Table 9

Response rate and other unweighted rates of the SHEU

Raw response (Rate 1)	70.7%
Intermediate response (Rate 2)	74.3%
Operational response (Rate 3)	75.5%
Rate of out-of-scope dwellings	4.8%
Rate of refusal	9.7%
Rate of unoccupied dwellings	2.5%

3.2 Data sharing

In light of the data-sharing agreement between Statistics Canada and Natural Resources Canada (NRCan), respondents were asked for their authorization to share the gathered information. The question was worded as follows:

Statistics Canada has entered into an agreement with the Office of Energy Efficiency of NRCan to share information from this survey.

NRCan will not be given your name or other identifiers. The information shared with them will contain sufficient geographic detail to allow them to analyse the data for small areas. NRCan has agreed to keep all the information provided confidential and to use it only for statistical purposes.

Do you agree to allow Statistics Canada to share your information with NRCan?

An answer in the affirmative to that question authorized Statistics Canada to share the information gathered with Natural Resources Canada. Table 10 summarizes the rates of authorization for data sharing.

Table 10

Rates of authorization for data sharing

Authorization from occupant of dwelling	98.0%
Authorization from non-occupant owner	94.0%
Combined rate	93.0%

3.3 Rate of consent to contact suppliers of energy resources

Energy consumption data could be obtained in two ways: by consulting the suppliers of electricity, natural gas, fuel oil and propane, with the signed agreement of the respondent (occupant or non-occupant owner), or by entering data from bills or statements of account that the respondent provided to the interviewer for as long as was

required to enter the data. The first method was encouraged in order to obtain more accurate data and to reduce the time spent with the respondent.

Table 11 summarizes the rates of consent to contact the suppliers of energy resources.

Table 11

Rates of consent to contact suppliers of energy resources

	Consent to contact all applicable suppliers	No consent given for one or more suppliers	Total	Rate of consent
Occupant	3,814	526	4,340	87.9%
Non-occupant owner	331	54	385	86.0%
Occupant and non-occupant owner	3,944	569	4,513	87.4%
Occupant and non-occupant owner:				
Electricity	4,021	477	4,498	89.4%
Natural gas	1,928	256	2,184	88.3%
Fuel oil	540	123	663	81.4%
Propane	77	21	98	78.6%

It should be noted that the above rates are based on the answers to questions CESk_Q01 and LCSk_Q01, where k = 1 (electricity), 2 (natural gas), 3 (fuel oil) or 4 (propane). Some dwellings using a given energy source may not have been asked for the corresponding consent, primarily because of conceptual errors in the design of the collection instrument itself. Accordingly, the rates shown are the rates of consent for the dwellings that responded to the request for consent and not for the dwellings that use the energy source in question.

In addition, once consent was given to contact a supplier, various factors may have prevented us from using the data. For example, Statistics Canada's regional offices did not receive some consent forms from the account holders,⁵ and others were received

but not signed (0.8 percent of the forms received: electricity, 0.7 percent; natural gas, 0.6 percent; fuel oil, 1.9 percent; propane, 0.0 percent). Lastly, we estimate that 15 percent of the consumption data requests made to the suppliers were unanswered (electricity, 9 percent; natural gas, 19 percent; fuel oil, 40 percent; propane, 36 percent).

We estimate that for the dwellings using natural gas, only 60 percent of the consumption data was obtained from the supplier. This rate is apparently higher for electricity and lower for fuel oil and propane. Moreover, the rates of data received from the suppliers – amongst dwellings that use a given energy source, before verification and imputation – follow suit, as can be seen in Table 12.

⁵ The probable causes included consent questions improperly marked "yes" and consent forms left at the home for signing by someone absent at the time of the interview and not returned to Statistics Canada.

Table 12

Rates of data received from suppliers, before verification and imputation, by dwellings using the specified energy source

Energy source	Rate
Electricity	76%
Natural gas	64%
Fuel oil	48%
Propane	41%

4. Post-collection

The post-collection period includes all activities undertaken once the data have been collected. The ultimate aim of these activities is to produce a microdata file and documentation that analysts can use to extract the information they need for their work. To that end, many sectors within Statistics Canada contribute in a variety of ways. This is often the most complex phase of a survey, as every action can have an impact on the final quality of the data.

4.1 Processing the data

Processing the data involves a variety of activities with different purposes, such as:

- classifying the sample and identifying the respondents
- formatting the data
- cleaning up paths
- encoding some variables
- establishing the verification rules
- creating derived variables
- imputing

SSMD methodologists classified the sample and the respondents as described in Section 3.1. They also revised some rules for cleaning up the paths, suggested some derived variables and helped the BSMD methodologists verify and impute the data.

n Quality of the data

Overall, the data gathered for the SHEU are of good quality. The reports of the interviewers and the internal consistency of the data attest to this. However, some aspects of the quality of the data and some reservations emerging during the collection and processing phases are worthy of note, as described in the following paragraphs. The reports from the various sectors of the office may reveal other limitations or difficulties inherent to the survey data.

n Modification of type of dwelling between CCHS and SHEU

For 8 percent of the sample of 4,551 SHEU respondents, the type of dwelling changed after the CCHS (January to October 2003) and before the SHEU (March to June 2004). A total of 362 dwellings underwent legitimate transformations, resulting in a change in type of dwelling, or were the subject of variable responses depending on the interviewer or respondent. In particular, it seems that “duplex” and “semi-detached” types of dwellings may have been switched in some cases.

n Person answering the survey questions

When we contacted the household to make an appointment for the interview, we asked that the person who paid the utility bills be there at the time of the interview in order to sign the forms authorizing us to contact suppliers. During the 1998 survey, in comparison, it seems that the appointment for the in-home interview tended toward interviewing the person with the best knowledge of the characteristics of the dwelling, including the appliances and their use, the heating system, the windows and the dwelling area. It is therefore possible that the 2004 approach resulted in interviewing individuals less familiar with some of the characteristics measured by the survey. It is probable that the effect on the quality of the answers is relatively marginal; the rate of “don’t know” answers could be an indicator of this.

n **Non-occupant owner, duplex or apartment**

Preliminary analysis revealed that the quality of the data obtained from occupants is better than the quality of the data obtained from non-occupant owners, particularly regarding duplex dwellings and apartments located in buildings with fewer than five storeys.

n **Heated area**

According to the report “Regional Operations Branch – Interviewers’ Debriefing Summary,” the dwelling area and the building area were sometimes difficult to determine, especially for tenants. The heated portion of the basement was apparently particularly difficult to measure. It is possible that the heated area of the dwelling was difficult to determine because of a lack in the definition used for “heated room.” In addition, the survey was held between March and June, which means that the data on the reported heated area could have been influenced by the month in which the interview was held.

n **Dwelling area and building area**

Inconsistencies have been detected between dwelling area and building area. It is possible that the error stems in part from the respondent’s confusing the terms “logement” and “immeuble” in French or “dwelling” and “building” in English. These inconsistencies have been processed by verification and imputation.

n **Year built, year moved in and age of heating system**

There are some inconsistencies between the year in which the dwelling was built, the year the household moved in and the age of the heating system.

n **Missing data**

Flag variables generated by the software used to assist in data collection were used to confirm dwelling use of any one or more of the four energy

sources targeted by the survey – electricity, natural gas, fuel oil and propane. For approximately 200 dwellings, the variables needed to produce these flags were empty. In these cases, it was uncertain if the dwelling used a specific energy source. In addition, the variables used to determine if the garage or basement was heated were missing for a few dozen dwellings. Because processing all of these cases would have entailed procedures too complex for the time allotted for this work, and since the impact seemed minimal, given the relatively low number of dwellings in question, these cases were declared non-respondent, and their weight was distributed among the respondent dwellings with similar characteristics.

In addition, some questions on household appliances could be answered using the “other – please specify” category without the respondent being asked which energy sources were used for the appliances. This was the case for approximately 300 dwellings, and it is therefore possible that an energy source used only for the appliance in question was not indicated. This could result in a slight underestimation of consumption, in the case of energy sources that could not be ascertained because the questions were omitted. It was recommended that we not use the dwellings affected by this problem as donors when imputing the values of the energy consumption variables.

n **Gas fireplaces**

The survey questionnaire assumed all gas fireplaces use natural gas, while some can use propane. Survey data revealed that 100 dwellings that reported having a gas fireplace did not declare natural gas use for any other equipment type. After re-evaluation, these 100 dwellings were distributed as follows: 40 use natural gas and 60 do not (10 had already indicated they use propane, and 50 will use it from now on).

Imputation

Table 13 summarizes the rates of imputation for the SHEU variables subject to imputation.

Table 13

Rates of imputation

Variable	Description	Imputed records	Non-imputed records	Total	Rate of imputation
DFS_M01	In what year was the dwelling originally built?	558	3,993	4,551	12.26%
DFS_M02	Would you say it was built in . . . ?	31	4,520	4,551	0.68%
SOD_M02	What is the heated area of your basement				
	in square feet/metres?	290	2,175	2,465	11.76%
SOD_M03	Would you say it is . . . ?	71	2,394	2,465	2.88%
SOG_M01	What is the size of the heated area of your indoor				
	garage in square feet/metres?	33	32	65	50.77%
SOG_M02	Would you say it is . . . ?	14	51	65	21.54%
SOD_M06	What (excluding the basement and/or garage) is				
	the heated area of your dwelling in square				
	feet/metres?	563	3,988	4,551	12.37%
SOD_M07	Would you say it is . . . ?	210	4,341	4,551	4.61%
MSTOTDWE	Total dwelling area heated (square feet/metres)	646	3,905	4,551	14.19%
SBD_M01	Excluding the indoor parking, what is the heated				
	area of your building in square feet/metres?	613	184	797	76.91%
SBD_M02	Would you say it is . . . ?	413	384	797	51.82%
MSTOTBLD	Total building area heated (square feet/metres)	615	182	797	77.16%
MELHEGJ	Electricity (GJ) heating cycle	1,132	3,418	4,550	24.88%
MELCOGJ	Electricity (GJ) air-conditioning cycle	1,141	3,409	4,550	25.08%
MELTOGJ	Electricity (GJ) total of both cycles	1,142	3,408	4,550	25.10%
MNGHEGJ	Natural gas (GJ) heating cycle	902	1,378	2,280	39.56%
MNGCOGJ	Natural gas (GJ) air-conditioning cycle	901	1,379	2,280	39.52%
MNGTOGJ	Natural gas (GJ) total of both cycles	903	1,377	2,280	39.61%
MOILTOGJ	Fuel oil total (GJ)	382	323	705	54.18%
MPROTOGJ	Propane total (GJ)	98	52	150	65.33%

It is recommended that the rate of imputation be taken into account when analysing the variables subject to imputation. In this regard, the reader is referred to “Guidelines concerning the quality of estimates” in Section 4.3.

Energy use

In addition to having undergone high rates of imputation, the energy use variables present another difficulty. Based on a number of verifications made by the project manager, it was noted that consumption data could be of lower quality in the case of duplexes and “apartments in a building with fewer than five storeys.” For these dwellings, it seems that the concept “proportion of the building’s consumption attributable to the dwelling” was not very successful. Therefore, the consumption data of dwellings resulting from the application of this proportion to the building’s consumption data could have been incorrectly estimated. The approach in question had not been tested prior to the survey, which could explain its relative lack of success. In addition, the ambiguity between the terms “dwelling” and “building” in English and between “logement” and “immeuble” in French could have contributed to the inaccuracy of the reported proportions.

4.2 Weighting procedures

The weighting of the SHEU sample involved 11 steps:

1. Adjustment of the CCHS subweight to account for the undercoverage of the sampling frame
2. Selection of the SHEU sample
3. Adjustment to account for multiple dwellings
4. Adjustment to account for dwellings whose address was not confirmed
5. Adjustment to account for dwellings whose occupation was not confirmed
6. Adjustment to account for type-1 full non-responses (no data gathered)
7. Adjustment to account for type-2 full non-responses (households who moved into the selected dwelling in 2004)
8. Adjustment to account for type-1 partial non-responses (data on the heating system and hot water tank, used for determining the energy sources used by the dwelling, were missing)
9. Adjustment to account for type-2 partial non-responses (other cases of partial non-response)
10. Initial calibration of weights to produce estimates consistent with CCHS estimates, with two margins: first, the number of dwellings in scope, by province; and second, the number of dwellings based on certain groupings of dwelling types and based on a selected geographic level (national or regional)
11. Second calibration of weights to produce estimates consistent with LFS estimates in 10 domains: grouped type of dwelling (single detached dwellings vs. all others) for each of the usual five infranational regions (Atlantic provinces, Quebec, Ontario, Prairie provinces, British Columbia)

4.3 Variance estimation

Use of Bootvar software

The bootstrap method was used for estimating the SHEU variance. Basically, the 500 bootstrap weights of the CCHS were subjected to the 11 steps of the SHEU weighting procedure, as described in Section 4.2. The resulting bootstrap weights were then used for estimating the SHEU variance. The Bootvar software and its documentation accompany the SHEU microdata file so that the variance estimates can be produced.

Coefficients of variation tables

In keeping with the tradition of the previous Surveys of Household Energy Use, coefficients of variation tables have been created for the usual five

infranational regions and for the 10 provinces as a whole. The estimates provided in these tables are less precise than those obtained with the bootstrap method. The tables are based on an overall design effect by region corresponding to the third quartile of the design effects calculated using Bootvar for 100 variables representative of the SHEU.

Guidelines concerning the quality of estimates

The coefficient of variation of an estimate is obtained with the Bootvar software. In the case of variables that were not imputed, the guidelines in Table 14 apply.

Table 14

Guidelines concerning the quality of the estimate in the case of non-imputed variables

Level of quality of the estimate	Guideline
Acceptable	The estimates are based on a sample of 30 or more units and present low coefficients of variation, between 0.0 and 16.5 percent. Acceptable estimates are marked with the letter A.
Use with caution	The estimates are based on a sample of 30 or more units and present high coefficients of variation, between 16.6 and 33.3 percent. Such estimates are marked with the letter M.
Too unreliable to be published	The estimates are based on a sample with fewer than 30 units, or they present very high coefficients of variation, greater than 33.3 percent. Statistics Canada recommends that such estimates not be released as their quality is unacceptable. Unreliable estimates are marked with the letter U and are accompanied by the following warning: “Estimates marked by the letter U do not meet Statistics Canada’s quality standards. Any conclusion based on this data is not dependable and is most likely invalid.”

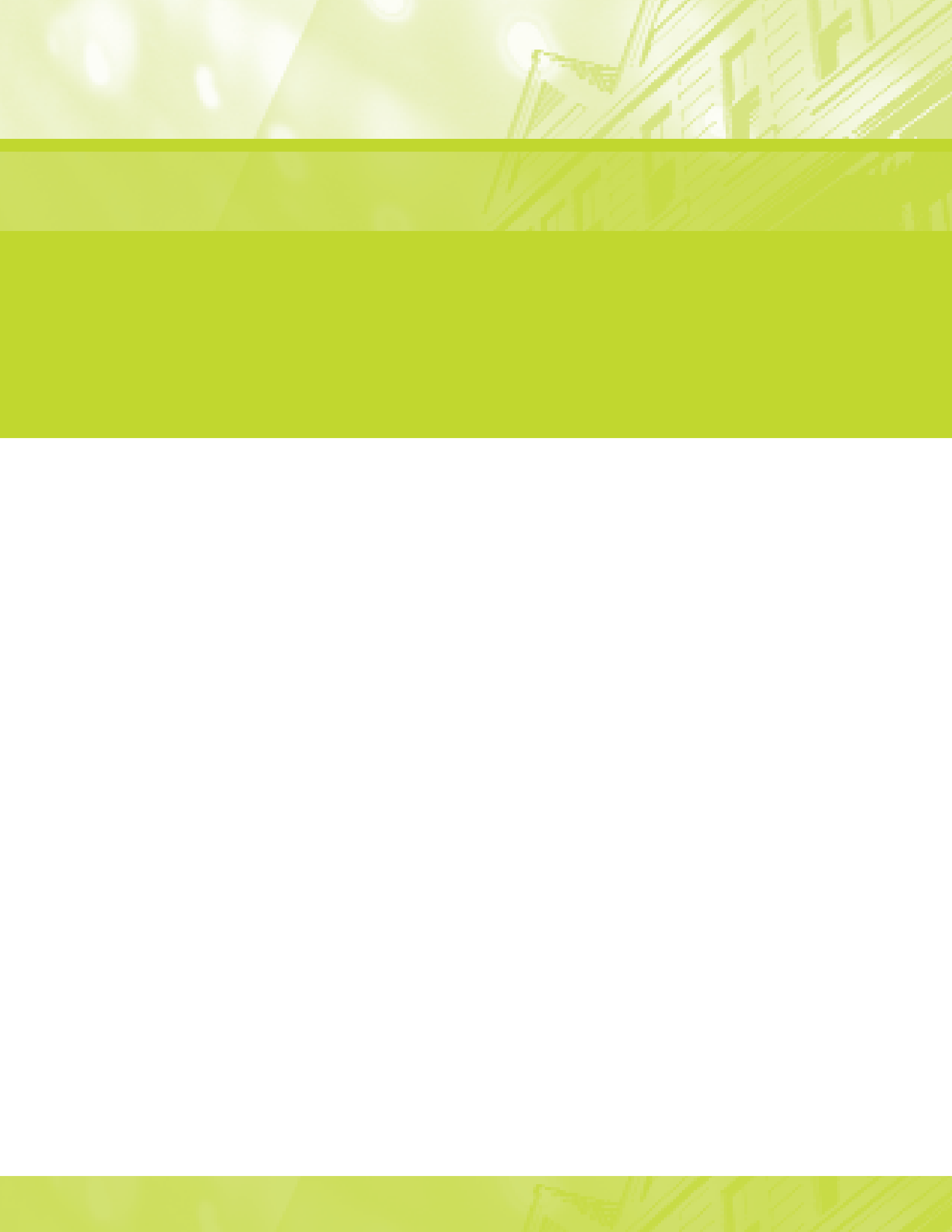
In the case of imputed variables, the procedure to follow for determining the level of quality of the estimate is as follows:

1. Calculate the coefficient of variation (CV) of the estimate with the Bootvar program. Include reported values and imputed values in this estimate and in the CV calculation. A value is deemed reported if its imputation flag equals 3 (not imputed). A value is considered imputed when its imputation flag is 1 (imputed deterministically) or 2 (imputed from donor).
2. Calculate the rate of imputation of the estimate based on the variable's imputation flag: rate of imputation = i/n , where i is the number of imputed values and n is the sum of the number of reported values plus the number of imputed values.
3. Calculate the "adjusted CV" using the CV from Bootvar and the rate of imputation, as follows:

$$CV_{\text{adjusted}} = \sqrt{\frac{n}{r}} CV = \frac{CV}{\sqrt{1 - \text{Rate of imputation}}}$$

where r is the number of reported values and n is the sum of the number of reported values plus the number of imputed values. Round the adjusted CV to the nearest tenth of a percent (for example, round 16.58 percent to 16.6 percent).

4. Apply the guidelines described in Table 14 by replacing the term "sample" (which, in the case of imputed variables, equals all reported values plus imputed values, represented here by n) with the term "sample restricted to reported values" (which equals the number of all reported values, represented here by r) and by replacing the expression "coefficient of variation" with "adjusted coefficient of variation" (as defined in Step 3 above).

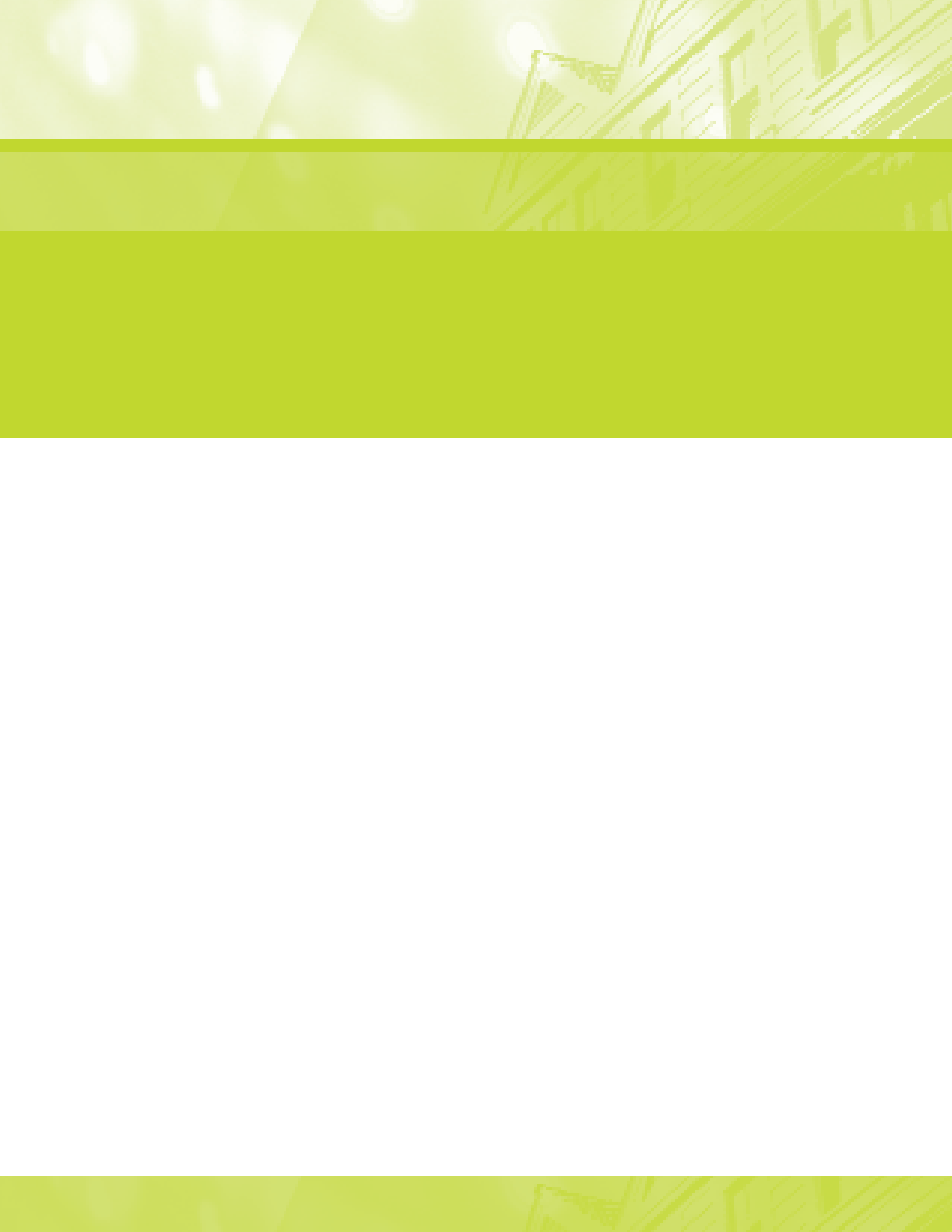




APPENDIX

B

Glossary



Glossary

Air conditioning: Set of operations aimed at comfort by creating and maintaining predetermined conditions of temperature, relative humidity, speed and purity of air.

Air exchanger: Device allowing the transfer of air from one area to another.

Apartment: Part of a building containing several connecting rooms that form a dwelling unit. This type of dwelling includes units found in residential buildings or residential hotels; apartments in duplexes and triplexes (where each unit takes up one floor); apartments in houses where the structure has been modified; dwellings in business establishments; dwellings of caretakers in schools, churches, warehouses and elsewhere; and private spaces for employees of hospitals and other kinds of institutions. SHEU-2003 only includes apartments located within a building with fewer than five storeys.

Appliance: Device used in a house during the year. Appliances at the disposal of the head of the household for regular use are to be counted. Appliances that are owned by the household but are not used are not to be counted, except for air-conditioning units. An appliance that is temporarily inoperable, but which is generally used, is included if a serviceperson has been called or if it has been transported to a repair shop.

Attic: Uppermost storey of a dwelling, below the roof, used more for storage purposes than for living purposes.

Automatic defrost: Automatic elimination of frost deposits that may have formed on the inside walls of a freezer.

Basement: Usable part of a building, which is located partially or completely beneath the outside ground level.

Btu (British thermal unit): The quantity of heat required to raise the temperature of one pound of water one degree Fahrenheit.

Built-in oven: Domestic appliance placed in a closed compartment with a supply of heat, used for cooking food. In contrast to the kitchen stove, the built-in oven cannot be moved and is not equipped with surface heating elements (burners).

Ceiling fan: Motorized fan installed on the ceiling and used to force the circulation of air in a given direction.

Central ventilation system (air exchanger): Device that takes stale air from inside a dwelling and exchanges it with fresh air from outside a dwelling.

Clothes dryer: Appliance used to dry clothing by evaporation accelerated by applying heat and rapid air movement. The air is usually heated by electricity or natural gas.

Clothes washer: An appliance for washing laundry, composed of a washtub, an agitator and a system for draining used water. An opening at the top or front of the appliance provides access to the washtub.

Compact fluorescent lights: General term applied to smaller-diameter fluorescent lights.

Compact stereo: A compact stereo is a one-component stereo system that is not capable of being easily carried or moved about because of its size or design (no built-in handles or carrying straps).

Component stereo system: A component stereo system has two or more components. Each component has its own electrical plug. The components and speakers operate together to produce sound. Components may include an amplifier, audio-video receiver, CD player, tape player, record player and radio tuner.

Condensation: Physical reaction in which water vapour molecules join together to form water droplets that attach themselves to the interior surface of a window.

Condensing clothes dryer: A clothes dryer where all the steam created by the drying process is cooled and condensed back into water. This water is then collected in a reservoir inside the machine. It is a ventless clothes dryer.

Cooktop: Appliance not attached to an oven, used for cooking food (the kitchen stove is a one-piece appliance containing an oven and a cooktop).

Crawl space: Ventilated open space between the ground and the lowest storey of a building, of a height sufficient for crawling.

Dishwasher: An appliance designed to wash dishes automatically. Water is sprayed over dishes either by fixed jets aimed at a rotating basket or by rotating jets.

Double-paned window: Window containing two panes of glass separated by an air space.

Double/row house: House connected to at least one other dwelling, which together form a building. For SHEU-2003, duplexes (two dwellings one above the other, not attached to any other structure) are included in this category.

Dwelling: A living space that is structurally separate from others, with a private entry accessible from the outside of the building or from a stairwell or common corridor.

Electric baseboard: Electric heat-emitting appliance located at ground (or ceiling) level. This appliance may be made of cast iron or flanges.

Electricity: Electric energy measured by a meter, distributed by a public utility company to a dwelling through overhead or underground lines.

Electric radiant heating: Radiant heat sources warm objects within their range without necessarily having to heat up the surrounding space. Two types of electric radiant heating are portable infrared heaters and electric radiant heating cables installed in a floor or ceiling.

Energy intensity: Total energy consumption of a dwelling divided by the number of heated units of floor area (excluding the basement and the garage). In this document, energy intensity is expressed in gigajoules per square metre (GJ/m²).

Energy source: Type of energy used by a household. The term includes all substances that yield heat or power, including petroleum, natural gas, renewable energy and electricity.

ENERGY STAR® qualified product: As an international symbol of energy efficiency, the ENERGY STAR mark helps consumers identify which appliances on the market are the most energy efficient in their class. Administered in Canada by Natural Resources Canada, the ENERGY STAR symbol is used mainly to identify products offering premium performance levels in energy efficiency. The ENERGY STAR symbol can be found on product packaging, literature and advertising and on the products themselves. In some cases, you may also find it on the EnerGuide label. The following criteria are used to determine if an appliance qualifies for the ENERGY STAR mark.

- n A standard-size **refrigerator** must exceed the minimum energy performance standard established by the Government of Canada by at least 10 percent in 2003, and at least 15 percent in 2004. A standard-size **freezer** must, in 2003, exceed these standards by at least 10 percent. Compact refrigerators and freezers must exceed these same standards by at least 20 percent.
- n A standard-size **dishwasher** must exceed the minimum energy performance standards established by the Government of Canada by at least 25 percent in 2003. Only standard-size dishwashers can qualify for the ENERGY STAR mark.
- n A **clothes washer** must use from 35 to 50 percent less water and at least 50 percent less energy per load than conventional washers.

- n A **television** must use 3 watts or less when turned off, i.e., use 75 percent less energy than conventional televisions, which consume up to 12 watts when turned off.
- n A **video cassette recorder** must use 4 watts or less when turned off, i.e., use 70 percent less energy than conventional video cassette recorders, which consume up to 13 watts when turned off.
- n A **DVD player** must use 3 watts or less when turned off, i.e., use 75 percent less energy than conventional DVD players, which consume up to 10 watts when turned off.
- n A **system stereo** must use 2 watts or less when turned off, i.e., use 70 percent less energy than conventional stereo systems, which consume up to 7 watts when turned off.
- n A **room air conditioner** must exceed the minimum energy performance standards established by the Government of Canada by at least 10 percent in 2003. A **central air conditioner** must exceed these standards by 20 percent.
- n A **forced-air furnace** must have an annual fuel utilization efficiency rating of 90 or higher. A **furnace (boiler) with hot water or steam radiators** must have an annual fuel utilization efficiency rating of 85 or higher.

Fireplace: Space in a wall or chimney mantle in which a heating apparatus can be installed and equipped with a chimney flue.

Foundation: Structure of masonry, reinforced concrete or steel that supports and immobilizes support units and structural members of the frame. It is designed to distribute all loads that are transmitted to it toward or under the ground judiciously. The word “foundation” includes basement, crawl space and slab on grade (concrete).

Freezer: Appliance designed to freeze products at a temperature of approximately -15°C . The process of freezing involves removing heat from products to lower their temperature to a point where most of the water they contain is solidified. This is a separate appliance and is not part of a refrigerator. It is built as either a vertical model (with a door that opens outward) or a chest-style model (with a lid).

Fuel oil: Somewhat viscous (thick), dark brown or black, combustible liquid made from petroleum.

Full cord: English standard measure equivalent to a pile of wood measuring 1.2 m \times 1.2 m \times 2.4 m, or 3.4 m³ (128 cu. ft.).

Furnace (boiler) with hot water or steam radiators: A heating system with a pump that distributes water heated by a boiler through a network of pipes in the dwelling to radiators in the rooms. The radiators release the heat from the water into the room.

Furnace with forced air (hot air vents): A furnace that distributes heat by using a motor-driven fan to circulate heated air through the duct system of a dwelling. The heated air is delivered to different rooms through air vents.

Garage: Generally enclosed covered space designed to shelter vehicles other than horse-drawn vehicles.

Gigajoule (GJ): Unit of measure for energy consumption equal to 1 billion joules.

Halogen light bulbs: Incandescent lights containing halogen gases, which burn very hot while providing an intense white light.

Heated floor area of dwelling: All space within the exterior walls of a dwelling that is heated, excluding garage and basement, if any.

Heat pump: Heating and cooling unit that draws heat from an outdoor source and transports it to an indoor space for heating purposes, or does the inverse for cooling purposes.

High efficiency back-up furnace: A furnace with additional heat exchange surfaces used to supplement a heat pump. These extract most of the heat remaining in the combustion by-products through a condensing heat-exchange process.

Hot water tank: A thermally insulated tank with automatic controls designed to produce and hold hot water.

House: Building designed for human habitation.

Household: Person or group of persons who occupy a dwelling. The number of households, therefore, is equal to the number of dwellings occupied. The person or persons who occupy a private dwelling form a private household.

Household income: Total income of all members of the household in 2003, from all sources, before taxes and other deductions.

Icemaker: Compact device within a refrigerator that automatically produces a relatively small quantity of ice.

Insulation blanket: Insulation that covers a hot water tank in order to conserve energy.

Louvered unit: A window-mounted air-conditioning unit that has accordion-style or louvered side panels installed between the unit and the window frame to prevent drafts.

Low-E coating: Low-E (low-emissivity) coatings are highly reflective, transparent coatings applied to windowpanes to slow heat loss.

Microwave oven: An appliance that emits electromagnetic waves capable of agitating water molecules contained in food. The repeated friction of these molecules raises the temperature, enabling the food to cook rapidly.

Mobile home: Mobile dwelling designed and built to be transported by road on its own frame to a location where it may be placed on a temporary foundation, such as concrete blocks, pillars or some other specifically designed structure. It must be able to be moved again to another location, as required.

Moisture detector: A moisture detector is a sensor in a clothes dryer used to check the amount of moisture in the clothes and to terminate the dryer cycle automatically when the clothes are dry.

Natural gas: A gaseous mixture of saturated hydrocarbons that is found in underground deposits either alone or with petroleum. It is delivered directly to buildings by pipelines.

Non-louvered unit: Wall-mounted air-conditioning unit that does not have accordion-style or louvered side panels around it.

Non-respondent: A dwelling that did not provide sufficient data or an authorization for data sharing.

Ordinary (incandescent) light bulb: The standard incandescent light bulb is the original and most common type of bulb used in the house.

Outdoor lights with motion detector: Outdoor lighting fixtures that turn on when the sensor detects movement and turn off automatically after a set period of time.

Outside walls: Walls that communicate directly to the outside of the house. This excludes walls that are shared between row houses or double houses.

Pillars: Wood, concrete or metal columns that are driven into the ground and used to support a building and prevent it from sinking into the ground.

Pilot light (gas fireplace): Small flame within a gas-burning or oil-burning unit that is allowed to burn continually to ensure automatic ignition of the unit.

Portable electric heater: Heating unit that can be easily transported. The source of heat is electrical resistance.

Portable stereo: A stereo that is capable of being easily carried or moved about (using built-in handles or carrying straps). A portable stereo is also a one-component stereo system. Walkmans and MP3 players are not considered to be portable stereos.

Programmable thermostat: Device that automatically controls the amount of heat or cold distributed within a room by reacting to room temperature. The programmable thermostat makes it possible to set the desired temperature of a room according to the time of the day.

Propane: A saturated, aliphatic, linear-chain hydrocarbon found in natural gas and petroleum and widely used as a fuel.

Refrigerator: A movable chest in which the temperature can be reduced and controlled for the preservation of refrigerated foods. Most refrigerators are equipped with a second compartment for freezing foods.

Respondent: A dwelling that provided sufficient data and an authorization for data sharing.

Retrofit: Improvement of efficiency of energy-consuming appliances or thermal characteristics of a building.

Rural area: Any area located outside an urban area is considered to be part of a rural area.

Single detached house: House containing a single dwelling unit entirely separate from any other building or structure, generally known as a single-family house.

Single-paned window: Window containing a single pane of glass.

Slab on grade (concrete slab): Rigid, horizontal (or almost horizontal) concrete structure, much wider than it is thick, upon which a house is built.

Space heating: Use of mechanical equipment for heating all or part of a building, including all equipment for space heating plus all equipment for supplementary heating.

Standard socket: An opening or cavity into which the base of a standard (incandescent) light bulb is designed to fit. The socket provides the bulb with electricity.

Storey: The space contained between two consecutive floors, or between a floor and a roof.

Storm windows: Storm windows fit into, or over, primary windows and are used to minimize drafts due to air leakage. Storm windows can be installed on the inside or the outside, and they can be permanent, seasonal or temporary.

Stove or kitchen stove: A single-unit appliance used to cook food, combining a cooking surface and an oven. The stove may be heated by wood, coal, oil, gas or electricity, or by different combinations thereof (such as a stove using both natural gas and electricity).

Supplementary heating: Heating system that can be used in addition to a main heating system, as desired, and that is flexible enough to respond to rapid variations in heating needs.

Swimming pool: Any basin or tank that holds water and that is sufficiently large for swimming.

Thermal envelope: The facing materials that form the shell of a building, including walls, ceilings, roof, basement walls, windows and doors.

Triple-paned window: Window containing three panes of glass separated by air spaces.

Unit out of scope: A dwelling whose type is incompatible with the survey, i.e., all dwellings that are located in a First Nation community, on a military base or in a business or institution; vacant, demolished or under construction; seasonal or secondary residences; or occupied by individuals who work full-time within the Canadian Armed Forces.

Urban area: An area with a population of at least 1,000 inhabitants and a population density of at least 400 inhabitants per square kilometre, as determined in the last census.

Water devices: Water devices include hot water tanks, water-saving shower heads, and tap attachments.

Water heater with add-on insulation: A water heater with insulation, such as an insulation blanket, placed around it in order to save energy (keep the heat in). This insulation is not necessary for the water heater to work.

Water heating: The use of energy to heat running water and cooking water, plus the use of energy by auxiliary water heating appliances to heat water for various non-cooking uses (bathing, cleaning).

Window: A construction unit set into a space (vertical or practically vertical) within a wall or inclined roof to allow light, and possibly air, to enter.

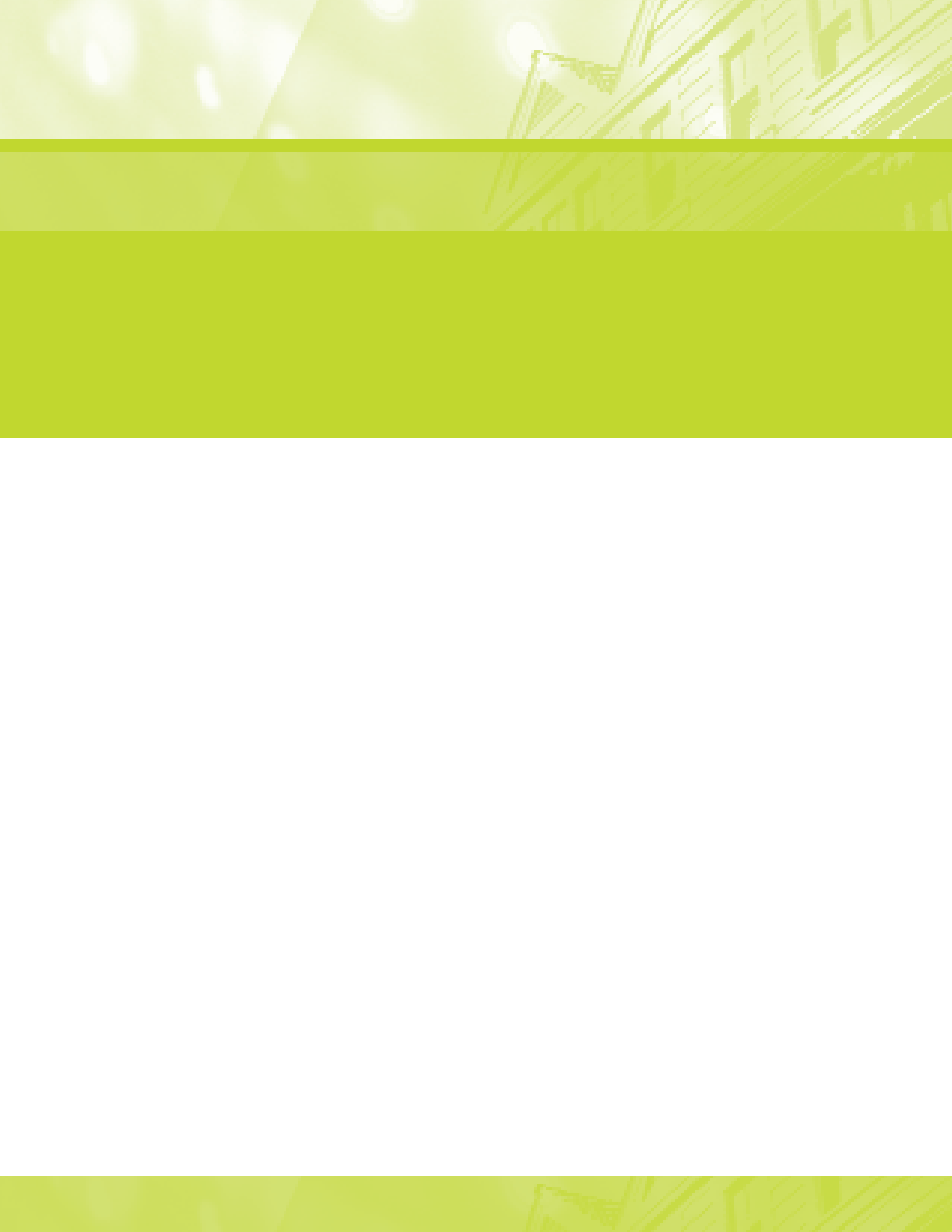
Wood: A product manufactured from trees.

Wood stove: An enclosed heating unit in which wood is burned.

APPENDIX

C

Questionnaire



Section: Entry Section

Is this dwelling owned by a member of this household?

- 1 Yes
- 2 No
- 8 Refusal

Is this part of a condominium?

- 1 Yes
- 2 No
- 6 Valid skip

Section: AP – Appliances Probe

Were there any major appliances already in your dwelling when you moved in?

- 1 Yes
- 2 No
- 7 Don't know

Which appliances?

- 1 Refrigerator
- 2 Freezer
- 3 Regular stove or built-in oven with separate cooktop
- 4 Microwave oven
- 5 Dishwasher
- 6 Washing machine
- 7 Clothes dryer
- 8 Other
- 9 Valid skip
- 10 Don't know
- 11 Not stated

Section: FRG – Fridges

How many refrigerators do you use?

- 0 0
- 1 1
- 2 2
- 3 3 or more

What kind of doors does your (main) refrigerator have?

- 1 Top and bottom doors with freezer on top
- 2 Top and bottom doors with freezer on bottom
- 3 Single door
- 4 Side-by-side doors
- 5 Three doors
- 6 Valid skip

What is the size of your (main) refrigerator?

- 1 Compact (less than 7.75 cubic feet)
- 2 Small (7.76 to 12.4 cubic feet)
- 3 Medium (12.5 to 16.4 cubic feet)
- 4 Large (16.5 to 20.0 cubic feet)
- 5 Very large (more than 20 cubic feet)
- 6 Valid skip
- 7 Don't know

Is the height of your (main) refrigerator less than 36 inches (91 centimetres)?

- 1 Yes
- 2 No
- 6 Valid skip

Does your (main) refrigerator automatically defrost?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know

Is there an automatic ice maker in the door of your (main) refrigerator?

- 1 Yes
- 2 No
- 6 Valid skip

- 06 21 to 25 years
- 07 26 years or more
- 08 This is the original/first refrigerator
- 96 Valid skip
- 97 Don't know
- 98 Refusal

How old is your (main) refrigerator?

- 01 : 50 Age of main refrigerator (years)
- 96 Valid skip
- 97 Don't know
- 98 Refusal

What did you do with your old refrigerator?

- 1 Kept it at home and plugged in all year
- 2 Kept it at home and plugged in when needed
- 3 Disposed of it, refrigerator no longer working
- 4 Other
- 6 Valid skip
- 7 Don't know
- 9 Not stated

Would you say it is...?

- 01 3 years or less
- 02 4 to 5 years
- 03 6 to 10 years
- 04 11 to 15 years
- 05 16 to 20 years
- 06 21 to 25 years
- 07 26 years or more
- 96 Valid skip
- 97 Don't know
- 99 Not stated

What kind of doors does your second refrigerator have?

- 1 Top and bottom doors with freezer on top
- 2 Top and bottom doors with freezer on bottom
- 3 Single door
- 4 Side-by-side doors
- 5 Three doors
- 6 Valid skip
- 9 Not stated

Is your (main) refrigerator an ENERGY STAR® qualified product?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 9 Not stated

What is the size of your second refrigerator?

- 1 Compact (less than 7.75 cubic feet)
- 2 Small (7.76 to 12.4 cubic feet)
- 3 Medium (12.5 to 16.4 cubic feet)
- 4 Large (16.5 to 20 cubic feet)
- 5 Very large (more than 20 cubic feet)
- 6 Valid skip
- 7 Don't know
- 9 Not stated

Approximately how old was your previous refrigerator when it was replaced with this one?

- 01 3 years or less
- 02 4 to 5 years
- 03 6 to 10 years
- 04 11 to 15 years
- 05 16 to 20 years

Is the height of your second refrigerator less than 36 inches (91 centimetres)?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 9 Not stated

Does your second refrigerator automatically defrost?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 9 Not stated

Is there an automatic ice maker in the door of your second refrigerator?

- 1 Yes
- 2 No
- 6 Valid skip
- 9 Not stated

How old is your second refrigerator?

- 01 : 50 Age of second refrigerator (years)
- 96 Valid skip
- 97 Don't know
- 99 Not stated

Would you say it is...?

- 01 3 years or less
- 02 4 to 5 years
- 03 6 to 10 years
- 04 11 to 15 years
- 05 16 to 20 years
- 06 21 to 25 years
- 07 26 years or more
- 96 Valid skip
- 97 Don't know
- 99 Not stated

Section: FRZ – Freezer

Excluding the freezer(s) in your refrigerator(s), how many freezers do you use?

- 0 0
- 1 1
- 2 2
- 3 3 or more

Is your (main) freezer...?

- 1 A chest type (top opening)
- 2 An upright type (front opening)
- 6 Valid skip
- 7 Don't know
- 8 Refusal

Does your (main) freezer...?

- 1 Automatically defrost
- 2 Manually defrost
- 6 Valid skip
- 7 Don't know

How old is your (main) freezer?

- 01 : 50 Age of main freezer (years)
- 96 Valid skip
- 97 Don't know
- 98 Refusal

Would you say it is...?

- 01 3 years or less
- 02 4 to 5 years
- 03 6 to 10 years
- 04 11 to 15 years
- 05 16 to 20 years
- 06 21 to 25 years
- 07 26 years or more
- 96 Valid skip
- 97 Don't know
- 99 Not stated

Is your (main) freezer an ENERGY STAR® qualified product?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 9 Not stated

What is the size of your (main) freezer?

- 1 Very small (less than 7.0 cubic feet)
- 2 Small (7.1 to 13.9 cubic feet)
- 3 Medium (14.0 to 17.9 cubic feet)
- 4 Large (18.0 to 22.9 cubic feet)
- 5 Very large (23 cubic feet and more)
- 6 Valid skip
- 7 Don't know

Was your previous freezer still working when you replaced it with this one?

- 1 Yes
- 2 No
- 3 This is the original/first freezer
- 6 Valid skip
- 7 Don't know

Approximately how old was your previous freezer when you replaced it with this one?

- 01 3 years or less
- 02 4 to 5 years
- 03 6 to 10 years
- 04 11 to 15 years
- 05 16 to 20 years
- 06 21 to 25 years
- 07 26 years or more
- 96 Valid skip
- 97 Don't know
- 98 Refusal
- 99 Not stated

Section: STV – Stoves

Do you use a regular stove or a built-in oven with a separate cooktop?

- 1 Regular stove (range, free-standing)
- 2 Built-in oven with a separate cooktop
- 3 Other – Specify

What source of energy does your separate cooktop use?

- 1 Electricity
- 2 Natural gas
- 3 Other
- 6 Valid skip

What source of energy does your built-in oven / regular stove use?

- 01 Electricity
- 02 Natural gas
- 03 Oil
- 04 Wood
- 05 Propane
- 06 Electricity and natural gas
- 96 Valid skip

Is your built-in oven / regular stove self-cleaning?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know

How old is your built-in oven / regular stove?

- 01 : 50 Age of stove (years)
- 96 Valid skip
- 97 Don't know
- 98 Refusal

Would you say it is...?

01	3 years or less
02	4 to 5 years
03	6 to 10 years
04	11 to 15 years
05	16 to 20 years
06	21 to 25 years
07	26 years or more
96	Valid skip
97	Don't know
99	Not stated

How old is your separate cooktop?

01 : 50	Age – separate cooktop (years)
96	Valid skip
97	Don't know

Would you say it is...?

01	3 years or less
02	4 to 5 years
03	6 to 10 years
04	11 to 15 years
05	16 to 20 years
06	21 to 25 years
07	26 years or more
96	Valid skip
97	Don't know

In an average week, how often do you use your built-in oven with a separate cooktop / regular stove?

01	Three or more times a day
02	Two times a day
03	Once a day
04	A few times each week
05	Once a week
06	Less than once a week
07	Never
96	Valid skip

Section: MCW – Microwaves

Do you use a microwave oven?

1	Yes
2	No

In an average week, how many minutes do you use your microwave oven. Would you say...?

01	Less than 5 minutes
02	5 to 15 minutes
03	16 to 30 minutes
04	31 to 60 minutes
05	61 minutes to 2 hours
06	More than 2 hours
96	Valid skip
97	Don't know

Section: DWS – Dishwashers

Do you use a dishwasher?

1	Yes
2	No

Is it a compact or a standard-size dishwasher?

1	Compact (mini – exterior width less than 56 centimetres / 22 inches)
2	Standard (full size – exterior width greater than or equal to 56 centimetres / 22 inches)
6	Valid skip

How old is your dishwasher?

01 : 33	Age – dishwasher (years)
96	Valid skip
97	Don't know
98	Refusal

Would you say it is...?

- 01 3 years or less
- 02 4 to 5 years
- 03 6 to 10 years
- 04 11 to 15 years
- 05 16 to 20 years
- 06 21 to 25 years
- 07 26 years or more
- 96 Valid skip
- 97 Don't know
- 99 Not stated

Is your dishwasher an ENERGY STAR® qualified product?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 9 Not stated

Do you rinse off the dishes before putting them in the dishwasher?

- 1 Most of the time
- 2 Sometimes
- 3 Rarely
- 4 Never
- 6 Valid skip
- 7 Don't know
- 8 Refusal

Do you usually dry the dishes with the...?

- 1 Heat on (hot air)
- 2 Heat off (door closed)
- 3 Door open (dishes dry naturally)
- 6 Valid skip
- 7 Don't know
- 8 Refusal

In an average week, how many loads of dishes do you do?

- 00 : 21 Number of times dishwasher loaded per week
- 96 Valid skip
- 97 Don't know
- 98 Refusal

Was your previous dishwasher still working when you replaced it with this one?

- 1 Yes
- 2 No
- 3 This is the original/first dishwasher
- 6 Valid skip
- 7 Don't know
- 8 Refusal

Approximately how old was your previous dishwasher when you replaced it with this one?

- 01 3 years or less
- 02 4 to 5 years
- 03 6 to 10 years
- 04 11 to 15 years
- 05 16 to 20 years
- 06 21 to 25 years
- 07 26 years or more
- 96 Valid skip
- 97 Don't know
- 99 Not stated

Section: WSH – Washer

Do you use a washing machine (in your dwelling)?

- 1 Yes
- 2 No
- 8 Refusal

What type of washing machine do you use?

- 1 Automatic washer
- 2 Washer/dryer combination

3 Other – Specify
6 Valid skip
9 Not stated

Is it a front-loading or a top-loading washing machine?

1 Front-loading
2 Top-loading
6 Valid skip
9 Not stated

What size is your washing machine?

1 Mini (compact – less than 45 litres / 10 gallons)
2 Standard (full size – greater than or equal to 45 litres / 10 gallons)
6 Valid skip
7 Don't know
9 Not stated

How old is your washing machine?

01 : 40 Age – washing machine (years)
96 Valid skip
97 Don't know
98 Refusal
99 Not stated

Would you say it is...?

01 3 years or less
02 4 to 5 years
03 6 to 10 years
04 11 to 15 years
05 16 to 20 years
06 21 to 25 years
07 26 years or more
96 Valid skip
97 Don't know
99 Not stated

Is your washing machine an ENERGY STAR® qualified product?

1 Yes
2 No
6 Valid skip
7 Don't know
9 Not stated

What water temperature do you use for most of your washing?

1 Hot
2 Warm
3 Cold
6 Valid skip
7 Don't know
9 Not stated

What water temperature do you use for most of your rinsing?

1 Hot
2 Warm
3 Cold
6 Valid skip
7 Don't know
9 Not stated

In an average week during the winter, how many loads of laundry do you wash?

00 : 40 Winter – loads of laundry per week
96 Valid skip
97 Don't know
99 Not stated

In an average week during the summer, how many loads of laundry do you wash?

00 : 40 Summer – loads of laundry per week
96 Valid skip
97 Don't know
99 Not stated

Was your previous washing machine still working when you replaced it with this one?

- 1 Yes
- 2 No
- 3 This is the original/first washing machine
- 6 Valid skip
- 7 Don't know
- 9 Not stated

Approximately how old was your previous washing machine when you replaced it with this one?

- 01 3 years or less
- 02 4 to 5 years
- 03 6 to 10 years
- 04 11 to 15 years
- 05 16 to 20 years
- 06 21 to 25 years
- 07 26 years or more
- 96 Valid skip
- 97 Don't know
- 98 Refusal
- 99 Not stated

Section: DRY – Dryer

Do you use a clothes dryer (in your dwelling)?

- 1 Yes
- 2 No

Is your clothes dryer a condensing clothes dryer, that is, not vented to the outside?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know

What size is your clothes dryer?

- 1 Compact (less than 125 litres / 28 gallons capacity)
- 2 Standard (greater than or equal to 125 litres / 28 gallons capacity)
- 6 Valid skip

How old is your clothes dryer?

- 01 : 40 Age – clothes dryer (years)
- 96 Valid skip
- 97 Don't know

Would you say it is...?

- 01 3 years or less
- 02 4 to 5 years
- 03 6 to 10 years
- 04 11 to 15 years
- 05 16 to 20 years
- 06 21 to 25 years
- 07 26 years or more
- 96 Valid skip
- 97 Don't know

Does your clothes dryer have a moisture detector?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 8 Refusal

In an average week during the winter, how many loads of laundry do you dry in the clothes dryer?

- 00 : 40 Winter – loads dried per week
- 96 Valid skip
- 97 Don't know

In an average week during the summer, how many loads of laundry do you dry in the clothes dryer?

00 : 36 Summer – loads dried per week
 96 Valid skip
 97 Don't know
 98 Refusal

Was your previous clothes dryer still working when you replaced it with this one?

1 Yes
 2 No
 3 This is the original/first clothes dryer
 6 Valid skip
 7 Don't know

Approximately, how old was your previous clothes dryer when you replaced it with this one?

01 3 years or less
 02 4 to 5 years
 03 6 to 10 years
 04 11 to 15 years
 05 16 to 20 years
 06 21 to 25 years
 07 26 years or more
 96 Valid skip
 97 Don't know
 98 Refusal
 99 Not stated

Section: PC – Personal Computer

How many personal computers do you use?

00 : 08 Number of personal computers
 98 Refusal

In an average week, how many hours do you have your (most frequently used) personal computer turned on?

000 : 168 Computer – hours turned on per week
 996 Valid skip

997 Don't know
 999 Not stated

In an average week, how many hours do you use your (most frequently used) personal computer? Please include the time used for downloading.

000 : 168 Computer – hours used per week
 996 Valid skip
 997 Don't know
 998 Refusal
 999 Not stated

How old is your (most frequently used) personal computer?

01 : 28 Age – personal computer (years)
 96 Valid skip
 97 Don't know
 98 Refusal
 99 Not stated

Would you say it is ...?

01 3 years or less
 02 4 to 5 years
 03 6 to 10 years
 04 11 to 15 years
 05 16 to 20 years
 06 21 to 25 years
 07 26 years or more
 96 Valid skip
 97 Don't know
 99 Not stated

Section: VP – Video Probe

Do you use ... a television set?

1 Yes
 2 No

Do you use
 ... a VCR?
 ... a DVD player? Please exclude video game systems
 that can play DVDs.
 ... a video game system that requires an electrical
 outlet?
 ... a satellite dish?

1 Yes
 2 No
 6 Valid skip

Section: TV – Television

How many television sets do you use?

01 : 08 Television – number used
 96 Valid skip

In an average week, how many hours do you have
 your (most frequently used) television set turned on?

000 : 168 Television – hours turned on per week
 996 Valid skip
 997 Don't know

How old is your (most frequently used) television set?

01 : 41 Age – television (years)
 96 Valid skip
 97 Don't know
 98 Refusal

Would you say it is...?

01 3 years or less
 02 4 to 5 years
 03 6 to 10 years
 04 11 to 15 years
 05 16 to 20 years
 06 21 to 25 years
 07 26 years or more
 96 Valid skip
 97 Don't know
 99 Not stated

Is your (most frequently used) television set an
 ENERGY STAR® qualified product?

1 Yes
 2 No
 6 Valid skip
 7 Don't know
 8 Refusal
 9 Not stated

Section: VCR – Videocassette Recorder

How many VCRs do you use?

01 : 08 VCR – number used
 96 Valid skip

In an average week, how many hours do you have
 your (most frequently used) VCR turned on?

000 : 168 VCR – hours turned on per week
 996 Valid skip
 997 Don't know

How old is your (most frequently used) VCR?

01 : 30 Age – VCR (years)
 96 Valid skip
 97 Don't know
 98 Refusal

Would you say it is...?

01 3 years or less
 02 4 to 5 years
 03 6 to 10 years
 04 11 to 15 years
 05 16 to 20 years
 06 21 to 25 years
 07 26 years or more
 96 Valid skip
 97 Don't know
 99 Not stated

Is your (most frequently used) VCR an ENERGY STAR® qualified product?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 9 Not stated

Section: DVD – DVD Player

How many DVD players do you use? Please exclude video game systems that can play DVDs.

- 01 : 05 DVD player – number used
- 96 Valid skip
- 97 Don't know

In an average week, how many hours do you have your (most frequently used) DVD player turned on?

- 000 : 168 DVD player – hours turned on per week
- 996 Valid skip
- 997 Don't know
- 999 Not stated

How old is your (most frequently used) DVD player?

- 01 : 08 Age – DVD player (years)
- 96 Valid skip
- 97 Don't know
- 99 Not stated

Would you say it is...?

- 1 1 year or less
 - 2 2 to 3 years
 - 3 4 to 5 years
 - 4 6 years or more
 - 6 Valid skip
 - 7 Don't know
 - 9 Not stated
-

Is your (most frequently used) DVD player an ENERGY STAR® qualified product?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 8 Refusal
- 9 Not stated

Section: VG – Video Game Systems

How many video game systems that require an electrical outlet do you use?

- 01 : 07 Video game systems – number used
- 96 Valid skip
- 97 Don't know

Section: SAT – Satellite Dishes

How many satellite dishes do you use?

- 01 : 04 Satellite dishes – number used
- 96 Valid skip

Section: STE – Stereos

How many component stereo systems do you use?

- 00 : 07 Component stereo systems – number used
- 97 Don't know

How many compact and portable stereos (boom boxes) do you use?

- 00 : 07 Compact stereos – number used
-

In an average week, how many hours do you use your (most frequently used) stereo (system)?

000 : 168 Stereo system – hours used per week
 996 Valid skip
 997 Don't know

How old is your (most frequently used) stereo (system)?

01 : 30 Age – stereo system (years)
 96 Valid skip
 97 Don't know

Would you say it is...?

01 3 years or less
 02 4 to 5 years
 03 6 to 10 years
 04 11 to 15 years
 05 16 to 20 years
 06 21 to 25 years
 07 26 years or more
 96 Valid skip
 97 Don't know

Is your (most frequently used) stereo (system) an ENERGY STAR® qualified product?

1 Yes
 2 No
 6 Valid skip
 7 Don't know
 8 Refusal
 9 Not stated

Section: PHO – Phones

How many telephones that require an electrical outlet do you use (electricity and a telephone jack)?

00 : 08 Telephones – number used

How old is your (most frequently used) telephone that requires an electrical outlet?

01 : 30 Age – telephone (years)
 96 Valid skip
 97 Don't know
 98 Refusal

Would you say it is...?

01 3 years or less
 02 4 to 5 years
 03 6 to 10 years
 04 11 to 15 years
 05 16 to 20 years
 06 21 to 25 years
 07 26 years or more
 96 Valid skip
 97 Don't know
 99 Not stated

How many answering machines do you use? Please exclude voice mail services.

00 : 05 Answering machines – number used

Section: WTC – Water Cooler

Do you use a water cooler?

1 Yes
 2 No

Section: HNF – Heat Pumps and Furnaces

In 2003, was the unit that supplied the heat to your dwelling a central unit for your building or was it a unit specifically used by your dwelling only?

1 Central unit
 2 Dwelling unit
 6 Valid skip
 7 Don't know

In 2003, did you use a heat pump?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 9 Not stated

Was your heat pump an air source or ground source (earth energy system)?

- 1 Air source
- 2 Ground source
- 6 Valid skip
- 7 Don't know
- 9 Not stated

How old is your heat pump?

- 01 : 30 Age – heat pump (years)
- 96 Valid skip
- 97 Don't know
- 98 Refusal
- 99 Not stated

Would you say it is...?

- 01 3 years old or less
- 02 4 to 5 years old
- 03 6 to 10 years old
- 04 11 to 15 years old
- 05 16 to 20 years old
- 06 21 to 25 years old
- 07 26 years old or more
- 08 Unsure; was there when moved in
- 96 Valid skip
- 99 Not stated

In 2003, did you use a back-up furnace with your heat pump?

- 1 Yes
- 2 No
- 6 Valid skip
- 9 Not stated

What source of energy did the back-up furnace use?
Please exclude the energy used for running the fan.

- 01 Electricity
- 02 Natural gas
- 03 Oil
- 04 Wood
- 05 Propane
- 06 Other – Specify
- 96 Valid skip
- 99 Not stated

How old is your back-up furnace?

- 01 : 45 Age – back-up furnace (years)
- 96 Valid skip
- 97 Don't know
- 99 Not stated

Would you say it is...?

- 01 3 years old or less
- 02 4 to 5 years old
- 03 6 to 10 years old
- 04 11 to 15 years old
- 05 16 to 20 years old
- 06 21 to 25 years old
- 07 26 years old or more
- 08 Unsure; was there when moved in
- 96 Valid skip
- 99 Not stated

Is your back-up furnace an ENERGY STAR® qualified product?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 9 Not stated

Was it a high-efficiency back-up furnace? A high-efficiency furnace has a plastic pipe that exhausts to the outside. It is also known as a condensing furnace.

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 8 Refusal
- 9 Not stated

- 96 Valid skip
- 97 Don't know
- 99 Not stated

Is your furnace an ENERGY STAR® qualified product?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 9 Not stated

In 2003, what type of heating equipment provided most of the heat for your dwelling?

- 01 Furnace with forced air (hot air vents)
- 02 Electric baseboards
- 03 Heating stove (burning wood, pellets, corn, coal, etc.)
- 04 Furnace (boiler) with hot water or steam radiators
- 05 Electric radiant heating
- 06 Other equipment – Specify
- 96 Valid skip
- 97 Don't know
- 99 Not stated

Did your furnace / heating stove use one or two sources of energy? Please exclude the energy used for running the fan.

- 1 1
- 2 2
- 6 Valid skip
- 7 Don't know
- 8 Refusal
- 9 Not stated

How old is your heating equipment?

- 001 : 080 Age – heating equipment (years)
- 996 Valid skip
- 997 Don't know
- 998 Refusal
- 999 Not stated

What source of energy did your furnace / heating stove use?

- 01 Electricity
- 02 Natural gas
- 03 Oil
- 04 Wood
- 05 Propane
- 06 Other – Specify
- 96 Valid skip
- 99 Not stated

Would you say it is...?

- 01 3 years old or less
- 02 4 to 5 years old
- 03 6 to 10 years old
- 04 11 to 15 years old
- 05 16 to 20 years old
- 06 21 to 25 years old
- 07 26 years old or more
- 08 Unsure; was there when moved in

What sources of energy did your furnace / heating stove use?

- 1 Electricity and oil
- 2 Electricity and natural gas
- 3 Wood and oil
- 4 Wood and electricity
- 5 Other – Specify

- 6 Valid skip
- 7 Don't know
- 9 Not stated

In 2003, how many gas-burning fireplaces did you have in your dwelling?

00 : 04 Gas fireplaces – number in dwelling

Was it a high-efficiency furnace? A high-efficiency furnace has a plastic pipe that exhausts to the outside. It is also known as a condensing furnace.

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 8 Refusal
- 9 Not stated

How old is your (most frequently used) gas-burning fireplace?

- 1 Less than 4 years old
- 2 4 to 6 years old
- 3 7 to 10 years old
- 4 11 years old or more
- 5 Unsure; was there when moved in
- 6 Valid skip
- 7 Don't know

Section: FP – Fireplaces

In 2003, how many wood-burning fireplaces did you have in your dwelling?

00 : 04 Wood fireplaces – number in dwelling

Did your (most frequently used) gas-burning fireplace have glass doors?

- 1 Yes
- 2 No
- 6 Valid skip

How old is your (most frequently used) wood-burning fireplace...?

- 1 Less than 4 years old
- 2 4 to 6 years old
- 3 7 to 10 years old
- 4 11 years old or more
- 5 Unsure; was there when moved in
- 6 Valid skip
- 7 Don't know
- 8 Refusal

Was this gas-burning fireplace installed where a wood-burning fireplace previously existed?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know

Did your (most frequently used) wood-burning fireplace have glass doors?

- 1 Yes
- 2 No
- 6 Valid skip

Did this gas-burning fireplace have a pilot light?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know

During the summer, did you turn the pilot light off?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 9 Not stated

Did your (most frequently used) gas-burning fireplace vent its exhaust out the chimney or out the side wall (direct vent)?

- 1 Out the chimney
- 2 Out the side wall (direct vent)
- 6 Valid skip
- 7 Don't know

During an average heating season, how often did you use your (most frequently used) gas-burning fireplace?

- 1 Every day
- 2 Several times a week
- 3 A few times a week
- 4 A few times a month
- 5 Never
- 6 Valid skip
- 7 Don't know

Section: OH – Other Heating

In 2003, in addition to your heat pump (with back-up furnace) / furnace / main heating, did your household use any other supplementary heating equipment?

- 1 Yes
- 2 No

What type of supplementary heating equipment did you use most often?

- 1 Electric baseboards
- 2 Portable electric heater
- 3 Wood stove
- 4 Furnace
- 5 Other – Specify
- 6 Valid skip

What energy source did your (supplementary) furnace use? Please exclude the energy used for running the fan.

- 01 Electricity
- 02 Natural gas
- 03 Oil
- 04 Wood
- 05 Propane
- 06 Other source
- 96 Valid skip

In an average week during the heating season, how many hours did you use the supplementary heating?

- 000 : 168 Heating – hours used per week
- 996 Valid skip
- 997 Don't know

In 2003, how many cords of wood did you use?

- 00 0
- 01 1 or less
- 02 2
- 03 3
- 04 4
- 05 5
- 06 6 or more
- 07 Used wood that cannot be measured in cords
- 96 Valid skip
- 97 Don't know

What type of cord was it?

- | | |
|---|--|
| 1 | Face or stove cord (approximately 16 inches 3 8 feet 3 4 feet) |
| 2 | Full or bush cord (4 feet 3 8 feet 3 4 feet) |
| 6 | Valid skip |
| 7 | Don't know |
| 9 | Not stated |

During the heating season, at what temperature did you usually maintain the largest heated area in your dwelling in the daytime? (roughly 6 a.m. to 4 p.m.)
... in the evening? (roughly 4 p.m. to 11 p.m.)
... at night? (roughly 11 p.m. to 6 a.m.)

- | | |
|----|---|
| 16 | 16°C or less (61°F or less) |
| 17 | 17°C (62°F–63°F) |
| 18 | 18°C (64°F–65°F) |
| 19 | 19°C (66°F–67°F) |
| 20 | 20°C (68°F–69°F) |
| 21 | 21°C (70°F–71°F) |
| 22 | 22°C (72°F) |
| 23 | 23°C (73°F–74°F) |
| 24 | 24°C or more (75°F or more) |
| 25 | Do not have control over the dwelling's temperature |
| 96 | Valid skip |
| 97 | Don't know |
| 98 | Refusal |
| 99 | Not stated |

In 2003, how many programmable thermostats did you have in your dwelling?

- | | |
|---------|----------------------------------|
| 00 : 13 | Thermostats – number in dwelling |
| 96 | Valid skip |
| 97 | Don't know |
| 98 | Refusal |

Did you program the thermostat / any of the thermostats?

- | | |
|---|------------|
| 1 | Yes |
| 2 | No |
| 6 | Valid skip |
| 9 | Not stated |

How many programmable thermostats were installed in 2003?

- | | |
|---------|--|
| 00 : 13 | Thermostats – number installed in 2003 |
| 96 | Valid skip |
| 99 | Not stated |

Section: AC – Air Conditioning

In 2003, did you have central air conditioning?

- | | |
|---|------------|
| 1 | Yes |
| 2 | No |
| 7 | Don't know |

How old is your central air conditioner?

- | | |
|---------|---------------------------------------|
| 01 : 40 | Age – central air conditioner (years) |
| 96 | Valid skip |
| 97 | Don't know |
| 98 | Refusal |
| 99 | Not stated |

Would you say it is...?

- | | |
|----|---------------------------------|
| 01 | 3 years old or less |
| 02 | 4 to 5 years old |
| 03 | 6 to 10 years old |
| 04 | 11 to 15 years old |
| 05 | 16 to 20 years old |
| 06 | 21 to 25 years old |
| 07 | 26 years old or more |
| 08 | Unsure; was there when moved in |
| 96 | Valid skip |
| 97 | Don't know |
| 99 | Not stated |

Is your central air conditioner an ENERGY STAR® qualified product?

- | | |
|---|------------|
| 1 | Yes |
| 2 | No |
| 6 | Valid skip |
| 7 | Don't know |
| 9 | Not stated |

In an average week during the cooling season, how many hours did you use your central air conditioner (AC)?

000 : 168 Central AC – hours per week (cooling season)

996 Valid skip
997 Don't know
998 Refusal
999 Not stated

In 2003, how many window/room air conditioners did you use?

00 : 05 AC window or room – number used
97 Don't know

Was your (most frequently used) window/room air conditioner a...?

1 Louvred unit
2 Non-louvred unit
6 Valid skip
7 Don't know
8 Refusal
9 Not stated

What was the cooling capacity of your (most frequently used) window/room air conditioner in Btus?

05000 : 20000
AC window or room – cooling capacity (Btu)
99996 Valid skip
99997 Don't know
99998 Refusal
99999 Not stated

How old is the (most frequently used) window/room air conditioner?

01 : 35 Age – window or room AC (years)
96 Valid skip
97 Don't know

98 Refusal
99 Not stated

Would you say it is...?

01 3 years old or less
02 4 to 5 years old
03 6 to 10 years old
04 11 to 15 years old
05 16 to 20 years old
06 21 to 25 years old
07 26 years old or more
08 Unsure; was there when moved in
96 Valid skip
97 Don't know
99 Not stated

Is your (most frequently used) window/room air conditioner an ENERGY STAR® qualified product?

1 Yes
2 No
6 Valid skip
7 Don't know
9 Not stated

In an average week during the cooling season, how many hours did you turn on your (most frequently used) window/room air conditioner?

000 : 168 Window/room AC – hours per week (cooling season)
996 Valid skip
997 Don't know
999 Not stated

In 2003, did you have a central ventilation system, also known as an air exchanger, which provided fresh air for the entire dwelling?

1 Yes
2 No
7 Don't know

Did your air exchanger have a heat recovery system (heat exchanger)?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 8 Refusal
- 9 Not stated

During an average week during the cooling season, how many hours did you use your (most frequently used) ceiling fan?

- 000 : 168 Ceiling fan – hours per week (cooling season)
- 996 Valid skip
- 997 Don't know
- 999 Not stated

When is the air exchanger used?

- ... All year
- ... Heating season
- ... Cooling season
- ... Occasionally
- ... Never
- ... Other – Specify

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 9 Not stated

Section: DFS – Dwelling Features

In what year was this dwelling originally built?

- 1900 : 2003 Year of construction of dwelling
- 9997 Don't know
- 9998 Refusal

Section: CEF – Ceiling Fans

In 2003, how many ceiling fans did you use?

- 00 : 10 Ceiling fans – number used
- 97 Don't know

Would you say it was built...?

- 01 Before 1946
- 02 Between 1946 and 1960
- 03 Between 1961 and 1977
- 04 Between 1978 and 1983
- 05 Between 1984 and 1995
- 06 Between 1996 and 2000
- 07 In 2001 or later
- 96 Valid skip
- 97 Don't know
- 99 Not stated

In an average week during the heating season, how many hours did you use your (most frequently used) ceiling fan?

- 000 : 168 Ceiling fan – hours per week (heating season)
- 996 Valid skip
- 997 Don't know
- 999 Not stated

Excluding the basement, how many storeys does your dwelling have?

- 01 One storey
- 02 One and one-half storeys
- 03 Two storeys
- 04 Two and one-half storeys
- 05 Three storeys
- 06 Split level
- 07 Other – Specify
- 96 Valid skip

How many storeys does your building have? Include storeys below ground and penthouses; exclude storeys used only as indoor parking.

01 : 07 Number of storeys building has
96 Valid skip
97 Don't know

How many apartments does your building have?

002 : 200 Number of apartments building has
996 Valid skip
997 Don't know
998 Refusal

On which floor is your apartment located?

0 Basement
1 First floor
2 Second floor
3 Third floor
4 Fourth floor
6 Valid skip

Is there indoor parking in your building?

1 Yes
2 No
6 Valid skip

How many levels of indoor parking are there in your building?

00.5 : 06.0 Number of levels of indoor parking
99.6 Valid skip
99.7 Don't know

Is the indoor parking heated?

1 Yes
2 No
6 Valid skip
7 Don't know

Section: DFN – Dwelling Foundation

Most houses are built on basements, crawl spaces, concrete slabs (slab on grade), or some combination of these. What is your house built over? Is it a...?

... Basement
... Crawl space
... Concrete slab
... Pillars
... Other – Specify
... No foundation

1 Yes
2 No
6 Valid skip

During the heating season, is your basement / crawl space usually heated?

1 Yes
2 No
6 Valid skip
7 Don't know

How many of your basement / crawl space (outside) walls are insulated on the inside?

0 0
1 1
2 2
3 3
4 4
5 Difficult to answer because shape
 of house is irregular
6 Valid skip
7 Don't know
8 Refusal

What percentage of your basement / crawl space (outside) walls are insulated on the inside?

000 : 100 Percentage of walls that are insulated
996 Valid skip
997 Don't know
998 Refusal
999 Not stated

Section: DG – Dwelling Garage

Does your dwelling have a garage?

- 1 Yes
2 No
6 Valid skip

Is your garage attached to the dwelling?

- 1 Yes
2 No
6 Valid skip

Is your garage insulated?

- 1 Yes
2 No
6 Valid skip
7 Don't know

During the heating season, is your garage usually heated?

- 1 Yes
2 No
6 Valid skip

What type of garage does your dwelling have? Is it a...?

- 1 One-car garage
2 Two-car garage
3 Three-or-more-car garage
6 Valid skip
7 Don't know

Section: SOD – Size of Dwelling

What is the heated area of your basement in square feet/metres?

- 00015 : 20000
Basement – heated area
99996 Valid skip

- 99997 Don't know
99998 Refusal
99999 Not stated

Would you say it is...?

- 01 55 square metres or less (600 square feet or less)
02 56 to 95 square metres (601 to 1000 square feet)
03 96 to 140 square metres (1001 to 1500 square feet)
04 141 to 185 square metres (1501 to 2000 square feet)
05 186 to 230 square metres (2001 to 2500 square feet)
06 231 or more square metres (2501 or more square feet)
96 Valid skip
97 Don't know
99 Not stated

What is the inside measurement of the length and width of your basement in feet/metres?

- 0015 : 0048 Basement – inside length and width
9996 Valid skip
9997 Don't know
9999 Not stated

Excluding the basement and/or garage, what is the heated area of your dwelling in square feet/metres?

- 00015 : 54450
Dwelling – heated area
99997 Don't know
99998 Refusal
99999 Not stated

Would you say it is...?	04	141 to 185 square metres (1501 to 2000 square feet)
01 55 square metres or less (600 square feet or less)	05	186 to 230 square metres (2001 to 2500 square feet)
02 56 to 95 square metres (601 to 1000 square feet)	06	231 or more square metres (2501 or more square feet)
03 96 to 140 square metres (1001 to 1500 square feet)	96	Valid skip
04 141 to 185 square metres (1501 to 2000 square feet)	97	Don't know
05 186 to 230 square metres (2001 to 2500 square feet)	99	Not stated
06 231 or more square metres (2501 or more square feet)		
96 Valid skip		
97 Don't know		
99 Not stated		

What is the inside measurement of the length and width of your dwelling in feet/metres?

0007 : 0068	Dwelling – inside length and width
9996	Valid skip
9997	Don't know
9999	Not stated

Section: SOG – Size of Garage

What is the size of the heated area of your indoor garage in square feet/metres?

000035 : 010000	Indoor garage – heated area
999996	Valid skip
999997	Don't know
999999	Not stated

Would you say it is...?

01	55 square metres or less (600 square feet or less)
02	56 to 95 square metres (601 to 1000 square feet)
03	96 to 140 square metres (1001 to 1500 square feet)

What is the inside measurement of the length and width of your indoor garage in feet/metres?

00004 : 20000	Indoor garage – inside length and width
99996	Valid skip
99997	Don't know
99999	Not stated

Section: SBD – Size of Building

Excluding the indoor parking, what is the heated area of your building in square feet/metres?

000030 : 042000	Building – heated area
999996	Valid skip
999997	Don't know
999998	Refusal
999999	Not stated

Would you say it is...?

01	165 square metres or less (1800 square feet or less)
02	166 to 285 square metres (1801 to 3000 square feet)
03	286 to 420 square metres (3001 to 4500 square feet)
04	421 to 555 square metres (4501 to 6000 square feet)
05	556 to 690 square metres (6001 to 7500 square feet)
06	691 or more square metres (7501 or more square feet)

96 Valid skip
 97 Don't know
 99 Not stated

What is the inside measurement of the length and width of your building in feet/metres?

00026 : 00150

Building – inside length and width
 99996 Valid skip
 99997 Don't know
 99999 Not stated

What type(s) of window(s) was/were installed?

... Low-E coating gas-filled double pane
 ... Gas-filled double pane
 ... Standard double pane
 ... Low-E coating gas-filled triple pane
 ... Gas-filled triple pane
 ... Standard triple pane
 ... Other – Specify

1 Yes
 2 No
 6 Valid skip
 7 Don't know

Section: AC – Attic and Crawl Space

Does your dwelling have an attic or a crawl space (a space between the roof and the top floor of your dwelling)?

1 Yes
 2 No
 6 Valid skip
 7 Don't know
 8 Refusal

Out of the number of replaced or added windows, how many of them are low-E coating gas-filled double pane?

001 : 002 Number of low-E coating gas-filled double pane
 996 Valid skip
 999 Not stated

Is your attic or crawl space insulated?

1 Yes
 2 No
 6 Valid skip
 7 Don't know
 8 Refusal
 9 Not stated

What type(s) of window(s) was/were replaced by the low-E coating gas-filled double pane?

... Single pane with storm windows
 ... Single pane without storm windows
 ... Double pane
 ... Triple pane
 ... Not a replacement – additional window(s)
 ... Other – Specify

1 Yes
 2 No
 6 Valid skip
 9 Not stated

Section: WIN – Windows

In 2003, how many windows were replaced or added?

000 : 025 Number of windows replaced/added
 996 Valid skip

Of the remaining number of replaced or added windows, how many of them are gas-filled double pane?

001 : 002 Number of gas-filled double pane
 996 Valid skip
 999 Not stated

What type(s) of window(s) was/were replaced by the gas-filled double pane?

- ... Single pane with storm windows
- ... Single pane without storm windows
- ... Double pane
- ... Triple pane
- ... Not a replacement – additional window(s)
- ... Other – Specify

1	Yes
2	No
6	Valid skip
9	Not stated

What type(s) of window(s) was/were replaced by the low-E coating gas-filled triple pane?

- ... Single pane with storm windows
- ... Single pane without storm windows
- ... Double pane
- ... Triple pane
- ... Not a replacement – additional window(s)
- ... Other – Specify

1	Yes
2	No
6	Valid skip
9	Not stated

Of the remaining number of replaced or added windows, how many are standard double pane?

001 : 003	Number of standard double pane
996	Valid skip
999	Not stated

Of the remaining number of replaced or added windows, how many are gas-filled triple pane?

006 : 006	Number of gas-filled triple pane
996	Valid skip
999	Not stated

What type(s) of window(s) was/were replaced by the standard double pane?

- ... Single pane with storm windows
- ... Single pane without storm windows
- ... Double pane
- ... Triple pane
- ... Not a replacement – additional window(s)
- ... Other – Specify

1	Yes
2	No
6	Valid skip
9	Not stated

What type(s) of window(s) was/were replaced by the gas-filled triple pane?

- ... Single pane with storm windows
- ... Single pane without storm windows
- ... Double pane
- ... Triple pane
- ... Not a replacement – additional window(s)
- ... Other – Specify

1	Yes
2	No
6	Valid skip
9	Not stated

Of the remaining number of replaced or added windows, how many are low-E coating gas-filled triple pane?

001 : 025	Number of low-E coating gas-filled triple pane
996	Valid skip
999	Not stated

Of the remaining number of replaced or added windows, how many are standard triple pane?

002 : 006	Number of standard triple pane
996	Valid skip
997	Don't know
999	Not stated

What type(s) of window(s) was/were replaced by the standard triple pane?

- ... Single pane with storm windows
- ... Single pane without storm windows
- ... Double pane
- ... Triple pane
- ... Not a replacement – additional window(s)
- ... Other – Specify

- | | |
|---|------------|
| 1 | Yes |
| 2 | No |
| 6 | Valid skip |
| 9 | Not stated |

What type(s) of window(s) was/were replaced?

- ... Single pane with storm windows
- ... Single pane without storm windows
- ... Double pane
- ... Triple pane
- ... Not a replacement – additional window(s)
- ... Other – Specify

- | | |
|---|------------|
| 1 | Yes |
| 2 | No |
| 6 | Valid skip |
| 7 | Don't know |
| 9 | Not stated |

In 2003 (not counting the newly installed windows), were any improvements made to the caulking or weatherstripping of your windows?

- | | |
|---|------------|
| 1 | Yes |
| 2 | No |
| 7 | Don't know |

On how many windows was the caulking or weatherstripping improved?

- | | |
|---------|----------------------------|
| 01 : 25 | Number of windows improved |
| 96 | Valid skip |
| 97 | Don't know |
| 99 | Not stated |

During the heating season, do you put up plastic film on your windows?

- | | |
|---|------------|
| 1 | Yes |
| 2 | No |
| 7 | Don't know |

Have you noticed any condensation on the inside surfaces of your windows?

- | | |
|---|-----------------------------|
| 1 | Yes, on most of the windows |
| 2 | Yes, on some of the windows |
| 3 | No |

Have you noticed any air leaks or drafts around your windows?

- | | |
|---|------------|
| 1 | Yes |
| 2 | No |
| 7 | Don't know |

Section: IMP – Improvements

In 2003, did you make any of the following improvements to your dwelling that reduced energy consumption?

- ... Roof structure or surface
- ... Exterior wall siding
- ... Insulation of the roof or the attic
- ... Insulation of the basement or crawl space walls
- ... Insulation of any exterior walls (excluding the basement)
- ... Foundation
- ... Heating equipment
- ... Ventilation or air-conditioning equipment
- ... None of the above

- | | |
|---|------------|
| 1 | Yes |
| 2 | No |
| 6 | Valid skip |
| 7 | Don't know |
| 9 | Not stated |

In 2004, do you plan to make any of the following improvements to your dwelling that will reduce energy consumption?

- ... Roof structure or surface
- ... Exterior wall siding
- ... Insulation of the roof or the attic
- ... Insulation of the basement or crawl space walls
- ... Insulation of any exterior walls (excluding the basement)
- ... Foundation
- ... Heating equipment
- ... Ventilation or air-conditioning equipment
- ... None of the above

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 9 Not stated

What is the main reason you have not made any improvements or plan not to make any improvements in the future?

- 01 No improvements necessary
- 02 Improvements too costly
- 03 Not aware of government financial aid or assistance
- 04 No government financial aid or assistance
- 05 Do not have time
- 06 Other – Specify
- 96 Valid skip
- 97 Don't know
- 98 Refusal
- 99 Not stated

Section: LIT – Lighting

How many halogen light bulbs do you use? Please include halogen spotlights.

- 000 : 100 Number of halogen light bulbs used
- 997 Don't know

How many compact fluorescent lights do you use?

- 000 : 100 Number of compact fluorescent lights used
- 997 Don't know

Excluding the compact fluorescent lights, how many fluorescent lights do you use? For example, fluorescent tubes.

- 000 : 076 Number of fluorescent lights used
- 997 Don't know

How many security lights in motion detector fixtures do you use outdoors?

- 00 : 13 Number of security lights used
- 97 Don't know
- 98 Refusal

How many ordinary (incandescent) light bulbs do you use in your dwelling? (Please include ordinary light bulbs in your basement.)

- 000 : 100 Number of ordinary light bulbs used
- 997 Don't know

On an average day, do you turn on any ordinary (incandescent) light bulbs for more than three hours?

- 1 Yes
- 2 No
- 7 Don't know

Are any of the ordinary (incandescent) light bulbs that are turned on for more than three hours in a standard socket?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 9 Not stated

How many of the ordinary (incandescent) light bulbs that are in standard sockets and that are turned on for more than three hours do you have?

01 : 25 Number of ordinary lights on three hours or more
96 Valid skip
97 Don't know
99 Not stated

What is the wattage of (this (the most used) ordinary (incandescent) light bulb in a standard socket, that is (turned) on for more than three hours)?

0025 : 0300 Wattage of light on over three hours
9996 Valid skip
9997 Don't know
9999 Not stated

On an average day, for how many hours do you have (the (most used) ordinary (incandescent) light bulb in a standard socket turned on)?

03 : 24 Hours light on per day
96 Valid skip
97 Don't know
99 Not stated

What is the wattage of the second most used of these light bulbs?

0025 : 0240 Wattage of second light
9996 Valid skip
9997 Don't know
9999 Not stated

On an average day, for how many hours is the second most often used of these light bulbs turned on?

03 : 24 Hours second light on per day
96 Valid skip
97 Don't know
99 Not stated

Section: PNW – Pools and Water Devices

Do you use a hot water tank?

1 Yes
2 No
7 Don't know

Is it located in the dwelling?

1 Yes
2 No
6 Valid skip
9 Not stated

What source of energy is used to heat the running water in your dwelling?

01 Electricity
02 Oil
03 Natural gas
04 Propane
05 Solar panel
06 Other source
07 No hot running water
96 Valid skip
97 Don't know
98 Refusal

How old is your hot water tank?

01 : 50 Age – hot water tank (years)
96 Valid skip
97 Don't know
98 Refusal
99 Not stated

Would you say it is...?

- 01 5 years old or less
- 02 6 to 10 years old
- 03 11 to 15 years old
- 04 16 to 20 years old
- 05 21 to 25 years old
- 06 26 years old or more
- 07 Unsure, was there when moved in
- 96 Valid skip
- 97 Don't know
- 99 Not stated

Was your previous hot water tank still working when you replaced it with this one?

- 1 Yes
- 2 No
- 3 This is the original/first hot water tank
- 6 Valid skip
- 7 Don't know
- 8 Refusal
- 9 Not stated

Approximately how old was your previous hot water tank when you replaced it with this one?

- 01 5 years old or less
- 02 6 to 10 years old
- 03 11 to 15 years old
- 04 16 to 20 years old
- 05 21 to 25 years old
- 06 26 years old or more
- 96 Valid skip
- 97 Don't know
- 98 Refusal
- 99 Not stated

Is there add-on insulation around the outside of your hot water tank (an insulation blanket)?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 9 Not stated

Was the add-on insulation around the tank added in 2003?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 9 Not stated

Is there add-on insulation around the hot water pipes?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 8 Refusal
- 9 Not stated

Was the add-on insulation around the pipes added in 2003?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know
- 9 Not stated

Do you use a water-saving shower head?

- 1 Yes
- 2 No
- 7 Don't know
- 8 Refusal

Do you use tap attachments, such as screens or aerators, that reduce the flow of water?

- 1 Yes
- 2 No
- 7 Don't know

Do you have a swimming pool with a filter, solely for the use of your dwelling?

- 1 Yes
- 2 No
- 6 Valid skip

Is there a swimming pool with a filter for the use of the occupants in your building?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know

Do you use a pool heater?

- 1 Yes
- 2 No
- 6 Valid skip

What main source of energy does your pool heater use?

- 01 Natural gas
- 02 Electricity
- 03 Oil
- 04 Propane
- 05 Solar panel
- 06 Other source
- 96 Valid skip

Do you use a programmable timer control on the pool's filter?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know

Section: EU – Energy Use

In 2003, on an average weekday, was there someone at home all day? For example, someone taking care of children, someone retired, someone working at home, etc.

- 1 Yes
- 2 No
- 7 Don't know
- 8 Refusal

In 2003, for how many complete weeks was there no one at your dwelling? For example, on vacation, away on business travel, etc.

- 00 : 52 Number of weeks no one at dwelling
- 97 Don't know
- 98 Refusal

Household income is an important factor in the analysis of information. For the year 2003, what is your best estimate of the total income, before taxes and deductions, of all household members from all sources?

- 0000000
- 9999997 Don't know
- 9999998 Refusal

Can you estimate in which of the following groups your household income falls? Was the total household income less than \$20,000 or \$20,000 or more?

- 1 Less than \$20,000
- 2 \$20,000 or more
- 6 Valid skip
- 7 Don't know
- 8 Refusal

Was the total household income from all sources less than \$40,000 or \$40,000 or more?

- 1 Less than \$40,000
- 2 \$40,000 or more
- 6 Valid skip
- 7 Don't know
- 8 Refusal
- 9 Not stated

Was the total household income from all sources...?

- 1 Less than \$60,000
- 2 \$60,000 to less than \$80,000
- 3 \$80,000 or more
- 6 Valid skip
- 7 Don't know
- 8 Refusal
- 9 Not stated

So far, you have indicated that your household uses the following source(s) of energy:

electricity / natural gas / heating oil / propane / wood
Does your household use any other energy sources?

- 1 Yes
- 2 No
- 7 Don't know

Which one(s)...?

- ... Solar panel
- ... Wind power
- ... Other – Specify

- 1 Yes
- 2 No
- 6 Valid skip
- 9 Not stated

You have reported that no one in your dwelling was responsible for paying the bills for the following source(s) of energy:

electricity / natural gas / heating oil / propane
Is this correct?

- 1 Yes
- 2 No
- 6 Valid skip

In 2003, did your household pay bills for...?

- ... Electricity
- ... Natural gas
- ... Heating oil
- ... Propane
- ... None of the above

- 1 Yes
- 2 No
- 6 Valid skip

In 2003, were all of your dwelling's energy bills strictly for the energy consumed by your household? I mean that other charges for operating a farm, a business such as hairdresser, childcare, machine shop or for another dwellings such as apartments, etc. were not included in your energy bills?

- 1 Yes
- 2 No
- 6 Valid skip
- 7 Don't know

In 2003, approximately what proportion of the electricity consumption on your bills was strictly for your household's use?

- 000 : 100 Portion of electricity household use
- 996 Valid skip
- 997 Don't know
- 998 Refusal

In 2003, approximately what proportion of the natural gas consumption on your bills was strictly for your household's use?

000 : 100 Portion of natural gas household use
 996 Valid skip
 997 Don't know
 998 Refusal

In 2003, approximately what proportion of the heating oil consumption on your bills was strictly for your household's use?

000 : 100 Portion of heating oil household use
 996 Valid skip

In 2003, approximately what proportion of the propane gas consumption on your bills was strictly for your household's use?

050 : 100 Portion of propane gas household use
 996 Valid skip

Section: CES – Contact Energy Suppliers

Do you agree to let Statistics Canada contact your
 ... Electricity supplier(s)?
 ... Natural gas supplier(s)?
 ... Heating oil supplier(s)?
 ... Propane gas supplier(s)?

1 Yes
 2 No
 6 Valid skip
 7 Don't know

Can you provide me with your electricity, natural gas, heating oil and/or propane gas billing information for the period that covers all or part of January 2003 to December 2003 so that I can enter the data on my computer?

1 Yes
 2 No
 6 Valid skip
 8 Refusal

INTERVIEWER: Please ask the ACCOUNT HOLDER to provide you with a copy of an electricity, natural gas, heating oil and/or propane gas bill or contract so that you can transcribe the information onto the Consent Form.

Please note that the ACCOUNT HOLDER may have to provide the information from a computer if e-billing is used.

Once you have transcribed all the information, ask the ACCOUNT HOLDER to verify the information and sign the consent form. Ensure that all mandatory fields are completed. Indicate the consent form status.

1 Consent form has been signed
 2 Consent form will be mailed back
 6 Valid skip
 8 Refusal
 9 Not stated

Section: PGL – Permission to Contact Landlord

Is your landlord or property management responsible for paying the
 ... Electricity bills?
 ... Natural gas bills?
 ... Oil bills?
 ... Propane gas bills?

1 Yes
 2 No
 6 Valid skip

In order to contact the landlord / property management, we need your permission. We will also need the landlord / property management's name, address and telephone number. The information collected from the landlord / property management will be used for research purposes only and will be kept confidential.

Do you agree to let Statistics Canada contact your landlord / property management?

- 1 Yes
 - 2 No
 - 6 Valid skip
-

Section: Exit Variables

Permission to share respondent's (Occupant) information. Based on following question:

Do you agree to allow Statistics Canada to share your information with NRCan?

- 1 Yes
 - 2 No
-

Permission to share respondent's (Landlord) information. Based on following question:

Do you agree to allow Statistics Canada to share your information with NRCan?

- 1 Yes
 - 2 No
 - 6 Valid skip
 - 9 Not stated
-

Natural Resources Canada's Office of Energy Efficiency
Leading Canadians to Energy Efficiency at Home, at Work and on the Road

Canada