



Households and the Environment Survey:

Energy Use

Confidential when completed.

Collected under the authority of the *Statistics Act*,
Revised Statutes of Canada, 1985, S-19.

Aussi disponible en français

Form No.

3

INTRODUCTION

Statistics Canada in collaboration with Natural Resources Canada is conducting a survey on household energy use. This is part of a larger study aimed at better understanding the impacts that the household sector has on resource use, and consequently on the environment. The survey results will be a valuable source of information to be used in the development of energy efficiency initiatives and to support energy conservation practices in Canada. The efficient use of energy means not only cost-savings to Canadians, but lessens the impact Canadians have on global climate change.

While participation in this survey is voluntary, your cooperation is very important in order to provide an accurate and complete picture of household energy use in Canada. This survey asks questions about home heating and cooling, the physical features of the building and energy consumption.

CONFIDENTIAL WHEN COMPLETED.

To complete your paper questionnaire:

- Read the instructions carefully;
- Use a blue or black ballpoint pen;
- Print clearly in capitals in the middle of the box as follows:

C	A	2	4		
---	---	---	---	--	--
- If you make an error, cross out the character(s) that is (are) wrong, and continue:

B	E	C	A	0	4
--------------	--------------	--------------	---	---	---
- Mark squares with an "X" as follows: "X";
- To change an answer in a square, black out the incorrect response "■" and mark the correct one "X";
- Mail back your completed questionnaire in the envelope provided.

If you have any questions about this survey, please contact the Operations and Integration Division toll-free at 1-866-334-3535.

Address Label:



SECTION A – BUILDING CHARACTERISTICS

In this section, you will be asked questions to determine the characteristics of the building.

A1. In what year was this building originally built? Year

If the exact year is unknown, please indicate the range:

- Mark one only
- | | |
|--|--|
| ⁰¹ <input type="checkbox"/> Before 1946 | ⁰⁶ <input type="checkbox"/> 1996 - 2000 |
| ⁰² <input type="checkbox"/> 1946 - 1960 | ⁰⁷ <input type="checkbox"/> 2001 - 2005 |
| ⁰³ <input type="checkbox"/> 1961 - 1977 | ⁰⁸ <input type="checkbox"/> 2006 or later |
| ⁰⁴ <input type="checkbox"/> 1978 - 1983 | ⁹⁷ <input type="checkbox"/> Don't know |
| ⁰⁵ <input type="checkbox"/> 1984 - 1995 | |

A2. How many storeys does this building have? Include storeys below ground and penthouses. Exclude storeys used only as indoor parking.

- Mark one only
- Storeys
- ⁷ Don't know

A3. How many apartments does this building have? Include guest suites and penthouses.

- Mark one only
- Apartments
- ⁷ Don't know

A4. What is the building built over (foundation)?

- Mark all that apply
- | | |
|--|---|
| ⁰¹ <input type="checkbox"/> Indoor parking garage | ⁰⁵ <input type="checkbox"/> Pillars |
| ⁰² <input type="checkbox"/> Basement | ⁰⁶ <input type="checkbox"/> Other – Specify <input type="text"/> |
| ⁰³ <input type="checkbox"/> Crawl space | ⁰⁷ <input type="checkbox"/> No foundation |
| ⁰⁴ <input type="checkbox"/> Concrete slabs | ⁹⁷ <input type="checkbox"/> Don't know |

A5. If you have indicated that the building...

- Mark one only
- ¹ has an indoor parking garage → (Go to question: A6)
- ² does not have an indoor parking garage → (Go to question: A8)

A6. Is the indoor parking garage heated?

- Mark one only
- ¹ Yes → (Go to question: A7)
- ² No } (Go to question: A8)
- ⁷ Don't know }

SECTION A – BUILDING CHARACTERISTICS

A7. What is the size of the heated area of the indoor parking garage?

Mark one only

Square feet (ft²) or Square meters (m²)

If the exact size is unknown, please indicate the range:

- | | |
|---|---|
| 01 <input type="checkbox"/> 600 ft ² (55 m ²) or less | 07 <input type="checkbox"/> 1,601 - 1,800 ft ² (150 - 167 m ²) |
| 02 <input type="checkbox"/> 601 - 800 ft ² (56 - 74 m ²) | 08 <input type="checkbox"/> 1,801 - 2,000 ft ² (168 - 185 m ²) |
| 03 <input type="checkbox"/> 801 - 1,000 ft ² (75 - 93 m ²) | 09 <input type="checkbox"/> 2,001 - 2,200 ft ² (186 - 204 m ²) |
| 04 <input type="checkbox"/> 1,001 - 1,200 ft ² (94 - 111 m ²) | 10 <input type="checkbox"/> 2,201 - 2,500 ft ² (205 - 230 m ²) |
| 05 <input type="checkbox"/> 1,201 - 1,400 ft ² (112 - 130 m ²) | 11 <input type="checkbox"/> 2,501 ft ² (231 m ²) or more |
| 06 <input type="checkbox"/> 1,401 - 1,600 ft ² (131 - 149 m ²) | 97 <input type="checkbox"/> Don't know |

A8. If you have indicated that the building...

Mark one only

- 1 has a basement or a crawl space → (Go to question: A9)
- 2 does not have a basement or a crawl space → (Go to question: A11)

A9. During the heating season, is the basement or crawl space usually heated?

Mark one only

- 1 Yes → (Go to question: A11)
- 2 No } (Go to question: A11)
- 7 Don't know }

A10. What is the heated area of the basement or crawl space?

Mark one only

Square feet (ft²) or Square meters (m²)

If the exact size is unknown, please indicate the range:

- | | |
|---|---|
| 01 <input type="checkbox"/> 600 ft ² (55 m ²) or less | 05 <input type="checkbox"/> 2,001 - 2,500 ft ² (186 - 230 m ²) |
| 02 <input type="checkbox"/> 601 - 1,000 ft ² (56 - 95 m ²) | 06 <input type="checkbox"/> 2,501 - 3,000 ft ² (231 - 279 m ²) |
| 03 <input type="checkbox"/> 1,001 - 1,500 ft ² (96 - 140 m ²) | 07 <input type="checkbox"/> 3,001 ft ² (280 m ²) or more |
| 04 <input type="checkbox"/> 1,501 - 2,000 ft ² (141 - 185 m ²) | 97 <input type="checkbox"/> Don't know |

A11. What is the heated area of the entire building (exclude the basement and garage)?

Mark one only

Square feet (ft²) or Square meters (m²)

If the exact size is unknown, please indicate the range:

- | | |
|---|---|
| 01 <input type="checkbox"/> 1,500 ft ² (139 m ²) or less | 07 <input type="checkbox"/> 24,001 - 30,000 ft ² (2,231 - 2,787 m ²) |
| 02 <input type="checkbox"/> 1,501 - 3,000 ft ² (140 - 279 m ²) | 08 <input type="checkbox"/> 30,001 - 38,000 ft ² (2,788 - 3,530 m ²) |
| 03 <input type="checkbox"/> 3,001 - 6,000 ft ² (280 - 557 m ²) | 09 <input type="checkbox"/> 38,001 - 46,000 ft ² (3,531 - 4,273 m ²) |
| 04 <input type="checkbox"/> 6,001 - 12,000 ft ² (558 - 1,115 m ²) | 10 <input type="checkbox"/> 46,001 - 52,000 ft ² (4,274 - 5,017 m ²) |
| 05 <input type="checkbox"/> 12,001 - 18,000 ft ² (1,116 - 1,672 m ²) | 11 <input type="checkbox"/> 52,001 ft ² (5,018 m ²) or more |
| 06 <input type="checkbox"/> 18,001 - 24,000 ft ² (1,673 - 2,230 m ²) | 97 <input type="checkbox"/> Don't know |

SECTION A – BUILDING CHARACTERISTICS

A12. Does this building have an attic or a crawlspace (a space between the roof and the top floor of the building)?

Mark one only

- 1 Yes → (Go to question: A13)
- 2 No } (Go to question: A14)
- 7 Don't know }

A13. Is the attic or crawl space insulated?

Mark one only

- 1 Yes – on the attic / crawlspace floor
- 2 Yes – on the attic / crawlspace walls
- 3 Yes – on both the attic / crawlspace floor and walls
- 4 No
- 7 Don't know

A14. Have you made any of the following improvements to the building that reduces energy consumption? For each improvement made, please indicate the most recent year that it was completed.

Mark all that apply

- 01 No improvements were made } (Go to question: A15)
- 97 Don't know
- 02 The roof structure or surface Year
- 03 The heating equipment (include fireplaces and woodstoves) Year
- 04 Windows (include patio doors) Year
- 05 The caulking or weather-stripping around your windows or doors Year
- 06 The insulation of the basement or crawl space walls Year
- 07 The exterior wall siding Year
- 08 The insulation around the hot water pipes Year
- 09 The insulation of the roof or the attic Year
- 10 The insulation of any exterior walls (excluding basement) Year
- 11 Exterior doors (include garage door(s)) Year
- 12 Installed a programmable thermostat Year
- 13 The ventilation or central air conditioning equipment Year
- 14 The foundation Year
- 15 Other – Specify Year
- 16 Other – Specify Year

(Go to question: A16)

SECTION A – BUILDING CHARACTERISTICS

A15. What is the main reason why no improvements were made to the building?

Mark one only

- 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 Building was recently purchased or built
- 06 Improvements are too costly
- 07 Do not have time
- 08 No government financial aid or assistance
- 09 Other – Specify _____
- 97 Don't know

A16. Is the hot water heater located within the apartment(s) or is there a central hot water heater for the entire building?

Mark one only

- 1 Central hot water heater → (Go to question: A17)
- 2 Apartment hot water heater } (Go to question: A23)
- 7 Don't know

A17. What type of hot water heater is used in the building?

Mark one only

- 1 Standard hot water tank
- 2 Tankless (instantaneous water heater)
- 3 Boiler
- 4 Combination boiler (typically a wall hung unit)
- 5 Other – Specify _____
- 7 Don't know

A18. What source of energy does the water heater use?

Mark one only

- 1 Electricity
- 2 Oil
- 3 Natural gas
- 4 Propane
- 5 Solar
- 6 Other source
- 7 Don't know

A19. How old is the hot water heater? _____ Years

If the exact age is unknown, please indicate the range:

Mark one only


- 1 5 years or less
- 2 6 to 10 years
- 3 11 to 15 years
- 4 16 to 20 years
- 5 21 to 25 years
- 6 26 years or more
- 7 Don't know

SECTION A – BUILDING CHARACTERISTICS

A20. Did you replace a previous hot water tank with the current hot water heater?

- Mark one only
- 1 Yes  (Go to question: A21)
- 2 No } (Go to question: A23)
- 7 Don't know }

A21. Was the previous hot water tank still working when it was replaced?

- Mark one only
- 1 Yes } (Go to question: A22)
- 2 No }
- 7 Don't know  (Go to question: A23)







A22. How old was the previous hot water tank when it was replaced? Years

If the exact age is unknown, please indicate the range:

- Mark one only
- 1 5 years or less
- 2 6 to 10 years
- 3 11 to 15 years
- 4 16 to 20 years
- 5 21 to 25 years
- 6 26 years or more
- 7 Don't know

A23. What type of windows (including patio doors) are the majority in the building?

Mark one only

- 01 Standard single pane with storm window. 
- 02 Standard single pane 
- 03 Standard double pane 
- 04 Standard double pane sealed unit  Space filled with air
- 05 Standard triple pane sealed unit  Space filled with air
- 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 – Specify
- 97 Don't know
-  } Space filled with Inert Gas such as Argon

SECTION A – BUILDING CHARACTERISTICS

A24. How old are the majority of the windows in the building?

**Mark one
only**

- 1 5 years or less
- 2 6 to 10 years
- 3 11 to 15 years
- 4 16 years or more
- 5 Same age as building
- 7 Don't know

END OF SECTION

FOR INFORMATION ONLY

SECTION B – HEATING AND COOLING

In this section, you will be asked questions about your heating and cooling systems for the building. Please give your best estimates when answering the questions.

B1. In 2007, was the system that supplied the heat to the building, a central system or was it individual systems specifically used by the individual dwellings?

Mark one only

- 1 Dwelling unit
2 Central unit
7 Don't know

B2. In 2007, did the building have 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).

Mark one only

- 1 Yes → (Go to question: B3)
2 No } (Go to question: B7)
7 Don't know }

B3. Was the heat pump an air source or ground source (earth energy system)?

Mark one only

- 1 Air source
2 Ground source
7 Don't know

B4. How old is the heat pump (please round up)? Years

If the exact age is unknown, please indicate the range:

Mark one only

- 1 5 years or less
2 6 to 10 years
3 11 to 15 years
4 16 to 20 years
5 21 to 25 years
6 26 years or more
7 Don't know

B5. Is the heat pump an Energy Star qualified product?

Mark one only

- 1 Yes
2 No
7 Don't know



B6. Was the heat pump the main source of heat for the building?

Mark one only

- 1 Yes → (Go to question: B14)
2 No } (Go to question: B7)
7 Don't know }

SECTION B – HEATING AND COOLING

B7. In 2007, what type of heating equipment provided most of the heat for the building?

Mark one only

- 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 – Specify
 97 Don't know



(Go to question: B8)



(Go to question: B13)

B8. What source(s) of energy did the furnace / boiler / heating stove use?

Please exclude the energy used for running the fan.

Mark all that apply

- | | |
|---|--|
| 01 <input type="checkbox"/> Electricity | 05 <input type="checkbox"/> Wood pellets |
| 02 <input type="checkbox"/> Natural gas | 06 <input type="checkbox"/> Propane |
| 03 <input type="checkbox"/> Oil | 07 <input type="checkbox"/> Other – Specify <input type="text"/> |
| 04 <input type="checkbox"/> Wood | 97 <input type="checkbox"/> Don't know |

B9. If the building ...

Mark one only

- 1 uses a boiler → (Go to question: B10)
 2 uses a furnace → (Go to question: B11)
 3 uses a heating stove → (Go to question: B13)

B10. Is the boiler an Energy Star qualified product?

Mark one only

- 1 Yes
 2 No
 7 Don't know

(Go to question: B13)



B11. Is the furnace an Energy Star qualified product?

Mark one only

- 1 Yes
 2 No
 7 Don't know



B12. What is the efficiency rating for the furnace?

Mark one only

- 1 High (The exhaust pipe **is plastic and vents through the side of the building**)
 2 Medium (The exhaust pipe **is metal and vents through the side of the building or through the roof**)
 3 Low (The exhaust pipe **is metal and vents through the roof**)
 7 Don't know

SECTION B – HEATING AND COOLING

B13. How old is the heating equipment? Years

If the exact age is unknown, please indicate the range:

Mark one only

- 1 5 years or less
- 2 6 to 10 years
- 3 11 to 15 years
- 4 16 to 20 years
- 5 21 to 25 years
- 6 26 years or more
- 7 Don't know

B14. In 2007, did the building have central air conditioning for the entire building?

Mark one only

- 1 Yes → (Go to question: B15)
 - 2 No
 - 7 Don't know
- } (Go to question: C1)

B15. How old is the central air conditioner? Years

If the exact age is unknown, please indicate the range:

Mark one only

- 1 5 years or less
- 2 6 to 10 years
- 3 11 to 15 years
- 4 16 to 20 years
- 5 21 to 25 years
- 6 26 years or more
- 7 Don't know

B16. Is the central air conditioner an Energy Star qualified product?

Mark one only

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



END OF SECTION

SECTION C – ENERGY CONSUMPTION

In this section, we are interested in obtaining accurate and complete information about the amount and type of energy (electricity, natural gas, heating oil, and propane) that the building consumes.

C1. In 2007, as the landlord / property manager, were you responsible for paying any of the following energy bills?

Mark all that apply

- 01 Electricity
 02 Natural gas
 03 Heating oil
 04 Propane
 06 None of the above
 07 Don't know

(Go to question: D1)

C2. The most accurate and efficient way for us to collect the energy consumption data is by directly contacting energy supplier(s). The only information that Statistics Canada will give to the energy supplier(s) will be your name, address, and account number. No other responses that you provide for this survey will be given to the energy supplier(s). The only data that will be collected from the energy supplier(s) will be the energy consumption amount for the 2007 calendar year. No other information (such as payment amounts, payment status, etc.) will be collected.

Another way of collecting the energy consumption data is by providing us with your billing information for the past 14 months. Use the tables provided at the end of this section to record your energy consumption data.

C3. Do you agree to let Statistics Canada obtain the energy consumption data for the building from the energy supplier(s)?

Mark one only

- 1 Yes —————▶ (Go to question: C4)
 2 No —————▶ (Go to question: C8)

C4. Please select one energy type and fill out the following account information for the energy supplier:

Mark one only

- 1 Electricity 2 Natural gas 3 Heating oil 4 Propane

I authorize Statistics Canada to release information about the account number and the name of the account holder to the energy company listed below.

I authorize the company below to provide Statistics Canada with the consumption of energy used by the building identified on this form for the 2007 calendar year.

Name of energy company

Account number

Account holder – Last name

Account holder – First name

Telephone number of energy company

 - -

Extension

SECTION C – ENERGY CONSUMPTION

C5. Would you like to provide the contact information for another energy supplier?

Mark one only

- 1 Yes → (Go to question: C6)
 2 No → (Go to question: C7)

C6. Please select another energy type and fill out the following account information for the energy supplier:

Mark one only

- 1 Electricity 2 Natural gas 3 Heating oil 4 Propane

I authorize Statistics Canada to release information about the account number and the name of the account holder to the energy company listed below.

I authorize the company below to provide Statistics Canada with the consumption of energy used by the building identified on this form for the 2007 calendar year.

Name of energy company

Account number

Account holder – Last name

Account holder – First name

Telephone number of energy company

 - -

Extension

C7. Did you agree to let Statistics Canada contact all of your energy supplier(s) to obtain your building's energy consumption data?

Mark one only

- 1 Yes → (Go to question: C10)
 2 No → (Go to question: C8)

C8. For the following question, please obtain the energy bills (covering the past 14 month period) for the energy supplier(s) that you would not like Statistics Canada to contact to obtain the energy consumption information. Sort the energy bills in ascending order by energy supplier. Use the information from the energy bills to complete the required energy consumption tables.

C9. Please indicate which energy bill(s) you would like to supply the consumption information:

Mark all that apply

- 1 Electricity → Please complete **Table A**
 2 Natural gas → Please complete **Table B**
 3 Heating oil → Please complete **Table C**
 4 Propane → Please complete **Table D**

C10. In 2007, were all of the building's energy bills strictly for the energy consumed by households within the building?

In other words, no other charges for operating a farm or a business (hairdresser, childcare, etc.) are included in the energy bills.

Mark one only

- 1 Yes → (Go to question: D1)
 2 No → (Go to question: C11)
 7 Don't know → (Go to question: D1)

SECTION C – ENERGY CONSUMPTION

C11. In 2007, approximately what percentage of the electricity consumption on the bills was strictly for the households within the building?

Mark one only

1 Not applicable % 7 Don't know

C12. In 2007, approximately what percentage of the natural gas consumption on the bills was strictly for the households within the building?

Mark one only

1 Not applicable % 7 Don't know

C13. In 2007, approximately what percentage of the heating oil consumption on the bills was strictly for the households within the building?

Mark one only

1 Not applicable % 7 Don't know

C14. In 2007, approximately what percentage of the propane consumption on the bills was strictly for the households within the building?

Mark one only

1 Not applicable % 7 Don't know

END OF SECTION

FOR INFORMATION ONLY

TABLE A – ELECTRICITY CONSUMPTION

Please obtain all of the electricity bills covering the past 14 month consumption period. Sort the electricity bills in ascending order. Please complete the table below with the information from your electricity bills.

Note: If you have one or more recent electricity bills, the previous month's consumption summary may be available on the bills. You can use that information to transcribe the energy consumption for all 14 months without having to produce all bills.

	Start date (DD/MM/YY)	End date (DD/MM/YY)	Number of days covered	Unit of measure		Energy consumption
				(kW)	(GJ)	
Bill #1	/ /	/ /		1	2	
Bill #2	/ /	/ /		1	2	
Bill #3	/ /	/ /		1	2	
Bill #4	/ /	/ /		1	2	
Bill #5	/ /	/ /		1	2	
Bill #6	/ /	/ /		1	2	
Bill #7	/ /	/ /		1	2	
Bill #8	/ /	/ /		1	2	
Bill #9	/ /	/ /		1	2	
Bill #10	/ /	/ /		1	2	
Bill #11	/ /	/ /		1	2	
Bill #12	/ /	/ /		1	2	
Bill #13	/ /	/ /		1	2	
Bill #14	/ /	/ /		1	2	

TABLE B – NATURAL GAS CONSUMPTION

Please obtain all of the natural gas bills covering the past 14 month consumption period. Sort the natural gas bills in ascending order. Please complete the table below with the information from your natural gas bills.

	Start date (DD/MM/YY)	End date (DD/MM/YY)	Number of days covered	Unit of measure		Energy consumption
				(kW)	(GJ)	
Bill #1	/ /	/ /		1	2	
Bill #2	/ /	/ /		1	2	
Bill #3	/ /	/ /		1	2	
Bill #4	/ /	/ /		1	2	
Bill #5	/ /	/ /		1	2	
Bill #6	/ /	/ /		1	2	
Bill #7	/ /	/ /		1	2	
Bill #8	/ /	/ /		1	2	
Bill #9	/ /	/ /		1	2	
Bill #10	/ /	/ /		1	2	
Bill #11	/ /	/ /		1	2	
Bill #12	/ /	/ /		1	2	
Bill #13	/ /	/ /		1	2	
Bill #14	/ /	/ /		1	2	

TABLE C – HEATING OIL CONSUMPTION

Please obtain the most recent heating oil bills. Sort the heating oil bills in ascending order. Please complete the table below with the information from your heating oil bills.

If you can not locate your most recent heating oil bills, please provide your best estimate.

	Start date (DD/MM/YY)	Unit of measure		Amount of oil purchased	Actual (from bills)	Estimate
		(Litres)	(Gallons)			
Bill #1	□□ / □□ / □□	1 □	2 □	□□□□□□	3 □	4 □
Bill #2	□□ / □□ / □□	1 □	2 □	□□□□□□	3 □	4 □
Bill #3	□□ / □□ / □□	1 □	2 □	□□□□□□	3 □	4 □
Bill #4	□□ / □□ / □□	1 □	2 □	□□□□□□	3 □	4 □
Bill #5	□□ / □□ / □□	1 □	2 □	□□□□□□	3 □	4 □

TABLE D – PROPANE GAS CONSUMPTION

Please obtain the most recent propane gas bills. Sort the propane gas bills in ascending order. Please complete the table below with the information from your propane gas bills.

If you can not locate your most recent propane gas bills, please provide your best estimate.

	Start date (DD/MM/YY)	Unit of measure		Amount of gas purchased	Actual (from bills)	Estimate
		(Litres)	(Gallons)			
Bill #1	□□ / □□ / □□	1 □	2 □	□□□□□□	3 □	4 □
Bill #2	□□ / □□ / □□	1 □	2 □	□□□□□□	3 □	4 □
Bill #3	□□ / □□ / □□	1 □	2 □	□□□□□□	3 □	4 □
Bill #4	□□ / □□ / □□	1 □	2 □	□□□□□□	3 □	4 □
Bill #5	□□ / □□ / □□	1 □	2 □	□□□□□□	3 □	4 □

