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# Survey of Household Energy Use 2007



*Detailed Statistical Report*



Canada

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

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## Foreword

The Office of Energy Efficiency (OEE) is pleased to release the *2007 Survey of Household Energy Use (SHEU-2007) Detailed Statistical Report*, which was a joint project between Statistics Canada and Natural Resources Canada (NRCan). This survey collected detailed data on the energy consumption habits of households in Canada for the OEE at NRCan.

The OEE has periodically conducted surveys in a continuing effort to assess the changing characteristics of household energy consumption across Canada. SHEU-2007 is the fourth Survey of Household Energy Use. The previous surveys took place in 1993, 1997 and 2003.

These surveys support the OEE's mandate to strengthen and expand Canada's commitment to energy efficiency in order to reduce greenhouse gas (GHG) emissions that contribute to climate change.

The primary objective of SHEU-2007 was to gather information on energy use and the factors affecting energy use in households that reside in houses and residential buildings.

More precisely, the survey collected information on

- dwelling characteristics
- number and use of appliances, electronics and other energy-consuming products
- energy efficiency characteristics
- energy consumption

This detailed statistical report presents the data collected through SHEU-2007 as a general overview of household energy use in Canada. A report entitled *2007 Survey of Household Energy Use — Summary Report*, which presents an analysis of the SHEU-2007 data, is also available.

The survey data will increase your knowledge of the various aspects of energy consumption within households. The data also enable NRCan to develop and fine-tune its ecoENERGY programs, which support Canadians as they try to achieve greater energy efficiency and reduce their GHG emissions.

To learn more about this publication, the OEE or ecoENERGY programs, contact us by e-mail at [euc.cec@nrcan.gc.ca](mailto:euc.cec@nrcan.gc.ca).

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

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Web site: [oee.nrcan.gc.ca](http://oee.nrcan.gc.ca)

## Office of Energy Efficiency – Surveys and publications

The Office of Energy Efficiency's (OEE's) National Energy Use Database (NEUD) is responsible for the development of a reliable, Canada-wide information base on energy consumption for all energy-consuming sectors. In addition to the 2007 Survey of Household Energy Use, the NEUD has undertaken a broad range of data development and analytical work. This information is available through numerous free publications that are available online and in print.

### ***Energy Consumption of Major Household Appliances Shipped in Canada, Summary Report – Trends 1990 to 2007***

This summary report outlines changes in the energy use and shipment distributions of the six major household appliances – refrigerators, freezers, dishwashers, electric ranges, clothes washers and electric clothes dryers – from 1990 to 2007. Data is collected through the cooperation of the Canadian Appliance Manufacturers Association. This report also contains shipment trend data on ENERGY STAR qualified major appliances.

### ***Canadian Vehicle Survey Summary Report, 2007***

This summary report highlights the energy consumption of Canada's on-road vehicle fleet, which includes light vehicles, medium trucks and heavy trucks. The report examines the main characteristics of vehicles in Canada as well as the age of the fleet, the number of vehicle-kilometres travelled and fuel consumption.

### ***Energy Use Data Handbook, 1990 to 2007***

This document provides data on Canadian energy use and greenhouse gas (GHG) emissions as well as information on major activities and relevant indicators influencing energy use. Such data form the foundation for analysis conducted by the OEE. The handbook focuses on the industrial, residential, commercial, transport and electricity generation sectors.

### ***Energy Efficiency Trends in Canada, 1990 to 2007***

This report provides an overview of Canada's secondary energy use and related GHG emissions. In addition to providing detailed information about energy intensity and energy efficiency in 2007, this report also analyses trends from 1990 to 2007. This analysis is based on the data from the *Energy Use Data Handbook*.

### ***Commercial and Institutional Consumption of Energy Survey, 2005***

The primary objective of this survey is to gather energy consumption and energy intensity data for commercial and institutional establishments in Canada. These data deepen our knowledge of the various aspects of energy consumption in this sector.

### ***Industrial Consumption of Energy, 1995 to 2007***

This survey and its summary report examine the energy use in the Canadian manufacturing sector and presents results that show how and where this sector uses energy. The survey focuses on energy use by fuel type in three subsectors – paper, primary metal and petroleum and coal products manufacturing.

### ***For documents and information***

For free copies of these publications or more information regarding these and other publications, visit the NEUD Web site at [oee.nrcan.gc.ca/statistics](http://oee.nrcan.gc.ca/statistics) or contact us:

National Energy Use Database  
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Ottawa ON K1A 0E4

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## How to interpret the tables

### Scope of the survey

This report presents representative data estimates for all households in all Canadian provinces. No data were collected for the territories.

The survey sample included households that reside in

- single detached houses
- double/row houses<sup>1</sup>
- mobile homes
- low-rise apartments<sup>2</sup>
- high-rise apartments<sup>3</sup>

The survey data were collected in three phases.

Phase One collected survey data through computer-assisted telephone interviews with dwelling owners and renters. This phase of the survey was entitled Households and the Environment Survey (HES). The HES topics included household energy use characteristics; water, fertilizer and pesticide use; recycling; composting; indoor environment; vehicles and transportation decisions; gas-powered equipment; purchasing decisions; and air quality.

This report presents only the energy use data from the HES. For more information on the HES, contact Statistics Canada.

Phase Two of the survey focused on the factors affecting energy use in households. This phase collected survey data through a mail-back questionnaire sent to dwelling owners and renters. Also, landlords of rented dwellings

and property managers of condominiums were surveyed in an attempt to obtain the most accurate responses possible. Landlords and property managers were questioned only about dwelling heating and cooling equipment, dwelling features and conditions, and energy use.

Phase Three gathered energy consumption data about individual households. These data were obtained either from the household or from the energy suppliers for the household.

For the purposes of this report, Phase Two and Three, as well as energy use questions from Phase One, are referred to as the 2007 Survey of Household Energy Use (SHEU-2007).<sup>4</sup>

Data estimates in this report are the result of merging data from the three phases of the survey. Natural Resources Canada (NRCan) merged the data to improve the data estimates for SHEU-2007.

See Appendix A for more details on the scope of survey, survey methodology and the data merging methodology.

See Appendix B for a glossary of terms used in this report.

See Appendix C for the survey questionnaires.

### Example of a typical table

All data in this report are presented in a data table format. A typical data table is presented below.

### Table 1.1 - General characteristics

NUMBER OF HOUSEHOLDS		BY REGION	
	Canada	Atlantic	
Number of households			
Number	12 932 350 A	941 738	A
Type of dwelling			
Single detached house	7 485 759 A	728 212	A
Double/row house	2 045 197 A	70 338	A
Low-rise apartment	2 130 172 A	84 844	A
High-rise apartment	1 098 734 A		U
Mobile home	172 488 A	32 872	M

<sup>1</sup> Duplexes are included in the double/row house category.

<sup>2</sup> Low-rise apartments are located in buildings that have fewer than five storeys.

<sup>3</sup> High-rise apartments are located in buildings with five or more storeys.

<sup>4</sup> Statistics Canada conducted Phase Two and Three on behalf of NRCan and refers to these phases as the "Households and the Environment Survey: Energy Use."



This table provides data estimates for the number of households in Canada and in the Atlantic Region as well as the number of households by type of dwelling in both regions.

For example, if the reader wants to know how many single detached houses were in the Atlantic Region in 2007, one would look for those categories in each column (see red arrows) and locate the data estimate that lines up with both categories (see the underlined data in red). In this example, there were 728 212 single detached houses in the Atlantic Region in 2007.

The data tables in this report – excluding the data presented in the “Energy consumption and intensity” section – are presented in terms of the number of households that have the characteristics listed in the table.

In the “Energy consumption and intensity” section, the data are presented in the same format but include units of energy use (gigajoules) and intensity (gigajoules per household).

### Quality of the data

The quality of the data estimates must be assessed because the estimates represent almost 13 million households but were created from a sample of approximately 10 000 households. The estimates are calculated by using a coefficient of variation. The results of this calculation are represented by a letter coding in the right column beside each data estimate. An example of the letter coding is circled in dark blue in the typical table presented on the previous page.

The letter coding is as follows:

- A** – Acceptable
- M** – Use with caution
- U** – Too unreliable to be published

Data estimates that receive a U code are too unreliable to be published because they either present too great a sampling error or had to be omitted to comply with the confidentiality requirements of the *Statistics Act*. Consequently, any data estimate in this report that receives a U code will not be published.

### Presentation of the data

If you have questions about the SHEU-2007 data estimates in this report or want a data table that was not in this report, at no charge, contact us:

National Energy Use Database  
580 Booth Street, 18th Floor  
Ottawa ON K1A 0E4

E-mail: [euc.cec@nrcan.gc.ca](mailto:euc.cec@nrcan.gc.ca)

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## Section 1



# Characteristics of households



# Table 1.1 - General characteristics (1/2)

NUMBER OF HOUSEHOLDS			BY REGION							
	Canada		Atlantic		Quebec		Ontario		Manitoba/ Saskatchewan	
Number of households										
Number	12 932 350	A	941 738	A	3 303 877	A	4 794 437	A	839 356	A
Region										
Canada	12 932 350	A								
Atlantic	941 738	A								
Quebec	3 303 877	A								
Ontario	4 794 437	A								
Manitoba/Saskatchewan	839 356	A								
Alberta	1 316 021	A								
British Columbia	1 736 920	A								
Type of dwelling										
Single detached house	7 485 759	A	728 212	A	1 522 558	A	2 735 817	A	590 127	A
Double/row house	2 045 197	A	70 338	A	671 080	A	816 413	A	51 321	M
Low-rise apartment	2 130 172	A	84 844	A	975 207	A	456 393	A	144 226	A
High-rise apartment	1 098 734	A		U	100 647	M	776 286	A		U
Mobile home	172 488	A	32 872	M	34 386	M		U	19 170	M
Dwelling construction date										
Before 1946	1 628 869	A	166 049	A	541 850	A	633 876	A	113 606	A
1946–1969	3 294 147	A	199 184	A	894 642	A	1 262 378	A	273 759	A
1970–1979	2 454 452	A	202 534	A	614 091	A	790 165	A	157 897	A
1980–1989	2 399 475	A	166 023	A	607 762	A	930 150	A	156 958	A
1990–1999	1 954 005	A	129 150	A	434 260	A	735 948	A	74 372	A
2000–2007	1 201 401	A	78 798	A	211 272	A	441 920	A	62 766	M
Type of population centre										
Urban	10 347 865	A	498 643	A	2 664 303	A	4 009 487	A	606 717	A
Rural	2 584 485	A	443 095	A	639 574	A	784 950	A	232 639	A
Occupation mode										
Own	9 249 014	A	785 914	A	1 976 836	A	3 499 560	A	632 620	A
Rent	3 682 709	A	155 824	A	1 327 042	A	1 294 877	A	206 737	A
Not stated		U	—	—	—	—	—	—	—	—
Number of people in the household										
1 member	3 199 139	A	200 674	A	948 928	A	1 105 515	A	216 233	A
2 members	4 427 745	A	376 533	A	1 211 941	A	1 551 449	A	270 345	A
3 members	1 906 470	A	151 651	A	418 699	A	742 048	A	125 327	A
4 or more members	2 924 525	A	181 001	A	620 075	A	1 228 860	A	181 767	A
Not stated	474 470	A	31 878	M	104 235	M	166 565	M		U

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: 2007 Survey of Household Energy Use

2007 Survey of Household Energy Use • Detailed Statistical Report

### Table 1.1 - General characteristics (2/2)

[illegible]

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## Section 2



# Dwelling characteristics



### Table 2.1 - Dwelling size

[illegible]

[illegible]

### Table 2.2 - Foundation (1/2)

NUMBER OF HOUSEHOLDS			BY REGION									
	Canada			Atlantic		Quebec		Ontario		Manitoba/ Saskatchewan		
Dwelling has a basement for foundation												
Yes	6 521 393	A		591 539	A	1 278 545	A	2 718 628	A	510 597	A	
No	1 089 242	A		127 303	A	148 190	A	226 301	A	47 854	A	
Don't know		U			U		U		U	—	—	
Not stated	834 058	A		52 322	M	383 568	A	188 198	A	45 128	M	
Dwelling has a crawl space for foundation												
Yes	901 556	A		84 661	A	62 890	A	336 537	A	71 532	A	
No	6 709 080	A		634 181	A	1 363 845	A	2 608 392	A	486 919	A	
Don't know		U			U		U		U	—	—	
Not stated	834 058	A		52 322	M	383 568	A	188 198	A	45 128	M	
Dwelling has concrete slabs for foundation												
Yes	856 213	A		50 130	A	311 000	M	172 970	A		U	
No	6 998 580	A		687 631	A	1 238 741	A	2 818 098	A	545 792	A	
Don't know	89 547	M			U		U		U		U	
Not stated	535 392	A		31 646	A	248 599	A	115 753	A	36 530	M	
Dwelling has pillars for foundation												
Yes	95 242	A			U		U		U		U	
No	7 759 551	A		709 063	A	1 531 864	A	2 971 384	A	559 421	A	
Don't know	89 547	M			U		U		U		U	
Not stated	535 392	A		31 646	A	248 599	A	115 753	A	36 530	M	
Other type of dwelling foundation												
Yes	146 333	A			U	44 478	M	34 811	M		U	
No	7 708 460	A		724 463	A	1 505 263	A	2 956 257	A	557 534	A	
Don't know	89 547	M			U		U		U		U	
Not stated	535 392	A		31 646	A	248 599	A	115 753	A	36 530	M	
Dwelling has no foundation												
Yes	85 782	A			U		U		U		U	
No	7 769 011	A		717 198	A	1 523 874	A	2 985 051	A	558 436	A	
Don't know	89 547	M			U		U		U		U	
Not stated	535 392	A		31 646	A	248 599	A	115 753	A	36 530	M	
Basement/crawl space is heated												
Yes	6 523 583	A		564 672	A	1 285 246	A	2 634 658	A	512 043	A	
No	544 412	A		82 480	A	39 381	M	229 372	A	28 717	M	
Don't know		U			U		U		U	—	—	
Not stated	834 058	A		52 322	M	383 568	A	188 198	A	45 128	M	
Heated area of basement/crawl space												
56 square metres or less (600 square feet or less)	1 381 642	A		102 606	A	231 958	A	742 457	A	49 885	M	
56 to 93 square metres (601 to 1,000 square feet)	2 555 945	A		218 763	A	531 485	A	1 040 971	A	208 858	A	
93 to 139 square metres (1,001 to 1,500 square feet)	2 077 069	A		204 570	A	391 529	A	661 402	A	226 078	A	
139 or more square metres (1,501 or more square feet)	507 461	A		38 734	A		U	189 829	A	27 222	M	
Don't know		U			U		U		U	—	—	
Not Stated	835 523	A		52 322	M	385 033	A	188 198	A	45 128	M	

		BY DWELLING CONSTRUCTION DATE							
Alberta	British Columbia	Before 1946	1946–1969	1970–1979	1980–1989	1990–1999	2000–2007		
876 052 A	546 032 A	883 280 A	1 608 839 A	1 245 787 A	1 171 755 A	914 456 A	697 278 A		
59 309 M	480 285 A	141 088 A	182 423 A	221 654 A	229 691 A	220 713 A	93 673 M		
U	U	U	U	U	U	U	U		
76 920 M	87 921 M	109 903 A	194 590 A	134 986 A	168 773 A	116 130 M	109 676 M		
62 309 M	283 627 A	194 435 A	243 116 A	178 940 A	126 820 A	118 323 A	39 921 M		
873 052 A	742 690 A	829 932 A	1 548 145 A	1 288 501 A	1 274 625 A	1 016 846 A	751 030 A		
U	U	U	U	U	U	U	U		
76 920 M	87 921 M	109 903 A	194 590 A	134 986 A	168 773 A	116 130 M	109 676 M		
50 937 M	252 244 A	U	142 327 A	148 197 A	184 773 A	152 319 A	97 923 M		
917 586 A	790 733 A	923 396 A	1 703 492 A	1 364 550 A	1 272 980 A	1 008 954 A	725 208 A		
U	U	U	U	U	U	U	U		
39 478 M	63 387 M	77 562 M	124 359 A	81 273 A	96 586 A	81 208 M	74 404 M		
U	U	U	U	U	U	U	U		
958 855 A	1 028 964 A	1 037 198 A	1 836 248 A	1 481 869 A	1 434 881 A	1 152 158 A	817 197 A		
U	U	U	U	U	U	U	U		
39 478 M	63 387 M	77 562 M	124 359 A	81 273 A	96 586 A	81 208 M	74 404 M		
U	U	27 274 M	U	U	U	U	U		
949 148 A	1 015 795 A	1 026 796 A	1 818 812 A	1 482 175 A	1 425 694 A	1 149 304 A	805 679 A		
U	U	U	U	U	U	U	U		
39 478 M	63 387 M	77 562 M	124 359 A	81 273 A	96 586 A	81 208 M	74 404 M		
U	U	U	U	U	U	U	U		
954 858 A	1 029 594 A	1 039 377 A	1 832 366 A	1 484 371 A	1 446 109 A	1 149 043 A	817 745 A		
U	U	U	U	U	U	U	U		
39 478 M	63 387 M	77 562 M	124 359 A	81 273 A	96 586 A	81 208 M	74 404 M		
880 375 A	646 589 A	844 599 A	1 600 196 A	1 257 156 A	1 188 722 A	946 660 A	686 250 A		
U	146 736 A	147 480 A	131 228 A	82 725 M	79 237 M	62 660 M	41 081 M		
U	U	U	U	U	U	U	U		
76 920 M	87 921 M	109 903 A	194 590 A	134 986 A	168 773 A	116 130 M	109 676 M		
161 709 M	93 028 A	229 950 A	339 602 A	268 971 A	211 230 M	200 385 A	131 504 M		
304 483 A	251 385 A	345 185 A	702 500 A	456 046 A	484 200 A	299 869 A	268 145 A		
361 548 A	231 944 A	162 958 A	477 823 A	456 879 A	406 056 A	359 450 A	213 904 A		
52 636 M	70 232 A	U	78 806 A	75 261 A	87 235 A	86 956 A	72 697 A		
U	U	U	U	U	U	U	U		
76 920 M	87 921 M	109 903 A	196 054 A	134 986 A	168 773 A	116 130 M	109 676 M		

### Table 2.2 - Foundation (2/2)

[illegible]



[illegible]

### Table 2.3 - Attic

[illegible]

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### Table 2.4 - Garage

[illegible]

[illegible]

### Table 2.5 - Windows

[illegible]



		BY DWELLING CONSTRUCTION DATE					
Alberta	British Columbia	Before 1946	1946–1969	1970–1979	1980–1989	1990–1999	2000–2007
101 395 M	68 968 M	187 885 A	218 734 A	119 733 A	80 613 M	U	U
60 877 M	177 683 A	66 514 M	152 935 A	130 453 A	103 649 M	105 319 M	U
254 126 A	254 973 A	233 130 A	504 132 A	451 634 A	440 020 A	287 733 A	143 358 A
342 903 A	575 600 A	401 625 M	536 407 A	529 810 A	640 895 A	670 682 A	398 871 A
U	U	U	53 447 M	51 248 M	61 656 M	30 628 M	U
88 836 M	74 830 M	101 437 M	204 459 A	184 686 A	162 224 A	103 111 A	105 852 A
U	— —	U	U	U	U	U	U
U	U	38 574 M	96 575 M	59 123 A	90 088 A	89 077 M	58 670 M
U	U	U	U	U	U	U	U
U	U	U	U	U	U	U	U
U	U	38 066 M	64 261 M	56 359 M	84 762 M	82 091 M	134 419 M
66 610 M	81 623 A	91 081 A	198 860 A	174 728 A	149 400 A	55 419 A	U
301 375 A	208 686 A	205 049 A	441 801 A	431 152 A	380 918 A	106 872 A	614 738 A
204 586 A	181 316 A	183 310 A	371 715 A	295 074 A	179 199 A	405 446 A	392 155 A
111 775 M	213 184 A	134 480 A	294 115 A	180 869 A	131 153 M	639 179 A	U
379 046 A	597 772 A	514 467 A	790 732 A	742 214 A	1 010 701 A	224 519 A	— —
60 511 M	66 849 M	124 997 A	157 244 A	108 399 A	120 609 M	U	U
U	U	U	30 415 M	30 395 M	U	62 225 M	U
135 164 M	190 041 A	161 441 A	472 022 A	361 325 A	297 437 A	254 333 A	120 102 M
531 279 A	525 163 A	571 237 A	1 180 184 A	842 559 A	889 075 A	684 787 A	359 225 A
619 769 A	933 560 A	822 616 A	1 496 946 A	1 177 131 A	1 161 008 A	944 027 A	700 104 A
U	U	U	U	U	U	U	U
U	U	U	58 254 M	U	U	U	U
484 273 A	531 731 A	822 428 A	1 274 539 A	906 970 A	838 822 A	561 879 A	212 474 A
783 912 A	1 072 572 A	767 558 A	1 747 246 A	1 445 080 A	1 483 349 A	1 303 172 A	952 787 A
U	U	U	198 115 M	62 403 M	51 970 M	62 059 M	U
U	U	U	74 248 M	39 999 M	U	U	U
200 879 A	194 107 A	551 676 A	806 792 A	530 124 A	410 715 A	207 627 A	118 696 M
1 089 086 A	1 452 954 A	1 058 699 A	2 352 763 A	1 856 992 A	1 909 540 A	1 655 791 A	1 058 802 A
U	U	U	134 592 M	67 336 M	79 220 M	90 588 M	U

**Table 2.6 - Dwelling improvements to reduce energy consumption (1/5)**

NUMBER OF HOUSEHOLDS			BY REGION									
			Canada		Atlantic		Quebec		Ontario		Manitoba/ Saskatchewan	
How long have you lived in the dwelling?												
5 years or less	5 275 156	A	285 422	A	1 347 774	A	1 918 605	A	313 668	A		
6 to 10 years	2 420 939	A	138 022	A	596 566	A	978 097	A	149 340	A		
11 to 20 years	2 546 134	A	183 892	A	632 679	A	981 727	A	185 626	A		
21 to 30 years	1 192 237	A	143 805	A	357 940	A	402 508	A	81 869	A		
More than 30 years	1 051 249	A	164 881	A	268 469	A	355 607	A	80 442	A		
Don't know	29 859	M	—	—		U		U	—	—		
Refusal	416 776	A		U	100 323	M	146 411	M		U		
Made any improvements to the dwelling that reduce energy consumption												
No improvements made	1 656 720	A	163 915	A	283 757	A	447 959	A	124 705	A		
Improvements have been made	6 100 760	A	570 244	A	1 288 164	A	2 521 812	A	431 219	A		
Not stated	896 758	A	49 007	A	296 302	A	246 951	A	64 421	A		
Households made improvements to the roof structure or surface												
Yes	2 455 325	A	255 332	A	614 970	A	991 383	A	128 880	A		
No	5 302 154	A	478 828	A	956 952	A	1 978 388	A	427 044	A		
Not stated	896 758	A	49 007	A	296 302	A	246 951	A	64 421	A		
How many years ago was improvement to the roof structure or surface made?												
5 years or less	1 284 969	A	140 125	A	236 378	A	598 249	A	80 225	M		
6 to 10 years	538 865	A	57 294	A	142 611	A	207 875	A	20 020	M		
11 to 20 years	353 963	A	32 582	M	106 554	A	123 771	A		U		
More than 20 years	77 348	A		U	25 250	M		U		U		
Not stated	1 096 939	A	67 244	A	400 479	M	292 449	A	70 770	A		
Households made improvements to heating equipment (including fireplaces and woodstoves)												
Yes	2 782 444	A	236 671	A	608 425	A	1 172 049	A	150 966	A		
No	4 975 036	A	497 489	A	963 496	A	1 797 722	A	404 958	A		
Not stated	896 758	A	49 007	A	296 302	A	246 951	A	64 421	A		
How many years ago was improvement to the heating equipment (including fireplaces and woodstoves) made?												
5 years or less	1 304 361	A	111 823	A	172 452	A	608 624	A	80 978	A		
6 to 10 years	590 320	A	51 585	A	114 557	A	279 405	A	24 305	M		
11 to 20 years	398 117	A	35 167	A	106 844	A	155 036	A	21 233	M		
More than 20 years	205 561	A		U	83 166	A	52 414	M		U		
Not stated	1 180 844	A	66 827	A	427 708	A	323 522	A	78 445	A		
Households made improvements to windows (including patio doors)												
Yes	3 325 563	A	337 664	A	833 124	A	1 380 166	A	223 030	A		
No	4 431 917	A	396 496	A	738 797	A	1 589 605	A	332 895	A		
Not stated	896 758	A	49 007	A	296 302	A	246 951	A	64 421	A		

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 Due to rounding the numbers may not add up and may differ slightly among tables. Source: 2007 Survey of Household Energy Use

		BY DWELLING CONSTRUCTION DATE							
Alberta		British Columbia		Before 1946	1946–1969	1970–1979	1980–1989	1990–1999	2000–2007
681 204 A	728 482 A	604 150 A	1 258 210 A	862 223 A	803 742 A	812 260 A	934 571 A		
248 014 A	310 900 A	282 587 A	462 639 A	420 894 A	471 025 A	545 941 A	237 852 A		
188 586 A	373 625 A	319 562 A	583 720 A	498 232 A	646 746 A	493 429 A	U		
89 297 A	116 817 A	153 194 A	295 556 A	347 030 A	385 543 A	U	— —		
76 046 M	105 805 A	245 900 A	547 035 A	254 713 A	U	— —	— —		
U	U	U	U	U	U	U	U		
U	U	U	136 537 M	67 336 M	79 220 M	90 588 M	U		
312 217 A	324 167 A	90 974 A	167 970 A	229 516 A	257 960 A	480 105 A	430 194 A		
604 150 A	685 170 A	970 363 A	1 670 530 A	1 261 521 A	1 177 111 A	650 697 A	370 538 A		
101 689 M	138 388 M	90 241 A	187 403 A	174 583 A	174 106 A	156 371 M	114 054 M		
169 323 A	295 438 A	536 811 A	759 653 A	535 467 A	480 846 A	129 558 A	U		
747 044 A	713 898 A	524 526 A	1 078 848 A	955 570 A	954 225 A	1 001 243 A	787 742 A		
101 689 M	138 388 M	90 241 A	187 403 A	174 583 A	174 106 A	156 371 M	114 054 M		
70 908 M	159 085 A	249 799 A	355 122 A	227 044 A	331 711 A	111 858 A	U		
45 315 M	65 750 M	97 370 A	194 864 A	130 892 A	100 624 A	U	U		
U	37 040 M	65 417 A	133 654 A	122 378 A	U	U	— —		
U	U	29 768 M	19 607 M	U	U	— —	— —		
110 592 M	155 407 A	U	243 809 A	204 288 A	189 451 A	159 221 M	115 471 M		
270 217 A	344 115 A	555 580 A	861 888 A	638 548 A	453 475 A	205 326 A	67 626 M		
646 150 A	665 221 A	505 758 A	976 612 A	852 489 A	981 597 A	925 476 A	733 105 A		
101 689 M	138 388 M	90 241 A	187 403 A	174 583 A	174 106 A	156 371 M	114 054 M		
161 421 A	169 064 A	211 552 A	365 194 A	310 914 A	238 026 A	116 926 A	61 749 M		
50 576 M	69 892 M	105 144 A	204 589 A	123 227 A	108 773 M	46 981 M	U		
U	50 980 M	85 208 A	122 743 A	106 966 A	54 756 A	28 443 M	— —		
U	U	47 507 M	92 967 A	45 283 M	U	— —	— —		
122 516 M	161 826 A	196 410 M	263 799 A	226 742 A	206 221 A	169 346 A	118 326 M		
249 327 A	302 253 A	645 303 A	1 087 078 A	819 169 A	611 135 A	138 287 A	U		
667 040 A	707 084 A	416 034 A	751 423 A	671 868 A	823 937 A	992 515 A	776 140 A		
101 689 M	138 388 M	90 241 A	187 403 A	174 583 A	174 106 A	156 371 M	114 054 M		

# Table 2.6 - Dwelling improvements to reduce energy consumption (2/5)

NUMBER OF HOUSEHOLDS	BY REGION				
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan
<b>How many years ago was improvement to the windows (including patio doors) made?</b>					
5 years or less	1 680 566 A	174 822 A	389 329 M	712 830 A	129 703 A
6 to 10 years	638 860 A	72 931 A	163 747 A	261 975 A	34 410 M
11 to 20 years	481 063 A	40 942 A	126 586 A	204 685 A	28 474 M
More than 20 years	210 361 A	U	76 730 M	67 249 M	U
Not stated	1 211 471 A	81 067 A	373 035 A	380 377 A	83 075 A
<b>Households made improvements to caulking or weather-stripping around windows or doors</b>					
Yes	2 557 430 A	251 989 A	514 386 A	1 097 116 A	181 163 A
No	5 200 049 A	482 170 A	1 057 535 A	1 872 655 A	374 762 A
Not stated	896 758 A	49 007 A	296 302 A	246 951 A	64 421 A
<b>How many years ago was improvement to the caulking or weather-stripping around windows or doors made?</b>					
5 years or less	1 540 323 A	151 708 A	238 341 A	702 922 A	126 771 A
6 to 10 years	348 533 A	36 342 A	82 327 M	140 339 A	U
11 to 20 years	214 607 A	15 724 M	57 660 M	83 246 M	U
More than 20 years	85 400 A	U	21 653 M	32 272 M	U
Not stated	1 265 326 A	85 713 A	410 708 A	385 288 A	88 157 A
<b>Households made improvements to the insulation of the basement or crawl space walls</b>					
Yes	1 382 961 A	128 590 A	270 917 A	549 288 A	140 703 A
No	6 374 519 A	605 570 A	1 301 005 A	2 420 483 A	415 221 A
Not stated	896 758 A	49 007 A	296 302 A	246 951 A	64 421 A
<b>How many years ago was improvement to the insulation of the basement or crawl space walls made?</b>					
5 years or less	538 473 A	61 743 A	87 428 A	212 286 A	62 430 M
6 to 10 years	193 969 A	U	U	93 545 A	U
11 to 20 years	257 484 A	U	61 870 M	105 322 M	17 172 M
More than 20 years	240 980 A	28 681 M	67 304 A	73 905 A	24 554 M
Not stated	1 048 814 A	57 716 A	326 011 A	311 180 A	77 770 A
<b>Households made improvements to exterior wall siding</b>					
Yes	1 006 064 A	171 648 A	283 251 M	262 459 A	104 513 A
No	6 751 416 A	562 512 A	1 288 671 A	2 707 312 A	451 411 A
Not stated	896 758 A	49 007 A	296 302 A	246 951 A	64 421 A
<b>How many years ago was improvement to the exterior wall siding made?</b>					
5 years or less	348 167 A	55 177 A	69 574 A	104 519 A	49 543 M
6 to 10 years	181 656 A	37 987 M	45 628 M	43 496 M	27 721 M
11 to 20 years	163 130 A	35 102 A	33 931 M	36 641 M	U
More than 20 years	132 674 A	21 692 M	40 637 M	32 107 M	U
Not stated	1 077 196 A	70 696 A	389 783 M	292 647 A	68 677 A

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		BY DWELLING CONSTRUCTION DATE													
Alberta		British Columbia		Before 1946		1946–1969		1970–1979		1980–1989		1990–1999		2000–2007	
118 719 A		155 164 A		323 864 M		434 395 A		387 203 A		398 081 A		118 574 A		U	
54 884 M		50 913 M		99 731 A		244 269 A		176 595 A		104 743 A		U		U	
U		40 883 M		82 446 A		203 238 A		143 073 A		U		U		— —	
U		U		73 633 M		92 042 A		37 286 M		U		— —		— —	
132 491 A		161 425 A		155 870 A		300 536 A		249 595 A		227 586 A		161 865 M		116 019 M	
239 546 A		273 229 A		539 589 A		752 759 A		566 483 A		428 059 A		189 323 A		81 217 M	
676 821 A		736 107 A		521 748 A		1 085 741 A		924 554 A		1 007 013 A		941 478 A		719 515 A	
101 689 M		138 388 M		90 241 A		187 403 A		174 583 A		174 106 A		156 371 M		114 054 M	
157 949 A		162 632 A		281 197 A		403 078 A		342 626 A		305 607 A		138 719 A		69 095 M	
U		41 270 M		51 576 M		140 743 A		100 552 A		34 848 M		U		U	
U		33 044 M		53 162 M		74 808 M		49 368 M		U		U		— —	
U		U		22 136 M		39 399 M		U		U		— —		— —	
125 508 A		169 953 A		221 760 M		282 135 A		229 446 A		224 130 A		184 753 A		123 102 M	
155 616 A		137 847 A		265 851 A		467 644 A		271 006 A		188 408 A		115 408 A		74 644 A	
760 751 A		871 489 A		795 486 A		1 370 857 A		1 220 031 A		1 246 663 A		1 015 394 A		726 088 A	
101 689 M		138 388 M		90 241 A		187 403 A		174 583 A		174 106 A		156 371 M		114 054 M	
64 938 M		49 647 M		111 515 A		179 907 A		94 314 A		52 280 M		51 082 M		49 375 M	
U		U		28 360 M		61 115 M		39 885 M		U		U		U	
U		34 213 M		53 851 M		71 755 M		48 481 M		64 980 M		U		— —	
U		U		47 270 A		105 205 A		69 120 A		U		— —		— —	
122 015 M		154 122 A		115 096 A		237 065 A		193 790 A		199 994 A		177 543 A		125 326 M	
110 142 A		74 051 M		318 832 M		328 298 A		237 370 A		73 418 A		28 430 M		U	
806 226 A		935 285 A		742 505 A		1 510 203 A		1 253 667 A		1 361 653 A		1 102 372 A		781 016 A	
101 689 M		138 388 M		90 241 A		187 403 A		174 583 A		174 106 A		156 371 M		114 054 M	
U		U		64 849 A		127 755 A		83 228 A		40 301 M		U		U	
U		U		40 156 M		47 955 M		70 638 M		U		U		U	
U		U		52 759 M		47 360 A		48 369 M		U		U		— —	
U		U		47 257 A		69 225 A		U		U		— —		— —	
112 157 M		143 237 M		204 052 M		223 406 A		195 181 A		177 988 A		161 098 M		115 471 M	

**Table 2.6 - Dwelling improvements to reduce energy consumption (3/5)**

NUMBER OF HOUSEHOLDS	BY REGION				
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan
<b>Households made improvements to insulation around hot water pipes</b>					
Yes	1 314 701 A	108 793 A	367 284 M	594 252 A	57 787 A
No	6 442 779 A	625 367 A	1 204 638 A	2 375 519 A	498 137 A
Not stated	896 758 A	49 007 A	296 302 A	246 951 A	64 421 A
<b>How many years ago was improvement to the insulation around hot water pipes made?</b>					
5 years or less	458 287 A	44 060 A	70 872 M	246 738 A	U
6 to 10 years	283 311 A	22 912 M	75 322 M	125 086 M	U
11 to 20 years	245 474 A	17 680 M	82 673 M	99 139 A	U
More than 20 years	104 161 A	U	37 394 M	40 650 M	U
Not stated	1 120 226 A	64 923 A	397 325 M	329 590 A	69 915 A
<b>Households made improvements to the insulation of the roof or attic</b>					
Yes	1 600 541 A	163 403 A	380 020 M	604 949 A	126 106 A
No	6 156 939 A	570 757 A	1 191 901 A	2 364 822 A	429 819 A
Not stated	896 758 A	49 007 A	296 302 A	246 951 A	64 421 A
<b>How many years ago was improvement to the insulation of the roof or attic made?</b>					
5 years or less	453 250 A	52 264 A	74 870 M	182 761 A	54 058 M
6 to 10 years	191 315 A	19 986 M	41 032 M	73 447 M	U
11 to 20 years	291 521 A	43 205 M	47 028 M	125 280 M	U
More than 20 years	372 343 A	32 168 M	107 511 A	123 841 A	33 575 M
Not stated	1 188 871 A	64 787 A	405 882 M	346 571 A	80 259 A
<b>Households made improvements to the insulation of exterior walls (excluding basement)</b>					
Yes	862 898 A	108 431 A	225 992 M	289 662 A	82 384 M
No	6 894 582 A	625 729 A	1 345 930 A	2 680 109 A	473 540 A
Not stated	896 758 A	49 007 A	296 302 A	246 951 A	64 421 A
<b>How many years ago was improvement to the insulation of exterior walls (excluding basement) made?</b>					
5 years or less	318 572 A	41 892 M	52 699 M	122 909 A	46 130 M
6 to 10 years	107 845 A	U	24 293 M	37 920 M	U
11 to 20 years	140 674 A	18 063 M	22 435 M	U	U
More than 20 years	139 819 A	U	38 995 M	44 948 M	U
Not stated	1 052 746 A	62 786 A	383 872 M	279 179 A	67 856 A
<b>Households made improvements to exterior doors (including garage door[s])</b>					
Yes	1 883 571 A	201 934 A	544 202 A	709 474 A	102 259 A
No	5 873 909 A	532 226 A	1 027 719 A	2 260 297 A	453 665 A
Not stated	896 758 A	49 007 A	296 302 A	246 951 A	64 421 A

		BY DWELLING CONSTRUCTION DATE						
Alberta	British Columbia	Before 1946	1946–1969	1970–1979	1980–1989	1990–1999	2000–2007	
77 318 M	109 269 A	271 697 M	387 115 A	258 822 A	220 025 A	93 906 A	83 135 M	
839 049 A	900 068 A	789 640 A	1 451 385 A	1 232 215 A	1 215 046 A	1 036 896 A	717 596 A	
101 689 M	138 388 M	90 241 A	187 403 A	174 583 A	174 106 A	156 371 M	114 054 M	
U	40 723 M	68 090 A	161 777 A	77 359 A	58 238 M	27 484 M	65 340 M	
U	U	41 099 M	74 482 M	60 896 M	67 364 M	U	U	
U	U	37 858 M	80 780 M	40 384 M	59 309 M	U	— —	
U	U	21 375 M	28 315 M	41 992 M	U	— —	— —	
109 463 M	149 010 A	193 516 M	229 163 A	212 776 A	196 742 A	167 731 A	120 298 M	
154 398 A	171 664 A	410 033 A	610 792 A	361 820 A	150 415 M	42 244 M	U	
761 969 A	837 672 A	651 304 A	1 227 709 A	1 129 217 A	1 284 657 A	1 088 558 A	775 494 A	
101 689 M	138 388 M	90 241 A	187 403 A	174 583 A	174 106 A	156 371 M	114 054 M	
56 358 M	32 939 M	103 205 M	162 776 A	105 727 A	56 505 M	U	U	
U	U	39 975 M	68 057 A	48 725 M	U	U	U	
U	41 204 M	72 444 M	112 231 A	54 405 A	U	U	— —	
31 813 M	43 436 M	76 177 A	189 911 A	90 639 A	U	— —	— —	
128 212 A	163 160 A	208 473 M	265 220 A	236 907 A	191 244 A	166 428 A	120 599 M	
73 743 M	82 686 A	347 128 M	264 943 A	147 026 A	68 056 M	U	U	
842 625 A	926 650 A	714 209 A	1 573 558 A	1 344 011 A	1 367 016 A	1 107 850 A	787 938 A	
101 689 M	138 388 M	90 241 A	187 403 A	174 583 A	174 106 A	156 371 M	114 054 M	
U	U	99 759 M	122 550 M	47 586 M	U	U	U	
U	U	33 918 M	33 154 M	30 918 M	U	U	U	
U	U	52 033 M	34 908 A	29 343 M	U	U	— —	
U	U	56 896 A	49 805 M	27 268 M	U	— —	— —	
114 085 M	144 969 M	194 763 M	211 929 A	186 494 A	179 817 A	163 724 A	116 019 M	
176 844 A	148 858 A	365 388 M	625 865 A	454 132 A	302 680 A	82 098 A	U	
739 523 A	860 479 A	695 950 A	1 212 635 A	1 036 905 A	1 132 391 A	1 048 704 A	747 324 A	
101 689 M	138 388 M	90 241 A	187 403 A	174 583 A	174 106 A	156 371 M	114 054 M	

**Table 2.6 - Dwelling improvements to reduce energy consumption (4/5)**

NUMBER OF HOUSEHOLDS	BY REGION					
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan	
<b>How many years ago was improvement to the exterior doors (including garage door[s]) made?</b>						
5 years or less	931 098 A	107 153 A	215 214 A	373 073 A	59 529 A	
6 to 10 years	371 771 A	38 513 A	97 415 A	166 352 A	15 387 M	
11 to 20 years	248 947 A	25 399 M	83 287 A	79 767 M		U
More than 20 years	74 197 A	U	24 328 M	U		U
Not stated	1 154 317 A	72 877 A	420 261 A	314 429 A	74 389 A	
<b>Households installed a programmable thermostat</b>						
Yes	2 671 039 A	99 370 A	503 154 A	1 329 802 A	148 548 A	
No	5 086 440 A	634 790 A	1 068 768 A	1 639 969 A	407 377 A	
Not stated	896 758 A	49 007 A	296 302 A	246 951 A	64 421 A	
<b>How many years ago was a programmable thermostat installed?</b>						
5 years or less	1 434 981 A	70 868 A	301 590 A	680 060 A	84 003 A	
6 to 10 years	577 690 A	U	112 988 A	280 012 A	36 013 M	
11 to 20 years	286 853 A	U	34 292 M	150 083 A		U
More than 20 years	66 756 A	U	U	34 620 M		U
Not stated	1 201 517 A	58 148 A	342 006 A	431 978 A	75 018 A	
<b>Households made improvements to ventilation or central air conditioning equipment</b>						
Yes	1 483 729 A	46 193 A	336 117 M	826 256 A	115 547 A	
No	6 273 751 A	687 967 A	1 235 804 A	2 143 515 A	440 377 A	
Not stated	896 758 A	49 007 A	296 302 A	246 951 A	64 421 A	
<b>How many years ago was improvement to the ventilation or central air conditioning equipment made?</b>						
5 years or less	709 872 A	U	103 944 A	421 894 A	61 787 M	
6 to 10 years	308 270 A	U	79 490 M	181 617 A	19 735 M	
11 to 20 years	194 795 A	U	44 518 M	107 543 A		U
More than 20 years	66 641 M	U	U	36 853 M		U
Not stated	1 100 909 A	53 654 A	392 714 M	325 299 A	74 478 A	
<b>Households made improvements to the foundation</b>						
Yes	363 453 M	34 582 M	U	102 877 M		U
No	7 394 026 A	699 577 A	1 410 915 A	2 866 894 A	528 073 A	
Not stated	896 758 A	49 007 A	296 302 A	246 951 A	64 421 A	
<b>How many years ago was improvement to the foundation made?</b>						
5 years or less	131 290 M	U	U	56 032 M		U
6 to 10 years	32 219 M	U	U	U		U
11 to 20 years	38 579 M	U	U	U		U
More than 20 years	64 045 M	U	24 474 M	U		U
Not stated	994 079 A	50 787 A	377 938 M	255 782 A	66 965 A	



				BY DWELLING CONSTRUCTION DATE											
Alberta		British Columbia		Before 1946		1946–1969		1970–1979		1980–1989		1990–1999		2000–2007	
102 362	M	73 768	A	127 839	A	313 076	A	224 662	A	162 761	A	56 965	M		U
	U		U	56 553	A	120 160	A	102 195	A	75 664	M		U		U
	U		U	52 228	M	89 007	A	70 329	A		U		U		— —
	U		U		U	32 136	M		U		U		— —		— —
119 815	M	152 546	A	199 570	M	258 890	A	215 219	A	199 569	A	162 766	M		118 302 M
288 025	A	302 141	A	309 245	A	671 908	A	557 946	A	536 684	A	351 309	A		243 947 A
628 342	A	707 195	A	752 092	A	1 166 592	A	933 091	A	898 387	A	779 493	A		556 785 A
101 689	M	138 388	M	90 241	A	187 403	A	174 583	A	174 106	A	156 371	M		114 054 M
148 400	A	150 061	A	159 640	A	338 971	A	309 237	A	296 165	A	171 064	A		159 903 A
65 090	M	73 919	M	77 098	A	165 981	A	113 792	A	95 023	A	82 630	A		U
	U	45 745	M		U	67 245	M	66 298	M	85 352	M	45 326	M		— —
	U		U		U	27 849	M		U		U		— —		— —
134 985	A	159 383	A	124 240	A	259 265	A	230 934	A	223 488	A	208 660	A		154 931 M
83 697	A	75 918	M	229 513	M	436 744	A	292 677	A	294 979	A	144 236	A		85 579 A
832 670	A	933 418	A	831 825	A	1 401 756	A	1 198 359	A	1 140 092	A	986 566	A		715 153 A
101 689	M	138 388	M	90 241	A	187 403	A	174 583	A	174 106	A	156 371	M		114 054 M
64 077	M	36 822	M	75 956	M	192 444	A	134 276	A	163 582	A	77 810	A		65 804 M
	U		U	42 833	M	106 586	M	61 281	A	56 594	M		U		U
	U		U		U	63 583	M	51 079	M	37 692	M		U		— —
	U		U		U	28 366	M		U		U		— —		— —
109 861	M	144 902	M		U	233 169	A	206 019	A	196 305	A	175 373	A		121 933 M
	U		U		U	68 330	A	36 097	M		U		U		U
902 072	A	986 495	A	870 138	A	1 770 171	A	1 454 940	A	1 390 622	A	1 116 349	A		791 807 A
101 689	M	138 388	M	90 241	A	187 403	A	174 583	A	174 106	A	156 371	M		114 054 M
	U		U	46 851	M	27 252	M		U		U		U		U
	U		U		U		U		U		U		U		U
	U		U		U		U		U		U		U		— —
	U		U	31 936	M		U		U		U		— —		— —
101 689	M	140 917	M		U	192 941	A	178 809	A	175 180	A	158 663	M		114 602 M

### Table 2.6 - Dwelling improvements to reduce energy consumption (5/5)

[illegible]

2007 Survey of Household Energy Use • Detailed Statistical Report



## Section 3



# Residential heating



### Table 3.1 - Main heating system

[illegible]

		BY TYPE OF DWELLING				
Alberta	British Columbia	Single detached houses	Double/row houses	Low-rise apartments	High-rise apartments	Mobile homes
1 101 578 A	1 436 695 A	6 836 207 A	1 843 434 A	1 486 850 A	442 422 A	155 049 A
131 096 A	205 242 A	406 732 A	108 659 M	430 951 A	476 687 A	U
U	68 254 M	150 474 A	81 503 M	186 047 M	155 490 M	U
U	U	92 345 A	U	U	U	U
1 092 147 A	871 953 A	5 034 892 A	1 094 423 A	290 515 A	338 303 M	107 536 A
146 108 A	239 638 A	474 421 A	190 031 M	466 163 A	305 439 A	U
U	58 710 M	482 112 A	U	U	— —	U
— —	66 229 M	107 324 A	U	128 031 M	U	U
U	344 531 A	1 097 794 A	586 504 A	1 113 266 A	332 113 A	31 775 M
U	35 097 M	62 880 M	U	U	U	U
— —	U	U	U	U	U	U
U	41 619 M	160 657 A	U	U	U	U
U	U	U	U	U	U	— —
U	U	U	U	U	U	U
148 038 A	548 166 A	1 853 470 A	885 732 A	1 369 380 A	510 778 A	64 629 A
1 017 073 A	848 573 A	3 822 107 A	934 281 A	405 371 A	270 704 A	46 544 M
U	54 716 M	729 021 A	U	86 196 M	U	U
U	58 648 M	495 403 A	U	U	— —	U
U	U	79 623 A	U	U	— —	U
U	U	U	— —	U	U	— —
73 063 M	65 960 M	389 244 A	66 698 M	U	U	U
U	U	U	U	179 786 M	214 588 M	— —
U	U	68 181 M	U	U	U	U
360 154 A	265 265 A	1 731 475 A	349 483 A	164 554 M	U	31 487 M
219 768 A	243 566 A	1 419 127 A	271 691 A	119 489 M	U	U
102 361 M	208 561 A	982 727 A	187 195 A	176 987 M	U	U
108 471 M	166 048 A	839 278 A	194 102 M	153 354 M	U	U
76 079 M	87 645 A	539 698 A	118 839 M	140 232 M	U	U
102 949 A	197 952 A	682 811 A	306 750 M	186 172 A	56 362 M	U
106 041 A	227 458 M	446 465 A	375 445 A	536 782 A	235 365 A	U
115 587 M	147 545 A	444 580 A	144 485 A	280 500 A	199 419 M	U

### Table 3.2 - Profile of heating systems (1/3)

[illegible]



				BY TYPE OF DWELLING											
Alberta			British Columbia		Single detached houses		Double/row houses		Low-rise apartments		High-rise apartments		Mobile homes		
82 791	M		66 092	M	435 711	A		U		U		U		U	
924 758	A		661 276	A	3 564 390	A		819 789	A	186 240	M	111 947	M	46 544	M
	U		49 949	M	566 018	A		33 175	M		U		U		U
—	—			U	68 507	M			U	—	—		—	—	U
	U			U	68 509	A			U		U		—	—	U
	U		—	—		U		—	—	—	—		—	—	—
	U		60 444	M	298 904	A			U		U		U		U
	U			U		U			U		U		U		—
	U			U		U			U		U		U		—
326 309	A		147 912	A	1 261 223	A		263 650	A		U		U		U
204 964	A		158 751	A	1 055 433	A		179 686	A		U		U		U
94 470	M		100 636	A	653 345	A		99 959	M		U		U		U
97 783	M		88 800	A	559 133	A		80 077	M		U		U		U
72 069	M		45 941	M	325 449	A			U		U		U		U
95 591	A		115 314	A	359 230	A			U		U		U		U
79 806	M		97 053	M	318 255	A		179 452	A		U		U		U
121 153	A		117 545	M	502 824	A		114 891	M	92 827	M	245 711	M		U
313 841	A		160 611	A	1 268 957	A		269 633	A		U		U		U
295 242	A		273 609	A	1 454 002	A		275 093	A		U		U	45 944	M
297 966	A		256 164	A	1 426 086	A		297 284	A	73 077	M		U	31 923	M
185 098	A		181 569	A	885 846	A		252 413	M	168 010	M	267 064	M		U
146 077	A		88 915	A	1 187 336	A		188 106	A		U		U		U
344 172	A		238 970	A	1 446 928	A		222 660	A		U		U		U
204 643	A		175 111	A	696 847	A		137 107	M		U		U		U
274 395	A		230 616	A	1 058 833	A		324 293	A	67 992	M		U	45 680	M
122 859	A		138 340	A	644 949	A		222 257	M	162 214	M	266 462	M		U
513 936	A		211 026	A	2 336 056	A		427 248	A		U		U	24 967	M
265 219	A		218 179	A	1 128 826	A		261 595	A		U		U	30 298	M
201 299	A		297 449	A	984 238	A		215 611	A		U		U	39 255	M
	U			U	111 925	A			U		U		U		U
	U			U	113 380	M			U		U		U	—	—
	U		74 313	M	360 467	A			U		U		U		U

# Table 3.2 - Profile of heating systems (2/3)

	NUMBER OF HOUSEHOLDS		BY REGION			
	Canada		Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan
<b>Age of electric baseboards</b>						
5 years or less	251 916 A		32 907 M	175 154 A	U	U
6 to 10 years	206 981 A		36 436 M	134 045 A	U	U
11 to 15 years	313 611 A		34 091 M	211 703 A	U	U
16 to 20 years	401 205 A		40 627 A	274 766 A	U	U
21 to 25 years	330 512 A		22 558 M	215 622 A	62 593 M	U
26 years or more	461 719 A		40 477 M	264 378 A	79 829 M	19 461 M
Don't know	566 708 A		38 208 M	314 124 A	130 091 M	U
Not stated	628 801 A		36 732 A	311 795 A	131 550 M	U
<b>Main energy source for boiler</b>						
Electricity	145 221 A		U	35 829 M	U	U
Natural gas	640 739 A		U	66 373 M	282 072 A	42 094 M
Heating oil	288 520 A		135 037 A	U	U	—
Wood	19 047 M		U	U	U	U
Propane	U		U	—	U	U
Other	U		U	—	U	U
Dual source	59 379 A		17 543 M	U	U	U
Don't know	215 025 A		—	U	102 006 M	U
Not stated	U		U	—	U	U
<b>Age of boiler</b>						
5 years or less	151 923 A		39 446 A	U	52 135 M	U
6 to 10 years	130 420 M		36 205 A	U	U	U
11 to 15 years	130 232 A		26 544 M	U	40 687 M	U
16 to 20 years	78 256 M		U	U	U	U
21 to 25 years	52 027 M		U	U	U	U
26 years or more	162 473 M		U	U	41 076 M	U
Don't know	208 536 A		U	U	103 469 M	U
Not stated	522 826 A		38 152 M	94 675 M	204 713 A	U
<b>Households with an ENERGY STAR® boiler</b>						
Yes	97 262 M		U	U	U	U
No	297 987 A		29 140 M	U	79 714 M	U
Don't know	350 450 A		32 843 M	U	139 145 M	U
Not stated	690 993 A		109 734 A	112 318 M	260 336 A	U
<b>Households with a heat pump</b>						
Yes	1 122 897 A		70 600 A	435 597 A	352 509 A	46 748 A
No	8 992 064 A		735 049 A	2 372 446 A	3 178 764 A	593 299 A
Don't know	743 303 A		28 672 M	U	367 070 A	72 447 M
Not stated	767 228 A		55 515 A	220 276 M	235 392 A	78 471 M
<b>Type of heat pump</b>						
Air source	459 963 A		U	238 802 A	98 819 M	U
Ground source	104 394 M		U	U	U	U
Don't know	200 172 A		U	U	101 124 M	U
Not stated	358 367 A		36 507 M	146 278 A	102 191 M	21 996 M
<b>Age of heat pump</b>						
5 years or less	294 789 A		U	140 095 M	55 575 M	U
6 to 10 years	187 062 A		U	92 630 M	U	U
11 to 15 years	91 950 M		U	U	U	U
16 to 20 years	46 917 M		U	U	U	U
21 years or more	44 392 M		U	U	U	U
Don't know	111 015 M		U	U	U	U
Not stated	346 771 A		30 963 M	133 616 A	111 971 A	21 966 M

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 Due to rounding the numbers may not add up and may differ slightly among tables. Source: 2007 Survey of Household Energy Use

		BY TYPE OF DWELLING											
Alberta		British Columbia	Single detached houses		Double/row houses		Low-rise apartments		High-rise apartments		Mobile homes		
	U	U	122 592	A	U	72 831	M	U	U	U			
	—	—	U	94 124	A	U	54 009	M	U	U			
	—	—	48 003	M	130 907	A	63 730	M	114 379	M	U	U	
	—	—	40 262	M	167 031	A	86 314	M	115 489	M	U	U	
	—	—	U	144 855	A	78 479	M	85 360	M	U	U	U	
	U	57 062	M	214 101	A	94 272	M	132 775	M	U	U	U	
	U	U	69 169	M	106 894	M	293 711	A	93 544	M	U	U	
	U	73 408	M	155 013	A	71 431	M	244 712	A	152 576	M	U	
	U	U	40 334	M	U	60 914	M	U	U	—	—		
89 432	M	145 895	A	206 188	A	84 888	M	193 281	A	156 382	M	—	—
	—	—	U	154 031	A	U	54 477	M	U	U	U	—	—
	U	U	19 047	M	—	—	—	—	—	—	—	—	—
	—	—	U	U	U	U	U	—	—	—	—	—	—
	U	—	—	U	—	—	U	U	U	—	—	—	—
	U	U	38 761	M	U	U	U	U	U	—	—	—	—
	U	U	U	U	U	115 211	M	U	U	—	—	—	—
—	—	U	U	U	U	U	U	U	U	—	—	—	—
	U	U	97 324	A	U	U	U	U	U	U	U	—	—
	U	U	70 624	A	U	U	U	U	U	U	U	—	—
	U	U	85 331	M	U	U	U	U	U	U	U	—	—
	U	U	38 295	M	U	U	U	U	U	U	U	—	—
	U	U	37 568	M	U	U	U	U	U	U	U	—	—
	U	U	63 058	A	U	U	U	U	U	U	U	—	—
	U	U	U	U	U	88 723	M	U	U	U	U	—	—
68 259	M	99 461	M	58 495	M	U	246 879	A	182 057	M	U	—	—
	U	U	62 188	M	U	U	U	U	U	U	U	—	—
	U	U	148 074	A	U	U	U	U	U	U	U	—	—
	U	77 138	M	104 198	A	U	125 312	A	87 323	M	U	—	—
72 592	M	112 541	M	159 961	A	57 207	M	285 931	A	187 257	M	U	U
70 630	M	146 813	A	732 047	A	159 689	M	137 605	A	U	U	127 160	U
923 996	A	1 188 510	A	5 795 335	A	1 556 075	A	1 205 725	A	307 768	A	U	A
112 924	A	U	318 489	A	140 190	M	171 301	M	103 953	M	U	U	U
83 860	M	93 714	M	240 290	A	92 037	M	243 439	M	175 841	M	U	U
	U	68 583	M	347 722	A	U	U	U	U	U	U	U	U
	U	U	75 688	M	U	U	U	U	U	U	U	U	U
	U	U	103 584	A	U	U	U	U	U	U	U	U	U
	U	U	205 053	A	U	88 805	M	U	U	U	U	U	U
	U	U	223 423	A	U	U	U	U	U	U	U	—	—
	U	U	130 378	A	U	U	U	U	U	U	U	—	—
—	—	U	47 940	M	U	U	U	U	U	U	U	U	U
—	—	U	35 969	M	U	U	U	U	U	U	U	U	U
	U	U	U	U	U	U	U	U	U	U	U	U	U
	U	U	58 023	M	U	U	U	U	U	U	U	U	U
	U	U	206 717	A	U	75 383	M	U	U	U	U	U	U

# Table 3.2 - Profile of heating systems (3/3)

NUMBER OF HOUSEHOLDS			BY REGION									
	Canada			Atlantic		Quebec		Ontario		Manitoba/ Saskatchewan		
Households with an ENERGY STAR® heat pump												
Yes	170 707	A		U	65 979	M		U		U		
No	160 585	A		U	72 377	M		40 264	M		U	
Don't know	428 400	A		U	149 442	A		176 746	M		U	
Not stated	363 204	A		32 898	M	147 798	A	111 927	A		21 056	M
Main energy source for the heating stove												
Electricity		U		U		U		U			U	
Natural gas		U		— —		— —		U			U	
Heating oil		U		U		U		U			— —	
Wood	427 356	A		101 527	A	177 403	A	79 303	M		U	
Propane		U		— —		— —		— —			U	
Other		U		— —		U		U			— —	
Dual source	52 969	M		U		U		U			U	
Don't know		— —		— —		— —		— —			— —	
Not stated		U		U		U		— —			— —	
Age of the heating stove												
5 years or less	110 524	A		36 151	M	31 258	M		U		U	
6 to 10 years	114 183	A		26 976	M	43 047	M		U		U	
11 to 15 years	92 113	A			U	47 879	M		U		U	
16 to 20 years	56 908	M			U		U		U		U	
21 to 25 years	20 553	M			U		U		U		U	
26 years or more	27 129	M			U		U		U		— —	
Don't know	26 266	M			U		U		U		U	
Not stated	63 264	M			U		U		U		U	
Age of the electric radiant heating equipment												
5 years or less	63 528	M			U		U		U		— —	
6 to 20 years	75 358	M			U	33 678	M		U		U	
21 years or more	104 113	M			U		U		U		U	
Don't know	102 008	M			U		U		U		U	
Not stated	38 307	M			U		U		U		U	

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 Due to rounding the numbers may not add up and may differ slightly among tables. Source: 2007 Survey of Household Energy Use

			BY TYPE OF DWELLING									
Alberta		British Columbia	Single detached houses		Double/row houses		Low-rise apartments		High-rise apartments		Mobile homes	
	U	U	147 362	A	U		U		U			U
	U	U	128 623	A	U		U		U			U
	U	51 709 M	245 177	A	U		U		U			U
	U	U	210 886	A	U		88 041 M		U			U
	— —	— —		U	— —		— —		— —		— —	— —
	U	U		U	— —		U		— —		— —	— —
	— —	— —		U	— —		— —		— —		— —	— —
	U	53 722 M	406 953	A	U		U		— —			U
	— —	— —		U	— —		— —		— —		— —	— —
	— —	— —		U	— —		— —		— —		— —	— —
	U	U	45 121	M	U		— —		— —			U
	— —	— —	— —	— —	— —		— —		— —		— —	— —
	— —	U		U	— —		— —		— —		— —	— —
	U	U	108 734	A	— —		— —		— —			U
	U	U	103 307	A	U		— —		— —			U
	— —	U	87 882	A	U		— —		— —			U
	— —	U	55 157	M	U		— —		— —			U
	U	U	19 064	M	U		— —		— —			U
	— —	U	26 376	M	U		U		— —		— —	— —
	U	U		U	U		U		— —		— —	— —
	— —	U	58 805	M	U		— —		— —			U
	— —	U	32 703	M	U		U		U			U
	— —	U	31 950	M	U		U		U			U
	— —	U	24 222	M	U		U		U		— —	— —
	— —	U		U	U		U		U			U
	— —	U		U	U		U		U		— —	— —
											</	

# Table 3.3 - Supplementary heating systems

	NUMBER OF HOUSEHOLDS		BY REGION			
	Canada		Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan
<b>Households using supplementary heating equipment</b>						
Yes	5 287 947	A	464 064	A	1 183 126	A
No	7 045 756	A	449 047	A	1 912 944	A
Don't know	282 534	A		U	139 046	M
Not stated	316 113	A		U	84 788	M
<b>Type of supplementary heating equipment used most often</b>						
Electric baseboards	934 618	A	134 877	A	206 573	A
Portable electric heater	915 361	A	43 943	A	430 003	A
Wood stove	694 640	A	101 771	A	161 977	A
Wood fireplace	454 707	A	19 829	M	137 221	A
Gas fireplace	1 221 657	A	52 370	A	560 778	A
Electric fireplace	194 595	A	24 565	M	70 914	M
Furnace	332 311	A	38 487	M	148 670	A
Radiant floor heating	70 066	M		U		U
Other	135 651	A		U		U
Don't know		U	—	—		U
Not stated	921 240	A	56 486	A	327 075	A
<b>Use of supplementary heating equipment in an average week during the heating season</b>						
Did not use supplementary heating during an average week	970 556	A	78 345	A	330 732	A
1 to 7 hours	1 125 665	A	61 391	A	455 126	A
8 to 21 hours	864 090	A	67 388	A	328 491	A
22 to 50 hours	463 603	A	54 927	A	166 206	A
51 hours or more	332 761	A	42 694	A	87 700	M
Unsure, the heating equipment uses a thermostat		—	—	—	—	—
Don't know	867 708	A	90 488	A	299 306	A
Not stated	1 262 210	A	97 458	A	439 615	A
<b>Households using a supplementary furnace</b>						
Yes	1 118 943	A	100 036	A	434 168	A
No	3 251 769	A	282 283	A	1 170 720	A
Not stated	1 515 881	A	110 372	A	502 289	A
<b>Energy source of the supplementary furnace</b>						
Electricity	309 814	A	25 498	M	126 459	M
Natural gas	365 298	A		U	177 890	A
Heating oil	131 274	A	39 070	M	30 734	M
Wood	276 017	A	35 327	A	60 451	M
Propane	79 511	M		U		U
Other		U		U		U
Dual sources	76 138	A		U	43 729	M
Not stated	1 391 819	A	91 287	A	481 786	A

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 Due to rounding the numbers may not add up and may differ slightly among tables. Source: 2007 Survey of Household Energy Use

		BY TYPE OF DWELLING				
Alberta	British Columbia	Single detached houses	Double/row houses	Low-rise apartments	High-rise apartments	Mobile homes
526 720 A	919 312 A	3 984 258 A	619 339 A	430 772 A	172 800 M	80 779 M
755 511 A	764 295 A	3 318 032 A	1 364 280 A	1 506 216 A	769 176 A	88 052 A
U	U	U	U	106 002 M	101 939 M	— —
U	U	147 874 A	U	87 181 M	U	U
U	121 532 A	639 349 A	83 746 A	147 677 M	U	U
97 420 M	189 874 A	513 250 A	173 359 M	117 717 M	84 311 M	U
61 388 M	73 902 A	652 706 A	U	U	— —	U
68 665 M	65 392 M	373 614 A	U	U	— —	U
193 626 M	279 563 A	975 610 A	162 627 M	68 008 M	U	U
U	U	128 664 A	U	U	U	U
U	45 573 M	243 796 A	U	U	U	U
U	U	59 133 M	U	U	U	— —
U	U	110 307 A	U	U	— —	U
— —	— —	U	U	U	U	— —
51 406 M	134 002 A	468 081 A	85 054 M	202 227 M	154 073 M	U
94 179 A	182 182 A	757 932 A	79 192 M	80 941 M	U	U
156 914 A	197 405 A	853 505 A	150 978 A	98 928 M	U	U
73 394 A	151 199 A	668 715 A	101 301 M	64 565 M	U	U
U	91 062 M	372 682 A	U	U	U	U
U	58 548 M	266 854 A	U	U	U	U
— —	— —	— —	— —	— —	— —	— —
65 000 M	139 970 A	559 971 A	120 145 M	106 118 M	U	U
90 071 A	152 261 A	688 069 A	146 718 A	229 214 M	187 112 M	U
118 236 M	167 220 A	923 516 A	103 704 M	U	U	U
337 162 A	607 819 A	2 419 766 A	395 374 A	281 419 A	114 429 M	40 781 M
105 112 M	197 587 A	824 444 A	181 838 A	304 899 A	191 073 M	U
U	48 034 M	228 216 A	U	U	U	U
70 356 M	87 094 M	298 423 A	U	U	U	U
— —	U	105 935 A	U	U	— —	U
U	U	261 350 A	U	U	— —	U
U	U	69 118 M	U	U	— —	U
— —	U	U	U	— —	— —	— —
U	U	66 246 A	U	U	U	U
105 874 M	172 273 A	714 382 A	193 555 A	284 610 A	189 282 M	U

### 3.4 - Wood heating

[illegible]



[illegible]

## 3.5 - Fireplaces (1/2)

NUMBER OF HOUSEHOLDS			BY REGION										
	Canada			Atlantic		Quebec		Ontario		Manitoba/ Saskatchewan			
Households with a fireplace													
Yes	5 170 123	A		326 022	A		790 718	A		2 047 407	A	243 067	A
No	6 917 672	A		556 396	A		2 214 975	A		2 519 279	A	512 045	A
Don't know		U			U			U			U		U
Not stated	735 744	A		58 057	A		279 175	A		215 389	A	66 202	M
Households with a wood burning fireplace													
Yes	2 376 586	A		151 913	A		517 317	A		862 092	A	121 913	A
No	2 396 235	A		151 113	A		226 090	A		1 045 715	A	94 666	A
Don't know		U			U			U			U		U
Not stated	1 209 554	A		79 895	A		336 433	A		359 841	A	109 724	M
Number of wood burning fireplaces													
Zero	2 396 235	A		151 113	A		226 090	A		1 045 715	A	94 666	A
One	2 083 120	A		137 607	A		476 326	A		761 271	A	113 880	A
Two or more	293 466	A			U		40 991	M		100 822	A		U
Don't know		U			U			U			U		U
Not stated	1 209 554	A		79 895	A		336 433	A		359 841	A	109 724	M
Households with an electric fireplace													
Yes	760 940	A		93 229	A		131 596	A		269 151	A	49 486	M
No	3 837 321	A		190 929	A		553 656	A		1 554 082	A	177 701	A
Don't know		U		— —				U			U	— —	
Not stated	1 397 726	A		101 183	A		399 296	A		444 517	A	100 124	M
Number of electric fireplaces													
Zero	3 837 321	A		190 929	A		553 656	A		1 554 082	A	177 701	A
One	700 219	A		89 671	A		126 069	A		250 652	A	45 725	M
Two or more	60 720	M			U			U			U		U
Don't know		U		— —				U			U	— —	
Not stated	1 397 726	A		101 183	A		399 296	A		444 517	A	100 124	M
Main purpose of electric fireplace(s)													
Primarily for heat	259 329	A			U			U		109 399	M		U
Primarily for aesthetics	491 011	A		56 163	A		71 138	M		183 624	A		U
For both heat and aesthetics	394 819	A		39 654	A		64 536	M		134 194	A		U
Don't know		U			U		— —				U		U
Not stated	1 018 455	A		76 819	A		335 067	A		292 982	A	88 401	M
Households with a gas fireplace													
Yes	2 390 391	A		82 215	A		135 493	A		1 092 237	A	78 593	A
No	2 489 785	A		213 516	A		578 459	A		872 106	A	139 506	A
Don't know		U		— —				U			U		U
Not stated	1 122 610	A		89 611	A		369 080	A		309 541	A	108 025	M
Number of gas fireplaces													
Zero	2 489 785	A		213 516	A		578 459	A		872 106	A	139 506	A
One	2 017 626	A		77 389	A		126 586	M		951 299	A	73 228	A
Two or more	372 765	A			U			U		140 938	A		U
Don't know		U		— —				U			U		U
Not stated	1 122 610	A		89 611	A		369 080	A		309 541	A	108 025	M

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				BY TYPE OF DWELLING										
Alberta			British Columbia		Single detached houses		Double/row houses		Low-rise apartments		High-rise apartments		Mobile homes	
732 725	A		1 030 184	A	4 152 191	A	623 836	A	312 179	A	51 155	M	30 763	M
515 751	A		599 226	A	3 014 048	A	1 320 387	A	1 510 316	A	953 450	A	119 471	A
	U			U		U		U		U		U	—	—
56 466	M		60 454	M	316 420	A	91 459	M	232 549	A	73 062	M		U
315 555	A		407 795	A	2 048 518	A	220 496	A	91 842	M		U		U
354 697	A		523 953	A	1 807 762	A	342 999	A	194 086	M		U		U
	U			U		U		U		U	—	—		U
125 601	A		198 059	M	599 069	A	155 164	A	325 133	A	100 424	M		U
354 697	A		523 953	A	1 807 762	A	342 999	A	194 086	M		U		U
273 096	A		320 940	A	1 766 037	A	211 213	A	90 767	M		U		U
42 460	M		86 855	A	282 481	A		U		U	—	—		U
	U			U		U		U		U	—	—		U
125 601	A		198 059	M	599 069	A	155 164	A	325 133	A	100 424	M		U
112 545	M		104 932	A	580 590	A	101 701	M	47 736	M		U		U
564 784	A		796 169	A	3 108 697	A	435 695	A	252 397	M		U		U
	U			U		U		U		U	—	—	—	—
122 078	A		230 528	M	769 962	A	183 385	A	317 519	A	95 650	M		U
564 784	A		796 169	A	3 108 697	A	435 695	A	252 397	M		U		U
97 883	M		90 218	M	528 279	A	95 769	M	47 736	M		U		U
	U			U	52 311	M		U		—	—	U		U
	U			U		U		U		U	—	—	—	—
122 078	A		230 528	M	769 962	A	183 385	A	317 519	A	95 650	M		U
	U		40 454	M	165 283	A		U		U		U		U
96 213	M		60 973	M	383 400	A	63 052	M		U		U		U
	U		93 719	M	293 694	A		U		U		U		U
	U			U		U	—	—		U	—	—	—	—
83 670	M		141 517	M	507 138	A	103 420	A	293 731	M	92 982	M		U
393 938	A		607 914	A	1 848 183	A	348 259	A	164 571	M		U		U
322 681	A		363 517	A	2 040 875	A	266 515	A	130 457	M		U		U
	—	—		U		U		U		U		U	—	—
83 650	M		162 701	M	580 831	A	106 007	A	319 729	A	92 968	M		U
322 681	A		363 517	A	2 040 875	A	266 515	A	130 457	M		U		U
345 382	A		443 742	A	1 513 904	A	311 128	A	163 217	M		U		U
48 556	M		164 172	A	334 280	A		U		U	—	—	—	—
	—	—		U		U		U		U		U	—	—
83 650	M		162 701	M	580 831	A	106 007	A	319 729	A	92 968	M		U

### 3.5 - Fireplaces (2/2)

[illegible]

[illegible]



## Section 4



# Air conditioning



### Table 4.1 - Air conditioning of dwellings

[illegible]



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### Table 4.2 - Central air conditioning

[illegible]

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### Table 4.3 - Window/room air conditioners

[illegible]

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## Section 5



# Dwelling temperature



## Table 5.1 - Thermostats (1/2)

NUMBER OF HOUSEHOLDS			BY REGION									
	Canada			Atlantic		Quebec		Ontario		Manitoba/ Saskatchewan		
Households with a thermostat												
Yes	11 963 666	A		878 990	A	3 117 479	A	4 298 893	A	804 093	A	
No	858 344	A		55 197	M	165 027	A	478 778	A		U	
Don't know		U			U		U		U		U	
Not stated		U			U		U		U		U	
Number of thermostats												
One	6 754 692	A		286 822	A	794 449	A	3 193 826	A	592 994	A	
Two or more	5 206 235	A		592 168	A	2 323 030	A	1 103 976	A	211 099	A	
Don't know		U			U		U		U		U	
Not stated		U			U		U		U		U	
Households with a mechanical built-in unit thermostat												
Yes	1 060 299	A		106 076	A	441 020	A	271 308	A	61 557	M	
No	3 125 299	A		200 420	A	592 378	A	1 249 342	A	225 824	A	
Don't know	550 244	A		33 041	M		U	180 358	M	45 826	M	
Not stated	7 338 164	A		547 004	A	1 912 910	A	2 614 652	A	481 288	A	
Number of mechanical built-in unit thermostats												
None	3 125 299	A		200 420	A	592 378	A	1 249 342	A	225 824	A	
One	482 458	A		39 459	M	162 783	M	153 676	M	29 172	M	
Two or more	577 842	A		66 617	A	278 237	A	117 632	M	32 385	M	
Don't know	550 244	A		33 041	M		U	180 358	M	45 826	M	
Not stated	7 338 164	A		547 004	A	1 912 910	A	2 614 652	A	481 288	A	
Households with a mechanical wall thermostat												
Yes	5 213 580	A		537 680	A	1 538 936	A	1 461 408	A	341 881	A	
No	1 977 080	A		85 177	A	306 351	A	932 456	A	149 247	A	
Don't know	510 710	A		30 270	M		U	151 128	M	46 514	M	
Not stated	4 372 636	A		233 414	A	1 097 293	A	1 770 668	A	276 853	A	
Number of mechanical wall thermostats												
None	1 977 080	A		85 177	A	306 351	A	932 456	A	149 247	A	
One	2 775 569	A		207 307	A	400 436	A	1 053 902	A	265 017	A	
Two or more	2 438 011	A		330 372	A	1 138 500	A	407 506	A	76 864	A	
Don't know	510 710	A		30 270	M		U	151 128	M	46 514	M	
Not stated	4 372 636	A		233 414	A	1 097 293	A	1 770 668	A	276 853	A	
Households with an electronic, non-programmable thermostat												
Yes	1 351 340	A		102 371	A	484 808	A	356 094	A	80 951	M	
No	3 124 734	A		190 229	A	612 631	A	1 285 728	A	214 194	A	
Don't know	493 598	A		29 638	M		U	136 435	M	39 917	M	
Not stated	7 104 334	A		564 303	A	1 854 474	A	2 537 403	A	479 433	A	
Number of electronic, non-programmable thermostats												
None	3 124 734	A		190 229	A	612 631	A	1 285 728	A	214 194	A	
One	711 579	A		34 178	M	108 824	A	286 021	A	59 745	A	
Two or more	639 760	A		68 193	A	375 984	A	70 073	M		U	
Don't know	493 598	A		29 638	M		U	136 435	M	39 917	M	
Not stated	7 104 334	A		564 303	A	1 854 474	A	2 537 403	A	479 433	A	

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				BY OCCUPATION MODE					
Alberta		British Columbia		Owner		Renter		Not stated	
1 279 334	A	1 584 876	A	9 001 885	A	2 961 154	A		U
	U	101 374	M	221 049	A	637 296	A	—	—
	U		U		U		U	—	—
	U		U		U		U	—	—
998 223	A	888 379	A	5 427 056	A	1 327 636	A	—	—
281 111	A	694 851	A	3 573 182	A	1 632 426	A		U
	U		U		U		U	—	—
	U		U		U		U	—	—
	U	131 355	A	681 872	A	378 427	A	—	—
453 255	A	404 080	A	2 343 637	A	781 662	A	—	—
	U	70 475	M	315 321	M	234 922	M	—	—
752 673	A	1 029 637	A	5 687 135	A	1 650 401	A		U
453 255	A	404 080	A	2 343 637	A	781 662	A	—	—
	U	58 213	M	295 637	A	186 820	M	—	—
	U	73 142	M	386 235	A	191 607	A	—	—
	U	70 475	M	315 321	M	234 922	M	—	—
752 673	A	1 029 637	A	5 687 135	A	1 650 401	A		U
534 507	A	799 168	A	3 598 697	A	1 614 256	A		U
284 660	A	219 188	A	1 624 251	A	352 829	A	—	—
	U	65 511	M	295 651	M	215 058	M	—	—
442 729	A	551 679	A	3 509 366	A	863 270	A	—	—
284 660	A	219 188	A	1 624 251	A	352 829	A	—	—
445 450	A	403 456	A	1 996 015	A	778 927	A		U
89 057	A	395 711	A	1 602 682	A	835 329	A	—	—
	U	65 511	M	295 651	M	215 058	M	—	—
442 729	A	551 679	A	3 509 366	A	863 270	A	—	—
143 982	A	183 134	A	1 118 490	A	232 222	A		U
429 183	A	392 769	A	2 302 348	A	822 386	A	—	—
	U	59 167	M	282 103	M	211 495	M	—	—
668 244	A	1 000 477	A	5 325 024	A	1 779 309	A	—	—
429 183	A	392 769	A	2 302 348	A	822 386	A	—	—
115 905	A	106 905	A	594 890	A	116 062	M		U
	U	76 228	A	523 600	A	116 160	M	—	—
	U	59 167	M	282 103	M	211 495	M	—	—
668 244	A	1 000 477	A	5 325 024	A	1 779 309	A	—	—

### Table 5.1 - Thermostats (2/2)

[illegible]

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# Table 5.2 - Dwelling temperature (°C) (1/2)

NUMBER OF HOUSEHOLDS			BY REGION									
	Canada		Atlantic		Quebec		Ontario		Manitoba/ Saskatchewan			
Dwelling temperature when there and awake during the winter												
Thermostat turned off	82 849	M		U		U		U		U		
17 degrees or less	633 507	A		85 187	A	194 805	A	144 528	A	40 333	M	
18 degrees	676 873	A		89 859	A	154 737	A	185 031	A	37 111	M	
19 degrees	676 624	A		26 764	M	117 534	A	242 557	A	43 427	M	
20 degrees	3 049 378	A		277 326	A	766 714	A	1 038 082	A	178 049	A	
21 degrees	2 776 735	A		174 221	A	580 778	A	1 147 661	A	211 733	A	
22 degrees	2 038 119	A		104 879	A	651 019	A	788 553	A	142 267	A	
23 degrees or more	1 474 665	A		89 421	A	488 396	A	535 706	A	83 106	A	
Not stated	665 256	A		35 005	M	166 590	M	215 386	A	78 400	M	
Dwelling temperature when asleep during the winter												
Thermostat turned off	500 040	A		36 969	M	100 478	M	105 222	M		U	
17 degrees or less	2 980 310	A		376 858	A	669 658	A	887 231	A	177 889	A	
18 degrees	1 962 309	A		135 350	A	534 307	A	644 828	A	145 444	A	
19 degrees	1 119 035	A		36 621	M	257 584	A	483 104	A	100 666	A	
20 degrees	2 087 278	A		148 362	A	548 941	A	824 280	A	131 888	A	
21 degrees	1 210 636	A		53 688	A	300 787	A	563 336	A	92 536	A	
22 degrees	790 589	A		33 561	M	244 216	M	343 529	A	41 273	A	
23 degrees or more	742 882	A		25 687	M	305 327	M	243 652	A	45 024	M	
Not stated	680 925	A		39 444	M	177 554	M	220 480	A	54 720	M	
Dwelling temperature when there and awake during the summer												
Thermostat turned off	495 994	A			U		U	384 207	A	47 711	M	
17 degrees or less	82 376	M		—	—		U		U		U	
18 degrees	89 054	M			U		U	59 447	M		U	
19 degrees	80 960	M			U		U		U		U	
20 degrees	317 636	A			U		U	180 873	A	45 977	M	
21 degrees	361 145	A			U		U	232 286	A	36 052	M	
22 degrees	479 346	A			U		57 870	M	329 906	A	48 079	A
23 degrees or more	1 417 995	A			U		144 701	M	1 097 886	A	91 940	A
Not stated	786 636	A			U		304 566	M	318 980	A	64 025	M
Dwelling temperature when asleep during the summer												
Thermostat turned off	776 044	A			U		38 656	M	548 194	A	75 599	A
17 degrees or less	92 881	A			U			U	49 989	M		U
18 degrees	140 218	M			U			U	94 733	M		U
19 degrees	83 657	M			U			U		U		U
20 degrees	298 099	A			U			U	178 798	A	48 671	M
21 degrees	368 087	A			U			U	265 397	A	28 724	M
22 degrees	375 913	A			U		46 303	M	269 647	A	30 105	M
23 degrees or more	1 156 879	A			U		113 685	M	919 576	A	75 638	A
Not stated	819 364	A			U		305 307	M	334 149	A	65 861	M

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[illegible]

### Table 5.2 - Dwelling temperature (°C) (2/2)

[illegible]

[illegible]

### Table 5.3 - Dwelling temperature control behaviour

[illegible]



[illegible]



## Section 6



# Household appliances



# Table 6.1 - Refrigerator

NUMBER OF HOUSEHOLDS	BY REGION					
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan	
<b>Households with a refrigerator</b>						
Yes	12 783 263 A	934 455 A	3 224 086 A	4 772 507 A	823 304 A	
No	U	—	U	—	—	
Not stated	117 508 A	U	48 212 M	U	U	
<b>Number of refrigerators</b>						
One	8 928 292 A	716 791 A	2 276 041 A	3 265 714 A	543 417 A	
Two	3 336 745 A	179 572 A	822 745 A	1 334 804 A	237 632 A	
Three or more	194 031 A	U	U	79 298 A	22 317 M	
Don't know	U	U	U	—	U	
Not stated	439 348 A	32 405 M	150 801 A	114 621 A	34 931 M	
<b>Age of the main refrigerator</b>						
5 years or less	5 256 651 A	335 356 A	1 314 952 A	2 073 354 A	326 103 A	
6 to 10 years	3 385 882 A	239 820 A	885 062 A	1 298 749 A	181 136 A	
11 to 15 years	1 570 478 A	137 628 A	385 940 A	524 685 A	102 635 A	
16 to 20 years	827 298 A	74 831 A	259 276 A	260 052 A	51 511 A	
21 to 25 years	358 904 A	U	123 371 A	118 144 A	38 371 M	
26 years or more	202 393 A	U	70 923 M	52 097 M	U	
Don't know	912 438 A	86 349 M	92 607 M	363 219 A	87 702 M	
Not stated	386 728 A	21 915 M	140 167 M	104 136 M	30 906 M	
<b>Households with an ENERGY STAR® main refrigerator</b>						
Yes	4 986 912 A	350 278 A	1 155 324 A	2 088 233 A	278 899 A	
No	3 793 774 A	262 763 A	1 058 804 A	1 342 872 A	270 803 A	
Don't know	2 432 043 A	201 619 A	453 846 A	877 159 A	171 685 A	
Not stated	1 688 041 A	127 078 A	604 325 A	486 174 A	117 970 A	
<b>What was done with the previous refrigerator when it was replaced with the current one?</b>						
No old refrigerator – current one is original/first	4 135 452 A	238 980 A	1 237 815 A	1 415 385 A	189 093 A	
Disposed of refrigerator	3 177 993 A	280 538 A	441 442 A	1 548 820 A	210 783 A	
Kept it at home and plugged in all year	662 339 A	31 418 M	186 711 A	194 905 A	57 546 A	
Kept it at home/plugged it in when needed	248 906 A	U	68 583 M	74 895 A	34 155 M	
Resold	1 223 468 A	121 200 A	384 998 A	347 436 A	115 331 A	
Other	1 397 110 A	94 637 A	453 155 A	453 148 A	95 063 A	
Don't know	1 185 223 A	107 673 A	87 699 M	556 940 A	89 249 A	
Not stated	870 280 A	47 868 A	411 895 A	202 908 A	48 136 M	
<b>Age of the secondary refrigerator</b>						
5 years or less	843 772 A	50 016 A	123 454 A	393 427 A	34 046 M	
6 to 10 years	621 196 A	40 878 M	118 205 A	268 249 A	34 911 M	
11 to 15 years	659 691 A	31 460 M	157 528 A	307 373 A	48 048 A	
16 to 20 years	539 845 A	21 753 M	207 141 A	154 357 A	37 623 M	
21 to 25 years	225 320 A	U	73 356 A	69 809 A	25 204 M	
26 years or more	259 515 A	U	87 376 A	64 124 A	49 317 A	
Don't know	199 657 A	U	U	86 861 M	U	
Not stated	623 483 A	46 613 A	197 389 A	184 524 A	50 756 A	
<b>Households with an ENERGY STAR® secondary refrigerator</b>						
Yes	720 465 A	41 995 M	98 963 A	350 508 A	37 670 M	
No	1 711 329 A	84 146 A	445 346 A	669 446 A	146 341 A	
Don't know	491 905 A	37 869 A	88 946 A	207 344 A	37 623 M	
Not stated	1 048 779 A	60 938 A	363 001 A	301 426 A	74 305 A	

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 Due to rounding the numbers may not add up and may differ slightly among tables. Source: 2007 Survey of Household Energy Use

		BY SIZE OF HOUSEHOLD				
Alberta	British Columbia	One member	Two members	Three members	Four or more members	Not stated
1 305 693 A	1 723 218 A	3 164 916 A	4 365 587 A	1 889 016 A	2 896 126 A	467 618 A
— —	— —	U	U	— —	— —	— —
U	U	U	31 066 M	U	U	U
906 228 A	1 220 100 A	2 794 922 A	2 947 205 A	1 191 003 A	1 665 594 A	329 568 A
344 793 A	417 199 A	269 832 A	1 252 321 A	617 404 A	1 075 160 A	122 028 M
U	U	U	65 595 A	29 431 M	95 054 M	U
— —	— —	U	U	U	— —	— —
U	57 300 M	130 520 A	130 473 A	67 874 M	88 717 M	U
619 217 A	587 669 A	1 063 104 A	1 852 292 A	826 869 A	1 335 915 A	178 471 M
369 371 A	411 744 A	743 770 A	1 185 884 A	502 623 A	844 371 A	109 234 M
138 971 A	280 619 A	379 725 A	545 472 A	255 226 A	328 797 A	61 259 M
58 613 M	123 015 A	275 789 A	294 100 A	92 965 A	145 552 A	U
U	U	131 735 M	121 587 A	43 894 M	50 671 M	U
U	U	82 993 M	71 589 A	U	U	U
88 250 M	194 311 A	378 541 A	237 046 A	117 594 M	153 997 M	U
U	U	142 996 M	88 682 M	U	U	U
521 820 A	592 358 A	817 931 A	1 850 928 A	836 315 A	1 348 389 A	133 349 M
356 210 A	502 323 A	1 097 502 A	1 256 669 A	564 875 A	753 423 A	121 305 M
312 230 A	415 505 A	752 367 A	719 136 A	300 073 A	521 534 A	138 935 M
125 760 A	226 734 A	530 853 A	569 919 A	205 208 A	301 180 A	80 881 M
475 450 A	578 729 A	1 060 512 A	1 297 619 A	589 625 A	1 019 228 A	168 467 M
290 528 A	405 882 A	670 439 A	1 211 767 A	519 819 A	652 152 A	123 816 M
103 341 M	88 418 M	48 716 M	199 456 A	130 678 A	252 423 A	U
U	U	U	113 664 A	46 120 M	62 009 M	U
126 518 A	127 984 A	221 188 A	477 153 A	194 690 A	301 226 A	U
120 076 A	181 030 A	307 250 A	511 718 A	219 912 A	337 893 A	U
116 551 M	227 112 A	501 218 A	317 807 A	119 033 M	186 537 M	U
59 293 M	100 179 A	365 640 A	267 469 A	86 592 A	113 058 A	U
100 945 M	141 886 A	62 061 M	319 522 A	147 855 A	291 902 A	U
69 593 M	89 359 M	U	242 806 A	90 803 A	251 528 A	U
42 892 M	72 391 M	51 566 M	238 719 A	139 415 A	193 070 A	U
71 674 M	47 297 M	43 937 M	180 579 A	109 869 A	177 336 A	U
U	U	U	93 968 A	40 528 M	68 458 M	U
U	U	32 145 M	118 446 A	42 766 M	60 926 A	U
U	U	U	42 766 M	U	85 441 M	U
65 395 M	78 807 A	148 084 A	212 641 A	106 246 A	130 270 A	U
62 790 M	128 540 A	36 485 M	285 433 A	130 152 A	249 743 A	U
167 523 A	198 528 A	149 259 A	619 239 A	316 897 A	567 488 A	U
62 021 M	58 102 M	28 840 M	187 901 A	90 185 A	172 236 A	U
117 459 A	131 650 A	189 147 A	356 873 A	178 233 A	269 464 A	U

### Table 6.2 - Freezer

[illegible]



# Table 6.3 - Cooking appliances (1/3)

NUMBER OF HOUSEHOLDS			BY REGION							
	Canada		Atlantic		Quebec		Ontario		Manitoba/ Saskatchewan	
Households with a regular stove/range or separate cooktop with a built-in oven										
Yes	12 738 808	A	933 081	A	3 211 708	A	4 760 929	A	813 594	A
No	39 971	M		U		U		U		U
Not stated	153 571	A		U	73 786	M		U		U
Households with a regular stove/range										
Yes	10 713 867	A	760 426	A	2 823 599	A	4 005 229	A	664 169	A
No	412 427	A	30 341	M	94 193	A	140 736	A	22 158	M
Not stated	1 766 085	A	150 530	A	367 701	A	642 816	A	143 501	A
Age of the regular stove/range										
5 years or less	4 455 022	A	325 168	A	1 105 135	A	1 769 789	A	248 622	A
6 to 10 years	2 813 348	A	201 318	A	672 279	A	1 105 319	A	177 504	A
11 to 15 years	1 617 589	A	111 494	A	480 210	A	499 437	A	98 345	A
16 to 20 years	1 012 348	A	59 315	A	302 690	A	377 163	A	57 596	A
21 to 25 years	503 700	A	44 293	M	174 341	A	158 193	A	48 504	M
26 years or more	311 860	A	18 838	M	88 944	A	95 328	M	33 598	M
Not stated	1 766 085	A	150 530	A	367 701	A	642 816	A	143 501	A
Energy source of the regular stove/range										
Electricity	9 551 673	A	712 068	A	2 722 194	A	3 382 151	A	622 050	A
Natural gas	663 454	A		U		U	430 837	A		U
Electricity and natural gas	208 640	A		U		U	99 714	M		U
Oil	—	—	—	—	—	—	—	—	—	—
Wood		U		U	—	—	—	—	—	—
Propane	66 096	M		U		U		U		U
Don't know	64 803	M		U		U		U		U
Not stated	1 924 576	A	159 844	A	408 637	A	693 862	A	150 645	A
Households with a separate cooktop										
Yes	1 123 123	A	94 374	A	260 317	A	365 650	A	48 584	A
No	7 363 990	A	464 636	A	1 806 654	A	2 823 095	A	499 146	A
Not stated	4 405 266	A	382 286	A	1 218 523	A	1 600 035	A	282 098	A
Age of the separate cooktop										
5 years or less	458 228	A	21 212	M	75 491	M	164 490	A		U
6 to 10 years	219 519	A	25 173	M	49 307	M	66 837	M		U
11 to 15 years	175 352	A		U	46 849	M	48 944	M		U
16 to 20 years	159 040	A		U	61 615	M	51 094	M		U
21 to 25 years	66 135	A		U		U		U		U
26 years or more	44 849	M		U		U		U		U
Not stated	4 405 266	A	382 286	A	1 218 523	A	1 600 035	A	282 098	A
Energy source of the separate cooktop										
Electricity	846 319	A	85 153	A	242 877	A	259 526	A	35 875	A
Natural gas	161 200	A	—	—		U	80 717	M		U
Electricity and natural gas		U	—	—	—	—		U		U
Oil		U	—	—		U	—	—	—	—
Wood	—	—	—	—	—	—	—	—	—	—
Propane		U		U		U		U		U
Don't know		U		U		U		U	—	—
Not stated	4 483 484	A	389 938	A	1 228 456	A	1 612 835	A	289 232	A

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 Due to rounding the numbers may not add up and may differ slightly among tables. Source: 2007 Survey of Household Energy Use



		BY SIZE OF HOUSEHOLD				
Alberta	British Columbia	One member	Two members	Three members	Four or more members	Not stated
1 303 054 A	1 716 443 A	3 118 890 A	4 378 956 A	1 886 600 A	2 886 745 A	467 618 A
U	U	U	U	U	U	— —
U	U	57 634 M	41 031 A	U	U	U
1 092 133 A	1 368 312 A	2 441 538 A	3 732 251 A	1 631 127 A	2 538 479 A	370 471 A
U	U	64 334 M	134 459 A	56 197 M	109 284 A	U
180 282 A	281 255 A	670 651 A	553 277 A	218 199 A	268 111 A	55 847 M
544 258 A	462 050 A	770 677 A	1 651 494 A	751 500 A	1 138 941 A	142 410 M
302 909 A	354 018 A	593 056 A	895 730 A	432 901 A	790 694 A	100 967 M
119 042 A	309 061 A	409 619 A	584 834 A	235 307 A	322 043 A	65 786 M
72 550 M	143 034 A	323 275 A	347 210 A	117 784 A	198 655 A	U
U	52 135 M	204 193 A	151 471 A	61 251 M	71 729 M	U
U	48 012 M	140 718 A	101 511 A	U	U	U
180 282 A	281 255 A	670 651 A	553 277 A	218 199 A	268 111 A	55 847 M
958 230 A	1 154 981 A	2 249 490 A	3 345 056 A	1 416 243 A	2 203 472 A	337 412 A
88 190 A	112 649 A	82 995 M	229 279 A	125 740 A	203 198 A	U
U	U	U	62 604 M	U	56 564 M	U
— —	— —	— —	— —	— —	— —	— —
— —	— —	U	U	— —	— —	— —
U	U	U	27 136 M	U	U	— —
U	U	U	U	U	U	U
198 904 A	312 685 A	702 553 A	613 369 A	248 236 A	298 355 A	62 064 M
157 000 A	197 197 A	161 897 A	405 575 A	201 322 A	332 475 A	U
819 988 A	950 471 A	1 650 045 A	2 480 815 A	1 142 886 A	1 873 764 A	216 480 A
337 182 A	585 142 A	1 364 581 A	1 533 596 A	561 315 A	709 636 A	236 137 M
106 705 M	71 791 M	63 953 M	138 363 A	96 520 M	150 465 A	U
U	52 713 M	40 980 M	76 890 M	U	67 234 M	U
U	44 349 M	U	64 850 A	35 010 M	52 748 M	U
U	U	U	79 242 M	U	U	U
U	U	U	20 990 M	U	U	U
U	U	U	U	U	U	U
337 182 A	585 142 A	1 364 581 A	1 533 596 A	561 315 A	709 636 A	236 137 M
112 251 M	110 638 A	131 641 A	300 395 A	150 874 A	243 963 A	U
U	43 754 M	U	60 796 M	U	62 660 M	U
U	U	U	U	— —	U	— —
— —	— —	— —	— —	— —	U	— —
— —	— —	— —	— —	— —	— —	— —
— —	U	U	U	U	U	— —
— —	— —	U	U	— —	U	— —
346 289 A	616 734 A	1 382 118 A	1 566 331 A	580 643 A	717 761 A	236 629 M

## Table 6.3 - Cooking appliances (2/3)

NUMBER OF HOUSEHOLDS			BY REGION		
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan
Households with a built-in oven					
Yes	1 613 470 A	105 458 A	311 136 A	623 970 A	79 618 A
No	6 881 822 A	463 882 A	1 753 616 A	2 596 415 A	454 762 A
Not stated	4 397 086 A	371 956 A	1 220 742 A	1 568 396 A	295 448 A
Age of the built-in oven					
5 years or less	558 514 A	U	54 526 M	274 807 A	35 122 M
6 to 10 years	396 234 A	27 584 M	90 002 M	120 776 A	U
11 to 15 years	262 830 A	26 162 M	47 476 A	81 146 A	U
16 to 20 years	228 696 A	U	78 398 M	87 682 M	U
21 to 25 years	102 471 A	U	U	U	U
26 years or more	64 725 A	U	U	U	U
Not stated	4 397 086 A	371 956 A	1 220 742 A	1 568 396 A	295 448 A
Energy source of the built-in oven					
Electricity	1 386 792 A	94 207 A	282 222 A	530 853 A	63 281 A
Natural gas	78 546 M	— —	U	U	U
Electricity and natural gas	U	— —	— —	U	U
Oil	— —	— —	— —	— —	— —
Wood	— —	— —	— —	— —	— —
Propane	U	— —	U	— —	— —
Don't know	U	U	U	U	— —
Not stated	4 516 909 A	381 352 A	1 246 632 A	1 611 787 A	307 069 A
Use of the regular stove/range or built-in oven with a separate cooktop during an average week					
Three or more times a day	2 589 103 A	266 388 A	582 387 A	946 793 A	158 370 A
Two times a day	3 886 897 A	307 932 A	1 074 342 A	1 277 703 A	273 883 A
Once a day	3 631 334 A	212 010 A	863 962 A	1 506 759 A	210 712 A
A few times each week	1 913 360 A	107 444 A	447 945 A	797 829 A	117 709 A
Once a week	116 608 A	U	U	41 186 M	U
Less than once a week	180 004 A	U	U	82 277 M	U
Never	U	U	U	U	U
Don't know	92 562 M	U	U	U	U
Not stated	439 731 A	U	223 323 A	91 220 M	U
Households with a microwave oven					
Yes	12 041 295 A	910 651 A	2 973 568 A	4 517 831 A	801 763 A
No	684 141 A	20 010 M	224 019 M	243 183 M	U
Not stated	206 914 A	U	106 290 M	U	U
Age of the microwave oven					
5 years or less	5 868 913 A	418 716 A	1 261 249 A	2 278 550 A	369 834 A
6 to 10 years	2 922 325 A	198 824 A	772 040 A	1 141 835 A	177 985 A
11 to 15 years	1 308 840 A	97 543 A	359 486 A	433 220 A	89 356 A
16 to 20 years	788 444 A	74 984 A	251 876 A	257 984 A	62 032 M
21 to 25 years	328 033 A	39 548 M	96 641 A	117 605 A	35 464 M
26 years or more	90 376 A	U	U	U	U
Don't know	255 977 A	U	U	97 954 M	U
Not stated	685 302 A	40 564 M	275 902 A	206 618 A	53 895 M

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 Due to rounding the numbers may not add up and may differ slightly among tables. Source: 2007 Survey of Household Energy Use

		BY SIZE OF HOUSEHOLD					
Alberta	British Columbia	One member	Two members	Three members	Four or more members	Not stated	
178 594 A	314 694 A	245 694 A	557 281 A	281 495 A	473 637 A	U	
790 143 A	823 004 A	1 571 513 A	2 332 740 A	1 059 232 A	1 731 660 A	186 677 A	
345 433 A	595 112 A	1 359 317 A	1 529 966 A	564 796 A	710 578 A	232 429 M	
90 313 M	88 877 M	81 993 M	160 104 A	123 584 M	178 514 A	U	
U	96 969 M	65 299 M	118 123 A	55 465 M	130 229 M	U	
U	90 195 M	30 245 M	96 858 M	48 268 M	80 622 M	U	
U	U	U	110 762 A	33 716 M	56 825 M	U	
U	U	U	32 927 M	U	U	U	
U	U	U	38 507 M	U	U	U	
345 433 A	595 112 A	1 359 317 A	1 529 966 A	564 796 A	710 578 A	232 429 M	
153 198 A	263 032 A	186 094 A	497 098 A	239 275 A	413 352 A	U	
U	U	U	U	U	U	U	
U	U	U	U	— —	U	U	
— —	— —	— —	— —	— —	— —	— —	
— —	— —	— —	— —	— —	— —	— —	
U	U	U	U	— —	— —	— —	
— —	— —	U	— —	— —	U	U	
354 732 A	615 337 A	1 399 325 A	1 566 533 A	581 342 A	737 281 A	232 429 M	
231 294 A	403 872 A	394 156 A	987 317 A	361 480 A	708 734 A	137 416 M	
387 620 A	565 418 A	716 757 A	1 375 796 A	664 377 A	1 026 765 A	103 202 M	
381 745 A	456 145 A	762 920 A	1 245 442 A	632 386 A	892 314 A	98 274 M	
232 141 A	210 293 A	919 894 A	623 404 A	155 198 A	158 836 A	U	
U	U	73 295 M	U	U	U	U	
U	U	109 027 A	U	U	U	U	
U	U	U	U	— —	U	U	
U	U	U	U	U	U	U	
U	40 708 M	147 415 M	104 863 A	54 545 M	97 264 M	U	
1 280 149 A	1 557 333 A	2 816 313 A	4 149 915 A	1 843 230 A	2 840 982 A	390 856 A	
U	152 647 M	282 242 A	231 379 M	U	57 317 M	U	
U	U	100 585 M	46 452 M	U	U	U	
761 125 A	779 440 A	1 233 843 A	1 882 251 A	966 668 A	1 604 274 A	181 876 A	
264 396 A	367 246 A	643 789 A	1 109 834 A	441 432 A	659 731 A	67 539 M	
134 817 A	194 419 A	320 457 A	455 286 A	236 589 A	223 627 A	72 882 M	
59 318 M	82 250 M	210 924 A	298 206 A	76 996 A	166 916 A	U	
U	U	100 703 M	120 011 A	38 369 M	57 897 M	U	
U	U	U	36 048 M	U	U	U	
U	U	84 628 M	63 361 M	U	U	U	
U	85 026 M	294 168 A	231 369 A	49 352 M	91 903 M	U	

### Table 6.3 - Cooking appliances (3/3)

[illegible]

[illegible]

# Table 6.4 - Dishwasher

NUMBER OF HOUSEHOLDS	BY REGION				
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan
<b>Households with a dishwasher</b>					
Yes	7 944 343 A	505 509 A	1 819 310 A	2 876 418 A	507 222 A
No	4 303 562 A	392 175 A	1 187 875 A	1 716 432 A	290 251 A
Not stated	684 445 A	44 054 A	296 692 A	201 588 A	41 883 M
<b>Size of the dishwasher</b>					
Compact (mini – exterior width less than 56 cm/22 in)	304 428 A	U	63 978 M	139 569 M	U
Standard (full size – exterior width greater than or equal to 56 cm/22 in)	7 170 152 A	457 841 A	1 688 469 A	2 590 640 A	445 176 A
Don't know	146 772 M	U	U	U	U
Not stated	1 007 437 A	74 063 M	335 801 A	296 542 A	76 131 M
<b>Age of the dishwasher</b>					
5 years or less	3 571 343 A	206 958 A	816 304 A	1 314 434 A	203 859 A
6 to 10 years	2 117 320 A	130 402 A	480 559 A	805 125 A	131 499 A
11 to 15 years	936 799 A	60 161 A	231 394 A	327 259 A	55 116 A
16 to 20 years	502 111 A	26 444 M	137 024 A	176 564 A	32 517 M
21 to 25 years	205 877 A	U	55 908 M	66 856 M	U
26 years or more	71 633 A	U	U	U	U
Don't know	358 742 A	U	U	91 088 M	38 364 M
Not stated	864 963 A	53 779 A	345 976 A	286 612 A	56 930 A
<b>Households with an ENERGY STAR® dishwasher</b>					
Yes	3 365 925 A	219 541 A	748 267 A	1 340 884 A	183 621 A
No	2 259 724 A	119 100 A	549 810 A	794 680 A	151 708 A
Don't know	1 360 228 A	118 108 A	229 608 A	448 952 A	104 298 A
Not stated	1 642 911 A	92 814 A	588 317 A	493 489 A	109 478 A
<b>Usual dishwasher dish drying method used</b>					
Heat on (with the door closed)	4 053 629 A	264 454 A	937 144 A	1 458 083 A	244 935 A
Heat off (with the door closed)	2 431 841 A	131 583 A	540 810 A	958 120 A	164 012 A
Door open (dishes dry naturally)	988 350 A	83 046 A	278 163 A	303 462 A	58 905 M
Don't know	113 149 A	U	U	U	U
Not stated	1 041 820 A	66 813 A	343 726 A	309 092 A	75 653 M
<b>Loads of dishes washed by dishwasher during an average week</b>					
One or less	1 492 546 A	74 447 A	376 281 A	601 983 A	60 757 A
Two to three	2 840 537 A	190 580 A	807 148 A	1 053 094 A	171 579 A
Four to seven	2 648 045 A	173 316 A	498 429 A	907 048 A	181 085 A
More than seven	376 394 A	24 788 M	48 568 M	146 925 M	32 701 M
Don't know	171 571 A	U	37 438 M	39 663 A	U
Not stated	1 099 695 A	77 097 A	348 139 A	329 294 A	86 099 A
<b>Frequency a household member ensures that dishwasher is full before it is turned on</b>					
Always	6 364 206 A	399 642 A	1 534 061 A	2 310 832 A	386 290 A
Often	502 637 A	29 631 M	94 835 A	160 998 A	27 839 M
Sometimes	144 757 A	U	U	U	U
Rarely or never	156 789 M	U	U	56 672 M	U
Do not have a dishwasher in the dwelling	4 303 562 A	392 175 A	1 187 875 A	1 716 432 A	290 251 A
Don't know	60 878 M	U	U	U	U
Refusal	1 399 522 A	87 496 A	420 369 A	483 625 A	100 796 A

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		BY SIZE OF HOUSEHOLD					
Alberta	British Columbia	One member	Two members	Three members	Four or more members	Not stated	
1 041 885 A	1 193 999 A	1 266 895 A	2 857 173 A	1 331 947 A	2 234 889 A	253 440 A	
242 668 A	474 160 A	1 647 491 A	1 355 508 A	486 848 A	614 816 A	198 899 M	
U	68 761 M	284 754 A	215 065 M	87 675 M	74 820 M	U	
U	36 738 M	79 613 M	129 577 M	U	U	U	
934 966 A	1 053 060 A	1 038 318 A	2 608 011 A	1 230 802 A	2 075 672 A	217 348 A	
U	U	U	U	U	U	U	
76 672 M	148 229 A	373 481 A	312 555 A	131 555 A	149 429 M	U	
571 974 A	457 815 A	448 956 A	1 252 281 A	656 296 A	1 090 168 A	123 643 M	
243 414 A	326 321 A	293 748 A	769 193 A	347 769 A	641 855 A	64 755 M	
78 983 M	183 886 A	133 697 A	347 919 A	169 067 A	254 334 A	U	
44 961 M	84 600 M	154 504 A	187 269 A	69 866 M	87 228 M	U	
U	U	71 183 M	82 004 A	U	U	U	
U	U	U	30 004 M	U	U	U	
U	88 266 M	90 633 M	110 884 M	56 962 M	94 413 M	U	
U	74 991 M	338 180 A	292 683 A	94 673 M	108 321 M	U	
448 128 A	425 483 A	371 308 A	1 223 666 A	560 932 A	1 103 532 A	106 487 M	
258 150 A	386 277 A	397 250 A	808 873 A	402 473 A	575 742 A	U	
226 064 A	233 198 A	264 502 A	473 288 A	211 944 A	366 504 A	U	
141 010 A	217 803 A	518 588 A	566 411 A	244 272 A	263 931 A	49 709 M	
562 405 A	586 608 A	594 923 A	1 438 608 A	684 585 A	1 212 194 A	123 318 M	
290 256 A	347 060 A	365 200 A	868 881 A	415 305 A	702 926 A	79 528 M	
133 309 A	131 465 A	189 815 A	410 995 A	159 156 M	198 370 A	U	
— —	U	U	U	U	U	U	
87 381 M	159 155 A	377 613 A	330 021 A	143 529 A	153 573 M	U	
154 744 A	224 335 A	492 812 A	636 137 A	161 764 A	145 415 A	U	
300 062 A	318 074 A	510 233 A	1 177 879 A	482 939 A	582 212 A	87 274 M	
432 490 A	455 678 A	96 459 M	797 276 A	539 359 A	1 135 417 A	79 534 M	
64 495 M	58 915 M	U	58 637 M	62 052 M	245 982 A	U	
U	U	54 978 M	43 232 A	U	U	U	
96 528 M	162 539 A	391 691 A	359 076 A	146 517 A	159 941 M	U	
815 299 A	918 083 A	952 368 A	2 391 514 A	1 061 658 A	1 930 375 A	U	
95 849 M	93 485 A	71 700 M	173 291 A	120 150 A	136 935 A	U	
U	U	U	52 736 M	U	U	— —	
U	U	57 549 M	34 516 M	U	U	U	
242 668 A	474 160 A	1 647 491 A	1 355 508 A	486 848 A	614 816 A	198 899 M	
U	U	U	U	U	U	— —	
111 017 M	196 220 A	410 505 A	405 497 A	169 678 A	168 614 A	245 227 A	

# Table 6.5 - Clothes washer (1/2)

	NUMBER OF HOUSEHOLDS		BY REGION			
	Canada		Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan
<b>Households with a clothes washer</b>						
Yes	11 414 615 A		885 855 A	2 986 653 A	4 086 508 A	739 972 A
No	1 287 211 A		40 883 M	246 078 M	625 143 A	79 560 A
Not stated	230 524 A		U	71 146 M	82 787 M	U
<b>Type of clothes washer</b>						
Standard top-loading	8 122 433 A		741 760 A	2 190 164 A	2 904 395 A	574 846 A
Standard front-loading	2 043 261 A		73 758 A	534 849 A	703 485 A	94 802 A
Washer/dryer combination with top-loading washer	451 048 A		17 703 M	U	216 760 M	U
Washer/dryer combination with front-loading washer	265 823 A		U	70 486 M	83 775 M	U
Other	72 060 M		U	U	U	U
Don't know	U		U	U	U	U
Not stated	633 403 A		45 157 M	186 534 A	228 088 A	53 697 M
<b>Size of the clothes washer</b>						
Mini (compact – less than 45 litres/10 gallons)	501 622 A		31 022 M	120 720 A	214 642 A	U
Standard (full size – greater than or equal to 45 litres/10 gallons)	10 141 950 A		811 437 A	2 640 608 A	3 592 143 A	642 864 A
Don't know	438 669 A		U	141 182 M	151 621 A	U
Not stated	562 898 A		34 190 M	155 289 M	210 889 A	47 409 M
<b>Age of the clothes washer</b>						
5 years or less	4 689 260 A		332 842 A	1 224 028 A	1 673 526 A	282 320 A
6 to 10 years	3 136 532 A		245 296 A	825 788 A	1 202 673 A	191 807 A
11 to 15 years	1 547 284 A		126 324 A	383 414 A	545 890 A	91 050 A
16 to 20 years	704 323 A		47 442 A	230 337 M	215 766 A	53 357 A
21 to 25 years	262 145 A		U	72 409 M	69 291 M	29 879 M
26 years or more	147 785 A		U	37 203 M	37 650 M	U
Don't know	516 858 A		49 578 M	U	187 375 A	51 672 M
Not stated	640 952 A		44 319 A	232 680 A	237 124 A	47 668 M
<b>Households with an ENERGY STAR® clothes washer</b>						
Yes	4 565 242 A		322 802 A	1 131 790 A	1 735 598 A	273 954 A
No	3 149 964 A		232 574 A	937 205 A	1 104 471 A	213 079 A
Don't know	2 035 179 A		190 178 A	403 185 A	681 590 A	155 058 A
Not stated	1 894 754 A		155 301 A	585 620 A	647 635 A	117 705 A
<b>Water temperature used most for washing clothes</b>						
Hot	465 974 A		41 104 M	58 500 M	165 517 A	33 174 M
Cold	5 497 525 A		503 733 A	2 025 557 A	1 723 642 A	253 528 A
Warm	5 073 881 A		314 145 A	843 529 A	2 020 219 A	416 469 A
Don't know	73 456 M		U	U	U	U
Not stated	534 302 A		38 585 M	126 954 M	205 978 A	52 785 M
<b>Water temperature used most for rinsing clothes</b>						
Hot	120 044 M		U	U	U	U
Cold	9 068 671 A		742 047 A	2 612 893 A	3 128 173 A	556 064 A
Warm	1 784 275 A		108 496 A	308 951 A	723 440 A	138 447 A
Don't know	158 380 M		U	U	79 428 M	U
Not stated	513 768 A		39 428 M	103 101 M	206 459 A	44 169 M

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 Due to rounding the numbers may not add up and may differ slightly among tables. Source: 2007 Survey of Household Energy Use



				BY SIZE OF HOUSEHOLD									
Alberta		British Columbia		One member		Two members		Three members		Four or more members		Not stated	
1 231 436 A		1 484 192 A		2 352 124 A		4 077 684 A		1 816 207 A		2 790 566 A		378 034 A	
U		221 289 M		751 963 A		275 424 A		U		U		U	
U		U		95 052 M		74 638 M		U		U		U	
746 697 A		964 571 A		1 676 751 A		2 973 449 A		1 315 976 A		1 851 859 A		304 398 A	
343 904 A		292 463 A		228 798 A		709 153 A		362 654 A		713 665 A		U	
U		112 494 M		159 564 M		163 872 A		49 428 M		U		U	
U		51 706 M		66 948 M		79 655 M		53 375 M		62 727 M		U	
U		U		U		U		U		U		U	
—		U		U		U		U		U		U	
U		84 726 M		273 578 A		200 904 A		47 973 M		86 801 M		U	
U		65 980 M		163 524 A		167 612 A		81 104 M		74 287 M		U	
1 113 876 A		1 341 023 A		1 851 155 A		3 726 356 A		1 669 394 A		2 564 269 A		330 776 A	
U		U		174 234 A		95 105 M		51 275 M		92 338 M		U	
U		82 811 M		258 264 A		163 249 A		U		80 649 M		U	
590 739 A		585 805 A		685 911 A		1 614 733 A		913 031 A		1 352 446 A		123 138 M	
313 851 A		357 117 A		607 630 A		1 160 968 A		431 934 A		810 327 A		125 671 M	
162 916 A		237 689 A		298 129 A		610 315 A		234 685 A		329 388 A		74 766 M	
65 961 M		91 460 M		220 181 A		269 868 M		81 270 A		118 813 A		U	
U		30 299 M		105 134 M		79 502 A		U		37 440 M		U	
U		29 867 M		50 044 M		68 708 M		U		U		U	
U		122 832 A		162 778 A		160 868 M		82 438 M		94 129 M		U	
U		60 562 M		317 368 A		187 359 A		56 855 M		57 623 M		U	
532 466 A		568 632 A		549 180 A		1 697 932 A		809 613 A		1 385 092 A		123 424 M	
273 865 A		388 770 A		742 240 A		1 109 716 A		499 020 A		680 489 A		118 499 M	
297 185 A		307 983 A		511 398 A		701 979 A		289 004 A		453 562 A		79 235 M	
138 248 A		250 245 A		644 358 A		642 694 A		241 464 A		292 399 A		73 839 M	
111 186 M		56 494 M		120 258 A		141 163 A		57 195 M		102 173 M		U	
400 527 A		590 538 A		999 979 A		1 998 139 A		973 589 A		1 399 161 A		126 657 M	
697 015 A		782 504 A		1 075 876 A		1 853 010 A		752 464 A		1 198 395 A		194 136 A	
U		U		U		U		U		U		U	
U		79 765 M		234 724 A		149 037 A		U		85 835 M		U	
U		U		U		33 644 M		U		U		U	
902 201 A		1 127 293 A		1 690 376 A		3 316 220 A		1 511 892 A		2 271 151 A		279 032 A	
243 617 A		261 325 A		470 072 A		609 841 A		250 752 A		380 879 A		72 731 M	
U		U		U		44 296 M		U		U		U	
U		83 400 M		231 422 A		148 322 M		U		77 463 M		U	

### Table 6.5 - Clothes washer (2/2)

[illegible]

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### Table 6.6 - Clothes dryer (1/2)

[illegible]

[illegible]

### Table 6.6 - Clothes dryer (2/2)

[illegible]

[illegible]

# Table 6.7 - Appliance purchasing decisions

NUMBER OF HOUSEHOLDS	BY REGION					
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan	
<b>Households that purchased major appliances in the past 5 years</b>						
Yes	7 192 893 A	568 532 A	2 011 239 A	2 612 196 A	435 587 A	
No	5 250 468 A	345 174 A	1 176 591 A	2 017 153 A	366 587 A	
Don't know	U	U	U	U	U	
Not stated	434 204 A	U	109 651 M	146 411 M	U	
<b>Two most important factors that influenced the purchase (possible choices – energy and water consumption, reliability, price, features, other)</b>						
<b>Factor – energy and water consumption</b>						
Yes	4 689 492 A	334 302 A	1 260 665 A	1 853 942 A	269 963 A	
No	2 466 683 A	229 461 A	737 166 A	752 213 A	163 121 A	
Don't know	35 744 M	U	U	U	U	
Not stated	489 964 A	U	116 416 M	165 089 M	U	
<b>Two most important factors that influenced the purchase (possible choices – energy and water consumption, reliability, price, features, other)</b>						
<b>Factor – reliability</b>						
Yes	2 913 967 A	175 881 A	819 934 A	1 042 269 A	161 500 A	
No	4 242 207 A	387 882 A	1 177 897 A	1 563 887 A	271 584 A	
Don't know	35 744 M	U	U	U	U	
Not stated	489 964 A	U	116 416 M	165 089 M	U	
<b>Two most important factors that influenced the purchase (possible choices – energy and water consumption, reliability, price, features, other)</b>						
<b>Factor – price</b>						
Yes	3 811 056 A	364 806 A	1 138 060 A	1 304 426 A	245 361 A	
No	3 345 118 A	198 956 A	859 771 A	1 301 729 A	187 723 A	
Don't know	35 744 M	U	U	U	U	
Not stated	489 964 A	U	116 416 M	165 089 M	U	
<b>Two most important factors that influenced the purchase (possible choices – energy and water consumption, reliability, price, features, other)</b>						
<b>Factor – features</b>						
Yes	1 950 532 A	162 322 A	512 782 A	682 173 A	117 238 A	
No	5 205 643 A	401 440 A	1 485 050 A	1 923 983 A	315 846 A	
Don't know	35 744 M	U	U	U	U	
Not stated	489 964 A	U	116 416 M	165 089 M	U	
<b>Two most important factors that influenced the purchase (possible choices – energy and water consumption, reliability, price, features, other)</b>						
<b>Factor – other</b>						
Yes	189 946 A	29 821 M	U	56 049 M	U	
No	6 966 229 A	533 941 A	1 952 227 A	2 550 107 A	417 215 A	
Don't know	35 744 M	U	U	U	U	
Not stated	489 964 A	U	116 416 M	165 089 M	U	

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				BY SIZE OF HOUSEHOLD									
Alberta		British Columbia		One member		Two members		Three members		Four or more members		Not stated	
728 064	A	837 275	A	1 270 144	A	2 567 368	A	1 258 033	A	2 072 411	A	24 936	M
539 627	A	805 336	A	1 903 662	A	1 841 021	A	641 296	A	829 089	A		U
	U		U		U		U		U		U	—	—
	U		U		U		U		U		U	414 134	A
485 194	A	485 426	A	792 824	A	1 689 239	A	786 455	A	1 404 666	A		U
236 580	A	348 141	A	463 788	A	867 725	A	462 209	A	664 331	A		U
	U		U		U		U		U		U	—	—
	U		U		U		U		U		U	414 134	A
328 073	A	386 309	A	528 533	A	995 672	A	521 813	A	855 268	A		U
393 700	A	447 258	A	728 079	A	1 561 293	A	726 852	A	1 213 729	A		U
	U		U		U		U		U		U	—	—
	U		U		U		U		U		U	414 134	A
343 180	A	415 222	A	657 117	A	1 359 774	A	692 337	A	1 089 751	A		U
378 593	A	418 346	A	599 495	A	1 197 191	A	556 328	A	979 246	A		U
	U		U		U		U		U		U	—	—
	U		U		U		U		U		U	414 134	A
214 447	A	261 570	A	311 378	A	704 620	A	352 937	A	574 833	A		U
507 327	A	571 997	A	945 234	A	1 852 345	A	895 727	A	1 494 165	A		U
	U		U		U		U		U		U	—	—
	U		U		U		U		U		U	414 134	A
	U		U	40 666	M	81 239	M		U		U		U
698 345	A	814 393	A	1 215 946	A	2 475 726	A	1 215 839	A	2 035 263	A		U
	U		U		U		U		U		U	—	—
	U		U		U		U		U		U	414 134	A



## Section 7



# Home electronics



# Table 7.1 - Television (1/2)

NUMBER OF HOUSEHOLDS			BY REGION										
	Canada			Atlantic		Quebec		Ontario		Manitoba/ Saskatchewan		Alberta	
Households with a television													
Yes	12 690 525	A		926 765	A	3 245 158	A	4 739 007	A	807 032	A	1 285 815	A
No	80 387	M			U		U		U		U		U
Not stated	161 438	A			U	40 579	M		U		U		U
Number of televisions													
Zero	80 387	M			U		U		U		U		U
One	4 494 821	A		286 949	A	1 264 777	A	1 647 262	A	277 671	A	408 048	A
Two	4 384 180	A		325 573	A	1 150 715	A	1 667 771	A	279 475	A	428 324	A
Three	2 181 453	A		181 046	A	481 341	A	853 071	A	117 971	A	263 051	A
Four or more	1 157 714	A		108 585	A	192 855	A	437 186	A	96 162	A	166 123	A
Don't know		U		—	—		U		U	—	—		—
Not stated	622 998	A		32 634	M	188 074	A	175 022	A	57 708	M		U
Households with a regular (tube) television													
Yes	8 957 598	A		685 116	A	2 362 138	A	3 325 243	A	606 918	A	790 809	A
No	2 842 878	A		157 152	A	633 006	A	1 139 792	A	124 198	A	400 035	A
Not stated	1 051 487	A		92 519	A	290 593	A	316 624	A	97 872	A	121 193	M
Households with a regular (tube) high definition television													
Yes	1 431 790	A		97 208	A	338 409	A	513 440	A	65 426	A	235 259	A
No	10 368 687	A		745 060	A	2 656 736	A	3 951 596	A	665 689	A	955 585	A
Not stated	1 051 487	A		92 519	A	290 593	A	316 624	A	97 872	A	121 193	M
Households with a projection television													
Yes	637 944	A		37 835	A	93 849	A	291 868	A	38 723	M	85 470	M
No	11 162 533	A		804 434	A	2 901 296	A	4 173 168	A	692 392	A	1 105 374	A
Not stated	1 051 487	A		92 519	A	290 593	A	316 624	A	97 872	A	121 193	M
Households with a direct light projection (DLP) television													
Yes	219 060	A			U		U	92 736	A		U		U
No	11 581 416	A		834 637	A	2 967 665	A	4 372 300	A	719 821	A	1 142 766	A
Not stated	1 051 487	A		92 519	A	290 593	A	316 624	A	97 872	A	121 193	M
Household with a liquid crystal display (LCD) television													
Yes	1 888 923	A		97 109	A	352 937	A	822 754	A	74 838	A	263 714	A
No	9 911 553	A		745 159	A	2 642 207	A	3 642 282	A	656 278	A	927 130	A
Not stated	1 051 487	A		92 519	A	290 593	A	316 624	A	97 872	A	121 193	M
Households with a plasma television													
Yes	743 779	A		33 840	M	134 304	A	305 027	A	41 846	M	139 222	M
No	11 056 697	A		808 428	A	2 860 841	A	4 160 009	A	689 269	A	1 051 622	A
Not stated	1 051 487	A		92 519	A	290 593	A	316 624	A	97 872	A	121 193	M

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British Columbia	BY OCCUPANT DEMOGRAPHICS								
	Households with only 18 to 24 year-old members	Households with only 25 to 44 year-old members	Households with only 45 to 64 year-old members	Households with only 65+ year-old members	Households with adults and children 0 to 12 years old only	Households with adults and teens 13 to 19 years old only	Households with adults and members 0 to 12 and 13 to 19 years old	Other compositions	Not stated
1 686 749 A	117 457 M	1 317 433 A	2 710 979 A	2 119 840 A	2 253 051 A	1 321 238 A	713 357 A	1 683 705 A	453 465 A
U	U	U	U	U	U	U	U	U	U
U	— —	U	U	44 956 M	U	U	U	U	U
U	U	U	U	U	U	U	U	U	U
610 115 A	U	722 797 A	1 210 163 A	1 022 632 A	540 702 A	214 667 A	99 451 M	452 633 A	165 301 A
532 321 A	U	444 520 A	947 807 A	644 628 A	824 224 A	470 586 A	243 042 A	627 534 A	146 799 M
284 974 A	U	104 878 M	298 984 A	204 872 A	565 469 A	357 827 A	203 507 A	384 489 A	U
156 803 A	U	U	160 696 A	56 055 M	294 563 A	254 977 A	154 122 A	170 698 A	U
U	— —	— —	U	U	U	— —	— —	U	U
123 069 M	— —	U	117 426 M	234 667 A	U	U	U	62 224 M	U
1 187 375 A	59 130 M	985 448 A	1 894 540 A	1 487 201 A	1 589 761 A	953 966 A	515 075 A	1 162 946 A	309 533 A
388 693 A	U	291 090 A	637 528 A	364 151 A	554 878 A	310 886 A	173 063 A	381 719 A	95 301 M
132 686 A	U	U	207 101 A	313 444 A	141 574 M	66 596 M	U	153 885 A	56 635 M
182 048 A	U	92 805 M	356 660 A	212 320 A	322 116 A	147 691 A	71 728 M	183 034 A	U
1 394 021 A	89 200 M	1 183 733 A	2 175 408 A	1 639 032 A	1 822 522 A	1 117 160 A	616 410 A	1 361 630 A	363 592 A
132 686 A	U	U	207 101 A	313 444 A	141 574 M	66 596 M	U	153 885 A	56 635 M
90 199 A	U	49 291 M	112 664 A	23 167 M	147 887 A	96 012 A	69 972 M	101 691 A	U
1 485 869 A	89 710 M	1 227 247 A	2 419 404 A	1 828 184 A	1 996 751 A	1 168 840 A	618 165 A	1 442 974 A	371 257 A
132 686 A	U	U	207 101 A	313 444 A	141 574 M	66 596 M	U	153 885 A	56 635 M
U	— —	U	50 541 M	U	U	U	U	51 066 M	U
1 544 227 A	93 392 M	1 250 325 A	2 481 527 A	1 841 140 A	2 112 406 A	1 235 499 A	671 256 A	1 493 598 A	402 272 A
132 686 A	U	U	207 101 A	313 444 A	141 574 M	66 596 M	U	153 885 A	56 635 M
277 570 A	U	210 081 A	444 214 A	165 992 A	346 181 A	270 050 A	141 818 M	230 715 A	U
1 298 498 A	63 561 M	1 066 457 A	2 087 854 A	1 685 360 A	1 798 458 A	994 802 A	546 319 A	1 313 950 A	354 793 A
132 686 A	U	U	207 101 A	313 444 A	141 574 M	66 596 M	U	153 885 A	56 635 M
89 540 A	U	67 130 M	120 011 A	92 895 M	201 349 A	94 626 M	51 958 M	89 137 A	U
1 486 528 A	91 556 M	1 209 408 A	2 412 057 A	1 758 457 A	1 943 290 A	1 170 226 A	636 180 A	1 455 527 A	379 996 A
132 686 A	U	U	207 101 A	313 444 A	141 574 M	66 596 M	U	153 885 A	56 635 M

### Table 7.1 - Television (2/2)

[illegible]

## BY OCCUPANT DEMOGRAPHICS

# Table 7.2 - Television receiver box (TV set-top box) (1/2)

NUMBER OF HOUSEHOLDS	BY REGION					
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan	Alberta
<b>Households with a television analog/digital receiver box (set-top box)</b>						
Yes	6 800 517 A	476 809 A	1 688 691 A	2 744 529 A	469 069 A	622 291 A
No	5 172 120 A	384 015 A	1 360 512 A	1 759 042 A	273 856 A	593 416 A
Not stated	879 326 A	73 963 A	236 535 A	278 088 A	86 062 M	96 329 M
<b>Number of television analog/digital receiver boxes</b>						
Zero	5 172 120 A	384 015 A	1 360 512 A	1 759 042 A	273 856 A	593 416 A
One	3 481 109 A	224 580 A	944 605 A	1 381 434 A	230 349 A	318 489 A
Two	1 571 061 A	104 298 A	352 258 A	689 330 A	123 857 A	146 133 M
Three	362 231 A	28 785 M	70 973 M	158 898 A	U	U
Four or more	128 228 A	U	U	56 278 M	U	U
Don't know	218 386 A	U	69 411 M	65 201 M	U	U
Not stated	1 918 828 A	163 665 A	462 675 A	671 477 A	160 484 A	182 630 A
<b>Households with an analog television receiver box</b>						
Yes	2 195 869 A	169 584 A	524 866 A	903 296 A	163 457 A	164 816 A
No	4 095 320 A	265 897 A	997 392 A	1 685 033 A	268 746 A	420 499 A
Not stated	1 388 654 A	115 292 A	402 967 A	434 290 A	122 928 A	133 306 A
<b>Households with a digital television receiver box</b>						
Yes	3 592 752 A	244 601 A	902 124 A	1 491 136 A	242 800 A	353 612 A
No	2 698 437 A	190 880 A	620 135 A	1 097 192 A	189 403 A	231 703 A
Not stated	1 388 654 A	115 292 A	402 967 A	434 290 A	122 928 A	133 306 A
<b>Households with a personal video recorder (PVR) television receiver box</b>						
Yes	335 624 A	U	52 078 M	152 521 A	U	U
No	5 955 565 A	419 797 A	1 470 181 A	2 435 807 A	400 404 A	552 865 A
Not stated	1 388 654 A	115 292 A	402 967 A	434 290 A	122 928 A	133 306 A
<b>Households with a high definition (HD) television receiver box</b>						
Yes	941 213 A	45 884 M	191 319 A	433 188 A	43 115 M	108 474 M
No	5 349 976 A	389 596 A	1 330 940 A	2 155 140 A	389 088 A	476 841 A
Not stated	1 388 654 A	115 292 A	402 967 A	434 290 A	122 928 A	133 306 A
<b>Households with a high definition personal video recorder (HD PVR) television receiver box</b>						
Yes	371 479 A	U	53 632 M	151 901 A	U	59 844 M
No	5 919 710 A	421 297 A	1 468 627 A	2 436 428 A	414 447 A	525 471 A
Not stated	1 388 654 A	115 292 A	402 967 A	434 290 A	122 928 A	133 306 A

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: 2007 Survey of Household Energy Use



British Columbia	BY OCCUPANT DEMOGRAPHICS								
	Households with only 18 to 24 year-old members	Households with only 25 to 44 year-old members	Households with only 45 to 64 year-old members	Households with only 65+ year-old members	Households with adults and children 0 to 12 years old only	Households with adults and teens 13 to 19 years old only	Households with adults and members 0 to 12 and 13 to 19 years old	Other compositions	Not stated
799 126 A	U	623 881 A	1 472 659 A	822 501 A	1 422 054 A	781 162 A	406 597 A	983 343 A	251 392 M
801 279 A	U	628 227 A	1 109 026 A	1 094 870 A	742 605 A	499 313 A	277 725 A	597 705 A	161 652 A
108 348 A	U	73 338 M	157 483 A	247 425 A	121 555 M	50 973 M	43 093 M	117 501 A	U
801 279 A	U	628 227 A	1 109 026 A	1 094 870 A	742 605 A	499 313 A	277 725 A	597 705 A	161 652 A
381 653 A	U	449 155 A	805 446 A	340 734 A	782 939 A	354 947 A	195 335 A	423 742 A	99 426 M
155 186 A	U	94 042 M	349 199 A	100 185 A	384 497 A	195 000 A	117 468 M	271 571 A	U
U	U	U	57 080 M	U	77 222 M	73 589 M	U	88 497 M	U
U	—	U	U	U	U	U	U	U	U
U	U	U	U	38 674 M	U	U	U	U	U
277 897 A	U	90 269 M	363 256 A	575 318 A	246 943 A	135 866 A	79 483 M	273 778 A	134 383 M
269 850 A	U	153 663 M	455 618 A	333 409 A	423 623 A	224 733 A	128 590 M	329 146 A	134 392 M
457 754 A	U	433 852 A	904 986 A	365 632 A	920 623 A	501 276 A	260 216 A	583 856 A	102 210 M
179 871 A	U	109 704 M	269 539 A	370 885 A	199 361 A	106 127 A	60 884 M	187 842 A	U
358 480 A	U	332 047 A	776 314 A	318 546 A	828 854 A	439 073 A	260 622 A	550 124 A	67 347 M
369 124 A	U	255 469 A	584 290 A	380 495 A	515 393 A	286 935 A	128 184 M	362 879 A	169 255 M
179 871 A	U	109 704 M	269 539 A	370 885 A	199 361 A	106 127 A	60 884 M	187 842 A	U
51 092 M	U	62 233 M	57 037 M	29 154 M	82 618 A	U	U	42 221 M	U
676 512 A	U	525 283 A	1 303 567 A	669 887 A	1 261 629 A	690 239 A	368 367 A	870 782 A	233 291 M
179 871 A	U	109 704 M	269 539 A	370 885 A	199 361 A	106 127 A	60 884 M	187 842 A	U
119 233 A	U	111 178 M	233 505 A	77 321 M	185 973 A	111 296 M	63 335 M	122 771 A	U
608 371 A	U	476 337 A	1 127 099 A	621 720 A	1 158 274 A	614 712 A	325 471 A	790 231 A	201 690 M
179 871 A	U	109 704 M	269 539 A	370 885 A	199 361 A	106 127 A	60 884 M	187 842 A	U
74 163 M	U	69 384 M	81 754 A	U	77 068 M	51 114 M	U	36 485 M	U
653 441 A	U	518 132 A	1 278 850 A	668 305 A	1 267 179 A	674 894 A	375 818 A	876 517 A	224 959 M
179 871 A	U	109 704 M	269 539 A	370 885 A	199 361 A	106 127 A	60 884 M	187 842 A	U

### Table 7.2 - Television receiver box (TV set-top box) (2/2)

[illegible]

[illegible]

### Table 7.3 - Home theatre system

[illegible]

## BY OCCUPANT DEMOGRAPHICS

### Table 7.4 - Video game console

[illegible]

## BY OCCUPANT DEMOGRAPHICS

### Table 7.5 - DVD player

[illegible]



British Columbia	BY OCCUPANT DEMOGRAPHICS								
	Households with only 18 to 24 year-old members	Households with only 25 to 44 year-old members	Households with only 45 to 64 year-old members	Households with only 65+ year-old members	Households with adults and children 0 to 12 years old only	Households with adults and teens 13 to 19 years old only	Households with adults and members 0 to 12 and 13 to 19 years old	Other compositions	Not stated
1 320 432 A	68 483 M	1 138 063 A	2 052 564 A	998 605 A	2 063 851 A	1 212 431 A	635 853 A	1 360 747 A	281 126 A
228 650 A	U	151 809 A	412 419 A	556 115 A	162 207 M	79 266 M	U	182 323 A	77 998 M
U	— —	U	U	U	U	— —	U	U	U
179 966 M	— —	U	273 757 A	611 264 A	73 031 M	U	U	159 122 A	U
228 650 A	U	151 809 A	412 419 A	556 115 A	162 207 M	79 266 M	U	182 323 A	77 998 M
869 747 A	57 358 M	877 818 A	1 675 812 A	895 496 A	1 255 466 A	709 296 A	371 057 A	909 571 A	221 172 A
382 508 A	U	232 893 A	323 694 A	90 057 M	624 781 A	385 140 A	168 768 A	355 491 A	U
55 278 M	U	U	34 701 M	U	143 683 A	92 821 A	60 589 M	85 755 A	U
U	U	— —	U	U	U	U	U	U	U
U	— —	U	U	U	U	— —	U	U	U
179 966 M	— —	U	273 757 A	611 264 A	73 031 M	U	U	159 122 A	U
1 075 380 A	68 483 M	944 634 A	1 688 387 A	758 498 A	1 680 820 A	1 044 973 A	542 726 A	1 088 331 A	198 829 A
185 566 A	— —	137 261 M	269 138 A	122 179 A	308 877 A	137 375 A	87 319 M	208 107 A	U
U	— —	U	U	U	U	U	— —	U	U
U	— —	U	U	U	U	U	U	U	U
218 685 M	— —	U	341 118 A	712 425 A	124 621 M	69 733 M	U	198 833 A	139 901 M
314 266 A	U	198 324 A	526 711 A	200 506 A	528 161 A	296 360 A	135 797 A	348 574 A	U
327 411 A	U	377 323 A	558 170 A	184 094 A	673 749 A	300 936 A	214 531 A	375 369 A	102 791 M
495 807 A	U	434 332 A	685 298 A	344 801 A	719 623 A	443 654 A	214 992 A	431 942 A	97 013 M
370 787 A	U	177 952 M	563 672 A	884 201 A	220 385 A	216 988 A	109 500 M	364 533 A	151 725 M
983 642 A	U	844 272 A	1 587 622 A	707 770 A	1 408 653 A	917 412 A	453 790 A	986 722 A	209 866 A
171 255 A	U	147 294 M	241 716 A	55 205 M	414 573 A	168 901 A	120 031 A	180 388 A	U
U	U	U	35 779 M	U	127 058 M	U	U	53 503 M	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
272 012 A	— —	U	423 018 A	804 996 A	129 370 M	97 706 M	U	250 752 A	140 764 M

### Table 7.6 - Video cassette recorder (VCR)

[illegible]

[illegible]

# Table 7.7 - Stereo (1/2)

NUMBER OF HOUSEHOLDS		BY REGION					
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan	Alberta	
<b>Households with a component stereo</b>							
Yes	6 833 115 A	453 221 A	1 851 625 A	2 533 672 A	371 322 A	691 618 A	
No	4 019 393 A	299 449 A	958 623 A	1 495 517 A	284 690 A	481 512 A	
Don't know	70 541 M	U	U	U	U	U	
Not stated	2 009 300 A	182 388 A	467 092 A	742 768 A	182 585 A	140 946 A	
<b>Number of component stereos</b>							
Zero	4 019 393 A	299 449 A	958 623 A	1 495 517 A	284 690 A	481 512 A	
One	5 987 301 A	402 957 A	1 631 820 A	2 245 011 A	312 917 A	588 414 A	
Two	714 641 A	39 063 M	176 729 A	251 698 A	51 687 M	91 832 M	
Three or more	131 172 A	U	U	36 963 M	U	U	
Don't know	70 541 M	U	U	U	U	U	
Not stated	2 009 300 A	182 388 A	467 092 A	742 768 A	182 585 A	140 946 A	
<b>Age of the most frequently used component stereo</b>							
5 years or less	2 224 219 A	136 212 A	554 071 A	857 546 A	101 703 A	300 973 A	
6 to 10 years	2 122 864 A	149 621 A	598 371 A	751 537 A	141 879 A	196 873 A	
11 to 15 years	1 140 089 A	67 486 A	329 679 A	440 671 A	41 206 A	72 708 M	
16 years or more	862 759 A	69 781 M	237 118 A	327 747 A	47 386 A	70 951 M	
Don't know	154 136 M	U	U	48 335 M	U	U	
Not stated	2 408 890 A	205 546 A	581 841 A	873 085 A	210 307 A	182 506 A	
<b>Households with an ENERGY STAR® qualified component stereo (most frequently used component stereo)</b>							
Yes	656 791 A	46 665 A	135 864 A	259 011 A	U	117 122 M	
No	2 967 739 A	168 087 A	909 279 A	1 085 826 A	159 592 A	284 619 A	
Don't know	2 087 803 A	179 884 A	421 200 A	825 113 A	126 132 A	200 704 A	
Not stated	3 200 623 A	247 652 A	878 912 A	1 128 970 A	243 977 A	232 064 A	
<b>Use of the most frequently used component stereo in an average week</b>							
4 hours or less	4 296 021 A	297 798 A	1 120 245 A	1 605 117 A	240 782 A	461 232 A	
5 to 10 hours	905 934 A	51 507 M	251 525 A	321 663 A	54 856 A	97 490 M	
11 to 20 hours	395 611 A	U	104 393 A	166 095 A	U	U	
21 to 30 hours	221 273 A	U	52 979 M	94 106 M	U	U	
31 to 40 hours	82 771 A	U	27 975 M	U	U	U	
41 to 55 hours	59 097 M	U	U	U	U	U	
56 hours or more	75 628 A	U	U	U	U	U	
Don't know	178 275 A	U	U	49 020 M	U	U	
Not stated	2 698 347 A	240 546 A	664 107 A	989 236 A	214 410 A	194 068 A	
<b>Households with a portable/compact stereo</b>							
Yes	5 672 003 A	399 713 A	1 365 244 A	2 188 997 A	370 904 A	622 288 A	
No	4 763 308 A	331 265 A	1 240 886 A	1 764 650 A	255 016 A	545 773 A	
Don't know	U	U	U	U	U	—	
Not stated	2 436 313 A	208 283 A	670 139 A	832 610 A	201 345 A	147 960 A	
<b>Number of portable/compact stereos</b>							
Zero	4 763 308 A	331 265 A	1 240 886 A	1 764 650 A	255 016 A	545 773 A	
One	4 419 078 A	311 080 A	1 127 820 A	1 677 290 A	284 033 A	447 900 A	
Two	1 015 627 A	72 337 A	209 019 A	406 302 A	69 259 M	127 373 A	
Three or more	237 298 A	U	U	105 406 M	U	U	
Don't know	U	U	U	U	U	—	
Not stated	2 436 313 A	208 283 A	670 139 A	832 610 A	201 345 A	147 960 A	

BY OCCUPANT DEMOGRAPHICS										
British Columbia	Households with only 18 to 24 year-old members	Households with only 25 to 44 year-old members	Households with only 45 to 64 year-old members	Households with only 65+ year-old members	Households with adults and children 0 to 12 years old only	Households with adults and teens 13 to 19 years old only	Households with adults and members 0 to 12 and 13 to 19 years old	Other compositions	Not stated	
931 657 A	U	728 737 A	1 557 286 A	712 287 A	1 335 786 A	869 459 A	438 947 A	982 793 A	167 605 A	
499 603 A	U	516 614 A	765 862 A	671 190 A	779 495 A	348 566 A	229 233 A	477 257 A	155 405 M	
	—	U	U	U	U	U	U	U	U	
293 523 A	U	73 485 M	417 458 A	778 862 A	175 624 M	106 018 A	62 473 M	238 039 A	149 857 M	
499 603 A	U	516 614 A	765 862 A	671 190 A	779 495 A	348 566 A	229 233 A	477 257 A	155 405 M	
806 182 A	U	639 368 A	1 412 613 A	667 767 A	1 174 740 A	715 239 A	381 703 A	810 242 A	147 592 A	
103 632 M	U	87 843 M	134 163 A	32 350 M	141 196 M	115 193 A	44 217 M	140 385 A	U	
	U	U	U	U	U	U	U	U	U	
	—	U	U	U	U	U	U	U	U	
293 523 A	U	73 485 M	417 458 A	778 862 A	175 624 M	106 018 A	62 473 M	238 039 A	149 857 M	
273 714 A	U	240 681 A	453 472 A	157 143 A	483 642 A	327 213 A	167 111 A	329 811 A	U	
284 584 A	U	282 375 A	522 502 A	177 240 A	428 677 A	241 292 A	99 947 M	291 033 A	U	
188 338 A	U	101 513 M	263 318 A	127 739 A	241 292 A	128 728 A	78 875 M	163 750 A	U	
109 775 A	—	U	229 862 A	140 030 A	119 481 M	117 256 A	63 919 M	120 373 A	U	
	—	U	U	U	U	U	U	U	U	
355 605 A	U	98 167 M	497 907 A	879 452 A	229 485 A	148 741 A	86 710 A	297 187 A	163 757 M	
73 163 M	U	U	152 344 A	42 808 M	164 930 A	75 531 M	U	111 231 A	U	
360 337 A	U	336 373 A	692 907 A	244 548 A	616 714 A	395 515 A	196 699 A	408 649 A	U	
334 769 A	U	265 190 M	415 959 A	196 620 A	431 447 A	295 104 A	154 148 A	270 575 A	U	
469 049 A	U	170 241 M	719 197 A	1 014 551 A	311 539 A	222 488 A	124 443 M	435 029 A	195 185 M	
570 849 A	U	478 710 A	903 321 A	386 966 A	969 465 A	560 116 A	275 168 A	597 964 A	99 550 M	
128 894 A	U	109 321 M	211 897 A	73 599 A	154 469 A	128 277 A	65 254 M	151 658 A	U	
55 961 M	U	U	113 657 A	33 516 M	64 352 M	49 880 M	U	50 654 M	U	
	U	U	94 037 M	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	34 865 M	U	U	U	U	U	U	
	—	U	U	U	U	U	U	U	U	
395 979 A	U	120 564 M	547 556 A	944 206 A	262 472 A	163 074 A	115 890 M	349 914 A	183 892 M	
724 857 A	U	615 876 A	1 073 066 A	446 813 A	1 431 891 A	739 767 A	446 286 A	704 034 A	168 273 M	
625 718 A	74 643 M	585 136 A	1 128 665 A	799 266 A	707 831 A	423 507 A	219 122 A	676 093 A	149 046 A	
	—	U	U	U	U	U	U	U	U	
375 976 A	U	112 450 M	538 999 A	918 853 A	153 282 A	166 178 A	68 267 M	319 908 A	155 548 M	
625 718 A	74 643 M	585 136 A	1 128 665 A	799 266 A	707 831 A	423 507 A	219 122 A	676 093 A	149 046 A	
570 956 A	U	574 197 A	938 420 A	410 018 A	1 040 140 A	462 261 A	251 076 A	578 380 A	130 187 M	
131 336 A	U	U	123 426 M	34 656 M	303 522 A	225 132 A	148 407 A	104 324 A	U	
	—	U	U	U	88 230 M	52 374 M	46 802 M	U	U	
	—	U	U	U	U	U	U	U	U	
375 976 A	U	112 450 M	538 999 A	918 853 A	153 282 A	166 178 A	68 267 M	319 908 A	155 548 M	

### Table 7.7 - Stereo (2/2)

[illegible]

## BY OCCUPANT DEMOGRAPHICS

# Table 7.8 - Computer (1/2)

NUMBER OF HOUSEHOLDS	BY REGION					
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan	Alberta
<b>Household with a personal computer (including laptops)</b>						
Yes	10 296 444 A	675 589 A	2 420 816 A	4 017 324 A	587 169 A	1 118 531 A
No	2 175 724 A	218 248 A	720 273 A	662 933 A	180 481 A	170 912 A
Not stated	460 182 A	47 901 A	162 788 A	114 180 A	71 707 M	U
<b>Number of personal computers</b>						
Zero	2 175 724 A	218 248 A	720 273 A	662 933 A	180 481 A	170 912 A
One	6 143 302 A	440 891 A	1 578 692 A	2 336 326 A	387 748 A	594 943 A
Two	2 377 813 A	128 832 A	530 497 A	887 404 A	122 950 A	323 739 A
Three	722 761 A	40 397 M	113 871 M	323 038 A	37 010 M	117 433 M
Four or more	324 792 A	U	59 714 M	159 881 A	U	U
Don't know	U	U	U	U	— —	— —
Not stated	1 149 814 A	103 109 A	273 220 A	422 966 A	106 663 M	67 025 M
<b>Type of personal computer most frequently used</b>						
Desktop	8 728 179 A	596 624 A	2 092 598 A	3 377 077 A	508 245 A	922 614 A
Laptop	1 424 108 A	68 872 A	262 009 M	620 004 A	73 129 A	182 081 A
Don't know	U	U	U	U	U	— —
Not stated	573 711 A	56 896 A	214 867 A	133 341 A	72 682 M	U
<b>Age of the most frequently used personal computer</b>						
5 years or less	7 557 434 A	466 009 A	1 669 235 A	3 044 997 A	431 326 A	881 207 A
6 to 10 years	1 759 789 A	141 977 A	495 654 A	615 739 A	113 693 A	157 578 A
11 to 15 years	122 409 A	U	33 547 M	46 186 M	U	U
16 years or more	48 812 M	U	U	U	U	U
Don't know	133 406 M	U	U	U	U	U
Not stated	1 134 777 A	95 595 A	285 509 A	390 795 A	103 691 M	81 000 A
<b>Households with an ENERGY STAR® qualified personal computer (most frequently used personal computer)</b>						
Yes	3 304 798 A	194 892 A	669 975 A	1 382 348 A	156 366 A	419 823 A
No	2 568 636 A	139 750 A	787 125 A	958 944 A	148 791 A	207 273 A
Don't know	3 204 843 A	246 026 A	645 972 A	1 241 646 A	193 912 A	406 815 A
Not stated	1 678 349 A	142 821 A	480 532 A	548 565 A	159 807 A	111 198 A
<b>Time the most frequently used personal computer is ON in a typical week</b>						
Less than 5 hours	1 334 938 A	72 670 A	364 827 A	553 100 A	65 380 A	122 933 A
5 to 10 hours	1 960 972 A	114 567 A	403 441 A	858 388 A	92 799 A	220 998 A
11 to 20 hours	1 609 726 A	90 968 A	404 019 A	594 468 A	84 568 A	193 419 A
21 to 30 hours	1 026 539 A	94 755 A	204 514 A	389 019 A	48 389 M	120 783 M
31 to 40 hours	687 075 A	35 129 M	218 946 M	243 134 A	30 245 M	66 049 M
41 to 55 hours	343 624 A	U	94 474 M	136 569 A	U	U
56 hours or more	1 793 437 A	126 187 A	339 024 A	710 257 A	112 310 A	230 536 A
Don't know	1 069 346 A	84 507 A	251 773 M	382 904 A	110 608 A	99 054 M
Not stated	930 969 A	89 407 A	302 585 A	263 665 A	104 114 M	57 390 M



British Columbia	BY OCCUPANT DEMOGRAPHICS								
	Households with only 18 to 24 year-old members	Households with only 25 to 44 year-old members	Households with only 45 to 64 year-old members	Households with only 65+ year-old members	Households with adults and children 0 to 12 years old only	Households with adults and teens 13 to 19 years old only	Households with adults and members 0 to 12 and 13 to 19 years old	Other compositions	Not stated
1 477 016 A	109 004 M	1 238 059 A	2 056 056 A	962 174 A	2 161 199 A	1 296 066 A	700 308 A	1 415 210 A	358 368 A
222 876 A	U	90 206 M	589 068 A	1 017 325 A	96 248 M	U	U	230 897 A	91 743 M
37 029 M	— —	U	101 147 M	190 218 A	U	U	U	56 632 M	U
222 876 A	U	90 206 M	589 068 A	1 017 325 A	96 248 M	U	U	230 897 A	91 743 M
804 702 A	U	793 203 A	1 500 823 A	704 990 A	1 295 766 A	525 150 A	282 534 A	765 489 A	207 954 A
384 391 A	U	346 513 M	333 916 A	102 868 A	545 118 A	387 319 A	202 951 A	375 269 A	U
91 012 M	U	U	40 794 M	U	174 279 A	198 230 A	93 066 M	116 514 A	U
U	U	U	U	U	U	114 116 M	71 619 M	U	U
U	— —	U	U	U	U	— —	U	U	U
176 831 M	U	U	234 175 A	327 842 A	151 791 M	84 707 M	65 413 M	169 431 A	U
1 231 021 A	U	839 601 A	1 719 047 A	871 924 A	1 848 558 A	1 162 272 A	615 388 A	1 275 813 A	328 516 M
218 014 A	U	368 317 A	307 150 A	56 072 M	304 585 A	124 602 A	76 998 M	117 440 A	U
U	— —	— —	U	U	U	— —	U	U	— —
55 510 M	U	U	119 174 A	215 960 A	U	U	U	74 894 M	U
1 064 659 A	87 063 M	999 359 A	1 457 802 A	560 157 A	1 640 130 A	1 051 887 A	526 660 A	1 004 344 A	230 032 A
235 149 A	U	156 291 A	429 364 A	219 867 A	360 383 A	152 750 A	101 924 M	269 148 A	U
U	— —	U	41 903 M	31 068 M	U	U	U	U	U
U	— —	U	U	U	U	U	— —	U	U
U	U	U	U	U	U	U	U	U	U
178 188 M	U	U	191 795 A	313 323 A	145 166 M	84 698 M	84 476 M	167 914 A	U
481 393 A	U	323 951 A	740 555 A	228 442 A	747 978 A	456 386 A	233 890 A	435 688 A	108 931 M
326 754 A	U	428 372 M	482 218 A	167 911 A	578 892 A	237 393 A	191 239 A	370 280 A	U
470 472 A	U	402 240 A	605 939 A	328 330 A	691 779 A	467 716 A	186 098 A	413 160 A	74 866 M
235 426 M	U	U	328 490 A	427 710 A	189 227 M	148 028 A	105 298 M	252 714 A	129 304 M
156 027 A	U	127 742 M	415 794 A	170 531 A	276 898 A	75 904 M	U	177 868 A	U
270 779 A	U	173 538 A	394 968 A	211 263 A	468 683 A	166 103 A	107 417 M	291 865 A	U
242 285 A	U	223 745 M	318 662 A	161 507 A	323 296 A	203 358 A	115 444 M	217 958 A	U
169 079 A	U	126 979 M	205 131 A	85 263 M	158 282 A	191 513 A	82 301 M	132 391 A	U
93 571 M	U	U	97 633 A	49 495 M	120 525 A	99 181 A	U	76 617 M	U
52 875 M	U	U	46 396 M	U	U	58 224 M	U	68 308 M	U
275 123 A	U	233 935 A	298 559 A	101 250 A	444 984 A	269 727 A	142 683 A	217 582 A	U
140 499 A	U	75 273 M	164 481 A	99 650 A	265 506 M	182 716 A	80 324 M	156 751 A	U
113 808 M	U	U	215 580 A	249 673 A	113 602 M	62 796 M	U	132 503 A	U

### Table 7.8 - Computer (2/2)

[illegible]

## BY OCCUPANT DEMOGRAPHICS

### Table 7.9 - Computer monitor

[illegible]

## BY OCCUPANT DEMOGRAPHICS

### Table 7.10 - Computer printer

[illegible]

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### Table 7.11 - Telephone

[illegible]



## BY OCCUPANT DEMOGRAPHICS

### Table 7.12 - Water cooler

[illegible]

## BY OCCUPANT DEMOGRAPHICS

### Table 7.13 - Unplug electronics

[illegible]

## BY OCCUPANT DEMOGRAPHICS



## Section 8



## Hot water



# Table 8.1 - Hot water (1/2)

NUMBER OF HOUSEHOLDS			BY REGION							
	Canada		Atlantic		Quebec		Ontario		Manitoba/ Saskatchewan	
Households with a hot water heater										
Yes	9 183 831	A	763 226	A	2 028 062	A	3 438 529	A	630 180	A
Dwelling does not have hot running water	40 481	M		U		U		U		U
Don't know	116 823	M		U		U		U		U
Not stated	78 780	M		U		U		U		U
The hot water heater is located in the dwelling										
Yes	8 650 419	A	754 981	A	1 830 960	A	3 250 926	A	609 626	A
No	481 757	A		U	195 226	M	142 449	M		U
Don't know		U	—	—		—		U	—	—
Not stated	199 715	A		U		U	117 494	M		U
Type of hot water heater										
Standard hot water tank	8 198 276	A	641 215	A	1 795 458	A	3 097 047	A	597 667	A
Tankless (instantaneous water heater)	67 939	A	25 210	M		U		U		U
Combination boiler (typically a wall-hung unit)	104 424	A	37 644	A		U		U		U
Boiler	57 271	M		U		U		U		U
Other	188 000	M	30 465	M		U	45 350	M		U
Don't know	158 407	M		U		U		U		U
Not stated	349 868	A	46 988	M	47 653	M	186 796	M		U
Energy source of the hot water heater										
Electricity	3 787 709	A	554 095	A	1 806 505	A	760 902	A	193 654	A
Oil	325 076	A	181 232	A	45 704	M	85 877	A		U
Natural gas	4 426 208	A		U	54 372	M	2 335 856	A	396 822	A
Propane	66 462	M		U		U	40 925	M		U
Other source		U		U		U		U		U
Don't know	149 722	A		U		U		U		U
Not stated	335 583	A	41 161	M		U	195 074	M		U
Age of the hot water heater										
5 years or less	3 755 117	A	366 264	A	821 712	A	1 334 908	A	274 325	A
6 to 10 years	2 576 550	A	196 400	A	682 119	A	933 472	A	182 108	A
11 to 15 years	904 897	A	73 486	A	206 794	A	353 253	A	36 040	M
16 to 20 years	468 116	A	32 104	M	69 614	A	217 761	A	23 992	M
21 to 25 years	131 515	A		U		U	47 438	A		U
26 years or more	112 722	A		U		U	23 437	M	25 572	M
Don't know	699 203	A	51 776	A	79 100	M	334 291	A	61 972	M
Not stated	476 065	A	46 274	M	48 718	M	237 533	M		U
Replaced the previous hot water tank with the current hot water heater										
Yes	5 097 489	A	456 941	A	1 262 542	A	1 854 841	A	372 248	A
No	3 320 537	A	271 344	A	608 179	A	1 234 750	A	228 174	A
Don't know	394 540	A		U	57 720	M	209 083	A		U
Not stated	311 619	A	41 858	M		U	183 421	M		U
Condition of the previous hot water tank when replaced										
Still working	1 932 238	A	141 308	A	460 823	A	859 747	A	65 845	A
Not working	3 025 976	A	299 571	A	761 837	A	951 154	A	302 553	A
Don't know	124 410	M		U		U	39 735	M		U
Not stated	721 023	A	59 502	M	80 944	M	396 709	A	40 341	M



		BY LOCATION			
Alberta		British Columbia		Urban	Rural
1 061 995	A	1 261 839	A	6 949 195	A
	U		U		U
—	—		U	93 284	U
	U		U	54 439	U
1 012 313	A	1 191 613	A	6 450 606	A
	U	69 344	M	450 106	U
—	—	—	—		—
	U		U	148 663	U
949 235	A	1 117 654	A	6 139 131	A
	U		U	48 065	U
	U		U	70 006	M
	U		U	55 498	U
	U		U		37 141
	U		U	138 460	U
	U	39 767	M	262 908	M
55 578	M	416 976	A	2 391 706	A
	U		U	181 529	A
894 270	A	740 516	A	3 872 739	A
	U		U		51 791
	U		U		U
	U		U	127 576	U
	U		U	259 291	M
416 658	A	541 250	A	2 838 577	A
266 972	A	315 478	A	1 952 333	A
116 993	A	118 329	A	679 658	A
63 936	M	60 708	M	333 069	A
	U		U	83 323	A
	U		U	73 862	A
71 046	M	101 017	A	545 717	A
	U	57 788	M	358 387	A
431 318	A	719 599	A	3 833 460	A
560 147	A	417 944	A	2 444 955	A
	U	52 636	M	341 849	A
	U	42 471	M	244 662	M
181 194	A	223 320	A	1 498 207	A
237 556	A	473 306	A	2 228 439	A
	U		U	99 448	M
	U	100 847	A	593 877	A

### Table 8.1 - Hot water (2/2)

[illegible]

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## Section 9



# Lighting



# Table 9.1 - Light bulbs (1/2)

NUMBER OF HOUSEHOLDS			BY REGION							
	Canada		Atlantic		Quebec		Ontario		Manitoba/ Saskatchewan	
Households with incandescent light bulbs										
Yes	10 804 359	A	802 139	A	2 731 174	A	4 034 336	A	684 707	A
No	1 030 861	A	63 846	A	293 029	M	380 074	A	72 461	A
Don't know	355 788	A		U		U	132 579	M		U
Not stated	741 343	A	54 295	M	222 007	A	247 448	A	59 667	M
Number of incandescent light bulbs										
None	1 030 861	A	63 846	A	293 029	M	380 074	A	72 461	A
1 to 5 bulbs	1 689 890	A	106 397	A	486 117	A	620 634	A	108 218	A
6 to 10 bulbs	2 306 510	A	155 063	A	646 250	A	881 442	A	125 973	A
11 to 20 bulbs	2 578 148	A	188 583	A	701 538	A	975 656	A	156 476	A
More than 20 bulbs	2 014 677	A	149 781	A	396 478	A	718 270	A	151 207	A
Don't know	833 099	A	67 848	M	125 392	A	317 909	A	51 788	M
Not stated	1 382 034	A	134 466	A	375 399	A	520 425	A	91 045	A
Households with compact fluorescent light bulbs										
Yes	9 161 567	A	664 394	A	2 205 227	A	3 610 836	A	563 804	A
No	3 593 964	A	265 379	A	1 056 737	A	1 112 843	A	261 134	A
Don't know		U		U		U		U		U
Refusal	142 990	M		U		U		U		U
Number of compact fluorescent light bulbs										
None	3 593 964	A	265 379	A	1 056 737	A	1 112 843	A	261 134	A
1 to 5 bulbs	2 107 865	A	101 856	A	591 092	A	726 017	A	165 040	A
6 to 10 bulbs	1 836 018	A	118 098	A	401 075	A	763 871	A	117 731	A
11 to 20 bulbs	1 429 653	A	131 448	A	257 644	A	648 321	A	74 338	A
More than 20 bulbs	512 985	A	47 832	A	49 911	M	244 149	A	28 691	M
Don't know	519 786	A	34 266	M		U	215 597	A		U
Not stated	2 755 261	A	230 894	A	818 835	A	1 012 881	A	144 756	A
Households with halogen light bulbs										
Yes	4 599 024	A	206 476	A	1 416 618	A	1 635 287	A	237 549	A
No	8 117 078	A	717 456	A	1 854 002	A	3 091 863	A	589 450	A
Don't know		U		U		U		U		U
Refusal	186 245	M		U		U		U		U
Number of halogen light bulbs										
None	8 117 078	A	717 456	A	1 854 002	A	3 091 863	A	589 450	A
1 to 5 bulbs	1 760 633	A	86 301	A	579 916	A	588 629	A	110 453	A
6 to 10 bulbs	943 560	A	30 299	M	295 988	A	334 278	A	34 598	M
11 to 20 bulbs	606 834	A	25 817	M	198 299	A	214 695	A		U
More than 20 bulbs	297 516	A		U	79 624	A	134 360	A		U
Don't know	166 407	A		U	32 390	M	77 161	M		U
Not stated	824 074	A	55 957	A	230 400	A	286 165	A	56 384	A
Households with fluorescent tubes										
Yes	6 340 612	A	399 378	A	1 258 628	A	2 529 396	A	489 531	A
No	6 468 554	A	526 165	A	2 023 652	A	2 218 676	A	337 709	A
Don't know		U		U		U		U		U
Refusal	87 869	M		U		U		U		U

		BY HEATED AREA							
Alberta	British Columbia	56 square metres or less (600 square feet or less)	56 to 93 square metres (601 to 1,000 square feet)	93 to 139 square metres (1,001 to 1,500 square feet)	139 to 186 square metres (1,501 to 2,000 square feet)	186 to 232 square metres (2,001 to 2,500 square feet)	232 or more square metres (2,501 or more square feet)		
1 083 026 A	1 468 977 A	820 036 A	2 844 197 A	3 705 542 A	1 842 605 A	861 644 A	730 335 A		
122 317 M	99 133 M	91 431 M	312 433 M	327 153 A	215 310 M	56 539 M	U		
77 608 M	43 953 M	U	72 024 M	147 248 M	62 840 M	U	U		
U	124 857 M	U	237 988 A	221 813 A	107 681 M	43 753 M	U		
122 317 M	99 133 M	91 431 M	312 433 M	327 153 A	215 310 M	56 539 M	U		
139 436 A	229 088 A	231 292 A	578 750 A	518 580 A	216 335 A	96 486 A	U		
235 424 A	262 359 A	246 088 A	750 670 A	737 562 A	316 062 A	159 072 A	97 057 A		
219 758 A	336 137 A	120 947 M	698 987 A	982 053 A	427 077 A	190 602 A	158 482 A		
275 363 A	323 578 A	U	246 880 A	751 276 A	469 945 A	251 358 A	271 278 A		
121 671 A	148 491 A	U	191 430 A	282 830 A	169 199 A	76 749 M	72 174 M		
91 373 A	169 325 A	157 050 M	377 481 A	433 240 A	243 988 A	87 379 M	82 896 A		
880 704 A	1 236 603 A	493 012 A	2 204 203 A	3 294 510 A	1 750 234 A	767 884 A	651 724 A		
421 867 A	476 004 A	490 544 A	1 213 138 A	1 047 761 A	455 371 A	206 455 A	180 695 A		
U	U	U	U	U	U	U	U		
U	U	U	U	U	U	U	U		
421 867 A	476 004 A	490 544 A	1 213 138 A	1 047 761 A	455 371 A	206 455 A	180 695 A		
203 469 A	320 391 A	138 845 M	617 017 A	784 383 A	323 474 A	133 894 A	110 252 A		
159 417 A	275 827 A	90 663 M	453 684 A	659 020 A	351 997 A	151 279 A	129 375 A		
175 129 A	142 772 A	U	286 524 A	553 199 A	307 895 A	136 901 A	109 603 A		
64 035 M	78 367 M	U	U	161 935 A	137 504 A	93 448 A	79 973 M		
52 651 M	97 354 A	U	78 511 A	205 577 M	99 588 A	46 270 M	U		
226 003 A	321 892 A	207 899 M	730 004 A	930 395 A	529 777 A	206 092 A	151 094 A		
469 059 A	634 034 A	195 919 M	1 096 470 A	1 602 593 A	870 106 A	442 390 A	391 546 A		
833 992 A	1 030 315 A	741 501 A	2 307 657 A	2 755 139 A	1 328 806 A	538 037 A	445 938 A		
U	U	U	U	U	U	U	U		
U	U	U	U	U	U	U	U		
833 992 A	1 030 315 A	741 501 A	2 307 657 A	2 755 139 A	1 328 806 A	538 037 A	445 938 A		
141 037 A	254 297 A	101 513 M	541 502 A	627 258 A	292 191 A	121 473 A	76 697 M		
113 326 M	135 071 A	U	172 101 A	373 678 A	196 971 A	95 897 M	82 258 A		
65 603 M	85 141 M	U	90 475 M	181 073 A	149 071 A	102 626 A	75 739 M		
U	U	U	U	72 782 A	74 306 M	46 369 M	83 287 M		
U	U	U	U	63 936 M	U	U	U		
83 293 M	111 875 A	59 550 M	233 533 A	283 866 A	123 760 A	59 310 M	64 054 M		
671 882 A	991 798 A	389 075 A	1 435 460 A	2 248 788 A	1 203 724 A	576 077 A	487 488 A		
641 867 A	720 485 A	607 095 A	1 994 846 A	2 115 000 A	995 757 A	403 923 A	351 934 A		
U	U	U	U	U	U	—	—		
U	U	U	U	U	U	U	U		

### Table 9.1 - Light bulbs (2/2)

[illegible]



[illegible]

### Table 9.2 - Lighting use

[illegible]

[illegible]

## Table 9.3 - Lighting controls

NUMBER OF HOUSEHOLDS			BY REGION			
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan	
Households with light bulbs using a programmable timer control						
Yes	1 590 612 A	82 255 A	417 317 A	665 193 A	75 083	A
No	9 779 012 A	761 292 A	2 577 535 A	3 525 088 A	617 080	A
Don't know	271 405 A	U	U	119 502 M		U
Not stated	1 291 321 A	80 789 A	243 488 A	484 655 A	115 782	A
Number of light bulbs using a programmable timer control						
Zero	9 779 012 A	761 292 A	2 577 535 A	3 525 088 A	617 080	A
One	697 776 A	35 613 M	193 894 A	238 787 A	43 676	M
Two to three	584 483 A	32 223 M	148 813 A	270 687 A	27 290	M
More than three	308 353 A	U	74 610 A	155 719 A		U
Don't know	271 405 A	U	U	119 502 M		U
Not stated	1 291 321 A	80 789 A	243 488 A	484 655 A	115 782	A
Households with light bulbs using a motion detector						
Yes	2 286 282 A	124 435 A	380 387 A	871 044 A	182 686	A
No	8 149 218 A	642 203 A	2 278 788 A	2 960 629 A	460 441	A
Don't know	204 542 M	U	U	91 621 M		U
Not stated	2 292 308 A	158 461 A	598 601 A	871 142 A	173 280	A
Number of light bulbs using a motion detector						
Zero	8 149 218 A	642 203 A	2 278 788 A	2 960 629 A	460 441	A
One	986 836 A	57 753 A	190 240 A	386 135 A	79 765	A
Two to three	1 030 051 A	50 158 A	159 099 A	398 460 A	85 361	A
More than three	269 394 A	U	31 048 M	86 449 A	17 560	M
Don't know	204 542 M	U	U	91 621 M		U
Not stated	2 292 308 A	158 461 A	598 601 A	871 142 A	173 280	A
Households with light bulbs using a light sensor						
Yes	1 062 788 A	57 673 A	216 619 A	433 421 A	51 559	A
No	8 899 368 A	683 188 A	2 346 523 A	3 232 596 A	554 887	A
Don't know	225 650 M	U	U	99 739 M		U
Not stated	2 744 545 A	183 045 A	688 355 A	1 028 681 A	204 798	A
Number of light bulbs using a light sensor						
Zero	8 899 368 A	683 188 A	2 346 523 A	3 232 596 A	554 887	A
One	507 130 A	32 239 M	109 662 M	222 390 A	27 286	M
Two to three	411 653 A	22 036 M	61 912 M	162 972 A	19 300	M
More than three	144 004 A	U	U	48 058 M		U
Don't know	225 650 M	U	U	99 739 M		U
Not stated	2 744 545 A	183 045 A	688 355 A	1 028 681 A	204 798	A
Households with at least one dimmer on household lights						
Yes	6 350 994 A	399 723 A	1 567 828 A	2 499 079 A	372 658	A
No	6 167 222 A	518 323 A	1 635 727 A	2 148 947 A	438 906	A
Not stated	414 134 A	U	100 323 M	146 411 M		U

		BY HEATED AREA					
Alberta	British Columbia	56 square metres or less (600 square feet or less)	56 to 93 square metres (601 to 1,000 square feet)	93 to 139 square metres (1,001 to 1,500 square feet)	139 to 186 square metres (1,501 to 2,000 square feet)	186 to 232 square metres (2,001 to 2,500 square feet)	232 or more square metres (2,501 or more square feet)
109 662 A	241 102 A	U	322 107 A	511 914 A	372 637 A	174 895 A	176 411 A
1 072 081 A	1 225 936 A	861 613 A	2 816 846 A	3 339 622 A	1 545 038 A	703 398 A	512 494 A
U	U	U	72 305 M	99 245 M	U	U	U
131 940 A	234 668 A	86 852 M	255 384 A	450 975 A	284 955 A	87 177 A	125 978 A
1 072 081 A	1 225 936 A	861 613 A	2 816 846 A	3 339 622 A	1 545 038 A	703 398 A	512 494 A
61 994 M	123 812 A	U	179 116 M	279 307 A	120 075 A	58 898 M	39 246 M
U	72 326 A	U	104 567 M	157 571 A	161 886 A	88 598 A	61 011 M
U	44 963 M	U	U	75 036 M	90 676 A	27 398 M	76 155 M
U	U	U	72 305 M	99 245 M	U	U	U
131 940 A	234 668 A	86 852 M	255 384 A	450 975 A	284 955 A	87 177 A	125 978 A
341 650 A	386 079 A	U	411 824 A	907 097 A	503 316 A	203 386 A	220 238 A
839 693 A	967 462 A	708 251 A	2 474 051 A	2 661 673 A	1 249 415 A	613 739 A	442 090 A
U	U	U	U	U	U	U	U
132 131 A	358 693 A	249 411 M	532 927 A	749 113 A	450 561 A	154 256 A	156 040 A
839 693 A	967 462 A	708 251 A	2 474 051 A	2 661 673 A	1 249 415 A	613 739 A	442 090 A
136 706 A	136 238 A	U	217 892 A	400 667 A	207 582 A	73 493 A	64 932 M
150 745 A	186 228 A	U	168 768 A	406 627 A	224 127 A	101 986 A	115 347 M
54 200 M	63 612 M	U	25 164 M	99 803 A	71 608 M	27 907 M	39 959 M
U	U	U	U	U	U	U	U
132 131 A	358 693 A	249 411 M	532 927 A	749 113 A	450 561 A	154 256 A	156 040 A
110 144 M	193 372 A	U	180 718 A	461 333 A	233 431 A	84 437 A	93 868 A
1 003 032 A	1 079 141 A	724 317 A	2 633 523 A	2 923 987 A	1 437 605 A	677 708 A	502 227 A
U	U	U	59 768 M	U	U	U	U
200 466 A	439 200 A	264 181 M	592 633 A	927 658 A	530 774 A	208 577 A	220 723 A
1 003 032 A	1 079 141 A	724 317 A	2 633 523 A	2 923 987 A	1 437 605 A	677 708 A	502 227 A
44 616 M	70 937 M	U	96 640 M	218 904 A	105 774 A	38 889 M	40 656 M
U	92 105 M	U	69 430 M	184 854 A	87 390 M	32 611 M	34 634 M
U	U	—	U	57 575 M	U	U	U
U	U	U	59 768 M	U	U	U	U
200 466 A	439 200 A	264 181 M	592 633 A	927 658 A	530 774 A	208 577 A	220 723 A
608 682 A	903 025 A	219 496 A	1 402 088 A	2 321 155 A	1 272 866 A	593 463 A	541 927 A
681 283 A	744 036 A	713 873 A	1 941 495 A	1 964 018 A	893 036 A	375 652 A	279 148 A
U	U	U	123 059 M	116 583 M	U	U	U



## Section 10



# Energy profile of households



# Table 10.1 - Energy sources used

NUMBER OF HOUSEHOLDS			BY REGION									
	Canada			Atlantic		Quebec		Ontario		Manitoba/ Saskatchewan		
Electricity used by the household as an energy source												
Yes	12 932 350	A		941 738	A	3 303 877	A	4 794 437	A	839 356	A	
No	—	—		—	—	—	—	—	—	—	—	
Natural gas used by the household as an energy source												
Yes	6 375 432	A			U	181 131	A	3 311 401	A	577 731	A	
No	6 556 918	A		915 675	A	3 122 746	A	1 483 036	A	261 625	A	
Heating oil used by the household as an energy source												
Yes	1 334 623	A		432 562	A	444 308	A	360 524	A		U	
No	11 597 727	A		509 176	A	2 859 570	A	4 433 913	A	818 303	A	
Propane used by the household as an energy source												
Yes	423 663	A		100 894	A	129 053	A	125 938	A		U	
No	12 508 687	A		840 844	A	3 174 824	A	4 668 499	A	826 696	A	
Wood used by the household for heating												
Yes	1 745 974	A		284 475	A	656 382	A	403 665	A	61 006	A	
No	11 186 376	A		657 263	A	2 647 495	A	4 390 772	A	778 350	A	
Household used energy source(s) other than electricity, natural gas, oil, propane or wood												
Yes	143 994	A			U	60 592	M	34 612	M		U	
No	12 036 800	A		905 634	A	3 072 031	A	4 467 793	A	741 858	A	
Don't know	413 514	A			U		U	207 752	M		U	
Not stated	338 043	A			U	141 212	A	84 280	M		U	
Household used wind or solar power as an energy source												
Yes	33 334	M			U		U		U		U	
No	86 586	M			U		U		U		U	
Not stated	775 631	A		27 521	M	177 526	A	302 934	A	91 537	M	
Household used other energy source(s)												
Yes	87 551	M			U		U		U		U	
No	32 369	M			U		U		U		U	
Not stated	775 631	A		27 521	M	177 526	A	302 934	A	91 537	M	
Main energy source used by household (based on main heating energy source)												
Electricity	4 683 989	A		387 687	A	2 470 316	A	907 535	A	222 246	A	
Natural gas	5 479 006	A			U	135 933	A	2 967 517	A	494 428	A	
Heating oil	949 763	A		320 395	A	289 045	A	268 787	A		U	
Wood	517 342	A		131 322	A	215 909	A	89 665	M		U	
Propane	95 842	A			U		U	62 188	A		U	
Other	71 982	M			U		U		U		U	
Dual source	501 440	A		67 786	A	112 073	A	147 011	A	35 546	M	
Don't know	438 541	A		—	—		U	243 764	M		U	
Not stated	194 445	A			U		U	74 457	M		U	



		BY TYPE OF DWELLING				
Alberta	British Columbia	Single detached houses	Double/row houses	Low-rise apartments	High-rise apartments	Mobile homes
1 316 021 A — —	1 736 920 A — —	7 485 759 A — —	2 045 197 A — —	2 130 172 A — —	1 098 734 A — —	172 488 A — —
1 182 227 A 133 794 M	1 096 878 A 640 042 A	4 332 250 A 3 153 509 A	1 118 134 A 927 063 A	535 998 A 1 594 174 A	330 084 A 768 650 A	58 966 M 113 522 A
U 1 314 985 A	75 140 M 1 661 780 A	1 024 778 A 6 460 981 A	U 1 913 707 A	123 473 M 2 006 699 A	U 1 079 314 A	U 137 027 A
U 1 306 708 A	45 806 M 1 691 115 A	364 331 A 7 121 428 A	U 2 025 202 A	U 2 109 005 A	— — 1 098 734 A	U 154 317 A
139 405 A 1 176 616 A	201 041 A 1 535 879 A	1 606 369 A 5 879 390 A	83 013 M 1 962 184 A	U 2 099 889 A	— — 1 098 734 A	U 146 178 A
U 1 237 007 A U U	U 1 612 477 A U U	123 358 M 7 139 916 A U 180 617 A	U 1 955 314 A U U	U 1 882 290 A 146 174 M 91 165 M	U 894 185 A 174 216 M U	U 165 095 A — — U
U U U	U U U	27 354 M 76 248 M 242 241 A	U U 85 510 M	U U 237 078 M	U — — 204 036 M	U — — U
U U U	U U U	77 212 M 26 390 M 242 241 A	U U 85 510 M	U U 237 078 M	— — U 204 036 M	— — U U
148 038 A 1 017 073 A U U U U 73 063 M U U	548 166 A 848 573 A 54 716 M 58 648 M U U 65 960 M U U	1 853 470 A 3 822 107 A 729 021 A 495 403 A 79 623 A U 389 244 A U 68 181 M	885 732 A 934 281 A U U U — — 66 698 M U U	1 369 380 A 405 371 A 86 196 M U U U U 179 786 M U	510 778 A 270 704 A U — — — — U U 214 588 M U	64 629 A 46 544 M U U U — — U — — U

### Table 10.2 - Presence of occupants

[illegible]

[illegible]

### Table 10.3 - Energy bills

[illegible]

2007 Survey of Household Energy Use • Detailed Statistical Report



## Section 11



# Energy consumption and intensity



## Definition of energy consumption for the SHEU-2007

For SHEU-2007, energy consumption is the sum of household electricity, natural gas, heating oil, propane and wood consumption in terms of energy during 2007. For this survey, household energy consumption *excludes* energy consumed for transportation and gas-powered equipment requirements.

Household energy consumption data for SHEU-2007 are presented in gigajoules of energy.

## What is a gigajoule?

### A unit of energy

A gigajoule (GJ) is a common unit used to measure energy consumption.

Many types of energy consumption can be measured in gigajoules, including

- electricity
- natural gas
- heating oil
- propane
- wood

All of these energy sources are consumed by Canadian households. Therefore, the gigajoule is a useful unit of measure for the sum of various types of energy consumed by households.

### A gigajoule in plain terms

One gigajoule is approximately equivalent to the energy consumed by

- using ten 60-watt light bulbs for eight hours a day for two months
- the average Canadian personal vehicle in 5.5 days<sup>5</sup>
- the average digital television used in Canadian households in a year<sup>6</sup>
- the average Canadian household (excluding transportation and gas-powered equipment requirements) in approximately 3.5 days<sup>7</sup>

<sup>5</sup> Calculations based on 2007 data from *Natural Resources Canada, Energy Use Data Handbook – 1990 to 2007*.

<sup>6</sup> Natural Resources Canada, Office of Energy Efficiency, Residential End Use Model, 2007.

<sup>7</sup> Calculations based on data from the 2007 Survey of Household Energy Use.





# Table 11.1 - Total energy consumption\* (1/3)

GIGAJOULES OF ENERGY CONSUMED BY HOUSEHOLDS (GJ)				BY REGION			
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan		
Gigajoules	1 369 368 803 A	108 031 496 A	313 033 221 A	512 261 783 A	96 838 876 A		
<b>Region</b>							
Canada	1 369 368 803 A						
Atlantic	108 031 496 A						
Quebec	313 033 221 A						
Ontario	512 261 783 A						
Manitoba/Saskatchewan	96 838 876 A						
Alberta	170 931 968 A						
British Columbia	168 271 460 A						
<b>Type of dwelling</b>							
Single detached house	1 032 358 398 A	91 027 945 A	221 102 094 A	371 769 985 A	81 592 393 A		
Double/row house	178 394 478 A	6 556 912 A	46 382 338 A	81 455 609 A	4 516 861 M		
Low-rise apartment	93 527 174 A	6 094 017 M	39 131 133 A	23 799 795 A	6 905 361 A		
High-rise apartment	48 169 643 A	U	3 472 011 M	34 517 643 A	U		
Mobile home	16 919 111 A	2 412 001 M	2 945 646 M	U	2 371 502 M		
<b>Dwelling construction date</b>							
Before 1946	188 795 704 A	22 450 807 A	55 850 363 A	76 631 832 A	13 649 312 M		
1946–1969	319 043 429 A	21 114 175 A	75 386 732 A	126 452 363 A	29 464 153 A		
1970–1979	256 070 007 A	22 487 694 A	61 094 522 A	79 829 965 A	19 310 508 A		
1980–1989	257 380 923 A	19 253 342 A	56 463 938 A	103 216 912 A	18 941 807 A		
1990–1999	215 897 399 A	14 851 631 A	44 604 458 A	77 925 539 A	8 727 825 A		
2000–2007	132 181 340 A	7 873 847 A	19 633 208 A	48 205 172 A	6 745 270 M		
<b>Type of population centre</b>							
Urban	1 011 554 526 A	50 573 995 A	212 624 095 A	407 213 263 A	66 628 624 A		
Rural	357 814 277 A	57 457 501 A	100 409 126 A	105 048 519 A	30 210 251 A		
<b>Occupation mode</b>							
Own	1 165 935 261 A	96 081 469 A	253 466 683 A	433 172 533 A	84 187 057 A		
Rent	203 350 410 A	11 950 027 A	59 566 538 A	79 089 250 A	12 651 819 A		
Not stated	U	— —	— —	— —	— —		
<b>Number of people in the household</b>							
1 member	222 409 155 A	18 117 441 A	54 682 157 A	76 520 490 A	18 730 854 A		
2 members	471 999 169 A	42 423 059 A	117 764 354 A	168 028 587 A	31 280 944 A		
3 members	232 650 039 A	18 079 402 A	48 578 892 A	88 288 388 A	17 447 273 A		
4 or more members	394 482 353 A	25 751 110 A	81 959 301 A	158 265 182 A	26 341 128 A		
Not stated	47 828 087 A	3 660 484 M	10 048 517 M	21 159 136 M	U		

\* Total energy consumption (includes electricity, natural gas, heating oil, propane and wood use)

					BY TYPE OF DWELLING									
Alberta			British Columbia		Single detached houses		Double/row houses		Low-rise apartments		High-rise apartments		Mobile homes	
170 931 968	A		168 271 460	A	1032 358 398	A	178 394 478	A	93 527 174	A	48 169 643	A	16 919 111	A
					1 032 358 398	A	178 394 478	A	93 527 174	A	48 169 643	A	16 919 111	A
					91 027 945	A	6 556 912	A	6 094 017	M		U	2 412 001	M
					221 102 094	A	46 382 338	A	39 131 133	A	3 472 011	M	2 945 646	M
					371 769 985	A	81 455 609	A	23 799 795	A	34 517 643	A		U
					81 592 393	A	4 516 861	M	6 905 361	A		U	2 371 502	M
					138 540 407	A	17 490 848	M	7 008 886	M		U	4 476 624	M
					128 325 573	A	21 991 910	A	10 587 982	A	3 371 408	M	3 994 588	M
138 540 407	A		128 325 573	A										
17 490 848	M		21 991 910	A										
7 008 886	M		10 587 982	A										
	U		3 371 408	M										
4 476 624	M		3 994 588	M										
5 413 584	M		14 799 807	A	144 720 436	A	31 908 956	M	11 399 920	M		U		U
30 987 810	A		35 638 196	A	249 844 844	A	33 009 309	A	20 933 294	A	13 560 484	M		U
37 814 419	A		35 532 898	A	184 856 314	A	36 815 566	A	14 245 427	A	11 265 482	A	8 887 219	M
27 534 536	A		31 970 388	A	195 627 053	A	28 698 589	A	18 421 887	A		U	3 326 041	M
32 167 318	A		37 620 629	A	159 621 523	A	24 382 552	A	21 830 386	M	8 072 088	M	1 990 850	M
37 014 301	M		12 709 542	M	97 688 227	A	23 579 507	M	6 696 259	M		U		U
137 626 661	A		136 887 887	A	708 110 712	A	160 935 338	A	86 615 108	A	47 498 315	A	8 395 053	M
33 305 306	A		31 383 573	A	324 247 686	A	17 459 139	M	6 912 066	M		U	8 524 058	A
151 989 561	A		147 037 958	A	978 964 425	A	125 685 834	A	25 832 136	A	20 057 466	M	15 395 400	A
18 942 407	A		21 150 369	A	53 393 973	A	52 708 643	A	67 695 037	A	28 112 177	A		U
— —				U	— —		— —		— —		— —			U
28 479 537	A		25 878 677	A	118 455 052	A	33 893 638	A	44 820 186	A	21 530 211	A	3 710 068	M
54 285 399	A		58 216 826	A	360 500 368	A	61 779 148	A	27 553 494	A	14 032 348	A	8 133 812	M
29 148 280	A		31 107 805	A	185 354 669	A	31 962 720	A	7 138 378	A		U		U
55 362 464	A		46 803 168	A	332 449 564	A	45 909 083	A	8 890 702	M		U		U
	U		6 264 984	M	35 598 744	A		U		U		U		U
					</									

# Table 11.1 - Total energy consumption\* (2/3)

GIGAJOULES OF ENERGY CONSUMED BY HOUSEHOLDS (GJ)				BY REGION						
	Canada		Atlantic		Quebec		Ontario		Manitoba/ Saskatchewan	
Occupant demographics										
Households with only 18 to 24 year-old members	8 614 739	M		U		U		U		U
Households with only 25 to 44 year-old members	99 035 079	A	5 622 698	A	21 858 128	M	41 087 202	A	7 067 491	A
Households with only 45 to 64 year-old members	270 638 910	A	25 686 054	A	75 550 810	A	88 669 743	A	17 860 095	A
Households with only 65+ year-old members	200 860 380	A	16 752 479	A	41 474 951	A	70 829 799	A	18 086 152	A
Households with adults and children 0 to 12 years old only	271 572 801	A	18 449 794	A	52 869 775	A	100 611 207	A	19 732 065	A
Households with adults and teens 13 to 19 years old only	170 997 057	A	13 013 706	A	37 332 305	A	64 852 382	A	14 457 898	A
Households with adults and members 0 to 12 and 13 to 19 years old	101 607 597	A	4 157 987	M	23 869 668	A	48 189 796	A	6 545 933	M
Other compositions	198 214 153	A	20 339 905	A	47 669 586	A	74 699 216	A	9 504 333	A
Not stated	47 828 087	A	3 660 484	M	10 048 517	M	21 159 136	M		U
Dwelling part of a condominium										
Yes	69 605 284	A		U	9 474 218	M	32 958 291	M	2 287 367	M
No	126 503 146	A	7 641 870	A	41 082 211	A	54 380 287	A	7 197 526	A
Don't know		U	—	—		U		U	—	—
Not stated	39 536 611	A		U	9 415 893	M	16 243 081	M		U
Household income										
Less than \$20,000	91 555 231	A	11 403 685	A	29 137 220	A	24 086 630	A	7 127 896	A
\$20,000 to less than \$40,000	224 134 131	A	20 409 645	A	64 958 322	A	74 539 344	A	18 286 693	A
\$40,000 to less than \$60,000	223 667 578	A	20 608 098	A	55 444 254	A	77 444 413	A	17 621 995	A
\$60,000 to less than \$80,000	200 344 406	A	18 755 847	A	43 476 758	A	77 933 591	A	15 599 225	A
\$80,000 to less than \$100,000	139 528 451	A	8 902 066	A	34 581 907	A	55 301 077	A	9 047 886	A
\$100,000 to less than \$150,000	226 116 357	A	12 323 113	A	43 170 597	A	91 917 664	A	14 146 146	A
\$150,000 and over	129 284 321	A	4 886 304	M	13 491 014	M	59 809 412	A	4 734 981	M
Not stated	134 738 328	A	10 742 739	A	28 773 149	A	51 229 652	A	10 274 053	A
Highest level of education completed by any member of the household										
0 to 8 years or some secondary	88 617 962	A	10 965 780	A	37 192 391	A	22 504 280	A	7 665 640	A
Grade 11 to 13, graduated	172 284 588	A	14 589 759	A	32 438 663	A	61 681 081	A	16 949 806	A
Some postsecondary or postsecondary certificate or diploma	577 742 702	A	48 185 877	A	134 628 226	A	210 032 484	A	37 797 486	A
University	465 119 098	A	28 832 242	A	95 891 906	A	188 962 634	A	30 379 989	A
Not stated	65 604 453	A	5 457 838	M	12 882 035	M	29 081 304	M	4 045 954	M
Heated area of dwelling										
56 square metres or less (600 square feet or less)	51 074 758	A	5 120 179	M	19 513 432	A	15 251 843	M	1 885 390	M
56 to 93 square metres (601 to 1,000 square feet)	260 615 845	A	19 626 956	A	86 898 649	A	84 065 497	A	25 878 696	A
93 to 139 square metres (1,001 to 1,500 square feet)	478 946 772	A	41 804 908	A	107 829 520	A	160 204 960	A	46 344 052	A
139 to 186 square metres (1,501 to 2,000 square feet)	285 928 604	A	22 745 024	A	59 408 965	A	120 428 936	A	13 270 071	A
186 to 232 square metres (2,001 to 2,500 square feet)	150 897 067	A	8 191 142	A	22 852 301	A	64 346 206	A	6 364 322	M
232 or more square metres (2,501 or more square feet)	141 905 757	A	10 543 286	A	16 530 355	A	67 964 340	A		U

\* Total energy consumption (includes electricity, natural gas, heating oil, propane and wood use)

		BY TYPE OF DWELLING				
Alberta	British Columbia	Single detached houses	Double/row houses	Low-rise apartments	High-rise apartments	Mobile homes
U	U	U	U	U	U	U
12 353 125 M	11 046 436 M	56 765 823 A	23 678 450 M	13 963 953 M	4 331 635 M	U
30 447 344 A	32 424 865 A	204 482 471 A	27 243 697 A	23 455 636 A	10 844 641 M	4 612 465 M
25 039 043 A	28 677 957 A	134 461 776 A	25 313 377 A	22 373 127 A	14 484 175 A	4 227 925 M
46 390 048 A	33 519 912 A	207 622 339 A	40 065 160 A	12 170 656 M	U	U
20 006 433 A	21 334 333 A	140 936 212 A	21 401 066 A	5 779 766 M	U	U
8 799 440 M	10 044 774 M	86 056 129 A	12 105 475 M	U	U	U
21 319 703 A	24 681 409 A	162 384 106 A	23 122 683 A	6 034 282 A	4 348 500 M	U
U	6 264 984 M	35 598 744 A	U	U	U	U
9 512 394 M	14 483 785 A	— —	24 079 755 A	23 352 754 A	22 172 775 M	— —
6 684 631 M	9 516 622 A	— —	37 347 307 A	65 367 671 A	23 788 168 A	— —
— —	U	— —	U	U	U	— —
U	U	29 751 840 A	U	U	U	U
6 886 054 M	12 913 746 A	43 614 424 A	11 906 609 A	25 536 201 A	6 238 507 M	4 259 490 M
21 165 520 A	24 774 607 A	148 203 721 A	36 048 524 A	22 459 610 A	U	4 605 802 M
22 083 703 A	30 465 115 A	168 160 912 A	27 330 509 A	16 018 902 A	9 335 965 M	U
24 657 486 A	19 921 499 A	154 290 932 A	32 183 306 A	7 000 259 A	5 505 051 M	U
17 555 673 A	14 139 842 A	114 473 115 A	14 116 894 A	5 668 170 M	U	U
33 389 493 A	31 169 345 A	189 399 964 A	30 169 290 M	U	U	U
28 918 530 A	17 444 080 M	113 402 186 A	12 082 501 M	U	U	U
16 275 510 A	17 443 226 A	100 813 143 A	14 556 844 M	10 779 875 M	7 546 440 M	U
5 355 942 M	4 933 929 M	59 631 147 A	10 441 874 M	12 922 828 A	2 919 159 M	U
19 723 755 A	26 901 524 A	120 212 792 A	21 332 041 A	17 249 481 A	U	3 225 423 M
78 185 793 A	68 912 835 A	444 645 871 A	73 430 292 A	36 277 780 A	15 209 583 M	8 179 176 M
62 597 522 A	58 454 805 A	358 288 567 A	66 460 857 A	21 063 874 A	18 141 661 A	U
U	9 068 367 M	49 580 020 A	U	6 013 210 M	U	U
U	5 247 985 M	14 422 038 A	10 831 754 M	21 962 170 A	2 531 346 M	U
24 338 198 A	19 807 848 A	153 932 160 A	34 034 390 A	41 604 995 A	23 306 544 A	7 737 756 M
73 871 159 A	48 892 173 A	364 223 093 A	74 060 645 A	23 202 879 A	10 957 262 A	6 502 892 M
28 753 279 A	41 322 330 A	228 140 784 A	46 018 488 A	4 195 844 M	6 256 346 M	U
28 710 776 A	20 432 319 A	140 769 628 A	8 426 809 M	U	U	U
11 202 627 M	32 568 805 A	130 870 693 A	U	U	U	— —

### Table 11.1 - Total energy consumption\* (3/3)

[illegible]

\* Total energy consumption (includes electricity, natural gas, heating oil, propane and wood use)

[illegible]

# Table 11.2 - Total energy intensity\* (1/3)

GIGAJOULES OF ENERGY CONSUMED PER HOUSEHOLD (GJ/household)			BY REGION							
	Canada		Atlantic		Quebec		Ontario		Manitoba/ Saskatchewan	
Gigajoules per household	105.9	A	114.7	A	94.7	A	106.8	A	115.4	A
<b>Region</b>										
Canada	105.9	A								
Atlantic	114.7	A								
Quebec	94.7	A								
Ontario	106.8	A								
Manitoba/Saskatchewan	115.4	A								
Alberta	129.9	A								
British Columbia	96.9	A								
<b>Type of dwelling</b>										
Single detached house	137.9	A	125.0	A	145.2	A	135.9	A	138.3	A
Double/row house	87.2	A	93.2	A	69.1	A	99.8	A	88.0	M
Low-rise apartment	43.9	A	71.8	M	40.1	A	52.1	A	47.9	A
High-rise apartment	43.8	A		U	34.5	M	44.5	A		U
Mobile home	98.1	A	73.4	M	85.7	M		U	123.7	M
<b>Dwelling construction date</b>										
Before 1946	115.9	A	135.2	A	103.1	A	120.9	A	120.1	M
1946–1969	96.9	A	106.0	A	84.3	A	100.2	A	107.6	A
1970–1979	104.3	A	111.0	A	99.5	A	101.0	A	122.3	A
1980–1989	107.3	A	116.0	A	92.9	A	111.0	A	120.7	A
1990–1999	110.5	A	115.0	A	102.7	A	105.9	A	117.4	A
2000–2007	110.0	A	99.9	A	92.9	A	109.1	A	107.5	M
<b>Type of population centre</b>										
Urban	97.8	A	101.4	A	79.8	A	101.6	A	109.8	A
Rural	138.4	A	129.7	A	157.0	A	133.8	A	129.9	A
<b>Occupation mode</b>										
Own	126.1	A	122.3	A	128.2	A	123.8	A	133.1	A
Rent	55.2	A	76.7	A	44.9	A	61.1	A	61.2	A
Not stated		U	—	—	—	—	—	—	—	—
<b>Number of people in the household</b>										
1 member	69.5	A	90.3	A	57.6	A	69.2	A	86.6	A
2 members	106.6	A	112.7	A	97.2	A	108.3	A	115.7	A
3 members	122.0	A	119.2	A	116.0	A	119.0	A	139.2	A
4 or more members	134.9	A	142.3	A	132.2	A	128.8	A	144.9	A
Not stated	100.8	A	114.8	M	96.4	M	127.0	M		U

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: 2007 Survey of Household Energy Use



\* Total energy consumption (includes electricity, natural gas, heating oil, propane and wood use)

[illegible]

# Table 11.2 - Total energy intensity\* (2/3)

GIGAJOULES OF ENERGY CONSUMED PER HOUSEHOLD (GJ/household)			BY REGION		
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan
<b>Occupant demographics</b>					
Households with only 18 to 24 year-old members	69.8 M	U	U	U	U
Households with only 25 to 44 year-old members	73.9 A	91.2 A	61.5 M	77.9 A	100.1 A
Households with only 45 to 64 year-old members	98.5 A	108.9 A	92.8 A	96.1 A	107.2 A
Households with only 65+ year-old members	92.6 A	100.8 A	76.4 A	94.6 A	104.2 A
Households with adults and children 0 to 12 years old only	117.9 A	139.4 A	95.2 A	116.4 A	127.8 A
Households with adults and teens 13 to 19 years old only	127.9 A	120.7 A	132.7 A	121.2 A	143.4 A
Households with adults and members 0 to 12 and 13 to 19 years old	138.3 A	125.6 M	144.3 A	133.7 A	145.0 M
Other compositions	116.4 A	126.9 A	106.8 A	116.3 A	124.9 A
Not stated	100.8 A	114.8 M	96.4 M	127.0 M	U
<b>Dwelling part of a condominium</b>					
Yes	61.8 A	U	55.7 M	60.6 M	73.8 M
No	47.2 A	70.8 A	40.0 A	55.6 A	46.2 A
Don't know	U	—	U	U	—
Not stated	94.6 A	U	93.9 M	110.6 M	U
<b>Household income</b>					
Less than \$20,000	68.6 A	92.9 A	59.2 A	65.9 A	71.9 A
\$20,000 to less than \$40,000	92.6 A	108.1 A	84.8 A	93.2 A	107.7 A
\$40,000 to less than \$60,000	105.0 A	121.0 A	100.7 A	99.4 A	115.5 A
\$60,000 to less than \$80,000	110.2 A	131.9 A	104.3 A	105.2 A	133.4 A
\$80,000 to less than \$100,000	110.4 A	126.3 A	112.6 A	104.0 A	132.4 A
\$100,000 to less than \$150,000	129.9 A	120.1 A	126.3 A	131.7 A	140.0 A
\$150,000 and over	146.5 A	128.8 M	141.3 M	143.8 A	164.4 M
Not stated	100.4 A	100.7 A	86.2 A	110.6 A	99.9 A
<b>Highest level of education completed by any member of the household</b>					
0 to 8 years or some secondary	83.4 A	97.1 A	78.1 A	85.8 A	91.8 A
Grade 11 to 13, graduated	100.3 A	121.9 A	89.2 A	98.1 A	107.4 A
Some postsecondary or postsecondary certificate or diploma	111.4 A	118.1 A	103.1 A	109.9 A	122.0 A
University	108.0 A	112.9 A	95.4 A	107.6 A	128.4 A
Not stated	99.9 A	119.0 M	83.6 M	123.5 M	78.2 M
<b>Heated area of dwelling</b>					
56 square metres or less (600 square feet or less)	50.5 A	88.6 M	49.3 A	53.0 M	52.2 M
56 to 93 square metres (601 to 1,000 square feet)	75.2 A	85.4 A	79.7 A	69.1 A	88.6 A
93 to 139 square metres (1,001 to 1,500 square feet)	108.8 A	121.0 A	98.0 A	104.2 A	124.7 A
139 to 186 square metres (1,501 to 2,000 square feet)	128.3 A	126.2 A	126.2 A	128.8 A	155.0 A
186 to 232 square metres (2,001 to 2,500 square feet)	153.5 A	139.3 A	169.0 A	150.6 A	162.2 M
232 or more square metres (2,501 or more square feet)	168.5 A	151.8 A	147.9 A	173.9 A	U

\* Total energy consumption (includes electricity, natural gas, heating oil, propane and wood use)

		BY TYPE OF DWELLING				
Alberta	British Columbia	Single detached houses	Double/row houses	Low-rise apartments	High-rise apartments	Mobile homes
U	U	U	U	U	U	U
87.1 M	60.2 M	118.9 A	81.2 M	34.8 M	26.0 M	U
116.5 A	94.0 A	134.4 A	75.6 A	43.9 A	38.7 M	91.3 M
122.7 A	85.8 A	126.7 A	94.4 A	45.7 A	47.5 A	91.4 M
146.2 A	119.5 A	140.6 A	88.7 A	51.6 M	U	U
148.7 A	120.2 A	149.2 A	96.1 A	59.6 M	U	U
158.3 M	134.1 M	156.8 A	87.6 M	U	U	U
152.7 A	103.6 A	138.5 A	91.4 A	36.0 A	48.6 M	U
U	64.8 M	142.2 A	U	U	U	U
88.0 M	55.6 A	— —	87.0 A	53.3 A	53.8 M	— —
47.1 M	35.4 A	— —	77.0 A	41.4 A	38.7 A	— —
— —	U	— —	U	U	U	— —
U	U	132.9 A	U	U	U	U
89.8 M	72.4 A	122.6 A	72.5 A	43.4 A	34.6 M	93.7 M
101.5 A	86.2 A	133.0 A	80.2 A	40.8 A	U	86.9 M
121.2 A	103.2 A	135.8 A	81.6 A	46.1 A	50.3 M	U
136.1 A	90.7 A	135.1 A	94.5 A	44.4 A	33.9 M	U
124.0 A	97.3 A	129.8 A	90.7 A	48.9 M	U	U
148.5 A	114.4 A	150.2 A	90.3 M	U	U	U
167.9 A	132.4 M	157.6 A	117.0 M	U	U	U
126.4 A	84.3 A	130.6 A	89.3 M	41.0 M	57.1 M	U
99.3 M	66.3 M	132.3 A	66.4 M	39.5 A	29.4 M	U
108.7 A	100.7 A	129.9 A	85.1 A	49.8 A	U	115.5 M
131.9 A	104.3 A	141.0 A	87.0 A	46.6 A	46.8 M	94.7 M
140.3 A	96.3 A	138.5 A	92.8 A	40.0 A	39.2 A	U
U	70.9 M	134.6 A	U	39.5 M	U	U
U	32.9 M	105.8 A	73.2 M	38.6 A	18.2 M	U
92.1 A	52.9 A	118.4 A	64.7 A	42.8 A	39.6 A	97.1 M
131.3 A	100.9 A	128.9 A	92.0 A	49.3 A	46.5 A	99.7 M
143.1 A	116.1 A	144.6 A	100.2 A	56.0 M	58.1 M	U
178.8 A	126.3 A	157.1 A	127.7 M	U	U	U
207.6 M	161.9 A	174.3 A	U	U	U	— —

### Table 11.2 - Total energy intensity\* (3/3)

[illegible]

\* Total energy consumption (includes electricity, natural gas, heating oil, propane and wood use)

[illegible]

# Table 11.3 - Electricity consumption (1/3)

GIGAJOULES OF ELECTRICITY CONSUMED BY HOUSEHOLDS (GJ)					BY REGION	
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan	
Gigajoules	520 465 805 A	46 492 518 A	192 345 152 A	154 559 337 A	31 967 028 A	
<b>Region</b>						
Canada	520 465 805 A					
Atlantic	46 492 518 A					
Quebec	192 345 152 A					
Ontario	154 559 337 A					
Manitoba/Saskatchewan	31 967 028 A					
Alberta	33 977 981 A					
British Columbia	61 123 789 A					
<b>Type of dwelling</b>						
Single detached house	348 064 484 A	37 873 800 A	114 640 140 A	99 586 084 A	25 943 131 A	
Double/row house	78 074 609 A	3 658 749 A	37 940 749 A	23 700 372 A	1 199 503 M	
Low-rise apartment	59 604 726 A	2 563 118 A	34 373 534 A	12 288 400 A	2 945 341 A	
High-rise apartment	27 217 797 A	U	3 366 181 M	18 769 181 A	U	
Mobile home	7 504 190 A	1 502 380 M	2 024 549 M	U	1 115 048 M	
<b>Dwelling construction date</b>						
Before 1946	67 728 682 A	6 369 272 A	30 879 651 M	19 240 643 A	4 742 932 M	
1946–1969	121 609 482 A	8 880 267 A	46 895 403 A	38 086 357 A	9 819 877 A	
1970–1979	97 801 608 A	10 071 409 A	34 561 190 A	25 293 989 A	5 876 051 A	
1980–1989	103 576 921 A	9 165 169 A	38 818 545 A	31 988 571 A	6 003 326 A	
1990–1999	82 277 335 A	7 458 994 A	27 327 990 A	25 744 157 A	2 876 329 M	
2000–2007	47 471 777 A	4 547 407 A	13 862 374 A	14 205 620 A	2 648 513 A	
<b>Type of population centre</b>						
Urban	395 223 403 A	25 335 985 A	149 826 322 A	123 514 407 A	20 054 449 A	
Rural	125 242 402 A	21 156 533 A	42 518 830 A	31 044 930 A	11 912 579 A	
<b>Occupation mode</b>						
Own	411 426 520 A	40 474 463 A	141 732 645 A	122 364 728 A	27 462 007 A	
Rent	109 015 537 A	6 018 054 A	50 612 507 A	32 194 609 A	4 505 021 A	
Not stated	U	— —	— —	— —	— —	
<b>Number of people in the household</b>						
1 member	95 779 997 A	8 060 230 A	38 775 468 A	27 931 632 A	6 209 504 A	
2 members	180 878 566 A	18 688 340 A	69 515 784 A	48 191 113 A	9 857 338 A	
3 members	82 590 869 A	8 238 205 A	26 762 893 A	26 797 492 A	5 400 912 A	
4 or more members	142 037 247 A	9 994 383 A	50 477 531 A	45 151 142 A	8 897 576 A	
Not stated	19 179 126 A	1 511 361 M	6 813 476 M	6 487 958 M	U	

				BY TYPE OF DWELLING									
Alberta		British Columbia		Single detached houses		Double/row houses		Low-rise apartments		High-rise apartments		Mobile homes	
33 977 981	A	61 123 789	A	348 064 484	A	78 074 609	A	59 604 726	A	27 217 797	A	7 504 190	A
				348 064 484	A	78 074 609	A	59 604 726	A	27 217 797	A	7 504 190	A
				37 873 800	A	3 658 749	A	2 563 118	A		U	1 502 380	M
				114 640 140	A	37 940 749	A	34 373 534	A	3 366 181	M	2 024 549	M
				99 586 084	A	23 700 372	A	12 288 400	A	18 769 181	A		U
				25 943 131	A	1 199 503	M	2 945 341	A		U	1 115 048	M
				25 875 865	A	3 337 424	M	1 437 371	M		U	1 180 522	M
				44 145 464	A	8 237 812	A	5 996 962	A	1 277 161	M	1 466 392	M
25 875 865	A	44 145 464	A										
3 337 424	M	8 237 812	A										
1 437 371	M	5 996 962	A										
	U	1 277 161	M										
1 180 522	M	1 466 392	M										
	U	4 878 386	A	42 547 583	A		U	8 474 028	M		U		U
5 560 249	A	12 367 329	A	83 883 447	A	16 572 865	A	13 949 426	A	6 481 556	A		U
7 499 696	A	14 499 273	A	63 211 859	A	15 407 152	A	9 108 753	A	6 402 191	A	3 671 652	M
4 874 525	M	12 726 786	A	70 478 924	A	13 121 362	A	12 496 039	A	5 939 603	M	1 540 993	M
7 117 469	M	11 752 397	A	53 842 805	A	9 657 881	A	12 041 894	M	5 755 814	M	978 941	M
7 308 245	M	4 899 619	M	34 099 865	A	7 218 403	M	3 534 585	M		U		U
27 330 643	A	49 161 597	A	238 576 270	A	71 273 020	A	54 971 722	A	26 621 622	A	3 780 769	M
6 647 337	A	11 962 192	A	109 488 214	A	6 801 589	M	4 633 003	A		U	3 723 421	A
28 114 425	A	51 278 251	A	328 272 002	A	52 086 401	A	13 619 121	A	10 469 674	M	6 979 321	A
5 863 556	M	9 821 789	A	19 792 481	A	25 988 208	A	45 985 605	A	16 748 123	A		U
—	—		U	—	—	—	—	—	—	—	—		U
5 417 677	A	9 385 485	A	38 374 924	A	16 158 581	A	26 596 764	A	12 826 011	A	1 823 716	M
11 311 418	A	23 314 574	A	120 849 924	A	28 752 945	M	19 531 239	A	8 285 645	A	3 458 812	M
4 903 160	A	10 488 206	A	60 663 315	A	13 419 829	A	5 154 458	M		U		U
11 599 355	A	15 917 259	A	116 071 222	A	18 300 794	A	4 248 791	M		U		U
	U	2 018 264	M	12 105 097	A		U		U		U		U

# Table 11.3 - Electricity consumption (2/3)

GIGAJOULES OF ELECTRICITY CONSUMED BY HOUSEHOLDS (GJ)			BY REGION		
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan
<b>Occupant demographics</b>					
Households with only 18 to 24 year-old members	4 754 538 M	U	U	U	U
Households with only 25 to 44 year-old members	41 825 548 A	3 580 206 M	16 951 396 M	11 767 484 A	1 938 615 M
Households with only 45 to 64 year-old members	107 000 219 A	11 693 018 A	42 611 221 A	28 761 113 A	6 287 274 A
Households with only 65+ year-old members	77 134 085 A	7 133 350 A	26 435 878 A	23 111 996 A	5 556 985 A
Households with adults and children 0 to 12 years old only	100 197 053 A	7 232 420 A	35 475 315 A	29 731 628 A	7 058 545 A
Households with adults and teens 13 to 19 years old only	61 231 587 A	5 838 492 A	21 309 088 A	19 250 529 A	4 461 329 A
Households with adults and members 0 to 12 and 13 to 19 years old	36 673 265 A	1 731 624 M	13 209 729 A	13 571 019 A	2 150 186 M
Other compositions	72 470 384 A	7 423 656 A	28 189 553 A	21 195 373 A	2 733 216 A
Not stated	19 179 126 A	1 511 361 M	6 813 476 M	6 487 958 M	U
<b>Dwelling part of a condominium</b>					
Yes	31 666 379 A	U	7 212 856 A	15 141 922 A	U
No	75 426 510 A	3 616 089 A	36 156 741 A	24 413 342 A	3 191 663 A
Don't know	U	—	U	U	—
Not stated	17 118 223 A	U	6 492 652 M	6 051 991 M	U
<b>Household income</b>					
Less than \$20,000	42 744 369 A	4 844 692 A	20 153 671 A	9 392 696 A	2 619 284 A
\$20,000 to less than \$40,000	90 807 942 A	8 142 263 A	37 772 547 A	23 572 399 A	6 522 378 A
\$40,000 to less than \$60,000	81 977 376 A	8 825 750 A	31 054 798 A	22 446 791 A	5 587 789 A
\$60,000 to less than \$80,000	74 254 878 A	7 756 408 A	25 517 839 A	24 052 197 A	4 843 554 A
\$80,000 to less than \$100,000	54 683 470 A	3 619 092 A	21 503 547 A	17 256 715 A	2 989 945 A
\$100,000 to less than \$150,000	79 845 776 A	6 256 868 A	27 469 558 M	24 671 533 A	4 315 256 A
\$150,000 and over	42 533 394 A	2 055 735 M	9 507 128 M	16 778 530 A	1 554 781 M
Not stated	53 618 600 A	4 991 711 A	19 366 065 A	16 388 478 A	3 534 043 M
<b>Highest level of education completed by any member of the household</b>					
0 to 8 years or some secondary	38 364 384 A	4 434 161 A	20 847 771 A	7 467 288 A	2 894 218 A
Grade 11 to 13, graduated	64 436 083 A	5 830 807 A	20 053 000 A	20 065 488 A	5 821 231 M
Some postsecondary or postsecondary certificate or diploma	212 422 919 A	20 191 542 A	76 413 791 A	61 986 299 A	11 795 887 A
University	179 976 685 A	13 877 260 A	66 716 991 A	56 733 635 A	9 655 518 A
Not stated	25 265 735 A	2 158 748 M	8 313 599 M	8 306 628 M	1 800 174 M
<b>Heated area of dwelling</b>					
56 square metres or less (600 square feet or less)	27 367 973 A	1 917 465 M	15 146 136 A	6 186 787 M	573 881 M
56 to 93 square metres (601 to 1,000 square feet)	115 296 091 A	9 103 385 A	52 246 735 A	32 704 952 A	8 009 605 A
93 to 139 square metres (1,001 to 1,500 square feet)	183 305 873 A	17 770 235 A	68 535 899 A	49 258 049 A	15 939 174 A
139 to 186 square metres (1,501 to 2,000 square feet)	100 233 926 A	9 780 302 A	35 409 069 M	30 885 776 A	4 017 624 A
186 to 232 square metres (2,001 to 2,500 square feet)	46 766 617 A	3 412 197 A	11 677 239 A	16 636 479 A	2 338 007 M
232 or more square metres (2,501 or more square feet)	47 495 325 A	4 508 934 A	9 330 074 A	18 887 294 A	U



		BY TYPE OF DWELLING											
Alberta		British Columbia		Single detached houses		Double/row houses		Low-rise apartments		High-rise apartments		Mobile homes	
U		U		U		U		U		U		U	
2 724 971 M		4 862 876 M		17 637 479 A		U		7 938 853 A		3 042 404 M		U	
5 380 720 A		12 266 871 A		67 704 426 A		14 766 455 A		15 821 819 A		6 580 210 M		2 127 308 M	
4 336 947 A		10 558 929 A		45 706 855 A		9 340 976 A		12 603 471 A		7 719 872 A		1 762 912 M	
9 206 437 A		11 492 710 A		70 133 589 A		16 632 521 A		8 738 963 M		U		U	
3 706 667 A		6 665 483 A		47 453 678 A		8 329 216 M		3 649 162 M		U		U	
1 875 448 M		4 135 260 M		30 255 321 A		4 655 427 M		U		U		U	
3 885 021 A		9 043 564 A		55 351 378 A		9 600 693 A		4 301 762 A		2 381 070 M		U	
U		2 018 264 M		12 105 097 A		U		U		U		U	
1 825 966 M		6 205 263 A		— —		9 097 183 A		11 274 262 A		11 294 934 M		— —	
U		5 107 217 A		— —		16 454 707 A		44 597 403 A		14 374 399 A		— —	
— —		U		— —		U		U		U		— —	
U		U		10 999 191 M		U		U		U		U	
1 368 695 M		4 365 333 A		13 712 668 A		5 240 784 M		17 973 960 A		4 043 180 M		1 773 777 M	
5 344 226 M		9 454 130 A		50 262 324 A		16 762 652 A		14 960 690 A		6 526 868 M		2 295 409 M	
4 061 094 A		10 001 156 A		55 103 137 A		12 424 107 A		8 645 280 A		4 715 663 M		U	
4 919 425 A		7 165 455 A		53 826 193 A		11 858 973 A		4 216 359 M		3 624 219 M		U	
3 648 390 A		5 665 782 A		42 734 593 A		5 391 310 A		3 471 859 M		U		U	
6 072 100 A		11 060 462 A		59 356 821 A		U		U		U		U	
5 657 719 A		6 979 501 M		37 330 715 A		3 400 368 M		U		U		U	
2 906 332 M		6 431 971 A		35 738 032 A		6 202 882 M		7 235 957 M		3 843 746 M		U	
778 492 M		1 942 453 M		19 646 482 A		5 417 322 M		9 590 969 M		2 552 007 M		U	
3 868 467 A		8 797 091 A		41 298 617 A		7 964 232 A		9 500 118 A		4 575 818 M		1 097 298 M	
16 498 366 A		25 537 034 A		145 160 824 A		32 745 421 A		22 214 755 A		8 495 167 A		3 806 752 M	
11 765 661 A		21 227 620 A		125 366 336 A		29 774 005 M		13 582 172 A		10 612 513 A		U	
U		3 619 591 M		16 592 226 A		U		U		U		U	
U		2 474 065 M		5 830 594 M		4 843 091 M		14 632 128 A		1 414 492 M		U	
4 829 055 A		8 402 359 A		54 483 618 A		19 119 148 A		24 778 207 A		13 379 776 A		3 535 342 M	
14 319 004 A		17 483 511 A		127 353 653 A		30 049 215 A		15 264 881 A		7 746 119 M		2 892 005 M	
5 565 873 A		14 575 281 A		74 543 535 A		19 103 920 M		U		3 037 034 M		U	
5 405 168 A		7 297 528 A		42 650 983 A		3 046 265 M		U		U		U	
U		10 891 045 A		43 202 100 A		U		U		U		— —	

### Table 11.3 - Electricity consumption (3/3)

[illegible]

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# Table 11.4 - Electricity intensity (1/3)

GIGAJOULES OF ELECTRICITY CONSUMED PER HOUSEHOLD (GJ/household)			BY REGION		
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan
Gigajoules per household	40.2 A	49.4 A	58.2 A	32.2 A	38.1 A
<b>Region</b>					
Canada	40.2 A				
Atlantic	49.4 A				
Quebec	58.2 A				
Ontario	32.2 A				
Manitoba/Saskatchewan	38.1 A				
Alberta	25.8 A				
British Columbia	35.2 A				
<b>Type of dwelling</b>					
Single detached house	46.5 A	52.0 A	75.3 A	36.4 A	44.0 A
Double/row house	38.2 A	52.0 A	56.5 A	29.0 A	23.4 M
Low-rise apartment	28.0 A	30.2 A	35.2 A	26.9 A	20.4 A
High-rise apartment	24.8 A	U	33.4 M	24.2 A	U
Mobile home	43.5 A	45.7 M	58.9 M	U	58.2 M
<b>Dwelling construction date</b>					
Before 1946	41.6 A	38.4 A	57.0 M	30.4 A	41.7 M
1946–1969	36.9 A	44.6 A	52.4 A	30.2 A	35.9 A
1970–1979	39.8 A	49.7 A	56.3 A	32.0 A	37.2 A
1980–1989	43.2 A	55.2 A	63.9 A	34.4 A	38.2 A
1990–1999	42.1 A	57.8 A	62.9 A	35.0 A	38.7 M
2000–2007	39.5 A	57.7 A	65.6 A	32.1 A	42.2 A
<b>Type of population centre</b>					
Urban	38.2 A	50.8 A	56.2 A	30.8 A	33.1 A
Rural	48.5 A	47.7 A	66.5 A	39.6 A	51.2 A
<b>Occupation mode</b>					
Own	44.5 A	51.5 A	71.7 A	35.0 A	43.4 A
Rent	29.6 A	38.6 A	38.1 A	24.9 A	21.8 A
Not stated	U	— —	— —	— —	— —
<b>Number of people in the household</b>					
1 member	29.9 A	40.2 A	40.9 A	25.3 A	28.7 A
2 members	40.9 A	49.6 A	57.4 A	31.1 A	36.5 A
3 members	43.3 A	54.3 A	63.9 A	36.1 A	43.1 A
4 or more members	48.6 A	55.2 A	81.4 A	36.7 A	49.0 A
Not stated	40.4 A	47.4 M	65.4 M	39.0 M	U

[illegible]

# Table 11.4 - Electricity intensity (2/3)

GIGAJOULES OF ELECTRICITY CONSUMED PER HOUSEHOLD (GJ/household)			BY REGION		
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan
<b>Occupant demographics</b>					
Households with only 18 to 24 year-old members	38.5 M	U	U	U	U
Households with only 25 to 44 year-old members	31.2 A	58.1 M	47.7 M	22.3 A	27.5 M
Households with only 45 to 64 year-old members	39.0 A	49.6 A	52.3 A	31.2 A	37.7 A
Households with only 65+ year-old members	35.6 A	42.9 A	48.7 A	30.9 A	32.0 A
Households with adults and children 0 to 12 years old only	43.5 A	54.7 A	63.9 A	34.4 A	45.7 A
Households with adults and teens 13 to 19 years old only	45.8 A	54.1 A	75.8 A	36.0 A	44.2 A
Households with adults and members 0 to 12 and 13 to 19 years old	49.9 A	52.3 M	79.8 A	37.7 A	47.6 M
Other compositions	42.6 A	46.3 A	63.2 A	33.0 A	35.9 A
Not stated	40.4 A	47.4 M	65.4 M	39.0 M	U
<b>Dwelling part of a condominium</b>					
Yes	28.1 A	U	42.4 A	27.8 A	U
No	28.2 A	33.5 A	35.2 A	25.0 A	20.5 A
Don't know	U	—	U	U	—
Not stated	41.0 A	U	64.7 M	41.2 M	U
<b>Household income</b>					
Less than \$20,000	32.0 A	39.5 A	41.0 A	25.7 A	26.4 A
\$20,000 to less than \$40,000	37.5 A	43.1 A	49.3 A	29.5 A	38.4 A
\$40,000 to less than \$60,000	38.5 A	51.8 A	56.4 A	28.8 A	36.6 A
\$60,000 to less than \$80,000	40.9 A	54.6 A	61.2 A	32.5 A	41.4 A
\$80,000 to less than \$100,000	43.2 A	51.4 A	70.0 A	32.5 A	43.7 A
\$100,000 to less than \$150,000	45.9 A	61.0 A	80.3 M	35.3 A	42.7 A
\$150,000 and over	48.2 A	54.2 M	99.5 M	40.3 A	54.0 M
Not stated	40.0 A	46.8 A	58.1 A	35.4 A	34.4 M
<b>Highest level of education completed by any member of the household</b>					
0 to 8 years or some secondary	36.1 A	39.3 A	43.8 A	28.5 A	34.7 A
Grade 11 to 13, graduated	37.5 A	48.7 A	55.2 A	31.9 A	36.9 M
Some postsecondary or postsecondary certificate or diploma	40.9 A	49.5 A	58.5 A	32.4 A	38.1 A
University	41.8 A	54.4 A	66.4 A	32.3 A	40.8 A
Not stated	38.5 A	47.1 M	54.0 M	35.3 M	34.8 M
<b>Heated area of dwelling</b>					
56 square metres or less (600 square feet or less)	27.1 A	33.2 M	38.3 A	21.5 M	15.9 M
56 to 93 square metres (601 to 1,000 square feet)	33.3 A	39.6 A	47.9 A	26.9 A	27.4 A
93 to 139 square metres (1,001 to 1,500 square feet)	41.6 A	51.4 A	62.3 A	32.1 A	42.9 A
139 to 186 square metres (1,501 to 2,000 square feet)	45.0 A	54.3 A	75.2 M	33.0 A	46.9 A
186 to 232 square metres (2,001 to 2,500 square feet)	47.6 A	58.0 A	86.3 A	38.9 A	59.6 M
232 or more square metres (2,501 or more square feet)	56.4 A	64.9 A	83.5 A	48.3 A	U

		BY TYPE OF DWELLING				
Alberta	British Columbia	Single detached houses	Double/row houses	Low-rise apartments	High-rise apartments	Mobile homes
U	U	U	U	U	U	U
19.2 M	26.5 M	36.9 A	U	19.8 A	18.3 M	U
20.6 A	35.6 A	44.5 A	41.0 A	29.6 A	23.5 M	42.1 M
21.3 A	31.6 A	43.1 A	34.8 A	25.8 A	25.3 A	38.1 M
29.0 A	41.0 A	47.5 A	36.8 A	37.1 M	U	U
27.5 A	37.6 A	50.2 A	37.4 M	37.6 M	U	U
33.7 M	55.2 M	55.1 A	33.7 M	U	U	U
27.8 A	38.0 A	47.2 A	37.9 A	25.6 A	26.6 M	U
U	20.9 M	48.4 A	U	U	U	U
16.9 M	23.8 A	— —	32.9 A	25.7 A	27.4 M	— —
U	19.0 A	— —	33.9 A	28.3 A	23.4 A	— —
— —	U	— —	U	U	U	— —
U	U	49.1 M	U	U	U	U
17.8 M	24.5 A	38.5 A	31.9 M	30.5 A	22.4 M	39.0 M
25.6 M	32.9 A	45.1 A	37.3 A	27.2 A	25.8 M	43.3 M
22.3 A	33.9 A	44.5 A	37.1 A	24.9 A	25.4 M	U
27.2 A	32.6 A	47.1 A	34.8 A	26.8 M	22.3 M	U
25.8 A	39.0 A	48.4 A	34.6 A	30.0 M	U	U
27.0 A	40.6 A	47.1 A	U	U	U	U
32.9 A	53.0 M	51.9 A	32.9 M	U	U	U
22.6 M	31.1 A	46.3 A	38.0 M	27.5 M	29.1 M	U
14.4 M	26.1 M	43.6 A	34.5 M	29.3 M	25.7 M	U
21.3 A	32.9 A	44.6 A	31.8 A	27.4 A	27.2 M	39.3 M
27.8 A	38.6 A	46.0 A	38.8 A	28.6 A	26.1 A	44.1 M
26.4 A	35.0 A	48.5 A	41.6 M	25.8 A	22.9 A	U
U	28.3 M	45.0 A	U	U	U	U
U	15.5 M	42.8 M	32.7 M	25.7 A	10.2 M	U
18.3 A	22.4 A	41.9 A	36.3 A	25.5 A	22.7 A	44.4 M
25.5 A	36.1 A	45.1 A	37.3 A	32.4 A	32.9 M	44.3 M
27.7 A	41.0 A	47.3 A	41.6 M	U	28.2 M	U
33.7 A	45.1 A	47.6 A	46.1 M	U	U	U
U	54.1 A	57.5 A	U	U	U	— —

### Table 11.4 - Electricity intensity (3/3)

[illegible]



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# Table 11.5 - Natural gas consumption (1/3)

GIGAJOULES OF NATURAL GAS CONSUMED BY HOUSEHOLDS (GJ)					BY REGION					
	Canada		Atlantic		Quebec		Ontario		Manitoba/ Saskatchewan	
Gigajoules	585 722 846	A	U		10 711 779	A	297 059 821	A	57 731 004	A
Region										
Canada	585 722 846	A								
Atlantic		U								
Quebec	10 711 779	A								
Ontario	297 059 821	A								
Manitoba/Saskatchewan	57 731 004	A								
Alberta	130 800 411	A								
British Columbia	87 875 193	A								
Type of dwelling										
Single detached house	444 150 902	A	U		4 842 691	M	215 003 440	A	49 350 114	A
Double/row house	89 911 801	A	U			U	56 634 369	A	3 014 024	M
Low-rise apartment	26 901 870	A	U		2 870 537	M	9 929 064	M	3 864 494	M
High-rise apartment	19 786 523	M	U			U	15 247 961	M		U
Mobile home	4 971 750	M	U			U		U		U
Dwelling construction date										
Before 1946	65 623 709	A	U			U	43 641 973	A	7 556 596	M
1946–1969	137 648 765	A	U		3 425 492	M	71 866 557	A	18 690 551	A
1970–1979	100 920 767	A	U			U	43 737 816	A	11 175 936	A
1980–1989	112 112 086	A	U			U	62 065 357	A	11 280 289	A
1990–1999	96 640 628	A	U			U	44 186 558	A	5 061 627	A
2000–2007	72 776 893	A	U			U	31 561 560	A	3 966 005	M
Type of population centre										
Urban	510 425 105	A	U		10 463 271	M	266 318 258	A	45 678 799	A
Rural	75 297 741	A	U			U	30 741 563	A	12 052 205	A
Occupation mode										
Own	509 365 740	A	U		6 284 449	M	254 773 997	A	50 936 825	A
Rent	76 357 106	A	U		4 427 329	M	42 285 823	A	6 794 179	A
Not stated		U	— —		— —		— —		— —	
Number of people in the household										
1 member	90 269 619	A	U		2 801 406	M	39 976 034	A	11 618 041	A
2 members	188 879 572	A	U		3 524 469	M	96 154 651	A	19 829 748	A
3 members	108 461 783	A	U			U	54 900 675	A	10 715 479	A
4 or more members	180 410 752	A	U			U	95 992 228	A	14 337 046	A
Not stated	17 701 120	M	U			U	10 036 234	M		U
		</								

[illegible]

# Table 11.5 - Natural gas consumption (2/3)

GIGAJOULES OF NATURAL GAS CONSUMED BY HOUSEHOLDS (GJ)			BY REGION		
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan
<b>Occupant demographics</b>					
Households with only 18 to 24 year-old members	U	U	U	U	U
Households with only 25 to 44 year-old members	45 956 297 A	U	U	25 004 758 A	4 935 949 M
Households with only 45 to 64 year-old members	97 634 869 A	U	U	46 026 502 A	10 597 714 A
Households with only 65+ year-old members	87 462 126 A	U	U	39 314 241 A	11 576 055 A
Households with adults and children 0 to 12 years old only	130 481 910 A	U	U	63 145 323 A	11 342 003 A
Households with adults and teens 13 to 19 years old only	76 200 063 A	U	U	39 150 477 A	9 115 766 A
Households with adults and members 0 to 12 and 13 to 19 years old	43 360 119 A	U	U	28 378 312 A	U
Other compositions	84 076 126 A	U	U	44 522 910 A	6 022 870 M
Not stated	17 701 120 M	U	U	10 036 234 M	U
<b>Dwelling part of a condominium</b>					
Yes	35 642 761 A	U	U	17 357 791 M	U
No	43 874 521 A	U	U	28 385 480 A	3 910 336 M
Don't know	U	— —	U	U	— —
Not stated	15 495 103 M	U	U	U	U
<b>Household income</b>					
Less than \$20,000	28 505 042 A	U	U	12 260 427 A	3 731 781 M
\$20,000 to less than \$40,000	80 542 999 A	U	U	41 453 680 A	10 184 270 A
\$40,000 to less than \$60,000	88 068 952 A	U	U	41 891 392 A	11 448 354 A
\$60,000 to less than \$80,000	83 034 929 A	U	U	42 513 195 A	8 538 286 A
\$80,000 to less than \$100,000	59 197 209 A	U	U	32 069 189 A	5 723 470 A
\$100,000 to less than \$150,000	111 815 448 A	U	U	58 013 085 A	9 153 001 A
\$150,000 and over	75 355 120 A	U	U	39 270 726 A	U
Not stated	59 203 148 A	U	U	29 588 128 A	5 987 128 M
<b>Highest level of education completed by any member of the household</b>					
0 to 8 years or some secondary	22 486 184 A	U	U	11 275 217 A	3 925 152 M
Grade 11 to 13, graduated	74 465 374 A	U	U	33 473 887 A	8 966 875 M
Some postsecondary or postsecondary certificate or diploma	236 738 787 A	U	5 294 589 M	116 951 491 A	23 852 892 A
University	225 813 692 A	U	3 710 536 M	119 540 038 A	19 249 572 A
Not stated	26 218 810 A	U	U	15 819 188 M	U
<b>Heated area of dwelling</b>					
56 square metres or less (600 square feet or less)	15 420 061 M	U	U	8 813 734 M	U
56 to 93 square metres (601 to 1,000 square feet)	89 195 961 A	U	4 056 432 M	39 414 164 A	16 877 440 A
93 to 139 square metres (1,001 to 1,500 square feet)	205 442 219 A	U	3 002 887 M	93 532 820 A	27 040 201 A
139 to 186 square metres (1,501 to 2,000 square feet)	124 674 231 A	U	U	71 943 067 A	6 794 987 A
186 to 232 square metres (2,001 to 2,500 square feet)	77 725 850 A	U	U	39 142 075 A	3 940 843 M
232 or more square metres (2,501 or more square feet)	73 264 524 A	U	U	44 213 960 A	U

		BY TYPE OF DWELLING				
Alberta	British Columbia	Single detached houses	Double/row houses	Low-rise apartments	High-rise apartments	Mobile homes
U	U	U	U	U	U	U
9 405 539 M	5 756 069 M	29 269 845 A	10 009 071 M	U	U	U
23 668 254 A	14 712 224 A	75 405 090 A	10 541 439 A	5 791 175 M	4 232 345 M	U
19 786 967 A	14 216 921 A	57 885 086 A	13 424 791 M	8 556 367 A	6 214 092 M	U
34 875 324 A	19 195 974 A	99 990 924 A	22 667 464 A	U	U	U
15 642 900 A	11 449 105 A	62 650 660 A	11 485 512 M	U	U	U
U	U	34 810 958 A	U	U	U	U
17 126 176 A	13 515 186 A	69 029 699 A	11 258 513 M	U	U	U
U	U	13 784 488 M	U	U	U	U
7 632 599 M	7 907 249 A	— —	14 319 041 M	11 055 554 A	U	— —
U	4 322 163 M	— —	19 466 131 A	15 550 269 A	8 858 120 M	— —
— —	U	— —	U	U	U	— —
U	U	12 749 431 M	U	U	U	U
5 285 299 M	6 267 712 M	14 872 173 A	5 480 918 M	5 344 025 M	U	U
15 219 659 A	11 737 563 A	50 942 975 A	15 966 330 M	6 439 607 M	U	U
17 305 415 A	14 934 643 A	63 252 402 A	13 665 412 A	5 887 348 M	4 307 536 M	U
18 828 779 A	10 839 791 A	60 250 919 A	18 394 528 A	2 419 656 M	U	U
12 983 145 A	7 013 554 M	48 025 941 A	7 635 881 M	U	U	U
25 654 628 A	17 616 412 A	96 881 925 A	12 695 641 M	U	U	U
22 393 377 A	9 832 321 M	65 087 038 A	8 336 700 M	U	U	U
13 130 111 A	9 633 197 M	44 837 529 A	7 736 390 M	U	U	U
U	U	15 695 731 A	U	U	U	U
15 387 754 A	15 344 138 A	49 413 641 A	12 723 570 M	5 333 415 M	U	U
57 325 658 A	32 673 011 A	179 833 722 A	36 310 344 A	12 060 173 M	6 207 475 M	U
49 782 264 A	32 778 717 A	178 009 074 A	34 088 864 A	6 338 377 M	6 941 456 M	U
U	4 681 376 M	21 198 734 M	U	U	U	U
U	U	3 971 069 M	U	5 088 488 M	U	U
18 722 550 A	9 559 015 A	50 519 578 A	12 875 691 A	14 173 911 A	9 387 743 M	U
56 143 085 A	25 335 489 A	153 172 715 A	40 847 171 A	6 344 901 M	2 895 188 M	U
21 987 994 A	21 971 234 A	95 811 550 A	24 261 180 A	U	U	U
22 795 052 M	11 081 939 A	73 238 835 A	U	U	U	U
8 169 919 M	17 815 767 A	67 437 155 A	U	U	U	— —

### Table 11.5 - Natural gas consumption (3/3)

[illegible]

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# Table 11.6 - Natural gas intensity (1/3)

GIGAJOULES OF NATURAL GAS CONSUMED PER HOUSEHOLD USING NATURAL GAS (GJ/household)						BY REGION									
	Canada			Atlantic			Quebec			Ontario			Manitoba/ Saskatchewan		
Gigajoules per household	91.9	A		U			59.1	A		89.7	A		99.9	A	
Region															
Canada	91.9	A													
Atlantic		U													
Quebec	59.1	A													
Ontario	89.7	A													
Manitoba/Saskatchewan	99.9	A													
Alberta	110.6	A													
British Columbia	80.1	A													
Type of dwelling															
Single detached house	102.5	A		U			98.7	M		98.8	A		107.4	A	
Double/row house	80.4	A		U				U		83.6	A		73.2	M	
Low-rise apartment	50.2	A		U			38.3	M		45.1	M		65.7	M	
High-rise apartment	59.9	M		U				U		65.4	M			U	
Mobile home	84.3	M		U				U			U			U	
Dwelling construction date															
Before 1946	94.9	A		U				U		94.5	A		105.9	M	
1946–1969	89.2	A		U			51.9	M		87.6	A		98.9	A	
1970–1979	87.8	A		U				U		85.3	A		103.6	A	
1980–1989	95.3	A		U				U		97.0	A		100.2	A	
1990–1999	91.4	A		U				U		85.1	A		93.7	A	
2000–2007	95.9	A		U				U		88.5	A		92.3	M	
Type of population centre															
Urban	91.0	A		U			59.0	M		89.1	A		98.7	A	
Rural	97.9	A		U				U		95.2	A		105.1	A	
Occupation mode															
Own	97.1	A		U			75.8	M		94.9	A		105.4	A	
Rent	67.6	A		U			45.1	M		67.3	A		71.9	A	
Not stated		U		—	—		—	—		—	—		—	—	
Number of people in the household															
1 member	75.0	A		U			43.8	M		71.3	A		88.6	A	
2 members	90.0	A		U			60.3	M		89.2	A		97.5	A	
3 members	98.9	A		U				U		96.0	A		106.7	A	
4 or more members	100.2	A		U				U		95.9	A		109.1	A	
Not stated	100.8	M		U				U		101.0	M			U	



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# Table 11.6 - Natural gas intensity (2/3)

GIGAJOULES OF NATURAL GAS CONSUMED PER HOUSEHOLD USING NATURAL GAS (GJ/household)				BY REGION	
	Canada	Atlantic	Quebec	Ontario	Manitoba/ Saskatchewan
<b>Occupant demographics</b>					
Households with only 18 to 24 year-old members	U	U	U	U	U
Households with only 25 to 44 year-old members	79.1 A	U	U	76.1 A	96.6 M
Households with only 45 to 64 year-old members	85.9 A	U	U	85.8 A	94.7 A
Households with only 65+ year-old members	84.9 A	U	U	83.0 A	96.7 A
Households with adults and children 0 to 12 years old only	96.8 A	U	U	90.6 A	98.9 A
Households with adults and teens 13 to 19 years old only	100.6 A	U	U	99.8 A	110.8 A
Households with adults and members 0 to 12 and 13 to 19 years old	98.4 A	U	U	97.0 A	U
Other compositions	96.1 A	U	U	93.5 A	108.0 M
Not stated	100.8 M	U	U	101.0 M	U
<b>Dwelling part of a condominium</b>					
Yes	66.2 A	U	U	68.4 M	U
No	58.6 A	U	U	61.7 A	62.5 M
Don't know	U	—	U	U	—
Not stated	101.6 M	U	U	U	U
<b>Household income</b>					
Less than \$20,000	77.0 A	U	U	70.8 A	85.6 M
\$20,000 to less than \$40,000	83.6 A	U	U	83.6 A	90.6 A
\$40,000 to less than \$60,000	86.7 A	U	U	81.7 A	97.4 A
\$60,000 to less than \$80,000	85.8 A	U	U	84.1 A	107.4 A
\$80,000 to less than \$100,000	85.1 A	U	U	82.7 A	100.6 A
\$100,000 to less than \$150,000	102.4 A	U	U	102.9 A	105.8 A
\$150,000 and over	112.5 A	U	U	107.0 A	U
Not stated	98.5 A	U	U	96.7 A	104.2 M
<b>Highest level of education completed by any member of the household</b>					
0 to 8 years or some secondary	80.3 A	U	U	82.5 A	89.0 M
Grade 11 to 13, graduated	89.3 A	U	U	88.9 A	87.1 M
Some postsecondary or postsecondary certificate or diploma	90.5 A	U	63.6 M	86.9 A	103.2 A
University	95.1 A	U	60.9 M	92.6 A	105.0 A
Not stated	96.7 A	U	U	98.1 M	U
<b>Heated area of dwelling</b>					
56 square metres or less (600 square feet or less)	60.1 M	U	U	61.0 M	U
56 to 93 square metres (601 to 1,000 square feet)	70.8 A	U	51.2 M	65.6 A	88.4 A
93 to 139 square metres (1,001 to 1,500 square feet)	88.4 A	U	60.1 M	83.2 A	102.6 A
139 to 186 square metres (1,501 to 2,000 square feet)	98.1 A	U	U	98.2 A	114.8 A
186 to 232 square metres (2,001 to 2,500 square feet)	114.6 A	U	U	108.4 A	128.8 M
232 or more square metres (2,501 or more square feet)	125.1 A	U	U	126.7 A	U

		BY TYPE OF DWELLING				
Alberta	British Columbia	Single detached houses	Double/row houses	Low-rise apartments	High-rise apartments	Mobile homes
U	U	U	U	U	U	U
91.4 M	74.6 M	93.7 A	74.6 M	U	U	U
99.7 A	71.4 A	96.6 A	71.3 A	52.7 M	52.9 M	U
108.4 A	71.0 A	102.9 A	82.4 M	50.6 A	52.2 M	U
114.9 A	92.1 A	103.1 A	84.4 A	U	U	U
122.5 A	82.9 A	111.8 A	73.7 M	U	U	U
U	U	103.4 A	U	U	U	U
124.4 A	81.0 A	103.8 A	83.7 M	U	U	U
U	U	107.6 M	U	U	U	U
88.4 M	49.7 A	— —	74.8 M	54.6 A	U	— —
U	55.0 M	— —	77.5 A	48.2 A	50.6 M	— —
— —	U	— —	U	U	U	— —
U	U	109.7 M	U	U	U	U
99.0 M	79.8 M	95.1 A	78.4 M	52.0 M	U	U
95.8 A	75.7 A	95.8 A	81.6 M	48.5 M	U	U
106.8 A	80.0 A	99.6 A	81.7 A	45.6 M	58.5 M	U
108.7 A	68.9 A	97.9 A	75.5 A	44.0 M	U	U
101.1 A	68.8 M	91.2 A	69.7 M	U	U	U
116.2 A	85.6 A	108.1 A	77.2 M	U	U	U
135.8 A	91.8 M	117.4 A	98.9 M	U	U	U
109.0 A	92.3 M	107.5 A	92.5 M	U	U	U
U	U	97.3 A	U	U	U	U
105.5 A	83.7 A	98.5 A	85.2 M	52.8 M	U	U
109.3 A	77.4 A	100.0 A	78.9 A	53.4 M	60.6 M	U
118.2 A	80.9 A	107.1 A	79.5 A	43.5 M	52.7 M	U
U	87.1 M	101.6 M	U	U	U	U
U	U	80.1 M	U	48.8 M	U	U
91.2 A	55.8 A	84.8 A	70.9 A	49.9 A	55.2 M	U
105.4 A	72.9 A	96.1 A	79.8 A	50.5 M	42.9 M	U
111.6 A	84.2 A	103.0 A	83.8 A	U	U	U
145.8 M	89.7 A	116.8 A	U	U	U	U
189.6 M	105.0 A	125.8 A	U	U	U	— —

### Table 11.6 - Natural gas intensity (3/3)

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# Appendix A



# Methodology



## 1.0 Data validation and merging

### 1.1 Background

The Households and the Environment Survey (HES) survey data were collected in three separate phases.

Phase One collected survey data through computer-assisted telephone interviews with dwelling owners and renters. This phase was the first part of the HES. The HES questionnaire covered a range of topics including household energy use characteristics; water, fertilizer and pesticide use; recycling; composting; indoor environment; vehicles and transportation decisions; gas-powered equipment; purchasing decisions; and air quality.

This detailed statistical report presents only HES data concerning energy use. For more information on HES, contact Statistics Canada.

Phase Two focused on the factors affecting energy use in households. This phase was the second part of the HES and entitled Households and the Environment Survey: Energy Use (HES-Energy Use). The HES-Energy Use collected survey data through a paper mail-back questionnaire sent to dwelling owners and renters. Also, landlords of rental dwellings and property managers of condominiums were sent questionnaires in an attempt to obtain the most accurate responses possible. Landlords and property managers were asked questions only about dwelling heating and cooling equipment, dwelling features and conditions, and energy use.

Phase Three gathered individual household energy consumption data for 2007. These data were obtained either through the household providing the data or through the energy supplier(s) for the household.

For the purposes of this report, Phase Two and Three and energy use questions from Phase One are referred to as SHEU-2007. Statistics Canada conducted Phase Two and Three on behalf of Natural Resources Canada (NRCan) and refers to these phases as the "Households and the Environment Survey: Energy Use."

Data from all three phases are assumed to be for the calendar year 2007.

Data estimates in this report were created by merging data from all three phases. Natural Resources Canada merged the data to improve the data estimates for SHEU-2007.

### 1.2 Data validation

Because the same sample of households responded to all three phases of the survey, it was assumed that the responses to common question variables from all three phases would be consistent. However, data validation revealed that there were significant inconsistencies in household responses between the phases, as well as within an individual phase for common question variables.

An example of an inconsistency between phases is when a household responded in Phase One that their main heating equipment was a natural gas furnace, but responded "don't know" in Phase Two for their main heating equipment and "not stated" for the energy source.

An example of an inconsistency within an individual phase is when a household responded in Phase Two that they "do not use a computer in your dwelling" but "not stated" for the number of computers used and "5 years or less" for the age of the most frequently used computer.

### 1.3 Data merging

The inconsistencies found in the SHEU-2007 data were addressed during the data merging process by using logic flows.

An example of a logic flow to address an inconsistency between phases is accepting a "certain" response rather than an "uncertain" response (i.e. "don't know" and "not stated").

For example, if a household responded in Phase One that their main heating equipment was a natural gas furnace but responded "don't know" in Phase Two for their main heating equipment and "not stated" for the energy source, the data merging would code the household as having a natural gas furnace. In this example, the "certain" response of natural gas furnace is accepted rather than the "uncertain" response of "don't know" for the main heating equipment and "not stated" for the energy source.

An example of a logic flow to address an inconsistency within an individual phase is determining a topic entry question and either permitting or not permitting responses to follow-up questions based on the response to the topic entry question.

For example, if a household responded in Phase Two that they "do not use a computer in your dwelling" but



responded “not stated” for the number of computers used and “5 years or less” for the age of the most frequently used computer, the data merging would code the household as “do not use a computer in your dwelling,” the number of computers used as zero and a valid skip for the age of the most frequently used computer.

In this example, the question “do you use a computer in your dwelling” was determined to be the topic entry question for computers. A negative response to this question does not permit a household to respond to any follow-up computer questions, whereas a positive response would have permitted a household to respond to follow-up computer questions.

Generally for common question variables, landlord/property manager responses concerning dwelling characteristics (e.g. heating equipment) were accepted rather than dwelling occupant responses. Also, Phase Two responses were accepted rather than Phase One responses unless a topic entry question in Phase One produced significantly fewer “uncertain” responses.

The data presented in this report represent data estimates from the final SHEU-2007 database (i.e. after data validation and merging).

For more information on the data validation and merging process, contact NRCan.

### 1.4 Landlord/property manager survey responses

The Phase Two questionnaire (see Appendix C) was designed to ask questions to the most knowledgeable individual possible regarding household practices and dwelling characteristics.

It was determined that dwelling renters would be the most knowledgeable individuals to ask questions about household practices and that landlords/property managers would be the most knowledgeable individuals to ask questions about dwelling characteristics. Responses for an individual household from both the dwelling renter and their landlord/property manager would provide coverage for the entire Phase Two questionnaire.

However, the response rate for the landlord/property manager Phase Two paper mail-back questionnaire was lower than anticipated. Consequently, there is incomplete coverage of dwelling characteristic data in the final SHEU-2007 database for rented dwellings.

Statistics Canada chose to code all responses from unreturned landlord/property manager questionnaires as valid skips in the original Phase Two microdata file. As a result, these responses from unreturned questionnaires have remained as valid skips in the final SHEU-2007 database.

## 2.0 Households and the Environment Survey: Energy Use, 2007

### 2.1 Background

The 2007 Households and the Environment Survey (HES) was conducted in two parts (see Section 1.1).

Part One was a short telephone interview to supplement the Canadian Community Health Survey (CCHS).

Part Two was the Households and the Environment Survey: Energy Use (HES-Energy Use), which is a paper mail-back questionnaire (with an Internet option). The HES-Energy Use was formerly known as the Survey of Household Energy Use.

The telephone survey focused on the behaviours and practices of the household relating to the environment.

The topics in the HES-Energy Use included dwelling characteristics, household appliances, electrical devices, heating and cooling equipment, and the amounts of energy consumed by the household during the 2007 calendar year.

The objective of the HES-Energy Use is to provide Natural Resources Canada (NRCan) with information on energy use in Canadian households.

The HES-Energy Use profiles

- the use of selected energy-consuming equipment and appliances
- energy-related characteristics of dwellings
- household demographics
- patterns of behaviour related to consumption
- amounts of energy consumed during the reference period

Data on the age and size of the dwelling, dwelling conditions, improvements and types of heating and cooling equipment were collected in the HES-Energy Use.

The HES-Energy Use data will allow the Office of Energy Efficiency of NRCan to determine average levels of household energy intensity (amount of energy used in a certain area) and compare the intensity levels for the type of house, house area, house age and number of storeys, and for population centres, etc. These data can also be divided into energy source subcategories for efficiency comparisons.

As a result, the data will allow NRCan to

- improve its understanding of household energy use (trends)
- assess energy efficiency potential in the residential sector
- analyze and better understand the effects of energy efficiency measures being considered for the future
- review existing energy efficiency programs
- assist with the implementation of energy-consumption regulations for household appliances. The regulations set minimum performance standards to eliminate less energy-efficient products from the market.

As well, the HES-Energy Use data will be used for deciding where future policy should be directed to improve Canada's energy efficiency in an effort to reduce greenhouse gas emissions.

## 2.2 Objectives

The objectives of the HES-Energy Use were to collect data on energy use characteristics and energy consumption for occupied dwellings in Canada.

The energy use data, coupled with energy consumption data obtained from respondents' energy bills or directly from energy suppliers, can be used to assess the effectiveness of energy efficiency programs.

The HES-Energy Use also covers the themes of dwelling characteristics, household appliances, electrical devices, heating and air-conditioning equipment and energy consumption.

Additionally, information collected through the telephone survey has been added to the energy use supplement file (for those who agreed to share the information with NRCan).

Phase 1 of the HES covers the following themes:

- basic dwelling and household characteristics
- heating equipment and energy conservation practices
- water use and water conservation practices
- use of fertilizers and pesticides
- recycling and composting activities
- household behaviours relating to air quality
- use of recreational vehicles and gas-powered equipment
- motor vehicles and transportation to work
- purchasing decisions

This telephone survey was conducted as a supplement to the CCHS for respondents who were interviewed between January and June 2007. For a detailed description of the 2007 HES, see the *HES 2007 Microdata User Guide*.

## 2.3 Survey methodology

The HES was administered first, from October 2007 to February 2008, to a subsample of the dwellings that were part of the CCHS Cycle 4.1 between January 1 and June 30, 2007. Therefore, the HES sample design is closely tied to that of the CCHS. The HES respondents were later sent a paper mail-back questionnaire for the HES-Energy Use.

### 2.3.1 Canadian Community Health Survey sample design

The CCHS data are collected from people age 12 and over who live in private dwellings in the 10 provinces and 3 territories. Only this phase includes the territories. Specifically excluded from the survey are residents of Indian reserves and crown land, full-time members of the Canadian Forces, prison inmates and residents of isolated areas. The CCHS represents approximately 98 percent of the Canadian population age 12 and over.

To provide reliable estimates to the 121 health regions (HR) and stay within the budget allocated to the CCHS (Cycle 4.1), a sample of 130 000 respondents was required. The sample allocation strategy had three steps and gave relatively equal importance to the HRs and the provinces and territories.

In the first two steps, the sample was allocated among the provinces and territories according to their population size and the number of HRs they contain. In the third step, the sample for each province and territory was allocated among its HRs proportionally to the square root of the estimated population in each HR.

The CCHS used three sampling frames to select the sample of households:

- 50 percent of the sample of households came from an area frame
- 49 percent came from a list frame of telephone numbers
- 1 percent came from a random digit dialling (RDD) sampling frame

For most of the HRs, 50 percent of the sample was selected from the area frame and 50 percent from the list frame of telephone numbers.

The CCHS used the area frame designed for the Canadian Labour Force Survey (LFS) as its primary frame. The sampling plan of the LFS is a multistage stratified cluster design in which the dwelling is the final sampling unit.

In the first of two stages, homogeneous strata were formed and independent samples of clusters were drawn from each stratum. In the second stage, dwelling lists were prepared for each cluster and dwellings, or households, were selected from the lists.

For the purpose of the plan, each province and territory was divided into three types of regions: major urban centres, cities and rural regions.

Geographic or socio-economic strata are created within each major urban centre. Within the strata, dwellings are regrouped to create clusters. Some urban centres have separate strata for apartments or for census enumeration areas (EA) in which the average household income is high. In each stratum, six clusters or residential buildings (sometimes 12 or 18 apartments) are chosen by a random sampling method with a probability proportional to size (PPS), the size of which corresponds to the number of households. The number six was used throughout the sample design to allow a one-sixth rotation of the sample every month for the LFS.

The other cities and the rural regions are stratified first on a geographical basis and then according to socio-economic characteristics. In the majority of strata, six clusters (usually census EAs) are selected by using the PPS method. Where there is low population density, a three-step plan is used in which two or three primary sampling units, which normally correspond to groups of EAs, are selected and divided into clusters, six of which are sampled. The final sample is obtained using a systematic sampling of dwellings.

### 2.3.2 Sample size by province for the Households and the Environment Survey: Energy Use

The HES sample consisted of a stratified random sample of the CCHS Cycle 4.1 (January to June 2007) responding dwellings in the provinces, but excluded the territories. The sample for the HES-Energy Use consisted of all the HES responding dwellings. Note that the information collected from the respondents who did not accept to share their data with the client, NRCan, does not appear in the microdata share file.

The following table shows the number of responding dwellings in the microdata share file of the 2007 HES-Energy Use.

**Sample size**

Province	Number of dwellings
Newfoundland and Labrador	262
Prince Edward Island	188
Nova Scotia	397
New Brunswick	398
Quebec	2267
Ontario	3270
Manitoba	517
Saskatchewan	478
Alberta	789
British Columbia	1207
<b>Canada</b>	<b>9773</b>

### 2.4 Data collection

The respondents were first contacted between January and June 2007 through the CCHS. They were then surveyed for the telephone portion of the HES between October 2007 and February 2008. The last phase was to ask households that responded to the telephone portion of the survey to complete a paper mail-back questionnaire on energy use (HES-Energy Use). An option to complete the survey online was also offered to all participants, and 4 percent of the respondents chose this mode of collection. Data collection for the HES-Energy Use occurred between November 2007 and April 2008.

The last step of the Survey of Household Energy Use was to collect energy consumption data from energy suppliers. This step was coordinated by the Statistics Canada head office and involved gathering electricity, natural gas, heating oil and propane consumption data for the 2007 reference year directly from suppliers for account holders who had given their consent.

## 2.5 Data processing

This section presents a brief summary of the processing steps involved in the production of the final microdata share file.

### 2.5.1 Data capture

The data was captured by using an intelligent character recognition (ICR) system. The ICR data capture consists of two main steps. The first step is to scan the questionnaires and create a digital image. In the second step, predefined areas of these digital images are examined for the presence of text.

For the HES, the system scans a pre-identified area of the questionnaire to determine if there are data in this area. The images that have data in the area are sent for manual, or key from image (KFI), data capture. The blank fields are automatically captured as null.

In addition, Statistics Canada has developed a quality control function to measure and ensure the quality of the work done by both the ICR system and the KFI capture.

### 2.5.2 Editing

The first type of error treated was errors in questionnaire flow, where questions that did not apply to the respondent (and should not have been answered) were answered. In this case, a computer edit automatically eliminated superfluous data by following the flow of the questionnaire implied by answers to previous and, in some cases, subsequent questions.

The second type of error treated was a lack of information in questions that should have been answered. For this type of error, a non-response or “not-stated” code was assigned to the question.

### 2.5.3 Coding of open-ended questions

A few questions were in an open-ended format. These questions required coding for inclusion in the data file. The open-ended questions related to responses to the “other” category throughout the questionnaire.

### 2.5.4 Imputation

Imputation is the process that supplies valid values for those variables that have been identified for a change either because of invalid information or because of missing information. The new values are supplied in a way that preserves the underlying structure of the data and ensures that the resulting records will pass all edits.

The objective is not to reproduce the true microdata values but to establish internally consistent data records that yield good aggregate estimates.

We can distinguish among three types of non-response:

- Complete non-response is when the respondent does not provide the minimum set of answers. These records are dropped and accounted for in the weighting process.
- Item non-response is when the respondent does not provide an answer to one question but goes on to the next question. These responses are usually handled using the “not-stated” code or are imputed.
- Partial non-response is when the respondent provides the minimum set of answers but does not finish the interview. These records can be handled either as complete non-response or multiple item non-response.

For the HES-Energy Use, donor imputation was used to complete missing data for some questions that were missing data and for partial non-responses.

### 2.5.5 Creation of derived variables

Several data items on the microdata file have been derived by combining questions on the questionnaire to facilitate data analysis.

### 2.5.6 Weighting

The weighting phase is a step in which the weight is calculated and assigned to each record. The principle behind estimation in a probability sample is that each person in the sample “represents,” in addition to himself or herself, several other people who are not in the sample. This is the weight of the sample.

For example, in a simple random 2 percent sample of the population, each person in the sample represents 50 people in the population.

This weight appears in the microdata file and **must** be used to derive meaningful estimates from the survey.

## 2.6 Data quality

### 2.6.1 Response rates

The following table summarizes the response rates to the CCHS, the HES and the HES-Energy Use. Because the SHUE does not examine the territories, they are omitted from the following table. This is why the CCHS table does not sum.

Province	CCHS selected households	CCHS response rate (%)*	HES selected dwellings	HES responding dwellings	HES response rate (%)**	HES (Energy Use) responses	HES (Energy Use) response rate (%)	HES(Energy Use) responding + sharing dwellings	HES (Energy Use) response + share rate (%)***
Newfoundland and Labrador	1 167	89.1	870	639	73.4	299	46.8	262	41.0
Prince Edward Island	839	86.4	609	431	70.8	218	50.6	188	43.6
Nova Scotia	1 481	86.7	1 106	802	72.5	453	56.5	397	49.5
New Brunswick	1 634	85.6	1 227	831	67.7	450	54.2	398	47.9
Quebec	7 749	84.0	6 198	4 597	74.2	2 629	57.2	2 267	49.3
Ontario	14 411	83.5	10 173	7 271	71.5	3 753	51.6	3 270	45.0
Manitoba	2 165	88.3	1 752	1 313	74.9	610	46.5	517	39.4
Saskatchewan	2 237	89.3	1 586	1 181	74.5	546	46.2	478	40.5
Alberta	3 709	85.4	2 642	1 900	71.9	905	47.6	789	41.5
British Columbia	5 192	82.1	3 794	2 725	71.8	1 378	50.6	1 207	44.3
<b>Canada</b>	<b>40 584</b>	<b>84.6</b>	<b>29 957</b>	<b>21 690</b>	<b>72.4</b>	<b>11 241</b>	<b>51.8</b>	<b>9 773</b>	<b>45.1</b>

\* The CCHS response rate is the number of CCHS responding households as a percentage of the number of CCHS selected households for January 1 to June 30, 2007.

\*\* The HES response rate is the number of HES responding dwellings as a percentage of the number of HES selected dwellings.

\*\*\* The HES-Energy Use response + share rate is the number of HES-Energy Use responding dwellings that agreed to share their information with NRCan, as a percentage of the number of HES-Energy Use selected dwellings.

### 2.6.2 Survey errors

The estimates derived from this survey are based on a sample of dwellings. Somewhat different estimates might have been obtained if a complete census had been taken using the same questionnaire, interviewers, supervisors, processing methods, etc. as those used in the survey. The difference between the estimates obtained from the sample and those resulting from a complete count taken under similar conditions is called the sampling error of the estimate.

Errors that are not related to sampling may occur at almost every phase of a survey operation. Interviewers may misunderstand instructions, respondents may make errors in answering questions, the answers may be incorrectly entered on the questionnaire, and errors may be introduced in the processing and tabulation of the data. These are examples of non-sampling errors.

In a large number of observations, randomly occurring errors will have little effect on estimates derived from

the survey. However, errors occurring systematically will contribute to biases in the survey estimates. Considerable time and effort were taken to reduce non-sampling errors in the survey.

Quality assurance measures were implemented at each step of the data collection and the processing cycle to monitor the quality of the data. These measures include

- the use of highly skilled interviewers
- extensive training of interviewers with respect to the survey procedures and questionnaire
- observation of interviewers to detect problems of questionnaire design or misunderstanding of instructions
- procedures to ensure that data capture errors were minimized
- coding and edit quality checks to verify the processing logic

### 2.6.2.1 The frame

Because the 2007 HES (and indirectly the 2007 HES-Energy Use) was a supplement to the CCHS Cycle 4.1, the frame used was the CCHS frame. The CCHS frame was based on both the LFS area frame and a telephone frame including an RDD component. The CCHS survey coverage was very good (98 percent of households in Canada). It is unlikely that the 2 percent exclusion introduces any significant bias into the survey data.

It is important to note that the HES interview took place between 3 and 14 months after the CCHS Cycle 4.1 interview and that the HES-Energy Use questionnaire was sent to a HES respondent only after the HES interview took place.

### 2.6.2.2 Data collection

The survey used a paper mail-back methodology for collection. This was the HES-Energy Use. Respondents were asked to self-report the required information. Instructions and help text were provided for questions that needed clarifications, and a helpline was also established to answer questions from the respondents about how to complete the survey. Non-respondents to the mail-back portion of the survey were contacted by telephone up to 5 times. Also, a reminder card was sent to non-respondents at the midpoint of the collection period.

### 2.6.2.3 Data processing

Data processing of the HES-Energy Use included several steps, such as verification, coding, editing, imputation and estimation. At each step, a picture of the output file is taken so that an easy verification can be made by comparing files at the current and previous step. This verification practice greatly improved the data processing stage.

Because this survey was conducted on paper, data processing was thorough to eliminate all potential errors:

- Flows and inconsistencies were fixed.
- Don't know, not stated and valid skip entries were properly identified.
- Limits were set for some numerical values such as air-conditioner cooling capacity.
- Derived variables were created.
- Imputation addressed missing energy use data and outliers.

Quality control was done during data capture, and batches with higher than expected error rates were captured again. This process yielded an average outgoing quality limit of less than 0.1 percent.

### 2.6.2.4 Non-response

A major source of non-sampling errors in surveys is the effect of non-response on the survey results. The extent of non-response varies from partial non-response (failure to answer just one or some questions) to total non-response. Total non-response occurred because no member of the household living in the dwelling was able to provide the information or the respondent refused to participate in the survey. Total non-response was handled by adjusting the weight of dwellings that responded to the survey to compensate for those that did not respond.

In most cases, partial non-response to the survey occurred when the respondent did not understand or misinterpreted a question, refused to answer a question or could not recall the requested information.

In partial non-response cases, imputation was performed for certain variables (mainly the energy consumption variables) by using various imputation methods based on other data reported by the respondent or based on the data reported by other respondents with similar characteristics.

Most of the partial non-response cases were cases in which the energy consumption was reported for most, but not all, days of the reference period.

For example, if the year's electricity consumption was reported for the period January 6 to December 31, 2007, the electricity consumption was imputed for the missing days (January 1 to 5). In such a case, missing days were imputed using the data that were reported by the respondent for the other days of the reference period.

Another frequent case of partial non-response is when a respondent reported energy consumption for all months but one. Again, the data reported by the respondent are used to impute the missing month.

The imputation process worked well and helped to fill incomplete responses.

### 2.6.2.5 Measurement of the sampling error

This section of the documentation outlines the measures of sampling error that Statistics Canada commonly uses and that it urges users producing estimates from this microdata file to use also. It is an unavoidable fact that estimates from a sample survey are subject to sampling error. Therefore, sound statistical practice requires researchers to state the magnitude of this sampling error.



The basis for measuring the potential size of sampling errors is the standard error of the estimates derived from survey results.

However, because of the large variety of estimates that can be produced from a survey, the standard error of an estimate is usually expressed relative to the estimate to which it pertains. This resulting measure, known as the coefficient of variation of an estimate, is obtained by dividing the standard error of the estimate by the estimate itself and is expressed as a percentage of the estimate.

For example, if, based upon the survey results, one estimates that 34.9 percent of households had a lawn and used chemical fertilizers in 2005, and this estimate has a standard error of 0.0051, the coefficient of variation of the estimate is calculated as

$$\frac{0.0051}{0.349} \times 100\% = 1.46\%$$

## 2.7 Weighting

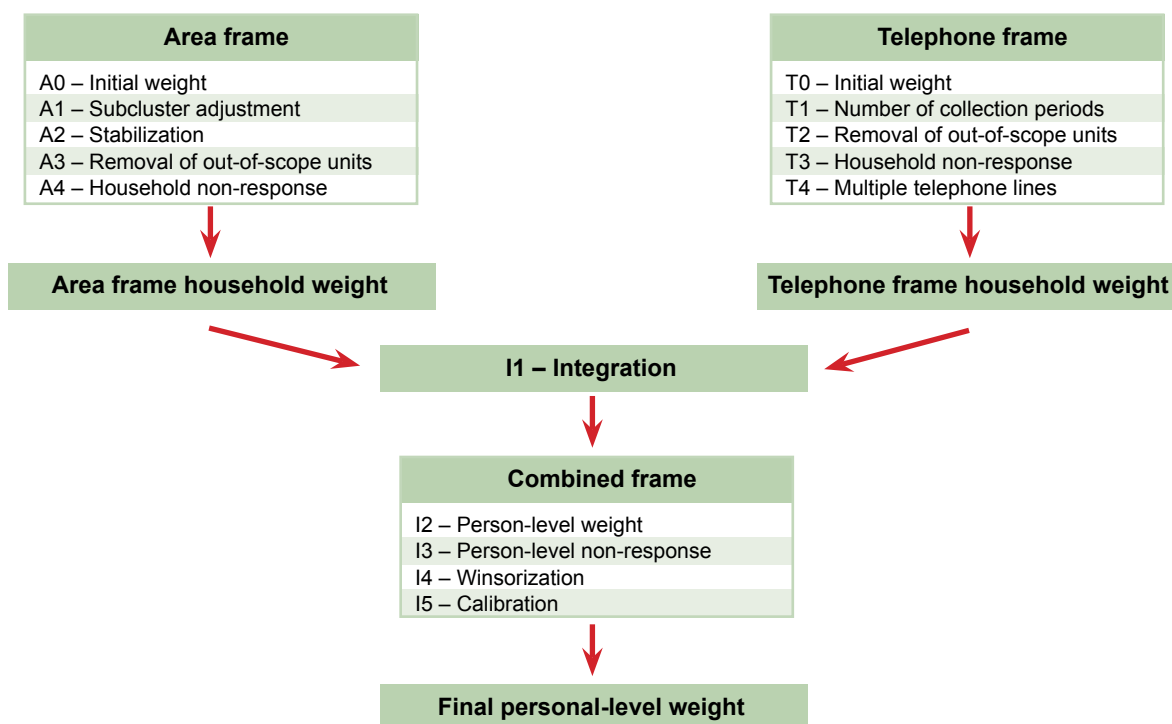
Because the HES and the HES-Energy Use used a subsample of the CCHS sample, the derivation of weights for the survey records is clearly tied to the weighting procedure used for the CCHS. The CCHS weighting procedure is briefly described below.

### 2.7.1 Weighting procedures for the Canadian Community Health Survey

The CCHS has access to three sampling frames for its sample selection: an area frame acting as the primary frame and two frames formed of telephone numbers complementing the area frame. Because only minor differences differentiate the two telephone frames in terms of weighting, they are treated together as one and referred to as being part of the telephone frame.

The weighting strategy was developed by treating both the area and telephone frames independently. Household-level weights resulting from these two frames are then combined into a single set of household weights through a step called “integration.” After applying person-level weights and some further adjustments, this integrated weight becomes the final weight. Note that the CCHS household subweight (after the I1 Integration step) corresponds to the initial HES weight.

Diagram A: CCHS weighting strategy overview



The CCHS household subweight (required for the HES weighting) is available after the steps A0 to A4 (for the area frame), T0 to T4 (for the telephone frame) and I1 (integration) are completed. The CCHS weighting steps are described below.

#### **A0 – Initial weight**

The weighting on the area frame sample begins with a weight provided by the LFS. The initial weight A0 is based on the LFS design because the CCHS sample is derived from the LFS. The LFS design consists of a sample of dwellings within the selected clusters of the LFS strata.

#### **A1 – Subcluster adjustment**

In clusters that experience significant growth, a subsampling method is used to ensure that the workload of the interviewers is kept at a reasonable level. This method can consist of subsampling from the selected dwellings, dividing the cluster into subclusters or reclassifying the cluster as a stratum and creating new clusters within the stratum. In all these cases, a subsample adjustment is calculated and applied to the CCHS weight. This adjustment is applied to weight A0 to produce weight A1.

#### **A2 – Stabilization**

In some HRs, the increase of the sample size results in a significantly larger sample than necessary. Stabilization is used to reduce the sample size to the desired level. The stabilization process consists of randomly subsampling dwellings at the HR level from the dwellings originally obtained within each cluster. An adjustment factor that represents the effect of this stabilization is calculated to adjust the probability of selection appropriately. This factor, multiplied by weight A1, produces weight A2.

#### **A3 – Removal of out-of-scope units**

Among all dwellings sampled, a certain proportion is identified during collection as being out-of-scope. Out-of-scope cases for the CCHS include dwellings that are demolished or under construction, vacant, seasonal or secondary; and institutions. These dwellings and their associated weight are removed from the sample. This adjusted sample consists of and represents in-scope dwellings. These remaining dwellings maintain the same weight as in the previous step, which is now called A3.

#### **A4 – Household non-response**

During collection, a certain proportion of sampled households inevitably result in non-response. Weights of the non-responding households are redistributed to responding households within response homogeneity groups (RHGs).

To create the response groups, a scoring method based on logistic regression models is used to determine the propensity to respond. These response probabilities are used to divide the sample into groups with similar response properties.

The information available about non-respondents is limited, so the regression model uses characteristics such as

- collection period
- geographic information
- paradata, which includes the number of contact attempts
- the time and day of the contact attempt
- whether the call was on a weekend or weekday

An adjustment factor is calculated within each class as follows:

$$\frac{\text{Sum of weight A3 for all households}}{\text{Sum of weight A3 for all responding households}}$$

Weight A3 is multiplied by this factor to produce weight A4 for the responding households. Non-responding households are dropped from the process at this point.

#### **T0 – Initial weight**

The initial weight T0 for the units on the telephone frames is defined as the inverse of the probability of selection. It is computed separately for the RDD and list frame samples because the method of selection differs between these two frames.

#### **T1 – Number of collection periods**

On the area frame, the entire sample is selected at the beginning of the year. This practice is in contrast to the telephone frame, in which samples are drawn every two months.



Each of these samples has an initial weight that allows each sample to be representative at the HR level. To ensure that the total sample represents the population only once, an adjustment factor is applied to reduce the weight of each two-month sample.

The adjustment factor applied to each two-month sample is the inverse of the number of samples being combined (i.e. the number of collection periods). After this adjustment, the entire list frame sample corresponds to the average for the entire combined collection period. The initial weights are multiplied by this adjustment factor to produce weight T1.

### T2 - Removal of out-of-scope numbers

Out-of-scope cases for the telephone frame include telephone numbers associated with businesses, institutions or other out-of-scope dwellings, as well as numbers not in service or any other non-working numbers. Similar to the methods used on the area frame, these cases are simply removed from the process, leaving only in-scope dwellings in the sample. These in-scope dwellings keep the same weight as in the previous step, now called weight T2.

### T3 – Household non-response

The adjustment applied at this step to compensate for the effect of household non-response is identical to the one applied for the area frame (adjustment A4), except that the paradata used does differ because of the differences in collection applications for personal and telephone interviews.

The adjustment factor within each class was calculated as follows:

$$\frac{\text{Sum of weights T2 for all households}}{\text{Sum of weights T2 for all responding households}}$$

The weight T2 of responding households is multiplied by this factor to produce the weight T3. Non-responding households are removed from the process at this point.

### T4 - Multiple telephone lines

Some households can have more than one residential telephone line. This occurrence has an impact on the weighting because these households have a higher probability of being selected. Therefore, the weights for these households need to be adjusted for the number

of residential telephone lines within the household. The adjustment factor represents the inverse of the number of lines in the household. The weight T4 is obtained by multiplying this factor by the weight T3.

### 2.7.2 Weighting procedures for the Households and the Environment Survey: Energy Use

The principles behind the calculation of the weights for the HES-Energy Use are identical to those for the CCHS. However, further adjustments are made to the CCHS household subweights to derive a final weight for the records on the HES-Energy Use microdata share file.

#### Diagram B: HES – Energy use weighting strategy overview

Weighting steps
H0: CCHS subweight
H1: HES initial weight
H2: HES non-response adjustment
H3: HES-Energy Use non-response adjustment
H4: HES-Energy Use non-sharing adjustment
H5: Calibration

#### H0 – CCHS subweight

The CCHS subweight is obtained after the I1 step of the CCHS weighting process is completed. The CCHS I1 step consists of integrating the weights for households that are common to the area and telephone frames into a single weight by applying a method of integration.

The integration factor is calculated as follows:

$$\alpha = \frac{n_A}{(n_A + n_T)}$$

where  $n_A$  and  $n_T$  represent the area and telephone frames sample sizes, respectively.

The weight of the area frame units is multiplied by the factor  $\alpha$ .

The weight of the telephone frame units is multiplied by  $1-\alpha$ .

The product of the factor  $\alpha$  and the final household weight calculated earlier (A4 or T4, depending on which frame the unit belongs to) gives the integrated household weight I1, also called the CCHS subweight.

**H1 – HES initial weight**

The HES sample is a random subsample of the CCHS respondents. The first step is to calculate the probability of being selected in the HES sample. For each dwelling selected in the HES, an adjustment factor is defined as the inverse of its probability of selection in the second step. This factor, multiplied by weight H0, produces weight H1.

**H2 – HES non-response adjustment**

Weights of the non-responding HES dwellings are redistributed to responding dwellings within RHGs. To create the RHGs, a scoring method based on logistic regression models is used to determine the propensity to respond, and these response probabilities are used to divide the sample into groups with similar response properties.

An adjustment factor is calculated within each class as follows:

$$\frac{\text{Sum of weights H1 for all dwellings}}{\text{Sum of weights H1 for all responding dwellings}}$$

The weight H1 of responding dwellings is multiplied by this factor to produce the weight H2. Non-responding dwellings are removed from the process at this point.

**H3 – HES-Energy use non-response adjustment**

This step is similar to the H2 step. Weights of the non-responding HES-Energy Use dwellings are redistributed to responding dwellings within RHGs.

An adjustment factor is calculated within each class as follows:

$$\frac{\text{Sum of weights H2 for all dwellings}}{\text{Sum of weights H2 for all responding dwellings}}$$

The weight H2 of responding dwellings is multiplied by this factor to produce the weight H3. HES-Energy Use non-responding dwellings are removed from the process at this point.

**H4 – HES-Energy use non-sharing adjustment**

This step is similar to the previous ones. Weights of the HES-Energy Use dwellings that did not agree to share their data with NRCan are redistributed to the dwellings who agreed to share their data.

An adjustment factor is calculated within each class as follows:

$$\frac{\text{Sum of weights H3 for all dwellings}}{\text{Sum of weights H3 for all dwellings who accepted to share}}$$

The weight H3 is multiplied by this factor to produce the weight H4. HES-Energy Use dwellings that refused to share their data are removed from the process at this point.

**H5 - Calibration**

The final step necessary to obtain the final HES weight H5 is calibration. Calibration is done to ensure that the sum of the final weights corresponds to the census projections defined at the province/territory and household size levels (one, two or three and more occupants). Weight H5 is the final HES-Energy Use weight that is on the microdata share file that has the variable name WTHM.





## Appendix B



## Glossary



**Air conditioner:** Device used to cool air within a dwelling.

**Air leak:** Unintended exchange of interior and exterior air around a window or door.

**Apartment building:** A building originally designed to contain multiple dwelling units (apartments) within it. Duplexes (two dwellings one above the other, not attached to any other structure) are not included in this definition.

**Attic:** The top storey of a dwelling, below the roof, used more often for storage purposes than for living purposes.

**Bag of firewood:** Equivalent to a stack of wood that measures 1 foot (ft.) long by 1 ft. wide by 2 ft. high (0.3 metres [m] by 0.3 m wide by 0.6 m high).

**Basement:** A usable part of a building that is located partially or completely beneath the outside ground level.

**Boiler (space heating):** A space heating system with a pump that distributes heated water through a network of pipes to radiators in various rooms in the dwelling. The radiators are heat-emitting.

**Boiler (water heating):** A large hot water tank that is typically used in apartment buildings.

**British Thermal Unit (BTU):** The quantity of heat required to raise the temperature of one pound of water by 1°F.

**Built-in oven:** A domestic appliance placed in a closed compartment, used for cooking food. In contrast to the regular stove/range, a built-in oven cannot be moved and is not equipped with surface heating elements (burners).

**Caulking:** Material used to make an air-tight seal by filling in cracks, such as those around windows and doors.

**Central air conditioner:** An air conditioner that typically uses ventilation ducts to distribute cooled and/or dehumidified air to more than one room.

**Clothes dryer:** An 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.

**Clothesline:** A cord on which wet clothes are hung after washing to enable them to dry.

**Clothes washer (washing machine):** An appliance for washing laundry that has a washtub, an agitator (top loading machines) and a system for draining used water. An opening at the top or front of the appliance provides access to the washtub.

**Combination boiler (typically a wall-hung unit):** Typically, a small boiler used for domestic hot water in addition to space heating.

**Compact fluorescent lamp:** A general term for small-diameter fluorescent lights. They are also known as corkscrew or spiral light bulbs. The lamp is similar to and can replace most incandescent bulbs.

**Compact stereo:** A one-component stereo system that cannot be carried or moved easily because of its size or design (no built-in handles or carrying straps).

**Component stereo:** A stereo system with two or more separate 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.

**Computer monitor:** An electrical device used to provide a visual display of images generated from the video output of a computer. Laptop computers do not require an external computer monitor because a video display is built in to the laptop casing.

**Computer printer:** A peripheral device that produces a hard copy (usually on paper) of a graphic display relayed from a computer.

**Concrete slab:** A concrete surface supported directly by the ground beneath.

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

**Condominium:** A dwelling unit in a multidwelling structure (an apartment building) or on land owned in common (a townhouse complex) that is owned by an individual.

**Condominium corporation:** A corporation that administers the operation, maintenance and repair of the common elements and assets of a condominium.

**Cooktop:** A domestic appliance that is a surface-mounted set of heating elements (burners) not attached to an oven, used for cooking food. In contrast to the regular stove/range that is a single-unit appliance containing an oven and a cooktop, this cooktop cannot be moved.

**Crawl space:** A narrow space between the bottom of the floor of the lowest building storey and the ground. The space may have an earth, gravel or paved floor. In houses that do not have basements, the space between the first floor and the surface of the ground is made large enough for a person to crawl through to access utilities.

**Desktop computer:** A personal computer in a form intended for regular use at a single location.

**Dimmers:** A device that controls a gradual increase or decrease of illumination.

**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.

- **Compact dishwasher:** categorized as a dishwasher that has a capacity less than eight place settings and six serving pieces
- **Standard dishwasher:** categorized as a dishwasher that has a capacity equal to or greater than eight place settings and six serving pieces

**Double/Row house:** A house connected to at least one other dwelling, which together form a building. For SHEU-2007, duplexes (two dwellings one above the other, not attached to any other structure) are included in this category.

**Drafts:** Unintended exchange of interior and exterior air around windows or doors.

**Drying rack:** A frame (usually wooden, metal or plastic) on which wet clothes are hung after washing to enable them to dry.

**DVD player:** A stand-alone device that plays DVDs (digital video disks). It contains a DVD drive and the electronics to decode the digital video. DVD players are cabled directly to a TV or indirectly to a TV through a home theatre system for audio and video display.

**Dwelling:** Any set of living quarters that is structurally separate from the living quarters of other dwellings and has a private entrance outside the building or a private entrance from a common hall or stairway inside the building. The private entrance must be one that can be used without passing through the living quarters of another dwelling.

**Electric baseboard:** An electric heat-emitting device located only at the baseboard level. It can be controlled at the unit itself or with a wall control.

**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.

**Electricity:** Electric energy measured by a meter, distributed by a public utility company to a dwelling through overhead or underground power lines. This definition does not include electricity generated by non-public utility sources.

**Energy consumption:** For SHEU-2007, a sum of household electricity, natural gas, heating oil, propane and wood consumption in terms of energy (gigajoules) during 2007. Household energy consumption excludes energy consumed for transportation and gas-powered equipment requirements.

**Energy source(s):** Type(s) of energy used by a household. For SHEU-2007, energy sources include electricity, natural gas, heating oil, propane, wood and other sources, such as solar and wind.

**ENERGY STAR® qualified product:** The ENERGY STAR mark helps consumers identify which energy-consuming products are the most energy-efficient in their class. The ENERGY STAR symbol is used to identify products that offer premium performance levels in energy efficiency. The ENERGY STAR symbol is displayed on product packaging, literature and advertising and on the products themselves.

**Face or stove cord:** Equivalent to a stack of wood that measures 8 ft. long by 16 inches wide (one log) by 4 ft. high (2.4 m by 0.4 m wide by 1.2 m high).



**Fireplace:** A partially enclosed space for a contained fire within a dwelling. The energy source for a fireplace is typically wood, natural gas, propane or electricity. An electric fireplace does not house an actual fire within its enclosure. However, it does produce heat and a visual rendering of a fire when in use.

**Fluorescent tube:** A low-pressure electric-discharge lamp consisting of an elongated tube with one or more photoluminescent (phosphor) coatings on the inside that transforms ultraviolet light into visible light.

**Foundation:** A structure that supports and immobilizes houses and buildings. It is designed to distribute all loads that are transmitted to it toward or under the ground.

**Freezer:** A stand-alone appliance that freezes food. It is built as either a vertical model (with a door that opens outward) or a chest model (with a lid). For SHEU-2007, a freezer compartment within a refrigerator is not included in the definition.

**Full or brush cord:** Equivalent to a stack of wood that measures 8 ft. long by 4 ft. wide by 4 ft. high (2.4 m by 1.2 m wide by 1.2 m high). It is also equivalent to 3 face cords or 64 bags of wood.

**Furnace:** A heating system 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.

**Furnace efficiency rating:** A measurement of the amount of heat delivered to the dwelling compared to the amount of fuel supplied to the furnace. The efficiency rating is referred to as the annual fuel utilization efficiency (AFUE). A high-efficiency furnace has a higher AFUE than a low-efficiency furnace.

**Furnace filter:** A filter that protects the furnace and furnace fans from debris in the air entering the furnace through the heating duct system. A furnace works most efficiently with a clean filter.

**Garage:** A space primarily designed to shelter personal vehicles that is usually enclosed or covered.

**Gigajoule:** A unit of measure for energy consumption equal to 1 billion joules.

**Halogen light bulbs:** An incandescent lamp with a tungsten filament that contains halogen gases that carry the tungsten particles back to the filament as they evaporate, thus preventing them from accumulating on the glass wall. The bulbs provide an intense white light and become very hot in use.

**Hardwood:** A wood of higher density and hardness than softwood. It also produces more heat when burned than a softwood.

**Heat pump:** An electrical device that can be used to heat and cool a dwelling. It is typically located outdoors if it is an air source heat pump and indoors if it is a ground source (earth or water) heat pump.

**Heated area:** All space within the exterior walls of a dwelling that is heated, excluding heated garages and basements.

**Heating oil:** A low-viscosity, flammable liquid petroleum product used to fuel furnaces or boilers.

**Heating season:** A general term for the time of the year when heating equipment is used to heat the interior of a dwelling.

**Heating stove:** An enclosed heating unit in which material such as wood, pellets and corn are burned.

**High-rise apartment:** A dwelling unit contained in an apartment building with five or more storeys.

**Home theatre system:** For SHEU-2007, a home theatre system is a surround sound audio system typically used in conjunction with TV viewing.

**Hot water heater:** An apparatus in which water is heated to be used specifically as domestic hot water. Boilers used only for space heating are not included in this definition.

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

**Household:** A person or group of people who occupy a dwelling. The number of households, therefore, is equal to the number of dwellings occupied.



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

**Improvements:** For SHEU-2007, improvements are any enhancements to a dwelling that reduce energy consumption. They are commonly referred to as a retrofit.

**Incandescent light bulb:** A light bulb containing a tungsten filament that gives off light when an electric current flows through it. It is commonly referred to as an ordinary or regular light bulb.

**Insulation:** Material that reduces unwanted heat loss or gain and can decrease the energy demands of heating and cooling systems.

**Insulation around hot water pipes:** Add-on insulation placed around hot water pipes to conserve energy (keep heat in). The add-on insulation is not necessary for the normal operation of the pipes and includes such things as snap-on insulation.

**Landlord:** The owner of a dwelling that rents that dwelling as housing to tenants.

**Laptop computer:** A personal computer designed for mobile use. A laptop computer is also referred to as a notebook computer.

**LED holiday lights:** Generally, a string of decorative indoor or outdoor light-emitting diode (LED) lamps that are used as decoration. The lights are not used for practical lighting purposes.

**Light sensor-lighting timer control:** A device that turns connected lights on and off automatically according to detected light levels.

**Low-emissivity (Low-E) coating:** A coating that is highly reflective and transparent, applied to window panes to slow heat loss.

**Low-flow showerhead:** A showerhead that can reduce hot water use without reducing the water pressure provided while taking a shower using a standard showerhead.

**Low-rise apartment:** A dwelling unit contained in an apartment building with fewer than five storeys.

**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:** A mobile dwelling 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:** An automatic sensor in a clothes dryer that detects the amount of moisture in the clothes and automatically stops the dryer when the clothes are at a predetermined level of dryness. It is not a timed function.

**Motion detector-lighting timer control:** A device that automatically turns lights on when motion is detected in close proximity to a sensor and off after a period of no motion.

**Natural gas:** An energy source consisting of a gaseous mixture of saturated hydrocarbons that is found in underground deposits either alone or with petroleum. It is delivered directly to houses and buildings by pipelines.

**Outside walls/exterior walls:** Walls that are in contact with the outside of the house or building. This excludes walls that are shared between double/row houses or apartments.

**Personal computer:** Any general-purpose computer whose size and capabilities make it useful for individuals and which is intended to be operated directly by a user, with no intervening computer operator. Personal computers include desktop and laptop computers.

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

**Pilot light:** A small flame within a gas-burning or oil-burning unit that is allowed to burn continually to ensure automatic ignition of the unit.

**Plastic film on windows:** Plastic film installed over window frames that reduces drafts and heat loss due to gaps in insulation. Typically the film is temporary because it is installed during the heating season and removed after the season is over.

**Portable electric heater:** A space heating unit that can be easily transported. The source of heat is electrical resistance.

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

**Programmable lighting timer control:** A device that automatically turns lights on and off according to its programmed time-of-day specifications.

**Programmable thermostat:** A thermostat that can be set to change the temperature at different times during the day. For example, at night you might set it a lower temperature while you are sleeping and set it to come on automatically at a higher daytime temperature an hour before you get up.

**Propane:** An energy source that is a saturated, aliphatic, linear-chain hydrocarbon found in natural gas and petroleum.

**Property manager:** Handles the day-to-day running of a condominium or rental property.

**Radiant floor heating:** Embedded tubing or electrical wiring located in the floor that carries either hot water or electricity for space heating.

**Refrigerator:** A movable chest in which the temperature can be controlled for the preservation of perishable food. Most refrigerators are equipped with a second compartment for freezing food.

**Regular stove/range:** A single-unit appliance used to cook food, containing an oven and a cooktop.

**Rural area:** The area to which mail delivery service is provided from a non-letter carrier post office that includes rural mail delivery. Classification as a rural area is based on a dwelling's forward sortation area (the first

three characters [letter-number-letter] of a postal code, which represent a geographic area).

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

**Softwood:** A wood of lower density and hardness than hardwood. It also produces less heat when burned than hardwood.

**Solar power:** Electricity generated from solar radiation.

**Split-level:** A dwelling that usually has the floor level of one part about half a storey above or below the floor level of an adjacent part.

**Standby mode:** A state of an electronic device that is perceived to be turned off but is consuming energy. Equipment in standby mode can consume energy to power built-in clocks, sensors that are awaiting remote control commands and other functions.

**Storey:** Space contained between two consecutive floors or between a floor and a roof.

**Supplementary furnace:** A furnace that is used in addition to the main heating system.

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

**Tankless (instantaneous) water heater:** A system in which the water is heated as it passes an instant heater on the way to the faucet. The system does not have a tank to store heated water. The heated water is supplied only as it is required.

**Telephone:** For SHEU-2007, a telephone is a phone that requires an electrical outlet and a phone jack. This does not include cellular telephones.

**Television:** An electronic device that displays audio/video signals from television broadcasts and other audio/video equipment such as DVD players and VCRs.

- **Direct light projection (DLP) television:** A television that uses DLP technology to display video signals. DLP televisions can display a high definition (HD) video signal.
- **High definition (HD) television:** A television that can display an HD video signal, which provides a higher resolution picture than traditional televisions.
- **Liquid crystal display (LCD) television:** A television that uses LCD technology to display video signals. LCD televisions can display an HD video signal.
- **Plasma television:** A television that uses plasma technology to display video signals. Plasma televisions can display a HD video signal.
- **Projection television:** A television that uses two separate devices (an image projector and a screen) to display video signals.
- **Regular (tube) television:** A television that uses cathode-ray tube (CRT) technology to display video signals. The CRT was the original technology used in televisions.

**Television analog/digital receiver box:** A device that converts a cable or satellite television signal for audio/visual display on an attached television. It is commonly referred to as a TV set-top box or cable box.

- **Digital cable or satellite television receiver box:** A television receiver box that converts a digital television signal from a cable or satellite television provider.
- **HD television receiver box:** A television receiver box that converts an HD television signal from a cable or satellite television provider.
- **Personal video recorder (PVR) television receiver box:** A television receiver box that can record a television program digitally for viewing later, pause and rewind live programs, and record one or several programs while the user is watching another live or recorded program.
- **Regular (analog) cable or satellite television receiver box:** A television receiver box that is only capable of converting an analog television signal from a cable or satellite television provider.

**Thermostat:** A device that controls indoor dwelling temperature; controls the operation of space heating and cooling devices by turning the device on or off when a specified temperature is reached.

**Urban area:** The area to which mail delivery service is provided from any letter carrier post office, including any letter carrier, rural route or other route serving an urban forward sortation area (the first three characters [letter-number-letter] of a dwelling's postal code, which represent a geographic area).

**VCR (video cassette recorder):** An analog tape recording device that can record and play videocassettes through a television.

**Video game console:** A dedicated electronic device that plays video games on a television.

**Water cooler:** A device that cools and dispenses drinking water from large bottles that generally are delivered by or picked up from vendors.

**Wattage:** Standard measure of electrical power.

**Weatherstripping:** A felt or foam band, usually self-adhesive, placed at the joints of doors and windows to seal against air leaks and reduce heat loss.

**Window:** A construction unit set into a space within a wall or inclined roof to allow light, and possibly air, to enter. The space is typically closed by a transparent material such as a pane of glass.

- **Sealed window unit:** A multiple-pane window that has the space between the panes sealed so that the panes can only be moved in unison.
- **Gas-filled window:** A multiple-pane window that contains argon gas between the panes.
- **Storm window:** A window that fits into, or over, a primary window and is used to minimize drafts due to air leakage. Storm windows can be installed on the inside or the outside of the building, and they can be permanent, seasonal or temporary.

**Window/room air conditioner:** An air conditioner that typically distributes cooled and/or dehumidified air to a single room.

- **Minisplit air conditioner:** A quiet, compact air conditioner consisting of an outdoor compressor and up to three indoor diffusers installed high on the walls so as to ensure a uniform distribution of air. Unlike a heat pump, it can only be used for cooling.
- **Free-standing portable air conditioner:** An air conditioner that is designed to be easily moved from location to location. Typically the unit has wheels.
- **Through the wall-mounted (non-louvred) air conditioner:** An air conditioner that is installed in an exterior wall opening and has non-louvred sides.
- **Wall-mounted heat pump/air conditioner:** A compact heat pump consisting of an outdoor compressor and up to three indoor diffusers installed high on the walls to ensure a uniform distribution of air. It can be used for space heating as well as air conditioning.
- **Window-mounted unit (louvred unit) air conditioner:** An air conditioner that has an accordion pleat stretching from the air conditioner unit to the edge of the window frame. Louvred sides (accordion pleat) are used with window air conditioners to prevent drafts.

**Wind power:** Electricity derived from the wind by using windmills or wind turbines.

**Wood pellets:** A type of wood fuel generally made from compacted sawdust. Wood pellets are small and extremely dense.





## Appendix C



## Questionnaires



## 2007 Survey of Household Energy Use

### Section A: Dwelling characteristics

**What is the heated area of your dwelling? Please exclude the basement and garage.**

- 00 Specific sq. ft. or m<sup>2</sup>
- 01 600 sq. ft. (55 m<sup>2</sup>) or less
- 02 601 to 1000 sq. ft. (56 to 95 m<sup>2</sup>)
- 03 1001 to 1500 sq. ft. (96 to 140 m<sup>2</sup>)
- 04 1501 to 2000 sq. ft. (141 to 185 m<sup>2</sup>)
- 05 2001 to 2500 sq. ft. (186 to 230 m<sup>2</sup>)
- 06 2501 to 3000 sq. ft. (231 to 280 m<sup>2</sup>)
- 07 3001 to 3500 sq. ft. (281 to 325 m<sup>2</sup>)
- 08 3501 to 4000 sq. ft. (326 to 371 m<sup>2</sup>)
- 09 4001 sq. ft. (372 m<sup>2</sup>) or more
- 97 Don't know
- 99 Not stated

*Coverage: All respondents*

**Do you currently own or rent your dwelling?**

- 1 Own
- 2 Rent
- 7 Don't know
- 9 Not stated

*Coverage: All respondents*

**Is your current dwelling located within an apartment building?**

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

*Coverage: Respondents who currently own their dwelling*

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

- 00 Number of storeys in your building
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who currently own their dwelling and the dwelling is located within an apartment building*

**In what year was this dwelling originally built?**

- 00 Specific year
- 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 Between 2001 and 2005
- 08 2006 or later
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who currently own their dwelling, except dwellings located within an apartment building*

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

- 01 One storey
- 02 One and a half storeys
- 03 Two storeys
- 04 Two and a half storeys
- 05 Three storeys
- 06 Split level
- 07 Other
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who currently own their dwelling, except dwellings located within an apartment building*



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

- 1 Basement
- 2 Crawl space
- 3 Concrete slabs
- 4 Pillars
- 5 Other
- 6 No foundation
- 7 Don't know
- 8 Valid skip

*Coverage: Respondents who currently own their dwelling, except dwellings located within an apartment building*

**If you have indicated that you . . .**

- 1 Have a basement or crawl space
- 2 Do not have a basement or crawl space
- 6 Valid skip
- 9 Not stated

*Coverage: Respondents who currently own their dwelling, except dwellings located within an apartment building*

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

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

*Coverage: Respondents who currently own their dwelling, do not live in an apartment building and have a basement or crawl space*

**What is the heated area of your basement/crawl space?**

- 00 Specific sq. ft. or m<sup>2</sup>
- 01 600 sq. ft. (55 m<sup>2</sup>) or less
- 02 601 to 1000 sq. ft. (56 to 95 m<sup>2</sup>)
- 03 1001 to 1500 sq. ft. (96 to 140 m<sup>2</sup>)
- 04 1501 to 2000 sq. ft. (141 to 185 m<sup>2</sup>)
- 05 2001 to 2500 sq. ft. (186 to 230 m<sup>2</sup>)
- 06 2501 to 3000 sq. ft. (231 to 280 m<sup>2</sup>)

- 07 3001 sq. ft. (281 m<sup>2</sup>) or more
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who currently own their dwelling, do not live in an apartment building and have a basement or crawl space that is usually heated during the heating season*

**Are any of your basement/crawl space outside walls insulated on the inside?**

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

*Coverage: Respondents who currently own their dwelling, do not live in an apartment building and have a basement or crawl space that is usually heated during the heating season*

**What percentage of the outside walls is insulated on the inside?**

- 001: 100 Percentage of walls insulated on inside
- 996 Valid skip
- 997 Don't know
- 999 Not stated

*Coverage: Respondents who currently own their dwelling, do not live in an apartment building and have a basement or crawl space that is usually heated during the heating season for which outside walls are insulated on the inside*

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

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

*Coverage: Respondents who currently own their dwelling, except dwellings located within an apartment building*

**Is there insulation in your attic?**

- 1 Yes – on the attic floor
- 2 Yes – on the attic walls
- 3 Yes – on both the attic floor and walls
- 4 No
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who currently own their dwelling, do not live in an apartment building and have an attic*

**Does your dwelling have a garage?**

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

*Coverage: Respondents who currently own their dwelling, except dwellings located within an apartment building*

**Is your garage attached to the dwelling?**

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

*Coverage: Respondents who currently own their dwelling, do not live in an apartment building and have a garage*

**How much insulation does your garage have?**

- 1 Full insulation – all walls and garage doors are insulated
- 2 Full insulation – all walls but not the garage doors are insulated
- 3 Partial insulation – some walls are insulated
- 4 No
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who currently own their dwelling, do not live in an apartment building and have a garage*

**During the heating season, is your garage usually heated?**

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

*Coverage: Respondents who currently own their dwelling, do not live in an apartment building and have a garage*

**What type of garage does your dwelling have?**

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

*Coverage: Respondents who currently own their dwelling, do not live in an apartment building and have a garage*

**Have you made any of the following improvements to your dwelling that reduces energy consumption?**

- 01 No improvements were made
- 97 Don't know
- 02 The roof structure or surface
- 03 The heating equipment (include fireplaces and woodstoves)
- 04 Windows (include patio doors)
- 05 The caulking or weather-stripping around your windows or doors
- 06 The insulation of the basement or crawl-space walls
- 07 The exterior wall siding
- 08 The insulation around the hot water pipes
- 09 The insulation of the roof or the attic
- 10 The insulation of any exterior walls (excluding basement)
- 11 Exterior doors (include garage door[s])
- 12 Installed a programmable thermostat
- 13 The ventilation or central air conditioning equipment
- 14 The foundation
- 15 Other – specify
- 16 Other – specify
- 96 Valid skip

*Coverage: Respondents who currently own their dwelling, except dwellings located within an apartment building*

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**What year were the following improvements made to your dwelling that reduce energy consumption?**

- 01 Valid skip
- 02 Specific year – The roof structure or surface
- 03 Specific year – The heating equipment (include fireplaces and woodstoves)
- 04 Specific year – Windows (include patio doors)
- 05 Specific year – The caulking or weather stripping around your windows or doors
- 06 Specific year – The insulation of the basement or crawl space walls
- 07 Specific year – The exterior wall siding
- 08 Specific year – The insulation around the hot water pipes
- 09 Specific year – The insulation of the roof or the attic
- 10 Specific year – The insulation of any exterior walls (excluding basement)
- 11 Specific year – Exterior doors (include garage door[s])
- 12 Specific year – Installed a programmable thermostat
- 13 Specific year – The ventilation or central air-conditioning equipment
- 14 Specific year – The foundation
- 15 Specific year – Other – specify
- 16 Specific year – Other – specify

*Coverage: Respondents who currently own their dwelling, do not live in an apartment building and made improvements to their dwelling that reduces energy consumption*

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**What is the main reason you have not made any improvements to your dwelling?**

- 01 No improvements are currently necessary
- 02 Planning to make improvements in the future
- 03 Not aware of government financial aid or assistance
- 04 Planning to sell
- 05 Dwelling was recently purchased or built
- 06 Improvements are too costly
- 07 Do not have time
- 08 No government financial aid or assistance
- 09 Other
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who currently own their dwelling, do not live in an apartment building and have not made improvements to their dwelling that reduces energy consumption*

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**Do you use a hot water heater?**

- 1 Yes
- 2 Dwelling does not have hot running water
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who currently own their dwelling*

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**Is the water heater located in your dwelling?**

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

*Coverage: Respondents who currently own their dwelling and use a hot water heater*

---

**What type of hot water heater is used in your dwelling?**

- 1 Standard hot water tank
- 2 Tankless (instantaneous water heater)
- 3 Combination boiler (typically a wall-hung unit)
- 4 Other
- 5 Boiler (apartment buildings)
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who currently own their dwelling and use a hot water heater located in their dwelling*

---

**What source of energy does the water heater use?**

- 01 Electricity
- 02 Oil
- 03 Natural gas
- 04 Propane
- 05 Solar
- 06 Other source
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who currently own their dwelling and use a hot water heater located in their dwelling*

**How old is your hot water heater?**

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

*Coverage: Respondents who currently own their dwelling and use a hot water heater located in their dwelling*

**Did you replace a previous hot water tank with your current hot water heater?**

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

*Coverage: Respondents who currently own their dwelling and use a hot water heater located in their dwelling*

**Was your previous hot water tank still working when you replaced it?**

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

*Coverage: Respondents who currently own their dwelling, use a hot water heater located in their dwelling and replaced a previous hot water tank with their current hot water heater*

**How old was your previous hot water tank when you replaced it?**

- 00 Age of previous hot water tank
- 01 5 years or less
- 02 6 to 10 years
- 03 11 to 15 years

- 04 16 to 20 years
- 05 21 to 25 years
- 06 26 years or more
- 97 Don't know
- 96 Valid skip
- 99 Not stated

*Coverage: Respondents who currently own their dwelling, use a hot water heater located in their dwelling and replaced a previous hot water tank with their current hot water heater*

**What type of windows (including patio doors) are the majority in your dwelling?**

- 01 Standard single pane with storm window
- 02 Standard single pane
- 03 Standard double pane
- 04 Standard double pane sealed unit
- 05 Standard triple pane sealed unit
- 06 Low-Emissivity (Low-E) coating – gas-filled double pane
- 07 Low-Emissivity (Low-E) coating – gas-filled triple pane
- 08 Standard gas-filled double pane
- 09 Standard gas-filled triple pane
- 10 Other
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who currently own their dwelling*

**How old are the majority of the windows in your dwelling?**

- 1 5 years or less
- 2 6 to 10 years
- 3 11 to 15 years
- 4 16 or more
- 5 Same age as dwelling
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who currently own their dwelling*

---

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

- 1 Yes – on most
- 2 Yes – on some
- 3 No
- 7 Don't know
- 9 Not stated

*Coverage: All respondents*

---

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

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

*Coverage: All respondents*

---

**Please indicate how many of the following types of light bulbs are used by your dwelling. Include exterior lights. Do not include seasonal lights such as Christmas lights, Halloween lights, etc.**

- 01 Number of halogen light bulbs (include spotlights)
- 02 Number of compact fluorescent light bulbs
- 03 Number of regular fluorescent light bulbs (e.g. fluorescent tubes)
- 04 Number of incandescent light bulbs (include smaller bulbs used in chandeliers or in accent lighting fixtures)
- 997 Don't know
- 999 Not stated

*Coverage: All respondents*

---

**On an average day, do you turn on any incandescent light bulbs (exclude small bulbs and night lights) for a total of three or more hours?**

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

*Coverage: All respondents*

---

**How many are turned on for a total of three or more hours?**

- 00 Number of incandescent bulbs turned on for 3+ hours
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who on an average day turn on incandescent light bulbs for a total of three or more hours*

---

**What is the typical wattage of the light bulb(s) turned on for 3 hours or more?**

- 0000 Wattage of incandescent bulbs turned on for 3+ hrs
- 9996 Valid skip
- 9997 Don't know
- 9999 Not stated

*Coverage: Respondents who on an average day turn on incandescent light bulbs for a total of three or more hours*

---

**On an average day in the winter, for how many hours do you have the light bulb(s) turned on?**

- 00 Winter – hours per day light bulbs on
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who on an average day turn on incandescent light bulbs for a total of three or more hours*

---

**On an average day in the summer, for how many hours do you have the light bulb(s) turned on?**

- 00 Summer – hours per day light bulbs on
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who on an average day turn on incandescent light bulbs for a total of three or more hours*

**How many light bulbs have a timer control?**

- 00 Number of light bulbs – programmable timer control
- 00 Number of light bulbs – motion detector
- 00 Number of light bulbs – light sensor
- 97 Don't know
- 99 Not stated

*Coverage: All respondents*

**Section B: Household appliances****How old are the following major appliances that you use in your dwelling?**

- ...Main refrigerator
- ...Second refrigerator
- ...Freezer (stand-alone)
- ...Regular stove/range
- ...Separate cooktop
- ...Built-in oven
- ...Microwave oven
- ...Dishwasher
- ...Washing machine
- ...Clothes dryer

- 01 Not applicable
- 02 5 years or less
- 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
- 97 Don't know
- 99 Not stated

*Coverage: All respondents*

**Please indicate if the following appliances used in your dwelling are ENERGY STAR qualified products.**

Note: The ENERGY STAR label can sometimes be found on the information sticker that is on the appliance. Also note that appliances bought before 2001 are generally not ENERGY STAR qualified.

- ...Main refrigerator
- ...Second refrigerator
- ...Freezer (stand-alone)
- ...Dishwasher
- ...Washing machine

- 1 Not applicable
- 2 Yes
- 3 No
- 7 Don't know
- 9 Not stated

*Coverage: All respondents*

**What source of energy does your following major appliance use?**

- ...Regular stove/range
- ...Separate cooktop
- ...Built-in oven
- ...Clothes dryer

- 01 Not applicable
- 02 Electricity
- 03 Natural gas
- 04 Electricity and natural gas
- 05 Oil
- 06 Wood
- 07 Propane
- 97 Don't know
- 99 Not stated

*Coverage: All respondents*

**If you . . . ?**

- 1 Use a refrigerator in your dwelling
- 2 Do not use a refrigerator in your dwelling
- 9 Not stated

*Coverage: All respondents*

**How many refrigerators do you use in your dwelling?**

- 1 One
- 2 Two
- 3 Three or more
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who use a refrigerator in their dwelling*

---

**What did you do with your previous refrigerator when you replaced it with your current one?**

- 01 No old refrigerator – current one is the original/first
- 02 Disposed of refrigerator
- 03 Kept it at home and plugged in all year
- 04 Kept it at home/plugged it in when needed
- 05 Resold
- 06 Other
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who use a refrigerator in their dwelling*

---

**If you . . . ?**

- 1 Use a freezer (stand-alone) in your dwelling
- 2 Do not use a freezer (stand-alone) in your dwelling
- 9 Not stated

*Coverage: All respondents*

---

**How many freezers do you use in your dwelling?**

- 1 One
- 2 Two
- 3 Three or more
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who use a freezer (stand-alone) in their dwelling*

---

**What is the size of your (main) freezer (stand-alone)?**

- 1 Very small (less than 7.0 cu. ft.)
- 2 Small (7.1 to 13.9 cu. ft.)
- 3 Medium (14.0 to 17.9 cu. ft.)
- 4 Large (18.0 to 22.9 cu. ft.)
- 5 Very large (more than 23 cu. ft.)
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who use a freezer (stand-alone) in their dwelling*

---

**If you . . . ?**

- 1 Use a regular stove/range, separate cooktop or built-in oven
- 2 Do not use regular stove/range, separate cooktop or built-in oven
- 9 Not stated

*Coverage: All respondents*

---

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

- 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
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who use a regular stove/range, separate cooktop or built-in oven in their dwelling.*

---

**If you . . . ?**

- 1 Use a microwave in your dwelling
- 2 Do not use a microwave in your dwelling
- 9 Not stated

*Coverage: All respondents*

---

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

- 01 Less than 5 min
- 02 5 to 15 min
- 03 16 to 30 min
- 04 31 to 60 min
- 05 61 min to 2 h
- 06 More than 2 h
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who use a microwave in their dwelling*

**If you . . . ?**

- 1 Use a dishwasher in your dwelling
- 2 Do not use a dishwasher in your dwelling
- 9 Not stated

*Coverage: All respondents*

**Is the dishwasher in your dwelling compact or standard size?**

- 1 Compact (mini – exterior width less than 56 cm [22 in.])
- 2 Standard (full size – exterior width greater than or equal to 56 cm [22 in.])
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who use a dishwasher in their dwelling*

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

- 1 Heat on (with the door closed)
- 2 Heat off (with the door closed)
- 3 Door open (dishes dry naturally)
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who use a dishwasher in their dwelling.*

**In an average week, how many loads of dishes do you do? Please give your best estimate.**

- 00 Weekly – number of loads of dishes
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who use a dishwasher in their dwelling*

**If you . . . ? (Please exclude washing machines used in common laundry areas.)**

- 1 Use a washing machine in your dwelling
- 2 Do not use a washing machine in your dwelling
- 9 Not stated

*Coverage: All respondents*

**What type of washing machine do you use in your dwelling?**

- 1 Standard top-loading
- 2 Standard front-loading
- 3 Washer/dryer combination with a top-loading washer
- 4 Washer/dryer combination with a front-loading washer
- 5 Other
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who use a washing machine in their dwelling*

**What size is your washing machine?**

- 1 Mini (compact – less than 45 L [10 gal.])
- 2 Standard (full size – greater than or equal to 45 L [10 gal.])
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who use a washing machine in their dwelling*

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

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

*Coverage: Respondents who use a washing machine in their dwelling*



---

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

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

*Coverage: Respondents who use a washing machine in their dwelling*

---

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

- 00 Winter – number of loads of laundry
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who use a washing machine in their dwelling*

---

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

- 00 Summer – number of loads of laundry
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who use a washing machine in their dwelling*

---

**If you . . . ? (Please exclude clothes dryers used in common laundry areas.)**

- 1 Use a clothes dryer in your dwelling
- 2 Do not use a clothes dryer in your dwelling
- 9 Not stated

*Coverage: All respondents*

---

**What size is your clothes dryer?**

- 1 Compact (less than 125 L [28 gal.])
- 2 Standard (greater than or equal to 125 L [28 gal.])
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who use a clothes dryer in their dwelling*

---

**Does your clothes dryer have a moisture detector?**

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

*Coverage: Respondents who use a clothes dryer in their dwelling*

---

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

- 00 Winter – loads of laundry in dryer
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who use a clothes dryer in their dwelling*

---

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

- 00 Summer – loads of laundry in dryer
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who use a clothes dryer in their dwelling*

### Section C: Electrical devices

#### How many of the following electrical devices do you use in your dwelling?

...Television  
 ...Television analog/digital receiver box  
 ...Home theatre system  
 ...Video game console  
 ...DVD player (stand-alone)  
 ...VCR  
 ...Component stereo  
 ...Portable/compact stereo  
 ...Personal computer (include laptop)  
 ...Computer monitor  
 ...Computer printer  
 ...Telephone requiring an electrical outlet and phone jack (excluding cell phones)  
 ...Water cooler

- 1 Zero
- 2 One
- 3 Two
- 4 Three
- 5 Four or more
- 7 Don't know
- 9 Not stated

Coverage: All respondents

#### How old are the following electrical devices that you (most frequently) use in your dwelling?

...Television  
 ...Television analog/digital receiver box  
 ...Home theatre system  
 ...Video game console  
 ...DVD player (stand-alone)  
 ...VCR  
 ...Component stereo  
 ...Portable/compact stereo  
 ...Personal computer (include laptop)  
 ...Computer monitor  
 ...Computer printer  
 ...Telephone requiring an electrical outlet and phone jack (excluding cell phones)  
 ...Water cooler

- 1 Not applicable
- 2 5 years or less
- 3 6 to 10 years

- 4 11 to 15 years
- 5 16 years or more
- 7 Don't know
- 9 Not stated

Coverage: All respondents

#### In an average week, how many hours do you have the following (most frequently used) electrical devices turned on?

...Television  
 ...Television analog/digital receiver box  
 ...Home theatre system  
 ...Video game console  
 ...DVD player (stand-alone)  
 ...VCR  
 ...Component stereo  
 ...Portable/compact stereo

- 01 Not applicable
- 02 4 h or less
- 03 5 to 10 h
- 04 11 to 20 h
- 05 21 to 30 h
- 06 31 to 40 h
- 07 41 to 55 h
- 08 56 h or more
- 97 Don't know
- 99 Not stated

Coverage: All respondents

#### Please indicate if the following electrical devices, which you (most frequently) use in your dwelling, are an ENERGY STAR qualified product?

...Television  
 ...Home theatre system  
 ...DVD player (stand-alone)  
 ...VCR  
 ...Component stereo  
 ...Portable/compact stereo  
 ...Personal computer (including laptop)  
 ...Computer monitor  
 ...Computer printer  
 ...Water cooler

- 1 Not applicable
- 2 Yes

- 3 No
- 7 Don't know
- 9 Not stated

*Coverage: All respondents*

---

**If you . . . ?**

- 1 Have a television in your dwelling
- 2 Do not have a television in your dwelling
- 9 Not stated

*Coverage: All respondents*

---

**What type of television(s) do you have in your dwelling?**

- 1 Regular (tube)
- 2 Regular (tube) high definition (HD)
- 3 Projection
- 4 Direct light projection (DLP)
- 5 Liquid crystal display (LCD)
- 6 Plasma
- 96 Valid skip
- 99 Not stated

*Coverage: Respondents who have a television in their dwelling*

---

**If you . . . ?**

- 1 Have a television analog/digital receiver box in your dwelling
- 2 Do not have a television analog/digital receiver box in your dwelling
- 6 Valid skip
- 9 Not stated

*Coverage: Respondents who have a television in their dwelling*

---

**What type of television analog/digital receiver box do you use in your dwelling?**

- 1 Regular (analog) cable or satellite
- 2 Digital cable or satellite

- 3 Personal video recorder (PVR)
- 4 High definition (HD)
- 5 HD and PVR
- 6 Valid skip
- 9 Not stated

*Coverage: Respondents who have a television analog/digital receiver box in their dwelling*

---

**When you turn off your television, do you turn off the analog/digital receiver box?**

- 1 Always
- 2 Sometimes
- 3 Never
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who have a television analog/digital receiver box in their dwelling*

---

**If you . . . ?**

- 1 Use a computer in your dwelling
- 2 Do not use a computer in your dwelling
- 9 Not stated

*Coverage: All respondents*

---

**What type of computer do you (most frequently) use in your dwelling?**

- 1 Desktop
- 2 Laptop
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who use a computer in their dwelling*

---

**What type of computer monitor do you use with your (most frequently used) computer?**

- 1 Regular (CRT)
- 2 LCD flat panel
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who (most frequently) use a desktop computer in their dwelling*

---

**When the (most frequently used) computer is turned off, the monitor . . . ?**

- 1 Remains on in standby mode (monitor turns on automatically with the computer)
- 2 Is turned off (monitor must be manually turned on)
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who (most frequently) use a desktop computer in their dwelling*

---

**In a typical week, how many hours is the (most frequently used) computer on? Include stand-by mode.**

- 000 Weekly – number of hours the computer is on
- 996 Valid skip
- 997 Don't know
- 999 Not stated

*Coverage: Respondents who use a computer in their dwelling*

---

**In a typical week, how many hours do you spend using the (most frequently used) computer? (Include the time used downloading even if you are not present at the computer.)**

- 000 Weekly – number of hours using the computer
- 996 Valid skip
- 997 Don't know
- 999 Not stated

*Coverage: Respondents who use a computer in their dwelling*

---

**If you . . . ?**

- 1 Use a printer in your dwelling
- 2 Do not use a printer in your dwelling
- 6 Valid skip
- 9 Not stated

*Coverage: Respondents who use a computer in their dwelling*

---

**Which statement best describes how you use your (most frequently used) printer?**

- 1 The printer is manually turned on when the computer is turned on and manually turned off when the computer is turned off.
- 2 When using the computer, the printer is manually turned on only when needed and then manually turned off when not needed.
- 3 The printer is on or in stand-by mode all the time (even if the computer is off).
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who use a computer and a printer in their dwelling*

---

**Section D: Heating and cooling**


---

**In 2007, was the unit that supplied the heat to your dwelling a central unit (for your building or structure) or was it a unit specifically used by your dwelling only?**

- 1 Dwelling unit
- 2 Central unit
- 7 Don't know
- 9 Not stated

*Coverage: All respondents*

---

**In 2007, did you use a heat pump? A heat pump is an electrical device that can be used for heating and for cooling. It is typically located outdoors if it uses air source and indoors if it uses ground source (earth or water).**

- 1 Yes
- 2 No

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

*Coverage: Respondents whose heat was supplied by a dwelling unit*

---

**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

*Coverage: Respondents whose heat was supplied by a dwelling unit and who used a heat pump*

---

**How old is your heat pump (please round up)?**

- 00 Specific age of heat pump in years
- 01 5 years or less
- 02 6 to 10 years
- 03 11 to 15 years
- 04 16 to 20 years
- 05 21 to 25 years
- 06 26 years or more
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents whose heat was supplied by a dwelling unit and who used a heat pump*

---

**Is your heat pump an ENERGY STAR qualified product?**

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

*Coverage: Respondents whose heat was supplied by a dwelling unit and who used a heat pump*

---

**Was your heat pump the main source of heat for your dwelling?**

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

*Coverage: Respondents whose heat was supplied by a dwelling unit and who used a heat pump*

---

**In 2007, what type of heating equipment provided most of the heat for your dwelling?**

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

*Coverage: Respondents whose heat was supplied by a dwelling unit, and who did not use a heat pump or used a heat pump that was not the main source of heat for their dwelling*

---

**What source(s) of energy did your furnace/boiler/heating stove use? Please exclude the energy used for running the fan.**

- 1 Electricity
- 2 Natural gas
- 3 Oil
- 4 Wood
- 5 Wood pellets
- 6 Propane
- 7 Other
- 96 Valid skip
- 99 Not stated

*Coverage: Respondents whose heat was supplied by a dwelling unit and who had a furnace, boiler or heating stove providing most of the heat for their dwelling*

**If you . . . ?**

- 1 Use a boiler in your dwelling
- 2 Use a furnace in your dwelling
- 3 Use a heating stove in your dwelling
- 6 Valid skip
- 9 Not stated

*Coverage: Respondents whose heat was supplied by a dwelling unit and who had a furnace, boiler or heating stove providing most of the heat for their dwelling*

**Is your boiler an ENERGY STAR qualified product?**

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

*Coverage: Respondents whose heat was supplied by a dwelling unit and who used a boiler in their dwelling*

**Is your furnace an ENERGY STAR qualified product?**

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

*Coverage: Respondents whose heat was supplied by a dwelling unit and who used a furnace in their dwelling*

**What is the efficiency rating for your furnace?**

- 1 High (the exhaust pipe is plastic and vents through the side of the house)
- 2 Medium (the exhaust pipe is metal and vents through the side of the house or through the roof)
- 3 Low (the exhaust pipe is metal and vents through the roof)
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents whose heat was supplied by a dwelling unit and who used a furnace in their dwelling*

**How old is your heating equipment?**

- 00 Specific age of heating equipment in years
- 01 5 years or less
- 02 6 to 10 years
- 03 11 to 15 years
- 04 16 to 20 years
- 05 21 to 25 years
- 06 26 years or more
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents whose heat was supplied by a dwelling unit and who used a heat pump that was not the main source of heat for their dwelling*

**How many of the following types of thermostats are used in your dwelling?**

- 01 Number of mechanical – built-in units
- 02 Number of mechanical – wall units
- 03 Number of electronic – non-programmable
- 04 Number of electronic – programmable
- 97 Don't know
- 99 Not stated

*Coverage: All respondents*

**In 2007, in addition to your main heating equipment, did your household use any other supplementary heating equipment?**

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

*Coverage: All respondents*

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

- 01 Electric baseboards
- 02 Portable electric heater
- 03 Wood stove
- 04 Wood fireplace
- 05 Gas fireplace
- 06 Electric fireplace
- 07 Furnace

- 08 Radiant floor heating
- 09 Other
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who indicated that their household used supplementary heating equipment in addition to their main heating equipment*

---

**If you . . . ?**

- 1 Used a supplementary furnace in your dwelling
- 2 Did not use a supplementary furnace in your dwelling
- 6 Valid skip
- 9 Not stated

*Coverage: Respondents who indicated that their household used supplementary heating equipment in addition to their main heating equipment*

---

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

- 1 Electricity
- 2 Natural gas
- 3 Oil
- 4 Wood
- 5 Oil
- 6 Valid skip
- 9 Not stated

*Coverage: Respondents who used a supplementary furnace in their dwelling*

---

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

- 000 Weekly hours supplementary heating is used
- 995 Unsure, the heating equipment uses a thermostat
- 996 Valid skip
- 997 Don't know
- 999 Not stated

*Coverage: Respondents who used supplementary heating equipment in their dwelling*

---

**If you . . . ?**

- 1 Used wood or wood pellets for heating
- 2 Did not use wood or wood pellets for heating

*Coverage: All respondents*

---

**On average how much wood do you burn in a heating season?**

...Unit of measure

...Amount

- 01 Full or bush cord
- 02 Face or stove cord
- 03 Full-sized pick-up truck (8 ft. box)
- 04 Compact-sized pick-up truck (6 ft. box)
- 05 Bag of firewood (64 bags = one full or bush cord)
- 06 Log (1 log = 16 in. long)
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who used wood or wood pellets for heating*

---

**What type of wood did you use?**

- 1 Hardwood
- 2 Softwood
- 3 Hardwood and softwood (mixed)
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who used wood or wood pellets for heating*

---

**If you used wood pellets, what was the quantity consumed in the past 12 months?**

- 01 Did not use wood pellets
- 02 500 lb. (228 kg) or less
- 03 501 to 1000 lb. (229 to 455 kg)
- 04 1001 to 2500 lb. (455 to 909 kg)
- 05 2501 to 4000 lb. (910 to 1818 kg)
- 06 4001 to 5500 lb. (1819 to 2500 kg)
- 07 5501 lb. (2501 kg) or more

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

*Coverage: Respondents who used wood or wood pellets for heating*

---

**Do you have a fireplace (wood, gas or electric) in your dwelling?**

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

*Coverage: All respondents*

---

**In 2007, how many wood-burning fireplaces did you have in your dwelling?**

- 00 Number of wood-burning fireplaces
- 95 None
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who have a fireplace (wood, gas or electric) in their dwelling*

---

**In 2007, how many electric fireplaces did you have in your dwelling?**

- 00 Number of electric fireplaces
- 95 None
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who have a fireplace (wood, gas, or electric) in their dwelling*

---

**Is the primary purpose of the electric fireplace(s) to provide heat or for aesthetics?**

- 1 Primarily for heat
- 2 Primarily for aesthetics
- 3 For both heat and aesthetics
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who had an electric fireplace in their dwelling*

---

**In 2007, how many gas-burning fireplaces did you have in your dwelling?**

- 00 Number of gas-burning fireplaces
- 95 None
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who have a fireplace (wood, gas or electric) in their dwelling*

---

**What source(s) of energy did your gas-burning fireplace use?**

- 1 Natural gas
- 2 Propane
- 3 Other
- 6 Valid skip
- 9 Not stated

*Coverage: Respondents who had a gas-burning fireplace in their dwelling*

---

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

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

*Coverage: Respondents who had a gas-burning fireplace in their dwelling*



---

**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
- 9 Not stated

*Coverage: Respondents who had a gas-burning fireplace in their dwelling*

---

**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
- 9 Not stated

*Coverage: Respondents who had a gas-burning fireplace in their dwelling*

---

**In 2007, did you have air conditioning for your dwelling?**

- 1 Yes – central air conditioning
- 2 Yes – window/room air conditioning
- 3 No
- 7 Don't know
- 9 Not stated

*Coverage: All respondents*

---

**How old is your central air conditioner?**

- 00 Age of central air conditioner
- 01 5 years or less
- 02 6 to 10 years
- 03 11 to 15 years
- 04 16 to 20 years

- 05 21 to 25 years
- 06 26 years or more
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who had central air conditioning for their dwelling*

---

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

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

*Coverage: Respondents who had central air conditioning for their dwelling*

---

**In 2007, how many window/room air conditioners did you use?**

- 00 Number of window air conditioners
- 96 Valid skip
- 97 Don't know
- 99 Not stated

*Coverage: Respondents who had window/room air conditioning for their dwelling*

---

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

- 1 Window-mounted (louvred) unit
- 2 Through the wall-mounted (non-louvred) unit
- 3 Free-standing portable unit
- 4 Mini-split air conditioner
- 5 Wall-mounted heat pump/air conditioner
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who had window/room air conditioning for their dwelling*

---

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

- 00000 Specific cooling capacity – air conditioner  
 99996 Valid skip  
 99997 Don't know  
 99999 Not stated

*Coverage: Respondents who had window/room air conditioning for their dwelling*

---

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

- 00 Age of window air conditioner  
 01 5 years or less  
 02 6 to 10 years  
 03 11 to 15 years  
 04 16 to 20 years  
 05 21 to 25 years  
 06 26 years or more  
 96 Valid skip  
 97 Don't know  
 99 Not stated

*Coverage: Respondents who had window/room air conditioning for their dwelling*

---

**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

*Coverage: Respondents who had window/room air conditioning for their dwelling*

**Section E: Energy consumption**


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**Does your household use any other energy sources besides electricity, natural gas, heating oil, propane or wood in your dwelling?**

- 1 Yes  
 2 No

- 7 Don't know  
 9 Not stated

*Coverage: All respondents*

---

**Which one(s) . . . ?**

- 1 Solar  
 2 Wind power  
 3 Other  
 6 Valid skip  
 9 Not stated

*Coverage: Respondents whose household uses other energy sources besides electricity, natural gas, heating oil, propane or wood in their dwelling*

---

**Is anyone in your dwelling responsible for paying the bills for any of the following: electricity, natural gas, heating oil, propane?**

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

*Coverage: All respondents*

---

**In 2007, on an average weekday, was there someone at home all day?**

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

*Coverage: All respondents*

---

**In 2007, for how many complete weeks was there no one at your dwelling?**

- 00 Number of complete weeks no one was home  
 95 None  
 97 Don't know  
 99 Not stated

*Coverage: All respondents*

## Households and the Environment Survey: Phase One – Energy-related questions

### Section: Dwelling characteristics

#### In what year was this dwelling originally built?

- 00 Specific year dwelling was built
- 1 Before 1946
- 2 Between 1946 and 1960
- 3 Between 1961 and 1977
- 4 Between 1978 and 1983
- 5 Between 1984 and 1995
- 6 Between 1996 and 2000
- 7 Between 2001 and 2005
- 8 2006 or later
- 97 Don't know
- 98 Refusal

*Coverage: All respondents*

#### Are you the owner of this dwelling, or is the dwelling owned by a member of this household?

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

*Coverage: All respondents*

#### Is the dwelling part of a condominium?

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

*Coverage: Respondents living in a townhouse, low-rise apartment or high-rise apartment*

#### Is the condominium corporation/landlord/property manager responsible for paying any of the energy bills for the dwelling?

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

*Coverage: Respondents who do not own their dwelling or currently reside in a condominium*

#### How long have you or your household lived in this dwelling?

- 00 How long lived in this dwelling
- 1 Months
- 2 Years
- 9 Not stated
- 97 Don't know
- 98 Refusal

*Coverage: All respondents*

### Section: Energy use and home heating

#### What is your dwelling's main type of heating equipment?

- 1 Furnace with forced air (hot air vents)
- 2 Electric baseboards
- 3 Heating stove
- 4 Boiler with hot water or steam radiators
- 5 Electric radiant heating
- 6 Heat pump
- 7 Other – specify
- 97 Don't know

*Coverage: All respondents*

---

**What source of energy does your furnace/boiler/heating stove/other use?**

- 1 Electricity
- 2 Natural gas
- 3 Heating oil
- 4 Wood or wood pellets
- 5 Propane
- 6 Other – specify
- 7 Don't know
- 8 Valid skip
- 9 Not stated

*Coverage: Respondents who do not use electric baseboards, electric radiant heat or a heat pump as the main type of heating equipment in their dwelling*

---

**Does your dwelling have an air conditioner?**

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

*Coverage: All respondents*

---

**Is it a . . . ?**

- 1 Central-air system
- 2 Stand-alone unit in a window or elsewhere
- 3 Other – specify
- 6 Valid skip
- 7 Don't know
- 9 Not stated

*Coverage: Respondents who have an air conditioner*

---

**Do you have a thermostat?**

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

*Coverage: All respondents*

---

**How many thermostats do you have?**

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

*Coverage: Respondents who have at least one thermostat in their dwelling*

---

**Is your main thermostat programmable? This is, it can be set to automatically change the temperature according to the time of day.**

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

*Coverage: Respondents who have at least one thermostat in their dwelling*

---

**Is it programmed?**

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

*Coverage: Respondents who have a programmable thermostat in their home*

---

**During the winter season, at what temperature is the dwelling usually kept when you are there and awake?**

- 00 Winter, temperature when you are awake
- 96 Valid skip
- 97 Don't know
- 98 Refusal
- 99 Not stated

*Coverage: Respondents who have at least one thermostat in their dwelling*

---

**During the winter season, at what temperature is the dwelling usually kept when you are asleep?**

- 00 Winter, temperature when you are asleep
- 96 Valid skip
- 97 Don't know
- 98 Refusal
- 99 Not stated

*Coverage: Respondents who have at least one thermostat in their dwelling*

---

**During the summer season, at what temperature is the dwelling usually kept when you are there and awake?**

- 00 Summer, temperature when you are awake
- 96 Valid skip
- 97 Don't know
- 98 Refusal
- 99 Not stated

*Coverage: Respondents who have central air conditioning in their home and can control or regulate the temperature in their dwelling*

---

**During the summer season, at what temperature is the dwelling usually kept when you are asleep?**

- 00 Summer, temperature when you are asleep
- 96 Valid skip
- 97 Don't know
- 98 Refusal
- 99 Not stated

*Coverage: Respondents who have central air conditioning in their home and can control or regulate the temperature in their dwelling*

---

**During the summer season, at what temperature is the dwelling usually kept when you are not at home?**

- 00 Summer, temperature when you are away
- 96 Valid skip
- 97 Don't know
- 98 Refusal
- 99 Not stated

*Coverage: Respondents who have central air conditioning in their home and can control or regulate the temperature in their dwelling*

---

**Do you have the following types of energy-saving lights?**

- 1 Compact fluorescent lights (for example, corkscrew or spiral)
- 2 Fluorescent tubes
- 3 Halogen light
- 4 LED holiday lights
- 5 None of the above – household does not have any energy-saving lights
- 7 Don't know
- 8 Refusal

*Coverage: All respondents*

---

**Please indicate if you or anyone in your household does any of the following.**

**Do you . . . ?**

- 1 Use dimmers on household lights
- 2 Unplug electronics when you are away for an extended period of time
- 3 Reduce heating or cooling in certain areas of the dwelling (for example, by blocking or closing vents or sealing off unused areas of the dwelling seasonally)
- 4 Use a clothesline or drying rack to dry clothing
- 5 Use fans for cooling in the summer
- 6 Close the blinds or drapes in your dwelling during the hottest part of the day
- 7 Put plastic film on windows in the winter
- 8 Put on more clothing, such as a sweater, instead of adjusting the temperature
- 9 None of the above activities

*Coverage: All respondents*

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**Section: Water**

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**Do you have a water-saving, low-flow showerhead?**

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

*Coverage: All respondents*

---

**In the last 12 months, how often did you/someone ensure that the washing machine was full (of clothing) before it was turned on?**

- 1 Always
- 2 Often
- 3 Sometimes
- 4 Rarely
- 5 Never
- 6 Do not have a washing machine in the dwelling
- 97 Don't know
- 98 Refusal

*Coverage: All respondents*

---

**In the last 12 months how often did you/someone ensure that the dishwasher was full before it was turned on?**

- 1 Always
- 2 Often
- 3 Sometimes
- 4 Rarely
- 5 Never
- 6 Do not have a dishwasher in the dwelling
- 97 Don't know
- 98 Refusal

*Coverage: All respondents*

### Section: Indoor environment

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**How often has the filter in your furnace been changed or cleaned during the last 12 months?**

- 1 Every 3 months or more frequently
- 2 Every 6 months
- 3 Once in a year
- 4 Did not change or clean filter in the past year
- 6 Valid skip
- 7 Don't know
- 8 Refusal
- 9 Not stated

*Coverage: All respondents who have a forced air furnace.*

### Section: Purchasing decisions

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**Did you or anyone in your household purchase any major appliances in the last five years? This includes stoves, refrigerators, dishwashers, freezers, washers or dryers.**

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

*Coverage: All respondents*

---

**Which two of the following factors were the most important the last time you purchased a major appliance?**

**Was it . . . ?**

- 1 Energy or water consumption
- 2 Reliability
- 3 Price
- 4 Features
- 5 Other
- 6 Valid skip
- 7 Don't know
- 8 Refusal
- 9 Not stated

*Coverage: All respondents who purchased any major appliance in the last five years*