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# Households and the Environment

2007



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# Households and the Environment

2007

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## Symbols

The following standard symbols are used in Statistics Canada publications:

- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0<sup>s</sup> value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- p preliminary
- r revised
- x suppressed to meet the confidentiality requirements of the *Statistics Act*
- E use with caution
- F too unreliable to be published

## Note

*Figures may not add up to totals as a result of rounding or due to the exclusion of respondents that answered "don't know" or refused to answer certain questions.*

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# Highlights

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## Energy conservation

- More than four out of ten (42%) of Canadian households with a thermostat reported they had a programmable thermostat in their dwelling.
- Of the households with a programmable thermostat, 84% had actually programmed it.
- The use of compact fluorescent light bulbs (CFLs) by Canadian households increased in 2007, with 69% of households reporting that they had at least one. This is up from 56% in 2006.

## Water conservation

- Sixty-two percent of Canadian households reported they had a low-flow shower head.
- Low-volume toilets were used by 39% of Canadian households.
- Only 13% of households reported that everyone in the household left the tap running while they brushed their teeth.

## Drinking water decisions

- Thirty percent of Canadian households with municipally supplied water reported they drank primarily bottled water, while just under six out of ten (59%) reported they drank primarily tap water.
- Thirty-five percent of Canadian households with non-municipal water supplies had their water tested, but 87% of those that tested did not find a problem.

## Indoor environment

- Forty-one percent of Canadian households had heard of radon gas and were aware of its impact on human health.
- Biodegradable window cleaning products were used by 46% of households in Canada.
- Two-thirds of Canadian households with a forced air furnace changed their furnace filters at least every six months.

## Pesticides and fertilizers

- Thirty-three percent of households that had a lawn or garden used pesticides.
- Organic pesticides were used by 12% of these same households.
- Just over half of households in Canada that had a lawn or garden used fertilizers.



### **Poor air quality awareness and responses**

- Thirty-four percent of Canadian households were aware of an advisory of poor air quality being issued in their area.
- More than half of those aware of an advisory did not change their activities as a result.
- Seventy-seven percent of households who changed their behaviour as a result of advisories of poor air quality stayed inside in response.

### **Purchasing decisions**

- Organic foods were always purchased by 5% of Canadian households.
- Thirty percent of Canadian households always used a reusable or recycled bag or container to carry their groceries.

## Introduction

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Households can have a significant impact on the environment. The Households and the Environment Survey (HES) aims to measure the behaviours of Canadian households with respect to the environment. First conducted in 1991, it has since been conducted in 1994, 2006 and most recently in 2007. Some of the environmental variables from the first cycle continue to be measured, but many new topics have been introduced over the years.

This report presents the results of the following major themes covered by the 2007 HES:

- Consumption and conservation of energy
- Consumption and conservation of water
- Indoor environment
- Use of pesticides and fertilizers
- Outdoor air quality
- Purchasing decisions

The HES is a biennial survey, conducted under the umbrella of the Canadian Environmental Sustainability Indicators (CESI) program, a broader initiative of Statistics Canada, Environment Canada and Health Canada. The HES aims to provide socio-economic information that will assist in the interpretation of the CES indicators (water quality, air quality and greenhouse gas emissions).

# Analysis

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## Energy conservation

Rising energy costs and environmental concerns about the need to reduce energy consumption provide incentives for households to adopt energy conservation measures. Canadians spend a lot of money on energy, especially energy used to heat their homes. In 2006, for example, approximately 15% of an average household's annual expenditures was spent on energy used in the home, excluding fuel for motor vehicles.<sup>1</sup>

### Controlling the temperature

Winters in Canada are generally long and cold, with the heating season lasting up to nine or ten months in some parts of the country. Thus, lowering the temperature by just a few degrees at certain times of the day is one way Canadians can reduce their energy consumption and home heating expenses. More than nine out of ten (92%) Canadian households reported having a thermostat in their dwelling (Table 1). Forty-two percent of these households had programmable thermostats, which was a slight increase from 2006 (40%).

The overall proportion of programmable thermostats that had been programmed was relatively unchanged at 84%. Households in Newfoundland and Labrador that had programmable thermostats were the most likely to not have programmed them, with 29% indicating they had not done so.

### Winter temperatures

Regardless of the type of thermostat, during the winter 55% of households with one in their home lowered the temperature for the period while they slept. Households in Prince Edward Island were most likely to turn the temperature down (63%), while those in Manitoba were the least likely (49%).

Lowering the temperature during sleep periods was much more prevalent in households with a programmable thermostat that had been programmed than in households with a non-programmable thermostat or a programmable thermostat that was not programmed (70% compared to 47%). Among those households that had programmed their programmable thermostats, those in Newfoundland and Labrador were most likely to have programmed them to lower the temperature when the household was asleep (79%), while those in Quebec were the least likely (66%) to have done so. For non-programmable thermostats and programmable thermostats that were not programmed, households in Prince Edward Island were most likely to have lowered the temperature when asleep (59%) while those in Ontario were least likely (40%) to have done so.

### Energy-saving light bulbs

In April 2007, the Government of Canada announced that it will introduce national standards for lighting efficiency by 2012. The phasing out of less energy-efficient lighting will result in lower energy consumption and thus lower greenhouse gas emissions.<sup>2</sup>

Respondents were asked about compact fluorescent light bulbs, fluorescent tube lights and halogen lights. Eighty-four percent of Canadian households reported that they had at least one type of energy-saving light in

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1. Statistics Canada, Survey of Household Spending 2006, CANSIM Table 203-0003 (accessed March 6, 2008).

2. Natural Resources Canada, 2004, *Basic Facts about Residential Lighting*, [http://oee.nrcan.gc.ca/energystar/english/consumers/light\\_basic\\_facts.cfm](http://oee.nrcan.gc.ca/energystar/english/consumers/light_basic_facts.cfm) (accessed November 19, 2008).

their home. In Newfoundland and Labrador the figure was notably lower than in any other province with 72% of households reporting they had at least one of these energy-saving light bulbs (Table 2).

Compact fluorescent light bulbs (CFLs) consume up to 75% less energy than traditional incandescent light bulbs and can last up to ten times longer.<sup>3</sup> The presence of CFLs in Canadian homes increased in 2007, with 69% of households reporting that they had at least one. Similar to the 2006 results, the uptake of CFLs by households in Nova Scotia, Ontario, Prince Edward Island and British Columbia was relatively higher than the national rate.

Forty-six percent of Canadian households reported they had a fluorescent tube light, another type of energy-saving light. These lights were more commonly reported in Saskatchewan (55%), Manitoba (53%) and British Columbia (53%); and not as often in Newfoundland and Labrador (31%) and Quebec (36%).

Halogen lights are a type of incandescent light bulb that contain a halogen gas, which minimizes filament wear and results in a longer lifespan than that of a traditional incandescent light bulb.<sup>4</sup> Thirty-five percent of Canadian households reported having halogen lights in 2007. Households in the Atlantic provinces were the least likely to have this type of energy-saving light bulb in their homes.

## Water conservation

Environment Canada estimates that in 2004, the average individual used 329 litres of water per day.<sup>5</sup> Canadian households can make an effort to lower their total water use by installing more water-efficient fixtures such as low-volume toilets and low-flow shower heads and by observing common water-saving practices around the house.

### Low-flow shower heads

Low-flow shower heads use up to 70% less water than standard shower heads and can save approximately 15% on the cost of heating the water.<sup>6</sup> In 2007, 62% of Canadian households reported they had a low-flow shower head, which was up from 2006 (54%). Households in Ontario (65%) were most likely to have had a low-flow shower head while those in Saskatchewan (46%) were least likely to have had one (Table 3).

### Low-volume toilets

The volume of water a toilet uses per flush can be reduced either through design, as in a low-volume toilet, or by adding a brick or weighted plastic bottle to reduce the amount of water in the toilet tank. New low-volume toilets typically use less than 6 litres of water per flush, compared to older toilets that can use more than twice that amount.

Thirty-nine percent of Canadian households reported that they had a low-volume toilet in 2007, up from 34% in 2006 (Table 3). Provincially, 47% of households in Ontario and Alberta reported the presence of these toilets, while Newfoundland and Labrador and Quebec trailed at 28% and 30%, respectively.

## Water-conserving habits

Turning off the tap while brushing one's teeth or ensuring that a clothes washer is full before turning it on can also help reduce the amount of water used. The majority of Canadian households (60%) reported that someone in the household always or often turned off the tap while brushing his or her teeth, with British Columbians leading the way (64%). A further 25% reported they sometimes or rarely turned off the tap while brushing their teeth and 13% reported they never turned off the water while brushing their teeth (Table 3).

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3. *Ibid.*

4. *Ibid.*

5. Environment Canada, 2007, *2007 Municipal Water Use Report: Municipal Water Use 2004 Statistics*, [http://www.ec.gc.ca/WATER/en/info/pubs/sss/e\\_mun2004.pdf](http://www.ec.gc.ca/WATER/en/info/pubs/sss/e_mun2004.pdf) (accessed July 22, 2008).

6. Natural Resources Canada, 2008, *Better Water Use Means Bigger Savings*, <http://oe.nrcan.gc.ca/residential/personal/new-homes/water-conservation.cfm?attr=4> (accessed November 24, 2008).

Of the 94% of households that reported they had a clothes washing machine in 2007, most (87%) reported that they always or often ensured that the machine was full before turning it on. Eleven percent reported they sometimes, rarely or never ensured it was full prior to operation.

## Water supply

Water availability and water quality are ongoing issues of interest to Canadians. Canadians are concerned about how the environment affects their health, and thus about the quality of the water they drink.<sup>7</sup> Understanding how Canadians perceive the quality of their drinking water supply and the resulting behaviours in response to those concerns is important to both policy and decision makers.

### Household water source

In 2007, 86% of Canadian households received their water from their city, town or municipality (Table 4). This varied substantially depending upon which province they lived in. Households in British Columbia and Saskatchewan were most likely (91% and 90%, respectively) to have had their water provided by their municipality. In Prince Edward Island and New Brunswick, household water supply was almost equally distributed between municipal and non-municipal sources.

### Drinking water decisions

In 2007, 59% of Canadian households reported drinking mainly tap water while three out of ten households drank primarily bottled water. The remaining ten percent of households reported drinking both types of water equally. When considering the source of water (municipal versus non-municipal), tap water consumption was slightly higher for those households with water from a non-municipal supply than those with a municipal supply (61% compared to 59%, respectively) (Table 5).

### Water testing

Most Canadian households have safe, clean drinking water available to them, whether it is from a municipal source or a private source.<sup>8</sup> Households with private water supplies often test their water to make sure it is safe to drink. In 2007, 35% of households that had a non-municipal water supply tested their drinking water, which was unchanged from 2006. Of those that did test their water, 87% reported that no problems were found, a figure which was up slightly from 2006 (Table 6).

### Water treatment

Regardless of whether a household has had its water tested by a laboratory, some choose to treat their water before drinking it. Actual or perceived health risks such as bacterial contamination, the presence of metals or minerals and aesthetic reasons (appearance, taste, and odour) along with the desire to remove water treatment chemicals such as chlorine, were cited as reasons why they treated their water. Between 2006 and 2007, there was an overall increase in the proportion of households that treated their drinking water. It rose from 48% to 54% for households with a municipal water supply (Table 7), and from 45% to 49% for those with a non-municipal water supply (Table 8).

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7. Task Force on a Canadian Information System for the Environment, October 2001, *Sharing Environmental Decisions: Executive Summary and Recommendations: Final Report of the Task Force on a Canadian Information System for the Environment*, Ottawa.

8. Health Canada, 2007, *Water Talk*, (HC Pub: 4155; Cat.: H128-1/07/514E; ISBN: 978-0-662-46562-1).

### Households with a municipal water supply

Of the 54% of households with a municipal water supply that treated their water prior to drinking, 58% did so to improve its appearance, taste or odour (Table 9). Slightly more than half (51%) indicated they did so to remove water treatment chemicals such as chlorine. The perception of a problem due to bacterial contamination, whether actual or perceived, was reported by 43% of households. Four out of ten households treated their water to remove metals and minerals.

More than 7 out of 10 (73%) households in Manitoba reported that they treated their water to improve its appearance, taste or odour, while less than half the households in Newfoundland and Labrador (44%) did it for this reason. Households in Prince Edward Island were much more likely than households in the other provinces (70%) to treat their water to remove water treatment chemicals. Forty-four percent of households in Alberta and 42% of those in Quebec treated their water to remove metals and minerals. One half of the households in British Columbia treated their municipally-supplied water to address possible bacterial contamination.<sup>9</sup>

### Households with a non-municipal water supply

Households that had a non-municipal water supply were less likely (49%) to treat their water prior to drinking it than households that had municipally-supplied water (Table 10). Those that did treat their water were more likely to treat their water to remove metals and minerals (51%) than they were for any other reason. This was followed by aesthetic reasons such as appearance, taste or colour, at 42%. Treating water to address possible bacterial contamination was reported by slightly more than 3 out of 10 households (31%) and just 1 out of 10 (11%) households reported they treated their non-municipally supplied water to remove water treatment chemicals.

The national rate of households with a non-municipal water supply that treated their water for possible bacterial contamination was down slightly in most provinces compared to 2006. British Columbia was the exception to this trend with more households in the province reporting this reason (38%) than in the previous survey (31%).

## Indoor environment

Canadians spend a large proportion of their time indoors, whether at home or at work. Therefore, the environmental quality of the indoor environment, including the indoor air, is important. There are many factors that influence the overall quality of the indoor environment, including the presence of certain chemicals and gases, some of which can impact human health.

### Radon awareness and testing

Radon is a naturally occurring radioactive gas that is colourless, odourless and tasteless. It is formed by the breakdown of uranium, a natural radioactive material found in soil, rock and groundwater. Exposure to radon increases the risk of developing lung cancer.<sup>10</sup> Outdoors, it is diluted to low concentrations and is not a health concern. However, when radon enters an enclosed space, such as a home, it can sometimes accumulate to levels high enough to be of concern.<sup>11</sup>

Nationally, 41% of Canadian households were aware of radon gas and knew of its impact on human health (Table 11). However, this varied substantially from province to province. More than half of the households in Nova Scotia (55%), Saskatchewan (54%), and Manitoba (51%) indicated they were aware of it. In Quebec, 20% of households reported that they were aware of radon and the potential impacts of the gas on human health.

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9. Due to a large storm that hit the Vancouver area in late 2006, there were landslides that caused sediment washing into the area's reservoirs. These reservoirs supply most of the area's fresh water. This resulted in a 12 day boil water advisory and increased turbidity for much of 2007 for Metro Vancouver and the surrounding area. The HES was conducted in the fall of 2007 into the winter of 2008. The relatively high proportion of British Columbia households with a municipal water supply that reported boiling their water to make it safe may have been in response to this isolated event.

10. Health Canada, 2007, *Radon: What you need to know*, (HC Pub: 4928, Cat: H128-1/07-515E. ISBN: 978-0-662-46970-4).

11. Health Canada, 2008, "It's Your Health," <http://www.hc-sc.gc.ca/hl-vs/iyh-vsv/environ/radon-eng.php> (accessed August 21, 2008).

It is impossible to predict if any one house will have a high level of radon. The only way to know if radon is present in a dwelling is to test for it.<sup>12</sup> Among households that indicated they were aware of radon and knew of its impacts on human health, about one in ten (11%) had tested their home for its presence.

## Cleaning and chemical products

Cleaning products and other household chemicals such as pesticides can all introduce substances into the home that can have adverse effects on the people who live there. Many cleaning products claim to be “natural”, “environmentally friendly”, or “green”. These products offer consumers options to “non-green” products.

### Window cleaning products

Window cleaners were one of the most common cleaning products found in Canadian households in 2007. Ninety-five percent of Canadian households reported they had used some type of window cleaning product (Table 12).

Just over seven out of ten households used a commercial chemical product to clean their windows. Commercial chemical window cleaners were most likely to have been used in Atlantic Canada, especially by households in Newfoundland and Labrador and Prince Edward Island (83%). Households in British Columbia were least likely to use them (65%).

Biodegradable window cleaning products, including vinegar, were used in almost half of Canadian households (46%). They were most frequently used in Saskatchewan (49%), Quebec (48%), and Alberta (47%). Households in Newfoundland and Labrador, Nova Scotia, New Brunswick and British Columbia were among the lowest users of biodegradable window cleaners at 39%, 43%, 43% and 44%, respectively.

### Other household chemical products

Stove degreasers and cleaners, solvents and indoor pesticides are other common household chemical products. Fifty-seven percent of Canadian households reported using at least one of these products (Table 13). Stove cleaners and degreasers, the most frequently reported product, were used by 41% of households. Solvents, such as paint thinners, were used by 22% of households while indoor pesticides were used by 15%.

The use of these products did vary slightly from province to province. For example, half of the households in Newfoundland and Labrador used stove degreasers and cleaners, while only 39% of households in Nova Scotia and 35% of British Columbia households reported using them. The use of solvents was fairly consistent from province to province, with Prince Edward Island reporting the highest rate (27%) and Quebec reporting the lowest rate of use (20%).

Unlike solvents, indoor pesticide use did vary substantially at the provincial level. At 23%, households in Nova Scotia were most likely to have used them. Households in Quebec, on the other hand, were least likely to have used them (10%). This low rate of use may be a side-effect of the province-wide ban on the use of cosmetic pesticides.

### Furnace filters

Just over half of Canadian households (53%) reported having a forced air furnace as the primary heating system in their dwelling in 2007. Regular maintenance of a forced air furnace system includes periodic cleaning or replacement of the furnace filters. Available in several different varieties, the furnace filter was originally designed to protect the furnace and fans, but it has evolved to reduce exposure to particles that can affect one's health. These particles include dust from a variety of sources such as smoking, burning candles, cooking, and doing laundry; hair and skin flakes from people and pets; and particles from the outside air. The main health risk comes from respirable particles

12. Health Canada, Conversation with author, October 23, 2008.



from tobacco smoke, as well as spores, bacteria and viruses.<sup>13</sup> In order to effectively remove substances from the air, furnace filters need to be changed on a regular basis.<sup>14</sup>

In 2007, most households (66%) changed their furnace filters at least every six months, with 4 out of 10 replacing them once every three months or more often (Table 14). Twenty-two percent changed their furnace filters once during the previous year, while 5% had not changed their furnace filters in the last year. Six percent of households that had a forced air furnace did not know when the filter was last changed.

Frequency of replacement differed from province to province. Households in the Prairie provinces and in Ontario were more likely to replace their furnace filters every three months or more often, compared to the rest of the country.

## Pesticides and fertilizers

The debate over the use of lawn and garden fertilizers and pesticides continued in 2007.<sup>15,16</sup> Municipal governments discussed, proposed or enacted legislation banning the use of some or all cosmetic lawn care products in their jurisdictions.<sup>17</sup>

### Pesticide use

Overall, 33% of non-apartment households that had a lawn or garden applied a pesticide<sup>18</sup> (chemical or organic) to their lawn or garden (Table 15). Households in the three Prairie provinces were the highest users of pesticide products (Saskatchewan: 48%; Manitoba: 47%; Alberta: 47%).

Nationally, 25% of non-apartment households that had a lawn or garden used a chemical pesticide. This is 4 percentage points lower than in 2006.<sup>19</sup> Of all the provinces, Quebec showed the largest decrease in the usage of pesticides, with only 4% of non-apartment households reporting that they had applied a chemical pesticide to their lawn or garden. When considering the use of either chemical or organic pesticides, slightly less than 1 household in 5 in Quebec (19%) used them.

Canada-wide, 12% of non-apartment households that had a lawn or garden used organic pesticides, such as beneficial nematodes. Households in Quebec led the way in their use (16%), followed by British Columbia (13%).

Herbicides were the most commonly used category of pesticide in 2007. Weed killer was applied to lawns and gardens by 80% of the non-apartment households that applied chemical pesticides. Twenty-nine percent of households in Canada that applied chemical pesticides applied a chemical insecticide to their lawn or garden. Households in Prince Edward Island were most likely to have applied them (60%). Households in the Prairie provinces were the highest users of chemical herbicides, but were also the lowest users of chemical insecticides.

### Fertilizer use

Over half of Canadian non-apartment households (51%) that had a lawn or garden applied fertilizer to their lawn or garden. Twenty-seven percent used a chemical fertilizer, while 34% used a natural or organic fertilizer such as compost, manure, mulch or products labelled as 'natural' or 'organic.' Eighteen percent applied chemical fertilizers exclusively, while 24% reported they used only organic or natural fertilizers (Table 16).

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13. Canadian Mortgage and Housing Corporation, 1999 (revised 2008), *Your Furnace Filter*, CE22.

14. Climate Change Central, 2007, *Fall into Efficient Home Heating*, <http://www.climatechangecentral.com/publications/enerclick/august-2008/fall-efficient-home-heating/> (accessed November 26, 2008).

15. Ottawa Citizen, *Glebe seeks allies in fight to outlaw pesticide use*, April 27, 2007, page F8.

16. Winnipeg Free Press, *Pesticide prohibition triggers city debate*, May 29, 2007, page B1.

17. Kitchener-Waterloo Record, *Waterloo eyes pesticide ban*, November 10, 2007, page B1.

18. The term pesticide encompasses products that address three groups of pests: weeds (herbicides), insects (insecticides) and fungi (fungicides).

19. Due to differences between the 2006 and 2007 questionnaires, care must be exercised when making year-on-year comparisons. In previous years, households that lived in apartments were in-scope for the fertilizer and pesticide questions. Comparisons to 2006 fertilizer and pesticide data have been made to figures that exclude households that lived in apartments. Also, year-to-year comparisons are made between chemical fertilizer or chemical pesticide data from 2007 and fertilizer or pesticide data from 2006. For more information on either caveat, please see "Data comparability over time" in section Data quality, concepts and methodology — Methodology and data quality.



Eight percent of households in Quebec used chemical fertilizers, while more than 4 out of 10 (44%) used organic or natural fertilizers. Four percent of Quebec households used only chemical fertilizers, while 41% reported they used organic or natural fertilizers exclusively.

### Application of pesticides and fertilizers

Pesticides and fertilizers can be applied either as part of a regular maintenance schedule, or to address a specific issue such as the presence of crabgrass or grubs.

Canadian households that applied pesticides in 2007 were more likely to have applied them to address specific problems (61%) than they were to have applied them as part of a regular maintenance schedule (39%) (Table 17). The application of organic pesticides was more evenly split between the two strategies, with 54% of households reporting that they applied them to address specific problems and 45% reporting that they applied them on a regular maintenance schedule.

Fertilizer users tended to apply these products to their lawns or gardens themselves (76%), while 23% reported they used the services of a lawn care company (Table 16). Similarly, pesticides were more likely to have been applied by a member of the household (70%) than by a lawn care company (27%) (Table 17).

### Poor air quality advisories: awareness and responses

Air quality affects everyone, but those with respiratory diseases, such as asthma and emphysema, are especially affected. When air quality deteriorates past acceptable levels, government-issued advisories are relayed through local press, radio and television. These air quality advisories indicate the severity of the issue and recommended actions to take.

In 2007, 34% of Canadian households were aware of a poor air quality advisory<sup>20</sup> issued in their area (Table 18). This varied across the country, as some regions are more susceptible to high concentrations of atmospheric pollutants than others. For example, there was a relatively high degree of awareness among Ontario households (58%), compared to those in Nova Scotia (9%) and Alberta (10%).

More than half of those households did not modify their behaviour or their planned activities. Of those that did change their behaviour or revise their planned activities in response to an air quality advisory, the majority (77%) opted to stay indoors (Table 19). Refraining from exercising outside (45%), turning air conditioners on and/or up (21%) and not using gas-powered equipment (19%) were other common responses.

### Purchasing decisions

#### Organic foods

People choose to eat organically produced foods for a variety of reasons.<sup>21</sup> Some perceive organic foods to be a healthier choice, while others choose them for environmental reasons. Regardless of why people choose to eat organic food, both the market share and the number of producers of organic food have been on the rise in Canada.<sup>22</sup>

Five percent of Canadian households reported they always purchased organic foods, while 45% percent reported that they often or sometimes purchased them. The remaining 48% reported that they rarely or never purchased organic foods, with more than half of households in Nova Scotia, New Brunswick, Manitoba, Saskatchewan and Newfoundland and Labrador reporting that they rarely or never purchased organic food products.

20. This refers to both official and unofficial air quality advisories. Respondents were not asked for specific examples of the air quality advisories they were aware of or who issued the advisories.

21. Yiridoe, E.K., Bonti-Ankomah, S. and Martin, R.C. 2005, "Comparison of consumer perceptions and preference toward organic versus conventionally produced foods: A review and update of the literature," *Renewable Agriculture and Food Systems*, 20(4): 193-205.

22. Kendrick, Jenny, 2008, "Organic: from niche to mainstream," *Canadian Agriculture at a Glance*, Statistics Canada Catalogue no. 96-325-X200700010529.

## Reusable grocery bags

Canadian shoppers have the option of using a reusable or recycled bag or container to carry their groceries instead of disposable plastic bags. The disposable plastic shopping bag, although convenient, has its share of detractors from an environmental standpoint. Many retailers have aimed to reduce the use of plastic bags by offering reusable bags as alternatives, or charging a fee for the disposable bags. Some countries, such as Ireland,<sup>23</sup> Switzerland<sup>24</sup> and Belgium,<sup>25</sup> have introduced steep levies to discourage the use of non-reusable bags. In April 2007, Leaf Rapids, Manitoba became the first Canadian municipality to ban them outright.<sup>26</sup>

Nationally, 30% of Canadian households reported that they always used recycled or reusable bags when doing their grocery shopping. Ontario and Quebec (35% and 33%, respectively) led the provinces in the proportion of households reporting that they always used reusable or recycled bags or containers to carry their groceries. A further 41% of households reported often or sometimes using them. Newfoundland and Labrador, New Brunswick and Nova Scotia reported a greater proportion of households that rarely or never used these types of bags or containers (46%, 43% and 42%, respectively).

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23. Irish Examiner, 2002, "Plastic bag levy hits our stores," March 2, 2002. <http://archives.tcm.ie/irishexaminer/2002/03/02/story24135.asp> (accessed December 15, 2008).

24. ReuseableBags.com. <http://www.reuseablebags.com/facts.php?id=9> (accessed December 22, 2008).

25. Bring Your Own Bag, 2008. <http://www.bringyourbag.com/index.php> (accessed December 22, 2008).

26. Cooper, R., 2007, "Waste Initiatives Across Canada," *Solid Waste & Recycling*, August 1, 2007.

## Related products

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### Selected publications from Statistics Canada

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11-509-X	Human Activity and the Environment
16-001-M	Environment Accounts and Statistics Technical Paper Series
16-201-X	Human Activity and the Environment: Annual Statistics
16-251-X	Canadian Environmental Sustainability Indicators
16-252-X	Canadian Environmental Sustainability Indicators: Highlights
16-253-X	Canadian Environmental Sustainability Indicators: Socio-economic Information
16-254-X	Canadian Environmental Sustainability Indicators: Air Quality Indicators: Data Sources and Methods
16-255-X	Canadian Environmental Sustainability Indicators: Greenhouse Gas Emissions Indicator: Data Sources and Methods
16-256-X	Canadian Environmental Sustainability Indicators: Freshwater Quality Indicator: Data Sources and Methods
16-257-X	Environment Accounts and Statistics Product Catalogue
16-401-X	Industrial Water Use
16M0001X	Households and the Environment Survey: Public Use Microdata File

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### Selected surveys from Statistics Canada

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3881	Households and the Environment Survey
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### Selected CANSIM tables from Statistics Canada

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153-0059	Households and the environment survey, use of energy-saving lights, Canada and provinces, every 2 years (percent)
153-0060	Households and the environment survey, use of thermostats, Canada and provinces, every 2 years (percent)

153-0061	Households and the environment survey, radon awareness and testing, Canada and provinces, every 2 years (percent)
153-0062	Households and the environment survey, dwelling's main source of water, Canada and provinces, every 2 years (percent)
153-0063	Households and the environment survey, primary type of drinking water consumed, Canada and provinces, every 2 years (percent)
153-0064	Households and the environment survey, use of fertilizer and pesticides, Canada and provinces, every 2 years (percent)
153-0065	Households and the environment, awareness of air quality advisories and their influence on behaviours, Canada and provinces, every 2 years (percent)
153-0066	Households and the environment survey, treatment of drinking water, Canada and provinces, every 2 years (percent)

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# Statistical tables

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**Table 1**  
**Thermostat use by households during the winter, Canada and provinces**

	Households reporting at least one thermostat	Winter temperature lowered when asleep <sup>1</sup>	Main thermostat, programmable <sup>1</sup>	Programmable thermostat		Not programmed or non-programmable
				Programmed thermostat <sup>2</sup>	Winter temperature lowered when asleep <sup>3</sup>	
percent						
<b>Canada</b>	<b>92</b>	<b>55</b>	<b>42</b>	<b>84</b>	<b>70</b>	<b>47</b>
Newfoundland and Labrador	95	60	16	71	79	58
Prince Edward Island	97	63	27	81	77	59
Nova Scotia	96	60	25	74	75	57
New Brunswick	94	54	22	79	69	50
Quebec	93	56	37	82	66	51
Ontario	88	53	53	86	68	40
Manitoba	97	49	39	78	71	41
Saskatchewan	97	59	38	84	78	49
Alberta	99	58	41	90	77	46
British Columbia	93	58	35	82	74	52

1. As a percentage of all households that had a thermostat.

2. As a percentage of all households that had a programmable thermostat.

3. As a percentage of all households that had a programmable thermostat that was programmed.

4. As a percentage of all households that had an unprogrammed or non-programmable thermostat.

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007, CANSIM Table 153-0060.

**Table 2**  
**Energy-saving light bulbs, Canada and provinces**

	At least one type of energy-saving light	Compact fluorescent lights	Fluorescent tubes	Halogen lights
<b>Canada</b>	<b>84</b>	<b>69</b>	<b>46</b>	<b>35</b>
Newfoundland and Labrador	72	65	31	20
Prince Edward Island	82	73	43	16
Nova Scotia	85	77	43	21
New Brunswick	81	70	39	23
Quebec	81	63	36	42
Ontario	87	76	50	33
Manitoba	78	62	53	29
Saskatchewan	84	64	55	26
Alberta	80	64	46	34
British Columbia	87	71	53	36

**Note(s):** As a percentage of all households.

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007, CANSIM Table 153-0059.

**Table 3**  
**Indoor water conservation practices, Canada and provinces**

	Had a low-volume toilet <sup>1</sup>	Had a low-flow shower head <sup>1</sup>	Member of the household turned off water while brushing teeth <sup>1</sup>			Had a clothes washing machine <sup>1</sup>	Someone in the household ensured that clothes washing machine was full before turning it on <sup>2</sup>		
			Always or often	Sometimes or rarely	Never		Always or often	Sometimes or rarely	Never
	percent								
<b>Canada</b>	<b>39</b>	<b>62</b>	<b>60</b>	<b>25</b>	<b>13</b>	<b>94</b>	<b>87</b>	<b>8</b>	<b>3</b>
Newfoundland and Labrador	28	55	39	36	24	97	85	10 <sup>E</sup>	F
Prince Edward Island	32	59	49	30	20 <sup>E</sup>	97	88	9 <sup>E</sup>	F
Nova Scotia	37	63	54	28	17	97	87	10 <sup>E</sup>	F
New Brunswick	31	61	52	28	18	96	86	9	3 <sup>E</sup>
Quebec	30	63	57	26	15	96	82	10	6
Ontario	47	65	60	25	12	91	91	7	1
Manitoba	38	52	60	22	15	93	84	9	3 <sup>E</sup>
Saskatchewan	37	46	57	26	15	98	85	8	F
Alberta	47	58	63	25	10	98	88	8	3 <sup>E</sup>
British Columbia	35	57	64	23	11	93	88	8	2 <sup>E</sup>

1. As a percentage of all households.

2. As a percentage of households that had a clothes washing machine.

**Note(s):** Totals may not add to 100% as some respondents did not know or refused to answer the question.

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table 4**  
**Water supply, Canada and provinces**

	Municipal water supply	Non-municipal water supply	Non-municipal water supply	
			Private well	Surface source
	percent			
<b>Canada</b>	<b>86</b>	<b>13</b>	<b>12</b>	<b>1</b>
Newfoundland and Labrador	88	11 <sup>E</sup>	10 <sup>E</sup>	F
Prince Edward Island	49	51	51	F
Nova Scotia	56	44	43	F
New Brunswick	50	50	49	F
Quebec	88	11	10	1 <sup>E</sup>
Ontario	87	11	10	0 <sup>E</sup>
Manitoba	80	18	16	F
Saskatchewan	90	9 <sup>E</sup>	7 <sup>E</sup>	F
Alberta	89	10 <sup>E</sup>	9	F
British Columbia	91	8	7	1 <sup>E</sup>

**Note(s):** As a percentage of all households.

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007, CANSIM Table 153-0062.

**Table 5**  
**Primary type of drinking water consumed, Canada and provinces**

	Municipal and non-municipal water supply <sup>1</sup>			Municipal water supply <sup>2</sup>			Non-municipal water supply <sup>3</sup>		
	Tap water	Bottled	Both tap water and bottled water	Tap water	Bottled	Both tap water and bottled water	Tap water	Bottled	Both tap water and bottled water
	percent								
<b>Canada</b>	<b>59</b>	<b>30</b>	<b>10</b>	<b>59</b>	<b>30</b>	<b>10</b>	<b>61</b>	<b>30</b>	<b>7</b>
Newfoundland and Labrador	57	28	7 <sup>E</sup>	55	30	6 <sup>E</sup>	69	F	F
Prince Edward Island	72	20	F	64	28	F	79	F	F
Nova Scotia	63	28	7 <sup>E</sup>	60	31	F	67	24	F
New Brunswick	65	29	4 <sup>E</sup>	59	35	F	72	23	F
Quebec	59	28	11	59	28	12	64	26	8 <sup>E</sup>
Ontario	53	34	12	53	34	12	55	36	8
Manitoba	55	37	8 <sup>E</sup>	54	37	8 <sup>E</sup>	59	33	F
Saskatchewan	65	28	7	66	26	7	54	39	F
Alberta	62	29	8	62	29	9	60	36	F
British Columbia	68	24	8	68	24	7	64	24	F

1. As a percentage of all households.

2. As a percentage of all households that had a municipal water supply.

3. As a percentage of all households that had a non-municipal water supply.

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007, CANSIM Table 153-0063.

**Table 6**  
**Households with a non-municipal water supply that had their water tested by a laboratory, Canada and provinces**

	Non-municipal water supply	Water tested by a laboratory in last twelve months <sup>1</sup>	No problem found <sup>2</sup>
	percent		
<b>Canada</b>	<b>13</b>	<b>35</b>	<b>87</b>
Newfoundland and Labrador	11 <sup>E</sup>	F	F
Prince Edward Island	51	35	90
Nova Scotia	44	28	80
New Brunswick	50	26	81
Quebec	11	26	79
Ontario	11	48	93
Manitoba	18	34	84
Saskatchewan	9 <sup>E</sup>	25 <sup>E</sup>	93
Alberta	10 <sup>E</sup>	32	87
British Columbia	8	30	84

1. As a percentage of all households that had a non-municipal water supply.

2. As a percentage of households that had their water tested by a laboratory.

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007, CANSIM Table 153-0062.



**Table 7**  
**Treatment of drinking water by households that had a municipal water supply, Canada and provinces**

	Municipal water supply <sup>1</sup>	Households that had a municipal water supply						
		Primary type of drinking water, tap water <sup>2</sup>	Treated water prior to consumption <sup>3</sup>	Used an on-tap filter or purifier <sup>3</sup>	Used a filter or purifier on the main supply pipe <sup>3</sup>	Used a filter <sup>3</sup>	Used a jug filter <sup>3</sup>	Boiled water in order to make it safe to drink in the last twelve months <sup>3</sup>
	percent							
<b>Canada</b>	<b>86</b>	<b>59</b>	<b>54</b>	<b>12</b>	<b>6</b>	<b>47</b>	<b>34</b>	<b>11</b>
Newfoundland and Labrador	88	55	66	16	7 <sup>E</sup>	57	44	21
Prince Edward Island	49	64	43	F	F	41	29	F
Nova Scotia	56	60	52	F	F	47	38	F
New Brunswick	50	59	52	F	F	47	41	F
Quebec	88	59	37	9 <sup>E</sup>	3	31	21	9
Ontario	87	53	64	14	9	58	41	11
Manitoba	80	54	53	11	8 <sup>E</sup>	48	36	9 <sup>E</sup>
Saskatchewan	90	66	48	11	9	44	29	8 <sup>E</sup>
Alberta	89	62	56	13	6 <sup>E</sup>	52	38	9 <sup>E</sup>
British Columbia	91	68	60	13	5	47	32	21

1. As a percentage of all households.

2. As a percentage of all households that had a municipal water supply.

3. Information relates only to households that reported primarily consuming tap water, or tap water and bottled water.

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007, CANSIM Tables 153-0062, 153-0063 and 153-0066.

**Table 8**  
**Treatment of drinking water by households that had a non-municipal water supply, Canada and provinces**

	Non-municipal water supply <sup>1</sup>	Households that had a non-municipal water supply						
		Primary type of drinking water, tap water <sup>2</sup>	Treated water prior to consumption <sup>3</sup>	Used an on-tap filter or purifier <sup>3</sup>	Used a filter or purifier on the main supply pipe <sup>3</sup>	Used a filter <sup>3</sup>	Used a jug filter <sup>3</sup>	Boiled water in order to make it safe to drink in the last twelve months <sup>3</sup>
	percent							
<b>Canada</b>	<b>13</b>	<b>61</b>	<b>49</b>	<b>10</b>	<b>31</b>	<b>48</b>	<b>17</b>	<b>3</b>
Newfoundland and Labrador	11 <sup>E</sup>	69	F	F	F	F	F	F
Prince Edward Island	51	79	34	F	19 <sup>E</sup>	33	F	F
Nova Scotia	44	67	54	F	34	52	20 <sup>E</sup>	F
New Brunswick	50	72	43	F	21	42	23	F
Quebec	11	64	34	F	25	33	7 <sup>E</sup>	F
Ontario	11	55	60	12	39	58	20	F
Manitoba	18	59	50	13 <sup>E</sup>	31	49	19	F
Saskatchewan	9 <sup>E</sup>	54	50 <sup>E</sup>	F	F	49 <sup>E</sup>	F	F
Alberta	10 <sup>E</sup>	60	54	F	23 <sup>E</sup>	52	F	F
British Columbia	8	64	49	12 <sup>E</sup>	33	47	12 <sup>E</sup>	F

1. As a percentage of all households.

2. As a percentage of all households that had a non-municipal water supply.

3. Information relates only to households that reported primarily consuming tap water, or tap water and bottled water.

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007, CANSIM Tables 153-0062, 153-0063 and 153-0066.

**Table 9**  
**Reasons why households with a municipal water supply treated their tap water before using it, Canada and provinces**

	Treated water prior to consumption <sup>1</sup>	Reasons for treating <sup>2</sup>				
		To improve appearance, taste or odour	To remove water treatment chemicals such as chlorine	To remove metals or minerals	To remove possible bacterial contamination	Other reasons
		percent				
<b>Canada</b>	<b>54</b>	<b>58</b>	<b>51</b>	<b>40</b>	<b>43</b>	<b>12</b>
Newfoundland and Labrador	66	44	45	33	36	22 <sup>E</sup>
Prince Edward Island	43	64	70	F	F	F
Nova Scotia	52	59	57	26 <sup>E</sup>	28	F
New Brunswick	52	68	51	28	35	F
Quebec	37	50	50	42	42	13
Ontario	64	62	49	41	42	11
Manitoba	53	73	52	33	41	11 <sup>E</sup>
Saskatchewan	48	62	50	37	40	17
Alberta	56	60	57	44	46	13
British Columbia	60	52	51	38	50	11

1. As a percentage of households with a municipal water supply reporting that tap water was used.

2. Relates only to households reporting that tap water was used.

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007, CANSIM Table 153-0066.

**Table 10**  
**Reasons why households with a non-municipal water supply treated their tap water before using it, Canada and provinces**

	Treated water prior to consumption <sup>1</sup>	Reasons for treating <sup>2</sup>				
		To improve appearance, taste or odour	To remove water treatment chemicals such as chlorine	To remove metals or minerals	To remove possible bacterial contamination	Other reasons
		percent				
<b>Canada</b>	<b>49</b>	<b>42</b>	<b>11</b>	<b>51</b>	<b>31</b>	<b>17</b>
Newfoundland and Labrador	F	F	F	F	F	F
Prince Edward Island	34	F	F	F	F	F
Nova Scotia	54	33	F	38	F	35
New Brunswick	43	39	F	48	28	F
Quebec	34	41	F	57	21 <sup>E</sup>	14 <sup>E</sup>
Ontario	60	42	13 <sup>E</sup>	50	39	14
Manitoba	50	55	F	56	35	F
Saskatchewan	50 <sup>E</sup>	F	F	F	F	F
Alberta	54	59 <sup>E</sup>	F	71	F	F
British Columbia	49	37	F	50	38	F

1. As a percentage of households with a non-municipal water supply reporting that tap water was used.

2. Relates only to households reporting that tap water was used.

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007, CANSIM Table 153-0066.

**Table 11**  
**Household awareness and testing for radon, Canada and provinces**

	Aware of radon <sup>1</sup>	Tested <sup>2</sup>
	percent	
<b>Canada</b>	<b>41</b>	<b>11</b>
Newfoundland and Labrador	41	F
Prince Edward Island	49	F
Nova Scotia	55	10 <sup>E</sup>
New Brunswick	48	F
Quebec	20	F
Ontario	45	14
Manitoba	51	13
Saskatchewan	54	12
Alberta	49	11
British Columbia	46	11

1. As a percentage of all households that did not live in an apartment.

2. As a percentage of all households that were aware of radon.

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007, CANSIM Table 153-0061.

**Table 12**  
**Use of window cleaning products, Canada and provinces**

	Households that used window cleaning products			Did not use, clean, or have windows in past 12 months
	Used any type of window cleaning product	Commercial chemical cleaner	Other cleaner - biodegradable or vinegar	
	percent			
<b>Canada</b>	<b>95</b>	<b>71</b>	<b>46</b>	<b>4</b>
Newfoundland and Labrador	96	83	39	F
Prince Edward Island	98	83	46	F
Nova Scotia	96	79	43	F
New Brunswick	96	78	43	F
Quebec	97	69	48	3
Ontario	96	75	46	4
Manitoba	93	72	46	6
Saskatchewan	94	67	49	6
Alberta	94	69	47	6
British Columbia	94	65	44	5

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table 13**  
**Indoor use of chemical products, Canada and provinces**

	Used stove cleaners and degreasers	Used solvents	Used indoor pesticides	Used any of these chemical products	Used none of these chemical products
	percent				
<b>Canada</b>	<b>41</b>	<b>22</b>	<b>15</b>	<b>57</b>	<b>42</b>
Newfoundland and Labrador	50	24	13	62	36
Prince Edward Island	47	27	19	64	36
Nova Scotia	39	26	23	60	40
New Brunswick	47	22	19	62	37
Quebec	40	20	10	54	45
Ontario	43	24	18	60	39
Manitoba	47	22	21	63	36
Saskatchewan	42	21	20	58	41
Alberta	40	22	12	53	45
British Columbia	35	22	11	51	48

Source(s): Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table 14**  
**Furnace filter maintenance intervals, Canada and provinces**

	Households that had a forced air furnace	Frequency of furnace filter cleaning or replacement during the last twelve months <sup>1</sup>				
		Every three months or more often	Every six months	Once	Not changed	Did not know
	percent					
<b>Canada</b>	<b>53</b>	<b>42</b>	<b>24</b>	<b>22</b>	<b>5</b>	<b>6</b>
Newfoundland and Labrador	27	22 <sup>E</sup>	26 <sup>E</sup>	42	F	F
Prince Edward Island	40	F	F	55	F	F
Nova Scotia	45	22	19	40	F	F
New Brunswick	22	34	19	31	F	F
Quebec	16	36	16	28	7 <sup>E</sup>	F
Ontario	73	46	24	19	4	7
Manitoba	72	49	29	14	F	F
Saskatchewan	80	49	25	19	2 <sup>E</sup>	5 <sup>E</sup>
Alberta	81	47	25	18	5	4 <sup>E</sup>
British Columbia	47	27	24	34	8	6

1. As a percentage of those households that had a forced air furnace as the primary heating system.

Source(s): Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table 15**  
**Pesticide use, Canada and provinces**

	Households reporting having a lawn or a garden <sup>1</sup>	Applied chemical or organic pesticide <sup>2</sup>	Applied chemical pesticide <sup>2</sup>	Applied only chemical pesticide <sup>2</sup>	Type of chemical pesticides applied <sup>3</sup>			Applied organic pesticide <sup>2</sup>	Applied only organic pesticide <sup>2</sup>	Applied both chemical and organic pesticides <sup>2</sup>
					Herbicide	Insecticide	Fungicide			
percent										
<b>Canada</b>	<b>95</b>	<b>33</b>	<b>25</b>	<b>21</b>	<b>80</b>	<b>29</b>	<b>6</b>	<b>12</b>	<b>8</b>	<b>3</b>
Newfoundland and Labrador	95	25	20	17	61	43	F	8 <sup>E</sup>	F	F
Prince Edward Island	98	21	16	12	46	60	F	8 <sup>E</sup>	F	F
Nova Scotia	98	21	15	13	58	48	F	8 <sup>E</sup>	6 <sup>E</sup>	F
New Brunswick	97	23	17	13	61	43	F	9	5 <sup>E</sup>	F
Quebec	90	19	4	3	46	49	F	16	15	1 <sup>E</sup>
Ontario	98	37	30	26	79	32	7	11	7	4
Manitoba	96	47	43	38	89	17	F	8	4 <sup>E</sup>	5 <sup>E</sup>
Saskatchewan	96	48	46	41	91	14	F	8	F	5 <sup>E</sup>
Alberta	96	47	42	38	88	23	F	9	5 <sup>E</sup>	4
British Columbia	91	33	25	20	79	27	7 <sup>E</sup>	13	7	5

1. As a percentage of all households that did not live in an apartment.
2. As a percentage of all households that had a lawn or garden.
3. As a percentage of those households who applied chemical pesticides.

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007, CANSIM Table 153-0064.

**Table 16**  
**Fertilizer use, Canada and provinces**

	Households reporting having a lawn or a garden <sup>1</sup>	Applied chemical fertilizer <sup>2</sup>	Applied only chemical fertilizer <sup>2</sup>	Applied organic fertilizer <sup>2</sup>	Applied only organic fertilizer <sup>2</sup>	Applied chemical or organic fertilizer <sup>2</sup>	Fertilizer applied by: <sup>3</sup>		
							Household member	Lawn maintenance company	Someone else
percent									
<b>Canada</b>	<b>95</b>	<b>27</b>	<b>18</b>	<b>34</b>	<b>24</b>	<b>51</b>	<b>76</b>	<b>23</b>	<b>3</b>
Newfoundland and Labrador	95	25	18	27	20 <sup>E</sup>	45	87	F	F
Prince Edward Island	98	15	8 <sup>E</sup>	30	23	38	90	F	F
Nova Scotia	98	18	9	35	27	45	88	9 <sup>E</sup>	F
New Brunswick	97	21	13	28	20	41	82	15	F
Quebec	90	8	4	44	41	49	70	28	4 <sup>E</sup>
Ontario	98	32	21	32	22	53	72	28	3
Manitoba	96	35	24	24	12	48	73	27	F
Saskatchewan	96	47	35	25	13	60	86	11	F
Alberta	96	45	32	27	14	59	82	17	3 <sup>E</sup>
British Columbia	91	26	15	33	22	48	82	17	F

1. As a percentage of all households that did not live in an apartment.
2. As a percentage of all households that had a lawn or garden.
3. As a percentage of those households who applied either chemical or organic fertilizer.

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007, CANSIM Table 153-0064.

**Table 17**  
**Pesticide application strategies, Canada and provinces**

	Pesticide application strategy						Pesticide applied by:			
	All pesticides		Applied organic pesticide		Applied chemical pesticide		Household member <sup>1</sup>	Lawn maintenance company <sup>1</sup>	Someone else <sup>1</sup>	
	Regular schedule <sup>1</sup>	To address a specific problem <sup>1</sup>	Both regular maintenance and to address a specific problem <sup>1</sup>	Regular schedule <sup>2</sup>	To address a specific problem <sup>2</sup>	Regular schedule <sup>3</sup>				To address a specific problem <sup>3</sup>
	percent									
<b>Canada</b>	<b>39</b>	<b>61</b>	<b>2</b>	<b>45</b>	<b>54</b>	<b>38</b>	<b>63</b>	<b>70</b>	<b>27</b>	<b>3</b>
Newfoundland and Labrador	36	65	F	F	F	39 <sup>E</sup>	59	76	F	F
Prince Edward Island	F	79	F	F	F	F	76	82	F	F
Nova Scotia	32	66	F	F	F	F	70	82	F	F
New Brunswick	40	56	F	F	F	40	54	68	26	F
Quebec	46	52	F	52	46	F	82	52	45	F
Ontario	47	54	3	47	55	46	54	63	35	3 <sup>E</sup>
Manitoba	28	73	F	F	65	27	73	81	17	F
Saskatchewan	33	68	F	F	F	34	67	86	11 <sup>E</sup>	F
Alberta	29	72	F	F	76	31	70	85	13	F
British Columbia	31	68	F	32	63	32	68	81	17	F

1. As a percentage of those households who applied either chemical or organic fertilizer.

2. As a percentage of those households that applied only organic pesticides.

3. As a percentage of those households who applied only chemical pesticides.

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007, CANSIM Table 153-0064.

**Table 18**  
**Awareness of air quality advisories, Canada and provinces**

	Aware of air quality advisories <sup>1</sup>	Changed behaviour due to advisory <sup>2</sup>	Did not change behaviour <sup>2</sup>
	percent		
<b>Canada</b>	<b>34</b>	<b>44</b>	<b>55</b>
Newfoundland and Labrador	F	F	F
Prince Edward Island	F	F	F
Nova Scotia	9	F	72
New Brunswick	14	49	49
Quebec	30	32	68
Ontario	58	51	49
Manitoba	16	46	54
Saskatchewan	3 <sup>E</sup>	F	56 <sup>E</sup>
Alberta	10	34	66
British Columbia	18	33	67

1. As a percentage of all households.

2. As a percentage of those households aware of air quality advisories.

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007, CANSIM Table 153-0065.

**Table 19**  
**Response to air quality advisories, Canada and provinces**

	Changed behaviour due to advisory							Did not change behaviour
	Did not exercise outside	Used public transit or car-pooled	Turned air conditioning on and/or up	Stayed inside	Did not use gas-powered equipment	Used car	Other changes or activity	
	percent							
<b>Canada</b>	<b>45</b>	<b>12</b>	<b>21</b>	<b>77</b>	<b>19</b>	<b>16</b>	<b>10</b>	<b>55</b>
Newfoundland and Labrador	F	F	F	F	F	F	F	F
Prince Edward Island	F	F	F	F	F	F	F	F
Nova Scotia	F	F	F	F	F	F	F	72
New Brunswick	F	F	F	77	F	F	F	49
Quebec	43	18 <sup>E</sup>	12 <sup>E</sup>	63	6 <sup>E</sup>	11 <sup>E</sup>	18 <sup>E</sup>	68
Ontario	46	11	26	81	23	18	7	49
Manitoba	32 <sup>E</sup>	F	F	79	F	F	F	54
Saskatchewan	F	F	F	F	F	F	F	56 <sup>E</sup>
Alberta	F	F	F	69	F	F	F	66
British Columbia	31 <sup>E</sup>	F	F	70	F	F	F	67

**Note(s):** As a percentage of those households aware of air quality advisories.

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007, CANSIM Table 153-0065.

**Table 20**  
**Purchasing decisions, Canada and provinces**

	Purchased organic foods			Used a recycled or reusable bag or container when grocery shopping		
	Always	Often or sometimes	Rarely or never	Always	Often or sometimes	Rarely or never
	percent					
<b>Canada</b>	<b>5</b>	<b>45</b>	<b>48</b>	<b>30</b>	<b>41</b>	<b>27</b>
Newfoundland and Labrador	F	41	52	13	36	46
Prince Edward Island	F	47	47	23	39	35
Nova Scotia	F	41	55	22	35	42
New Brunswick	F	41	54	19	36	43
Quebec	4	46	49	33	39	27
Ontario	5	44	49	35	43	21
Manitoba	3	41	54	30	40	29
Saskatchewan	3 <sup>E</sup>	40	54	25	39	35
Alberta	5 <sup>E</sup>	49	44	25	41	33
British Columbia	7 <sup>E</sup>	51	40	26	44	28

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

# Methodology and data quality

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## Introduction

This section provides an overview of the underlying methodology of the survey and of key aspects of the data quality. It will also provide an understanding of the strengths and limitations of the data. The information may be of particular relevance when making comparisons with data from other surveys or sources of information and when drawing conclusions from time series.

## Reference period

Respondents of the Households and the Environment Survey (HES) were asked to refer to behaviours and activities that were undertaken by the household for the following reference periods (examples of the questions or modules using the reference period):

### Reference period: At the time of the interview

- Dwelling's water source
- Type of heating equipment
- Energy conservation
- Septic system
- Water conservation (water meters, low-flow showerheads, reduced volume toilets, rain barrel or cistern)
- Recycling programs
- Radon awareness
- Ethanol blended gasoline and bio-diesel availability

### Reference period: During the previous summer

- Lawn and garden watering

### Reference period: During the "last twelve months"

- Drinking water choice
- Water treatment
- Water testing
- Water conservation (indoor water use)
- Fertilizer and pesticide use
- Recycling behaviour



- Hazardous waste disposal
- Composting
- Cleaning and chemical products
- Recreation vehicles and gas-powered equipment
- Motor vehicles
- Public transit
- Ethanol blended gasoline and bio-diesel use
- Air quality
- Purchasing decisions
- Total household income

**Reference period: Warmer months and colder months**

- Mode of transport to work

**Reference period: Winter season and summer season**

- Thermostat use
- Indoor temperature

**Reference period: “In the last five years”**

- Major appliance purchases

### **Target population**

The target population consisted of households in Canada excluding households located in Yukon, Northwest Territories and Nunavut, households located on Indian reserves or Crown lands, and households consisting entirely of full-time members of the Canadian Armed Forces. Institutions and households of certain remote regions were also excluded.

### **Variables measured**

Broadly, the 2007 HES measured variables that explored the following themes:

- Water quality concerns of households
- Consumption and conservation of water
- Consumption and conservation of energy
- Home heating and cooling
- Use of household lawn and garden equipment
- Use of gasoline-powered recreation equipment

- Pesticide and fertilizer use on lawns and gardens
- Recycling, composting and waste disposal practices
- Impacts of air and water quality on households
- Transportation decisions
- Purchasing decisions

## **Instrument design**

The questionnaire was designed by Statistics Canada in consultation with stakeholders involved in the Canadian Environment Sustainability Indicators project and in consideration of the data needs of both the project and the larger research and policy communities. Testing of the questionnaire was done by Statistics Canada's Questionnaire Design Research Centre (QDRC). Focus group sessions were conducted along with a number of one-on-one interviews. These were conducted in both English and French by Statistics Canada's Questionnaire Design Resource Centre in five cities across Canada in January and February 2007.

The questionnaire was designed to follow standard practices and wording, when applicable, in a computer-assisted interviewing environment. This included the automatic control of question wording and flows that depended upon answers to earlier questions and the use of online edits to check for logical inconsistencies and gross capture errors.

The computer application for data collection was subjected to extensive testing before its use in the survey.

## **Sampling**

The HES sample was selected from the 2007 (January to June) respondents to the Canadian Community Health Survey (CCHS). All the details of the CCHS sample design can be obtained upon request. In Quebec and in Ontario, the HES sample was selected from the CCHS respondents in order to allow for reliable estimates; i.e., with a coefficient of variation (CV) of 16.5% or better for proportions as small as 10% in census metropolitan areas (CMAs) and in the non-CMA portion of each province. In the other provinces, all the CCHS responding dwellings were selected in order to allow for the most reliable estimates possible. The initial HES 2007 sample size consisted of 29,980 dwellings.

## **Data collection**

Data collection took place from October 2007 to February 2008. Participation in the survey was voluntary and data were collected directly from a representative of the selected household by telephone interview. Depending on this person's availability and operational constraints, the HES interview was completed immediately or arrangements were made to call back in order to complete the interview. An automated call scheduler managed follow-up calls in order to try to make contact with the respondent at different times of day throughout the collection period.

Interviews for the HES were conducted from Statistics Canada's regional offices using a computer-assisted telephone interviewing (CATI) application. The initial sample size consisted of 29,980 dwellings. A total of 21,690 responding units yielded a final response rate of 72.3% to the HES.

## **Error detection**

The HES questionnaire incorporated many features to maximize the quality of the data collected. There were multiple edits in the computer-assisted interview questionnaire to compare the entered data against unusual values and logical inconsistencies between sections of the questionnaire. When an edit failed, the interviewer was prompted to correct the information, with the help of the respondent. As well, the interviewer had the ability to enter a response of "Don't Know" or "Refused" if the respondent did not answer the question.

Once the data were received at Statistics Canada's head office, an extensive series of processing steps was undertaken to examine each record received. A top-down flow edit was used to clean up any question paths that may have been mistakenly followed during the interview.

## Estimation

Estimates representing in-scope households were produced by assigning weights to each sampled household. The weight of a sampled household indicated the number of households in the population that the unit represented. The initial weight was provided by the CCHS and incorporated the probability of selecting the unit in their sample, as well as other adjustments such as the treatment of non-response to the CCHS.

In order to produce the HES weights, a first adjustment was made to the initial weight to reflect the fact that only a subsample of the CCHS was used. A second adjustment was made to account for the HES nonresponse. Finally, a third and final adjustment was made to produce the final weight. This final adjustment consisted of a post-stratification to the Census projections. The quality of the estimates was assessed using estimates of their CV. Given the complexity of the HES design, CVs cannot be calculated using a simple formula therefore bootstrap replicate weights were used to obtain the CVs of the estimates.

## Quality evaluation

All published data were compared to identical or similar HES data from previous surveys to ensure consistency. Explanations were found for any significant changes. Subject-matter experts confronted the data using other sources as well as by identifying and researching any values that were not consistent with others in the same domain.

## Disclosure control

Statistics Canada is prohibited by law from releasing any data that would divulge information obtained under the *Statistics Act* that relates to any identifiable person, business or organization without the prior knowledge or the consent in writing of that person, business or organization. Various confidentiality rules are applied to all data that are released or published to prevent the publication or disclosure of any information deemed confidential. If necessary, data are suppressed to prevent direct or residual disclosure of identifiable data.

## Coverage

The coverage error of the CCHS, of which the HES is a subsample, is estimated at less than 2%.

## Response rates and sampling error

The response rate for this survey was 72.3%. Provincial response rates ranged from 68% to 75%.

The results estimated from HES are based on a sample of households in Canada. The results obtained from asking the same questions to all Canadian households would differ to some known extent. The extent of this sampling error is quantified by the CV with the following guidelines:

- 16.5% and below: acceptable estimate;
- 16.6% to 33.3%: marginal estimate requiring cautionary note to users; and
- 33.3% and above: unacceptable estimate.

Estimates that do not meet an acceptable level of quality are either flagged for caution or suppressed. CV tables are prepared by Statistics Canada and made available to help users understand the quality of individual estimates.

For example, CVs for the estimated proportion of households that had a compact fluorescent light bulb in 2007 for Canada and the provinces are as follows:

Canada	0.90%
Newfoundland and Labrador	4.44%
Prince Edward Island	4.64%
Nova Scotia	2.47%
New Brunswick	3.06%
Quebec	2.33%
Ontario	1.54%
Manitoba	3.61%
Saskatchewan	3.07%
Alberta	2.88%
British Columbia	1.98%

### Data comparability over time

For the 2007 version of the survey, improvements were made to some questions. Some were reworded or reordered to reflect what was learned during the 2006 collection cycle. While these quality improvements were necessary, they have impacted the comparability of some of the 2007 data with those of 2006. Thus, care should be exercised when making direct year-to-year comparisons for certain topics.

Data obtained from the 2007 survey are directly comparable with data from the 2006 survey for the following variables:

- Main source of water
- Access to and use of recycling programs
- Household composting
- Presence of a thermostat and a programmable thermostat
- Presence of energy-saving light bulbs
- Presence of low-flow shower heads
- Presence of a low-flow toilet or a toilet tank with the water volume modified
- Presence of water purifiers or filters
- Presence of a yard

The following topics describe some of the more significant changes and offer some guidance when making such comparisons for these topics. Further information on making comparisons for topics not listed here can be obtained upon request.

### Topic: Thermostats and dwelling temperature

#### Discussion

In 2006, the questions referred to the “heating” and “cooling” seasons, while in 2007 this was changed to “winter” and “summer” seasons. It is expected that most respondents interpreted these concepts similarly, so the results should be comparable.

#### Potential impact on comparability

Little or no impact – Data can be readily compared.

### Topic: Drinking water

#### Discussion

In 2006, the question asked “What type of water does your household primarily drink at home?”, while the corresponding question in 2007 asked “...what type of water did your household primarily use for drinking?”. The wording of the question in 2006 addressed only water consumed in the home while the wording of the question in 2007 potentially includes water consumed by household members outside the home, such as at work or in restaurants.

#### Potential impact on comparability

Moderate impact – Comparisons should be made with caution.

### Topic: Drinking water treatment

#### Discussion

In 2006, respondents were asked if they “usually boiled their water before drinking it”, while the corresponding question in 2007 asked whether respondents had boiled their water in order to make it safe for drinking in the last twelve months. This wording change could include one-time events that were not a usual mode of water treatment for the respondents. Thus, care must be taken when making direct comparisons for this response.

#### Potential impact on comparability

Moderate impact – Comparisons should be made with caution.

### **Topic: Pesticide use**

#### **Discussion**

In 2006, respondents were asked whether “any weed killers, pesticides or fungicides were applied to their lawn or garden”, without any distinction being made about whether they were using “chemical” or “natural or organic” pesticides. Such a distinction was made in 2007. It is felt that respondents in 2006 generally did not consider natural or organic pesticides when answering the question so comparisons between the two years should be made using the use of chemical pesticide figures from 2007.

#### **Potential impact on comparability**

Significant impact – Comparisons should only be made using the chemical pesticide data.

### **Topic: Fertilizer and pesticide use**

#### **Discussion**

In both 2006 and 2007, the universe for the questions related to fertilizer and pesticide use was based on the presence of a lawn or garden. Apartments were considered in-scope for the universe in 2006, but were out-of-scope in 2007. Users of the 2006 Public Use Microdata File (catalogue no. 16M0001X) should exclude apartments when making comparisons between 2006 and 2007.

#### **Potential impact on comparability**

Moderate – Comparisons should be made with caution.

# Appendix I

## Count tables

**Table A**  
**Thermostat use by households during the winter, Canada and provinces**

	Households reporting at least one thermostat	Winter temperature lowered when asleep	Main thermostat, programmable	Programmable thermostat		Not programmed or non-programmable
				Programmed thermostat	Winter temperature lowered when asleep	
number						
<b>Canada</b>	<b>11,927,999</b>	<b>6,580,648</b>	<b>4,976,029</b>	<b>4,199,165</b>	<b>2,928,148</b>	<b>3,627,538</b>
Newfoundland and Labrador	190,258	113,811	29,836	21,154	16,679	97,133
Prince Edward Island	53,435	33,428	14,468	11,761	9,004	24,424
Nova Scotia	368,342	220,496	91,971	68,512	51,332	169,164
New Brunswick	285,244	152,808	61,903	48,759	33,531	118,907
Quebec	3,080,765	1,717,359	1,129,017	929,946	616,282	1,088,972
Ontario	4,231,974	2,222,437	2,231,287	1,916,022	1,298,358	919,312
Manitoba	439,764	217,452	172,017	134,067	94,978	122,475
Saskatchewan	372,760	218,297	143,476	120,839	94,033	123,681
Alberta	1,297,835	748,394	534,290	479,720	369,203	376,636
British Columbia	1,607,621	936,164	567,763	468,387	344,748	586,833

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table B**  
**Energy-saving light bulbs, Canada and provinces**

	At least one type of energy-saving light	Compact fluorescent lights	Fluorescent tubes	Halogen lights
<b>Canada</b>	<b>10,833,363</b>	<b>8,976,697</b>	<b>5,948,050</b>	<b>4,494,177</b>
Newfoundland and Labrador	144,517	129,999	62,575	40,419
Prince Edward Island	45,211	40,285	23,677	8,953
Nova Scotia	326,889	294,309	165,748	81,037
New Brunswick	245,585	212,438	119,732	68,545
Quebec	2,664,041	2,084,627	1,192,325	1,397,243
Ontario	4,170,026	3,620,087	2,416,708	1,598,896
Manitoba	355,671	282,272	240,409	132,080
Saskatchewan	321,706	247,789	210,458	100,676
Alberta	1,054,680	837,066	602,595	445,183
British Columbia	1,505,037	1,227,824	913,822	621,144

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table C**  
**Indoor water conservation practices, Canada and provinces**

	Had a low-volume toilet	Had a low-flow shower head	Member of household turned off water while brushing teeth			Had a clothes washing machine	Someone in the house ensured that clothes washing machine was full before turning it on		
			Always or often	Sometimes or rarely	Never		Always or often	Sometimes or rarely	Never
	number								
<b>Canada</b>	<b>5,089,657</b>	<b>7,962,196</b>	<b>7,705,693</b>	<b>3,286,691</b>	<b>1,710,737</b>	<b>12,163,254</b>	<b>10,592,276</b>	<b>990,278</b>	<b>354,536</b>
Newfoundland and Labrador	55,735	109,587	78,771	72,772	48,363	195,704	166,038	19,975 <sup>E</sup>	F
Prince Edward Island	17,445	32,514	27,035	16,644	10,832 <sup>E</sup>	53,025	46,751	4,976 <sup>E</sup>	F
Nova Scotia	143,102	241,576	206,757	106,072	66,355	369,452	321,896	35,674 <sup>E</sup>	F
New Brunswick	92,923	184,013	157,838	85,330	54,917	292,719	250,540	25,566	10,223 <sup>E</sup>
Quebec	995,748	2,085,671	1,892,882	872,915	489,677	3,161,626	2,589,870	316,985	185,875
Ontario	2,239,367	3,139,725	2,896,898	1,207,842	595,343	4,378,271	3,976,233	290,208	51,815
Manitoba	172,548	236,266	274,069	100,857	70,096	423,078	355,525	38,331	12,442 <sup>E</sup>
Saskatchewan	140,938	176,377	220,130	99,384	57,108	378,587	322,658	31,610	F
Alberta	617,050	757,941	831,896	331,554	132,439	1,290,110	1,133,649	101,028	41,370 <sup>E</sup>
British Columbia	614,802	998,526	1,119,415	393,323	185,606	1,620,684	1,429,117	125,924	26,899 <sup>E</sup>

Source(s): Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table D**  
**Water supply, Canada and provinces**

	Municipal water supply	Non-municipal water supply	Non-municipal water supply	
			Private well	Surface source
	number			
<b>Canada</b>	<b>11,143,159</b>	<b>1,653,871</b>	<b>1,505,739</b>	<b>97,290</b>
Newfoundland and Labrador	177,057	22,500 <sup>E</sup>	21,043 <sup>E</sup>	F
Prince Edward Island	26,646	28,249	28,249	F
Nova Scotia	214,362	167,362	163,219	F
New Brunswick	151,273	151,843	147,514	F
Quebec	2,920,809	359,997	318,567	40,508 <sup>E</sup>
Ontario	4,190,245	530,856	495,314	21,689 <sup>E</sup>
Manitoba	363,805	81,283	73,253	F
Saskatchewan	345,539	35,948 <sup>E</sup>	28,121 <sup>E</sup>	F
Alberta	1,173,859	136,648 <sup>E</sup>	112,470	F
British Columbia	1,579,565	139,185	117,989	17,830 <sup>E</sup>

Source(s): Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.



**Table E**  
**Primary type of drinking water consumed, Canada and provinces**

	Municipal and non-municipal water supply			Municipal water supply			Non-municipal water supply		
	Tap water	Bottled	Both tap water and bottled water	Tap water	Bottled	Both tap water and bottled water	Tap water	Bottled	Both tap water and bottled water
	number								
<b>Canada</b>	<b>7,601,334</b>	<b>3,933,039</b>	<b>1,287,454</b>	<b>6,528,019</b>	<b>3,375,273</b>	<b>1,162,641</b>	<b>1,017,004</b>	<b>489,788</b>	<b>115,419</b>
Newfoundland and Labrador	113,905	56,965	13,402 <sup>E</sup>	97,069	52,660	11,241 <sup>E</sup>	15,561 <sup>E</sup>	F	F
Prince Edward Island	39,294	11,002	F	17,041	7,381 <sup>E</sup>	F	22,252	F	F
Nova Scotia	240,249	105,776	26,530 <sup>E</sup>	127,973	66,439	F	111,450	39,338	F
New Brunswick	198,365	88,233	11,397 <sup>E</sup>	88,907	53,175	F	109,113	35,058 <sup>E</sup>	F
Quebec	1,956,616	938,570	368,772	1,721,710	827,975	339,533	229,279	94,199 <sup>E</sup>	28,189 <sup>E</sup>
Ontario	2,562,205	1,649,497	559,255	2,239,213	1,422,290	512,177	291,681	189,667	42,878
Manitoba	249,228	167,618	35,586 <sup>E</sup>	196,868	135,740	29,482 <sup>E</sup>	47,847	26,923	F
Saskatchewan	248,503	106,198	27,365	226,822	91,567	25,887	19,442 <sup>E</sup>	14,003 <sup>E</sup>	F
Alberta	817,448	386,204	110,091	732,912	334,595	104,979	81,428 <sup>E</sup>	49,204 <sup>E</sup>	F
British Columbia	1,175,520	422,975	130,558	1,079,503	383,451	114,367	88,952	33,469	F

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table F**  
**Households with a non-municipal water supply that had their water tested by a laboratory, Canada and provinces**

	Non-municipal water supply	Water tested by a laboratory in last twelve months	No problem found
	number		
<b>Canada</b>	<b>1,653,871</b>	<b>578,178</b>	<b>505,252</b>
Newfoundland and Labrador	22,500 <sup>E</sup>	F	F
Prince Edward Island	28,249	9,899	8,933
Nova Scotia	167,362	47,229	37,553
New Brunswick	151,843	39,742	32,003
Quebec	359,997	94,634	74,958
Ontario	530,856	255,344	238,578
Manitoba	81,283	27,377	23,056
Saskatchewan	35,948 <sup>E</sup>	8,853 <sup>E</sup>	F
Alberta	136,648 <sup>E</sup>	43,203 <sup>E</sup>	37,546 <sup>E</sup>
British Columbia	139,185	42,187	35,493

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table G**  
**Treatment of drinking water by households that had a municipal water supply, Canada and provinces**

	Municipal water supply	Households that had a municipal water supply						Boiled water in order to make it safe to drink in the last twelve months
		Primary type of drinking water, tap water <sup>1</sup>	Treated water prior to consumption	Used an on-tap filter or purifier	Used a filter or purifier on the main supply pipe	Used a filter	Used a jug filter	
number								
<b>Canada</b>	<b>11,143,159</b>	<b>7,690,660</b>	<b>4,160,007</b>	<b>918,296</b>	<b>458,710</b>	<b>3,632,067</b>	<b>2,580,348</b>	<b>883,568</b>
Newfoundland and Labrador	177,057	108,310	71,770	17,104 <sup>E</sup>	7,601 <sup>E</sup>	62,156	48,103	22,317
Prince Edward Island	26,646	19,265	8,308	F	F	7,890	5,504 <sup>E</sup>	F
Nova Scotia	214,362	143,781	74,100	F	F	67,152	54,363	F
New Brunswick	151,273	95,850	50,148	F	F	45,358	39,155	F
Quebec	2,920,809	2,061,244	759,799	175,269 <sup>E</sup>	53,844	632,270	438,824	185,007
Ontario	4,190,245	2,751,390	1,763,832	382,485	239,169	1,598,690	1,135,919	292,998
Manitoba	363,805	226,350	120,976	24,894	16,984 <sup>E</sup>	109,214	81,674	20,546 <sup>E</sup>
Saskatchewan	345,539	252,708	120,867	27,744	22,908	111,862	74,474	20,398 <sup>E</sup>
Alberta	1,173,859	837,891	470,216	108,075	49,921	432,290	314,560	71,827 <sup>E</sup>
British Columbia	1,579,565	1,193,870	719,992	156,185	61,162	565,184	387,774	250,683

1. Households that reported using primarily bottled water, or bottled and tap water equally.

Source(s): Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table H**  
**Treatment of drinking water by households that had a non-municipal water supply, Canada and provinces**

	Non-municipal water supply	Households that had non-municipal water supply						Boiled water in order to make it safe to drink in the last twelve months
		Primary type of drinking water, tap water <sup>1</sup>	Treated water prior to consumption	Used an on-tap filter or purifier	Used a filter or purifier on the main supply pipe	Used a filter	Used a jug filter	
number								
<b>Canada</b>	<b>1,653,871</b>	<b>1,132,423</b>	<b>554,430</b>	<b>114,521</b>	<b>345,520</b>	<b>539,520</b>	<b>190,544</b>	<b>37,090</b>
Newfoundland and Labrador	22,500 <sup>E</sup>	17,722 <sup>E</sup>	F	F	F	F	F	F
Prince Edward Island	28,249	24,526	8,284	F	4,672 <sup>E</sup>	8,063	F	F
Nova Scotia	167,362	122,172	65,587	F	42,052	64,035	24,312 <sup>E</sup>	F
New Brunswick	151,843	113,567	48,658	F	24,254	47,748	25,977	F
Quebec	359,997	257,468	87,743	F	64,459	84,693	17,547 <sup>E</sup>	F
Ontario	530,856	334,559	199,244	38,691	130,700	195,322	67,303	F
Manitoba	81,283	53,506	26,632	6,906 <sup>E</sup>	16,366 <sup>E</sup>	26,128	10,303 <sup>E</sup>	F
Saskatchewan	35,948 <sup>E</sup>	20,920 <sup>E</sup>	10,483 <sup>E</sup>	F	F	10,300 <sup>E</sup>	F	F
Alberta	136,648 <sup>E</sup>	86,539 <sup>E</sup>	46,594 <sup>E</sup>	F	20,105 <sup>E</sup>	45,090 <sup>E</sup>	F	F
British Columbia	139,185	101,444	49,955	12,501 <sup>E</sup>	33,120	47,688	12,602 <sup>E</sup>	F

1. Households that reported using primarily bottled water, or bottled and tap water equally.

Source(s): Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table I**  
**Reasons why households with a municipal water supply treated their tap water before using it, Canada and provinces**

	Treated water prior to consumption	Reasons for treating				
		To improve appearance, taste or odour	To remove water treatment chemicals such as chlorine	To remove metals or minerals	To remove possible bacterial contamination	Other reasons
number						
<b>Canada</b>	<b>4,160,007</b>	<b>2,419,447</b>	<b>2,110,124</b>	<b>1,655,395</b>	<b>1,795,724</b>	<b>503,693</b>
Newfoundland and Labrador	71,770	31,767	32,349	23,441 <sup>E</sup>	25,940	15,706 <sup>E</sup>
Prince Edward Island	8,308	5,290 <sup>E</sup>	5,833 <sup>E</sup>	F	F	F
Nova Scotia	74,100	43,549	42,017	19,259 <sup>E</sup>	20,745 <sup>E</sup>	F
New Brunswick	50,148	34,098 <sup>E</sup>	25,697	14,094 <sup>E</sup>	17,485 <sup>E</sup>	F
Quebec	759,799	383,659	379,921	318,352	316,937	96,623
Ontario	1,763,832	1,099,133	862,016	714,989	737,328	198,148
Manitoba	120,976	88,111	62,974	39,573	49,701	13,885 <sup>E</sup>
Saskatchewan	120,867	75,379	60,154	45,020	48,255	20,197
Alberta	470,216	281,502	268,966	207,497	216,985	61,882
British Columbia	719,992	376,961	370,198	270,253	359,803	77,879

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table J**  
**Reasons why households with a non-municipal water supply treated their tap water before using it, Canada and provinces**

	Treated water prior to consumption	Reasons for treating				
		To improve appearance, taste or odour	To remove water treatment chemicals such as chlorine	To remove metals or minerals	To remove possible bacterial contamination	Other reasons
number						
<b>Canada</b>	<b>554,430</b>	<b>234,176</b>	<b>60,363</b>	<b>284,126</b>	<b>172,422</b>	<b>96,982</b>
Newfoundland and Labrador	F	F	F	F	F	F
Prince Edward Island	8,284	F	F	F	F	F
Nova Scotia	65,587	21,442 <sup>E</sup>	F	25,117	F	23,109 <sup>E</sup>
New Brunswick	48,658	19,173	F	23,357	13,825 <sup>E</sup>	F
Quebec	87,743	36,199	F	49,874 <sup>E</sup>	18,348 <sup>E</sup>	11,881 <sup>E</sup>
Ontario	199,244	84,503	26,459 <sup>E</sup>	100,350	78,298	28,225 <sup>E</sup>
Manitoba	26,632	14,522 <sup>E</sup>	F	14,934	9,220 <sup>E</sup>	F
Saskatchewan	10,483 <sup>E</sup>	F	F	F	F	F
Alberta	46,594 <sup>E</sup>	27,469 <sup>E</sup>	F	33,153 <sup>E</sup>	F	F
British Columbia	49,955	18,728 <sup>E</sup>	F	24,966 <sup>E</sup>	18,823 <sup>E</sup>	F

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table K**  
**Household awareness and testing for radon, Canada and provinces**

	Aware of radon	Tested
	number	
<b>Canada</b>	<b>3,900,718</b>	<b>428,609</b>
Newfoundland and Labrador	70,643	F
Prince Edward Island	22,264	F
Nova Scotia	178,002	17,203 <sup>E</sup>
New Brunswick	124,175	F
Quebec	431,583	F
Ontario	1,608,963	217,448
Manitoba	184,155	24,439
Saskatchewan	168,448	19,645
Alberta	526,315	58,645
British Columbia	586,170	61,715

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table L**  
**Use of window cleaning products, Canada and provinces**

	Households that used window cleaning products			Did not use, clean, or have windows in past twelve months
	Used any type of window cleaning product	Commercial chemical cleaner	Other cleaner - biodegradable or vinegar	
	number			
<b>Canada</b>	<b>12,316,867</b>	<b>9,234,828</b>	<b>5,991,445</b>	<b>510,004</b>
Newfoundland and Labrador	192,988	165,690	78,714	F
Prince Edward Island	53,987	45,359	25,383	F
Nova Scotia	366,402	300,323	162,716	F
New Brunswick	290,683	236,667	131,562	F
Quebec	3,191,580	2,284,523	1,579,405	83,333
Ontario	4,579,897	3,584,900	2,225,522	178,684
Manitoba	424,972	326,521	207,553	27,080
Saskatchewan	359,538	255,703	186,778	22,765
Alberta	1,232,420	903,653	623,230	75,729
British Columbia	1,624,400	1,131,489	770,583	89,442

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table M**  
**Indoor use of chemical products, Canada and provinces**

	Used stove cleaners and degreasers	Used solvents	Used indoor pesticides	Used any of these chemical products	Used none of these chemical products
	number				
<b>Canada</b>	<b>5,333,379</b>	<b>2,859,027</b>	<b>1,897,623</b>	<b>7,354,689</b>	<b>5,493,413</b>
Newfoundland and Labrador	99,807	48,577	25,805	124,563	72,502
Prince Edward Island	26,037	14,730	10,357	34,956	19,867
Nova Scotia	149,602	99,549	88,262	229,528	152,473
New Brunswick	143,834	66,501	56,381	188,266	112,655
Quebec	1,332,937	644,364	322,881	1,790,574	1,502,733
Ontario	2,061,730	1,131,002	866,236	2,878,760	1,888,052
Manitoba	215,505	102,007	94,883	288,519	163,908
Saskatchewan	160,505	79,488	77,068	223,916	158,792
Alberta	529,209	288,297	158,862	703,595	590,561
British Columbia	614,213	384,512	196,888	892,012	831,870

Source(s): Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table N**  
**Furnace filter maintenance intervals, Canada and provinces**

	Households that had a forced air furnace	Frequency of furnace filter cleaning or replacement during the last twelve months				
		Every three months or more often	Every six months	Once	Not changed	Did not know
	number					
<b>Canada</b>	<b>6,862,014</b>	<b>2,901,783</b>	<b>1,627,809</b>	<b>1,519,094</b>	<b>327,902</b>	<b>445,433</b>
Newfoundland and Labrador	53,597	11,630 <sup>E</sup>	13,769 <sup>E</sup>	22,748	F	F
Prince Edward Island	22,167	F	F	12,138	F	F
Nova Scotia	173,054	38,183	33,668	69,537	F	F
New Brunswick	68,024	23,186 <sup>E</sup>	12,748 <sup>E</sup>	20,805	F	F
Quebec	521,605	189,356	81,123	147,954	34,170 <sup>E</sup>	F
Ontario	3,511,129	1,606,495	850,205	668,938	132,811	234,978
Manitoba	328,825	162,417	93,749	47,216	F	F
Saskatchewan	306,694	149,418	76,604	57,523	7,505 <sup>E</sup>	14,595 <sup>E</sup>
Alberta	1,064,150	499,491	269,644	193,767	52,006	46,495 <sup>E</sup>
British Columbia	812,770	219,305	193,237	278,468	65,736	46,947

Source(s): Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table O**  
**Pesticide use, Canada and provinces**

	Households reporting having a lawn or a garden	Applied chemical or organic pesticide	Applied chemical pesticide	Applied only chemical pesticide	Type of chemical pesticides applied			Applied organic pesticide	Applied only organic pesticide	Applied both chemical and organic pesticides
					Herbicide	Insecticide	Fungicide			
	number									
<b>Canada</b>	<b>9,083,649</b>	<b>2,999,107</b>	<b>2,255,449</b>	<b>1,946,682</b>	<b>1,795,454</b>	<b>651,239</b>	<b>125,548</b>	<b>1,052,425</b>	<b>743,658</b>	<b>308,767</b>
Newfoundland and Labrador	164,833	40,876	32,815	28,272	20,039 <sup>E</sup>	13,999 <sup>E</sup>	F	12,604 <sup>E</sup>	F	F
Prince Edward Island	44,495	9,294	7,254	5,544	3,304 <sup>E</sup>	4,371 <sup>E</sup>	F	3,749 <sup>E</sup>	F	F
Nova Scotia	318,967	66,958	46,700	40,745	27,134	22,517 <sup>E</sup>	F	26,213 <sup>E</sup>	20,258 <sup>E</sup>	F
New Brunswick	252,131	57,591	43,727	34,024	26,641	18,718	F	23,568	13,864 <sup>E</sup>	F
Quebec	1,982,614	379,055	75,699	62,217	34,737 <sup>E</sup>	37,289	F	316,838	303,355	13,483 <sup>E</sup>
Ontario	3,477,762	1,269,896	1,029,749	889,929	810,497	332,182	74,473	379,967	240,147	139,820
Manitoba	346,821	162,185	149,124	133,132	132,316	25,068	F	29,053	13,060 <sup>E</sup>	15,992 <sup>E</sup>
Saskatchewan	300,703	145,512	136,922	122,820	124,490	19,832	F	22,692	F	14,102 <sup>E</sup>
Alberta	1,042,290	492,262	442,784	401,014	387,644	100,161	F	91,248	49,478 <sup>E</sup>	41,770
British Columbia	1,153,033	375,480	290,676	228,986	228,652	77,101	21,060 <sup>E</sup>	146,494	84,804	61,690

Source(s): Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table P**  
**Fertilizer use, Canada and provinces**

	Households reporting having a lawn or a garden	Applied chemical fertilizer	Applied only chemical fertilizer	Applied organic fertilizer	Applied only organic fertilizer	Applied chemical or organic fertilizer	Fertilizer applied by:			
							Household member	Lawn maintenance company	Someone else	
	number									
<b>Canada</b>	<b>9,083,649</b>	<b>2,446,010</b>	<b>1,601,516</b>	<b>3,065,969</b>	<b>2,221,475</b>	<b>4,667,485</b>	<b>3,529,690</b>	<b>1,072,164</b>	<b>151,685</b>	
Newfoundland and Labrador	164,833	41,724	29,059	45,088	32,423 <sup>E</sup>	74,147	64,668	F	F	
Prince Edward Island	44,495	6,689	3,698 <sup>E</sup>	13,218	10,227	16,917	15,251	F	F	
Nova Scotia	318,967	56,775	29,749	113,094	86,068	142,843	125,095	12,937 <sup>E</sup>	F	
New Brunswick	252,131	52,014	32,868	70,553	51,407	103,421	84,699	16,024 <sup>E</sup>	F	
Quebec	1,982,614	156,601	85,791	876,226	805,416	962,017	670,429	266,956	35,198 <sup>E</sup>	
Ontario	3,477,762	1,099,905	729,077	1,122,362	751,533	1,851,438	1,334,630	510,325	54,341 <sup>E</sup>	
Manitoba	346,821	121,795	81,583	83,305	43,093	164,888	120,822	44,100	F	
Saskatchewan	300,703	140,062	104,293	76,288	40,519	180,581	155,435	19,733	F	
Alberta	1,042,290	466,532	330,455	283,739	147,663	614,194	501,451	102,036	18,989 <sup>E</sup>	
British Columbia	1,153,033	303,913	174,942	382,097	253,126	557,039	457,211	91,978	F	

Source(s): Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table Q**  
**Pesticide application strategies, Canada and provinces**

	Pesticide application strategy						Pesticide applied by:			
	All pesticides		Applied organic pesticide		Applied chemical pesticide		Household member	Lawn maintenance company	Someone else	
	Regular schedule	To address a specific problem	Both regular maintenance and to address a specific problem	Regular schedule	To address a specific problem	Regular schedule				To address a specific problem
number										
<b>Canada</b>	<b>1,182,546</b>	<b>1,823,693</b>	<b>71,748</b>	<b>335,137</b>	<b>403,347</b>	<b>733,763</b>	<b>1,218,012</b>	<b>2,113,327</b>	<b>819,738</b>	<b>90,039</b>
Newfoundland and Labrador	14,702 <sup>E</sup>	26,460	F	F	F	11,051 <sup>E</sup>	16,645 <sup>E</sup>	31,059	F	F
Prince Edward Island	F	7,320	F	F	F	F	4,214 <sup>E</sup>	7,589	F	F
Nova Scotia	21,591 <sup>E</sup>	44,008	F	F	F	F	28,463	55,135	F	F
New Brunswick	23,174	32,207	F	F	F	13,655 <sup>E</sup>	18,295	39,116	15,071	F
Quebec	175,321	197,915	F	158,178	140,378	F	50,994	197,993	170,664	F
Ontario	593,686	691,661	35,157	114,062	131,350	412,728	483,866	805,107	444,559	32,823 <sup>E</sup>
Manitoba	44,696	118,046	F	F	8,514 <sup>E</sup>	35,743	97,406	131,103	27,279	F
Saskatchewan	48,184	98,543	F	F	F	42,193	82,349	124,606	15,724 <sup>E</sup>	F
Alberta	142,740	352,965	F	F	37,792 <sup>E</sup>	123,455	280,670	417,800	61,580	F
British Columbia	116,549	254,567	F	27,261 <sup>E</sup>	53,319	72,266	155,109	303,819	64,800	F

Source(s): Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table R**  
**Awareness of air quality advisories, Canada and provinces**

	Aware of air quality advisories	Changed behaviour due to advisory	Did not change behaviour
	number		
<b>Canada</b>	<b>4,391,700</b>	<b>1,945,291</b>	<b>2,423,875</b>
Newfoundland and Labrador	F	F	F
Prince Edward Island	F	F	F
Nova Scotia	34,260	F	24,589 <sup>E</sup>
New Brunswick	41,211	20,045 <sup>E</sup>	20,260 <sup>E</sup>
Quebec	1,007,526	317,980	681,891
Ontario	2,782,745	1,412,269	1,357,310
Manitoba	74,965	34,288	40,676
Saskatchewan	10,130 <sup>E</sup>	F	5,627 <sup>E</sup>
Alberta	125,141	42,461 <sup>E</sup>	82,680
British Columbia	304,681	99,926 <sup>E</sup>	204,239

Source(s): Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table S**  
**Response to air quality advisories, Canada and provinces**

	Changed behaviour due to advisory							Did not change behaviour
	Did not exercise outside	Used public transit or car-pooled	Turned air conditioning on and/or up	Stayed inside	Did not use gas-powered equipment	Used car	Other changes or activity	
	number							
<b>Canada</b>	<b>868,262</b>	<b>229,128</b>	<b>415,410</b>	<b>1,501,848</b>	<b>365,923</b>	<b>319,220</b>	<b>198,256</b>	<b>2,423,875</b>
Newfoundland and Labrador	F	F	F	F	F	F	F	F
Prince Edward Island	F	F	F	F	F	F	F	F
Nova Scotia	F	F	F	F	F	F	F	24,589 <sup>E</sup>
New Brunswick	F	F	F	15,360 <sup>E</sup>	F	F	F	20,260 <sup>E</sup>
Quebec	136,949	56,506 <sup>E</sup>	39,491 <sup>E</sup>	199,134	20,334 <sup>E</sup>	36,059 <sup>E</sup>	56,955 <sup>E</sup>	681,891
Ontario	656,539	160,023	360,544	1,146,174	331,314	247,845	103,643	1,357,310
Manitoba	10,833 <sup>E</sup>	F	F	27,116 <sup>E</sup>	F	F	F	40,676
Saskatchewan	F	F	F	F	F	F	F	5,627 <sup>E</sup>
Alberta	F	F	F	29,360 <sup>E</sup>	F	F	F	82,680
British Columbia	31,423 <sup>E</sup>	F	F	69,904 <sup>E</sup>	F	F	F	204,239

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.

**Table T**  
**Purchasing decisions, Canada and provinces**

	Purchased organic foods			Used a recycled or reusable bag or container when grocery shopping		
	Always	Often or sometimes	Rarely or never	Always	Often or sometimes	Rarely or never
	number					
<b>Canada</b>	<b>606,842</b>	<b>5,871,758</b>	<b>6,199,673</b>	<b>3,944,285</b>	<b>5,341,788</b>	<b>3,467,436</b>
Newfoundland and Labrador	F	81,730	105,219	26,993	72,952	92,880
Prince Edward Island	F	25,787	25,908	12,594	21,544	19,339
Nova Scotia	F	156,049	210,197	84,199	132,052	162,414
New Brunswick	F	123,296	163,463	58,527	109,402	130,357
Quebec	124,364	1,507,255	1,626,044	1,087,657	1,301,049	889,085
Ontario	245,781	2,108,163	2,348,661	1,660,358	2,080,556	993,123
Manitoba	13,974	188,083	244,353	135,836	181,907	132,108
Saskatchewan	11,449 <sup>E</sup>	154,698	207,312	96,016	148,928	132,931
Alberta	63,804 <sup>E</sup>	647,268	574,347	322,490	533,786	433,503
British Columbia	122,380 <sup>E</sup>	879,430	694,170	459,615	759,613	481,697

**Source(s):** Statistics Canada, Environment Accounts and Statistics Division, Households and the Environment Survey, 2007.



## Appendix II

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### **Questionnaire – Households and the Environment Survey - 2007 (HES)**

Households and the Environment Survey - 2007

Copy of the questionnaire can be seen at the end of this report (or IMDB record number 3881).

**Section: Dwelling Characteristics (DC)**

**DC\_BEG** Beginning of Section

**DC\_IMP** Import from Demographics: hhldnum in (1..20)  
Import from Entry: Dwelcode in (01..10)

**DC\_R01** **The first set of questions are about the dwelling in which you currently reside.**

INTERVIEWER: Press <1> to continue.

\_\_\_\_(1 Space) (Min: 1 Max: 1)

**DC\_Q01** **In what year was this dwelling originally built?**

INTERVIEWER: Provides best estimate.

\_\_\_\_\_ (4 spaces) (Min : 1800 Max :2007)

DK, R .....(Go to DC\_Q01A)

Coverage: *All responding households*

Defaultt : (Go to DC\_D01)

**DC\_Q01A** **Was it built...**

INTERVIEWER: Read categories to respondent.

- 1 **before 1946?**
  - 2 **between 1946 and 1960?**
  - 3 **between 1961 and 1973?**
  - 4 **between 1974 and 1983?**
  - 5 **between 1984 and 1995?**
  - 6 **between 1996 and 2000?**
  - 7 **between 2001 and 2005?**
  - 8 **2006 or later?**
- DK, RF

**DC\_D01** Create dcfill1  
If hhldnum=1, then dcfill1 = "Are you the owner of this dwelling",  
Else, dcfill1 = "Is the dwelling owned by a member of this household"

**DC\_Q02** **^dcfill1?**

- 1 Yes
  - 2 No
- DK, RF

Coverage: *All responding households*

**DC\_C03** If DWELCODE=03, 05, 06 (Townhouse, Low Rise, High Rise).... (Go to DC\_Q03)  
Else..... (Go to DC\_C04)

**DC\_Q03 Is the dwelling part of a condominium?**

- 1 Yes
  - 2 No
- DK, RF

Coverage: All responding households

**DC\_C04** If DC\_Q02=1 and DC\_Q03=2, DK, RF.....(Go to DC\_D05)  
Else.....(Go to DC\_D04)

**DC\_D04** Create dcfill2  
If DC\_Q02=1, DK, RF and DC\_Q03=1, then dcfill2 = "the condominium corporation",  
Else, dcfill2 = "the landlord or property manager",

**DC\_Q04 Is ^dcfill2 responsible for paying any of the energy bills for the dwelling?**

- 1 Yes
  - 2 No
- DK, RF

Coverage: All respondents

**DC\_D05** Create dcfill3  
If hhldnum=1, then dcfill3 = "have you",  
Else, dcfill3 = "has your household"

**DC\_Q05 How long ^dcfill3 lived in this dwelling?**

INTERVIEWER: Provide best estimate in months or years. Probe for the length of time that at least one household member has lived in the current dwelling.

\_\_\_\_(2 spaces) (Min: 1 Max: 95)  
DK, RF.....(Go to DC\_End)

Coverage: All responding households

**DC\_N05 INTERVIEWER: If necessary ask: (Is this in months or years?)**

- 1 Months
  - 2 Years
- Disable DK, RF

Coverage: All responding households

**DC\_END** End of Section

**Section: Energy Use and Home Heating (EH)**

**EH\_BEG** Beginning of Section

**EH\_IMP** Import from Demographics: hhldnum in (1..20)

**EH\_R01** **The next questions are about the use of energy within your dwelling.**

INTERVIEWER: Press <1> to continue.

\_\_\_\_(1 Space) ([Min: 1 Max: 1])

**EH\_Q01** **What is your dwelling's main type of heating equipment? Is it a...**

INTERVIEWER: Read categories to respondent.

- 01 **furnace with forced air?** (hot air vents)
- 02 **electric baseboards?**.....(Go to EH\_Q03)
- 03 **heating stove?**
- 04 **boiler with hot water or steam radiators?**
- 05 **electric radiant heating?** .....(Go to EH\_Q03)
- 06 **heat pump?** .....(Go to EH\_Q03)
- 07 Other – Specify.....(Go to EH\_S01)
- DK, RF.....(Go to EH\_Q03)

Default: (Go to EH\_D02)

Coverage: All respondents

**EH\_S01** What is your dwelling's main type of heating equipment?

INTERVIEWER: Specify

\_\_\_\_\_ (80 spaces)

Note: Disable DK, RF

**EH\_D02** Create Furnace

If EH\_Q01=1 then Furnace = 'furnace with forced air';  
Else if EH\_Q01=3 then Furnace = 'heating stove';  
Else if EH\_Q01=4 then Furnace = 'boiler with hot water or steam radiators';  
Else EH\_Q01= 7 then Furnace = '^EH\_S01'

**EH\_Q02** **What source of energy does your ^Furnace use?**

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **Electricity**
- 2 **Natural gas**
- 3 **Heating oil**
- 4 **Wood or wood pellets**
- 5 **Propane**
- 6 Other – Specify.....(Go to EH\_S02)
- DK, RF

Default: (Go to EH\_Q03)

Coverage: All respondents

**EH\_S02** What source of energy does your ^Furnace use?

INTERVIEWER: Specify.

\_\_\_\_\_(80 spaces)

Note: Disable DK, RF

**EH\_Q03** Does your dwelling have an air conditioner?

1 Yes

2 No ..... (Go to EH\_R05)

DK, RF ..... (Go to EH\_R05)

Coverage: All respondents

**EH\_Q04** Is it a...

INTERVIEWER: Read categories to respondent. Mark all that apply.

1 **central air system?**

2 **a stand alone unit in a window or elsewhere?**

3 Other – Specify ..... (Go to EH\_S04)

DK, RF

Default: (Go to EH\_R05)

Coverage: Respondents who have an air conditioner

**EH\_S04** Is it a...

INTERVIEWER: Specify.

\_\_\_\_\_(80 spaces)

Note: Disable DK, RF

**EH\_R05** Now I would like to ask about how you control the temperature in your dwelling.

INTERVIEWER: Press <1> to continue.

\_\_\_\_(1 Space) (Min: 1 Max: 1)

EH\_Q05

**Do you have a thermostat?**

**INTERVIEWER:** If necessary, ask: **(Can you control or regulate the temperature in your dwelling?)**

- 1 Yes
- 2 No .....(Go to EH\_C11)  
DK, RF .....(Go to EH\_C11)

EH\_Q06

**How many thermostats do you have?**

- 1 One
- 2 More than one  
DK, RF .....(Go to EH\_Q09)

Coverage: *All respondents*

EH\_D07

Create Maintermo

If EH\_Q06=1 then Maintermo = 'Is it';

If EH\_Q06=2 then Maintermo = 'Is your main thermostat';

EH\_Q07

**^Maintermo programmable? That is, it can be set to automatically change the temperature according to the time of day.**

- 1 Yes
- 2 No .....(Go to EH\_Q09)  
DK, RF .....(Go to EH\_Q09)

Coverage: *Respondents who have a thermostat in their home*

EH\_Q08

**Is it programmed?**

- 1 Yes
- 2 No  
DK, RF

Coverage: *Respondents who have a programmable thermostat in their home*

EH\_Q09

**During the winter season, at what temperature is the dwelling usually kept:  
.. when you are there and awake?**

**INTERVIEWER:** Only enter the degree. If respondent has replied "turn it off", please enter a value of zero.

\_\_\_\_(2 spaces) ([Min: 0 Max: 94)  
DK, RF

Coverage: *Respondents who have a thermostat in their home*

EH\_E09

An unusual value has been entered. Please confirm.

Note: Trigger soft edit if 1=<EH\_Q09<10 or 30<EH\_Q09<60 or EH\_Q09>90

**EH\_Q10** During the winter season, at what temperature is the dwelling usually kept:

**... when you are asleep?**

INTERVIEWER: Only enter the degree. If respondent has replied "turn it off", please enter a value of zero.

\_\_\_\_(2 spaces) [Min: 0 Max: 94]  
DK, RF

*Coverage: Respondents who have a thermostat in their home*

**EH\_E10** An unusual value has been entered. Please confirm.

Note: Trigger soft edit if  $1 \leq \text{EH\_Q10} < 10$  or  $30 < \text{EH\_Q10} < 60$  or  $\text{EH\_Q10} > 90$

**EH\_C11** If EH\_Q04=1 (central air system) ..... (Go to EH\_Q11)  
Else ..... (Go to EH\_Q14)

**EH\_Q11** **During the summer season, at what temperature is the dwelling usually kept:**

**... when you are there and awake?**

INTERVIEWER: Only enter the degree. If respondent has replied "turn it off", please enter a value of zero.

\_\_\_\_(2 spaces) [Min: 0 Max: 94]  
DK, RF

*Coverage: Respondents who have central air conditioning and a thermostat in their home*

**EH\_E11** An unusual value has been entered. Please confirm.

Note: Trigger soft edit if  $1 \leq \text{EH\_Q11} < 10$  or  $30 < \text{EH\_Q11} < 60$  or  $\text{EH\_Q11} > 90$

**EH\_Q12** During the summer season, at what temperature is the dwelling usually kept:

**... when you are asleep?**

INTERVIEWER: Only enter the degree. If respondent has replied "turn it off", please enter a value of zero.

\_\_\_\_(2 spaces) [Min: 0 Max: 94]  
DK, RF

*Coverage: Respondents who have central air conditioning and a thermostat in their home*

**EH\_E12** An unusual value has been entered. Please confirm.

Note: Trigger soft edit if  $1 \leq \text{EH\_Q12} < 10$  or  $30 < \text{EH\_Q12} < 60$  or  $\text{EH\_Q12} > 90$

**EH\_Q13** During the summer season, at what temperature is the dwelling usually kept:

**... when you are not at home?**

INTERVIEWER: Only enter the degree. If respondent has replied "turn it off", please enter a value of zero.

\_\_\_\_(2 spaces) [Min: 0 Max: 94]  
DK, RF

*Coverage: Respondents who have central air conditioning and a thermostat in their home*

**EH\_E13** An unusual value has been entered. Please confirm.

**Note:** Trigger soft edit if  $1 < \text{EH\_Q013} < 10$  or  $30 < \text{EH\_Q013} < 60$  or  $\text{EH\_Q013} > 90$

**EH\_Q14** **Do you have any of the following types of energy saving lights?**

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **Compact fluorescent lights** (for example corkscrew or spiral)
- 2 **Fluorescent tubes**
- 3 **Halogen lights**
- 4 **LED holiday lights**
- 5 None of the above – Household does not have any energy saving lights  
DK, RF

*Coverage: All Respondents*

**EH\_E14** **You cannot select "None of the above – Household does not have any energy saving lights" with any other category. Please return and correct.**

**Note:** Trigger hard edit if  $\text{EH\_Q14} = 5$  and any other category.

**EH\_D15** Create ehfill  
If  $\text{hhldres} = 1$ , then  $\text{ehfill} = \text{"you do"}$ ,  
Else,  $\text{ehfill} = \text{"anyone in your household does"}$

**EH\_Q15** **Please indicate if ^ehfill any of the following.  
Do you...**

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 01 **use dimmers on household lights?**
- 02 **unplug electronics when away for an extended period of time?**
- 03 **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)
- 04 **use a clothesline or drying rack to dry clothing?**
- 05 **use fans for cooling in the summer?**
- 06 **close the blinds or drapes in your dwelling during the hottest part of the day?**
- 07 **put plastic film on the windows in the winter?**
- 08 **put on more clothing, such as a sweater, instead of adjusting the temperature?**
- 09 None of the above activities



DK, RF

Coverage: *All Respondents*

**EH\_E15**      **You cannot select “None of the above” with any other category. Please return and correct.**

Note:            Trigger hard edit if EH\_Q15=9 and any other category.

**EH\_END**      **End of section**

FOR INFORMATION ONLY

**Section: Water (WA)**

**WA\_BEG** Beginning of Section

**WA\_IMP** Import DWELCODE (01...10)  
From Demographics: hhldnum (1...20)

**WA\_R01** **The next set of questions are about the use of water in your dwelling.**

INTERVIEWER: Press <1> to continue.

\_\_\_\_(1 Space) [Min: 1 Max: 1]

**WA\_Q01** **What is your dwelling's main source of water? Is it...**

INTERVIEWER: Read categories to respondent.

- 1 **water supplied by your city, town or municipality?**
- 2 **water from a private well?**
- 3 **water from a surface source such as a spring, lake, river, or dugout?**
- 4 Other – Specify ..... (Go to WA\_S01)  
DK, RF

Default: (Go to WA\_D02)

Coverage: *All respondents*

**WA\_S01** What is your dwelling's main source of water?

INTERVIEWER: Specify

\_\_\_\_\_ (80 spaces)

Note: Disable DK, RF

**WA\_D02** Create wafill1  
If hhldnum = 1 then wafill1 = "you",  
Else, wafill1 = "your household"

**WA\_Q02** **During the last 12 months, what type of water did ^wafill1 primarily use for drinking? Was it...**

INTERVIEWER: Read categories to respondent.

- 1 **tap water?**
- 2 **bottled water including purchased water in a water cooler, tank or other dispenser?**
- 3 both? ..... (Go to WA\_Q04)
- 4 Other – Specify ..... (Go to WA\_S02)  
DK, RF ..... (Go to WA\_Q04)

Default: (Go to WA\_D03)

Coverage: *All respondents*

**WA\_S02** During the last 12 months, what type of water did ^wafill1 primarily use for drinking ?

INTERVIEWER: Specify.

\_\_\_\_\_ (80 spaces)

Note: Disable DK, RF

**WA\_D03** Create wafill2  
If hhldnum=1 then wafill2 = "you",  
Else wafill2 = "anyone in your household"

**WA\_D03A** Create typwater  
If WA\_Q02=1 then typwater = "bottled water"  
Else if WA\_Q02=2 then typwater = "tap water"  
Else typwater=" tap or bottled water"

**WA\_Q03** **During the last 12 months, did ^wafill1 occasionally use ^typwater for drinking?**

- 1 Yes
- 2 No
- DK, RF

Coverage: Respondents who do not primarily use bottled water or both tap water and bottled water for drinking.

**WA\_Q04** **During the last 12 months, did you do any of the following to the main water source? Did you...**

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **use a filter or purifier on the main supply pipe?**
- 2 **use a filter or purifier on the taps?**
- 3 **use a jug filter?** (for example Brita system)
- 4 **boil water?** (in order to make it safe for drinking)
- 5 do nothing? ..... (Go to WA\_C08)
- DK, RF ..... (Go to WA\_C08)

Coverage: All Respondents

**WA\_E04** **You cannot select "do nothing" with any other category. Please return and correct.**

Note: Trigger hard edit if WA\_Q04=5 and any other category.

**WA\_C05** If WA\_Q04=1 (filter on main supply pipe) ..... (Go to WA\_Q05)  
Else ..... (Go to WA\_C06)

**WA\_Q05** What type of filter or water treatment was used on the main supply pipe?  
Was it...

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 an activated charcoal or carbon filter?
- 2 an ultraviolet light system?
- 3 a reverse osmosis system?
- 4 a distilled water system?
- 5 Other – Specify ..... (Go to WA\_S05)  
DK, RF

Default: (Go to WA\_C06)

Coverage: All Respondents who have a filter on the main supply pipe.

**WA\_S05** What type of filter or water treatment was used on the main supply pipe?

INTERVIEWER: Specify.

\_\_\_\_\_ (80 spaces)

Note: Disable DK, RF

**WA\_C06** If WA\_Q04=2 (filter or purifier on taps) ..... (Go to WA\_Q06)  
Else ..... (Go to WA\_C07)

**WA\_Q06** What type of filter or water treatment was used on your taps? Was it...

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 an activated charcoal or carbon filter?
- 2 a ceramic filter?
- 3 a reverse osmosis system?
- 4 a distilled water system?
- 5 an ultraviolet light system?
- 6 Other – Specify ..... (Go to WA\_S06)  
DK, RF

Default: (Go to WA\_C07)

Coverage: All respondents who have a filter on their tap.

**WA\_S06** What type of filter or water treatment was used on your taps?

INTERVIEWER: Specify.

\_\_\_\_\_ (80 spaces)

Note: Disable DK, RF

**WA\_C07** If WA\_Q04=1,2,3,4, (use some type of filter or boil water) ..... (Go to WA\_Q07)  
Else ..... (Go to WA\_C08)

**WA\_Q07 Why did you treat the water? Was it...**

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 to improve the appearance, taste or odour?
- 2 to remove water treatment chemicals such as chlorine?
- 3 to remove metals or minerals?
- 4 to remove possible bacterial contamination?
- 5 other?  
DK, RF

Coverage: Respondents in households that treat their water in some form

**WA\_C08** If WA\_Q01=1 (water from city, town or municipality) .....(Go to WA\_Q10)  
Else ..... (Go to WA\_Q08)

**WA\_Q08 In the last 12 months, was your water tested by a laboratory?**

- 1 Yes
- 2 No .....(Go to WA\_Q10)  
DK, RF .....(Go to WA\_Q10)

Coverage: Respondents whose dwellings main source of water is well or surface source or other

**WA\_Q09 Were any problems found?**

- 1 Yes
- 2 No  
DK, RF

Coverage: Respondents whose dwelling main source of water is well or surface source or other, and had their water tested by laboratory in the last 12 months.

**WA\_Q10 Is your dwelling connected to...**

INTERVIEWER: Read categories to respondent.

- 1 the sewer system of your city, town or municipality? .....(Go to WA\_C13)
- 2 a private septic system, including holding tanks?
- 3 a communal septic system? .....(Go to WA\_C13)
- 4 other? .....(Go to WA\_C13)  
DK, RF .....(Go to WA\_C13)

Coverage: All respondents

**WA\_Q11 When was the last time your septic tank or system was pumped, maintained or inspected? Was it ...**

INTERVIEWER: Read categories to respondent.

- 1 **within the last year?**
- 2 **1 year to less than 3 years ago?**
- 3 **3 years to less than 5 years ago?**
- 4 **5 or more years ago?**
- 5 never?.....(Go to WA\_C13)
- DK, RF.....(Go to WA\_C13)

Coverage: *Respondents whose dwelling is connected to a private septic system.*

**WA\_Q12** **Were there any problems found the last time your septic system was pumped, maintained or inspected?**

- 1 Yes
- 2 No
- DK, RF

Coverage: *Respondents whose dwelling is connected to a private septic system who have pumped, maintained or inspected.*

**WA\_C13** If WA\_Q01=1 (water from city, town or municipality) .....(Go to WA\_Q13)  
Else.....(Go to WA\_Q14)

**WA\_Q13** **Do you have:**

**...a meter to measure your water use?**

- 1 Yes
- 2 No
- DK, RF

Coverage: *Respondents whose main source of water is supplied by their city, town or municipality*

**WA\_Q14** **Do you have:**

**... a water saving, low flow showerhead?**

- 1 Yes
- 2 No
- DK, RF

Coverage: *All respondents*

**WA\_Q15** **Do you have:**

**... a low volume toilet or a toilet tank with the water volume modified for example with a bottle or a brick?**

- 1 Yes
- 2 No
- DK, RF

Coverage: *All respondents*

**WA\_C16** If DWELCODE=5 or 6 (Low Rise or High Rise Apt.).....(Go to WA\_Q28)  
Else.....(Go to WA\_Q16)

**WA\_Q16** Do you have:

**... a lawn or an area with grass?**

- 1 Yes
- 2 No .....(Go to WA\_Q23)
- DK, RF .....(Go to WA\_Q23)

Coverage: Respondents who do not live in an apartment.

**WA\_Q17** Last summer, did ^wafill2 water your lawn? Please include automatic sprinkler and irrigation systems.

- 1 Yes
- 2 No .....(Go to WA\_Q23)
- 3 Not applicable (no lawn last summer) .....(Go to WA\_Q23)
- DK, RF .....(Go to WA\_Q23)

Coverage: Respondents who do not live in an apartment and who had a lawn last summer.

**WA\_Q18** Last summer, during an average week, how many times was your lawn watered? Was it...

INTERVIEWER: Read categories to respondent.

- 1 **less than once a week?**
- 2 **once a week?**
- 3 **twice a week?**
- 4 **three times or more a week?**
- DK, RF .....(Go to WA\_Q20)

Coverage: Respondents who do not live in an apartment, who had a lawn last summer and reported it was watered

**WA\_Q19** On average, how long was each watering session? Was it...

INTERVIEWER: Read categories to respondent.

- 1 **less than 15 minutes?**
- 2 **15 to less than 30 minutes?**
- 3 **30 to less than 60 minutes?**
- 4 **60 minutes or more?**
- DK, RF

Coverage: Respondents who do not live in an apartment, who had a lawn last summer and reported it was watered

**WA\_Q20** At what time of the day was your lawn usually watered? Was it...

INTERVIEWER: Read categories to respondent.

- 1 **early in the morning?**
- 2 **during the day?**
- 3 **in the evening or just before dusk?**

4 **at various times – no usual routine?**  
DK, RF

Coverage: *Respondents who do not live in an apartment, who had a lawn last summer and reported it was watered*

**WA\_Q21 How was your lawn usually watered? Was it...**

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **by hand using a watering can or a hose?** (include soaker hoses)
- 2 **with a sprinkler or sprinkler system?**
- 3 other?  
DK, RF

Coverage: *Respondents who do not live in an apartment, who had a lawn last summer and reported watering it*

**WA\_C22** If WA\_Q21=2 (use of sprinkler system).....(Go to WA\_Q22)  
Else.....(Go to WA\_Q23)

**WA\_Q22 Was the sprinkler or sprinkler system connected to a timer?**

- 1 Yes
- 2 No  
DK, RF

Coverage: *Respondents who do not live in an apartment, who had a lawn last summer with a sprinkler system*

**WA\_Q23 Do you have a garden or areas with trees, shrubs, flowers or vegetables outside?**

- 1 Yes
- 2 No .....(Go to WA\_Q28)
- DK, RF .....(Go to WA\_Q28)

Coverage: *Respondents who do not live in an apartment*

**WA\_Q24 Last summer, did ^wafill2 water these areas?**

- 1 Yes
- 2 No .....(Go to WA\_Q28)
- 3 No, applicable (no garden last summer) .....(Go to WA\_Q28)
- DK, RF .....(Go to WA\_Q28)

Coverage: *Respondents who do not live in an apartment who have a garden*



**WA\_Q25** Last summer, during an average week, how many times were these areas watered? Was it...

INTERVIEWER: Read categories to respondent.

- 1 **less than once a week?**
  - 2 **once a week?**
  - 3 **twice a week?**
  - 4 **three times or more a week?**
- DK, RF

Coverage: Respondents who do not live in an apartment that had a garden last summer and reported it was watered

**WA\_Q26** How were these areas usually watered? Was it...

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **by hand using a watering can or a hose?** (include soaker hoses)
  - 2 **with a sprinkler or sprinkler system?**
  - 3 other?
- DK, RF

Coverage: Respondents who do not live in an apartment that had a garden last summer and reported watering it

**WA\_C27** If WA\_Q26=2 (use of sprinkler system).....(Go to WA\_Q27)  
Else .....(Go to WA\_D28)

**WA\_Q27** Was the sprinkler or sprinkler system connected to a timer?

- 1 Yes
  - 2 No
- DK, RF

Coverage: Respondents who do not live in an apartment that had a garden last summer and reported watering it with a sprinkler system

**WA\_D28** Create wafill3  
If hhldnum=1, then wafill3 = "did you turn off the tap when brushing your",  
Else, wafill3 = "did members of your household turn off the tap when brushing their"

**WA\_Q28** In the last 12 months, how often ^wafill3 teeth?

INTERVIEWER: Read categories to respondent.

- 1 **Always**
  - 2 **Often**
  - 3 **Sometimes**
  - 4 **Rarely**
  - 5 **Never**
- DK, RF

Coverage: All respondents

**WA\_D29** Create wafill4  
If hhldnum=1, then wafill4 = "did you",  
Else, wafill4 = "did someone"

**WA\_Q29** In the last 12 months, **how often** ^wafill4 ensure that the washing machine was full (of clothing) before it was turned on?

INTERVIEWER: Read categories to respondent.

- 1 **Always**
- 2 **Often**
- 3 **Sometimes**
- 4 **Rarely**
- 5 **Never**
- 6 Do not have a washing machine in the dwelling  
DK, RF

Coverage: *All respondents*

**WA\_Q30** In the last 12 months, **how often** ^wafill4 ensure that the dishwasher was full before it was turned on?

INTERVIEWER: Read categories to respondent.

- 1 **Always**
- 2 **Often**
- 3 **Sometimes**
- 4 **Rarely**
- 5 **Never**
- 6 Do not have a dishwasher in the dwelling  
DK, RF

Coverage: *All respondents*

**WA\_C31** If DWELCODE=5 or 6 (Low Rise and High Rise Apt.).....(Go to WA\_END)  
Else.....(Go to WA\_Q31)

**WA\_Q31** Do you have a barrel or cistern to collect rain water?

- 1 Yes
- 2 No  
DK, RF

Coverage: *Respondents who do not live in an apartment.*

**WA\_END** End of Section

**Section: Fertilizer and Pesticide use (FP)**

**FP\_BEG** Beginning of Section

**FP\_IMP** Import from WA: WA\_Q16 in (1,2, DK, RF)  
WA\_Q23 in (1,2,DK, RF)

**FP\_C01** If WA\_Q16=1 or WA\_Q23=1(lawn or garden)..... (Go to FP\_D01)  
Else.....(Go to FP\_END)

**FP\_D01** Create LawnGard  
If WA\_Q16=1 and WA\_Q23 ne 1, then LawnGard='lawn'  
Else if WA\_Q16 ne 1 and WA\_Q23=1, then LawnGard='garden'  
Else then LawnGard='lawn or garden'

**FP\_R01** **The following questions are about fertilizer and pesticide use.**

INTERVIEWER: Press <1> to continue.

\_\_\_\_(1 Space) [Min: 1 Max: 1]

**FP\_Q01** **In the last 12 months, were any chemical fertilizers applied to your ^LawnGard?**

- 1 Yes
  - 2 No
- DK, RF

*Coverage: Responding households who do not live in an apartment and had a lawn or a garden last summer*

**FP\_Q02** **In the last 12 months, were any natural or organic fertilizers applied to your ^LawnGard?**

- 1 Yes
  - 2 No
- DK, RF

*Coverage: Responding households who do not live in an apartment and had a lawn or a garden last summer*

**FP\_C03** if FP\_Q01=1 or FP\_Q02=1 .....(Go to FP\_Q03)  
Else.....(Go to FP\_Q04)

**FP\_Q03** **Who applied the fertilizers to your ^LawnGard in the last 12 months? Was it...**

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **someone in your household?**
  - 2 **a lawn care or maintenance company?**
  - 3 **someone else? (for example a friend, neighbour, family)**
- DK, RF

*Coverage: Responding households who do not live in an apartment and had a lawn or a garden last summer and used fertilizers*

**FP\_Q04** In the last 12 months, were any **chemical** pesticides such as weed killers (herbicides), **bug killers** (insecticides), or **fungicides** applied to your ^LawnGard? Please include fertilizer and herbicide mixes such as 'Weed and Feed'.

- 1 Yes
- 2 No ..... (Go to FP\_Q06)
- DK, RF ..... (Go to FP\_Q06)

Coverage: Responding households who do not live in an apartment and had a lawn, garden or outdoor plants last summer

**FP\_Q05** What type of **chemical** pesticides were applied to your ^LawnGard? Was it...

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **weed killer?** (Herbicide)
- 2 **bug killer?** (Insecticide)
- 3 **fungicide?**
- DK, RF

Coverage: Responding households who do not live in an apartment and had a lawn or a garden last summer and had chemical pesticides applied.

**FP\_Q06** In the last 12 months, were any **natural or organic** pesticides applied to your ^LawnGard?

- 1 Yes
- 2 No
- DK, RF

Coverage: Responding households who do not live in an apartment and had a lawn or a garden last summer.

**FP\_C07** If FP\_Q04=1 or FP\_Q06=1 ..... (Go to FP\_Q07)  
Else ..... (Go to FP\_END)

**FP\_Q07** Were the pesticide products applied to your ^LawnGard...

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **as part of a regular maintenance schedule?** (include seasonal application)
- 2 **when a specific problem arose?**
- 3 Other
- DK, RF

Coverage: Responding households who do not live in an apartment and had a lawn or a garden last summer and had pesticides applied.

**FP\_Q08** Who applied the pesticides to your ^LawnGard in the last 12 months? Was it...

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **someone in your household?**
- 2 **a lawn care or maintenance company?**
- 3 **someone else?** (for example friend, neighbour, family)  
DK, RF

Coverage: *Responding households who do not live in an apartment and had a lawn or a garden last summer and had pesticides applied.*

**FP\_END** End of Section

FOR INFORMATION ONLY

**Section: Recycling (RC)**

**RC\_BEG** Beginning of Section

**RC\_IMP** Import from Entry DWELCODE in (1..10)  
Import from Demographics: hhldnum (1..20)

**RC\_R01** **The next few questions are about household recycling.**

INTERVIEWER: Press <1> to continue.

\_\_\_\_(1 Space) (Min: 1 Max: 1)

**RC\_D01** Create rfill1  
If hhldnum=1, then rfill1 = "do you",  
Else, rfill1 = "does your household"

**RC\_D01A** Create rfill9  
If dwelcode=5 or 6, then rfill9 = "A municipal curb side pickup program  
(or containers or bins in or near your building)",  
Else, rfill9 = "A municipal curb side pickup program"

**RC\_Q01** **Excluding containers that are returned for refund, do you have access to any of the following types of recycling programs for paper, plastics, glass or metals?**

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **^rfill9**
- 2 **A drop-off center or depot** (including at a landfill site)
- 3 Other - Specify..... (Go to RC\_S01)
- 4 No recycling program available to household ..... (Go to RC\_Q09)
- DK, RF ..... (Go to RC\_Q09)

Default: (Go to RC\_E01)

Coverage: *All responding households*

**RC\_S01** Excluding containers that are returned for refund, do you have access to any of the following types of recycling programs for paper, plastics, glass or metals?

INTERVIEWER: Specify.

\_\_\_\_\_ (80 spaces)

Note: Disable DK, RF

**RC\_E01** You cannot select "No recycling program available to household" with any other category. Please return and correct.

Note: Trigger hard edit if RC\_Q01=4 and any other category.

**RC\_D02** Create ThisThese  
If only one category selected in RC\_Q01=1,2,3 then ^ThisThese= 'this program'  
If more than one category selected in RC\_Q01=1,2,3 then ^ThisThese= 'these programs'

**RC\_Q02** What products are accepted in ^ThisThese?

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **Paper** (Include newsprint, cardboard)
  - 2 **Plastics** (Include plastic soft drink bottles, polycoats (milk containers) and any other plastic containers)
  - 3 **Glass** (Include jars, juice bottles, wine bottles and any other glass containers)
  - 4 **Metal cans and containers** (Include soft drink cans, soup or juice cans and any other metal food containers)
- DK, RF

Coverage: Responding households who have access to a recycling program for paper, plastics, glass or metal.

**RC\_C03** If RC\_Q02=1.....(Go to RC\_D03)  
Else .....(Go to RC\_C04)

**RC\_D03** Create rfill2  
If hhldnum=1, then rfill2 = "did you",  
Else, rfill2 = "did your household"

**RC\_Q03** During an average week in the last 12 months, how much recyclable paper waste did you recycle? Was it ...

INTERVIEWER: Read categories to respondent.

- 1 all?
  - 2 most?
  - 3 some?
  - 4 none?
- DK, RF

Coverage: Responding households who have access to a recycling program for paper.

**RC\_C04** If RC\_Q02=2 (Plastic) .....(Go to RC\_Q04)  
Else .....(Go to RC\_C05)

**RC\_Q04** During an average week in the last 12 months, **how much recyclable plastic waste** did you recycle? Was it ...

INTERVIEWER: Read categories to respondent.

- 1 **all?**
- 2 **most?**
- 3 **some?**
- 4 **none?**  
DK, RF

*Coverage:* Responding households who have access to a recycling program for plastic.

**RC\_C05** If RC\_Q02=3 (Glass) ..... (Go to RC\_Q05)  
Else ..... (Go to RC\_C06)

**RC\_Q05** During an average week in the last 12 months, **how much recyclable glass waste** did you recycle? Was it ...

INTERVIEWER: Read categories to respondent.

- 1 **all?**
- 2 **most?**
- 3 **some?**
- 4 **none?**  
DK, RF

*Coverage:* Responding households who have access to a recycling program for glass.

**RC\_C06** If RC\_Q02=4 (Metal) ..... (Go to RC\_Q06)  
Else ..... (Go to RC\_C07)

**RC\_Q06** During an average week in the last 12 months, **how much recyclable metal waste** did you recycle? Was it ...

INTERVIEWER: Read categories to respondent.

- 1 **all?**
- 2 **most?**
- 3 **some?**
- 4 **none?**  
DK, RF

*Coverage:* Responding households who have access to a recycling program for metal.

**RC\_C07** If RC\_Q03 in (1,2,3) or RC\_Q04 in (1,2,3) or RC\_Q05 in (1,2,3) or  
RC\_Q06 in (1,2,3) ..... (Go to RC\_Q07)  
Else ..... (Go to RC\_C08)



**RC\_Q07** Aside from being good for the environment, why ^rcfill1 recycle? Is it...

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **to reduce waste in landfill sites?**
- 2 **to reduce demand for raw materials?**
- 3 **because of bylaws or legal requirements?**
- 4 **because everyone in your area participates?**
- 5 **because you have a social responsibility?**
- 6 Other - Specify.....(Go to RC\_S07)  
DK, RF

Default: (Go to RC\_C08)

Coverage: *Responding households who participate in a recycling program.*

**RC\_S07** Aside from being good for the environment, why ^rcfill1 recycle?

INTERVIEWER: Specify.

\_\_\_\_\_(80 spaces)

Note: Disable DK, RF

**RC\_C08** If RC\_Q03 in(2,3,4,DK,RF) or RC\_Q04 in(2,3,4,DK,RF) or RC\_Q05 in(2,3,4,DK,RF) or RC\_Q06 in(2,3,4,DK,RF) .....(Go to RC\_D08)  
Else ..... (Go to RC\_Q09)

**RC\_D08** Create Recycling  
If RC\_Q03=4 and RC\_Q04=4 and RC\_Q05=4 and RC\_Q06=4 then  
Recycling="recycling"  
Else, Recycling = "recycling more"

**RC\_D08A** Create rcfill2  
If hhldnum=1, then ^rcfill3 = "you",  
Else, rcfill2 = "your household"

**RC\_Q08** What are some of the reasons that prevented ^rcfill3 from ^Recycling?

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **Too time consuming or it takes too much effort** (for example to separate materials)
- 2 **Not important or not worth it**
- 3 **Not convenient** (for example too far to bins or drop off center)
- 4 **Takes up too much space or you have no room**
- 5 **Physical limitation or a disability**
- 6 **You don't have a bin or bags**
- 7 Other – Specify.....(Go to RC\_S08)  
DK, RF

Default: (Go to RC\_Q09)

Coverage: *Responding households who have access to a recycling program and do not recycle all of the recyclable waste generated in an average week.*

**RC\_S08** What are some of the reasons that prevented ^rcfill3 from ^Recycling?

INTERVIEWER: Specify.

\_\_\_\_\_ (80 spaces)

Note: Disable DK, RF

**RC\_Q09** In the last 12 months, did ^rcfill3 return any of the following materials for refund?

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **Beer, liquor or wine bottles**
- 2 **Soft drink or beer cans**
- 3 **Other glass or plastic bottles** (for example milk jugs, plastic pop bottles)
- 4 Other – Specify.....(Go to RC\_S09)
- 5 None of the above – did not return any materials for refund  
DK, RF

Default: (Go to RC\_Q10)

Coverage: All responding households

**RC\_S09** In the last 12 months, ^rcfill3 return any of the following for refund?

INTERVIEWER: Specify.

\_\_\_\_\_ (80 spaces)

Note: Disable DK, RF

**RC\_E09** You cannot select "None of the above" with any other category. Please return and correct.

Note: Trigger hard edit if RC\_Q09=5 and any other category.

**RC\_Q10** In the last 12 months, did ^rcfill3 take any products such as unwanted or used electronics, paint, oil, antifreeze, expired medication or batteries (car or household) back to a store or supplier?

- 1 Yes
- 2 No
- DK, RF

Coverage: All responding households

**RC\_Q11** In the last 12 months, did ^rcfill3 have access to a municipal, provincial, or private household hazardous waste depot?

- 1 Yes
- 2 No ..... (Go to RC\_Q14)
- DK, RF ..... (Go to RC\_Q14)

Coverage: All responding households

**RC\_D12** Create rcfill4  
If hhldnum=1, then ^rcfill4 = "Have you",  
Else, ^rcfill4 = "Has your household"

**RC\_Q12** ^rcfill4 taken any items to a hazardous waste depot in the last 12 months?

- 1 Yes
- 2 No ..... (Go to RC\_Q14)
- DK, RF ..... (Go to RC\_Q14)

Coverage: All responding households who had access to a HHW depot or site in the last 12 months.

**RC\_Q13** Which of the following items were taken to the hazardous waste depot?

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 01 **Oils or anti-freeze**
- 02 **Paints and solvents**
- 03 **Car batteries**
- 04 **All purpose batteries**
- 05 **Expired or unused medication**
- 06 **Electronics**
- 07 **Tires**
- 08 Other- Specify.....(Go to RC\_S13)
- DK, RF

Default: (Go to RC\_Q14)

Coverage: Responding households who used a HHW depot in the last 12 months.

**RC\_S13** Which of the following items were taken to the hazardous waste depot?

INTERVIEWER: Specify.  
\_\_\_\_\_ (80 spaces)

Note: Disable DK, RF

**RC\_Q14** ^rcfill4 participated in any of the following alternative recycling activities in the last 12 months?

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **Donated or gave away used clothing**
- 2 **Donated or gave away used furniture or appliances**
- 3 **Donated or gave away used electronic's such as TV's or computers**
- 4 None of the above
- DK, RF

Coverage: *All responding households*

**RC\_E14** **You cannot select “None of the above” with any other category. Please return and correct.**

Note: *Trigger hard edit if RC\_Q14=4 and any other category.*

**RC\_END** End of Section

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**Section: Composting (CP)**

**CP\_BEG** Beginning of Section

**CP\_IMP** Import from Demographics: hhldnum (1..20)  
Import from WA: WA\_Q16 in (1, 2, DK, RF); WA\_Q23 in (1, 2, DK, RF).

**CP\_R01** **Now for some questions on composting.**

INTERVIEWER: Press <1> to continue.

\_\_\_\_(1 Space) [Min: 1 Max: 1]

**CP\_D01** Create cfill1  
If hhldnum=1, then ^cfill1 = "you",  
Else, ^cfill1 = "your household"

**CP\_Q01** **During the last 12 months, did ^cfill1 separate any kitchen waste from the rest of your garbage and put it out for compost collection, take it to a depot or put it in a compost bin or pile?**

- 1 Yes
- 2 No .....(Go to CP\_C03)  
DK, RF .....(Go to CP\_C03)

Coverage: All responding households

**CP\_Q02** **How was your kitchen waste composted? Was it...**

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **collected by your city or private company?**
- 2 **taken to a depot?**
- 3 **put in a compost bin, pile or garden?**
- 4 other  
DK, RF

Coverage: Responding households that compost any kitchen waste

**CP\_C03** If WA\_Q16 or WA\_Q23= 1 .....(Go to CP\_Q03)  
Else.....(Go to CP\_C05)

**CP\_Q03** In the last 12 months, did <sup>^cpfill1</sup> separate any yard waste such as leaves, plants, or grass clippings from the rest of your garbage and put it out for collection, take it to a depot or put it in a compost bin or pile?

- 1 Yes
- 2 No .....(Go to CP\_C05)
- DK, RF .....(Go to CP\_C05)

Coverage: Responding households who had a lawn or garden last summer and do not live in an apartment

**CP\_Q04** How was your yard waste composted? Was it...

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 collected by your city or private company?
- 2 taken to a depot?
- 3 put in a compost bin, pile or garden?
- 4 other
- DK, RF

Coverage: Responding households that separate or collect any yard waste

**CP\_C05** If CP\_Q01 = 2 or CP\_Q03 = 2 .....(Go to CP\_D05)  
Else.....(Go to CP\_End)

**CP\_D05** Create KitchYard  
If CP\_Q01 in (2, DK, RF) and CP\_Q03 =1 then KitchYard = "kitchen",  
Else if CP\_Q01=1 and CP\_Q03 in (2, DK, RF), then KitchYard="yard"  
Else if CP\_Q01 in (2, DK, RF) and CP\_Q03 in (2, DK, RF) then KitchYard  
="kitchen and yard"  
Else then KitchYard = "kitchen"

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**CP\_Q05**      **What are some of the reasons that prevented ^cpfill1 from composting ^KitchYard waste? Was it...**

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 01      **too time consuming?** (for example to separate waste)
- 02      **not important?**
- 03      **because it takes up too much space?**
- 04      **because of a physical limitation or disability?**
- 05      **you do not have a compost bin?**
- 06      **not having access to a municipal composting program?**
- 07      **being worried that wildlife or vermin may be attracted?**
- 08      **because you are unsure of what materials can be composted?**
- 09      **materials are not collected often enough?**
- 10      other
- DK, RF

*Coverage:*      *Respondents in households that did not compost kitchen and/or yard waste.*

**CP\_END**      End of Section

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**Section: Indoor Environment (IE)**

**IE\_BEG** Beginning of Section

**IE\_IMP** Import DWELCODE in (1..10)  
From Demographics: hhldnum (1..20)  
From EH: EH\_Q01 in (1-7, DK,RF)

**IE\_R01** **The following questions are about indoor air quality and products that are used around your dwelling.**

INTERVIEWER: Press <1> to continue.

\_\_\_ (1 Space) [Min: 1 Max: 1]

Coverage: *All respondents*

**IE\_Q01** **In the past 12 months, which of the following products were used to clean your windows?**

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **Commercial chemical cleaner**, for example Windex, Mr. Clean, Bon Ami
- 2 **Other cleaners**, for example green or biodegradable cleaner or vinegar
- 3 Did not use cleaners, did not clean or did not have windows in past 12 months  
DK, RF

Coverage: *All respondents*

**IE\_E01** **You cannot select "Did not use cleaners, did not clean or did not have windows in past 12 months" with any other category. Please return and correct.**

Note: Trigger hard edit if IE\_Q01=3 and any other category.

**IE\_D02** Create iefill1  
If hhldnum=1, then iefill1 = "have you",  
Else iefill1 = "has anyone"

**IE\_Q02** **In the last 12 months, ^iefill1 used any of the following chemical products within your dwelling?**

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **Stove cleaners and degreasers**
- 2 **Solvents** (for example paint thinner)
- 3 **Indoor pesticides or insecticides** (for example Raid, Ant-B-Gone)
- 4 None of the above  
DK, RF



Coverage: All respondents

**IE\_E02** You cannot select "None of the above" with any other category. Please return and correct.

Note: Trigger hard edit if IE\_Q02=4 and any other category.

**IE\_C03** If DWELCODE=5 (Low Rise Apt.) or 6 (High Rise Apt.) ..... (Go to IE\_C05)  
Else..... (Go to IE\_Q03)

**IE\_Q03** Are you aware of radon gas and its impacts on human health?

- 1 Yes
- 2 No ..... (Go to IE\_C05)
- DK, RF ..... (Go to IE\_C05)

Coverage: All respondents who do not live in apartments.

**IE\_Q04** Has your dwelling been tested to assess the level of radon gas?

- 1 Yes
- 2 No
- DK, RF

Coverage: All respondents who do not live in apartments and have knowledge of radon gas.

**IE\_C05** If EH\_Q01=1 (furnace with forced air)..... (Go to IE\_Q05)  
Else..... (Go to IE\_END)

**IE\_Q05** How often has the filter in your furnace been changed or cleaned during the last 12 months?

INTERVIEWER: Read categories to respondent.

- 1 **Every 3 months or more frequently**
- 2 **Every 6 months**
- 3 **Once in the past year**
- 4 Did not change or clean filter in the past year
- DK, RF

Coverage: All respondents who have a forced air furnace

**IE\_END** End of Section

**Section: Recreational Vehicles and Gasoline Powered Equipment (GP)**

**GP\_BEG** Beginning of section

**GP\_IMP** Import from Entry: DWELCODE in (01..10, DK, RF)  
From Demographics: hhldnum in (1..20)  
From WA: WA\_Q16 in (1, 2, DK, RF)

**GP\_R01** **Now for some questions on recreational vehicles and gasoline powered equipment.**

INTERVIEWER: Press <1> to continue.

\_\_\_\_(1 Space) (Min: 1 Max: 1)

**GP\_D01** Create gpfll1  
If hhldnum=1, then gpfll1 = "Have you",  
Else, gpfll1 = "Has anyone in your household"

**GP\_Q01** **^gpfll1 owned any of the following recreational vehicles in the last 12 months?**

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **All-terrain vehicle (ATV)**
- 2 **Snowmobile**
- 3 **Dirt bike or motocross motorcycle**
- 4 **Personal watercraft (for example a sea-doo or jet-ski)**
- 5 **Motorboat (with an inboard or outboard motor)**
- 6 Household does not own any recreational vehicles ..... (Go to GP\_C04)  
DK, RF ..... (Go to GP\_C04)

Coverage: *All respondents*

**GP\_E01** **You cannot select "Household does not own any recreational vehicles" with any other category. Please return and correct.**

Note: Trigger hard edit if GP\_Q01=6 and any other category

**GP\_D02** Create ThisThese  
If GP\_Q01 is only one response (1..5), then ThisThese= "this recreational vehicle";  
Else ThisThese = "these recreational vehicles".

**GP\_Q02** **In the last 12 months, approximately how much fuel was used in operating ^ThisThese?**

INTERVIEWER: Obtain respondent's best estimate. If more than one vehicle, include sum of all fuel used. If respondent did not use recreational vehicles in the past year, please enter a zero.

\_\_\_\_ (4 spaces) (Min: 0 Max: 1500)

DK, RF ..... (Go to GP\_Q03)

Coverage: All respondents who owned recreational vehicles in the last 12 months

**GP\_C02** If GP\_Q02 = 0..... (Go to GP\_C04)  
Else ..... (Go to GP\_N02)

**GP\_N02** If necessary ask: (Is this in litres or in gallons?)

- 1 Litres
- 2 Gallons

Default: (Go to GP\_C04)

Note: Disable DK, RF

Coverage: All respondents who owned recreational vehicles in the last 12 months

**GP\_Q03** Was it...

INTERVIEWER: Read categories to respondent.

- 1 less than 50 litres? (less than 11 gallons)
- 2 50 to 100 litres? (11 to 22 gallons)
- 3 101 to 500 litres? (23 to 110 gallons)
- 4 more than 500 litres? (more than 110 gallons)
- 5 None – vehicles were not used in last 12 months  
DK, RF

Coverage: All respondents who owned recreational vehicles in the last 12 months

**GP\_C04** If DWELCODE=5 or 6 (Low Rise or High Rise Apt.)..... (Go to GP\_END)  
Else if WA\_Q16= 2, DK, RF (No lawn)..... (Go to GP\_Q10)  
Else ..... (Go to GP\_D04)

**GP\_D04** Create gfill2  
If hhldnum=1, then gfill2 = "you",  
Else, gfill2 = "anyone in your household"

**GP\_Q04** In the past 12 months did ^gfill2 use a lawnmower?

- 1 Yes
- 2 No.....(Go to GP\_D06)  
DK, RF.....(Go to GP\_D06)

Coverage: Responding households not in an apartment who had a lawn

**GP\_Q05** What type of engine did your lawnmower have?

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 Gas
- 2 Electric
- 3 Manual (push reel)  
DK, RF

Coverage: Responding households not in an apartment who had a lawn and used a lawnmower in the past 12 months

**GP\_D06** Create gfill0  
If hhldnum=1, then gfill0 = "you",  
Else, gfill0 = "anyone"

**GP\_Q06** In the past 12 months **did ^gfill0 use a grass trimmer?**

- 1 Yes
- 2 No ..... (Go to GP\_Q08)
- DK, RF ..... (Go to GP\_Q08)

Coverage: *Responding households not in an apartment who had a lawn*

**GP\_Q07** **What type of engine did your grass trimmer have?**

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **Gas**
- 2 **Electric**
- DK, RF

Coverage: *Responding households not in an apartment who had a lawn and used a grass trimmer in the past 12 months*

**GP\_Q08** In the past 12 months **did ^gfill0 use a leaf blower?**

- 1 Yes
- 2 No ..... (Go to GP\_Q10)
- DK, RF ..... (Go to GP\_Q10)

Coverage: *Responding households not in an apartment who had a lawn*

**GP\_Q09** **What type of engine did your leaf blower have?**

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1 **Gas**
- 2 **Electric**
- DK, RF

Coverage: *Responding households not in an apartment who had a lawn and used a leaf blower in the past 12 months*

**GP\_Q10** In the past 12 months **did ^gfill0 use a chain saw?**

- 1 Yes
- 2 No ..... (Go to GP\_Q12)
- DK, RF ..... (Go to GP\_Q12)

Coverage: *Responding households not in an apartment*

**GP\_Q11** **What type of engine did your chain saw have?**

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1       **Gas**
- 2       **Electric**
- DK, RF

Coverage:       *Responding households not in an apartment who used a chain saw the past 12 months*

**GP\_Q12**       In the past 12 months **did ^gpfill0 use a snow blower?**

- 1       Yes
- 2       No .....(Go to GP\_END)
- DK, RF ..... (Go to GP\_END)

Coverage:       *Responding households not in an apartment*

**GP\_Q13**       **What type of engine did your snow blower have?**

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 1       **Gas**
- 2       **Electric**
- DK, RF

Coverage:       *Responding households not in an apartment who used a snow blower in the past 12 months*

**GP\_END**       End of Section

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**Section: Transportation Decisions (TD)**

**TD\_BEG** Beginning of Section

**TD\_IMP** Import from Demographics: Hhld16+ in (1..20)  
From Demographics: Hhldnum in (1..20)

**TD\_R01** **The next questions are about motor vehicles.**

INTERVIEWER: Press <1> to continue.

\_\_\_\_(1 Space) [Min: 1 Max: 1]

**TD\_D01** Create tdfill1  
If Hhld16+=1, then ^tdfill1 = "you",  
Else, ^tdfill1 = "any household members 16 years of age or older"

**TD\_Q01** **During the last 12 months, did ^tdfill1 own or lease a motor vehicle for personal use? Include cars, pick-up trucks, minivans, vans, SUV's and street legal motorcycles. Exclude vehicles used solely for business purposes.**

- 1 Yes
- 2 No .....(Go to TD\_R04)
- DK, RF .....(Go to TD\_R04)

Coverage: *All respondents*

**TD\_Q02** **How many motor vehicles were owned or leased for personal use in the last 12 months?**

\_\_\_\_(2 spaces) (Min: 1 Max: 20)  
DK, RF .....(Go to TD\_R04)

Coverage: *All households who owned or leased a motor vehicle in the past 12 months.*

**TD\_B03** **Call Motor Vehicle (MV) block**

Note: Call this block for the number of vehicles reported in TD\_Q02 to a maximum of 4.

Coverage: *All respondents who own a motor vehicle*

**TD\_R04** **Now for some questions on transportation to work.**

INTERVIEWER: Press <1> to continue.

\_\_\_\_(1 Space) [Min: 1 Max: 1]

**TD\_B04** **Call Transportation to Work (TW) block**

Note: Call this block for each member in the Household roster age 16 and over

**TD\_C05** If any instance of TW\_Q03=04 or TW\_Q05=04 (Go to TD\_Q06)  
 Else (Go to TD\_D05)

**TD\_D05** Create tdfill2  
 If Hhld16+ = 1 then ^ tdfill2 = "Do you"  
 Else, ^ tdfill2 = "Does your household"

**TD\_Q05** ^ tdfill2 have access to a public transit system during the work week, within 5 minutes of your home, either by foot or by car?

1 Yes  
 2 No  
 DK, RF

Coverage: All respondents

**TD\_D06** Create tdfill3  
 If Hhld16+ = 1 then ^ tdfill3 = "have you"  
 Else ^ tdfill3 = "has anyone in your household"

**TD\_Q06** Other than for travel to work, ^ tdfill3 regularly used public transit in the last 12 months? By regular use we mean using public transit 1 to 3 times per week.

1 Yes..... (Go to TD\_C08)  
 2 No  
 DK, RF ..... (Go to TD\_D08)

Coverage: All respondents who have access to public transit.

**TD\_C07** If any TW\_Q03 or Q05 = 04 (Go to TD\_C08)  
 Else (Go to TD\_Q07)

**TD\_D07** Create tdfill4  
 If Hhld16+ = 1 then ^ tdfill4 = "you"  
 Else ^ tdfill4 = "your household"

**TD\_Q07** What were some of the reasons ^tdfill4 did not use the public transportation system in the past 12 months? Was it because it was...

INTERVIEWER: Read categories to respondent. Mark all that apply.

01 too expensive?  
 02 too slow?  
 03 you live within walking or cycling distance of most destinations?  
 04 you have access to a car?  
 05 scheduling problems?  
 06 the service is too infrequent?  
 07 Other – Specify ..... (Go to TD\_S07)

Default: (Go to TD\_C08)

Coverage: All households who had public transit available nearby and did not make use of it for commuting to paid employment or regular personal use

**TD\_S07** What were some of the reasons ^tdfill4 did not use the public transportation system in the past 12 months?

INTERVIEWER: Specify.

\_\_\_\_\_ (80 spaces)

Note: Disable DK, RF

**TD\_C08** If TD\_Q01=1 ..... (Go to TD\_Q08)  
Else ..... (Go to TD\_END)

**TD\_Q08 Are ethanol blended gasolines or bio-diesel fuels available in your area?**

- 1 Yes
- 2 No ..... (Go to TD\_END)
- DK, RF ..... (Go to TD\_END)

Coverage: All households who owned or leased a motor vehicle in the past 12 months.

**TD\_Q09 In the past 12 months, how often did ^trfill purchase these fuels?**

INTERVIEWER: Read categories to respondent.

- 1 **Always**
- 2 **Often**
- 3 **Sometimes**
- 4 **Rarely**
- 5 **Never**
- DK, RF

Coverage: All households who owned or leased a motor vehicle in the past 12 months and had access to fuels with renewable content in their area.

**TD\_END** End of Section

FOR INFORMATION ONLY



**Section: Motor Vehicle (MV)**

**MV\_BEG** Beginning of section

**MV\_IMP** Import from TD: TD\_Q02 in (1..20)

**MV\_D01** Create Vehicle  
If TD\_Q02=1, then ^Vehicle = "it"  
Else if 1<sup>st</sup> instance of roster, then ^Vehicle = "used most often in your household"  
Else if 2<sup>nd</sup> instance of roster, then ^Vehicle = "the second most used vehicle"  
Else if 3<sup>rd</sup> instance of roster, then ^Vehicle = "the third most used vehicle"  
Else if 4<sup>th</sup> instance of roster, then ^Vehicle = "the fourth most used vehicle".

**MV\_Q01** **What type of vehicle is ^Vehicle?**

INTERVIEWER: Read categories to respondents.

- 1 **Car**
- 2 **Minivan or van**
- 3 **Sport utility vehicle (SUV)**
- 4 **Pick-up truck**
- 5 **Motorcycle**
- 6 Other – Specify ..... (Go to MV\_S01)  
DK, RF

Default: (Go to MV\_Q02)

Coverage: *All respondents who own a motor vehicle in the last 12 months*

**MV\_S01** What type of vehicle is ^Vehicle?

INTERVIEWER: Specify.

\_\_\_\_\_ (80 spaces)

Note: Disable DK, RF

**MV\_Q02** **What is the model year?**

INTERVIEWER: Provide best estimate.

\_\_\_\_\_ (4 spaces) (Min: 1900 Max: 2008)  
DK, RF

Coverage: *All respondents who own a motor vehicle in the last 12 months*

**MV\_Q03**      **What type of engine does this vehicle have?**

INTERVIEWER: Read categories to respondents.

- 1      **4 cylinder**
- 2      **6 cylinder**
- 3      **8 cylinder**
- 4      **Hybrid** (gasoline/diesel and electric motor)
- 5      Other – Specify ..... (Go to MV\_S03)  
DK, RF

Default:      (Go to MV\_Q04)

Coverage:      *All respondents who own a motor vehicle in the last 12 months*

**MV\_S03**      **What type of engine does this vehicle have?**

INTERVIEWER: Specify.

\_\_\_\_\_ (80 spaces)

Note:      Disable DK, RF

**MV\_Q04**      **What type of fuel does this vehicle use?**

INTERVIEWER: Read categories to respondents.

- 1      **Gasoline**
- 2      **Diesel**
- 3      **Natural gas**
- 4      **Propane**
- 5      Other – specify ..... (Go to MV\_S04)  
DK, RF

Default:      (Go to MV\_Q05)

Coverage:      *All respondents who own a motor vehicle in the last 12 months*

**MV\_S04**      **What type of fuel does this vehicle use?**

INTERVIEWER: Specify.

\_\_\_\_\_ (80 spaces)

Default:      (Go to MV\_Q05)

Note:      Disable DK, RF

**MV\_Q05**      **How many kilometres or miles was this vehicle driven in the past 12 months? Exclude the use of this vehicle in the conduct of a business or self-employment.**

INTERVIEWER: Provide best estimate

\_\_\_\_\_ (6 spaces)      (Min: 0 Max:500000)  
DK, RF ..... (Go to MV\_Q06)

Coverage:      *All respondents who owned recreational vehicles in the last 12 months*

**MV\_C05**      If MV\_Q05 =0 ..... (Go to MV\_END)  
Else..... (Go to MV\_N05)

**MV\_N05**      INTERVIEWER: If necessary ask: **(Is this in kilometres or miles?)**

- 1      Kilometres
- 2      Miles

Default:      (Go to MV\_END)

Note:      Disable DK, RF

**MV\_E05**      An unusually high amount has been entered. Please confirm.

Note:      Trigger soft edit if MV\_Q05>100,000 and MV\_N05 = 1 or if MV\_Q05>60,000 and MV\_N05 = 2.

**MV\_Q06**      **Was it...**

INTERVIEWER: Read categories to respondent.

- 1      **none?** (vehicle was not used in last 12 months)
  - 2      **less than 500 kilometres?** (approximately 3106 miles or less)
  - 3      **5000 to less than 10000 kilometres?** (approximately 3107 to 6213 miles)
  - 4      **10000 to less than 20000 kilometres?** (approximately 6214 to 12427 miles)
  - 5      **20000 to less than 40000 kilometres?** (approximately 12428 to 24854 miles)
  - 6      **40000 kilometres or more?** (24855 miles or more)
- DK, RF

Coverage:      *All respondents who owned a motor vehicle in the last 12 months*

**MV\_END**      End of Section

**Section: Transportation to work (TW)**

- TW\_BEG** Beginning of section
- TW\_IMP** Import from Demographics: FName, LName, age, hhld16+, hhldnum
- TW\_D01A** Create Derived Variable ^Hhld16. ^Hhld16= total number of household members whose ^Age>=16. Count all household members whose ^age>or = 16.
- TW\_D01B** Create ^Hhld16R derived variable: Create a new roster of household members that includes only the household members who are 16+. Import the names of all these household members and assign numbers.
- TW\_D01C** Create ^Hhld16N, ^Hhld16N=name of each household member, only use once, import in order of ^Hhld16R.
- TW\_D01D** Create twfill1  
If name = name of person being interview then  
twfill1 = 'were you...'  
else twfill1 = 'was ^Hhld16N...'
- TW\_Q01** **At any point in the last 12 months, ^twfill1**
- INTERVIEWER: Read categories to respondent. Mark all that apply.
- 1 **self-employed?**  
2 **an employee of a company?**  
3 **temporarily laid-off.**  
4 **not working?**  
DK, RF
- TW\_C02** If TW\_Q01 = 1 or 2 ..... (Go to TW\_Q02)  
Else ..... (Go to TW\_END)
- TW\_D02** Create twfill2  
If name = name of person being interview then  
twfill2 = 'you'  
else twfill2 = '^Hhld16N'
- TW\_Q02** **Did ^twfill2 work outside the home?**
- 1 Yes  
2 No ..... (Go to TW\_END)  
DK, RF ..... (Go to TW\_END)
- TW\_D03** Create twfill3  
If name = name of person being interview then  
twfill3 = 'your'  
else twfill3 = '^Hhld16N's'

**TW\_Q03** During the last 12 months, what was ^twfill3 principal method of travel to work during the colder months?

INTERVIEWER: Read categories to respondents.

- 01 **Motor vehicle as a driver, alone in the vehicle**
- 02 **Motor vehicle as a driver with a passenger**
- 03 **Motor vehicle as a passenger**
- 04 **Public Transit**
- 05 **Bicycle**
- 06 **Walking or running**
- 07 **Motorcycle**
- 08 Did not work outside the home in colder months.....(Go to TW\_Q05)
- 09 Other  
DK, RF

**TW\_E03** This is not one of the possible answers. Please return and correct.

Note: Trigger hard edit if TW\_Q03 = 1 OR 2 and TD\_Q01 <> 1

**TW\_Q04** Was ^twfill3 principal method of travel to work different during the warmer months?

- 1 Yes
- 2 No ..... (Go to TW\_END)  
DK, RF ..... (Go to TW\_END)

**TW\_Q05** What was ^twfill3 principal method of travel to work during the warmer months?

INTERVIEWER: Read categories to respondents.

- 01 **Motor vehicle as a driver, alone in the vehicle**
- 02 **Motor vehicle as a driver with a passenger**
- 03 **Motor vehicle as a passenger**
- 04 **Public Transit**
- 05 **Bicycle**
- 06 **Walking or running**
- 07 **Motorcycle**
- 08 Did not work outside the home in warmer months
- 09 Other  
DK, RF

**TW\_E05** This is not one of the possible answers. Please return and correct.

Note: Trigger hard edit if TW\_Q05 = 1 OR 2 and TD\_Q01 <> 1

**TW\_E05A** You cannot select the same method of travel to work during the warmer months, as you did for the method of travel to work during the colder months. Please return and correct.

Note: Trigger hard edit if TW\_Q03 ne 8 or 9 and (TW\_Q03 = TW\_Q05).

**TW\_E05B** You stated in a previous question that you worked outside the home. Please return and correct.

Note: Trigger hard edit if TW\_Q02 =1 and both TW\_Q03 and TW\_Q05 =08

**TW\_END** End of Section

FOR INFORMATION ONLY

**Section: Air Quality (AQ)**

**AQ\_BEG** Beginning of Section

**AQ\_IMP** Import from Entry DWELCODE in (1..10)  
Import from Demographics: hhldnum in (1..20)  
From EH: EH\_Q03 in (1,2,DK,RF)  
From TD: TD\_Q01 in (1,2,DK,RF)  
From GP: GP\_Q05 in (1,2,3,DK,RF)  
GP\_Q07 in (1,2,DK,RF)  
GP\_Q11 in (1,2,DK,RF)

**AQ\_R01** **Now for some questions on air quality.**

INTERVIEWER: Press <1> to continue.

\_\_\_\_(1 Space) [Min: 1 Max: 1]

**AQ\_D01** Create aqfill1  
If hhldnum=1, then aqfill1 = "were you",  
Else, aqfill1 = "was anyone in your household"

**AQ\_Q01** **In the last 12 months, ^aqfill1 aware of any advisories issued in your area for smog, smoke or poor air quality?**

- 1 Yes
- 2 No .....(Go to AQ\_C04)  
DK, RF .....(Go to AQ\_C04)

Coverage: *All responding households*

**AQ\_D02** Create aqfill2  
If hhldnum=1, then aqfill2 = "Did you change your",  
Else, aqfill2 = "Did anyone in your household change their"

**AQ\_Q02** **^aqfill2 behaviours or activities because of these advisories?**

- 1 Yes
- 2 No ..... (Go to AQ\_C04)  
DK, RF ..... (Go to AQ\_C04)

Coverage: *Responding households who were aware of any advisories such as smog, smoke or poor air quality issued in their area.*

**AQ\_Q03** **What behaviours or activities were changed?**

INTERVIEWER: Read categories to respondent. Mark all that apply.

- 01 **Did not exercise outside**
- 02 **Used public transit or carpoled**
- 03 **Turned the air conditioning on or up**
- 04 **Stayed inside**
- 05 **Did not use gas powered outdoor equipment**

06 **Used car** (for example: as an alternative to public transit or running/walking/cycling)  
07 Other – Specify .....(Go to AQ\_S03)  
DK, RF

Default: (Go to AQ\_C04)

Note: Display category 3 if EH\_Q03=1. Display category 5 if GP\_Q05=1 or if GP\_Q07=1 or if GP\_Q11=1. Display category 6 if TD\_Q01=1.

Coverage: *Responding households who were aware of any advisories such as smog, smoke or poor air quality issued in their area and made some form of change to their behaviour*

**AQ\_S03** What behaviours or activities were changed?

INTERVIEWER: Specify

\_\_\_\_\_ (80 spaces)

Note: Disable DK, RF

**AQ\_E03** **You cannot enter a response that is not included in the displayed categories. Please return and correct.**

Note: If AQ\_Q03=3 then trigger hard edit if EH\_Q03 NE 1. If AQ\_Q03=5 then trigger hard edit if (GP\_Q05/Q07/Q11) NE 1. If AQ\_Q03=6 then trigger hard edit if TD\_Q01 NE 1

**AQ\_C04** If DWELCODE=5 (Low Rise Apt.) or 6 (High Rise Apt.) .....(Go to AQ\_END)  
Else.....(Go to AQ\_D04)

**AQ\_D04** Create aqfill3  
If hhldnum=1, then aqfill3 = "did you",  
Else, aqfill3 = "did anyone"

**AQ\_Q04** **In the last 12 months, ^aqfill3 burn yard waste on your property?**

INTERVIEWER: Please include leaves, branches, grass clippings, etc.

1 Yes  
2 No  
DK, RF

Coverage: *Respondents who do not live in an apartment*



**AQ\_Q05** In the last 12 months, **^aqfill3 burn household waste on your property?**

INTERVIEWER: Please include all household items that can be burned, excluding only yard waste and materials generated from the operation of a business.

- 1 Yes
- 2 No  
DK, RF

Coverage: *Respondents who do not live in an apartment*

**AQ\_END** End of Section

FOR INFORMATION ONLY

**Section: Purchasing Decisions (PD)**

**PD\_BEG** Beginning of Section

**PD\_IMP** Import from TD: TD\_Q01 in (1, 2, DK, RF)  
From Demographics: hhldnum in (1..20)

**PD\_R01** **The next few questions are about purchasing decisions.**

INTERVIEWER: Press <1> to continue.

\_\_\_\_(1 Space) [Min: 1 Max: 1]

**PD\_D01** Create pfill1  
If hhldnum=1, then pfill1 = "Did you"  
Else, pfill1 = "Did your household"

**PD\_Q01** **^pfill1 purchase any major appliances in the last 5 years? This includes stoves, refrigerators, dishwashers, freezers, washers or dryers.**

- 1 Yes
- 2 No .....(Go to PD\_Q03)  
DK, RF .....(Go to PD\_Q03)

Coverage: *All respondents*

**PD\_D02** Create pfill2  
If hhldnum=1, then pfill2 = "you"  
Else, pfill2 = "your household"

**PD\_Q02** **Which two of the following factors were the most important the last time ^pfill2 purchased a major appliance? Was it...**

INTERVIEWER: Read categories to respondent. Limit responses to two categories.

- 1 **energy or water consumption?**
- 2 **reliability?**
- 3 **price?**
- 4 **features?**
- 5 other  
DK, RF

Coverage: *All respondents who purchased any major appliance in the last five years.*

**PD\_Q03** **In the last 12 months, how often did ^pfill2:**

**...purchase brand name items that you perceived to be better quality, even though they may be more expensive than other similar products?**

INTERVIEWER: Read categories to respondent.

- 1 **Always**
  - 2 **Often**
  - 3 **Sometimes**
  - 4 **Rarely**
  - 5 **Never**
- DK, RF

Coverage: *All respondents*

**PD\_Q04** In the last 12 months, how often did **^pdfill2:**  
**...purchase organic foods while shopping for groceries?**

INTERVIEWER: Read categories to respondent.

- 1 **Always**
  - 2 **Often**
  - 3 **Sometimes**
  - 4 **Rarely**
  - 5 **Never**
- DK, RF

Coverage: *All respondents*

**PD\_Q05** In the last 12 months, how often did **^pdfill2:**  
**...purchase environmentally friendly or “green” cleaning products?**

INTERVIEWER: Read categories to respondent.

- 1 **Always**
  - 2 **Often**
  - 3 **Sometimes**
  - 4 **Rarely**
  - 5 **Never**
- DK, RF

Coverage: *All respondents*

**PD\_Q06** In the last 12 months, how often did **^pdfill2:**  
**...use a reusable or recycled bag or container, to carry out your groceries?**

INTERVIEWER: Read categories to respondent.

- 1 **Always**
  - 2 **Often**
  - 3 **Sometimes**
  - 4 **Rarely**
  - 5 **Never**
- DK, RF

Coverage: *All respondents*

**PD\_C07** If TD\_Q01=1(lease or own vehicle for personal use)..... (Go to PD\_Q07)  
 Else.....(Go to PD\_END)

**PD\_Q07**      **When ^pdfill2 last purchased or leased a motor vehicle, how important of a factor was fuel efficiency in the decision?**

INTERVIEWER: Read categories to respondent.

- 1      **Very important**
  - 2      **Somewhat important**
  - 3      **Somewhat unimportant**
  - 4      **Very unimportant**
- DK, RF

Coverage:      *All respondents who lease or own a motor vehicle*

**PD\_END**      End of Section

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**Section:** Exit (part of standard exit module)

**HD\_BEG** Beginning of Section

**HD\_IMO** Import from DC: DC\_Q02 in (1, 2, DK, RF)  
DC\_Q03 in (1, 2, DK, RF)  
DC\_Q04 in (1, 2, DK, RF)  
From Demographics: hhldnum in (1..20)

**HD\_R01** **The following question deals with income. Household income is needed in order to study the relationship between economic situation and the level of participation in environmental practices by Canadian households.**

INTERVIEWER: Press <1> to continue.

\_\_\_ (1 Space) [Min: 1 Max: 1]

**HD\_Q01** **What is your best estimate of the total household income received by all household members from all sources, before taxes and deductions, during the last 12 months?**

Income can come from various sources such as from work, investments, pensions or government. Examples include Employment Insurance, Social Assistance, Child Tax Benefit and other income such as child support, alimony and rental income.

INTERVIEWER: If necessary ask: **(Please provide your best estimate to the nearest \$5,000.)**

\_\_\_\_\_ (7 spaces) [Min: -999995 Max: 9999995]  
DK, RF.....(Go to HD\_Q02)

Default: (Go to HD\_C03).

Coverage: *Respondents in households that had an income in 2006/07/08*

**HD\_Q02** What is your best estimate of the total household income received by all household members from all sources, before taxes and deductions, during the last 12 months? **Was it...**

INTERVIEWER: Read categories to respondent.

- 01 **less than \$20,000?** (includes income loss)
  - 02 **\$20,000 to less than \$40,000?**
  - 03 **\$40,000 to less than \$60,000?**
  - 04 **\$60,000 to less than \$80,000?**
  - 05 **\$80,000 to less than \$100,000?**
  - 06 **\$100,000 to less than \$150,000?**
  - 07 **\$150,000 and over?**
- DK, RF

**HD\_C03** If DC\_Q04 = 1.....(Go to HD\_D03)  
Else.....(Go to HD\_End)

**HD\_D03** Create hdfill1  
If DC\_Q02=1, DK, RF and DC\_Q03=1, then dcfill2 = "the condominium corporation",  
Else, dcfill2 = "the landlord or property manager",

**HD\_R03** **You have identified that the ^hdfill1 is responsible for paying the bills for fuel and/or electricity. In order to complete the information needed to assess how energy is used in your dwelling; Statistics Canada is requesting your authorization to contact this authority. No other information other than your building address will be provided.**

INTERVIEWER: Press <1> to continue.

\_\_\_\_(1 Space) [Min: 1 Max: 1]

**HD\_Q04** **What is the name of your ^hdfill1?**

INTERVIEWER: Enter the entire name, condominium corporation name or property management company name.

\_\_\_\_(Max. 50 Spaces)

DK,RF

**HD\_B05** **What is the address for [name of contact]?**

Call the Address block.

**HD\_B06** **What is the telephone number for [name of contact], including the area code?**

Call the North American Telephone block.

**HD\_END** End of Section

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