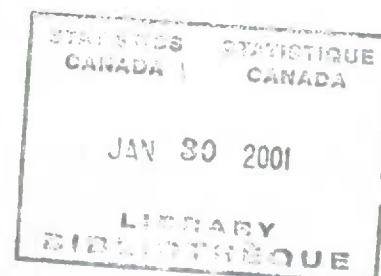


NOT FOR LOAN  
NE S'EMPRUNTE PAS



MICRODATA USER'S GUIDE  
THE SURVEY OF HOUSEHOLD ENERGY USE

FEBRUARY 1993

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## 1. INTRODUCTION

The 1993 Survey of Household Energy Use (SHEU) was conducted by Statistics Canada on behalf of Natural Resources Canada, in cooperation with the provinces of Nova Scotia, New Brunswick, Ontario, Manitoba, Saskatchewan and with SaskPower. This manual is to help with the use of the microdata file of survey results. It is important to become familiar with the manual before releasing any estimates derived from the microdata file of the Survey of Household Energy Use.

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## 2. BACKGROUND

Until the Survey of Household Energy Use was undertaken, Statistics Canada's annual Survey of Household Facilities and Equipment was the only national data source on the stock of energy using equipment and appliances. However, it does not provide sufficient details and does not cover the characteristics of the house needed by Natural Resources Canada for the recently created National Energy Use Database. SHEU was commissioned to enrich the residential sector of this database.

The Survey was administered as a supplement to the February 1993 Labour Force Survey. The target population for this survey was composed of all the housing units in Canada (excluding Yukon and North Western Territories) occupied as primary residences, both owned and rented.

### 3. SURVEY OBJECTIVES

The objectives of the Survey of Household Energy Use were to provide detailed information about:

- . the characteristics of the house that affect air-tightness (thermal envelope),
- . space heating equipment and fuels used,
- . space cooling equipment,
- . water heating equipment,
- . stock and features of the major energy consuming appliances,
- . use of appliances, heating and cooling.

Additionally, the survey results will be supplemented by two sets of data. The first one will be a file with the average energy consumption of the appliances used by the sampled households that provided make and model information. The second one will be a file containing yearly electricity, natural gas and heating oil consumption of a subset of the surveyed households that pay for their utilities, agreed that Statistics Canada obtains this information from their suppliers, and for whom linking with utility files was successful.

#### 4. CONCEPTS AND DEFINITIONS

##### Dwelling

A structurally separate set of living premises with a private entrance from outside the building, or from a common hallway or stairway inside.

Type of Dwelling:

Single detached - a house containing one dwelling unit and not attached to any other building or structure.

Double - joined to only one other dwelling (side by side).

Row or terrace - three or more dwellings sharing common walls extending from ground to roof but with no other dwellings either above or below.

Duplex - two dwellings one above the other, not attached to any other structure.

Apartment in a building that has fewer than five storeys - dwellings in triplexes, quadruplexes or apartment buildings.

Apartment in a building that has five or more storeys.

Mobile home - a single dwelling, designed and constructed to be transported on its own chassis.

##### Household

A person or a group of persons occupying one dwelling unit is defined as a "household". The number of households is equal to the number of occupied dwellings.

##### Family Status

A family is defined as "a group of two or more persons who are living together in the same dwelling and who are related by blood, marriage (including common-law) or adoption". A person living alone or who is related to no one else in the dwelling where he/she lives is classified as an "unattached individual". The head of a family is determined by the respondent's perception of headship and as such is solely a statistical device which has no economic connotation.

## **Urban - Rural Area**

Statistics Canada defines an urban area as an area which has attained a population concentration of at least 1,000, and a population density of at least 400 per square kilometre, at the previous census. All territory lying outside urban areas is considered rural.

## **Labour Force Status**

Status of the respondent in the labour market : a member of the non-institutional population 15 years and over is designated as either **employed, unemployed or not in the labour force.**

## **Employed**

Employed persons are those who, during the reference week:

- (a) did any work<sup>1</sup> at all
- (b) had a job but were not at work due to:
  - own illness or disability
  - personal or family responsibilities
  - bad weather
  - labour dispute
  - vacation
  - other reason not specified above (excluding persons on layoff and persons whose job attachment was to a job start at a definite date in the future).

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<sup>1</sup> Work includes any work for pay or profit, that is, paid work in the context of an employer-employee relationship, or self-employment. It also includes unpaid family work where unpaid family work is defined as unpaid work which contributed directly to the operation of a farm, business or professional practice owned or operated by a related member of the household. Such activities may include keeping books, selling products, waiting on tables, and so on. Tasks such as housework or maintenance of the home are not considered unpaid family work.

## **Unemployed**

Unemployed persons are those who, during the reference week:

- (a) were without work, had actively looked for work in the past four weeks (ending with reference week), and were available for work<sup>2</sup>;
- (b) had not actively looked for work in the past four weeks but had been on layoff<sup>3</sup> and were available for work;
- (c) had not actively looked for work in the past four weeks but had a new job to start in four weeks or less from the reference week, and were available for work.

## **Not in the Labour Force**

Those persons in the civilian non-institutional population 15 years of age and over who, during the reference week, were neither employed nor unemployed.

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<sup>2</sup> Persons in this group meeting the following criteria are regarded as available: (i) were full-time students seeking part-time work who also met condition (ii) below. (Full-time students looking for full-time work are classified as not available for work in the reference week.)

(ii) reported that there was no reason why they could not take a job in reference week, or if they could not take a job it was because of "own illness or disability", "personal or family responsibilities", or "already had a job".

<sup>3</sup> Persons are classified as being on layoff only when they expect to return to the job from which they were laid off.



## 5. SURVEY METHODOLOGY

The Survey of Household Energy Use was administered in February 1993 to a sub-sample of the dwellings in the Labour Force Survey (LFS) sample, and therefore its sample design is closely tied to that of the LFS. The LFS design is briefly described in Sections 5.1 to 5.4<sup>4</sup>. Section 5.5 describes how the Survey of Household Energy Use departed from the basic LFS design in February 1993.

### 5.1 Population Coverage

The LFS is a monthly household survey whose sample of individuals is representative of the civilian, non-institutionalized population 15 years of age or older in Canada's ten provinces. Specifically excluded from the survey's coverage are residents of the Yukon and Northwest Territories, persons living on Indian Reserves, full-time members of the Canadian Armed Forces and inmates of institutions. These groups together represent an exclusion of approximately 2% of the population aged 15 or over.

### 5.2 Sample Design

The LFS sample is based upon a stratified, multi-stage design employing probability sampling at all stages of the design. The design principles are the same for each province. A diagram summarizing the design stages appears within.

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<sup>4</sup> A detailed description of the LFS design is available in the Statistics Canada publication entitled **Methodology of the Canadian Labour Force Survey, 1984-1990** (catalogue #71-526).

### **5.2.1 Primary Stratification**

Provinces are first stratified into economic regions - geographic areas of more or less homogeneous economic structure formed on the basis of federal provincial agreements. Economic regions are relatively stable over time.

These economic regions are treated as primary strata and further stratification is carried out within them (see section 5.2.3).

### **5.2.2 Types of Areas**

Economic regions are further disaggregated into 3 categories: self-representing areas (SRU's), non-self-representing areas (NSRU's) and special areas. Generally SRU's are urban areas whose population as of the 1981 Census exceeds 15,000 persons or whose unique labour force characteristics demand their establishment as SRU's. For the most part, SRU boundaries are coincident with delineations established for the Census.

All SRU's in each economic region are included in the survey and, as the name implies, each is represented by its own sample.

NSRU's are the areas lying outside the SRU's and they consist largely of small urban centres and rural areas. Each economic region contains one NSRU which is represented by its own sample.

A small proportion (approximately 1%) of the LFS population is found in institutions (for example, live-in staff of hospitals or schools or permanent residents of hotels or motels), on military bases (civilian personnel only) or in remote areas of provinces which are not readily accessible to LFS interviewers. For administrative purposes, this portion of the population is sampled separately through the special area frame. This portion of the sample is selected on a province-wide basis, without reference to the stratification used for SRU and NSRU areas.

### **5.2.3 Secondary Stratification**

SRU areas are next individually delineated into design strata, which reflect areas of similar socio-economic status as identified in the 1981 Census. The extent of the stratification (i.e. number of strata) depends upon the size of the SRU.

In economic regions in which the NSRU population constitutes a significant proportion of the economic region population, the NSRU is next delineated into separate urban and rural strata. Within each of these strata, further stratification is carried out to reflect differences on a number of labour force characteristics.



In special areas, strata are formed on a province-wide basis. The strata reflect the main types of special groups in the population which require special administrative sampling procedures. These are: military establishments, institutions and remote areas.

#### **5.2.4 Cluster Delineation and Selection**

Within each of the secondary strata found in SRU areas, a number of geographic contiguous groups of dwellings, or clusters, are formed based upon a combination of 1981 Census counts and field enumeration. These clusters generally are coincident with city blocks or block faces. The selection of a sample of clusters (generally 6 or 12 clusters) from each of these secondary strata represents the first stage of sampling in SRU areas.

Within each of the secondary strata in NSRU areas, a number of large geographic areas are delineated in such a way that each one reflects the composition of the stratum within which it is located with respect to a number of socio-economic characteristics. Two or four of these areas, known as primary sampling units (or PSU's) are selected into the sample from each secondary stratum. Within each selected PSU, a number of smaller geographically contiguous groups of dwellings, or clusters, are then formed using well-defined physical features which are recognizable both on maps and in the field.

In special areas, census enumeration areas (geographic areas covered by individual enumerators for the Census) represent the first stage of selection. Within those selected, where necessary, geographically contiguous groups of dwellings or clusters are formed and the selection of a sample of these represents the second stage of sampling.

#### **5.2.5 Dwelling Selection**

In all three types of areas (SRU, NSRU and special areas) selected clusters are first visited by enumerators in the field and a listing of all private dwellings in the cluster is prepared. From the listing a sample of 6 dwellings (on average) is then selected. This represents the final stage of sampling.

In the 17 largest SRU's, a sample of apartments in large apartment buildings is selected from a separate register based upon information supplied by CMHC. The purpose of this is to ensure better representation of apartment dwellers in the sample as well as to minimize the effect of growth in clusters, due to construction of new apartment buildings.

### **5.2.6 Person Selection**

Demographic information is obtained for all persons for whom the selected dwelling is the usual place of residence. LFS information is obtained for all civilian household members 15 years of age or older.

## **5.3 Sample Size**

The sample size of eligible persons in the LFS is determined so as to meet the statistical precision requirements for various labour force characteristics at the provincial and subprovincial level, to meet the requirements of federal, provincial and municipal governments as well as a host of other data users.

The monthly LFS sample consists of approximately 73,000 dwellings. After excluding dwellings found to be vacant, dwellings demolished or converted to non-residential uses, dwellings containing only ineligible persons, dwellings under construction, and seasonal dwellings, about 63,000 dwellings remain which are occupied by one or more eligible persons. From these dwellings, LFS information is obtained for approximately 122,000 civilians aged 15 or over.

## **5.4 Sample Rotation**

The LFS employs a panel design whereby the entire monthly sample of dwellings consists of 6 panels, or rotation groups, of approximately equal size. Each of these panels can be considered by itself to be representative of the entire LFS population. All dwellings in a rotation group remain in the LFS sample for 6 consecutive months after which time they are replaced (rotated out of the sample) by a new panel of dwellings selected from the same or similar clusters.

This rotation pattern was adopted to ensure that the sample of dwellings constantly reflects changes in the current housing stock and to minimize any problems of non-response or respondent burden that would occur if households were to remain in the sample for longer than 6 months. It also has the statistical advantage of providing a common sample base for short-term month-to-month comparisons of LFS characteristics.

Because of the rotation group feature, it is possible to readily conduct supplementary surveys using the LFS design but employing less than the full size sample.

### 5.5 Modifications to the LFS Design for the Supplement

The Survey of Household Energy Use used a subset of the six rotation groups in the February 1993 LFS sample. Depending on the province, from one half of a rotation group to two complete rotation groups were surveyed. In addition, in five provinces, one or two rotation groups that had rotated out of a previous LFS (December 1992 or January 1993) were also used. The following table summarizes the number of rotation groups used in each province.

PROVINCE	Number of rotation groups in the Feb93 LFS	Number of rotation groups in a previous LFS	Total number of rotation groups
Newfoundland	2	0	2
P.E.I.	2	2	4
Nova Scotia	2	1	3
New Brunswick	2	1	3
Quebec	1/2	0	1/2
Ontario	7/10	0	7/10
Manitoba	2	1	3
Saskatchewan	2	1	3
Alberta	1	0	1
B.C.	1	0	1

For the SHEU, the coverage of the LFS was modified to exclude all collective households such as institutions, hotels, etc.

## 5.6 Sample Size by Province for the Supplement

The following table shows the number of households which were eligible for the SHEU, i.e. they belonged to the target population and to the sampled rotations, and they had responded to the LFS.

PROVINCE	SAMPLE SIZE
Newfoundland	1013
Prince Edward Island	947
Nova Scotia	2165
New Brunswick	1878
Québec	914
Ontario	1987
Manitoba	2065
Saskatchewan	2389
Alberta	913
British Columbia	911
CANADA	15182

Disparities in provincial sample sizes are explained by the fact that several provinces chose to increase their sample size and contributed funding to cover the additional costs. These provinces are Nova Scotia, New Brunswick, Ontario, Manitoba and Saskatchewan.



## **6. DATA COLLECTION**

Data collection for the LFS is carried out each month during the week following the LFS reference week, usually the third week of the month.

### **6.1 Interviewing for the LFS**

Statistics Canada interviewers, who are part-time employees hired and trained specifically to carry out the LFS, contact each of the sampled dwellings to obtain the required labour force information. Each interviewer contacts approximately 70 dwellings per month.

Dwellings new to the sample are contacted through a personal visit. The interviewer first obtains socio-demographic information for each household member and then obtains labour force information for all eligible members. Provided there is a telephone in the dwelling and permission has been granted, subsequent interviews are conducted by telephone. As a result, approximately 85% of all dwellings are interviewed by telephone. In these subsequent monthly interviews, as they are called, the interviewer confirms the socio-demographic information collected in the first month and collects the labour force information for the current month.

In all dwellings, information about all household members is obtained from a knowledgeable household member - usually the person at home when the interviewer calls. Such 'proxy' reporting, which accounts for approximately 55% of the information collected, is used to avoid the high cost and extended time requirements that would be involved in repeat visits or calls necessary to obtain information directly from each respondent.

At the conclusion of the LFS monthly interviews, interviewers introduce the supplementary survey, if any, to be administered to some or all household members that month.

If, during the course of the six months that a dwelling normally remains in the sample, an entire household moves out and is replaced by a new household, information is obtained about the new household for the remainder of the six-month period.

### **6.2 Supervision and Control**

All LFS interviewers are under the supervision of a staff of senior interviewers who are responsible for ensuring that interviewers are familiar with the concepts and procedures of the LFS and its many supplementary surveys, and also for periodically monitoring their interviewers and reviewing their completed documents. The senior interviewers are, in turn, under the supervision of the LFS program managers, located in each of the 8 Statistics Canada regional offices.

### **6.3 Data Collection Modifications for the SHEU**

The collection period was extended to two weeks to increase the response rate to the supplement. Approximately a week before the collection, households received in the mail a guide to help them prepare for the interview. As a further step towards obtaining better information, some households were offered a visit of the interviewer instead of the usual interview over the phone. It was assumed that two categories of households would benefit most from interviewer's help: households renting their dwellings where all the household members were at least 65 years old and those where the highest level of education was grade eight.

The SHEU questionnaire was administered to a member of household who, according to the LFS respondent, was most knowledgeable about household equipment, appliances and the house or apartment itself.

#### **6.4 Non-Response to the LFS**

Interviewers are instructed to make all reasonable attempts to obtain LFS interviews with members of eligible households. For individuals who at first refuse to participate in the LFS, a letter is sent from the Regional Office to the dwelling address stressing the importance of the survey and the household's cooperation. This is followed by a second call (or visit) from the interviewer. For cases in which the timing of the interviewer's call (or visit) is inconvenient, an appointment is arranged to call back at a more convenient time. For cases in which there is no one home, numerous call backs are made. Under no circumstances are sampled dwellings replaced by other dwellings for reasons of non-response.

Each month, after all attempts to obtain interviews have been made, a small number of non-responding households remain. For households non-responding to the LFS and for which LFS information was obtained in the previous month, this information is brought forward and used as the current month's LFS information. No supplementary survey information is collected for these households.

#### **6.5 Non-Response to the Survey of Household Energy Use**

For households responding to the LFS, the next stage of data collection was to administer the SHEU. In total, 15,182 households were eligible for the supplementary survey; the SHEU interview was completed for 10,982 of these households. This represents a response rate of 72.3%. More detailed information on response rates is presented in Chapter 8 (Data Quality).

## **7. DATA PROCESSING**

The main output of this survey is a "clean" microdata file. This section presents a brief summary of the processing steps involved in producing this file.

### **7.1 Data Capture**

Capture of survey data was accomplished using minicomputers located in Statistics Canada Head Office in Ottawa. During this process any document containing at least one interviewer-completed item was captured and an unedited version of the computer record was electronically transmitted to the Special Surveys Group for further processing. In total, 15,277 documents were captured and transmitted for the survey<sup>5</sup>.

### **7.2 Editing**

The captured data include some interviewer errors and errors made by keyers. Editing corrects these errors to make each record internally consistent.

A "top down" approach to editing was adopted, which means that corrections for missing or improbable values followed the questionnaire flow. The exceptions were appliance and equipment make and model, which were always retained, independently of the answers to the earlier questions.

The questionnaire had separate sections for house residents and for apartment dwellers. There were some records with the wrong sections answered. The editing process moved the answers to the appropriate section.

The edits took also care of conversion of metric to imperial measurements and of recoding to appropriate ranges.

The records that had no or very few answers to the core questions in the questionnaire were dropped.

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<sup>5</sup> Note that the number of questionnaires captured (15,277) was greater than the number of eligible households (15,182). The difference was made up of households that did not respond to the LFS. All but a few of these households were non-respondents to the SHEU as well, even though a questionnaire was transmitted.



### **7.3 Creation of Derived Variables**

A number of data items on the microdata file have been derived by combining items on the questionnaire in order to facilitate data analysis. For example, the variable Q85ADV represents the fuel used by the principal heating system. It is derived from variables Q78 (identifying heat pumps), Q84A (identifying electric baseboards and radiant heating) and Q85A (identifying the fuel used by heating equipments other than heat pumps, electric baseboards and radiant heating).

Another example is variable Q183INDR which represents the total number of incandescent light bulbs used indoors. It is simply the sum of variables Q183A to Q183I.

### **7.4 Weighting**

The principle behind estimation in a probability sample such as the LFS is that each dwelling in the sample "represents", besides itself, several other dwellings not in the sample. For example, in a simple random 2% sample of the population, each dwelling in the sample represents 50 dwellings in the population.

The weighting phase is a step which calculates, for each record, what this number is. This weight appears on the microdata file, and must be used to derive meaningful estimates from the survey. For example, if the number of single houses with a refrigerator of large size is to be estimated, it is done by selecting the records referring to those households in the sample with that characteristic and summing the weights entered on those records.

Details of the method used to calculate these weights are presented in Chapter 11.

### **7.5 Suppression of Confidential Information**

It should be noted that the 'Public Use' microdata files described above differ in a number of important respects from the survey 'master' files held by Statistics Canada. These differences are the result of actions taken to protect the anonymity of individual survey respondents. Users requiring access to information excluded from the microdata files may purchase custom tabulations. Estimates generated will be released to the user, subject to meeting the guidelines for analysis and release outlined in Section 9 of this document.

### Geographic Identifiers

The survey master data file includes explicit geographic identifiers for province, economic region and Census Metropolitan Area. The survey public-use microdata files identify the province and the urban or rural character of the area of residence. For the urban areas the size categories are also provided.

### Names of Energy Suppliers

Respondents provided the names of their energy suppliers together with a permission to contact the utilities. This information has been provided for Statistics Canada use only and has been suppressed.

### Labour Force Status

"Unemployed" and "Not in the Labour Force" categories have been combined.

### Rent

Rent values higher than \$999 have been combined in one category.

## 8. DATA QUALITY

### 8.1 Response Rates

The following table summarizes the response rates to the Survey of Household Energy Use.

PROVINCE	Number of responding households	Response rate (%)
Newfoundland	837	82.6
Prince Edward Island	732	77.3
Nova Scotia	1518	70.1
New Brunswick	1235	65.8
Québec	720	78.8
Ontario	1407	70.8
Manitoba	1476	71.4
Saskatchewan	1704	71.3
Alberta	674	73.8
British Columbia	679	74.5
CANADA	10982	72.3

**Note:** The response rate is the number of households that responded to the SHEU as a percentage of the number of households responding to the LFS and that were eligible for the SHEU. The overall response rate to the February 1993 LFS itself was 94.5%.

### 8.2 Survey Errors

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

Errors which are not related to sampling may occur at almost every phase of a survey

operation. Interviewers may misunderstand instructions, respondents may make errors in answering questions, the answers may be incorrectly entered on the questionnaire and errors may be introduced in the processing and tabulation of the data. These are all examples of non-sampling errors.

Over a large number of observations, randomly occurring errors will have little effect on estimates derived from the survey. However, errors occurring systematically will contribute to biases in the survey estimates. Considerable time and effort was made to reduce non-sampling errors in the survey. Quality assurance measures were implemented at each step of the data collection and processing cycle to monitor the quality of the data. These measures included the use of highly skilled interviewers, extensive training of interviewers with respect to the survey procedures and questionnaire, observation of interviewers to detect problems of questionnaire design or misunderstanding of instructions, procedures to ensure that data capture errors were minimized and coding and edit quality checks to verify the processing logic.

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

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

Since it is an unavoidable fact that estimates from a sample survey are subject to sampling error, sound statistical practice calls for researchers to provide users with some indication of the magnitude of this sampling error. This section of the documentation outlines the measures of sampling error which Statistics Canada commonly uses and which it urges users producing estimates from this microdata file to use also.

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

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

For example, suppose that, based upon the survey results, one estimates that 78.5% of Canadian homes use a microwave oven, and this estimate is found to have a standard error of .006. Then the coefficient of variation of the estimate is calculated as:

$$\left( \frac{.006}{.785} \right) \times 100\% = 0.8\%$$



## 9. PUBLICATION AND RELEASE GUIDELINES

This section of the documentation outlines the guidelines to be adhered to by users publishing or otherwise releasing any data derived from the survey microdata tapes. With the aid of these guidelines, users of microdata should be able to produce the same figures as those produced by Statistics Canada and, at the same time, will be able to develop currently unpublished figures in a manner consistent with these established guidelines.

### 9.1 Organization of the Microdata File

The file contains the data from three sources: the LFS, the Rental Survey conducted in conjunction with the LFS, LFS supplement - the SHEU.

The SHEU part of the file reflects the questionnaire: questions 13-77 and 164-195 apply to all the dwellings, while questions 78-142 and 161-163 apply to the dwellings identified as houses, and questions 143-160 apply to dwellings identified as apartments.

To direct a dwelling to the "house" section of the questionnaire or to the "apartment" section, the LFS classification of the type of dwelling and tenure (owned-rented) was used.

The following LFS types of dwellings answered questions for houses:

- single detached,
- double,
- row or terrace,
- **duplex if owned by a household member,**
- mobile home.

The following types of dwellings answered questions for apartments:

- **duplex if rented,**
- low-rise apartment (less than 5 storeys),
- high-rise apartment (5 or more storeys).

Users have to remember that estimates of certain dwelling characteristics require combining data from both the house and the apartment sections. For example, if the proportion of dwellings using electric baseboards as primary heating is to be estimated, one will combine answers from question 84 and question 144.

When, for example, a proportion of duplexes with wood burning fireplaces is to be estimated, one has to combine the counts for question 91 for duplexes only and for question 148, again for duplexes only and to use as a denominator the total number of duplexes.

## 9.2 Rounding Guidelines

In order that estimates for publication or other release derived from these microdata tapes correspond to those produced by Statistics Canada, users are urged to adhere to the following guidelines regarding the rounding of such estimates:

- a) Estimates in the main body of a statistical table are to be rounded to the nearest hundred units using the normal rounding technique. In normal rounding, if the first or only digit to be dropped is 0 to 4, the last digit to be retained is not changed. If the first or only digit to be dropped is 5 to 9, the last digit to be retained is raised by one. For example, in normal rounding to the nearest 100, if the last two digits are between 00 and 49, they are changed to 00 and the preceding digit (the hundreds digit) is left unchanged. If the last digits are between 50 and 99 they are changed to 00 and the preceding digit is incremented by 1.
- b) Marginal sub-totals and totals in statistical tables are to be derived from their corresponding unrounded components and then are to be rounded themselves to the nearest 100 units using normal rounding.
- c) Averages, proportions, rates and percentages are to be computed from unrounded components (i.e. numerators and/or denominators) and then are to be rounded themselves to one decimal using normal rounding. In normal rounding to a single digit, if the final or only digit to be dropped is 0 to 4, the last digit to be retained is not changed. If the first or only digit to be dropped is 5 to 9, the last digit to be retained is increased by 1.
- d) Sums and differences of aggregates (or ratios) are to be derived from their corresponding unrounded components and then are to be rounded themselves to the nearest 100 units (or the nearest one decimal) using normal rounding.
- e) In instances where, due to technical or other limitations, a rounding technique other than normal rounding is used resulting in estimates to be published or otherwise released which differ from corresponding estimates published by Statistics Canada, users are urged to note the reason for such differences in the publication or release document(s).
- f) Under no circumstances are unrounded estimates to be published or otherwise released by users. Unrounded estimates imply greater precision than actually exists.



### 9.3 Sample Weighting Guidelines for Tabulation

The sample design used for the Survey of Household Energy Use was not self-weighting. When producing simple estimates, including the production of ordinary statistical tables, users must apply the proper sampling weight.

If proper weights are not used, the estimates derived from the microdata tapes cannot be considered to be representative of the survey population, and will not correspond to those produced by Statistics Canada.

Users should also note that some software packages may not allow the generation of estimates that exactly match those available from Statistics Canada, because of their treatment of the weight field.

#### 9.3.1 **Definitions of types of estimates: Categorical vs. Quantitative**

Before discussing how the SHEU data can be tabulated and analyzed, it is useful to describe the two main types of point estimates of population characteristics which can be generated from the microdata file for the SHEU.

##### Categorical Estimates

Categorical estimates are estimates of the number, or percentage of the surveyed population possessing certain characteristics or falling into some defined category. The number of one-storey houses or the proportion of homes using a microwave oven are examples of such estimates. An estimate of the number of persons possessing a certain characteristic may also be referred to as an estimate of an aggregate.

##### Examples of Categorical Questions:

Q: Do you have a wood burning fireplace in your home?

R: Yes / No

Q: How much of the basement area is heated? (Mark one only)

R: Whole basement / More than one half / About one half / Less than half / Don't know

##### Quantitative Estimates

Quantitative estimates are estimates of totals or of means, medians and other measures of central tendency of quantities based upon some or all of the members of the surveyed population. They also specifically involve estimates of the form  $X/Y$  where  $X$  is an estimate of surveyed population quantity total and  $Y$  is an estimate of the number of units in the surveyed population contributing to that total quantity.

An example of a quantitative estimate is the average number of triple pane windows for houses where they are used. The numerator is an estimate of the total number of triple pane windows, and its denominator is the number of houses where triple pane windows are used.

Examples of Quantitative Questions:

Q: How many (wood doors) ... with storm doors?

R: ☐

Q: How many ordinary (incandescent) light bulbs do you have in your ... kitchen?

R: ☐☐

### 9.3.2 Tabulation of Categorical Estimates

Estimates of the number of people with a certain characteristic can be obtained from the microdata file by summing the final weights of all records possessing the characteristic(s) of interest. Proportions and ratios of the form  $X/Y$  are obtained by:

- (a) summing the final weights of records having the characteristic of interest for the numerator (X),
- (b) summing the final weights of records having the characteristic of interest for the denominator (Y), then
- (c) dividing the numerator estimate by the denominator estimate.

### 9.3.3 Tabulation of Quantitative Estimates

Estimates of quantities can be obtained from the microdata file by multiplying the value of the variable of interest by the final weight for each record, then summing this quantity over all records of interest. For example, to obtain an estimate of the total number of triple pane windows used in single houses, multiply the sum of the values reported in Q128A1 (skylights), Q129A1 (oversized) and Q129A2 (other size) – be careful not to count the 9's or 99's corresponding to "not stated"! – by the final weight for the record, then sum this value over all records with DWELLING=1 (single detached houses).

To obtain a weighted average of the form  $X/Y$ , the numerator (X) is calculated as for a quantitative estimate and the denominator (Y) is calculated as for a categorical estimate. For example, to estimate the average number of triple pane windows used in single houses,

- (a) estimate the total number of triple pane windows as described above,
- (b) estimate the number of houses in this category by summing the final weights of all records with DWELLING=1, then
- (c) divide estimate (a) by estimate (b).

Note that in this example the average will be calculated over all single detached houses,

whether they actually have triple pane windows or not. A more meaningful estimate may be obtained by restricting the denominator to be the number of single detached houses for which triple pane windows are used, i.e. in (b), summing weights for records with DWELLING=1 and sum of Q128A1, Q129A1 and Q129A2 greater than zero.

#### 9.4 Guidelines for Statistical Analysis

The Survey of Household Energy Use is based upon a complex design, with stratification and multiple stages of selection, and unequal probabilities of selection of respondents. Using data from such complex surveys presents problems to analysts because the survey design and the selection probabilities affect the estimation and variance calculation procedures that should be used.

While many analysis procedures found in statistical packages allow weights to be used, the meaning or definition of the weight in these procedures differ from that which is appropriate in a sample survey framework, with the result that while in many cases the estimates produced by the packages are correct, the variances that are calculated are almost meaningless.

For many analysis techniques (for example linear regression, logistic regression, analysis of variance), a method exists which can make the application of standard packages more meaningful. If the weights on the records are rescaled so that the average weight is one (1), then the results produced by the standard packages will be more reasonable; they still will not take into account the stratification and clustering of the sample's design, but they will take into account the unequal probabilities of selection. The rescaling can be accomplished by dividing each weight by the overall average weight before the analysis is conducted.

In order to provide a means of assessing the quality of tabulated estimates, Statistics Canada has produced a set of Approximate Sampling Variability Tables (commonly referred to as "CV Tables") for the SHEU. These tables can be used to obtain approximate coefficients of variation for categorical-type estimates and proportions. See Chapter 10 for more details.

#### 9.5 CV Release Guidelines

Before releasing and/or publishing any estimate from these microdata tapes, users should first determine the number of respondents who contribute to the calculation of the estimate. If this number is less than 30, the weighted estimate should not be released regardless of the value of the coefficient of variation for this estimate. For weighted estimates based on sample sizes of 30 or more, users should determine the coefficient of variation of the **rounded** estimate and follow the guidelines below.



### Sampling Variability Guidelines

Type of Estimate	CV (in %)	Guidelines
1. Unqualified	0.0 - 16.5	Estimates can be considered for general unrestricted release. Requires no special notation.
2. Qualified	16.6 - 25.0	Estimates can be considered for general unrestricted release but should be accompanied by a warning cautioning subsequent users of the high sampling variability associated with the estimates. Such estimates should be identified by the letter Q (or in some other similar fashion).
3. Confidential	25.1 - 33.3	Estimates can be considered for general unrestricted release only when sampling variabilities are obtained using an exact variance calculation procedure. Unless exact variances are obtained, such estimates should be deleted and replaced by dashes (---) in statistical tables.
4. Not for Release	33.4 or greater	Estimates cannot be released in any form under any release OR circumstances. In statistical tables, such estimates should be deleted and replaced by dashes(-- )

Note: These sampling variability guidelines should be applied to weighted rounded estimates.

## 10. APPROXIMATE SAMPLING VARIABILITY TABLES

In order to supply coefficients of variation which would be applicable to a wide variety of categorical estimates produced from this microdata file and which could be readily accessed by the user, a set of Approximate Sampling Variability Tables has been produced. These "look-up" tables allow the user to obtain an approximate coefficient of variation based on the size of the estimate calculated from the survey data.

The coefficients of variation (CV) are derived using the variance formula for simple random sampling and incorporating a factor which reflects the multi-stage, clustered nature of the sample design. This factor, known as the design effect, was determined by first calculating design effects for a wide range of characteristics and then choosing from among these a conservative value to be used in the look-up tables which would then apply to the entire set of characteristics.

The table below shows the design effects, sample sizes and population counts by province which were used to produce the Approximate Sampling Variability Tables.

PROVINCE	DESIGN EFFECT	SAMPLE SIZE	POPULATION
Newfoundland	3.0	837	186070
Prince Edward Island	2.1	732	45736
Nova Scotia	3.0	1518	336080
New Brunswick	2.5	1235	260915
Quebec	2.4	720	2710836
Ontario	2.7	1407	3810478
Manitoba	2.6	1476	402524
Saskatchewan	2.3	1704	368270
Alberta	2.2	674	934816
British Columbia	3.0	679	1303492
Atlantic Provinces	3.0	4322	828801
Prairies	2.6	3854	1705610
Canada	6.0	10982	10359217

All coefficients of variation in the Approximate Sampling Variability Tables are approximate and, therefore, unofficial. Estimates of actual variance for specific variables may be obtained

from Statistics Canada on a cost-recovery basis. The use of actual variance estimates would allow users to release otherwise unreleaseable estimates, i.e. estimates with coefficients of variation in the "confidential" range.

Remember: if the number of observations on which an estimate is based is less than 30, the weighted estimate should not be released regardless of the value of the coefficient of variation for this estimate. This is because the formulas used for estimating the variance do not hold true for small sample sizes.

## **10.1 How to Use the CV Tables for Categorical Estimates**

The following rules should enable the user to determine the approximate coefficients of variation from the Sampling Variability Tables for estimates of the number, proportion or percentage of the surveyed population possessing a certain characteristic and for ratios and differences between such estimates.

### **Rule 1: Estimates of Numbers Possessing a Characteristic (Aggregates)**

The coefficient of variation depends only on the size of the estimate itself. On the Sampling Variability Table for the appropriate geographic area, locate the estimated number in the left-most column of the table (headed "Numerator of Percentage") and follow the asterisks (if any) across to the first figure encountered. This figure is the approximate coefficient of variation.

### **Rule 2: Estimates of Proportions or Percentages Possessing a Characteristic**

The coefficient of variation of an estimated proportion or percentage depends on both the size of the proportion or percentage and the size of the total upon which the proportion or percentage is based. Estimated proportions or percentages are relatively more reliable than the corresponding estimates of the numerator of the proportion or percentage, when the proportion or percentage is based upon a sub-group of the population. For example, the proportion of single detached houses with a wood burning fireplace is more reliable than the estimated number of single detached houses with a wood burning fireplace. Note that in the tables the cv's decline in value reading from left to right.

When the proportion or percentage is based upon the total population of the geographic area covered by the table, the cv of the proportion or percentage is the same as the cv of the numerator of the proportion or percentage. In this case, Rule 1 can be used.

When the proportion or percentage is based upon a subset of the total population (e.g. a particular type of dwelling), reference should be made to the proportion or percentage (across the top of the table) and to the numerator of the proportion or percentage (down the left side of the table). The intersection of the appropriate row and column gives the coefficient of variation.



### Rule 3: Estimates of Differences Between Aggregates or Percentages

The standard error of a difference between two estimates is approximately equal to the square root of the sum of squares of each standard error considered separately. That is, the standard error of a difference ( $d = X_1 - X_2$ ) is:

$$\sigma_d = \sqrt{(\hat{X}_1 \alpha_1)^2 + (\hat{X}_2 \alpha_2)^2}$$

where  $X_1$  is estimate 1,  $X_2$  is estimate 2, and  $\alpha_1$  and  $\alpha_2$  are the coefficients of variation of  $X_1$  and  $X_2$  respectively. The coefficient of variation of  $d$  is given by  $\sigma_d/d$ . This formula is accurate for the difference between separate and uncorrelated characteristics, but is only approximate otherwise.

### Rule 4: Estimates of Ratios

In the case where the numerator is a subset of the denominator, the ratio should be converted to a percentage and Rule 2 applied. This would apply, for example, to the case where the denominator is the number of single detached houses and the numerator is the number of single detached houses with a wood burning fireplace.

In the case where the numerator is not a subset of the denominator, as for example, the ratio of the number of houses with a **wood** burning fireplace as compared to the number of houses with a **gas** burning fireplace, the standard deviation of the ratio of the estimates is approximately equal to the square root of the sum of squares of each coefficient of variation considered separately multiplied by  $R$ . That is, the standard error of a ratio ( $R = X_1 / X_2$ ) is:

$$\sigma_R = \hat{R} \sqrt{\alpha_1^2 + \alpha_2^2}$$

where  $\alpha_1$  and  $\alpha_2$  are the coefficients of variation of  $X_1$  and  $X_2$  respectively.

The coefficient of variation of  $R$  is given by  $\sigma_R/R$ . The formula will tend to overstate the error, if  $X_1$  and  $X_2$  are positively correlated and understate the error if  $X_1$  and  $X_2$  are negatively correlated.

### Rule 5: Estimates of Differences of Ratios

In this case, Rules 3 and 4 are combined. The cv's for the two ratios are first determined using Rule 4, and then the cv of their difference is found using Rule 3.



## 10.2 Examples of Using the CV Tables for Categorical Estimates

The following "real life" examples are included to assist users in applying the foregoing rules.

### **Example 1 : Estimates of Numbers Possessing a Characteristic (Aggregates)**

Suppose that a user estimates that 2,321,823 households in Canada use halogen light bulbs (indoors or outdoors). How does the user determine the coefficient of variation of this estimate?

- (1) Refer to the cv table for CANADA.
- (2) The estimated aggregate (2,321,823) does not appear in the left-hand column (the 'Numerator of Percentage' column), so it is necessary to use the figure closest to it, namely 2,000,000.
- (3) The coefficient of variation for an estimated aggregate is found by referring to the first non-asterisk entry on that row, namely, 4.8%.
- (4) So the approximate coefficient of variation of the estimate is 4.8%. The finding that there were 2,321,823 households in Canada that use halogen light bulbs is publishable with no qualifications.

### **Example 2 : Estimates of Proportions or Percentages Possessing a Characteristic**

Suppose that the user estimates that  $2,849,308 / 5,823,176 = 48.9\%$  of single detached houses in Canada have one storey. How does the user determine the coefficient of variation of this estimate?

- (1) Refer to the table for CANADA.
- (2) Because the estimate is a percentage which is based on a subset of the total population (i.e., single detached houses), it is necessary to use both the percentage (48.9%) and the numerator portion of the percentage (2,849,308) in determining the coefficient of variation.
- (3) The numerator, 2,849,308, does not appear in the left-hand column (the 'Numerator of Percentage' column) so it is necessary to use the figure closest to it, namely 3,000,000. Similarly, the percentage estimate does not appear as any of the column headings, so it is necessary to use the figure closest to it, 50.0%.
- (4) The figure at the intersection of the row and column used, namely 3.1% is the coefficient of variation to be used.

- (5) So the approximate coefficient of variation of the estimate is 3.1%. The finding that 48.9% of residents of single detached houses have one storey can be published with no qualifications.

### Example 3 : Estimates of Differences Between Aggregates or Percentages

Suppose that a user estimates that  $3,830,339 / 7,261,564 = 52.7\%$  of houses have their temperature lowered at night, while the same is true for  $782,367 / 3,097,653 = 25.3\%$  of apartments. How does the user determine the coefficient of variation of the difference between these two estimates?

- (1) Using the CANADA cv table for in the same manner as described in example 2 gives the cv of the estimate for houses as 2.7%, and the cv of the estimate for apartments as 7.5%.
- (2) Using rule 3, the standard error of a difference ( $d = X_1 - X_2$ ) is:

$$\sigma_d = \sqrt{(\hat{X}_1 \alpha_1)^2 + (\hat{X}_2 \alpha_2)^2}$$

where  $X_1$  is estimate 1,  $X_2$  is estimate 2, and  $\alpha_1$  and  $\alpha_2$  are the coefficients of variation of  $X_1$  and  $X_2$  respectively.

That is, the standard error of the difference  $d = (.527 - .253) = .274$  is:

$$\begin{aligned}\sigma_d &= \sqrt{[(.527)(.027)]^2 + [(.253)(.075)]^2} \\ &= \sqrt{(.0002025) + (.0003601)} \\ &= .024\end{aligned}$$

- (3) The coefficient of variation of  $d$  is given by  $\sigma_d/d = .024 / .274 = .088$ .
- (4) So the approximate coefficient of variation of the difference between the estimates is 8.8%. This estimate is publishable with no qualifications.

### Example 4 : Estimates of Ratios

Suppose that the user estimates that there are 2,053,991 single detached houses with a wood burning fireplace, while there are 316,530 single detached houses with a gas burning fireplace. The user is interested in comparing these two estimates in the form of a ratio. How does the user determine the coefficient of variation of this estimate?

- (1) First of all, this estimate is a ratio estimate, where the numerator of the estimate ( $=X_1$ ) is the number of single detached houses with a wood burning fireplace. The denominator of the estimate ( $=X_2$ ) is the number of single detached houses with a gas burning fireplace.
- (2) Refer to the table for CANADA.
- (3) The numerator of this ratio estimate is 2,053,991. The figure closest to it is 2,000,000. The coefficient of variation for this estimate is found by referring to the first non-asterisk entry on that row, namely, 4.8%.
- (4) The denominator of this ratio estimate is 316,530. The figure closest to it is 300,000. The coefficient of variation for this estimate is found by referring to the first non-asterisk entry on that row, namely, 13.4%.
- (5) So the approximate coefficient of variation of the ratio estimate is given by rule 4, which is,

$$\alpha_{\hat{R}} = \sqrt{\alpha_1^2 + \alpha_2^2}$$

where  $\alpha_1$  and  $\alpha_2$  are the coefficients of variation of  $X_1$  and  $X_2$  respectively.

That is ,

$$\begin{aligned}\alpha_{\hat{R}} &= \sqrt{(.048)^2 + (.134)^2} \\ &= 0.142\end{aligned}$$

The obtained ratio of the number of single detached houses with a wood burning fireplace, over the number of single detached houses with a gas burning fireplace is 2,053,991 / 316,530 which is 6.49:1. The coefficient of variation of this estimate is 14.2%, which is releasable with no qualifications.

### 10.3 How to Use the CV Tables to Obtain Confidence Limits

Although coefficients of variation are widely used, a more intuitively meaningful measure of sampling error is the confidence interval of an estimate. A confidence interval constitutes a statement on the level of confidence that the true value for the population lies within a specified range of values. For example a 95% confidence interval can be described as follows:

If sampling of the population is repeated indefinitely, each sample leading to a new confidence interval for an estimate, then in 95% of the samples the interval will cover the true population value.

Using the standard error of an estimate, confidence intervals for estimates may be obtained under the assumption that under repeated sampling of the population, the various estimates obtained for a population characteristic are normally distributed about the true population value. Under this assumption, the chances are about 68 out of 100 that the difference between a sample estimate and the true population value would be less than one standard error, about 95 out of 100 that the difference would be less than two standard errors, and about 99 out of 100 that the differences would be less than three standard errors. These different degrees of confidence are referred to as the confidence levels.

Confidence intervals for an estimate,  $\hat{X}$ , are generally expressed as two numbers, one below the estimate and one above the estimate, as  $(\hat{X}-k, \hat{X}+k)$  where  $k$  is determined depending upon the level of confidence desired and the sampling error of the estimate.

Confidence intervals for an estimate can be calculated directly from the Approximate Sampling Variability Tables by first determining from the appropriate table the coefficient of variation of the estimate  $\hat{X}$ , and then using the following formula to convert to a confidence interval CI:

$$CI_X = [\hat{X} - t \hat{X} \alpha_{\hat{X}}, \hat{X} + t \hat{X} \alpha_{\hat{X}}]$$

where  $\alpha_X$  is the determined coefficient of variation of  $\hat{X}$ , and

- t = 1 if a 68% confidence interval is desired
- t = 1.6 if a 90% confidence interval is desired
- t = 2 if a 95% confidence interval is desired
- t = 3 if a 99% confidence interval is desired.

Note: Release guidelines which apply to the estimate also apply to the confidence interval. For example, if the estimate is not releasable, then the confidence interval is not releasable either.

#### **10.4 Example of Using the CV Tables to Obtain Confidence Limits**

A 95% confidence interval for the estimated proportion of single detached houses with one storey (from Example 2, section 10.2) would be calculated as follows.

$\hat{X} = 48.9\%$  (or expressed as a proportion = .489)

t = 2



$\alpha_X = 3.1\%$  (.031 expressed as a proportion) is the coefficient of variation of this estimate as determined from the tables.

$$CI_X = \{.489 - (2) (.489) (.031), .489 + (2) (.489) (.031)\}$$

$$CI_X = \{.489 - .030, .489 + .030\}$$

$$CI_X = \{.459, .519\}$$

With 95% confidence it can be said that between 45.9% and 51.9% of single detached houses have one storey.

### 10.5 How to Use the CV Tables to Do a T-Test

Standard errors may also be used to perform hypothesis testing, a procedure for distinguishing between population parameters using sample estimates. The sample estimates can be numbers, averages, percentages, ratios, etc. Tests may be performed at various levels of significance, where a level of significance is the probability of concluding that the characteristics are different when, in fact, they are identical.

Let  $X_1$  and  $X_2$  be sample estimates for two characteristics of interest. Let the standard error on the difference  $X_1 - X_2$  be  $\sigma_d$ .

If  $t = \frac{\hat{X}_1 - \hat{X}_2}{\sigma_d}$  is between -2 and 2, then no conclusion about the difference between the

characteristics is justified at the 5% level of significance. If however, this ratio is smaller than -2 or larger than +2, the observed difference is significant at the 0.05 level. That is to say that the characteristics are significant.

### 10.6 Example of Using the CV Tables to Do a T-Test

Let us suppose we wish to test, at 5% level of significance, the hypothesis that there is no difference between the proportion of houses where the temperature is lowered at night and the proportion of apartments where the same is done. From example 3, section 10.2, the standard error of the difference between these two estimates was found to be = .024. Hence,

$$t = \frac{\hat{X}_1 - \hat{X}_2}{\sigma_d} = \frac{.527 - .253}{.024} = \frac{.274}{.024} = 11.42.$$

Since  $t = 11.42$  is greater than 2, it must be concluded that there is a significant difference between the two estimates at the 0.05 level of significance.

## **10.7 Coefficients of Variation for Quantitative Estimates**

For quantitative estimates, special tables would have to be produced to determine their sampling error. Since most of the variables for the Survey of Household Energy Use are primarily categorical in nature, this has not been done.

As a general rule, however, the coefficient of variation of a quantitative total will be larger than the coefficient of variation of the corresponding category estimate (i.e., the estimate of the number of persons contributing to the quantitative estimate). If the corresponding category estimate is not releasable, the quantitative estimate will not be either. For example, the coefficient of variation of the total number of wood burning fireplaces would be greater than the coefficient of variation of the proportion of households with a wood burning fireplace. Hence if the coefficient of variation of the proportion is not releasable, then the coefficient of variation of the corresponding quantitative estimate will also not be releasable.

Coefficients of variation of such estimates can be derived as required for a specific estimate using a technique known as pseudo replication. This involves dividing the records on the microdata files into subgroups (or replicates) and determining the variation in the estimate from replicate to replicate. Users wishing to derive coefficients of variation for quantitative estimates may contact Statistics Canada for advice on the allocation of records to appropriate replicates and the formulae to be used in these calculations.

## **10.8 Release Cut-Off's for the SHEU**

The minimum size of the estimate at the provincial, regional and Canada levels are specified in the table below. Estimates smaller than the minimum size given in the "Not Releasable" column may not be released under any circumstances.

Table of Release Cut-offs

PROVINCE	PUBLISHABLE	RELEASABLE WITH QUALIFICATION	NOT RELEASABLE
Newfoundland	21,500	10,000	6,000
Prince Edward Island	4,500	2,000	1,000
Nova Scotia	22,500	10,500	6,000
New Brunswick	18,000	8,000	4,500
Québec	295,500	137,500	79,000
Ontario	251,000	113,500	65,000
Manitoba	24,500	11,000	6,500
Saskatchewan	17,500	8,000	4,500
Alberta	100,000	46,500	26,500
British Columbia	182,000	86,000	50,000
Atlantic Provinces	20,500	9,000	5,000
Prairie Provinces	41,000	18,000	10,500
CANADA	204,000	90,000	51,000

### 10.9 CV Tables

The approximate sampling variability tables for each province and for Canada are given on the following pages.

## 11. WEIGHTING

Since the Survey of Household Energy Use used a sub-sample of the LFS sample, the derivation of weights for the survey records is clearly tied to the weighting procedure used for the LFS. The LFS weighting procedure is briefly described below.

### 11.1 Weighting Procedures for the LFS

In the LFS, the final weight attached to each record is the product of the following factors: the basic weight, the cluster sub-weight, the balancing factor for non-response, the rural-urban factor and the province-age-sex ratio adjustment factor. Each is described below.

#### Basic Weight

In a probability sample, the sample design itself determines weights which must be used to produce unbiased estimates of the population. Each record must be weighted by the inverse of the probability of selecting the person to whom the record refers. In the example of a 2% simple random sample, this probability would be .02 for each person and the records must be weighted by  $1/.02=50$ . Because all eligible individuals in a dwelling are interviewed (directly or by proxy), this probability is essentially the same as the probability with which the dwelling is selected.

#### Cluster Sub-weight

The cluster delineation is such that the number of dwellings in the sample increases very slightly with moderate growth in the housing stock. Substantial growth can be tolerated in an isolated cluster before the additional sample represents a field collection problem. However, if growth takes place in more than one cluster in an interviewer assignment, the cumulative effect of all increases may create a workload problem. In clusters where substantial growth has taken place, sub-sampling is used as a means of keeping interviewer assignments manageable. The cluster sub-weight represents the inverse of this sub-sampling ratio in clusters where sub-sampling has occurred.

#### Non-response

Notwithstanding the strict controls of the LFS, some non-response is inevitable, despite all the attempts made by the interviewers. The LFS non-response rate is approximately 5%. For certain types of non-response (eg. household temporarily absent, refusal), data from a previous month's interview with the household if any, is brought forward and used as the current month's data for the household.

In other cases, non-response is compensated for by proportionally increasing the weights of responding households. The weight of each responding record is increased by the ratio of the number of households that should have been interviewed, divided by the number that were



## 10.9 CV Tables

The approximate sampling variability tables for each province and for Canada are given on the following pages.

## Survey of Household Energy Use - February 1993

## Approximate Sampling Variability Tables for Newfoundland

NUMERATOR OF PERCENTAGE ( '000)	ESTIMATED PERCENTAGE													
	0.1%	1.0%	2.0%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%	35.0%	40.0%	50.0%	70.0%	90.0%
1	*****	81.1	80.7	79.4	77.3	75.1	72.9	70.6	68.2	65.7	63.1	57.6	44.6	25.8
2	*****		57.0	56.2	54.7	53.1	51.5	49.9	48.2	46.5	44.6	40.7	31.6	18.2
3	*****		46.6	45.9	44.6	43.4	42.1	40.7	39.4	37.9	36.4	33.3	25.8	14.9
4	*****			39.7	38.6	37.6	36.4	35.3	34.1	32.8	31.6	28.8	22.3	12.9
5	*****			35.5	34.6	33.6	32.6	31.6	30.5	29.4	28.2	25.8	20.0	11.5
6	*****			32.4	31.6	30.7	29.8	28.8	27.8	26.8	25.8	23.5	18.2	10.5
7	*****			30.0	29.2	28.4	27.5	26.7	25.8	24.8	23.9	21.8	16.9	9.7
8	*****			28.1	27.3	26.6	25.8	24.9	24.1	23.2	22.3	20.4	15.8	9.1
9	*****			26.5	25.8	25.0	24.3	23.5	22.7	21.9	21.0	19.2	14.9	8.6
10	*****				24.4	23.8	23.0	22.3	21.6	20.8	20.0	18.2	14.1	8.1
11	*****				23.3	22.7	22.0	21.3	20.6	19.8	19.0	17.4	13.5	7.8
12	*****				22.3	21.7	21.0	20.4	19.7	19.0	18.2	16.6	12.9	7.4
13	*****				21.4	20.8	20.2	19.6	18.9	18.2	17.5	16.0	12.4	7.1
14	*****				20.7	20.1	19.5	18.9	18.2	17.6	16.9	15.4	11.9	6.9
15	*****				20.0	19.4	18.8	18.2	17.6	17.0	16.3	14.9	11.5	6.7
16	*****				19.3	18.8	18.2	17.6	17.0	16.4	15.8	14.4	11.2	6.4
17	*****				18.7	18.2	17.7	17.1	16.5	15.9	15.3	14.0	10.8	6.2
18	*****				18.2	17.7	17.2	16.6	16.1	15.5	14.9	13.6	10.5	6.1
19	*****					17.2	16.7	16.2	15.6	15.1	14.5	13.2	10.2	5.9
20	*****					16.8	16.3	15.8	15.2	14.7	14.1	12.9	10.0	5.8
21	*****					16.4	15.9	15.4	14.9	14.3	13.8	12.6	9.7	5.6
22	*****					16.0	15.5	15.0	14.5	14.0	13.5	12.3	9.5	5.5
23	*****					15.7	15.2	14.7	14.2	13.7	13.2	12.0	9.3	5.4
24	*****					15.3	14.9	14.4	13.9	13.4	12.9	11.8	9.1	5.3
25	*****					15.0	14.6	14.1	13.6	13.1	12.6	11.5	8.9	5.2
30	*****						13.3	12.9	12.4	12.0	11.5	10.5	8.1	4.7
35	*****						12.3	11.9	11.5	11.1	10.7	9.7	7.5	4.4
40	*****							11.2	10.8	10.4	10.0	9.1	7.1	4.1
45	*****							10.5	10.2	9.8	9.4	8.6	6.7	3.8
50	*****								9.6	9.3	8.9	8.1	6.3	3.6
55	*****									9.2	8.9	8.5	7.8	3.5
60	*****										8.5	8.1	7.4	3.3
65	*****											8.1	7.8	3.2
70	*****												7.5	3.1
75	*****													3.0
80	*****													2.9
85	*****													2.8
90	*****													2.7
95	*****													2.6
100	*****													2.6
125	*****													2.3
150	*****													2.1

NOTE: FOR CORRECT USAGE OF THESE TABLES PLEASE REFER TO MICRODATA DOCUMENTATION

## Survey of Household Energy Use - February 1993

## Approximate Sampling Variability Tables for Prince Edward Island

NUMERATOR OF PERCENTAGE ( '000)	ESTIMATED PERCENTAGE													
	0.1%	1.0%	2.0%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%	35.0%	40.0%	50.0%	70.0%	90.0%
1	*****			35.0	34.1	33.1	32.1	31.1	30.1	29.0	27.8	25.4	19.7	11.4
2	*****			24.8	24.1	23.4	22.7	22.0	21.3	20.5	19.7	18.0	13.9	8.0
3	*****				19.7	19.1	18.6	18.0	17.4	16.7	16.1	14.7	11.4	6.6
4	*****				17.0	16.6	16.1	15.6	15.0	14.5	13.9	12.7	9.8	5.7
5	*****					14.8	14.4	13.9	13.4	13.0	12.4	11.4	8.8	5.1
6	*****					13.5	13.1	12.7	12.3	11.8	11.4	10.4	8.0	4.6
7	*****						12.1	11.8	11.4	10.9	10.5	9.6	7.4	4.3
8	*****						11.4	11.0	10.6	10.2	9.8	9.0	7.0	4.0
9	*****						10.7	10.4	10.0	9.7	9.3	8.5	6.6	3.8
10	*****							9.8	9.5	9.2	8.8	8.0	6.2	3.6
11	*****							9.4	9.1	8.7	8.4	7.7	5.9	3.4
12	*****								8.7	8.4	8.0	7.3	5.7	3.3
13	*****								8.3	8.0	7.7	7.0	5.5	3.2
14	*****									7.7	7.4	6.8	5.3	3.0
15	*****									7.5	7.2	6.6	5.1	2.9
16	*****									7.2	7.0	6.4	4.9	2.8
17	*****										6.8	6.2	4.8	2.8
18	*****										6.6	6.0	4.6	2.7
19	*****											5.8	4.5	2.6
20	*****											5.7	4.4	2.5
21	*****											5.5	4.3	2.5
22	*****											5.4	4.2	2.4
23	*****												4.1	2.4
24	*****												4.0	2.3
25	*****												3.9	2.3
30	*****												3.6	2.1
35	*****													1.9
40	*****													1.8

NOTE: FOR CORRECT USAGE OF THESE TABLES PLEASE REFER TO MICRODATA DOCUMENTATION



## Survey of Household Energy Use - February 1993

## Approximate Sampling Variability Tables for Nova Scotia

NUMERATOR OF PERCENTAGE ( '000)	ESTIMATED PERCENTAGE													
	0.1%	1.0%	2.0%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%	35.0%	40.0%	50.0%	70.0%	90.0%
1	*****	80.9	80.5	79.3	77.1	75.0	72.7	70.4	68.0	65.6	63.0	57.5	44.5	25.7
2	*****	57.2	56.9	56.0	54.5	53.0	51.4	49.8	48.1	46.4	44.5	40.7	31.5	18.2
3	*****	46.7	46.5	45.8	44.5	43.3	42.0	40.7	39.3	37.8	36.4	33.2	25.7	14.8
4	*****		40.2	39.6	38.6	37.5	36.4	35.2	34.0	32.8	31.5	28.7	22.3	12.9
5	*****		36.0	35.4	34.5	33.5	32.5	31.5	30.4	29.3	28.2	25.7	19.9	11.5
6	*****		32.9	32.4	31.5	30.6	29.7	28.7	27.8	26.8	25.7	23.5	18.2	10.5
7	*****			30.0	29.2	28.3	27.5	26.6	25.7	24.8	23.8	21.7	16.8	9.7
8	*****			28.0	27.3	26.5	25.7	24.9	24.1	23.2	22.3	20.3	15.7	9.1
9	*****			26.4	25.7	25.0	24.2	23.5	22.7	21.9	21.0	19.2	14.8	8.6
10	*****			25.1	24.4	23.7	23.0	22.3	21.5	20.7	19.9	18.2	14.1	8.1
11	*****			23.9	23.3	22.6	21.9	21.2	20.5	19.8	19.0	17.3	13.4	7.8
12	*****			22.9	22.3	21.6	21.0	20.3	19.6	18.9	18.2	16.6	12.9	7.4
13	*****			22.0	21.4	20.8	20.2	19.5	18.9	18.2	17.5	15.9	12.4	7.1
14	*****			21.2	20.6	20.0	19.4	18.8	18.2	17.5	16.8	15.4	11.9	6.9
15	*****			20.5	19.9	19.4	18.8	18.2	17.6	16.9	16.3	14.8	11.5	6.6
16	*****			19.8	19.3	18.7	18.2	17.6	17.0	16.4	15.7	14.4	11.1	6.4
17	*****				18.7	18.2	17.6	17.1	16.5	15.9	15.3	13.9	10.8	6.2
18	*****				18.2	17.7	17.1	16.6	16.0	15.5	14.8	13.6	10.5	6.1
19	*****				17.7	17.2	16.7	16.2	15.6	15.0	14.4	13.2	10.2	5.9
20	*****				17.2	16.8	16.3	15.7	15.2	14.7	14.1	12.9	10.0	5.7
21	*****				16.8	16.4	15.9	15.4	14.8	14.3	13.7	12.5	9.7	5.6
22	*****				16.4	16.0	15.5	15.0	14.5	14.0	13.4	12.3	9.5	5.5
23	*****				16.1	15.6	15.2	14.7	14.2	13.7	13.1	12.0	9.3	5.4
24	*****				15.7	15.3	14.8	14.4	13.9	13.4	12.9	11.7	9.1	5.2
25	*****				15.4	15.0	14.5	14.1	13.6	13.1	12.6	11.5	8.9	5.1
30	*****				14.1	13.7	13.3	12.9	12.4	12.0	11.5	10.5	8.1	4.7
35	*****					12.7	12.3	11.9	11.5	11.1	10.6	9.7	7.5	4.3
40	*****					11.9	11.5	11.1	10.8	10.4	10.0	9.1	7.0	4.1
45	*****					11.2	10.8	10.5	10.1	9.8	9.4	8.6	6.6	3.8
50	*****					10.6	10.3	10.0	9.6	9.3	8.9	8.1	6.3	3.6
55	*****						9.8	9.5	9.2	8.8	8.5	7.8	6.0	3.5
60	*****						9.4	9.1	8.8	8.5	8.1	7.4	5.7	3.3
65	*****						9.0	8.7	8.4	8.1	7.8	7.1	5.5	3.2
70	*****							8.4	8.1	7.8	7.5	6.9	5.3	3.1
75	*****							8.1	7.9	7.6	7.3	6.6	5.1	3.0
80	*****							7.9	7.6	7.3	7.0	6.4	5.0	2.9
85	*****								7.4	7.1	6.8	6.2	4.8	2.8
90	*****								7.2	6.9	6.6	6.1	4.7	2.7
95	*****								7.0	6.7	6.5	5.9	4.6	2.6
100	*****								6.8	6.6	6.3	5.7	4.5	2.6
125	*****										5.6	5.1	4.0	2.3
150	*****											4.7	3.6	2.1
200	*****												3.1	1.8
250	*****													1.6
300	*****													1.5

NOTE: FOR CORRECT USAGE OF THESE TABLES PLEASE REFER TO MICRODATA DOCUMENTATION



Survey of Household Energy Use - February 1993

Approximate Sampling Variability Tables for New Brunswick

NUMERATOR OF PERCENTAGE ( '000)	ESTIMATED PERCENTAGE													
	0.1%	1.0%	2.0%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%	35.0%	40.0%	50.0%	70.0%	90.0%
1	*****	72.1	71.8	70.7	68.8	66.8	64.8	62.8	60.7	58.5	56.2	51.3	39.7	22.9
2	*****	51.0	50.8	50.0	48.6	47.3	45.9	44.4	42.9	41.3	39.7	36.3	28.1	16.2
3	*****		41.4	40.8	39.7	38.6	37.4	36.3	35.0	33.7	32.4	29.6	22.9	13.2
4	*****		35.9	35.3	34.4	33.4	32.4	31.4	30.3	29.2	28.1	25.6	19.9	11.5
5	*****		32.1	31.6	30.8	29.9	29.0	28.1	27.1	26.1	25.1	22.9	17.8	10.3
6	*****			28.8	28.1	27.3	26.5	25.6	24.8	23.9	22.9	20.9	16.2	9.4
7	*****			26.7	26.0	25.3	24.5	23.7	22.9	22.1	21.2	19.4	15.0	8.7
8	*****			25.0	24.3	23.6	22.9	22.2	21.4	20.7	19.9	18.1	14.0	8.1
9	*****			23.6	22.9	22.3	21.6	20.9	20.2	19.5	18.7	17.1	13.2	7.6
10	*****			22.3	21.8	21.1	20.5	19.9	19.2	18.5	17.8	16.2	12.6	7.3
11	*****			21.3	20.7	20.2	19.6	18.9	18.3	17.6	16.9	15.5	12.0	6.9
12	*****			20.4	19.9	19.3	18.7	18.1	17.5	16.9	16.2	14.8	11.5	6.6
13	*****			19.6	19.1	18.5	18.0	17.4	16.8	16.2	15.6	14.2	11.0	6.4
14	*****				18.4	17.9	17.3	16.8	16.2	15.6	15.0	13.7	10.6	6.1
15	*****				17.8	17.3	16.7	16.2	15.7	15.1	14.5	13.2	10.3	5.9
16	*****				17.2	16.7	16.2	15.7	15.2	14.6	14.0	12.8	9.9	5.7
17	*****				16.7	16.2	15.7	15.2	14.7	14.2	13.6	12.4	9.6	5.6
18	*****				16.2	15.8	15.3	14.8	14.3	13.8	13.2	12.1	9.4	5.4
19	*****				15.8	15.3	14.9	14.4	13.9	13.4	12.9	11.8	9.1	5.3
20	*****				15.4	14.9	14.5	14.0	13.6	13.1	12.6	11.5	8.9	5.1
21	*****				15.0	14.6	14.2	13.7	13.2	12.8	12.3	11.2	8.7	5.0
22	*****				14.7	14.3	13.8	13.4	12.9	12.5	12.0	10.9	8.5	4.9
23	*****				14.3	13.9	13.5	13.1	12.6	12.2	11.7	10.7	8.3	4.8
24	*****				14.0	13.6	13.2	12.8	12.4	11.9	11.5	10.5	8.1	4.7
25	*****				13.8	13.4	13.0	12.6	12.1	11.7	11.2	10.3	7.9	4.6
30	*****					12.2	11.8	11.5	11.1	10.7	10.3	9.4	7.3	4.2
35	*****					11.3	11.0	10.6	10.3	9.9	9.5	8.7	6.7	3.9
40	*****						10.3	9.9	9.6	9.2	8.9	8.1	6.3	3.6
45	*****						9.7	9.4	9.0	8.7	8.4	7.6	5.9	3.4
50	*****						9.2	8.9	8.6	8.3	7.9	7.3	5.6	3.2
55	*****							8.5	8.2	7.9	7.6	6.9	5.4	3.1
60	*****							8.1	7.8	7.5	7.3	6.6	5.1	3.0
65	*****							7.8	7.5	7.3	7.0	6.4	4.9	2.8
70	*****								7.3	7.0	6.7	6.1	4.7	2.7
75	*****								7.0	6.7	6.5	5.9	4.6	2.6
80	*****									6.5	6.3	5.7	4.4	2.6
85	*****									6.3	6.1	5.6	4.3	2.5
90	*****									6.2	5.9	5.4	4.2	2.4
95	*****										5.8	5.3	4.1	2.4
100	*****										5.6	5.1	4.0	2.3
125	*****											4.6	3.6	2.1
150	*****												3.2	1.9
200	*****													1.6

NOTE: FOR CORRECT USAGE OF THESE TABLES PLEASE REFER TO MICRODATA DOCUMENTATION

## Survey of Household Energy Use - February 1993

## Approximate Sampling Variability Tables for Quebec

NUMERATOR OF PERCENTAGE ( '000)	ESTIMATED PERCENTAGE													
	0.1%	1.0%	2.0%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%	35.0%	40.0%	50.0%	70.0%	90.0%
1	300.4	299.1	297.5	293.0	285.1	277.1	268.8	260.3	251.5	242.3	232.8	212.5	164.6	95.0
2	212.4	211.5	210.4	207.1	201.6	195.9	190.1	184.1	177.8	171.3	164.6	150.3	116.4	67.2
3	*****	172.7	171.8	169.1	164.6	160.0	155.2	150.3	145.2	139.9	134.4	122.7	95.0	54.9
4	*****	149.5	148.8	146.5	142.6	138.6	134.4	130.1	125.7	121.2	116.4	106.3	82.3	47.5
5	*****	133.7	133.1	131.0	127.5	123.9	120.2	116.4	112.5	108.4	104.1	95.0	73.6	42.5
6	*****	122.1	121.5	119.6	116.4	113.1	109.7	106.3	102.7	98.9	95.0	86.8	67.2	38.8
7	*****	113.0	112.5	110.7	107.8	104.7	101.6	98.4	95.0	91.6	88.0	80.3	62.2	35.9
8	*****	105.7	105.2	103.6	100.8	98.0	95.0	92.0	88.9	85.7	82.3	75.1	58.2	33.6
9	*****	99.7	99.2	97.7	95.0	92.4	89.6	86.8	83.8	80.8	77.6	70.8	54.9	31.7
10	*****	94.6	94.1	92.6	90.2	87.6	85.0	82.3	79.5	76.6	73.6	67.2	52.1	30.1
11	*****	90.2	89.7	88.3	86.0	83.5	81.1	78.5	75.8	73.1	70.2	64.1	49.6	28.7
12	*****	86.3	85.9	84.6	82.3	80.0	77.6	75.1	72.6	70.0	67.2	61.4	47.5	27.4
13	*****	82.9	82.5	81.3	79.1	76.9	74.6	72.2	69.7	67.2	64.6	58.9	45.7	26.4
14	*****	79.9	79.5	78.3	76.2	74.1	71.8	69.6	67.2	64.8	62.2	56.8	44.0	25.4
15	*****	77.2	76.8	75.6	73.6	71.5	69.4	67.2	64.9	62.6	60.1	54.9	42.5	24.5
16	*****	74.8	74.4	73.2	71.3	69.3	67.2	65.1	62.9	60.6	58.2	53.1	41.2	23.8
17	*****	72.5	72.2	71.1	69.2	67.2	65.2	63.1	61.0	58.8	56.5	51.5	39.9	23.1
18	*****	70.5	70.1	69.0	67.2	65.3	63.4	61.4	59.3	57.1	54.9	50.1	38.8	22.4
19	*****	68.6	68.3	67.2	65.4	63.6	61.7	59.7	57.7	55.6	53.4	48.8	37.8	21.8
20	*****	66.9	66.5	65.5	63.8	62.0	60.1	58.2	56.2	54.2	52.1	47.5	36.8	21.3
21	*****	65.3	64.9	63.9	62.2	60.5	58.7	56.8	54.9	52.9	50.8	46.4	35.9	20.7
22	*****	63.8	63.4	62.5	60.8	59.1	57.3	55.5	53.6	51.7	49.6	45.3	35.1	20.3
23	*****	62.4	62.0	61.1	59.5	57.8	56.1	54.3	52.4	50.5	48.5	44.3	34.3	19.8
24	*****	61.0	60.7	59.8	58.2	56.6	54.9	53.1	51.3	49.5	47.5	43.4	33.6	19.4
25	*****	59.8	59.5	58.6	57.0	55.4	53.8	52.1	50.3	48.5	46.6	42.5	32.9	19.0
30	*****	54.3	53.5	52.1	50.6	49.1	47.5	45.9	44.2	42.5	40.8	38.8	30.1	17.4
35	*****	50.3	49.5	48.2	46.8	45.4	44.0	42.5	41.0	39.4	37.8	35.9	27.8	16.1
40	*****	47.0	46.3	45.1	43.8	42.5	41.2	39.8	38.3	36.8	35.3	33.6	26.0	15.0
45	*****	44.4	43.7	42.5	41.3	40.1	38.8	37.5	36.1	34.7	33.2	31.7	24.5	14.2
50	*****	42.1	41.4	40.3	39.2	38.0	36.8	35.6	34.3	32.9	31.4	30.1	23.3	13.4
55	*****	39.5	38.4	37.4	36.2	35.1	33.9	32.7	31.3	30.1	28.7	27.2	22.2	12.8
60	*****	37.8	36.8	35.8	34.7	33.6	32.5	31.3	30.1	28.9	27.4	26.0	21.3	12.3
65	*****	36.3	35.4	34.4	33.3	32.3	31.2	30.1	29.0	27.8	26.4	25.0	20.4	11.8
70	*****	35.0	34.1	33.1	32.1	31.1	30.1	29.0	28.0	26.9	25.4	24.0	19.7	11.4
75	*****	33.8	32.9	32.0	31.0	30.1	29.0	28.0	26.9	25.8	24.5	23.1	19.0	11.0
80	*****	32.8	31.9	31.0	30.1	29.1	28.1	27.1	26.0	24.9	23.8	22.4	18.4	10.6
85	*****	31.8	30.9	30.1	29.2	28.2	27.3	26.3	25.3	24.3	23.1	21.8	17.9	10.3
90	*****	30.9	30.1	29.2	28.3	27.4	26.5	25.5	24.5	23.5	22.4	21.3	17.4	10.0
95	*****	30.1	29.3	28.4	27.6	26.7	25.8	24.9	23.9	22.9	21.8	20.7	16.9	9.8
100	*****	29.3	28.5	27.7	26.9	26.0	25.1	24.2	23.3	22.3	21.3	20.3	16.5	9.5
125	*****	26.2	25.5	24.8	24.0	23.3	22.5	21.7	20.8	19.9	19.0	18.0	14.7	8.5
150	*****	23.3	22.6	21.9	21.3	20.5	19.8	19.0	18.1	17.2	16.3	15.3	12.4	7.8
200	*****	20.2	19.6	19.0	18.4	17.8	17.1	16.5	15.9	15.3	14.7	14.0	11.6	6.7
250	*****	18.0	17.5	17.0	16.5	15.9	15.3	14.7	14.1	13.5	12.9	12.3	10.4	6.0
300	*****	16.0	15.5	15.0	14.5	14.0	13.4	12.9	12.3	11.7	11.1	10.5	9.5	5.5
350	*****	14.8	14.4	13.9	13.4	12.9	12.3	11.7	11.1	10.5	9.9	9.3	8.8	5.1
400	*****	13.9	13.4	13.0	12.6	12.1	11.6	11.1	10.5	9.9	9.3	8.7	8.2	4.8
450	*****	12.7	12.3	11.9	11.4	10.9	10.4	9.8	9.3	8.7	8.1	7.5	7.8	4.5
500	*****	12.0	11.6	11.2	10.8	10.4	9.9	9.3	8.7	8.1	7.5	6.9	7.4	4.3
750	*****	9.2	8.8	8.5	8.1	7.7	7.3	6.9	6.5	6.1	5.7	5.3	6.0	3.5
1000	*****	7.4	7.1	6.8	6.5	6.1	5.8	5.4	5.1	4.8	4.5	4.2	5.2	3.0
1500	*****	4.3	4.1	3.9	3.7	3.5	3.3	3.1	2.9	2.7	2.5	2.3	4.3	2.5
2000	*****	2.1	2.0	1.9	1.8	1.7	1.6	1.5	1.4	1.3	1.2	1.1	2.1	2.1

NOTE: FOR CORRECT USAGE OF THESE TABLES PLEASE REFER TO MICRODATA DOCUMENTATION



## Survey of Household Energy Use - February 1993

## Approximate Sampling Variability Tables for Ontario

NUMERATOR OF PERCENTAGE ( '000)	ESTIMATED PERCENTAGE													
	0.1%	1.0%	2.0%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%	35.0%	40.0%	50.0%	70.0%	90.0%
1	270.2	269.0	267.6	263.5	256.5	249.3	241.8	234.1	226.2	218.0	209.4	191.2	148.1	85.5
2	191.1	190.2	189.3	186.3	181.4	176.3	171.0	165.6	159.9	154.1	148.1	135.2	104.7	60.5
3	156.0	155.3	154.5	152.1	148.1	143.9	139.6	135.2	130.6	125.8	120.9	110.4	85.5	49.4
4	*****	134.5	133.8	131.8	128.2	124.6	120.9	117.1	113.1	109.0	104.7	95.6	74.0	42.7
5	*****	120.3	119.7	117.8	114.7	111.5	108.1	104.7	101.2	97.5	93.7	85.5	66.2	38.2
6	*****	109.8	109.3	107.6	104.7	101.8	98.7	95.6	92.3	89.0	85.5	78.0	60.5	34.9
7	*****	101.7	101.2	99.6	96.9	94.2	91.4	88.5	85.5	82.4	79.2	72.3	56.0	32.3
8	*****	95.1	94.6	93.2	90.7	88.1	85.5	82.8	80.0	77.1	74.0	67.6	52.4	30.2
9	*****	89.7	89.2	87.8	85.5	83.1	80.6	78.0	75.4	72.7	69.8	63.7	49.4	28.5
10	*****	85.1	84.6	83.3	81.1	78.8	76.5	74.0	71.5	68.9	66.2	60.5	46.8	27.0
11	*****	81.1	80.7	79.5	77.3	75.2	72.9	70.6	68.2	65.7	63.1	57.6	44.6	25.8
12	*****	77.7	77.3	76.1	74.0	72.0	69.8	67.6	65.3	62.9	60.5	55.2	42.7	24.7
13	*****	74.6	74.2	73.1	71.1	69.1	67.1	64.9	62.7	60.5	58.1	53.0	41.1	23.7
14	*****	71.9	71.5	70.4	68.5	66.6	64.6	62.6	60.5	58.3	56.0	51.1	39.6	22.8
15	*****	69.5	69.1	68.0	66.2	64.4	62.4	60.5	58.4	56.3	54.1	49.4	38.2	22.1
16	*****	67.3	66.9	65.9	64.1	62.3	60.5	58.5	56.6	54.5	52.4	47.8	37.0	21.4
17	*****	65.2	64.9	63.9	62.2	60.5	58.6	56.8	54.9	52.9	50.8	46.4	35.9	20.7
18	*****	63.4	63.1	62.1	60.5	58.8	57.0	55.2	53.3	51.4	49.4	45.1	34.9	20.2
19	*****	61.7	61.4	60.5	58.8	57.2	55.5	53.7	51.9	50.0	48.0	43.9	34.0	19.6
20	*****	60.2	59.8	58.9	57.4	55.7	54.1	52.4	50.6	48.7	46.8	42.7	33.1	19.1
21	*****	58.7	58.4	57.5	56.0	54.4	52.8	51.1	49.4	47.6	45.7	41.7	32.3	18.7
22	*****	57.4	57.1	56.2	54.7	53.1	51.6	49.9	48.2	46.5	44.6	40.8	31.6	18.2
23	*****	56.1	55.8	54.9	53.5	52.0	50.4	48.8	47.2	45.5	43.7	39.9	30.9	17.8
24	*****	54.9	54.6	53.8	52.4	50.9	49.4	47.8	46.2	44.5	42.7	39.0	30.2	17.5
25	*****	53.8	53.5	52.7	51.3	49.9	48.4	46.8	45.2	43.6	41.9	38.2	29.6	17.1
30	*****	49.1	48.9	48.1	46.8	45.5	44.1	42.7	41.3	39.8	38.2	34.9	27.0	15.6
35	*****	45.5	45.2	44.5	43.4	42.1	40.9	39.6	38.2	36.8	35.4	32.3	25.0	14.5
40	*****	*****	42.3	41.7	40.6	39.4	38.2	37.0	35.8	34.5	33.1	30.2	23.4	13.5
45	*****	*****	39.9	39.3	38.2	37.2	36.0	34.9	33.7	32.5	31.2	28.5	22.1	12.7
50	*****	*****	37.9	37.3	36.3	35.3	34.2	33.1	32.0	30.8	29.6	27.0	20.9	12.1
55	*****	*****	36.1	35.5	34.6	33.6	32.6	31.6	30.5	29.4	28.2	25.8	20.0	11.5
60	*****	*****	34.6	34.0	33.1	32.2	31.2	30.2	29.2	28.1	27.0	24.7	19.1	11.0
65	*****	*****	33.2	32.7	31.8	30.9	30.0	29.0	28.1	27.0	26.0	23.7	18.4	10.6
70	*****	*****	32.0	31.5	30.7	29.8	28.9	28.0	27.0	26.1	25.0	22.8	17.7	10.2
75	*****	*****	30.9	30.4	29.6	28.8	27.9	27.0	26.1	25.2	24.2	22.1	17.1	9.9
80	*****	*****	*****	29.5	28.7	27.9	27.0	26.2	25.3	24.4	23.4	21.4	16.6	9.6
85	*****	*****	*****	28.6	27.8	27.0	26.2	25.4	24.5	23.6	22.7	20.7	16.1	9.3
90	*****	*****	*****	27.8	27.0	26.3	25.5	24.7	23.8	23.0	22.1	20.2	15.6	9.0
95	*****	*****	*****	27.0	26.3	25.6	24.8	24.0	23.2	22.4	21.5	19.6	15.2	8.8
100	*****	*****	*****	26.4	25.6	24.9	24.2	23.4	22.6	21.8	20.9	19.1	14.8	8.5
125	*****	*****	*****	23.6	22.9	22.3	21.6	20.9	20.2	19.5	18.7	17.1	13.2	7.6
150	*****	*****	*****	21.5	20.9	20.4	19.7	19.1	18.5	17.8	17.1	15.6	12.1	7.0
200	*****	*****	*****	18.1	17.6	17.1	16.6	16.0	15.4	14.8	14.1	13.5	10.5	6.0
250	*****	*****	*****	16.2	15.8	15.3	14.8	14.3	13.8	13.2	12.6	12.1	9.4	5.4
300	*****	*****	*****	14.8	14.4	14.0	13.5	13.1	12.6	12.1	11.6	11.0	8.5	4.9
350	*****	*****	*****	13.7	13.3	12.9	12.5	12.1	11.7	11.2	10.7	10.2	7.9	4.6
400	*****	*****	*****	12.5	12.1	11.7	11.3	10.9	10.5	10.1	9.6	9.1	7.0	4.3
450	*****	*****	*****	11.8	11.4	11.0	10.7	10.3	9.9	9.4	8.9	8.4	6.6	3.8
500	*****	*****	*****	11.1	10.8	10.5	10.1	9.7	9.3	8.8	8.3	7.8	6.1	3.5
750	*****	*****	*****	8.8	8.5	8.2	7.9	7.5	7.1	6.7	6.3	5.9	4.7	2.7
1000	*****	*****	*****	7.2	6.9	6.6	6.3	6.0	5.7	5.4	5.1	4.8	3.8	2.2
1500	*****	*****	*****	5.4	5.1	4.8	4.5	4.2	3.9	3.6	3.3	3.0	2.4	1.6
2000	*****	*****	*****	4.3	4.0	3.7	3.4	3.1	2.8	2.5	2.2	2.0	1.6	1.0
3000	*****	*****	*****	3.3	3.0	2.7	2.4	2.1	1.8	1.5	1.3	1.1	0.9	0.6

NOTE: FOR CORRECT USAGE OF THESE TABLES PLEASE REFER TO MICRODATA DOCUMENTATION

## Survey of Household Energy Use - February 1993

## Approximate Sampling Variability Tables for Manitoba

NUMERATOR OF PERCENTAGE ( '000)	ESTIMATED PERCENTAGE													
	0.1%	1.0%	2.0%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%	35.0%	40.0%	50.0%	70.0%	90.0%
1	*****	83.6	83.2	81.9	79.7	77.5	75.2	72.8	70.3	67.8	65.1	59.4	46.0	26.6
2	*****	59.1	58.8	57.9	56.4	54.8	53.2	51.5	49.7	47.9	46.0	42.0	32.6	18.8
3	*****	48.3	48.0	47.3	46.0	44.7	43.4	42.0	40.6	39.1	37.6	34.3	26.6	15.3
4	*****	41.8	41.6	41.0	39.9	38.7	37.6	36.4	35.2	33.9	32.6	29.7	23.0	13.3
5	*****		37.2	36.6	35.7	34.7	33.6	32.6	31.4	30.3	29.1	26.6	20.6	11.9
6	*****		34.0	33.4	32.6	31.6	30.7	29.7	28.7	27.7	26.6	24.3	18.8	10.9
7	*****		31.4	31.0	30.1	29.3	28.4	27.5	26.6	25.6	24.6	22.5	17.4	10.0
8	*****		29.4	29.0	28.2	27.4	26.6	25.7	24.9	24.0	23.0	21.0	16.3	9.4
9	*****			27.3	26.6	25.8	25.1	24.3	23.4	22.6	21.7	19.8	15.3	8.9
10	*****			25.9	25.2	24.5	23.8	23.0	22.2	21.4	20.6	18.8	14.6	8.4
11	*****			24.7	24.0	23.4	22.7	21.9	21.2	20.4	19.6	17.9	13.9	8.0
12	*****			23.6	23.0	22.4	21.7	21.0	20.3	19.6	18.8	17.2	13.3	7.7
13	*****			22.7	22.1	21.5	20.9	20.2	19.5	18.8	18.1	16.5	12.8	7.4
14	*****			21.9	21.3	20.7	20.1	19.5	18.8	18.1	17.4	15.9	12.3	7.1
15	*****			21.2	20.6	20.0	19.4	18.8	18.2	17.5	16.8	15.3	11.9	6.9
16	*****			20.5	19.9	19.4	18.8	18.2	17.6	16.9	16.3	14.9	11.5	6.6
17	*****			19.9	19.3	18.8	18.2	17.7	17.1	16.4	15.8	14.4	11.2	6.4
18	*****			19.3	18.8	18.3	17.7	17.2	16.6	16.0	15.3	14.0	10.9	6.3
19	*****			18.8	18.3	17.8	17.2	16.7	16.1	15.5	14.9	13.6	10.6	6.1
20	*****			18.3	17.8	17.3	16.8	16.3	15.7	15.2	14.6	13.3	10.3	5.9
21	*****				17.4	16.9	16.4	15.9	15.3	14.8	14.2	13.0	10.0	5.8
22	*****				17.0	16.5	16.0	15.5	15.0	14.4	13.9	12.7	9.8	5.7
23	*****				16.6	16.2	15.7	15.2	14.7	14.1	13.6	12.4	9.6	5.5
24	*****				16.3	15.8	15.3	14.9	14.4	13.8	13.3	12.1	9.4	5.4
25	*****				15.9	15.5	15.0	14.6	14.1	13.6	13.0	11.9	9.2	5.3
30	*****				14.6	14.1	13.7	13.3	12.8	12.4	11.9	10.9	8.4	4.9
35	*****				13.5	13.1	12.7	12.3	11.9	11.5	11.0	10.0	7.8	4.5
40	*****				12.6	12.3	11.9	11.5	11.1	10.7	10.3	9.4	7.3	4.2
45	*****					11.6	11.2	10.9	10.5	10.1	9.7	8.9	6.9	4.0
50	*****					11.0	10.6	10.3	9.9	9.6	9.2	8.4	6.5	3.8
55	*****					10.4	10.1	9.8	9.5	9.1	8.8	8.0	6.2	3.6
60	*****					10.0	9.7	9.4	9.1	8.7	8.4	7.7	5.9	3.4
65	*****						9.3	9.0	8.7	8.4	8.1	7.4	5.7	3.3
70	*****						9.0	8.7	8.4	8.1	7.8	7.1	5.5	3.2
75	*****						8.7	8.4	8.1	7.8	7.5	6.9	5.3	3.1
80	*****						8.4	8.1	7.9	7.6	7.3	6.6	5.1	3.0
85	*****							7.9	7.6	7.4	7.1	6.4	5.0	2.9
90	*****							7.7	7.4	7.1	6.9	6.3	4.9	2.8
95	*****							7.5	7.2	7.0	6.7	6.1	4.7	2.7
100	*****							7.3	7.0	6.8	6.5	5.9	4.6	2.7
125	*****								6.1	5.8	5.3	4.1	2.4	
150	*****									5.3	4.9	3.8	2.2	
200	*****										4.2	3.3	1.9	
250	*****											2.9	1.7	
300	*****												1.5	
350	*****													1.4

NOTE: FOR CORRECT USAGE OF THESE TABLES PLEASE REFER TO MICRODATA DOCUMENTATION



## Survey of Household Energy Use - February 1993

## Approximate Sampling Variability Tables for Saskatchewan

NUMERATOR OF PERCENTAGE ( '000)	ESTIMATED PERCENTAGE													
	0.1%	1.0%	2.0%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%	35.0%	40.0%	50.0%	70.0%	90.0%
1	*****	70.0	69.6	68.6	66.7	64.9	62.9	60.9	58.9	56.7	54.5	49.7	38.5	22.2
2	*****	49.5	49.2	48.5	47.2	45.9	44.5	43.1	41.6	40.1	38.5	35.2	27.2	15.7
3	*****	40.4	40.2	39.6	38.5	37.4	36.3	35.2	34.0	32.7	31.5	28.7	22.2	12.8
4	*****		34.8	34.3	33.4	32.4	31.5	30.5	29.4	28.4	27.2	24.9	19.3	11.1
5	*****		31.1	30.7	29.8	29.0	28.1	27.2	26.3	25.4	24.4	22.2	17.2	9.9
6	*****		28.4	28.0	27.2	26.5	25.7	24.9	24.0	23.2	22.2	20.3	15.7	9.1
7	*****		26.3	25.9	25.2	24.5	23.8	23.0	22.2	21.4	20.6	18.8	14.6	8.4
8	*****			24.2	23.6	22.9	22.2	21.5	20.8	20.1	19.3	17.6	13.6	7.9
9	*****			22.9	22.2	21.6	21.0	20.3	19.6	18.9	18.2	16.6	12.8	7.4
10	*****			21.7	21.1	20.5	19.9	19.3	18.6	17.9	17.2	15.7	12.2	7.0
11	*****			20.7	20.1	19.6	19.0	18.4	17.7	17.1	16.4	15.0	11.6	6.7
12	*****			19.8	19.3	18.7	18.2	17.6	17.0	16.4	15.7	14.4	11.1	6.4
13	*****			19.0	18.5	18.0	17.4	16.9	16.3	15.7	15.1	13.8	10.7	6.2
14	*****			18.3	17.8	17.3	16.8	16.3	15.7	15.2	14.6	13.3	10.3	5.9
15	*****			17.7	17.2	16.7	16.2	15.7	15.2	14.6	14.1	12.8	9.9	5.7
16	*****			17.1	16.7	16.2	15.7	15.2	14.7	14.2	13.6	12.4	9.6	5.6
17	*****			16.6	16.2	15.7	15.3	14.8	14.3	13.8	13.2	12.1	9.3	5.4
18	*****			16.2	15.7	15.3	14.8	14.4	13.9	13.4	12.8	11.7	9.1	5.2
19	*****				15.3	14.9	14.4	14.0	13.5	13.0	12.5	11.4	8.8	5.1
20	*****				14.9	14.5	14.1	13.6	13.2	12.7	12.2	11.1	8.6	5.0
21	*****				14.6	14.2	13.7	13.3	12.8	12.4	11.9	10.9	8.4	4.9
22	*****				14.2	13.8	13.4	13.0	12.5	12.1	11.6	10.6	8.2	4.7
23	*****				13.9	13.5	13.1	12.7	12.3	11.8	11.4	10.4	8.0	4.6
24	*****				13.6	13.2	12.8	12.4	12.0	11.6	11.1	10.2	7.9	4.5
25	*****				13.3	13.0	12.6	12.2	11.8	11.3	10.9	9.9	7.7	4.4
30	*****				12.2	11.8	11.5	11.1	10.7	10.4	9.9	9.1	7.0	4.1
35	*****				11.3	11.0	10.6	10.3	9.9	9.6	9.2	8.4	6.5	3.8
40	*****					10.3	9.9	9.6	9.3	9.0	8.6	7.9	6.1	3.5
45	*****					9.7	9.4	9.1	8.8	8.5	8.1	7.4	5.7	3.3
50	*****					9.2	8.9	8.6	8.3	8.0	7.7	7.0	5.4	3.1
55	*****					8.7	8.5	8.2	7.9	7.6	7.3	6.7	5.2	3.0
60	*****						8.1	7.9	7.6	7.3	7.0	6.4	5.0	2.9
65	*****						7.8	7.6	7.3	7.0	6.8	6.2	4.8	2.8
70	*****						7.5	7.3	7.0	6.8	6.5	5.9	4.6	2.7
75	*****							7.0	6.8	6.5	6.3	5.7	4.4	2.6
80	*****							6.8	6.6	6.3	6.1	5.6	4.3	2.5
85	*****							6.6	6.4	6.2	5.9	5.4	4.2	2.4
90	*****							6.4	6.2	6.0	5.7	5.2	4.1	2.3
95	*****								6.0	5.8	5.6	5.1	4.0	2.3
100	*****								5.9	5.7	5.4	5.0	3.9	2.2
125	*****									5.1	4.9	4.4	3.4	2.0
150	*****											4.1	3.1	1.8
200	*****												2.7	1.6
250	*****												2.4	1.4
300	*****													1.3

NOTE: FOR CORRECT USAGE OF THESE TABLES PLEASE REFER TO MICRODATA DOCUMENTATION

## Survey of Household Energy Use - February 1993

## Approximate Sampling Variability Tables for Alberta

NUMERATOR OF PERCENTAGE ( '000)	ESTIMATED PERCENTAGE													
	0.1%	1.0%	2.0%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%	35.0%	40.0%	50.0%	70.0%	90.0%
1	*****	173.7	172.9	170.2	165.7	161.0	156.2	151.2	146.1	140.8	135.3	123.5	95.6	55.2
2	*****	122.9	122.2	120.3	117.1	113.8	110.4	106.9	103.3	99.5	95.6	87.3	67.6	39.0
3	*****	100.3	99.8	98.3	95.6	92.9	90.2	87.3	84.3	81.3	78.1	71.3	55.2	31.9
4	*****	86.9	86.4	85.1	82.8	80.5	78.1	75.6	73.0	70.4	67.6	61.7	47.8	27.6
5	*****	77.7	77.3	76.1	74.1	72.0	69.8	67.6	65.3	63.0	60.5	55.2	42.8	24.7
6	*****	70.9	70.6	69.5	67.6	65.7	63.8	61.7	59.6	57.5	55.2	50.4	39.0	22.5
7	*****	65.7	65.3	64.3	62.6	60.8	59.0	57.2	55.2	53.2	51.1	46.7	36.1	20.9
8	*****	61.4	61.1	60.2	58.6	56.9	55.2	53.5	51.7	49.8	47.8	43.7	33.8	19.5
9	*****	57.9	57.6	56.7	55.2	53.7	52.1	50.4	48.7	46.9	45.1	41.2	31.9	18.4
10	*****	54.7	54.7	53.8	52.4	50.9	49.4	47.8	46.2	44.5	42.8	39.0	30.2	17.5
11	*****	52.1	51.3	49.9	48.5	47.1	45.6	44.0	42.4	40.8	39.2	37.2	28.8	16.6
12	*****	49.9	49.1	47.8	46.5	45.1	43.7	42.2	40.6	39.0	37.5	35.6	27.6	15.9
13	*****	47.9	47.2	45.9	44.7	43.3	41.9	40.5	39.0	37.5	36.1	34.2	26.5	15.3
14	*****	46.2	45.5	44.3	43.0	41.7	40.4	39.0	37.6	36.1	34.9	33.0	25.6	14.8
15	*****	44.6	43.9	42.8	41.6	40.3	39.0	37.7	36.3	34.9	33.9	31.9	24.7	14.3
16	*****	43.2	42.5	41.4	40.2	39.0	37.8	36.5	35.2	33.8	32.9	30.9	23.9	13.8
17	*****	41.9	41.3	40.2	39.0	37.9	36.7	35.4	34.1	32.8	31.9	29.9	23.2	13.4
18	*****	40.7	40.1	39.0	37.9	36.8	35.6	34.4	33.2	31.9	31.0	28.3	21.9	12.7
19	*****	39.0	38.0	36.9	35.8	34.7	33.5	32.3	31.0	30.2	28.3	26.9	20.9	12.0
20	*****	38.1	37.0	36.0	34.9	33.8	32.7	31.5	30.2	28.8	27.6	26.3	20.4	11.8
21	*****	37.1	36.1	35.1	34.1	33.0	31.9	30.7	29.5	28.2	27.1	25.7	19.9	11.5
22	*****	36.3	35.3	34.3	33.3	32.2	31.1	30.0	28.8	27.6	26.5	25.2	19.5	11.3
23	*****	35.5	34.5	33.6	32.6	31.5	30.5	29.4	28.2	27.1	26.0	24.7	19.1	11.0
24	*****	34.7	33.8	32.9	31.9	30.9	29.8	28.7	27.6	26.5	25.4	24.3	19.1	11.0
25	*****	34.0	33.1	32.2	31.2	30.2	29.2	28.2	27.1	26.0	25.0	23.9	19.1	11.0
30	*****	31.1	30.2	29.4	28.5	27.6	26.7	25.7	24.7	23.8	22.9	21.9	16.2	9.3
35	*****	28.8	28.0	27.2	26.4	25.6	24.7	23.8	22.9	22.0	21.1	20.2	15.1	8.7
40	*****	26.9	26.2	25.5	24.7	23.9	23.1	22.3	21.4	20.5	19.6	18.7	14.3	8.2
45	*****	25.4	24.7	24.0	23.3	22.5	21.8	21.0	20.2	19.4	18.6	17.8	13.4	7.8
50	*****	23.4	22.8	22.1	21.4	20.7	20.0	19.3	18.6	17.9	17.2	16.5	12.9	7.4
55	*****	22.3	21.7	21.1	20.4	19.7	19.0	18.2	17.5	16.8	16.1	15.4	12.3	7.1
60	*****	21.4	20.8	20.2	19.5	18.9	18.2	17.5	16.8	16.1	15.4	14.7	11.9	6.8
65	*****	20.5	20.0	19.4	18.8	18.1	17.5	16.8	16.2	15.6	15.0	14.3	11.4	6.6
70	*****	19.8	19.2	18.7	18.1	17.5	16.9	16.3	15.7	15.1	14.5	13.9	11.0	6.4
75	*****	19.1	18.6	18.0	17.5	16.9	16.3	15.7	15.1	14.5	13.9	13.3	10.7	6.2
80	*****	18.5	18.0	17.5	16.9	16.3	15.7	15.1	14.5	13.9	13.3	12.7	10.4	6.0
85	*****	18.0	17.5	16.9	16.4	15.8	15.3	14.7	14.1	13.5	12.9	12.3	10.1	5.8
90	*****	17.5	17.0	16.5	15.9	15.4	14.8	14.3	13.7	13.1	12.5	11.9	9.8	5.7
95	*****	16.5	16.0	15.5	15.0	14.4	13.9	13.3	12.7	12.1	11.5	10.9	9.6	5.5
100	*****	16.1	15.6	15.1	14.6	14.1	13.5	13.0	12.4	11.8	11.2	10.6	9.3	5.4
125	*****	14.4	14.0	13.5	13.1	12.6	12.1	11.5	11.0	10.4	9.8	9.2	8.0	5.2
150	*****	12.8	12.3	11.9	11.5	11.0	10.4	9.8	9.2	8.6	8.0	7.4	6.3	5.0
200	*****	10.7	10.3	9.9	9.5	9.0	8.5	8.0	7.4	6.8	6.2	5.6	4.7	4.3
250	*****	9.2	8.9	8.6	8.2	7.8	7.4	6.9	6.4	5.9	5.4	4.9	4.1	3.8
300	*****	8.1	7.8	7.4	7.0	6.6	6.2	5.7	5.3	4.8	4.4	3.9	3.2	3.0
350	*****	7.2	6.9	6.5	6.1	5.7	5.3	4.9	4.5	4.1	3.7	3.3	2.7	2.6
400	*****	6.2	5.9	5.5	5.1	4.7	4.3	3.9	3.5	3.1	2.7	2.3	1.9	1.8
450	*****	5.8	5.4	5.0	4.6	4.2	3.8	3.4	3.0	2.6	2.2	1.8	1.5	1.4
500	*****	4.3	4.0	3.7	3.3	3.0	2.6	2.2	1.8	1.4	1.0	0.7	0.6	0.5
750	*****	2.0	1.8	1.6	1.4	1.2	1.0	0.8	0.6	0.4	0.3	0.2	0.1	0.1

NOTE: FOR CORRECT USAGE OF THESE TABLES PLEASE REFER TO MICRODATA DOCUMENTATION



## Survey of Household Energy Use - February 1993

## Approximate Sampling Variability Tables for British Columbia

NUMERATOR OF PERCENTAGE ( '000)	ESTIMATED PERCENTAGE													
	0.1%	1.0%	2.0%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%	35.0%	40.0%	50.0%	70.0%	90.0%
1	239.8	238.7	237.5	233.8	227.6	221.2	214.6	207.8	200.7	193.4	185.8	169.6	131.4	75.9
2	*****	168.8	167.9	165.4	160.9	156.4	151.7	146.9	141.9	136.8	131.4	120.0	92.9	53.6
3	*****	137.8	137.1	135.0	131.4	127.7	123.9	120.0	115.9	111.7	107.3	97.9	75.9	43.8
4	*****	119.4	118.8	116.9	113.8	110.6	107.3	103.9	100.4	96.7	92.9	84.8	65.7	37.9
5	*****	106.8	106.2	104.6	101.8	98.9	96.0	92.9	89.8	86.5	83.1	75.9	58.8	33.9
6	*****	97.5	97.0	95.5	92.9	90.3	87.6	84.8	81.9	79.0	75.9	69.3	53.6	31.0
7	*****	90.2	89.8	88.4	86.0	83.6	81.1	78.5	75.9	73.1	70.2	64.1	49.7	28.7
8	*****	84.4	84.0	82.7	80.5	78.2	75.9	73.5	71.0	68.4	65.7	60.0	46.5	26.8
9	*****	79.6	79.2	77.9	75.9	73.7	71.5	69.3	66.9	64.5	61.9	56.5	43.8	25.3
10	*****	75.5	75.1	73.9	72.0	69.9	67.9	65.7	63.5	61.2	58.8	53.6	41.6	24.0
11	*****	72.0	71.6	70.5	68.6	66.7	64.7	62.6	60.5	58.3	56.0	51.2	39.6	22.9
12	*****	68.9	68.6	67.5	65.7	63.9	61.9	60.0	57.9	55.8	53.6	49.0	37.9	21.9
13	*****	66.2	65.9	64.9	63.1	61.3	59.5	57.6	55.7	53.6	51.5	47.1	36.4	21.0
14	*****	63.5	62.5	60.8	59.1	57.4	55.5	53.6	51.7	49.7	47.7	45.3	35.1	20.3
15	*****	61.3	60.4	58.8	57.1	55.4	53.6	51.8	49.9	48.0	46.0	43.8	33.9	19.6
16	*****	59.4	58.5	56.9	55.3	53.6	51.9	50.2	48.4	46.5	44.5	42.4	32.9	19.0
17	*****	57.6	56.7	55.2	53.6	52.0	50.4	48.7	46.9	45.1	43.1	41.1	31.9	18.4
18	*****	56.0	55.1	53.6	52.1	50.6	49.0	47.3	45.6	43.8	42.0	40.0	31.0	17.9
19	*****	54.5	53.6	52.2	50.7	49.2	47.7	46.1	44.4	42.6	40.8	38.9	30.1	17.4
20	*****	53.1	52.3	50.9	49.5	48.0	46.5	44.9	43.3	41.6	39.9	37.9	29.4	17.0
21	*****	51.8	51.0	49.7	48.3	46.8	45.3	43.8	42.2	40.6	39.0	37.0	28.7	16.6
22	*****	50.6	49.9	48.5	47.2	45.8	44.3	42.8	41.2	39.6	38.0	36.2	28.0	16.2
23	*****	49.5	48.8	47.5	46.1	44.7	43.3	41.9	40.3	38.8	37.2	35.4	27.4	15.8
24	*****	48.5	47.7	46.5	45.2	43.8	42.4	41.0	39.5	37.9	36.4	34.6	26.8	15.5
25	*****	47.5	46.8	45.5	44.2	42.9	41.6	40.1	38.7	37.2	35.7	33.9	26.3	15.2
30	*****	42.7	41.6	40.4	39.2	37.9	36.6	35.3	33.9	32.6	31.3	30.0	24.0	13.9
35	*****	39.5	38.5	37.4	36.3	35.1	33.9	32.7	31.4	30.2	28.9	27.7	22.2	12.8
40	*****	37.0	36.0	35.0	33.9	32.9	31.7	30.6	29.4	28.3	27.2	26.0	20.8	12.0
45	*****	34.9	33.9	33.0	32.0	31.0	29.9	28.8	27.7	26.6	25.5	24.4	19.6	11.3
50	*****	33.1	32.2	31.3	30.3	29.4	28.4	27.4	26.4	25.4	24.4	23.4	18.6	10.7
55	*****	31.5	30.7	29.8	28.9	28.0	27.1	26.1	25.1	24.2	23.2	22.2	17.7	10.2
60	*****	30.2	29.4	28.6	27.7	26.8	25.9	25.0	24.0	23.1	22.2	21.3	17.0	9.8
65	*****	29.0	28.2	27.4	26.6	25.8	24.9	24.0	23.1	22.2	21.3	20.4	16.3	9.4
70	*****	27.2	26.4	25.6	24.8	24.0	23.2	22.3	21.5	20.6	19.7	18.8	15.7	9.1
75	*****	26.3	25.5	24.8	24.0	23.2	22.3	21.5	20.6	19.7	18.8	17.9	15.2	8.8
80	*****	25.4	24.7	24.0	23.2	22.4	21.6	20.8	19.9	19.0	18.1	17.2	14.7	8.5
85	*****	24.7	24.0	23.3	22.5	21.8	21.0	20.2	19.4	18.5	17.6	16.7	14.3	8.2
90	*****	24.0	23.3	22.6	21.9	21.2	20.4	19.6	18.8	17.9	17.0	16.1	13.9	8.0
95	*****	23.4	22.7	22.0	21.3	20.6	19.8	19.1	18.3	17.4	16.5	15.6	13.5	7.8
100	*****	22.8	22.1	21.5	20.8	20.1	19.3	18.6	17.8	17.0	16.1	15.2	13.1	7.6
125	*****	20.4	19.8	19.2	18.6	18.0	17.3	16.6	15.9	15.2	14.5	13.8	11.8	6.8
150	*****	18.1	17.5	17.0	16.4	15.8	15.2	14.6	14.0	13.4	12.8	12.2	10.7	6.2
200	*****	15.2	14.7	14.2	13.7	13.1	12.6	12.0	11.5	11.0	10.5	10.0	9.3	5.4
250	*****	13.6	13.1	12.7	12.2	11.8	11.3	10.8	10.3	9.9	9.4	8.9	8.3	4.8
300	*****	12.0	11.6	11.2	10.7	10.3	9.9	9.4	8.9	8.5	8.0	7.6	7.0	4.4
350	*****	10.7	10.3	9.9	9.4	9.0	8.6	8.2	7.8	7.4	7.0	6.6	6.2	4.1
400	*****	9.7	9.3	8.9	8.5	8.1	7.7	7.3	6.9	6.5	6.1	5.7	5.3	3.8
450	*****	9.1	8.8	8.4	8.0	7.6	7.2	6.8	6.4	6.0	5.6	5.2	4.8	3.6
500	*****	8.3	8.0	7.6	7.2	6.8	6.4	6.0	5.6	5.2	4.8	4.4	4.0	3.4
750	*****	7.6	7.2	6.8	6.4	6.0	5.6	5.2	4.8	4.4	4.0	3.6	3.2	2.8
1000	*****	7.0	6.6	6.2	5.8	5.4	5.0	4.6	4.2	3.8	3.4	3.0	2.6	2.4

NOTE: FOR CORRECT USAGE OF THESE TABLES PLEASE REFER TO MICRODATA DOCUMENTATION

## Survey of Household Energy Use - February 1993

## Approximate Sampling Variability Tables for Atlantic provinces

NUMERATOR OF PERCENTAGE ( '000)	ESTIMATED PERCENTAGE													
	0.1%	1.0%	2.0%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%	35.0%	40.0%	50.0%	70.0%	90.0%
1	*****	75.3	74.9	73.7	71.8	69.7	67.7	65.5	63.3	61.0	58.6	53.5	41.4	23.9
2	*****	53.2	53.0	52.1	50.7	49.3	47.8	46.3	44.8	43.1	41.4	37.8	29.3	16.9
3	*****	43.5	43.2	42.6	41.4	40.3	39.1	37.8	36.5	35.2	33.8	30.9	23.9	13.8
4	*****	37.6	37.4	36.9	35.9	34.9	33.8	32.8	31.6	30.5	29.3	26.7	20.7	12.0
5	*****	33.7	33.5	33.0	32.1	31.2	30.3	29.3	28.3	27.3	26.2	23.9	18.5	10.7
6	*****	30.7	30.6	30.1	29.3	28.5	27.6	26.7	25.8	24.9	23.9	21.8	16.9	9.8
7	*****	28.4	28.3	27.9	27.1	26.4	25.6	24.8	23.9	23.1	22.1	20.2	15.7	9.0
8	*****	26.6	26.5	26.1	25.4	24.7	23.9	23.2	22.4	21.6	20.7	18.9	14.6	8.5
9	*****		25.0	24.6	23.9	23.2	22.6	21.8	21.1	20.3	19.5	17.8	13.8	8.0
10	*****		23.7	23.3	22.7	22.1	21.4	20.7	20.0	19.3	18.5	16.9	13.1	7.6
11	*****		22.6	22.2	21.6	21.0	20.4	19.8	19.1	18.4	17.7	16.1	12.5	7.2
12	*****		21.6	21.3	20.7	20.1	19.5	18.9	18.3	17.6	16.9	15.4	12.0	6.9
13	*****		20.8	20.5	19.9	19.3	18.8	18.2	17.6	16.9	16.3	14.8	11.5	6.6
14	*****		20.0	19.7	19.2	18.6	18.1	17.5	16.9	16.3	15.7	14.3	11.1	6.4
15	*****		19.3	19.0	18.5	18.0	17.5	16.9	16.3	15.7	15.1	13.8	10.7	6.2
16	*****		18.7	18.4	17.9	17.4	16.9	16.4	15.8	15.2	14.6	13.4	10.4	6.0
17	*****			17.9	17.4	16.9	16.4	15.9	15.4	14.8	14.2	13.0	10.0	5.8
18	*****			17.4	16.9	16.4	15.9	15.4	14.9	14.4	13.8	12.6	9.8	5.6
19	*****			16.9	16.5	16.0	15.5	15.0	14.5	14.0	13.4	12.3	9.5	5.5
20	*****			16.5	16.0	15.6	15.1	14.6	14.2	13.6	13.1	12.0	9.3	5.3
21	*****			16.1	15.7	15.2	14.8	14.3	13.8	13.3	12.8	11.7	9.0	5.2
22	*****			15.7	15.3	14.9	14.4	14.0	13.5	13.0	12.5	11.4	8.8	5.1
23	*****			15.4	15.0	14.5	14.1	13.7	13.2	12.7	12.2	11.2	8.6	5.0
24	*****			15.1	14.6	14.2	13.8	13.4	12.9	12.4	12.0	10.9	8.5	4.9
25	*****			14.7	14.4	13.9	13.5	13.1	12.7	12.2	11.7	10.7	8.3	4.8
30	*****			13.5	13.1	12.7	12.4	12.0	11.6	11.1	10.7	9.8	7.6	4.4
35	*****			12.5	12.1	11.8	11.4	11.1	10.7	10.3	9.9	9.0	7.0	4.0
40	*****			11.7	11.3	11.0	10.7	10.4	10.0	9.6	9.3	8.5	6.6	3.8
45	*****				10.7	10.4	10.1	9.8	9.4	9.1	8.7	8.0	6.2	3.6
50	*****				10.1	9.9	9.6	9.3	9.0	8.6	8.3	7.6	5.9	3.4
55	*****				9.7	9.4	9.1	8.8	8.5	8.2	7.9	7.2	5.6	3.2
60	*****				9.3	9.0	8.7	8.5	8.2	7.9	7.6	6.9	5.3	3.1
65	*****				8.9	8.7	8.4	8.1	7.9	7.6	7.3	6.6	5.1	3.0
70	*****				8.6	8.3	8.1	7.8	7.6	7.3	7.0	6.4	5.0	2.9
75	*****				8.3	8.1	7.8	7.6	7.3	7.0	6.8	6.2	4.8	2.8
80	*****				8.0	7.8	7.6	7.3	7.1	6.8	6.6	6.0	4.6	2.7
85	*****					7.6	7.3	7.1	6.9	6.6	6.4	5.8	4.5	2.6
90	*****					7.4	7.1	6.9	6.7	6.4	6.2	5.6	4.4	2.5
95	*****					7.2	6.9	6.7	6.5	6.3	6.0	5.5	4.3	2.5
100	*****					7.0	6.8	6.6	6.3	6.1	5.9	5.3	4.1	2.4
125	*****						6.1	5.9	5.7	5.5	5.2	4.8	3.7	2.1
150	*****						5.5	5.3	5.2	5.0	4.8	4.4	3.4	2.0
200	*****							4.6	4.5	4.3	4.1	3.8	2.9	1.7
250	*****								3.9	3.7	3.4	2.6	1.5	
300	*****									3.4	3.1	2.4	1.4	
350	*****										2.9	2.2	1.3	
400	*****											2.7	2.1	1.2
450	*****												2.0	1.1
500	*****												1.9	1.1

NOTE: FOR CORRECT USAGE OF THESE TABLES PLEASE REFER TO MICRODATA DOCUMENTATION



## Survey of Household Energy Use - February 1993

## Approximate Sampling Variability Tables for Prairies

NUMERATOR OF PERCENTAGE ( '000)	ESTIMATED PERCENTAGE													
	0.1%	1.0%	2.0%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%	35.0%	40.0%	50.0%	70.0%	90.0%
1	107.1	106.6	106.1	104.4	101.6	98.8	95.8	92.8	89.6	86.4	83.0	75.8	58.7	33.9
2	*****	75.4	75.0	73.8	71.9	69.9	67.8	65.6	63.4	61.1	58.7	53.6	41.5	24.0
3	*****	61.6	61.2	60.3	58.7	57.0	55.3	53.6	51.8	49.9	47.9	43.7	33.9	19.6
4	*****	53.3	53.0	52.2	50.8	49.4	47.9	46.4	44.8	43.2	41.5	37.9	29.3	16.9
5	*****	47.7	47.4	46.7	45.5	44.2	42.9	41.5	40.1	38.6	37.1	33.9	26.2	15.2
6	*****	43.5	43.3	42.6	41.5	40.3	39.1	37.9	36.6	35.3	33.9	30.9	24.0	13.8
7	*****	40.3	40.1	39.5	38.4	37.3	36.2	35.1	33.9	32.7	31.4	28.6	22.2	12.8
8	*****	37.7	37.5	36.9	35.9	34.9	33.9	32.8	31.7	30.5	29.3	26.8	20.7	12.0
9	*****	35.5	35.4	34.8	33.9	32.9	31.9	30.9	29.9	28.8	27.7	25.3	19.6	11.3
10	*****	33.7	33.5	33.0	32.1	31.2	30.3	29.3	28.3	27.3	26.2	24.0	18.6	10.7
11	*****	32.1	32.0	31.5	30.6	29.8	28.9	28.0	27.0	26.0	25.0	22.8	17.7	10.2
12	*****	30.8	30.6	30.1	29.3	28.5	27.7	26.8	25.9	24.9	24.0	21.9	16.9	9.8
13	*****	29.6	29.4	29.0	28.2	27.4	26.6	25.7	24.9	24.0	23.0	21.0	16.3	9.4
14	*****	28.5	28.3	27.9	27.2	26.4	25.6	24.8	24.0	23.1	22.2	20.2	15.7	9.1
15	*****	27.5	27.4	27.0	26.2	25.5	24.7	24.0	23.1	22.3	21.4	19.6	15.2	8.7
16	*****	26.7	26.5	26.1	25.4	24.7	24.0	23.2	22.4	21.6	20.7	18.9	14.7	8.5
17	*****	25.9	25.7	25.3	24.7	24.0	23.2	22.5	21.7	21.0	20.1	18.4	14.2	8.2
18	*****	25.0	24.6	24.0	23.3	22.6	21.9	21.1	20.4	19.6	18.9	17.9	13.8	8.0
19	*****	24.3	24.0	23.3	22.7	22.0	21.3	20.6	19.8	19.0	18.1	17.4	13.5	7.8
20	*****	23.7	23.4	22.7	22.1	21.4	20.7	20.0	19.3	18.6	17.9	16.9	13.1	7.6
21	*****	23.1	22.8	22.2	21.6	20.9	20.2	19.6	18.9	18.1	17.4	16.5	12.8	7.4
22	*****	22.6	22.3	21.7	21.1	20.4	19.8	19.1	18.4	17.7	17.0	16.2	12.5	7.2
23	*****	22.1	21.8	21.2	20.6	20.0	19.3	18.7	18.0	17.3	16.6	15.8	12.2	7.1
24	*****	21.7	21.3	20.7	20.2	19.6	18.9	18.3	17.6	16.9	16.2	15.5	12.0	6.9
25	*****	21.2	20.9	20.3	19.8	19.2	18.6	17.9	17.3	16.6	15.9	15.2	11.7	6.8
30	*****	19.4	19.1	18.6	18.0	17.5	16.9	16.4	15.8	15.2	14.6	13.8	10.7	6.2
35	*****	17.7	17.2	16.7	16.2	15.7	15.2	14.6	14.0	13.4	12.8	12.2	9.9	5.7
40	*****	16.5	16.1	15.6	15.2	14.7	14.2	13.7	13.1	12.5	12.0	11.4	9.3	5.4
45	*****	15.6	15.2	14.7	14.3	13.8	13.4	12.9	12.4	11.9	11.3	10.7	8.7	5.1
50	*****	14.8	14.4	14.0	13.6	13.1	12.7	12.2	11.7	11.2	10.7	10.2	8.3	4.8
55	*****	14.1	13.7	13.3	12.9	12.5	12.1	11.6	11.2	10.7	10.2	9.7	7.9	4.6
60	*****	13.5	13.1	12.8	12.4	12.0	11.6	11.2	10.7	10.3	9.8	9.3	7.6	4.4
65	*****	13.0	12.6	12.3	11.9	11.5	11.1	10.7	10.3	9.9	9.4	8.9	7.3	4.2
70	*****	12.5	12.1	11.8	11.5	11.1	10.7	10.3	9.9	9.4	8.9	8.4	7.0	4.0
75	*****	12.1	11.7	11.4	11.1	10.7	10.4	10.0	9.6	9.2	8.7	8.2	6.8	3.9
80	*****	11.7	11.4	11.0	10.7	10.4	10.0	9.7	9.3	8.9	8.5	8.0	6.6	3.8
85	*****	11.3	11.0	10.7	10.4	10.1	9.7	9.4	9.0	8.6	8.2	7.8	6.4	3.7
90	*****	10.7	10.4	10.1	9.8	9.5	9.2	8.9	8.5	8.1	7.7	7.3	6.0	3.6
95	*****	10.4	10.1	9.8	9.5	9.2	8.9	8.5	8.1	7.7	7.3	6.9	5.7	3.5
100	*****	10.2	9.9	9.6	9.3	9.0	8.6	8.3	7.9	7.5	7.1	6.7	5.5	3.4
125	*****	9.1	8.8	8.6	8.3	8.0	7.7	7.4	7.0	6.7	6.3	5.9	4.8	3.0
150	*****	8.3	8.1	7.8	7.6	7.3	7.1	6.8	6.5	6.1	5.8	5.4	4.4	2.8
200	*****	7.0	6.8	6.6	6.3	6.1	5.8	5.5	5.2	4.9	4.6	4.3	3.5	2.4
250	*****	6.2	6.1	5.9	5.7	5.5	5.2	4.9	4.6	4.3	4.0	3.7	3.0	2.1
300	*****	5.5	5.4	5.2	5.0	4.8	4.6	4.3	4.0	3.7	3.4	3.1	2.5	2.0
350	*****	5.0	4.8	4.6	4.4	4.2	4.0	3.7	3.4	3.1	2.8	2.5	2.0	1.8
400	*****	4.6	4.5	4.3	4.1	3.9	3.7	3.4	3.1	2.8	2.5	2.2	1.8	1.7
450	*****	4.2	4.1	3.9	3.7	3.4	3.1	2.8	2.5	2.2	1.9	1.6	1.3	1.6
500	*****	4.0	3.9	3.7	3.4	3.1	2.8	2.5	2.2	1.9	1.6	1.3	1.0	1.5
750	*****	2.8	2.7	2.5	2.3	2.1	1.9	1.7	1.5	1.3	1.1	0.9	0.7	1.2
1000	*****	1.9	1.8	1.6	1.4	1.2	1.0	0.9	0.8	0.7	0.6	0.5	0.4	1.1
1500	*****	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.9

NOTE: FOR CORRECT USAGE OF THESE TABLES PLEASE REFER TO MICRODATA DOCUMENTATION

## Survey of Household Energy Use - February 1993

## Approximate Sampling Variability Tables for Canada

NUMERATOR OF PERCENTAGE ( '000)	ESTIMATED PERCENTAGE													
	0.1%	1.0%	2.0%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%	35.0%	40.0%	50.0%	70.0%	90.0%
1	237.7	236.6	235.4	231.8	225.6	219.2	212.7	205.9	198.9	191.7	184.2	168.1	130.2	75.2
2	168.0	167.3	166.4	163.9	159.5	155.0	150.4	145.6	140.7	135.6	130.2	118.9	92.1	53.2
3	137.2	136.6	135.9	133.8	130.2	126.6	122.8	118.9	114.9	110.7	106.3	97.1	75.2	43.4
4	118.8	118.3	117.7	115.9	112.8	109.6	106.3	103.0	99.5	95.9	92.1	84.1	65.1	37.6
5	106.3	105.8	105.3	103.6	100.9	98.0	95.1	92.1	89.0	85.7	82.4	75.2	58.2	33.6
6	97.0	96.6	96.1	94.6	92.1	89.5	86.8	84.1	81.2	78.3	75.2	68.6	53.2	30.7
7	89.8	89.4	89.0	87.6	85.3	82.9	80.4	77.8	75.2	72.5	69.6	63.5	49.2	28.4
8	84.0	83.6	83.2	81.9	79.8	77.5	75.2	72.8	70.3	67.8	65.1	59.4	46.0	26.6
9	79.2	78.9	78.5	77.3	75.2	73.1	70.9	68.6	66.3	63.9	61.4	56.0	43.4	25.1
10	75.2	74.8	74.4	73.3	71.3	69.3	67.3	65.1	62.9	60.6	58.2	53.2	41.2	23.8
11	*****	71.3	71.0	69.9	68.0	66.1	64.1	62.1	60.0	57.8	55.5	50.7	39.3	22.7
12	*****	68.3	68.0	66.9	65.1	63.3	61.4	59.4	57.4	55.3	53.2	48.5	37.6	21.7
13	*****	65.6	65.3	64.3	62.6	60.8	59.0	57.1	55.2	53.2	51.1	46.6	36.1	20.9
14	*****	63.2	62.9	61.9	60.3	58.6	56.8	55.0	53.2	51.2	49.2	44.9	34.8	20.1
15	*****	61.1	60.8	59.8	58.2	56.6	54.9	53.2	51.4	49.5	47.6	43.4	33.6	19.4
16	*****	59.1	58.8	57.9	56.4	54.8	53.2	51.5	49.7	47.9	46.0	42.0	32.6	18.8
17	*****	57.4	57.1	56.2	54.7	53.2	51.6	49.9	48.2	46.5	44.7	40.8	31.6	18.2
18	*****	55.8	55.5	54.6	53.2	51.7	50.1	48.5	46.9	45.2	43.4	39.6	30.7	17.7
19	*****	54.3	54.0	53.2	51.8	50.3	48.8	47.2	45.6	44.0	42.3	38.6	29.9	17.3
20	*****	52.9	52.6	51.8	50.4	49.0	47.6	46.0	44.5	42.9	41.2	37.6	29.1	16.8
21	*****	51.6	51.4	50.6	49.2	47.8	46.4	44.9	43.4	41.8	40.2	36.7	28.4	16.4
22	*****	50.4	50.2	49.4	48.1	46.7	45.3	43.9	42.4	40.9	39.3	35.8	27.8	16.0
23	*****	49.3	49.1	48.3	47.0	45.7	44.3	42.9	41.5	40.0	38.4	35.1	27.2	15.7
24	*****	48.3	48.0	47.3	46.0	44.7	43.4	42.0	40.6	39.1	37.6	34.3	26.6	15.3
25	*****	47.3	47.1	46.4	45.1	43.8	42.5	41.2	39.8	38.3	36.8	33.6	26.0	15.0
30	*****	43.2	43.0	42.3	41.2	40.0	38.8	37.6	36.3	35.0	33.6	30.7	23.8	13.7
35	*****	40.0	39.8	39.2	38.1	37.1	35.9	34.8	33.6	32.4	31.1	28.4	22.0	12.7
40	*****	37.4	37.2	36.6	35.7	34.7	33.6	32.6	31.5	30.3	29.1	26.6	20.6	11.9
45	*****	35.3	35.1	34.5	33.6	32.7	31.7	30.7	29.7	28.6	27.5	25.1	19.4	11.2
50	*****	33.5	33.3	32.8	31.9	31.0	30.1	29.1	28.1	27.1	26.0	23.8	18.4	10.6
55	*****	31.9	31.7	31.2	30.4	29.6	28.7	27.8	26.8	25.8	24.8	22.7	17.6	10.1
60	*****	30.5	30.4	29.9	29.1	28.3	27.5	26.6	25.7	24.7	23.8	21.7	16.8	9.7
65	*****	29.3	29.2	28.7	28.0	27.2	26.4	25.5	24.7	23.8	22.8	20.9	16.2	9.3
70	*****	28.3	28.1	27.7	27.0	26.2	25.4	24.6	23.8	22.9	22.0	20.1	15.6	9.0
75	*****	27.3	27.2	26.8	26.0	25.3	24.6	23.8	23.0	22.1	21.3	19.4	15.0	8.7
80	*****	26.5	26.3	25.9	25.2	24.5	23.8	23.0	22.2	21.4	20.6	18.8	14.6	8.4
85	*****	25.7	25.5	25.1	24.5	23.8	23.1	22.3	21.6	20.8	20.0	18.2	14.1	8.2
90	*****	24.9	24.8	24.4	23.8	23.1	22.4	21.7	21.0	20.2	19.4	17.7	13.7	7.9
95	*****	24.3	24.2	23.8	23.1	22.5	21.8	21.1	20.4	19.7	18.9	17.3	13.4	7.7
100	*****	23.7	23.5	23.2	22.6	21.9	21.3	20.6	19.9	19.2	18.4	16.8	13.0	7.5
125	*****	*****	21.1	20.7	20.2	19.6	19.0	18.4	17.8	17.1	16.5	15.0	11.6	6.7
150	*****	*****	19.2	18.9	18.4	17.9	17.4	16.8	16.2	15.7	15.0	13.7	10.6	6.1
200	*****	*****	16.6	16.4	16.0	15.5	15.0	14.6	14.1	13.6	13.0	11.9	9.2	5.3
250	*****	*****	*****	14.7	14.3	13.9	13.5	13.0	12.6	12.1	11.6	10.6	8.2	4.8
300	*****	*****	*****	13.4	13.0	12.7	12.3	11.9	11.5	11.1	10.6	9.7	7.5	4.3
350	*****	*****	*****	12.4	12.1	11.7	11.4	11.0	10.6	10.2	9.8	9.0	7.0	4.0
400	*****	*****	*****	11.6	11.3	11.0	10.6	10.3	9.9	9.6	9.2	8.4	6.5	3.8
450	*****	*****	*****	10.9	10.6	10.3	10.0	9.7	9.4	9.0	8.7	7.9	6.1	3.5
500	*****	*****	*****	10.4	10.1	9.8	9.5	9.2	8.9	8.6	8.2	7.5	5.8	3.4
750	*****	*****	*****	*****	8.2	8.0	7.8	7.5	7.3	7.0	6.7	6.1	4.8	2.7
1000	*****	*****	*****	*****	7.1	6.9	6.7	6.5	6.3	6.1	5.8	5.3	4.1	2.4
1500	*****	*****	*****	*****	*****	5.7	5.5	5.3	5.1	4.9	4.8	4.3	3.4	1.9
2000	*****	*****	*****	*****	*****	*****	4.8	4.6	4.4	4.3	4.1	3.8	2.9	1.7
3000	*****	*****	*****	*****	*****	*****	*****	3.6	3.5	3.4	3.1	2.4	1.4	1.4
4000	*****	*****	*****	*****	*****	*****	*****	*****	2.9	2.7	2.1	1.2	1.2	1.2
5000	*****	*****	*****	*****	*****	*****	*****	*****	*****	2.4	1.8	1.1	1.1	1.1
6000	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	1.7	1.0	1.0	1.0
7000	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	1.6	0.9	0.9
8000	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	0.8	0.8
9000	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	0.8

NOTE: FOR CORRECT USAGE OF THESE TABLES PLEASE REFER TO MICRODATA DOCUMENTATION



## 11. WEIGHTING

Since the Survey of Household Energy Use used a sub-sample of the LFS sample, the derivation of weights for the survey records is clearly tied to the weighting procedure used for the LFS. The LFS weighting procedure is briefly described below.

### 11.1 Weighting Procedures for the LFS

In the LFS, the final weight attached to each record is the product of the following factors: the basic weight, the cluster sub-weight, the balancing factor for non-response, the rural-urban factor and the province-age-sex ratio adjustment factor. Each is described below.

#### Basic Weight

In a probability sample, the sample design itself determines weights which must be used to produce unbiased estimates of the population. Each record must be weighted by the inverse of the probability of selecting the person to whom the record refers. In the example of a 2% simple random sample, this probability would be .02 for each person and the records must be weighted by  $1/.02=50$ . Because all eligible individuals in a dwelling are interviewed (directly or by proxy), this probability is essentially the same as the probability with which the dwelling is selected.

#### Cluster Sub-weight

The cluster delineation is such that the number of dwellings in the sample increases very slightly with moderate growth in the housing stock. Substantial growth can be tolerated in an isolated cluster before the additional sample represents a field collection problem. However, if growth takes place in more than one cluster in an interviewer assignment, the cumulative effect of all increases may create a workload problem. In clusters where substantial growth has taken place, sub-sampling is used as a means of keeping interviewer assignments manageable. The cluster sub-weight represents the inverse of this sub-sampling ratio in clusters where sub-sampling has occurred.

#### Non-response

Notwithstanding the strict controls of the LFS, some non-response is inevitable, despite all the attempts made by the interviewers. The LFS non-response rate is approximately 5%. For certain types of non-response (eg. household temporarily absent, refusal), data from a previous month's interview with the household if any, is brought forward and used as the current month's data for the household.

In other cases, non-response is compensated for by proportionally increasing the weights of responding households. The weight of each responding record is increased

by the ratio of the number of households that should have been interviewed, divided by the number that were actually interviewed. This adjustment is done separately for geographic areas called balancing units. It is based on the assumption that the households that have been interviewed represent the characteristics of those that should have been interviewed. To the extent that this assumption is not true, the estimates will be somewhat biased.

#### Rural-urban Factor

In NSRUs without sufficient rural and urban population for explicit urban and rural strata to be formed, each primary sampling unit (PSU) is composed of both urban and rural parts. Information concerning the total population in rural and urban areas is available from the 1981 Census for each PSU as well as for each economic region (ER) in which explicit urban/rural stratification is not done. Comparison by ER with the actual 1981 rural or urban census counts indicates whether the selected PSUs over- or under-represent the respective areas. The ratio of actual rural-urban counts is divided by the corresponding estimates. These two factors are computed for each relevant ER at the time of selection of the PSUs and are entered on each sample record according to the appropriate area (rural or urban) of the NSRU. Changes in these factors are incorporated at the time of PSU rotations.

#### LFS Sub-Weight

The product of the previously described weighting factors is called the LFS sub-weight. All members of the same sampled dwelling have the same sub-weight.

#### Subprovincial and Province-Age-Sex Adjustments

The sub-weight can be used to derive a valid estimate of any characteristic for which information is collected by the LFS. In particular, estimates are produced of the total number of persons aged 15 and over in provincial economic regions and the 24 large metropolitan areas as well as of designated age-sex groups in each of the ten provinces.

Independent estimates are available monthly for various age and sex groups by province. These are population projections based on the most recent Census data, records of births and deaths, and estimates of migration. In the final step, this auxiliary information is used to transform the sub-weight into the final weight. This is done using a linear regression model. The regression is set up to ensure that the final weights it produces sum to the census projections for the auxiliary variables, namely various age-sex groups, economic regions and census metropolitan areas.

This weighting procedure ensures consistency with external Census counts, and also ensures that every member of the economic family is assigned the same weight.

### 11.2 Weighting Procedures for the SHEU



The principles behind the calculation of the weights for the SHEU are identical to those for the LFS. However, further adjustments are made to the LFS weights in order to derive a final weight for the individual records on the SHEU microdata file.

- (1) An adjustment to account for the additional non-response to the supplementary survey i.e., non-response to the SHEU for households which did respond to the LFS or for which previous month's LFS data was brought forward.
- (2) A readjustment to account for independent projections by type of dwelling at the province level, after the above adjustment has been made. This readjustment also implicitly corrects for the fact that a sub-sample of the full LFS sample was used.

Adjustment (1) is taken into account by multiplying the LFS sub-weight for each responding SHEU record by:

$$\frac{\text{sum of LFS subweights from each household eligible to the SHEU}}{\text{sum of LFS subweights from each household responding to the SHEU}}$$

to obtain a non-response adjusted SHEU sub-weight (WEIGHT1).

Adjustment (2) is calculated by multiplying WEIGHT1 for each SHEU responding household by :

$$\frac{\text{number of dwellings for province-type } i}{\text{sum of WEIGHT1 for responding dwellings in province-type } i}$$

In practice, types of dwelling were combined as follows for adjustment (2): single detached (type=1), apartments (type=5 or 6) and other (type=2,3,4 or 9), except in Newfoundland where only two categories were used: single detached and other (including apartment).

The resulting weight is the final weight which appears on the SHEU microdata file.



12. RECORD LAYOUT AND UNIVARIATES





FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED	
1	SEQNUM	5	0001-0005	SEQUENCE NUMBER		
2	DATE	4	0006-0009	SURVEY DATE (0293)		
NOTE: DATA IN FIELDS 3-34 ARE FROM THE LABOUR FORCE SURVEY FORM 03 AND FORM 05						
3	PROV	1	0010	PROVINCE		
				0 NEWFOUNDLAND	837/	186070
				1 PRINCE EDWARD ISLAND	732/	45736
				2 NOVA SCOTIA	1518/	336080
				3 NEW BRUNSWICK	1235/	260915
				4 QUEBEC	720/	2710836
				5 ONTARIO	1407/	3810478
				6 MANITOBA	1476/	402524
				7 SASKATCHEWAN	1704/	368270
				8 ALBERTA	674/	934816
				9 BRITISH COLUMBIA	679/	1303492
4	AREA	1	0011	SIZE OF AREA OF RESIDENCE		
				1 URBAN AREA, POPULATION 500,000 OR OVER	1277/	4713027
				2 URBAN AREA, POPULATION 100,000 TO 499,999	1895/	1549168
				3 URBAN AREA, POPULATION 30,000 TO 99,999	1016/	982786
				4 URBAN AREA, POPULATION 15,000 TO 29,999	1521/	422365
				5 URBAN AREA, POPULATION LESS THAN 15,000	1263/	1136184
				6 RURAL AREA	4010/	1555687
5	WEIGHT	9	0012-0020	WEIGHT * 10,000		
				NOTE: WEIGHT=WEIGHT*10,000 WHEN USED, THE WEIGHT SHOULD BE DIVIDED BY 10,000 (4 DECIMAL PLACES)		
6	DWELLING	1	0021	TYPE OF DWELLING		
				1 SINGLE DETACHED	7695/	5823176
				2 DOUBLE	362/	460305
				3 ROW OR TERRACE	375/	489576
				4 DUPLEX	335/	328896
				5 APARTMENT, FLAT (LESS THAN 5 STORIES)	1394/	2073859
				6 HIGH-RISE APARTMENT (5 STORIES OR MORE)	366/	936434
				9 MOBILE HOME	455/	246970
				NOTE: CODES 7,8 ARE EXCLUDED FROM THE SUPPLEMENT (INSTITUTIONS, HOTELS, CAMPS ETC.)		
7	TENURE	1	0022	OWNER/RENTER		
				1 OWNER	7962/	6554941
				2 RENTER	3010/	3778214
				9 NOT STATED	10/	26062
8	HHSIZE	2	0023-0024	NUMBER OF HOUSEHOLD MEMBERS		
				1:99	10982/	10359217
9	EMPLOYED	2	0025-0026	NUMBER OF EMPLOYED HOUSEHOLD MEMBERS		
				0:99	10982/	10359217
10	AGELT15	2	0027-0028	NUMBER OF HOUSEHOLD MEMBERS LESS THAN 15 YEARS OF AGE		
				0:99	10982/	10359217

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
11	ADULTS	1	0029	NUMBER OF HOUSEHOLD MEMBERS AGE 15 OR MORE  1:9	10982/10359217
12	AGE1T02	2	0030-0031	NUMBER OF CHILDREN LESS THAN 2 YEARS OF AGE  0:99	10982/10359217
13	AGE25	2	0032-0033	NUMBER OF CHILDREN FROM 2 TO 5 YEARS OF AGE  0:99	10982/10359217
14	AGE614	2	0034-0035	NUMBER OF CHILDREN FROM 6 TO 14 YEARS OF AGE  0:99	10982/10359217
15	AGE1519	2	0036-0037	NUMBER OF HOUSEHOLD MEMBERS FROM 15 TO 19 YEARS OF AGE  0:99	10982/10359217
16	HHLDTYPE	1	0038	HOUSEHOLD COMPOSITION  1 ONE UNATTACHED INDIVIDUAL 2 ONE FAMILY 3 MULTI UNIT HHLD: ONLY UNATTACHED INDIVIDUALS 4 MULTI UNIT HHLD: AT LEAST ONE FAMILY	2371/ 2406034 8230/ 7521537 231/ 246019 150/ 185627

## NOTE:

FIELDS 17-34  
SOCIO-DEMOGRAPHIC CHARACTERISTICS OF UP TO THREE  
HOUSEHOLD MEMBERS, AGE 15+

17	AGE01	2	0039-0040	AGE OF 1ST MEMBER  01 15-19 02 20-24 03 25-29 04 30-34 05 35-39 06 40-44 07 45-49 08 50-54 09 55-59 10 60-64 11 65-69 12 70-99	47/ 54817 438/ 367484 1008/ 1098075 1267/ 1313777 1356/ 1281237 1210/ 1074993 991/ 974511 812/ 858014 690/ 649165 738/ 706831 742/ 684377 1683/ 1295936
18	SEX01	1	0041	SEX OF 1ST MEMBER  1 MALE 2 FEMALE	7794/ 6863005 3188/ 3496212
19	MARST01	1	0042	MARITAL STATUS OF 1ST MEMBER  1 NOW MARRIED OR COMMON-LAW 2 SINGLE NEVER MARRIED 3 OTHER	7367/ 6627053 1340/ 1566386 2275/ 2165778

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
204	Q119	1	0273	IS YOUR GARAGE ATTACHED TO YOUR HOUSE?	
				NOT APPLICABLE	10167/ 9522505
				1 YES	341/ 496926
				2 NO	289/ 231347
				9 NOT STATED	185/ 108438
205	Q120	1	0274	IS YOUR GARAGE UNDER A HEATED ROOM?	
				NOT APPLICABLE	10456/ 9753852
				1 YES	105/ 207178
				2 NO	234/ 287628
				9 NOT STATED	187/ 110559
206	Q121	1	0275	DOES IT HAVE AN INSULATED DOOR?	
				NOT APPLICABLE	10456/ 9753852
				1 YES	160/ 253130
				2 NO	171/ 237701
				3 DON'T KNOW	7/ 3773
				9 NOT STATED	188/ 110761
207	Q122	1	0276	DO YOU HAVE AN ATTIC?	
				NOT APPLICABLE	1975/ 3224052
				1 A FINISHED ATTIC	209/ 144515
				2 AN UNFINISHED ATTIC	3046/ 2273906
				3 A CRAWL SPACE (NOT ENOUGH ROOM TO STAND)	3727/ 2631489
				4 NO ATTIC	1600/ 1753944
				5 DON'T KNOW	118/ 120894
				9 NOT STATED	307/ 210417
208	Q123	1	0277	DO YOU HAVE A HEATED SOLARIUM OR SUNROOM?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	202/ 203913
				2 NO	8469/ 6704866
				9 NOT STATED	336/ 226386
209	Q124A	1	0278	DO YOU HAVE ANY WOOD DOORS THAT LEAD TO OUTSIDE OR UNHEATED AREAS?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	6030/ 4897982
				2 NO	2569/ 1948095
				9 NOT STATED	408/ 289087
210	Q124A1	1	0279	HOW MANY WOOD DOORS WITH STORM DOORS?	
				NOT APPLICABLE	4544/ 5172147
				0:8	5980/ 4831293
				9 NOT STATED	458/ 355777
211	Q124A2	1	0280	HOW MANY WOOD DOORS WITHOUT STORM DOORS?	
				NOT APPLICABLE	4544/ 5172147
				0:6	5988/ 4840008
				9 NOT STATED	450/ 347062
212	Q124B	1	0281	DO YOU HAVE ANY METAL DOORS THAT LEAD TO OUTSIDE OR UNHEATED AREAS?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	4674/ 3483703
				2 NO	3959/ 3357615
				9 NOT STATED	374/ 293847

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
213	Q124B1	2	0282-0283	HOW MANY METAL DOORS WITH STORM DOORS?  NOT APPLICABLE 00:08 99 NOT STATED	5934/ 6581667 4607/ 3435290 441/ 342259
214	Q124B2	2	0284-0285	HOW MANY METAL DOORS WITHOUT STORM DOORS?  NOT APPLICABLE 00:10 99 NOT STATED	5934/ 6581667 4606/ 3434780 442/ 342770
215	Q124C	1	0286	DO YOU HAVE ANY PATIO DOORS THAT LEAD TO OUTSIDE OR UNHEATED AREAS?  NOT APPLICABLE 1 YES 2 NO 9 NOT STATED	1975/ 3224052 2366/ 2923426 6085/ 3799713 556/ 412025
216	Q124C1	2	0287-0288	HOW MANY PATIO DOORS?  NOT APPLICABLE 00:06 99 NOT STATED	8060/ 7023766 2343/ 2898821 579/ 436631
217	Q124D	1	0289	DO YOU HAVE ANY OTHER EXTERIOR DOORS THAT LEAD TO OUTSIDE OR UNHEATED AREAS?  NOT APPLICABLE 1 YES 2 NO 9 NOT STATED	1975/ 3224052 352/ 372552 7985/ 6197169 670/ 565443
218	Q124D1	2	0290-0291	HOW MANY OTHER EXTERIOR DOORS?  NOT APPLICABLE 00:04 99 NOT STATED	9960/ 9421222 336/ 350874 686/ 587121
219	Q125	1	0292	DO YOU FEEL THERE ARE ANY AIR LEAKS OR DRAFTS AROUND YOUR DOORS?  NOT APPLICABLE 1 YES 2 NO 3 DON'T KNOW 9 NOT STATED	1975/ 3224052 4400/ 3255402 4254/ 3624434 76/ 72799 277/ 182530
220	Q125A	1	0293	DO THEY ALL LEAK?  NOT APPLICABLE 1 YES 2 NO 9 NOT STATED	6305/ 6921285 2145/ 1491211 2100/ 1599881 432/ 346840
221	Q126	1	0294	WERE ANY OF YOUR EXTERIOR DOORS REPLACED?  NOT APPLICABLE 1 YES 2 NO 3 DON'T KNOW 9 NOT STATED	1975/ 3224052 3040/ 2177900 5454/ 4618083 240/ 176919 273/ 162262



FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
222	Q126A	1	0295	WHEN WERE THE EXTERIOR DOORS REPLACED?	
				NOT APPLICABLE	7669/ 8019055
				1 '77 OR EARLIER	161/ 139410
				2 '78-'83	451/ 325989
				3 '84 OR LATER	2342/ 1649599
				4 DON'T KNOW	57/ 46353
				9 NOT STATED	302/ 178813
223	Q127	1	0296	HAVE ANY IMPROVEMENTS BEEN MADE TO THE WEATHERSTRIPPING OR CAULKING OF THE DOORS?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	4344/ 3502369
				2 NO	4144/ 3275725
				3 DON'T KNOW	248/ 192632
				9 NOT STATED	271/ 164438
224	Q127A	1	0297	WHEN WERE THE IMPROVEMENTS MADE?	
				NOT APPLICABLE	6367/ 6692410
				1 '77 OR EARLIER	86/ 82978
				2 '78-'83	275/ 267076
				3 '84 OR LATER	3551/ 2800961
				4 DON'T KNOW	317/ 270044
				9 NOT STATED	386/ 245748
225	Q127B	1	0298	WAS IT DONE BY A PROFESSIONAL?	
				NOT APPLICABLE	6367/ 6692410
				1 YES	943/ 795229
				2 NO	2658/ 2017150
				3 DON'T KNOW	68/ 77398
				9 NOT STATED	946/ 777030
226	Q128	1	0299	DO YOU HAVE ANY SKYLIGHTS? (WINDDWS IN THE ROOF)	
				NOT APPLICABLE	1975/ 3224052
				1 YES	418/ 580923
				2 YES, BUT NUMBER OF PANES NOT KNOWN	5/ 4495
				3 NO	8278/ 6358072
				9 NOT STATED	306/ 191675
227	Q128A1	1	0300	HOW MANY SKYLIGHTS ARE TRIPLE PANE?	
				NOT APPLICABLE	10253/ 9582124
				0:6	316/ 496673
				9 NOT STATED	413/ 280420
228	Q128A2	1	0301	HOW MANY SKYLIGHTS ARE DOUBLE PANE?	
				NOT APPLICABLE	10253/ 9582124
				0:8	316/ 496673
				9 NOT STATED	413/ 280420
229	Q128A3	1	0302	HOW MANY SKYLIGHTS ARE SINGLE PANE?	
				NOT APPLICABLE	10253/ 9582124
				0:7	316/ 496673
				9 NOT STATED	413/ 280420
230	Q129A	1	0303	IN THE HEATED PART OF YOUR HOUSE, DO YOU HAVE ANY TRIPLE PANE WINDOWS?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	1382/ 793526
				2 NO	6918/ 5783775
				9 NOT STATED	707/ 557864

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
231	Q129A1	2	0304-0305	HOW MANY ARE TRIPLE PANE PICTURE (OVERSIZED) WINDOWS?  NOT APPLICABLE 00:20 99 NOT STATED	8893/ 9007827 1382/ 793526 707/ 557864
232	Q129A2	2	0306-0307	HOW MANY ARE TRIPLE PANE OTHER SIZE WINDOWS?  NOT APPLICABLE 00:32 99 NOT STATED	8893/ 9007827 1382/ 793526 707/ 557864
233	Q129B	1	0308	IN THE HEATED PART OF YOUR HOUSE, DO YOU HAVE ANY DOUBLE PANE WINDOWS?  NOT APPLICABLE 1 YES 2 NO 9 NOT STATED	1975/ 3224052 7004/ 5468432 1661/ 1434131 342/ 232602
234	Q129B1	2	0309-0310	HOW MANY ARE DOUBLE PANE PICTURE (OVERSIZED) WINDOWS?  NOT APPLICABLE 00:61 99 NOT STATED	3634/ 4657142 7006/ 5469473 342/ 232602
235	Q129B2	2	0311-0312	HOW MANY ARE DDUBLE PANE OTHER SIZE WINDOWS?  NOT APPLICABLE 00:60 99 NOT STATED	3634/ 4657142 7006/ 5469473 342/ 232602
236	Q129C	1	0313	IN THE HEATED PART OF YOUR HOUSE, DO YOU HAVE ANY SINGLE PANE WINDOWS WITH STORM WINDOWS?  NOT APPLICABLE 1 YES 2 NO 9 NOT STATED	1975/ 3224052 2965/ 2335247 5618/ 4415479 424/ 384439
237	Q129C1	2	0314-0315	HOW MANY ARE SINGLE PANE PICTURE(OVERSIZED) WINDOWS WITH STORM WINDOWS?  NOT APPLICABLE 00:40 99 NOT STATED	7593/ 7639531 2965/ 2335247 424/ 384439
238	Q129C2	2	0316-0317	HOW MANY ARE SINGLE PANE OTHER SIZE WINDOWS WITH STORM WINDOWS?  NOT APPLICABLE 00:72 99 NOT STATED	7593/ 7639531 2965/ 2335247 424/ 384439
239	Q129D	1	0318	IN THE HEATED PART OF YOUR HOUSE, DO YOU HAVE ANY SINGLE PANE WINDOWS WITHOUT STORM WINDOWS?  NOT APPLICABLE 1 YES 2 NO 9 NOT STATED	1975/ 3224052 1168/ 1128192 7448/ 5664215 391/ 342758
240	Q129D1	2	0319-0320	HOW MANY ARE SINGLE PANE PICTURE(OVERSIZED) WINDOWS WITHOUT STORM WINDOWS?  NOT APPLICABLE 00:25 99 NOT STATED	9423/ 888826 1168/ 1128192 391/ 342758

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
241	Q129D2	2	0321-0322	HOW MANY ARE SINGLE PANE OTHER SIZE WINDOWS WITHOUT STORM WINDOWS?	
				NOT APPLICABLE	9423/ 8888267
				00:54	1168/ 1128192
				99 NOT STATED	391/ 342758
242	Q130	1	0323	EXCLUDING STORM WINDOWS, WHAT ARE MOST OF YOUR WINDOW FRAMES MADE OF?	
				NOT APPLICABLE	1975/ 3224052
				1 METAL (ALUMINUM/STEEL)	1362/ 1836126
				2 WOOD	6146/ 4211359
				3 FIBRE GLASS/VINYL (PVC)	1122/ 820815
				4 OTHER	26/ 18169
				5 DON'T KNOW	56/ 57664
				9 NOT STATED	295/ 191032
243	Q131	1	0324	DO YOU FEEL THERE ARE ANY AIR LEAKS OR DRAFTS AROUND YOUR WINDOWS?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	3309/ 2546026
				2 NO	5364/ 4374616
				3 DON'T KNOW	56/ 46180
				9 NOT STATED	278/ 168342
244	Q131A	1	0325	DO ALL OF THE WINDOWS LEAK?	
				NOT APPLICABLE	7395/ 7644849
				1 YES	1356/ 1057465
				2 NO	1838/ 1348014
				9 NOT STATED	393/ 308889
245	Q132	1	0326	HAVE ANY OF YOUR WINDOWS BEEN REPLACED?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	3151/ 2489638
				2 NO	5368/ 4326409
				3 DON'T KNOW	203/ 132984
				9 NOT STATED	285/ 186133
246	Q132A	1	0327	WHEN WERE ANY OF YOUR WINDOWS REPLACED?	
				NOT APPLICABLE	7545/ 7682472
				1 '77 OR EARLIER	224/ 177762
				2 '78-'83	493/ 342808
				3 '84 OR LATER	2344/ 1857209
				4 DON'T KNOW	55/ 68566
				9 NOT STATED	321/ 230399
247	Q133	1	0328	HAVE ANY IMPROVEMENTS BEEN MADE TO THE CAULKING OR WEATHERSTRIPPING OF THE WINDOWS?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	3308/ 2744763
				2 NO	5172/ 4009949
				3 DON'T KNOW	215/ 175884
				9 NOT STATED	312/ 204569
248	Q133A	1	0329	WHEN WERE THE IMPROVEMENTS MADE?	
				NOT APPLICABLE	7362/ 7409885
				1 '77 OR EARLIER	68/ 67344
				2 '78-'83	213/ 189275
				3 '84 OR LATER	2871/ 2349518
				4 DON'T KNOW	85/ 103801
				9 NOT STATED	383/ 239394

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
249	Q133B	1	0330	WAS IT DONE BY A PROFESSIONAL?	
				NOT APPLICABLE	7362/ 7409885
				1 YES	805/ 753473
				2 NO	1803/ 1371562
				3 DON'T KNOW	42/ 45626
				9 NOT STATED	970/ 778672
250	Q134	1	0331	DO YOU HAVE A CENTRAL VENTILATION SYSTEM (AIR EXCHANGER)?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	873/ 693016
				2 NO	7771/ 6168293
				3 DON'T KNOW	84/ 97569
				9 NOT STATED	279/ 176287
251	Q134A	1	0332	DOES IT HAVE HEAT RECOVERY? (HEAT EXCHANGER)	
				NOT APPLICABLE	9830/ 9489914
				1 YES	302/ 193720
				2 NO	417/ 344142
				3 DON'T KNOW	94/ 95688
				9 NOT STATED	339/ 235752
252	Q134B	1	0333	WHEN IS IT USED?	
				NOT APPLICABLE	9830/ 9489914
				1 ALL YEAR	485/ 334800
				2 WINTER ONLY	139/ 111639
				3 SUMMER ONLY	62/ 54986
				4 OCCASIONALLY	86/ 84321
				5 NEVER	13/ 6415
				9 NOT STATED	367/ 27714
253	Q135A	1	0334	DO YOU USE A CENTRAL VACUUM CLEANER?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	1362/ 1346002
				2 NO	7296/ 5552061
				3 DON'T KNOW	8/ 13806
				9 NOT STATED	341/ 223295
254	Q135B	1	0335	DO YOU USE A SUMP PUMP?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	1481/ 1022481
				2 NO	7139/ 5837358
				3 DON'T KNOW	38/ 27488
				9 NOT STATED	349/ 247837
255	Q135C	1	0336	DO YOU USE A WATER SOFTENER?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	1270/ 748489
				2 NO	7374/ 6122549
				3 DON'T KNOW	14/ 17977
				9 NOT STATED	349/ 246149
256	Q136	1	0337	DO YOU HAVE A SWIMMING POOL SOLELY FOR THE USE OF YOUR HOUSEHOLD? (EXCLUDE CHILDREN'S WADING POOL).	
				NOT APPLICABLE	1975/ 3224052
				1 YES	318/ 701902
				2 NO	8504/ 6324824
				9 NOT STATED	185/ 108438



FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
257	Q137	1	0338	DO YOU USE A POOL HEATER?	
				NOT APPLICABLE	10479/ 9548876
				1 YES	75/ 150859
				2 NO	243/ 551044
				9 NOT STATED	185/ 108438
258	Q138	1	0339	WHAT KIND OF POOL HEATER DO YOU USE?	
				NOT APPLICABLE	10722/10099920
				1 OIL HEATER	6/ 7615
				2 GAS HEATER	22/ 30343
				3 PROPANE HEATER	6/ 7058
				4 ELECTRIC HEATER	17/ 43861
				5 POOL HEAT PUMP	15/ 46206
				6 SOLAR PANEL	6/ 3754
				7 DON'T KNOW	3/ 12021
				9 NOT STATED	185/ 108438
259	Q139	1	0340	DO YOU USE A TIMER WITH YOUR POOL HEATER?	
				NOT APPLICABLE	10722/10099920
				1 YES	21/ 30415
				2 NO	53/ 118027
				9 NOT STATED	186/ 110855
260	Q140	1	0341	DO YOU USE A SOLAR BLANKET?	
				NOT APPLICABLE	10722/10099920
				1 YES	63/ 130201
				2 NO	11/ 18241
				9 NOT STATED	186/ 110855
261	Q141	1	0342	DO YOU HAVE A HOT TUB/JACUZZI/WHIRLPOOL?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	606/ 711387
				2 NO	8116/ 6227975
				9 NOT STATED	285/ 195803
262	Q141A	1	0343	HOW MANY HOT TUB/JACUZZI/WHIRLPOOLS INDOOR?	
				NOT APPLICABLE	10091/ 9452027
				0:4	606/ 711387
				9 NOT STATED	285/ 195803
263	Q141B	1	0344	HOW MANY HOT TUB/JACUZZI/WHIRLPOOLS OUTDOOR?	
				NOT APPLICABLE	10091/ 9452027
				0:1	606/ 711387
				9 NOT STATED	285/ 195803
264	Q142	1	0345	DO YOU HAVE A SAUNA?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	55/ 76145
				2 NO	8622/ 6830544
				9 NOT STATED	330/ 228475

NOTE: END OF HOUSE SECTION, HOUSES GO TO Q161

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 A P A R T M E N T S E C T I O N Q143 - Q160
 

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FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
265	Q143	2	0346-0347	APPROXIMATELY, WHAT IS THE TOTAL HEATED LIVING AREA OF YOUR APARTMENT (SQUARE FEET)?	
			NOT APPLICABLE		9007/ 7135165
			01 LESS THAN 600 SQ. FT.		639/ 943012
			02 601-1000		695/ 1033546
			03 1001-1500		191/ 495854
			04 1501-2000		33/ 78437
			05 2001-2500		8/ 13364
			06 2501 SQ. FT. OR MORE		10/ 31103
			10 RESPONDED TO NUMBER OF HEATED ROOMS (Q143A)		275/ 427464
			11 DON'T KNOW		64/ 105319
			99 NOT STATED		60/ 95953
266	Q143A	2	0348-0349	TOTAL NUMBER OF HEATED ROOMS (APT.) EXCLUDING BATHROOMS. (IF SQUARE FOOTAGE NOT AVAILABLE)	
			NOT APPLICABLE		10647/ 9835800
			01:09		275/ 427464
			99 NOT STATED		60/ 95953
267	Q144	1	0350	WHAT IS THE HEATING EQUIPMENT THAT HEATS MOST OF YOUR APARTMENT?	
			NOT APPLICABLE		9007/ 7135165
			1 HOT AIR VENTS		298/ 562595
			2 HOT WATER RADIATORS		766/ 1028535
			3 WOOD STOVE		7/ 2065
			4 ELECTRIC BASEBOARDS		792/ 1416052
			5 ELECTRIC RADIANT HEATING		32/ 67657
			6 OTHER		38/ 84712
			9 NOT STATED		42/ 62436
268	Q145A0V	1	0351	FUEL USED BY PRIMARY HEATING SYSTEM? (INCLUDES ELECTRIC BASEBOARDS AND RADIANT HEATERS FROM Q144)	
			NOT APPLICABLE		9007/ 7135165
			1 ELECTRICITY		903/ 1671740
			2 NATURAL GAS		576/ 947656
			3 OIL		311/ 188743
			4 WOOD		8/ 2518
			5 PROPANE		6/ 3274
			6 COAL		0/ 0
			7 OTHER		4/ 602
			8 DON'T KNOW		113/ 348957
			9 NOT STATED		54/ 60564
			NOTE: DERIVED FROM Q144 AND Q145A. IF TWO FUELS USED, THE SECOND IS INDICATED IN Q145B.		
269	Q145B	1	0352	SECONDARY FUEL USED BY THE PRIMARY HEATING SYSTEM?	
			NOT APPLICABLE		10865/10198698
			2 NATURAL GAS		3/ 11961
			3 OIL		2/ 4553
			4 WOOD		10/ 1200
			5 PROPANE		0/ 0
			6 COAL		1/ 348
			7 OTHER		2/ 173
			9 NOT STATED		99/ 142283
270	Q146	1	0353	DO YOU HAVE CONTROL OVER THE TEMPERATURE IN YOUR APARTMENT?	
			NOT APPLICABLE		9007/ 7135165
			1 YES		1550/ 221675
			2 NO		272/ 76513
			3 DON'T KNOW		3/ 10283
			9 NOT STATED		150/ 231874

FIELD	ACRDNYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED	
271	Q147A	2	0354-0355	AT WHAT TEMPERATURE DO YOU USUALLY MAINTAIN YOUR APARTMENT DURING THE HEATING SEASON DURING THE DAYTIME (6AM-6PM)		
				NOT APPLICABLE	9282/	7910585
				01 16C (61F) OR LESS	244/	340203
				02 17C (62-63F)	50/	87858
				03 18C (64-65F)	161/	300510
				04 19C (66-67F)	68/	104859
				05 20C (68-69F)	421/	541886
				06 21C (70-71F)	379/	503243
				07 22C (72F)	170/	212406
				08 23C (73-74F)	50/	82492
				09 24C (75F) OR MORE	101/	162091
				10 DON'T KNOW	34/	68785
				99 NOT STATED	22/	44299
272	Q147B	2	0356-0357	AT WHAT TEMPERATURE DO YOU USUALLY MAINTAIN YOUR APARTMENT DURING THE HEATING SEASON DURING THE EVENING (6PM-10PM)		
				NOT APPLICABLE	9282/	7910585
				01 16C (61F) OR LESS	126/	163940
				02 17C (62-63F)	37/	86071
				03 18C (64-65F)	125/	237157
				04 19C (66-67F)	70/	117537
				05 20C (68-69F)	456/	635981
				06 21C (70-71F)	418/	543256
				07 22C (72F)	211/	276506
				08 23C (73-74F)	63/	96098
				09 24C (75F) OR MORE	132/	184004
				10 DON'T KNOW	36/	69982
				99 NOT STATED	26/	38098
273	Q147C	2	0358-0359	AT WHAT TEMPERATURE DO YOU USUALLY MAINTAIN YOUR APARTMENT DURING THE HEATING SEASON OVER NIGHT (10PM-6AM)		
				NOT APPLICABLE	9282/	7910585
				01 16C (61F) OR LESS	359/	456843
				02 17C (62-63F)	74/	128454
				03 18C (64-65F)	258/	371719
				04 19C (66-67F)	104/	156379
				05 20C (68-69F)	363/	518539
				06 21C (70-71F)	251/	346982
				07 22C (72F)	110/	160455
				08 23C (73-74F)	36/	88821
				09 24C (75F) OR MORE	83/	126267
				10 DON'T KNOW	36/	71296
				99 NOT STATED	26/	22878
274	Q148	1	0360	DO YOU HAVE A WOODBURNING FIREPLACE IN YOUR APARTMENT?		
				NOT APPLICABLE	9007/	7135165
				1 YES	71/	130443
				2 NO	1904/	3093610
275	Q148A	1	0361	HOW MANY WOODBURNING FIREPLACES IN YOUR APARTMENT?		
				NOT APPLICABLE	10911/	10228774
				1:2	70/	129792
				9 NOT STATED	1/	651

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
276	Q149	1	0362	DOES IT HAVE GLASS DOORS?	
				NOT APPLICABLE	10911/10228774
				1 YES	10/ 44521
				2 NO	57/ 80375
				3 DON'T KNOW	0/ 0
				9 NOT STATED	4/ 5547
				NOTE: IF MORE THAN ONE, Q149-Q152 REFER TO THE ONE USED MOST OFTEN.	
277	Q150	1	0363	DOES IT HAVE A FIREPLACE INSERT?	
				NOT APPLICABLE	10911/10228774
				1 YES	9/ 17643
				2 NO	55/ 109519
				3 DON'T KNOW	6/ 3124
				9 NOT STATED	1/ 157
278	Q151	1	0364	HOW OLD IS IT?	
				NOT APPLICABLE	10911/10228774
				1 0-5 YEARS	4/ 15027
				2 6-10 YEARS	12/ 33976
				3 11 YEARS OR MORE	38/ 60301
				4 DON'T KNOW	17/ 21138
279	Q152	1	0365	ABOUT HOW OFTEN DO YOU USE THE FIREPLACE DURING THE HEATING SEASON?	
				NOT APPLICABLE	10911/10228774
				1 NEVER	17/ 34023
				2 NOT EVERY WEEK	32/ 41701
				3 1-3 TIMES PER WEEK	15/ 2589
				4 MORE THAN 3 TIMES PER WEEK	5/ 2684
				5 DON'T KNOW	1/ 1820
				9 NOT STATED	1/ 157
280	Q153	1	0366	DO YOU HAVE A GAS BURNING FIREPLACE IN YOUR APARTMENT?	
				NOT APPLICABLE	9007/ 7135165
				1 YES	8/ 25154
				2 NO	1938/ 3176654
				9 NOT STATED	29/ 22244
281	Q153A	1	0367	HOW MANY GAS BURNING FIREPLACES IN YOUR APARTMENT?	
				NOT APPLICABLE	10943/10310299
				1	8/ 25154
				9 NOT STATED	31/ 23765
282	Q154A	1	0368	DO YOU USE A SUPPLEMENTARY HEATING WOOD STOVE?	
				NOT APPLICABLE	9007/ 7135165
				1 YES	17/ 30616
				2 NO	1813/ 2960035
				3 DON'T KNOW	4/ 14719
				9 NOT STATED	141/ 218683
283	Q154A1	1	0369	HOW OLD IS THE SUPPLEMENTARY HEATING WOOD STOVE?	
				NOT APPLICABLE	10824/10109918
				1 0-5 YEARS	7/ 17587
				2 6-10 YEARS	2/ 1911
				3 11 YEARS OR MORE	2/ 843P
				4 DON'T KNOW	1/ 17
				9 NOT STATED	146/ 22122



FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
284	Q154A2	1	0370	ON AVERAGE, HOW OFTEN DO YOU USE YOUR SUPPL. WOOD STOVE DURING THE HEATING SEASON?	
				NOT APPLICABLE	10824/10109918
				1 MORE THAN 4 HOURS PER DAY	7/ 23080
				2 BETWEEN 1 AND 4 HOURS PER DAY	4/ 3326
				3 LESS THAN 1 HR PER DAY, MORE THAN 1 HR PER WEEK	1/ 1668
				4 LESS THAN 1 HR PER WEEK	0/ 0
				9 NOT STATED	146/ 221224
285	Q154B	1	0371	DO YOU USE SUPPLEMENTARY ELECTRIC BASEBOARD(S)?	
				NOT APPLICABLE	9007/ 7135165
				1 YES	54/ 133363
				2 NO	1588/ 2605203
				3 DON'T KNOW	3/ 24167
				9 NOT STATED	330/ 461320
286	Q154C	1	0372	DO YOU USE SUPPLEMENTARY PORTABLE HEATER(S)?	
				NOT APPLICABLE	9007/ 7135165
				1 YES	102/ 248294
				2 NO	1724/ 2770857
				3 DON'T KNOW	2/ 1869
				9 NOT STATED	147/ 203032
287	Q154CI	1	0373	WHAT FUEL DOES THE SUPPLEMENTARY PORTABLE HEATER USE?	
				NOT APPLICABLE	10733/ 9907890
				1 ELECTRICITY	88/ 227194
				2 NATURAL GAS	0/ 0
				3 OIL	1/ 1922
				4 OTHER FUEL	3/ 1159
				9 NOT STATED	157/ 221052
288	Q154D	1	0374	DO YOU USE OTHER SUPPLEMENTARY HEATING?	
				NOT APPLICABLE	9007/ 7135165
				1 YES	20/ 25176
				2 NO	1801/ 2975557
				3 DON'T KNOW	2/ 2054
				9 NOT STATED	152/ 221265
289	Q154D1	1	0375	WHAT FUEL DOES THE OTHER SUPPLEMENTARY HEATER USE?	
				NOT APPLICABLE	10810/10112775
				1 ELECTRICITY	8/ 3892
				2 NATURAL GAS	4/ 3585
				3 OIL	0/ 0
				4 OTHER	1/ 8359
				9 NOT STATED	159/ 230606
290	Q155	1	0376	USE OF SUPPLEMENTARY HEATING	
				NOT APPLICABLE	9007/ 7135165
				1 NO SUPPLEMENTARY HEATING	1796/ 2811253
				2 SUPPLEMENTARY HEATING USED	179/ 412800
				NOTE: DERIVED FROM Q154A,B,C AND D	
				1 IF "NO" OR "DON'T KNOW" SUPPLEMENTARY HEATING	
				IN Q.154 A, B, C AND D, GO TO 157	
				2 OTHERWISE CONTINUE	

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
291	Q156	1	0377	DURING THE LAST HEATING SEASON, WOULD YOU SAY YOU USED YOUR SUPPLEMENTARY HEATING SYSTEM...	
				NOT APPLICABLE	10803/ 9946417
				1 LESS THAN 25% OF THE TIME?	99/ 205552
				2 25% TO 75% OF THE TIME?	30/ 79365
				3 MORE THAN 75% OF THE TIME?	21/ 73653
				4 DON'T KNOW	0/ 0
				9 NOT STATED	29/ 54230
292	Q157	1	0378	USE OF WOOD FOR HEATING	
				NOT APPLICABLE	9007/ 7135165
				1 WOOD USED FOR HEAT	88/ 157171
				2 NO WOOD USED FOR HEAT	1887/ 3066881
				NOTE: DERIVED VARIABLE	
				1 IF 145 IS WOOD, OR 148 IS YES, OR 154A IS YES, CONTINUE	
				2 OTHERWISE, GO TO 160	
293	Q158	1	0379	HOW MANY CORDS OF WOOD DO YOU USE IN AN AVERAGE YEAR?	
				NOT APPLICABLE	10894/10202046
				1 LESS THAN 1	43/ 87531
				2 1 - 3	10/ 9676
				3 4 - 6	6/ 13408
				4 MORE THAN 6	4/ 18605
				5 DON'T KNOW	3/ 15268
				9 NOT STATED	22/ 12684
294	Q159	1	0380	WHAT TYPE OF CORD IS IT?	
				NOT APPLICABLE	10897/1021731
				1 FACE OR STOVE (LESS THAN 4FT X 4FT X 8FT)	26/ 49533
				2 FULL OR BUSH (4FT X 4FT X 8FT)	18/ 35827
				3 OTHER	9/ 19786
				4 DON'T KNOW	8/ 9651
				9 NOT STATED	24/ 27107
295	Q160	1	0381	DO YOU HAVE CENTRAL AIR CONDITIONING?	
				NOT APPLICABLE	9007/ 7135165
				1 YES	91/ 234290
				2 NO	1883/ 2988267
				9 NOT STATED	1/ 1495
				NOTE: _____	
				END OF APARTMENT SECTION	
296	Q161	1	0382	DO YOU HAVE CENTRAL AIR-CONDITIONING IN YOUR HOUSE?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	1067/ 1345622
				2 NO	7940/ 5789542
				NOTE: 2 - GO TO Q166	
				1,9 - CONTINUE	
				COUNTS INCLUDE 155 RESPONDENTS FROM Q78 (HEAT PUMP)	

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
297	Q162	1	0383	HEAT PUMP?	
				NOT APPLICABLE	9743/ 8917285
				1 IF "YES" IN Q78 (HEAT PUMP), GO TO Q165	155/ 291393
				2 OTHERWISE CONTINUE	1084/ 1150539
				NOTE: DERIVED FROM Q78: PRESENCE OF HEAT PUMP INDICATES THAT HEAT PUMP IS USED FOR CENTRAL AIR CONDITIONING	
298	Q163	5	0384-0388	WHAT IS ITS COOLING CAPACITY? (BTU/HR)	
				NOT APPLICABLE	10066/ 9295315
				10000:60000	101/ 160472
				99998 DON'T KNOW	381/ 460280
				99999 NOT STATED	434/ 443150
299	Q164	2	0389-0390	HOW OLD IS IT?	
				NOT APPLICABLE	9978/ 9069202
				01 1 YEAR OR LESS	47/ 47621
				02 2 YEARS	86/ 149403
				03 3 YEARS	111/ 190904
				04 4 YEARS	108/ 126110
				05 5 YEARS	110/ 144670
				06 6-7 YEARS	99/ 130514
				07 8-10 YEARS	129/ 135680
				08 11-15 YEARS	123/ 138152
				09 16-20 YEARS	47/ 58538
				10 21 YEARS OR MORE	39/ 56153
				11 DON'T KNOW	62/ 67346
				99 NOT STATED	43/ 44925
300	Q165	1	0391	HOW OFTEN DID YOU USE IT LAST SUMMER?	
				NOT APPLICABLE	9823/ 8777809
				1 NEVER	74/ 140135
				2 ONLY A FEW DAYS	478/ 609718
				3 LESS THAN HALF OF THE SUMMER	264/ 339509
				4 ABOUT HALF OF THE SUMMER	91/ 153136
				5 MORE THAN HALF OF THE SUMMER	124/ 193564
				6 DON'T KNOW	14/ 21360
				9 NOT STATED	114/ 123985
301	Q166	1	0392	DO YOU USE WINDOW OR ROOM AIR CONDITIONERS?	
				1 YES	996/ 1166904
				2 NO	9986/ 9192313
302	Q166A	1	0393	HOW MANY WINDOW OR ROOM AIR CONDITIONERS?	
				NOT APPLICABLE	9986/ 9192313
				1:4	995/ 1166750
				9 NOT STATED	1/ 154
303	Q167A	5	0394-0398	WHAT IS THE COOLING CAPACITY OF YOUR FIRST WINDOW OR ROOM UNIT?	
				NOT APPLICABLE	9986/ 9192313
				05000:20000	435/ 643399
				99998 DON'T KNOW	282/ 244340
				99999 NOT STATED	279/ 279165
				NOTE: NOTE: MAXIMUM OF THREE. IF MORE THAN ONE UNIT, THE ONE USED MOST OFTEN IS "FIRST".	

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
304	Q167B	5	0399-0403	WHAT IS THE COOLING CAPACITY OF YOUR SECOND WINDOW OR ROOM UNIT?	
			NOT APPLICABLE		10888/10193562
			05000:20000		46/ 101057
			99998 DON'T KNOW		28/ 29670
			99999 NOT STATED		20/ 34929
305	Q167C	5	0404-0408	WHAT IS THE COOLING CAPACITY OF YOUR THIRD WINDOW OR ROOM UNIT?	
			NOT APPLICABLE		10972/10347675
			05000:20000		2/ 2894
			99998 DON'T KNOW		5/ 6015
			99999 NOT STATED		3/ 2632
306	Q168AFLG	1	0409	FIRST AIR-CONDITIONING UNIT: MAKE & MODEL FLAG	
			NOT APPLICABLE		9986/ 9192313
			0 INVALID DATA		0/ 0
			1 POTENTIALLY VALID DATA		637/ 740481
			9 NOT STATED		359/ 426423
307	Q168BFLG	1	0410	SECOND AIR-CONDITIONING UNIT: MAKE & MODEL FLAG	
			NOT APPLICABLE		10888/10193562
			0 INVALID DATA		31/ 38735
			1 POTENTIALLY VALID DATA		53/ 112675
			9 NOT STATED		10/ 14246
308	Q168CFLG	1	0411	THIRD AIR-CONDITIONING UNIT: MAKE & MODEL FLAG	
			NOT APPLICABLE		10972/10347675
			0 INVALID DATA		3/ 1850
			1 POTENTIALLY VALID DATA		5/ 7252
			9 NOT STATED		2/ 2440
309	Q169A	2	0412-0413	HOW OLD IS YOUR FIRST WINDOW OR ROOM UNIT?	
			NOT APPLICABLE		9986/ 9192313
			01 1 YEAR OR LESS		29/ 30628
			02 2 YEARS		55/ 76689
			03 3 YEARS		58/ 65303
			04 4 YEARS		60/ 77849
			05 5 YEARS		65/ 75476
			06 6-7 YEARS		87/ 129431
			07 8-10 YEARS		167/ 237707
			08 11-15 YEARS		181/ 196929
			09 16-20 YEARS		88/ 83841
			10 21 YEARS OR MORE		54/ 50394
			11 DON'T KNOW		130/ 100479
			99 NOT STATED		22/ 42179



FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
310	Q169B	2	0414-0415	HOW OLD IS YOUR SECOND WINDOW OR ROOM UNIT?	
				NOT APPLICABLE	10888/10193562
			01	1 YEAR OR LESS	2/ 6809
			02	2 YEARS	5/ 5857
			03	3 YEARS	4/ 2061
			04	4 YEARS	2/ 1794
			05	5 YEARS	9/ 11630
			06	6-7 YEARS	8/ 18231
			07	8-10 YEARS	15/ 19268
			08	11-15 YEARS	15/ 49428
			09	16-20 YEARS	8/ 26530
			10	21 YEARS OR MORE	10/ 12379
			11	DON'T KNOW	10/ 9002
			99	NOT STATED	6/ 2669
311	Q169C	2	0416-0417	HOW OLD IS YOUR THIRD WINDOW OR ROOM UNIT?	
				NOT APPLICABLE	10972/10347675
			01	1 YEAR OR LESS	0/ 0
			02	2 YEARS	1/ 2484
			03	3 YEARS	0/ 0
			04	4 YEARS	1/ 1343
			05	5 YEARS	0/ 0
			06	6-7 YEARS	0/ 0
			07	8-10 YEARS	1/ 1551
			08	11-15 YEARS	1/ 2286
			09	16-20 YEARS	1/ 1681
			10	21 YEARS OR MORE	0/ 0
			11	DON'T KNOW	2/ 1614
			99	NOT STATED	3/ 582
312	Q170	1	0418	HOW OFTEN DO YOU USE YOUR WINDOW OR ROOM AIR CONDITIONER LAST SUMMER? (THE ONE USED MOST OFTEN OR "FIRST" IN Q152)	
				NOT APPLICABLE	9986/ 9192313
			1	NEVER	135/ 153620
			2	ONLY A FEW DAYS	430/ 494871
			3	LESS THAN HALF OF THE SUMMER	185/ 238825
			4	ABOUT HALF OF THE SUMMER	99/ 127496
			5	MOST OF THE SUMMER	110/ 122358
			6	DON'T KNOW	12/ 4874
			9	NOT STATED	25/ 24860
313	Q171	1	0419	DO YOU USE CEILING FANS?	
			1	YES	4376/ 4040677
			2	NO	6425/ 6196401
			9	NOT STATED	181/ 122139
314	Q171A	1	0420	HOW MANY CEILING FANS?	
				NOT APPLICABLE	6425/ 6196401
			1		2951/ 2508546
			2		953/ 942653
			3		302/ 375864
			4		111/ 145856
			5		31/ 42904
			6		8/ 13460
			7		6/ 2789
			8		1/ 1296
			9	NOT STATED	194/ 129448
315	Q172	1	0421	DO YOU USE PORTABLE ELECTRIC FANS?	
			1	YES	4710/ 4149887
			2	NO	6011/ 6014242
			9	NOT STATED	261/ 195088

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
316	Q172A	1	0422	HOW MANY PORTABLE ELECTRIC FANS?	
				NOT APPLICABLE	6011/ 6014242
			1		3231/ 2854574
			2		1098/ 935272
			3		293/ 288805
			4		66/ 51343
			5		8/ 4230
			6		0/ 0
			7		0/ 0
			8		1/ 79
			9	NOT STATED	274/ 210672
317	Q173	1	0423	WHAT FUEL IS USED TO HEAT THE RUNNING WATER?	
			1	ELECTRICITY	5747/ 5093496
			2	OIL	1174/ 371950
			3	NATURAL GAS	3295/ 4057447
			4	PROPANE	166/ 74633
			5	OTHER	71/ 19674
			6	DON'T KNOW	346/ 640590
			7	NO HOT RUNNING WATER, GO TO SECTION Q181	95/ 40728
			8	FUEL NOT STATED, HOT RUNNING WATER INDICATED	69/ 46038
			9	FUEL AND HOT WATER NOT STATED	19/ 14662
318	Q174	1	0424	DOES THE WATER HEATING SYSTEM SERVE YOUR DWELLING ONLY OR IS IT SHARED WITH OTHER DWELLINGS?	
				NOT APPLICABLE	95/ 40728
			1	DWELLING ONLY	9216/ 7962004
			2	SHARED	1594/ 2248349
			3	DON'T KNOW	50/ 83496
			9	NOT STATED	27/ 2464
319	Q175	1	0425	DO YOU USE A HOT WATER TANK (SEPARATE FROM FURNACE)?	
				NOT APPLICABLE	1739/ 2372572
			1	YES	9173/ 7897755
			2	NO	37/ 60311
			3	DON'T KNOW	0/ 0
			9	NOT STATED	33/ 28579
320	Q175A	1	0426	HOW MANY WATER HEATERS?	
				NOT APPLICABLE	1776/ 2432883
			1		7901/ 7070918
			2		63/ 65028
			3		3/ 2120
			9	NOT STATED	1239/ 788268
321	Q176FLG	1	0427	HOT WATER HEATER (MAKE & MODEL FLAG)	
				NOT APPLICABLE	1776/ 2432883
			0	INVALID DATA	2472/ 2337595
			1	POTENTIALLY VALID DATA	6037/ 5255921
			9	NOT STATED	697/ 332818

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
322	Q177	2	0428-0429	HOW OLD IS YOUR WATER HEATER?	
				NOT APPLICABLE	1776/ 2432883
				01 1 YEAR OR LESS	905/ 842838
				02 2 YEARS	683/ 727555
				03 3 YEARS	596/ 471982
				04 4 YEARS	470/ 401074
				05 5 YEARS	689/ 623047
				06 6-7 YEARS	700/ 687700
				07 8-10 YEARS	1160/ 1146516
				08 11-15 YEARS	1082/ 955342
				09 16 YEARS OR MORE	1017/ 771229
				10 DON'T KNOW	1104/ 911570
				99 NOT STATED	800/ 387480
323	Q178	1	0430	WHAT SIZE IS THE HOT WATER TANK?	
				NOT APPLICABLE	1776/ 2432883
				1 SMALL (30 GAL.(140L) OR LESS)	1462/ 1010011
				2 MEDIUM (40 GAL.(180L))	5562/ 4697559
				3 LARGE (50 GAL.(230L))	701/ 745811
				4 VERY LARGE (60 GAL.(270L) OR MORE)	502/ 905939
				5 DON'T KNOW	207/ 199143
				9 NOT STATED	772/ 367871
324	Q179A	1	0431	DOES YOUR HOT WATER SYSTEM HAVE AN ADD-ON INSULATION BLANKET AROUND THE OUTSIDE OF THE HOT WATER TANK?	
				NOT APPLICABLE	1776/ 2432883
				1 YES	1328/ 1317748
				2 NO	6842/ 5969892
				3 DON'T KNOW	251/ 259959
				9 NOT STATED	785/ 378735
325	Q179B	1	0432	DOES YOUR HOT WATER SYSTEM HAVE INSULATION AROUND THE PIPES?	
				NOT APPLICABLE	1776/ 2432883
				1 YES	1685/ 1613206
				2 NO	6313/ 5446235
				3 DON'T KNOW	308/ 338731
				9 NOT STATED	900/ 528161
326	Q180A	1	0433	DO YOU USE A LOW-FLOW SHOWER HEAD IN YOUR IN YOUR (HOUSE/APARTMENT)?	
				NOT APPLICABLE	95/ 40728
				1 YES	3659/ 4044522
				2 NO	6887/ 6023587
				3 DON'T KNOW	210/ 165266
				9 NOT STATED	131/ 85115
327	Q180A1	1	0434	HOW MANY LOW-FLOW SHOWER HEADS?	
				NOT APPLICABLE	7192/ 6229580
				1:5	3595/ 3987499
				9 NOT STATED	195/ 142138
328	Q180B	1	0435	DO YOU USE AN ATTACHMENT ON HOT WATER FAUCET TO REDUCE WATER FLOW? (AERATOR)	
				NOT APPLICABLE	95/ 40728
				1 YES	1493/ 1961590
				2 NO	9066/ 8081493
				3 DON'T KNOW	160/ 150206
				9 NOT STATED	168/ 125200

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
329	Q180B1	1	0436	HOW MANY AERATORS?  NOT APPLICABLE 1:7 9 NOT STATED	9321/ 8272427 1473/ 1942860 188/ 143930
330	Q181	1	0437	DO YOU USE ANY HALOGEN LIGHT BULBS INDOORS OR OUTDOORS?  1 YES 2 NO 3 DON'T KNOW 9 NOT STATED	1773/ 2321823 9038/ 7880499 69/ 81325 102/ 75570
331	Q181A	1	0438	HOW MANY HALOGEN LIGHT BULBS INDOORS?  NOT APPLICABLE 0:9	9209/ 8037394 1773/ 2321823
332	Q181B	1	0439	HOW MANY HALOGEN LIGHT BULBS OUTDOORS?  NOT APPLICABLE 0:9	9209/ 8037394 1773/ 2321823
333	Q182	1	0440	DO YOU USE ANY FLUORESCENT LIGHTING INDOORS OR OUTDOORS?  1 YES 2 NO 3 DON'T KNOW 9 NOT STATED	6043/ 5622226 4824/ 4618998 32/ 50535 83/ 67458
334	Q182A	2	0441-0442	HOW MANY FLUORESCENT LIGHTBULBS INDOORS?  NOT APPLICABLE 00:99	4939/ 473699 6043/ 5622226
335	Q182B	2	0443-0444	HOW MANY FLUORESCENT LIGHTBULBS OUTDOORS?  NOT APPLICABLE 00:99	4939/ 4736991 6043/ 5622226
336	Q183A	2	0445-0446	HOW MANY ORDINARY (INCANDESCENT) LIGHT BULBS DO YOU HAVE IN YOUR KITCHEN?  00:99	10982/10359217
337	Q183B	2	0447-0448	HOW MANY INCANDESCENT LIGHT BULBS DO YOU HAVE IN YOUR LIVING/DINING AREA?  00:99	10982/10359217
338	Q183C	2	0449-0450	HOW MANY INCANDESCENT LIGHT BULBS DO YOU HAVE IN YOUR BEDROOMS/CLOSETS?  00:99	10982/10359217
339	Q183D	2	0451-0452	HOW MANY INCANDESCENT LIGHT BULBS DO YOU HAVE IN YOUR FAMILY ROOM?  00:99	10982/10359217
340	Q183E	2	0453-0454	HOW MANY INCANDESCENT LIGHT BULBS DO YOU HAVE IN YOUR BATHROOMS?  00:99	10982/10359217
341	Q183F	2	0455-0456	HOW MANY INCANDESCENT LIGHT BULBS DO YOU HAVE IN YOUR HALLWAYS?  00:99	10982/10359217



FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
342	Q183G	2	0457-0458	HOW MANY INCANDESCENT LIGHT BULBS DO YOU HAVE IN YOUR BASEMENT?  00:99	10982/10359217
343	Q183H	2	0459-0460	HOW MANY INCANDESCENT LIGHT BULBS DO YOU HAVE IN YOUR ATTIC?  00:99	10982/10359217
344	Q183I	2	0461-0462	HOW MANY INCANDESCENT LIGHT BULBS DO YOU HAVE IN OTHER AREAS INSIDE THE HOUSE?  00:99	10982/10359217
345	Q183INDR	3	0463-0465	TOTAL NUMBER OF INCANDESCENT LIGHT BULBS INDOORS.  0:999  NOTE: SUM (Q183A..Q183I) NUMERIC FIELD	10982/10359217
346	Q183J	2	0466-0467	HOW MANY INCANDESCENT LIGHT BULBS DO YOU HAVE IN YOUR GARAGE?  00:99	10982/10359217
347	Q183K	2	0468-0469	HOW MANY INCANDESCENT LIGHT BULBS DO YOU HAVE OUTDOORS? (INCLUDE SPOT LIGHTS)  00:99	10982/10359217
348	Q184	1	0470	IN WHAT YEAR WAS YOUR DWELLING BUILT?  1 BEFORE 1941 2 1941-1960 3 1961-1977 4 1978-1982 5 1983-1988 6 1989 OR LATER 7 DON'T KNOW 9 NOT STATED	2062/ 1674037 1777/ 1874091 3362/ 3243201 1366/ 1220812 1111/ 1132551 651/ 699177 548/ 417987 105/ 97360
349	Q185	1	0471	IN WHAT YEAR DID YOU OR YOUR HOUSEHOLD MOVE IN? IF NOT ALL AT THE SAME TIME, GIVE THE EARLIEST YEAR.  1 BEFORE 1960 2 1960-1970 3 1971-1980 4 1981-1991 5 1992 6 1993 9 NOT STATED	895/ 526613 1007/ 884034 1986/ 1576044 5290/ 5435626 1527/ 1681617 63/ 64578 214/ 190706
350	Q185A	2	0472-0473	IF 1992, WHAT MONTH DID YOU MOVE IN?  NOT APPLICABLE 01 JAN. 02 FEB. 03 MAR. 04 APR. 05 MAY 06 JUNE 07 JULY 08 AUG. 09 SEPT. 10 OCT. 11 NOV. 12 DEC. 99 NOT STATED	9241/ 8486894 39/ 70418 81/ 78686 62/ 90718 96/ 89521 117/ 131671 148/ 171544 178/ 260867 194/ 183171 219/ 179467 172/ 175948 135/ 144858 73/ 95722 227/ 199730

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
351	Q186	2	0474-0475	TO BETTER UNDERSTAND THE ENERGY USE IN YOUR HOME, PLEASE TELL ME HOW MANY PEOPLE LIVING HERE ARE USUALLY AT HOME DURING THE DAY, ON AN AVERAGE WEEKDAY? PLEASE INCLUDE CHILDREN. (ENTER "0" IF "NOBODY")	
				00:11	10957/10338102
				99 NOT STATED	25/ 21115
352	Q187	1	0476	DO YOU OWN AND USE A VACATION HOME (COTTAGE, CHALET, TRAILER HOME) IN CANADA?	
				1 YES	765/ 723452
				2 NO	9972/ 9451757
				9 NOT STATED	245/ 184009
353	Q188	1	0477	HOW OFTEN DO YOU USUALLY HEAT IT DURING THE HEATING SEASON?	
				NOT APPLICABLE	9972/ 9451757
				1 NEVER	417/ 325460
				2 ONLY A FEW DAYS	176/ 160492
				3 LESS THAN HALF OF THE SEASON	58/ 45003
				4 ABOUT HALF OF THE SEASON	20/ 20901
				5 MOST OF THE SEASON	71/ 138444
				6 DON'T KNOW	2/ 10257
				9 NOT STATED	266/ 206904
354	Q189	1	0478	DO YOU USE A REFRIGERATOR THERE?	
				NOT APPLICABLE	9972/ 9451757
				1 YES	640/ 631713
				2 NO	102/ 67996
				9 NOT STATED	268/ 20775
355	Q190	2	0479-0480	WHAT IS YOUR BEST ESTIMATE OF THE TOTAL INCOME OF ALL HOUSEHOLD MEMBERS FROM ALL SOURCES IN 1992 BEFORE TAXES AND DEDUCTIONS? WAS THE TOTAL HOUSEHOLD INCOME...	
				01 LESS THAN \$10,000	937/ 675563
				02 \$10,000 TO UNDER \$15,000	1053/ 921622
				03 \$15,000 TO UNDER \$20,000	947/ 777300
				04 \$20,000 TO UNDER \$25,000	835/ 756460
				05 \$25,000 TO UNDER \$30,000	856/ 898630
				06 \$30,000 TO UNDER \$35,000	677/ 525626
				07 \$35,000 TO UNDER \$40,000	705/ 647640
				08 \$40,000 TO UNDER \$50,000	978/ 1003313
				09 \$50,000 TO UNDER \$60,000	723/ 832316
				10 \$60,000 TO UNDER \$80,000	661/ 894451
				11 \$80,000 OR MORE	485/ 816896
				12 DON'T KNOW	1232/ 790793
				13 REFUSAL	788/ 710018
				99 NOT STATED	105/ 108590
356	Q191A	1	0481	CAN YOU PLEASE TELL ME IF YOU PAY THE BILLS FOR THE ELECTRICITY?	
				1 YES	10021/ 8963814
				2 NO	927/ 1375769
				9 NOT STATED	34/ 19635
357	Q191B	1	0482	CAN YOU PLEASE TELL ME IF YOU PAY THE BILLS FOR THE HEATING OIL?	
				1 YES	2688/ 1384095
				2 NO	7411/ 7868041
				9 NOT STATED	883/ 110708

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
358	Q191C	1	0483	CAN YOU PLEASE TELL ME IF YOU PAY THE BILLS FOR THE NATURAL GAS?	
				1 YES	3161/ 3618777
				2 NO	7604/ 6311079
				9 NOT STATED	217/ 429361
359	Q192	1	0484	IF "NO" IN Q191C, FOR ALL PROVINCES EXCEPT NFLD, P.E.I, N.S. AND N.B.; IS NATURAL GAS AVAILABLE IN YOUR NEIGHBOURHOOD?	
				NOT APPLICABLE	7665/ 4867594
				1 YES	1179/ 1930134
				2 NO	1135/ 1503227
				3 DON'T KNOW	210/ 782437
				9 NOT STATED	793/ 1275825
360	Q193	1	0485	UTILITY PAYMENT STATUS	
				1 NO BILLS PAID	879/ 1285210
				2 BILLS PAID	10103/ 9074007
				NOTE: DERIVED FROM Q191:	
				1 IF "NO" TO THE THREE UTILITIES IN Q191 GO TO Q196	
				2 OTHERWISE CONTINUE	
361	Q194	1	0486	MAY WE HAVE YOUR PERMISSION TO ASK YOUR ENERGY SUPPLIERS ABOUT HOW MUCH ENERGY WAS USED BY THIS HOUSEHOLD IN THE PAST YEAR? THIS INFORMATION WILL BE USED FOR STATISTICAL PURPOSES ONLY. ENERGY USE OF INDIVIDUAL HOUSEHOLDS WILL NOT BE DISCLOSED TO ANY PERSON OR AGENCY.	
				NOT APPLICABLE	879/ 1285210
				1 YES	8899/ 8026419
				2 NO	1204/ 1047588
362	Q195A	1	0487	HYDRO SUPPLIER.	
				NOT APPLICABLE	2059/ 2323104
				1 NAME GIVEN	8789/ 7935573
				2 DON'T KNOW	4/ 5772
				9 NOT STATED	130/ 94769
363	Q195B	1	0488	NATURAL GAS SUPPLIER.	
				NOT APPLICABLE	7880/ 6601803
				1 NAME GIVEN	2785/ 3205812
				2 DON'T KNOW	24/ 57481
				9 NOT STATED	293/ 494122
364	Q195C	1	0489	HEATING OIL SUPPLIER.	
				NOT APPLICABLE	7809/ 8080311
				1 NAME GIVEN	2054/ 994036
				2 DON'T KNOW	0/ 0
				9 NOT STATED	1119/ 1284870

## NOTE:

NEXT SECTION FOR RENTERS ONLY  
WHILE THE SHEU FILE CONTAINS 3010 RENTAL RECORDS,  
THE MATCH WITH THE RENTAL SURVEY DATA  
WAS SUCCESSFUL FOR 2682.

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
365	FLOOR	2	0490-0491	RENTER ONLY, ON WHICH FLOOR DO YOU LIVE?  NOT APPLICABLE 0:34 99 NOT STATED	9354/ 7833462 1444/ 2310476 184/ 215279
NOTE: DWELLING = '5' OR '6' ONLY					
FIELD 365-376 (FLOOR-RENT) ARE FROM FORM 04					
366	BEDROOMS	1	0492	RENTER ONLY, HOW MANY BEDROOMS IN YOUR DWELLING?  NOT APPLICABLE 0:9	8300/ 6835676 2682/ 3523541
NOTE: CODE 0; BACHELOR APARTMENT					
367	HEAT	1	0493	RENTER ONLY, IS HEAT INCLUDED IN THE RENT?  NOT APPLICABLE 1 YES 2 NO	8300/ 6835676 1370/ 1879952 1312/ 1643589
368	HOTWATER	1	0494	RENTER ONLY, IS HOT WATER INCLUDED IN THE RENT?  NOT APPLICABLE 1 YES 2 NO	8300/ 6835676 1406/ 1918787 1276/ 1604754
369	COLDWAT	1	0495	RENTER ONLY, IS COLD WATER INCLUDED IN THE RENT?  NOT APPLICABLE 1 YES 2 NO	8300/ 6835676 2038/ 282673 644/ 69680
370	ELECTRIC	1	0496	RENTER ONLY, IS ELECTRICITY INCLUDED IN THE RENT?  NOT APPLICABLE 1 YES 2 NO	8300/ 6835676 718/ 1045409 1964/ 2478131
371	FRIDGE	1	0497	RENTER ONLY, IS A FRIDGE INCLUDED?  NOT APPLICABLE 1 YES 2 NO	8300/ 6835676 1960/ 2300824 722/ 1222717
372	STOVE	1	0498	RENTER ONLY, IS A STOVE INCLUDED?  NOT APPLICABLE 1 YES 2 NO	8300/ 6835676 1979/ 2318726 703/ 1204815
373	WASHER	1	0499	RENTER ONLY, IS A WASHING MACHINE INCLUDED?  NOT APPLICABLE 1 YES 2 NO	8300/ 6835676 467/ 421247 2215/ 3102294
374	DRYER	1	0500	RENTER ONLY, IS A CLOTHES DRYER INCLUDED?  NOT APPLICABLE 1 YES 2 NO	8300/ 6835676 484/ 457946 2198/ 3065595



FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
375	OTHAPPLI	1	0501	RENTER ONLY, ARE OTHER MAJOR APPLIANCES INCLUDED IN THE RENT?	
				NOT APPLICABLE	8300/ 6835676
				1 YES	280/ 347915
				2 NO	2402/ 3175626
376	RENT	4	0502-0505	RENTER ONLY, TOTAL MONTHLY RENT?	
				NOT APPLICABLE	8300/ 6835676
				1: 499	1808/ 1768587
				500: 999	731/ 1560339
				1000 MORE THAN \$999	30/ 133426
				9999 NOT STATED	113/ 61189

NOTE: VALUES ABOVE \$999 HAVE BEEN RECDDED TO 1000.



### 13. QUESTIONNAIRES

- 1) Household Record Docket (Form 03) and Code Sheet
- 2) The Labour Force Survey Questionnaire (Form 05) and Code Sheet
- 3) Rent Questionnaire (Form 04)
- 4) Survey of Household Energy Use, 1993 Questionnaire (Form F08)





Record time of every call on this household.

Listing address

**12** IS (read listing address in item 10)  
**YOUR CORRECT MAILING ADDRESS?**

Yes ☐ 1 Go to 13 No ☐ 2 Enter correct mailing address on Form 23 and go to 13

**14** INTERVIEWER CHECK ITEM:  
Language of Interview

English <sup>1</sup> ☐ French <sup>2</sup> ☐ Other <sup>3</sup> ☐

Go to 15

**SUBSEQUENT INTERVIEW**

20 ☐ 1 ☐ Go to 21

• If Personal interview

• Otherwise ask:

**ARE YOU STILL LIVING IN THE SAME DWELLING AS LAST MONTH?**

• where possible, state listing address

2 ☐ 3 ☐ Personal visit required

Yes ☐ Go to 21 No ☐

**16** ARE THERE ANY PERSONS AWAY FROM THIS HOUSEHOLD ATTENDING SCHOOL, VISITING, TRAVELLING OR IN HOSPITAL WHO USUALLY LIVE HERE?

Yes <sup>1</sup>  Enter names in 32 and go to 22      No <sup>2</sup>  Go to 22

**22** DOES ANYONE ELSE LIVE AT THIS DWELLING SUCH AS OTHER RELATIVES, ROOMERS, BOARDERS OR EMPLOYEES?

Yes <sup>1</sup> ☐ Enter names in 32, COMPLETE 33 through 40 and go to 42

No <sup>2</sup> ○ • For a first interview, COMPLETE 33 through 40 and go to 42  
• For a subsequent interview, go to 42

42 IS THIS DWELLING OWNED BY A MEMBER OF THIS HOUSEHOLD?

Yes <sup>1</sup> ☒ Go directly to  
FORMS 05 & 06

No <sup>2</sup> ☐ Complete FORM 04

COMPLETE AT END OF INTERVIEW

#### 43 FOR ALL HOUSEHOLDS

Telephone no.   → Permission to interview by phone:

Granted ☐ 3 ☐ 4 } Go to 44

Denied ☐ 3 ☐ 4 }

to telephone 1 ☐ Telephone no. 2 ☐ refused

Go to 44

44 Determine and record the best time to call on this household.

--	--

**45 RESPONSE CODE**

Month			
Code			

**IF CODE "B"  
EXPLAIN IN NOTES**

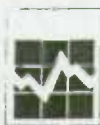
46

Was this interview conducted by telephone?

Yes 1 ☐ No 2 ☐

47 Forms Control	
Form	04 05
Printed	
Completed	

48		NOTES
Unlabeled	Item no.	See over for additional NOTES.
1	<input type="radio"/>	
2	<input type="radio"/>	
3	<input type="radio"/>	
4	<input type="radio"/>	



# Code Sheet

Household Record Docket (Form 03)

Exemplaire français  
disponible sur  
demande ☐

8

- 1 Single Detached
- 2 Double
- 3 Row or Terrace
- 4 Duplex
- 5 Low-Rise Apartment (less than 5 stories) or Flat
- 6 High-Rise Apartment (5 stories or more)
- 7 Institution
- 8 Hotel; Rooming/Lodging House; Camp (Logging, Construction, etc.); Hutterite Colony
- 9 Mobile Home
- 0 Other - Specify in NOTES

34

- M Male  
F Female

35

## WHAT IS... MARITAL STATUS?

(Read categories to respondent)

- 1 Now married or living common-law
- 2 Single (never married)
- 3 Widow or widower
- 4 Separated or divorced

36

Assign one letter to all household members related to the head of a family by one of the relationships listed in Item 37.

("A" for each member of the first family, "B" for each member of the second family, etc.)

37

Each different letter used in Item 36 requires a different 'Head of Family' in Item 37.

- 1 Head of Family
- 2 Spouse
- 3 Son or daughter (natural, adopted or step)
- 4 Grandchild
- 5 Son-in-law or daughter-in-law
- 6 Foster child (less than 18)
- 7 Parent
- 8 Parent-in-law
- 9 Brother or sister
- 0 Other relative - Specify in NOTES

Unrelated roomers, boarders and friends require a separate family identifier in Item 36.

38

## Column 1: WHAT IS THE HIGHEST GRADE OF ELEMENTARY OR HIGH SCHOOL (SECONDARY SCHOOL) ... EVER COMPLETED?

0 Grade 8 or lower Quebec: Secondary II or lower

1 Grade 9 - 10 Quebec: Secondary III or IV  
Newfoundland: 1st year of secondary

Grade 11 - 13 Quebec: Secondary V  
Newfoundland: 2nd to 4th year of secondary

## DID... GRADUATE FROM HIGH SCHOOL (SECONDARY SCHOOL)?

- 2 No
- 3 Yes

40

- 0 Not a household member this month
- 1 Civilian household member this month
- 2 Full-time member of Canadian Armed Forces this month
- 3 Household member 70 years of age and over (non-birth interview only)

## FIRST CODE: Entered by interviewer

NOTE: for any code other than X, explain situation on appropriate form(s) FORMS

- |  |       |
|--|-------|
| X LFS questionnaire completed for all eligible household members   | 22    |
| E LFS questionnaire completed for some (not all) eligible household members  | 15/22 |
| N No one at home (after several calls)   | 15/22 |
| R Household refusal  | 15/22 |
| K Interview prevented by death, sickness, language problem or other unusual circumstances related to the household | 15/22 |
| L Interview prevented by weather conditions  | 15/22 |
| T Household temporarily absent   | 15/22 |
| V Vacant dwelling (or trailer stall and vacant seasonal dwelling)  | 22    |
| C Dwelling under construction  | 22    |
| B Dwelling occupied by persons not to be interviewed   | 15/22 |
| D Dwelling demolished, converted to business premises, moved, abandoned (unfit for habitation), listed in error    | 12/22 |
| A Interview cancelled for lack of an interviewer (Regional Office use only)  |       |

45

## SECOND CODE: Regional Office use only

Blank Interview or attempt to interview again

- 3 Do not interview unless there is a complete change in household membership
- 4 Attempt to interview again, a letter was sent
- 5 Attempt to interview again, personal contact made by Regional Office staff

## Column 2: HAS... RECEIVED ANY OTHER EDUCATION?

- 0 No
- Yes

## COULD THIS EDUCATION BE COUNTED TOWARDS A DEGREE, CERTIFICATE OR DIPLOMA FROM AN EDUCATIONAL INSTITUTION?

- 0 No
- Yes

## WHAT IS THE HIGHEST DEGREE, CERTIFICATE OR DIPLOMA... HAS OBTAINED?

- 1 No postsecondary degree, certificate or diploma
- 2 Trades certificate or diploma from a vocational school or apprenticeship training
- 3 Non-university certificate or diploma from a community college, CEGEP, school of nursing, etc.
- 4 University certificate below bachelor's level
- 5 Bachelor's degree
- 6 University degree or certificate above bachelor's level

## USING TEMPORARY DOCKET NUMBERS

T     A

Always start with "T" for Temporary

Use the last 4 digits of your Assign. No.

"A" for the first additional dwelling, "B" for the second, "C" for the third, etc.







Client No 2

Survey date 3

Assignment No 4

1 FORM NO

05

File No

Given name

Mo Yr

Surname

5

6

7

10 LAST WEEK, DID ... WORK AT A JOB OR BUSINESS? (Regardless of the number of hours)

Yes ☐ 1 No ☐ 2 Go to 30  
PERMANENTLY unable to work ☐ 3 Go to 50

11 DID ... HAVE MORE THAN ONE JOB OR BUSINESS LAST WEEK?

Yes ☐ 1 No ☐ 2 Go to 13

12 WAS THIS A RESULT OF CHANGING EMPLOYERS LAST WEEK?

Yes ☐ 1 No ☐ 2

13 HOW MANY HOURS PER WEEK DOES ... USUALLY WORK AT HIS/HER

(Main) JOB?  if total 30 or more go to 15  
Other jobs?  go to 15

14 WHAT IS THE REASON ... USUALLY WORKS LESS THAN 30 HOURS PER WEEK?

Enter Code

15 LAST WEEK, HOW MANY HOURS OF OVERTIME OR EXTRA HOURS DID ... WORK?

include paid and unpaid time at all jobs  if none enter 00

16 LAST WEEK, HOW MANY HOURS WAS AWAY FROM WORK FOR ANY REASON? (Holiday, vacation, illness, labour dispute, etc.)

(From all jobs)  if none enter 00 and go to 18

17 WHAT WAS THE MAIN REASON FOR BEING AWAY FROM WORK?

Enter code

18 HOW MANY HOURS DID ... ACTUALLY WORK LAST WEEK AT HIS/HER:

(Main) JOB?   
Other jobs?

19 IN THE PAST 4 WEEKS, HAS ... LOOKED FOR ANOTHER JOB?

Yes ☐ 1 No ☐ 2

30 LAST WEEK, DID ... HAVE A JOB OR BUSINESS AT WHICH HE/SHE DID NOT WORK?

Yes ☐ 1 Go to 33 No ☐ 2

31 LAST WEEK, DID ... HAVE A JOB TO START AT A DEFINITE DATE IN THE FUTURE?

Yes ☐ 1 No ☐ 2 Go to 50

32 COUNTING FROM THE END OF LAST WEEK, IN HOW MANY WEEKS WILL ... START TO WORK AT HIS/HER NEW JOB?

Go to 50

33 WHY WAS ... ABSENT FROM WORK LAST WEEK?

Enter code and if code 6 go to 32

34 DID ... HAVE MORE THAN ONE JOB OR BUSINESS LAST WEEK?

Yes ☐ 1 No ☐ 2

35 HOW MANY HOURS PER WEEK DOES ... USUALLY WORK AT HIS/HER:

(Main) JOB?  if total 30 or more go to 37  
Other jobs?

36 WHAT IS THE REASON ... USUALLY WORKS LESS THAN 30 HOURS PER WEEK?

Enter code

37 UP TO THE END OF LAST WEEK, HOW MANY WEEKS HAS ... BEEN CONTINUOUSLY ABSENT FROM WORK?

38 IS ... GETTING ANY WAGES OR SALARY FROM HIS/HER EMPLOYER FOR ANY TIME OFF LAST WEEK?

Yes ☐ 1 No ☐ 2

39 INTERVIEWER CHECK ITEM

• If code 5 (layoff) in 33 ☐ 1 go to 56  
• Otherwise ☐ 2 go to 40

40 IN THE PAST 4 WEEKS, HAS ... LOOKED FOR ANOTHER JOB?

Yes ☐ 1 No ☐ 2

50 HAS ... EVER WORKED AT A JOB OR BUSINESS?

Yes ☐ 1 No ☐ 2 Go to 55

51 WHEN DID ... LAST WORK AT A JOB OR BUSINESS?

No change ☐ 1  Mo  Yr  
if month unknown, enter - in month

52 INTERVIEWER CHECK ITEM

(1) if 51 is before  Mo  Yr ☐ 1 go to 55  
(2) if 51 is equal to or later than  Mo  Yr ☐ 2 go to 53

53 DID ... USUALLY WORK 30 OR MORE HOURS PER WEEK?

Full-time ☐ 1 (30 or more hours per week)  
Part-time ☐ 2 (less than 30 hours per week)

54 WHAT WAS THE MAIN REASON WHY ... LEFT THAT JOB?

Enter code

55 INTERVIEWER CHECK ITEM

• If "perm unable to work" in 10 ☐ 1 go to 80  
• Otherwise ☐ 2 go to 56

56 IN THE PAST 6 MONTHS, HAS ... LOOKED FOR WORK?

Yes ☐ 1 No ☐ 2 Go to 64

57 • IN THE PAST 4 WEEKS, WHAT HAS ... DONE TO FIND WORK? (Mark all methods reported)

Nothing ☐ 1 Go to 62  
• IN THE PAST 4 WEEKS, HAS ... DONE ANYTHING ELSE TO FIND WORK? Mark all other methods reported  
For each method given, ask:

• WHEN DID ... LAST (Repeat method)?

Checked with:	Method used	No. of weeks ago (excl. svy week)
PUBLIC employment AGENCY	<input type="radio"/> 2	<input type="text"/>
PRIVATE employment AGENCY	<input type="radio"/> 3	<input type="text"/>
UNION	<input type="radio"/> 4	<input type="text"/>
EMPLOYERS directly	<input type="radio"/> 5	<input type="text"/>
FRIENDS or relatives	<input type="radio"/> 6	<input type="text"/>
Placed or answered ADS	<input type="radio"/> 7	<input type="text"/>
LOOKED at job ADS	<input type="radio"/> 8	<input type="text"/>
OTHER, Specify in NOTES	<input type="radio"/> 9	<input type="text"/>

58 UP TO THE END OF LAST WEEK, HOW MANY WEEKS HAS ... BEEN LOOKING FOR WORK? (Not counting weeks worked.)

59 WHAT WAS ... 'S MAIN ACTIVITY BEFORE HE/SHE STARTED TO LOOK FOR WORK?

Enter Code

60 IS ... LOOKING FOR A JOB TO LAST MORE THAN 6 MONTHS?

Yes ☐ 1 (More than 6 months) No ☐ 2 (6 months or less)

61 IS ... LOOKING FOR A FULL-TIME OR PART-TIME JOB?

Full-time ☐ 1 (30 or more hours per week)  
Part-time ☐ 2 (less than 30 hours per week)  
Go to 63

62 WHAT WAS THE MAIN REASON WHY ... DID NOT LOOK FOR WORK LAST WEEK?

Enter code

63 WAS THERE ANY REASON WHY ... COULD NOT TAKE A JOB LAST WEEK?

Enter code

64 INTERVIEWER CHECK ITEM

• If "No" (never worked) in 50 ☐ 2 go to 80  
• If upper single in 51 is marked ☐ 3 go to 80  
• Otherwise ☐ 4 go to 77

## EDUCATIONAL ACTIVITIES (if age 65 or over, go to 90)

80 LAST WEEK, WAS ... ATTENDING A SCHOOL, COLLEGE OR UNIVERSITY?

Yes ☐ 1 No ☐ 2 Go to 82

81 WAS ... ENROLLED AS A FULL-TIME OR PART-TIME STUDENT?

Full time ☐ 1 Part time ☐ 2

82 WHAT KIND OF SCHOOL WAS THIS?

Enter code

## INFORMATION SOURCE

90 HAD someone No. of person providing the above information

Last interview

This interview

## DESCRIPTION OF MAIN JOB OR BUSINESS

72 FOR WHOM DID ... WORK? (Name of business, government dept. or agency, or person)

No change ☐ 1   
OR ☐ 2

73 WHEN DID ... START WORKING FOR THIS EMPLOYER?

No change ☐ 1  Mo  Yr ☐ 2  Mo  Yr  
if month unknown enter - in month

74 WHAT KIND OF BUSINESS, INDUSTRY OR SERVICE WAS THIS? (Give full description: e.g., federal government, canning industry, forestry services.)

No change ☐ 1   
OR ☐ 2

75A WHAT KIND OF WORK WAS ... DOING? (Give full description: e.g., office clerk, factory worker, forestry technician.)

No change ☐ 1   
OR ☐ 2

75B IN THIS WORK, WHAT WERE ... 'S MOST IMPORTANT ACTIVITIES OR DUTIES? (Give full description: e.g., filing documents, drying vegetables, forest examiner.)

No change ☐ 1   
OR ☐ 2

76 Class of worker

Main job ☐ 1  OR ☐ 2  Enter Code

77

Other job ☐ 1  OR ☐ 2  Enter Code go to 80

## NOTES

10   
15   
19



# Code Sheet

Labour Force Survey Questionnaire (Form 05)

Exemplaire français  
disponible sur  
demande

14

36

- 1 Own illness or disability
- 2 Personal or family responsibilities
- 3 Going to school
- 4 Could only find part-time work
- 5 Did not want full-time work
- 6 Full-time work under 30 hours per week
- 0 Other – Specify in NOTES

17

- 1 Own illness or disability
- 2 Personal or family responsibilities
- 3 Weather
- 4 Labour dispute (strike or lockout)
- 5 Layoff, expects to return (**Paid Workers Only**)
- 6 New job started during week, or job terminated (does not expect to return)
- 7 Vacation
- 8 Holiday (legal or religious)
- 9 Working short-time (because of material shortages, plant maintenance or repair, etc.)
- 0 Other – Specify in NOTES

33

- 1 Own illness or disability
- 2 Personal or family responsibilities (Include maternity leave)
- 3 Weather
- 4 Labour dispute (strike or lockout)
- 5 Temporary layoff, expects to return (**Paid Workers Only**)
- 6 New job to start in the future
- 7 Vacation
- 8 Seasonal Business (**Excl. Paid Workers**)
- 0 Other – Specify in NOTES

54

- 1 Own illness or disability
- 2 Personal or family responsibilities  
*Include: Marriage, pregnancy, trip, vacation, family illness, etc.*
- 3 Going to school
- 4 Quit job for no specific reason
- 5 Lost job or laid off job (**Paid Workers Only**)  
*Include: Seasonal job, on-call arrangement, temporary job, dismissal (fired), company moved or went out of business, economic conditions, etc.*
- 6 Changed residence
- 7 Dissatisfied with job  
*Include: Low pay, poor hours, transportation problems, working conditions, conflict with employer or co-workers, no opportunity for advancement, etc.*
- 8 Retired
- 0 Other – Specify in NOTES

59

- 1 Working
- 2 Keeping house
- 3 Going to school
- 0 Other – **DO NOT** specify in NOTES

62

- 1 Own illness or disability
- 2 Personal or family responsibilities
- 3 Going to school
- 4 No longer interested in finding work
- 5 Waiting for recall (to former job)
- 6 Has found new job
- 7 Waiting for replies from employers
- 8 Believes no work available (in area, or suited to skills)
- 9 No reason given
- 0 Other – Specify in NOTES

63

Yes, because of:

- 1 Own illness or disability
- 2 Personal or family responsibilities
- 3 Going to school
- 4 Already has a job
- 0 Other – Specify in NOTES
- 5 No (Was available for work)

76

"IN... 'S JOB, WAS HE/SHE A PAID WORKER, SELF-EMPLOYED OR AN UNPAID FAMILY WORKER?"

"IN... 'S OTHER JOB, WAS HE/SHE A PAID WORKER, SELF-EMPLOYED OR AN UNPAID FAMILY WORKER?"

Worked for Others

77

- 1 Paid Worker
- 2 Unpaid family worker

Self-employed

- 3 Incorporated business – With paid help
- 4 Incorporated business – No paid help
- 5 Not incorporated business – With paid help
- 6 Not incorporated business (*Include self-employed without a business*) – No paid help

82

- 1 Primary or secondary school
- 2 Community college, junior college, or CEGEP
- 3 University
- 0 Other – Specify in NOTES





# Rent Questionnaire

1 FORM 04

Confidential when completed

Collected under the authority of the  
Statistics Act, Revised Statutes of Canada,  
1985, Chapter S19.

Français au verso

Docket no.

2

Survey date

3

Assignment no.

4

P.S.U.

5

## 10 INTERVIEWER CHECK ITEM:

- If first rent interview at this dwelling ..... 1 ☐ go to 11
- Otherwise ..... 2 ☐ go to 15

## 11 INTERVIEWER CHECK ITEM:

- If dwelling Code 5 or 6 in item 8 on F03 ..... 1 ☐ go to 12
- Otherwise ..... 2 ☐ go to 13

## 12 ON WHICH FLOOR DO YOU LIVE?

- Enter 00 for dwellings located in the basement.

## 13 TO THE BEST OF YOUR KNOWLEDGE, HOW OLD IS YOUR BUILDING?

- No more than 5 years old ..... 1 ☐
- More than 5 but no more than 10 years old ..... 2 ☐
- More than 10 but no more than 20 years old ..... 3 ☐
- More than 20 but no more than 40 years old ..... 4 ☐
- More than 40 years old ..... 5 ☐

## 14 HOW MANY BEDROOMS ARE THERE IN YOUR DWELLING?

- Enter 0 for bachelor
- If 9 bedrooms or greater, enter 9

## 15 THIS MONTH, IS THE RENT FOR YOUR DWELLING:

- SUBSIDIZED BY GOVERNMENT OR AN EMPLOYER OR RELATIVE?

Yes 1 ☐ Specify in NOTES No 2 ☐

- USED FOR BOTH LIVING AND BUSINESS ACCOMMODATION?

Yes 3 ☐ Specify in NOTES No 4 ☐

## 16 HOW MUCH IS THE TOTAL MONTHLY RENT FOR YOUR DWELLING?

\$     00 If 0000, specify in NOTES

## IF SUBSEQUENT INTERVIEW, SAME HOUSEHOLD ONLY Otherwise, go to 18

## 17 SINCE LAST MONTH, HAVE THERE BEEN ANY CHANGES IN THE AMOUNT OF RENT PAID?

Yes 1 ☐ No 2 ☐

## 18 DOES THIS MONTHLY RENT INCLUDE PARKING FACILITIES

Yes 3 ☐ No 4 ☐ go to 20

## 19 WHAT TYPES OF PARKING FACILITIES ARE INCLUDED IN YOUR RENT?

	No. of Spaces
Closed garage or indoor parking ... 5 <input type="radio"/>	<input type="text"/>
Outside parking with plug-in ... 6 <input type="radio"/>	<input type="text"/>
Outside parking without plug-in ... 7 <input type="radio"/>	<input type="text"/>

For codes 3, 4, 5 or 6 in item 8 on the F03 enter the number of spaces (exclude driveways)

## IF SUBSEQUENT INTERVIEW, SAME HOUSEHOLD ONLY Otherwise, go to 21

## 20 SINCE LAST MONTH HAVE THERE BEEN ANY CHANGES IN THE SERVICES, EQUIPMENT, FURNISHING OR OTHER FACILITIES INCLUDED IN THE RENT?

Yes 1 ☐ No 2 ☐ go to 22

## 21 WHICH OF THE FOLLOWING COMMODITIES ARE INCLUDED AS PART OF THE MONTHLY RENT?

Check all that apply

Heat ..... 01 <input type="radio"/>	Range ..... 07 <input type="radio"/>
Heating of water... 02 <input type="radio"/>	Washer ..... 08 <input type="radio"/>
Cold water ..... 03 <input type="radio"/>	Dryer ..... 09 <input type="radio"/>
Electricity ..... 04 <input type="radio"/>	Other major appliances... 10 <input type="radio"/>
Cablevision ..... 05 <input type="radio"/>	Furniture ..... 11 <input type="radio"/>
Refrigerator ..... 06 <input type="radio"/>	None of the above ... 12 <input type="radio"/>

Specify in NOTES

## 22 COMPLETION STATUS

Completed 1 ☐ Partially completed ..... 2 ☐ Refused ..... 3 ☐ Specify in NOTES

## NOTES

Item no.

99

99

Item no.

99

99



130



# Survey of Household Energy Use, 1993

F 08

Copie française disponible

Confidential when completed

Collected under the authority of the Statistics Act, Revised Statutes of Canada, 1985, Chapter S19



LABEL	Docket No. 1 <input type="text"/>	Date 2 <input type="text"/>	Assignment No. 3 <input type="text"/>
	Type of Dwelling 4 <input type="text"/>	Listing Address 6 <input style="height: 40px;" type="text"/>	
	Owner/Renter 5 <input type="text"/>		
	Language 7 <input type="text"/>	Collect 8 <input type="text"/>	Telephone Number 9 <input type="text"/> - <input type="text"/> - <input type="text"/>
	Code 10 <input type="text"/>	Name (Head of HHLD) 11 <input style="width: 150px;" type="text"/>	
<b>12. COMPLETION STATUS</b>			
LFS non-interview <input type="radio"/> 1      Refused Energy Use Survey <input type="radio"/> 4			
Completed <input type="radio"/> 2      Other non-response <input type="radio"/> 5			
Partially completed <input type="radio"/> 3			
<b>13. Now let's move to the Energy Use Survey.</b> Did you receive the Guide we mailed you?			
yes <input type="radio"/> 6			
no <input type="radio"/> 7			
don't know <input type="radio"/> 8			
<b>14. Who would be the best person to answer questions about your appliances, heating and cooling?</b>			
LFS respondent <input type="radio"/> 1			
Someone else <input type="radio"/> 2 <span style="margin-left: 20px;">write name</span> <input style="width: 100px;" type="text"/>			
HRD page line no. Item 31, F03			
<b>15. If not ready for interview, make an appointment and remind the respondent to complete the Guide.</b>			
<b>16. RECORD OF CALLS / APPOINTMENTS</b>			
<div style="display: flex; justify-content: space-between;"><div>Date</div><div>Time</div><div>Comments</div><div>Call back for:</div></div>			
1. <input style="width: 100%;" type="text"/>			
2. <input style="width: 100%;" type="text"/>			
3. <input style="width: 100%;" type="text"/>			
4. <input style="width: 100%;" type="text"/>			
<b>17. For those who received the Guide:</b>			
Have you completed the Guide?      yes <input type="radio"/> 1      no <input type="radio"/> 2			
Please get the Guide.			
<b>18. START TIME</b> <input style="width: 50px;" type="text"/>			
<b>19.</b> This month's supplement is being done for the Department of Energy, Mines and Resources and will help to plan energy efficiency programs. While your participation is voluntary, your answers are important and will be kept confidential under the Statistics Act.			





## A. APPLIANCES

20. I'm starting with appliances. Consider those used at least once in the past 12 months.

### Refrigerator

21. How many refrigerators do you use?

- one ☒ 01
- two ☐ 02
- more than two ☐ 03
- none ☐ 04 **Go to 28**

Note: If more than one fridge, determine the main and secondary by the frequency of use.

22. What are the make and model number of your (main/second) refrigerator?

(Code "999" for "don't know" in Make or Model)

\*Guide

Main

Make

1

OR Other

(Specify)

2

Model

number

3

Second

Make

4

OR Other

(Specify)

5

Model

number

6

23. How old is your (main/second) refrigerator? (Round up)

\*Guide

- |                  | Main                     | Second                   |
|------------------|--------------------------|--------------------------|
| 1 year or less   | <input type="radio"/> 01 | <input type="radio"/> 12 |
| 2 years          | <input type="radio"/> 02 | <input type="radio"/> 13 |
| 3 years          | <input type="radio"/> 03 | <input type="radio"/> 14 |
| 4 years          | <input type="radio"/> 04 | <input type="radio"/> 15 |
| 5 years          | <input type="radio"/> 05 | <input type="radio"/> 16 |
| 6 - 7 years      | <input type="radio"/> 06 | <input type="radio"/> 17 |
| 8 - 10 years     | <input type="radio"/> 07 | <input type="radio"/> 18 |
| 11 - 15 years    | <input type="radio"/> 08 | <input type="radio"/> 19 |
| 16 - 20 years    | <input type="radio"/> 09 | <input type="radio"/> 20 |
| 21 years or more | <input type="radio"/> 10 | <input type="radio"/> 21 |
| don't know       | <input type="radio"/> 11 | <input type="radio"/> 22 |

24. What kind of door(s) does your (main/second) refrigerator have? Is it...

- |  | Main                     | Second                   |
|--|--------------------------|--------------------------|
| single                                     | <input type="radio"/> 01 | <input type="radio"/> 02 |
| side by side                               | <input type="radio"/> 03 | <input type="radio"/> 04 |
| top & bottom<br>with freezer on top        | <input type="radio"/> 05 | <input type="radio"/> 06 |
| top & bottom<br>with freezer on the bottom | <input type="radio"/> 07 | <input type="radio"/> 08 |
| three doors                                | <input type="radio"/> 09 | <input type="radio"/> 10 |

25. What is the size of your (main/second) refrigerator? Is it...

\*Guide

- |                                      | Main                     | Second                   |
|--------------------------------------|--------------------------|--------------------------|
| bar<br>less than 6.5 cu. ft.         | <input type="radio"/> 11 | <input type="radio"/> 12 |
| small<br>6.5 - 12.4 cu. ft.          | <input type="radio"/> 13 | <input type="radio"/> 14 |
| medium<br>12.5 - 16.4 cu. ft.        | <input type="radio"/> 15 | <input type="radio"/> 16 |
| large<br>16.5 - 20.0 cu. ft.         | <input type="radio"/> 17 | <input type="radio"/> 18 |
| very large<br>more than 20.0 cu. ft. | <input type="radio"/> 19 | <input type="radio"/> 20 |
| don't know                           | <input type="radio"/> 21 | <input type="radio"/> 22 |

26. Is your (main/second) refrigerator frost-free (automatically defrosted) or manually defrosted?

\*Guide

- |                      | Main                    | Second                  |
|----------------------|-------------------------|-------------------------|
| frost-free           | <input type="radio"/> 1 | <input type="radio"/> 2 |
| manually defrosted   | <input type="radio"/> 3 | <input type="radio"/> 4 |
| no freezer in fridge | <input type="radio"/> 5 | <input type="radio"/> 6 |
| don't know           | <input type="radio"/> 7 | <input type="radio"/> 8 |

27. Does your refrigerator have an automatic ice-maker in the door?

- |     | Main                    | Second                  |
|-----|-------------------------|-------------------------|
| yes | <input type="radio"/> 1 | <input type="radio"/> 2 |
| No  | <input type="radio"/> 3 | <input type="radio"/> 4 |



## Cooking Appliances

26. Now moving on to your cooking appliances, do you use a...

regular stove?

Range

built-in oven with  
separate cook top?

► If separate cook-top, is it...

electric?

natural gas?

other?

(Specify)

► Go to 30

29. What are the make and model of your (stove/oven)?  
(Code "999" for "don't know" in Make or Model)

\*Guide

Make

6

OR Other

(Specify)

7

Model

number

8

30. How old is your (stove/oven)?

\*Guide

1 year or less

01

6 - 10 years

07

2 years

02

11 - 15 years

08

3 years

03

16 - 20 years

09

4 years

04

21 years or more

10

5 years

05

6 - 7 years

06

don't know

11

31. What fuel(s) does your (stove/oven) use?  
(Mark one only)

electricity only

1

electricity and natural gas

2

natural gas only

3

oil

4

wood

5

propane

6

other

7

► Go to 35

32. Does your oven have the self-cleaning feature?

\*Guide

yes

no

don't know

► Go to 34

33. How often is the self-cleaning feature used? Is it used...?

\*Guide

once a year or less

4

every 4-6 months

5

every 2-3 months

6

at least once a month

7

never

8

34. Is it a convection oven, that is, an oven with a fan to circulate the hot air?

\*Guide

yes

1

no

2

don't know

3

35. Do you use a range hood or exhaust fan in your kitchen?

yes

4

no

5

don't know

6

► Go to 37

36. Does it have an outdoor vent or a charcoal filter only?

an outdoor vent

7

a charcoal filter only

8

don't know

9

37. Do you use a microwave oven in your (house/apartment)?

yes

1

no

2

► Go to 41

38. How often is your microwave used for reheating?  
Is it...

\*Guide

everyday

3

a few times a week

4

once a week or less

5

never

6

don't know

7

39. And for defrosting?

\*Guide

everyday

1

a few times a week

2

once a week or less

3

never

4

don't know

5

40. And for cooking?

\*Guide

everyday

1

a few times a week

2

once a week or less

3

never

4

don't know

5

Dishwasher

41. Do you use a dishwasher in your house/apartment?

yes

1

no

2

Go to 49

42. What are the make and model of your dishwasher? (Code "999" for "don't know" in Make or Model)

\*Guide

Make

1

OR Other (Specify)

2

Model number

3

43. How old is your dishwasher? (Round up)

\*Guide

1 year or less

01

2 years

02

3 years

03

4 years

04

5 years

05

6 - 7 years

06

8 - 10 years

07

11 - 15 years

08

16 - 20 years

09

21 years or more

10

don't know

11

44. Is it built-in? (Permanently installed)

yes

1

no

2

don't know

3

45. Is it a compact or standard size dishwasher?

\*Guide

compact (mini)

1

standard (full size)

2

don't know

3

46. Does your dishwasher have a switch that allows you to turn off the heat and to dry with unheated air? ("energy-saver")

\*Guide

yes

1

no

2

is it heat dry only?

yes

4

no

5

don't know

6

don't know

3

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

\*Guide

heat on? (hot air)

1

heat off? (air-dry, door closed)

2

open door? (to let the dishes dry naturally)

3

don't know

4

48. How many loads of dishes do you do in an average week? (Mark one only)

\*Guide

less than 1

01

1

2

3

4

5

6

7

8 - 13

09

14 or more

10

don't know

11

Freezer

49. How many freezers do you use, separate from your refrigerator?

one

1

two

2

more than two

3

none

4

Go to 54

PAGE 3

8-5103-274-1

50. What are the make and model number of your (main/second) freezer?

(Code "999" for "don't know" in Make or Model)

\*Guide

Main

Make

OR Other  
(Specify)

Model  
number

Second

Make

OR Other  
(Specify)

Model  
number

51. How old is your (main/second) freezer? (Round up)

\*Guide

	Main	Second
1 year or less	01 <input type="radio"/>	13 <input type="radio"/>
2 years	02 <input type="radio"/>	14 <input type="radio"/>
3 years	03 <input type="radio"/>	15 <input type="radio"/>
4 years	04 <input type="radio"/>	16 <input type="radio"/>
5 years	05 <input type="radio"/>	17 <input type="radio"/>
6-7 years	06 <input type="radio"/>	18 <input type="radio"/>
8-10 years	07 <input type="radio"/>	19 <input type="radio"/>
11-15 years	08 <input type="radio"/>	20 <input type="radio"/>
16-20 years	09 <input type="radio"/>	21 <input type="radio"/>
21-25 years	10 <input type="radio"/>	22 <input type="radio"/>
26 years or more	11 <input type="radio"/>	23 <input type="radio"/>
don't know	12 <input type="radio"/>	24 <input type="radio"/>

52. Is your (main/second) freezer a chest or upright?

	Main	Second
a) chest (top opening)	01 <input type="radio"/>	06 <input type="radio"/>
b) upright (front opening)	02 <input type="radio"/>	07 <input type="radio"/>
Is it manual defrost?	03 <input type="radio"/>	08 <input type="radio"/>
frost-free?	04 <input type="radio"/>	09 <input type="radio"/>
don't know	05 <input type="radio"/>	10 <input type="radio"/>

53. What is the size of your (main/second) freezer? Is it

\*Guide

	Main	Second
very small? (less than 7.0 cu.ft.)	11 <input type="radio"/>	12 <input type="radio"/>
small? (7.0-13.9 cu.ft.)	13 <input type="radio"/>	14 <input type="radio"/>
medium? (14.0-17.9 cu.ft.)	15 <input type="radio"/>	16 <input type="radio"/>
large? (18.0-22.9 cu.ft.)	17 <input type="radio"/>	18 <input type="radio"/>
very large? (23 cu.ft. or more)	19 <input type="radio"/>	20 <input type="radio"/>
don't know	21 <input type="radio"/>	22 <input type="radio"/>

## Washing machine

54. Do you use a washing machine in your (house/apartment)?  
(Include those solely for the use of your household)

yes

☐

no

☐

Go to 67

55. Is your washing machine...

an automatic washer?

☐

a washer/dryer combination?

☐

Go to 59

(single unit with the dryer above the washer)

a wringer washer?

☐

other?

☐

Go to 64

56. What are the make and model of your washing machine?  
(Code "999" for "don't know" in Make or Model)

\*Guide

Make

OR Other  
(Specify)

Model  
number

57. How old is your washing machine? (Round up)

\*Guide

1 year or less	01 <input type="radio"/>	8 - 10 years	07 <input type="radio"/>
2 years	02 <input type="radio"/>	11 - 15 years	08 <input type="radio"/>
3 years	03 <input type="radio"/>	16 - 20 years	09 <input type="radio"/>
4 years	04 <input type="radio"/>	21 years or more	10 <input type="radio"/>
5 years	05 <input type="radio"/>		
6 - 7 years	06 <input type="radio"/>	don't know	11 <input type="radio"/>

58. What size (tub capacity) is the washing machine? Is it

\*Guide

mini (compact)	1 <input type="radio"/>
standard (full size)	2 <input type="radio"/>
large (extra capacity)	3 <input type="radio"/>
don't know	4 <input type="radio"/>

59. What water temperature options do you have for WASHING?

\*Guide

	yes	no	don't know
hot	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
warm	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
cold	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



<p>50. And for RINSING? *Guide</p> <table style="width: 100%; text-align: center;"> <thead> <tr> <th></th> <th>yes</th> <th>no</th> <th>don't know</th> </tr> </thead> <tbody> <tr> <td>hot</td> <td>1 <input type="radio"/></td> <td>2 <input type="radio"/></td> <td>3 <input type="radio"/></td> </tr> <tr> <td>warm</td> <td>4 <input type="radio"/></td> <td>5 <input type="radio"/></td> <td>6 <input type="radio"/></td> </tr> <tr> <td>cold</td> <td>7 <input type="radio"/></td> <td>8 <input type="radio"/></td> <td>9 <input type="radio"/></td> </tr> </tbody> </table>		yes	no	don't know	hot	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	warm	4 <input type="radio"/>	5 <input type="radio"/>	6 <input type="radio"/>	cold	7 <input type="radio"/>	8 <input type="radio"/>	9 <input type="radio"/>	<p>55. And in SUMMER? (Mark one only) *Guide</p> <table style="width: 100%; text-align: center;"> <tbody> <tr> <td>less than 1</td> <td>01 <input type="radio"/></td> <td>6</td> <td>07 <input type="radio"/></td> </tr> <tr> <td>1</td> <td>02 <input type="radio"/></td> <td>7</td> <td>08 <input type="radio"/></td> </tr> <tr> <td>2</td> <td>03 <input type="radio"/></td> <td>8 - 13</td> <td>09 <input type="radio"/></td> </tr> <tr> <td>3</td> <td>04 <input type="radio"/></td> <td>14 or more</td> <td>10 <input type="radio"/></td> </tr> <tr> <td>4</td> <td>05 <input type="radio"/></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>06 <input type="radio"/></td> <td>don't know</td> <td>11 <input type="radio"/></td> </tr> </tbody> </table>	less than 1	01 <input type="radio"/>	6	07 <input type="radio"/>	1	02 <input type="radio"/>	7	08 <input type="radio"/>	2	03 <input type="radio"/>	8 - 13	09 <input type="radio"/>	3	04 <input type="radio"/>	14 or more	10 <input type="radio"/>	4	05 <input type="radio"/>			5	06 <input type="radio"/>	don't know	11 <input type="radio"/>
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5	06 <input type="radio"/>	don't know	11 <input type="radio"/>																																						
<p>51. What water temperature do you use for most of your washing? (Mark one only) *Guide</p> <table style="width: 100%; text-align: center;"> <tbody> <tr> <td>hot</td> <td>1 <input type="radio"/></td> </tr> <tr> <td>warm</td> <td>2 <input type="radio"/></td> </tr> <tr> <td>cold</td> <td>3 <input type="radio"/></td> </tr> <tr> <td>don't know</td> <td>4 <input type="radio"/></td> </tr> </tbody> </table>	hot	1 <input type="radio"/>	warm	2 <input type="radio"/>	cold	3 <input type="radio"/>	don't know	4 <input type="radio"/>	<p><b>Clothes dryer</b></p> <p>56. INTERVIEWER CHECK ITEM:</p> <p>If "washer/dryer combination" in 55 <input type="radio"/> ► Go to 68</p> <p>Otherwise continue <input type="radio"/></p>																																
hot	1 <input type="radio"/>																																								
warm	2 <input type="radio"/>																																								
cold	3 <input type="radio"/>																																								
don't know	4 <input type="radio"/>																																								
<p>62. And for rinsing? (Mark one only) *Guide</p> <table style="width: 100%; text-align: center;"> <tbody> <tr> <td>hot</td> <td>5 <input type="radio"/></td> </tr> <tr> <td>warm</td> <td>6 <input type="radio"/></td> </tr> <tr> <td>cold</td> <td>7 <input type="radio"/></td> </tr> <tr> <td>don't know</td> <td>8 <input type="radio"/></td> </tr> </tbody> </table>	hot	5 <input type="radio"/>	warm	6 <input type="radio"/>	cold	7 <input type="radio"/>	don't know	8 <input type="radio"/>	<p>67. Do you use a clothes dryer in your house or apartment?</p> <p>yes <input type="radio"/></p> <p>no <input type="radio"/> ► Go to 76</p>																																
hot	5 <input type="radio"/>																																								
warm	6 <input type="radio"/>																																								
cold	7 <input type="radio"/>																																								
don't know	8 <input type="radio"/>																																								
<p>63. Can you choose the water level in your washing machine depending on your needs? *Guide</p> <p>yes <input type="radio"/></p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>► Do you use this feature?</p> <p>yes <input type="radio"/> 4 <input type="radio"/></p> <p>no <input type="radio"/> 5 <input type="radio"/></p> <p>don't know <input type="radio"/> 6 <input type="radio"/></p> </div> <p>no <input type="radio"/> 2 <input type="radio"/></p> <p>don't know <input type="radio"/> 3 <input type="radio"/></p>	<p>68. What are the make and model of the clothes dryer? (Code "999" for "don't know" in Make or Model) *Guide</p> <p>Make 5 <table border="1" style="display: inline-table; width: 100px; height: 20px; vertical-align: middle;"></table></p> <p>OR Other (Specify) 6 <table border="1" style="display: inline-table; width: 200px; height: 20px; vertical-align: middle;"></table></p> <p>Model number 7 <table border="1" style="display: inline-table; width: 150px; height: 20px; vertical-align: middle;"></table></p>																																								
<p>64. On an average week in WINTER, how many LOADS of laundry do you wash? (Mark one only) *Guide</p> <table style="width: 100%; text-align: center;"> <tbody> <tr> <td>less than 1</td> <td>01 <input type="radio"/></td> <td>6</td> <td>07 <input type="radio"/></td> </tr> <tr> <td>1</td> <td>02 <input type="radio"/></td> <td>7</td> <td>08 <input type="radio"/></td> </tr> <tr> <td>2</td> <td>03 <input type="radio"/></td> <td>8 - 13</td> <td>09 <input type="radio"/></td> </tr> <tr> <td>3</td> <td>04 <input type="radio"/></td> <td>14 or more</td> <td>10 <input type="radio"/></td> </tr> <tr> <td>4</td> <td>05 <input type="radio"/></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>06 <input type="radio"/></td> <td>don't know</td> <td>11 <input type="radio"/></td> </tr> </tbody> </table>	less than 1	01 <input type="radio"/>	6	07 <input type="radio"/>	1	02 <input type="radio"/>	7	08 <input type="radio"/>	2	03 <input type="radio"/>	8 - 13	09 <input type="radio"/>	3	04 <input type="radio"/>	14 or more	10 <input type="radio"/>	4	05 <input type="radio"/>			5	06 <input type="radio"/>	don't know	11 <input type="radio"/>	<p>69. What size (drum size) is your clothes dryer? Is it... *Guide</p> <p>mini (compact) <input type="radio"/> 1 <input type="radio"/></p> <p>standard (full size) <input type="radio"/> 2 <input type="radio"/></p> <p>large (extra capacity) <input type="radio"/> 3 <input type="radio"/></p> <p>don't know <input type="radio"/> 4 <input type="radio"/></p>																
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Content for 64 is repeated here for layout consistency	<p>70. How old is your clothes dryer? (Round up) *Guide</p> <table style="width: 100%; text-align: center;"> <tbody> <tr> <td>1 year or less</td> <td>01 <input type="radio"/></td> <td>8 - 10 years</td> <td>07 <input type="radio"/></td> </tr> <tr> <td>2 years</td> <td>02 <input type="radio"/></td> <td>11 - 15 years</td> <td>08 <input type="radio"/></td> </tr> <tr> <td>3 years</td> <td>03 <input type="radio"/></td> <td>16 - 20 years</td> <td>09 <input type="radio"/></td> </tr> <tr> <td>4 years</td> <td>04 <input type="radio"/></td> <td>21 years or more</td> <td>10 <input type="radio"/></td> </tr> <tr> <td>5 years</td> <td>05 <input type="radio"/></td> <td></td> <td></td> </tr> <tr> <td>6 - 7 years</td> <td>06 <input type="radio"/></td> <td>don't know</td> <td>11 <input type="radio"/></td> </tr> </tbody> </table>	1 year or less	01 <input type="radio"/>	8 - 10 years	07 <input type="radio"/>	2 years	02 <input type="radio"/>	11 - 15 years	08 <input type="radio"/>	3 years	03 <input type="radio"/>	16 - 20 years	09 <input type="radio"/>	4 years	04 <input type="radio"/>	21 years or more	10 <input type="radio"/>	5 years	05 <input type="radio"/>			6 - 7 years	06 <input type="radio"/>	don't know	11 <input type="radio"/>																
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71. Does your clothes dryer use...

- electricity? ☐ 1
- natural gas? ☐ 2
- other fuel? ☐ 3
- don't know ☐ 4

72. Does your clothes dryer have the following options?

\*Guide

- |  | yes                     | no                      | don't know              |
|--|-------------------------|-------------------------|-------------------------|
| a) a manual timer?<br>(shuts off dryer after pre-selected time)                            | <input type="radio"/> 1 | <input type="radio"/> 2 | <input type="radio"/> 3 |
| b) an automatic shut off when the clothes are dry?<br>(auto-dry)                           | <input type="radio"/> 4 | <input type="radio"/> 5 | <input type="radio"/> 6 |
| c) cool-down or permapress setting<br>(cold air used in the last few minutes of the cycle) | <input type="radio"/> 7 | <input type="radio"/> 8 | <input type="radio"/> 9 |

73. And which of them do you regularly use?

(Mark all that apply.)

\*Guide

- manual timer ☐ 1
- automatic shut off ☐ 2
- cool-down or permapress setting ☐ 3
- don't know ☐ 4

74. On an average week in WINTER, how many LOADS of laundry do you dry in the clothes dryer? (Do not count loads if heat was not used.)

\*Guide

- |             |                          |            |                          |
|-------------|--------------------------|------------|--------------------------|
| less than 1 | <input type="radio"/> 01 | 6          | <input type="radio"/> 07 |
| 1           | <input type="radio"/> 02 | 7          | <input type="radio"/> 08 |
| 2           | <input type="radio"/> 03 | 8 - 13     | <input type="radio"/> 09 |
| 3           | <input type="radio"/> 04 | 14 or more | <input type="radio"/> 10 |
| 4           | <input type="radio"/> 05 |            |                          |
| 5           | <input type="radio"/> 06 | don't know | <input type="radio"/> 11 |

75. And in SUMMER?

\*Guide

- |             |                          |            |                          |
|-------------|--------------------------|------------|--------------------------|
| less than 1 | <input type="radio"/> 12 | 6          | <input type="radio"/> 18 |
| 1           | <input type="radio"/> 13 | 7          | <input type="radio"/> 19 |
| 2           | <input type="radio"/> 14 | 8 - 13     | <input type="radio"/> 20 |
| 3           | <input type="radio"/> 15 | 14 or more | <input type="radio"/> 21 |
| 4           | <input type="radio"/> 16 |            |                          |
| 5           | <input type="radio"/> 17 | don't know | <input type="radio"/> 22 |

## Other appliances

76. Now, I'd like to ask about other appliances used by your household. How many of the following are used?

How many?

(Enter "0" if not applicable)

- |  |                         |
|--|-------------------------|
| colour TV set  | <input type="text"/> 01 |
| black & white TV set   | <input type="text"/> 02 |
| VCR<br>(video cassette recorder)   | <input type="text"/> 03 |
| CD player<br>(compact disk)  | <input type="text"/> 04 |
| other separate stereo system<br>(exclude portable stereos, "walkmans", etc.) | <input type="text"/> 05 |
| computer   | <input type="text"/> 06 |
| electric blanket   | <input type="text"/> 07 |
| waterbed heater  | <input type="text"/> 08 |
| portable humidifier  | <input type="text"/> 09 |
| portable dehumidifier  | <input type="text"/> 10 |
| car block heater   | <input type="text"/> 11 |
| interior car warmer  | <input type="text"/> 12 |
| water cooler   | <input type="text"/> 13 |
| fish tank with pump, heater, and light                                       | <input type="text"/> 14 |
| bathroom exhaust fans  | <input type="text"/> 15 |

77. INTERVIEWER CHECK ITEM:

If Item 10 on LABEL is "D"

☐ 1 Go to SECTION D, 143, page 14

Otherwise continue ☐ 2

## B. HOUSE HEATING

Let's move on now to your heating equipment.

### Heat Pump

78. Do you have a heat pump?

\*Guide

- yes ☐ 3
- no ☐ 4
- don't know ☐ 5

Go to 24

79. Is your heat pump air source or ground source?

\*Guide

- air source? ☐ 6
- ground source?  
(earth energy system) ☐ 7
- don't know ☐ 8

<p>80. How old is it? (Round up) *Guide</p> <table style="width: 100%;"> <tr> <td>1 year or less</td><td>01 <input type="radio"/></td> <td>8 - 10 years</td><td>07 <input type="radio"/></td> </tr> <tr> <td>2 years</td><td>02 <input type="radio"/></td> <td>11 - 15 years</td><td>08 <input type="radio"/></td> </tr> <tr> <td>3 years</td><td>03 <input type="radio"/></td> <td>16 - 20 years</td><td>09 <input type="radio"/></td> </tr> <tr> <td>4 years</td><td>04 <input type="radio"/></td> <td>21 years or more</td><td>10 <input type="radio"/></td> </tr> <tr> <td>5 years</td><td>05 <input type="radio"/></td> <td></td><td></td> </tr> <tr> <td>6 - 7 years</td><td>06 <input type="radio"/></td> <td>don't know</td><td>11 <input type="radio"/></td> </tr> </table>	1 year or less	01 <input type="radio"/>	8 - 10 years	07 <input type="radio"/>	2 years	02 <input type="radio"/>	11 - 15 years	08 <input type="radio"/>	3 years	03 <input type="radio"/>	16 - 20 years	09 <input type="radio"/>	4 years	04 <input type="radio"/>	21 years or more	10 <input type="radio"/>	5 years	05 <input type="radio"/>			6 - 7 years	06 <input type="radio"/>	don't know	11 <input type="radio"/>	<p>85. What fuel or fuels does your heating system use? If it uses two fuels, that is, a dual fuel system, please mention both. *Guide</p> <p><b>Note:</b> If there are two fuels, follow the questions for the first fuel indicated in the list (see interviewer's manual).</p> <table style="width: 100%;"> <tr> <td>natural gas</td><td>1 <input type="radio"/></td> <td></td> </tr> <tr> <td>oil</td><td>2 <input type="radio"/></td> <td></td> </tr> <tr> <td>electricity</td><td>3 <input type="radio"/></td> <td>Go to 67</td> </tr> <tr> <td>wood</td><td>4 <input type="radio"/></td> <td></td> </tr> <tr> <td>propane</td><td>5 <input type="radio"/></td> <td></td> </tr> <tr> <td>coal</td><td>6 <input type="radio"/></td> <td>Go to 87</td> </tr> <tr> <td>other</td><td>7 <input type="radio"/></td> <td></td> </tr> <tr> <td>don't know</td><td>8 <input type="radio"/></td> <td></td> </tr> </table>	natural gas	1 <input type="radio"/>		oil	2 <input type="radio"/>		electricity	3 <input type="radio"/>	Go to 67	wood	4 <input type="radio"/>		propane	5 <input type="radio"/>		coal	6 <input type="radio"/>	Go to 87	other	7 <input type="radio"/>		don't know	8 <input type="radio"/>	
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other	7 <input type="radio"/>																																																
don't know	8 <input type="radio"/>																																																
<p>81. How much power does your heat pump have? *Guide</p> <div style="border: 1px solid black; width: 100px; height: 20px; margin-bottom: 5px;"></div> BTU/hr <p>OR</p> <div style="border: 1px solid black; width: 100px; height: 20px; margin-bottom: 5px;"></div> ton(s) <p>don't know</p>	<p>86. What is the efficiency rating of the heating equipment? *Guide</p> <table style="width: 100%;"> <tr> <td>standard (50 - 65%)</td><td>1 <input type="radio"/></td> </tr> <tr> <td>medium (75 - 80%)</td><td>2 <input type="radio"/></td> </tr> <tr> <td>high (90% or higher)</td><td>3 <input type="radio"/></td> </tr> <tr> <td>don't know</td><td>4 <input type="radio"/></td> </tr> </table>	standard (50 - 65%)	1 <input type="radio"/>	medium (75 - 80%)	2 <input type="radio"/>	high (90% or higher)	3 <input type="radio"/>	don't know	4 <input type="radio"/>																																								
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don't know	4 <input type="radio"/>																																																
<p>82. Do you use a back-up furnace with your heat pump? *Guide</p> <table style="width: 100%;"> <tr> <td>yes</td><td>4 <input type="radio"/></td> </tr> <tr> <td>no</td><td>5 <input type="radio"/></td> </tr> <tr> <td>don't know</td><td>6 <input type="radio"/></td> </tr> </table> <p style="text-align: right;">Go to 89</p>	yes	4 <input type="radio"/>	no	5 <input type="radio"/>	don't know	6 <input type="radio"/>	<p>87. What are the make and model of your (furnace/stove)? (Code "999" for "don't know" in Make or Model) *Guide</p> <p>Make 5 <div style="border: 1px solid black; width: 100px; height: 20px; display: inline-block;"></div></p> <p>OR Other (Specify) 6 <div style="border: 1px solid black; width: 200px; height: 20px; display: inline-block;"></div></p> <p>Model number 7 <div style="border: 1px solid black; width: 150px; height: 20px; display: inline-block;"></div></p>																																										
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<p>83. What fuel does this furnace use? *Guide</p> <table style="width: 100%;"> <tr> <td>natural gas</td><td>1 <input type="radio"/></td> <td>wood</td><td>5 <input type="radio"/></td> </tr> <tr> <td>oil</td><td>2 <input type="radio"/></td> <td>coal</td><td>6 <input type="radio"/></td> </tr> <tr> <td>electricity</td><td>3 <input type="radio"/></td> <td>other</td><td>7 <input type="radio"/></td> </tr> <tr> <td>propane</td><td>4 <input type="radio"/></td> <td>don't know</td><td>8 <input type="radio"/></td> </tr> </table> <p>GO TO 89</p>	natural gas	1 <input type="radio"/>	wood	5 <input type="radio"/>	oil	2 <input type="radio"/>	coal	6 <input type="radio"/>	electricity	3 <input type="radio"/>	other	7 <input type="radio"/>	propane	4 <input type="radio"/>	don't know	8 <input type="radio"/>	<p>88. How old is the heating equipment? (Round up) *Guide</p> <table style="width: 100%;"> <tr> <td>1 year or less</td><td>01 <input type="radio"/></td> <td>6 - 10 years</td><td>07 <input type="radio"/></td> </tr> <tr> <td>2 years</td><td>02 <input type="radio"/></td> <td>11 - 15 years</td><td>08 <input type="radio"/></td> </tr> <tr> <td>3 years</td><td>03 <input type="radio"/></td> <td>16 - 20 years</td><td>09 <input type="radio"/></td> </tr> <tr> <td>4 years</td><td>04 <input type="radio"/></td> <td>21 years or more</td><td>10 <input type="radio"/></td> </tr> <tr> <td>5 years</td><td>05 <input type="radio"/></td> <td></td><td></td> </tr> <tr> <td>6 - 7 years</td><td>06 <input type="radio"/></td> <td>don't know</td><td>11 <input type="radio"/></td> </tr> </table>	1 year or less	01 <input type="radio"/>	6 - 10 years	07 <input type="radio"/>	2 years	02 <input type="radio"/>	11 - 15 years	08 <input type="radio"/>	3 years	03 <input type="radio"/>	16 - 20 years	09 <input type="radio"/>	4 years	04 <input type="radio"/>	21 years or more	10 <input type="radio"/>	5 years	05 <input type="radio"/>			6 - 7 years	06 <input type="radio"/>	don't know	11 <input type="radio"/>								
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<p>84. What is the heating equipment that heats most of the house? Is it... (Mark one only) *Guide</p> <table style="width: 100%;"> <thead> <tr> <th></th> <th>How many?</th> </tr> </thead> <tbody> <tr> <td>furnace with hot air vents?</td> <td>1 <div style="border: 1px solid black; width: 40px; height: 20px; display: inline-block;"></div></td> </tr> <tr> <td>boiler (furnace) with hot water radiators?</td> <td>2 <div style="border: 1px solid black; width: 40px; height: 20px; display: inline-block;"></div></td> </tr> <tr> <td>wood stove?</td> <td>3 <div style="border: 1px solid black; width: 40px; height: 20px; display: inline-block;"></div></td> </tr> <tr> <td>electric baseboards?</td> <td>4 <div style="border: 1px solid black; width: 40px; height: 20px; display: inline-block;"></div></td> </tr> <tr> <td>electric radiant heating</td> <td>5 <div style="border: 1px solid black; width: 40px; height: 20px; display: inline-block;"></div></td> </tr> <tr> <td>other</td> <td>6 <div style="border: 1px solid black; width: 40px; height: 20px; display: inline-block;"></div></td> </tr> <tr> <td>don't know</td> <td>7 <div style="border: 1px solid black; width: 40px; height: 20px; display: inline-block;"></div></td> </tr> </tbody> </table> <p style="text-align: right;">Go to 88</p>		How many?	furnace with hot air vents?	1 <div style="border: 1px solid black; width: 40px; height: 20px; display: inline-block;"></div>	boiler (furnace) with hot water radiators?	2 <div style="border: 1px solid black; width: 40px; height: 20px; display: inline-block;"></div>	wood stove?	3 <div style="border: 1px solid black; width: 40px; height: 20px; display: inline-block;"></div>	electric baseboards?	4 <div style="border: 1px solid black; width: 40px; height: 20px; display: inline-block;"></div>	electric radiant heating	5 <div style="border: 1px solid black; width: 40px; height: 20px; display: inline-block;"></div>	other	6 <div style="border: 1px solid black; width: 40px; height: 20px; display: inline-block;"></div>	don't know	7 <div style="border: 1px solid black; width: 40px; height: 20px; display: inline-block;"></div>	<p>89. Do any of the following special features complement your heating system? *Guide</p> <table style="width: 100%;"> <thead> <tr> <th></th> <th>yes</th> <th>no</th> <th>don't know</th> </tr> </thead> <tbody> <tr> <td>a) central electronic air filter</td> <td>1 <input type="radio"/></td> <td>2 <input type="radio"/></td> <td>3 <input type="radio"/></td> </tr> <tr> <td>b) central humidifier</td> <td>4 <input type="radio"/></td> <td>5 <input type="radio"/></td> <td>6 <input type="radio"/></td> </tr> <tr> <td>c) central dehumidifier</td> <td>7 <input type="radio"/></td> <td>8 <input type="radio"/></td> <td>9 <input type="radio"/></td> </tr> </tbody> </table>		yes	no	don't know	a) central electronic air filter	1 <input type="radio"/>	2 <input type="radio"/>	3 <input type="radio"/>	b) central humidifier	4 <input type="radio"/>	5 <input type="radio"/>	6 <input type="radio"/>	c) central dehumidifier	7 <input type="radio"/>	8 <input type="radio"/>	9 <input type="radio"/>																
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90. Do you use a programmable thermostat with a timer to change the temperature automatically?

\*Guide


yes ☐ 1

no ☐ 2

don't know ☐ 3

### Fireplace

91. Do you have a wood burning fireplace in your home?

 yes ☐ 4 **How many?** ☐

no ☐ 5 **Go to 96**

**Note:** If more than one fireplace, ask about the one used most often.

92. Does it have glass doors?

yes ☐ 1

no ☐ 2

don't know ☐ 3

93. Does it have a fireplace insert?

yes ☐ 4

no ☐ 5

don't know ☐ 6

94. How old is it?

\*Guide

0 - 5 years ☐ 1

6 - 10 years ☐ 2

11 years or more ☐ 3

don't know ☐ 4

95. About how often do you use the fireplace during the heating season? Is it...  
(Mark one only)

never ☐ 5

not every week ☐ 6

1 - 3 times per week ☐ 7

more than 3 times per week ☐ 8

don't know ☐ 9

96. Do you have a gas burning fireplace in your home?

yes ☐ **How many?** ☐


no ☐ 3

97. Do you use any of the following types of supplementary heating...

(Mark all that apply)

\*Guide

A) wood stove(s)?

 yes ☐ 01

no ☐ 02 **Go to 97B**

don't know ☐ 03

i) How old is it?

0 - 5 years ☐ 04

6 - 10 years ☐ 05

11 years or more ☐ 06

don't know ☐ 07

ii) What area is it heating?

whole house ☐ 08

basement ☐ 09

garage ☐ 10

attic ☐ 11

solarium/sunroom ☐ 12

other ☐ 13

iii) On average, how often do you use it during the heating season? Is it...

more than 4 hours per day? ☐ 14

between 1 and 4 hours per day? ☐ 15

less than 1 hour per day but more than 1 hour per week? ☐ 16

less than 1 hour per week? ☐ 17

B) electric baseboard(s)?

yes ☐ 18

no ☐ 19 **Go to 97C**

don't know ☐ 20

i) What area(s) is it (are they) heating?

(Mark all that apply)

whole house ☐ 21

basement ☐ 22

garage ☐ 23

attic ☐ 24

solarium/sunroom ☐ 25

other ☐ 26

C) portable heater(s)?

yes ☐ 27

no ☐ 28 **Go to 97D**

don't know ☐ 29

i) What area(s) is it (are they) heating?

(Mark all that apply)

whole house ☐ 30

basement ☐ 31

garage ☐ 32

attic ☐ 33

solarium/sunroom ☐ 34

other ☐ 35

ii) What fuel is used?

electricity ☐ 36

natural gas ☐ 37

oil ☐ 38

other ☐ 39



<p><b>D) any other supplementary heating?</b></p> <p>yes <input type="radio"/> 40</p> <p>no <input type="radio"/> 41 <span style="float: right;">Go to 93</span></p> <p>don't know <input type="radio"/> 42</p> <p><b>E) What area(s) is it (are they) heating?</b></p> <p>(Mark all that apply)</p> <p>whole house <input type="radio"/> 43</p> <p>basement <input type="radio"/> 44</p> <p>garage <input type="radio"/> 45</p> <p>attic <input type="radio"/> 46</p> <p>solarium/sunroom <input type="radio"/> 47</p> <p>other <input type="radio"/> 48</p> <p><b>F) What fuel is used?</b></p> <p>electricity <input type="radio"/> 49</p> <p>natural gas <input type="radio"/> 50</p> <p>oil <input type="radio"/> 51</p> <p>other <input type="radio"/> 52</p>	<p><b>102. What type of cord is it?</b></p> <p><i>*Guide</i></p> <p>face or stove cords <input type="radio"/> 6</p> <p>(less than 4 ft. X 4 ft. X 8 ft.)</p> <p>full (bush) cord <input type="radio"/> 7</p> <p>(4 ft. X 4 ft. X 8 ft.)</p> <p>other <input type="radio"/> 8</p> <p>don't know <input type="radio"/> 9</p>
<p><b>98. INTERVIEWER CHECK ITEM:</b></p> <p>If "no" or "don't know" in supplementary heating in Q.97 A, B, C and D. <input type="radio"/> 1 <span style="float: right;">Go to 100</span></p> <p>Otherwise continue <input type="radio"/> 2</p>	<p><b>103. At what temperature do you usually maintain most of your home during the heating season...</b></p> <p><i>*Guide</i></p> <p><b>A) during the daytime (6am - 6pm)</b></p> <p>15°C (61°F) or less <input type="radio"/> 01</p> <p>17°C (62 - 63°F) <input type="radio"/> 02</p> <p>18°C (64 - 65°F) <input type="radio"/> 03</p> <p>19°C (66 - 67°F) <input type="radio"/> 04</p> <p>20°C (68 - 69°F) <input type="radio"/> 05</p> <p>21°C (70 - 71°F) <input type="radio"/> 06</p> <p>22°C (72°F) <input type="radio"/> 07</p> <p>23°C (73 - 74°F) <input type="radio"/> 08</p> <p>24°C (75°F) or more <input type="radio"/> 09</p> <p>don't know <input type="radio"/> 10</p> <p><b>B) during the evening (6pm - 10pm)</b></p> <p>15°C (61°F) or less <input type="radio"/> 11</p> <p>17°C (62 - 63°F) <input type="radio"/> 12</p> <p>18°C (64 - 65°F) <input type="radio"/> 13</p> <p>19°C (66 - 67°F) <input type="radio"/> 14</p> <p>20°C (68 - 69°F) <input type="radio"/> 15</p> <p>21°C (70 - 71°F) <input type="radio"/> 16</p> <p>22°C (72°F) <input type="radio"/> 17</p> <p>23°C (73 - 74°F) <input type="radio"/> 18</p> <p>24°C (75°F) or more <input type="radio"/> 19</p> <p>don't know <input type="radio"/> 20</p> <p><b>C) over night (10pm - 6am)</b></p> <p>15°C (61°F) or less <input type="radio"/> 21</p> <p>17°C (62 - 63°F) <input type="radio"/> 22</p> <p>18°C (64 - 65°F) <input type="radio"/> 23</p> <p>19°C (66 - 67°F) <input type="radio"/> 24</p> <p>20°C (68 - 69°F) <input type="radio"/> 25</p> <p>21°C (70 - 71°F) <input type="radio"/> 26</p> <p>22°C (72°F) <input type="radio"/> 27</p> <p>23°C (73 - 74°F) <input type="radio"/> 28</p> <p>24°C (75°F) or more <input type="radio"/> 29</p> <p>don't know <input type="radio"/> 30</p>
<p><b>99. During the last heating season, would you say you used your supplementary heating system...</b></p> <p><i>*Guide</i></p> <p>less than 25% of the time? <input type="radio"/> 3</p> <p>25% to 75% of the time? <input type="radio"/> 4</p> <p>more than 75% of the time? <input type="radio"/> 5</p> <p>don't know <input type="radio"/> 6</p>	
<p><b>100. INTERVIEWER CHECK ITEM:</b></p> <p>If 85 is "wood" or 91 is "yes".....(wood fireplace) or 97A is "yes".....(supplementary wood stove) continue <input type="radio"/> 7</p> <p>Otherwise <input type="radio"/> 8 <span style="float: right;">Go to 103</span></p>	
<p><b>101. How many cords of wood do you use in an average year?</b></p> <p><i>*Guide</i></p> <p>less than 1 <input type="radio"/> 9</p> <p>1 - 3 <input type="radio"/> 10</p> <p>4 - 6 <input type="radio"/> 11</p> <p>more than 6 <input type="radio"/> 12</p> <p>don't know <input type="radio"/> 13 <span style="float: right;">Go to 103</span></p>	



### C. HOUSE FEATURES and CONDITION

104. How many storeys, excluding the basement, does your house have?

\*Guide

- one storey ☐ 1
- one and one half storeys ☐ 2
- two storeys ☐ 3
- two and one half storeys ☐ 4
- three storeys ☐ 5
- split level ☐ 6
- bislevel (split entry) ☐ 7
- other ☐ 8

#### Exterior

105. What are most of the exterior walls of your house made of? (Mark one only)

- aluminum/steel siding ☐ 01
- brick ☐ 02
- stucco ☐ 03
- vinyl siding ☐ 04
- stone/concrete ☐ 05
- wood ☐ 06
- log ☐ 07
- asbestos shingle ☐ 08
- other ☐ 09
- don't know ☐ 10

106. What other material, if any, is used on the exterior walls? (Mark one only)

- aluminum/steel siding ☐ 11
- brick ☐ 12
- stucco ☐ 13
- vinyl siding ☐ 14
- stone/concrete ☐ 15
- wood ☐ 16
- log ☐ 17
- asbestos shingle ☐ 18
- other ☐ 19
- none ☐ 20
- don't know ☐ 21

107. To your knowledge, have any improvements been made to the insulation of the walls, excluding siding?

\*Guide

yes ☐ 01

a. Was the insulation added to the outside or put inside the wall?

- outside ☐ 02
- inside ☐ 03
- both ☐ 04
- don't know ☐ 05

b. When?

- '77 or earlier ☐ 06
- '78 - '83 ☐ 07
- '84 or later ☐ 08
- don't know ☐ 09

no ☐ 10

don't know ☐ 11

108. To your knowledge, have any improvements been made to the insulation of the roof or the attic, excluding replacement of roof?

\*Guide

yes ☐ 12

When?

- '77 or earlier ☐ 40
- '78 - '83 ☐ 41
- '84 or later ☐ 42
- don't know ☐ 43

no ☐ 44

don't know ☐ 45

109. Approximately, what is the total HEATED living area of your house, excluding basement and garage?

\*Guide

- less than 600 sq. ft. ☐ 01
- 601 - 1,000 ☐ 02
- 1,001 - 1,500 ☐ 03
- 1,501 - 2,000 ☐ 04
- 2,001 - 2,500 ☐ 05
- 2,501 sq. ft. or more ☐ 06

OR

square meters ☐ 07

OR Inside measurements:

length  ft. width  ft.

OR

length  m width  m

OR

Total heated rooms

(Total number of heated rooms excluding basement and bathrooms)

don't know ☐ 10

#### Basement

110. Does this house have a... (Mark all that apply)

full basement? ☐ 1

partial basement? ☐ 2

crawl space? ☐ 3

no basement? ☐ 4

Go to 118

111. What is the square footage of your basement or crawl space?

\*Guide

sq. ft.

OR

sq. m.

OR

length  ft. width  ft.

OR

length  m. width  m.

don't know

116. Is the basement usually heated?

yes

no

don't know

☐

☐

☐

Go to 118

117. How much of the basement area is heated?  
(Mark one only)

the whole basement

more than one half

about one half

less than half

don't know

☐

☐

☐

☐

☐

112. Are the basement walls (foundation) insulated on the inside?

yes

Are they...

fully insulated?

partly insulated?

don't know?

☐

☐

☐

no

don't know

☐

☐

Go to 114

### Garage

118. Do you have a heated garage solely for the use of your household?

yes

no

☐

☐

Go to 122

113. To your knowledge, have any improvements been made to the insulation of the basement walls?

\*Guide

yes

When?

'77 or earlier

'78-'83

'84 or later

don't know

☐

☐

☐

☐

no

don't know

☐

☐

119. Is your garage attached to your house?

yes

no

☐

☐

Go to 122

114. Not including carpeting or flooring, is the basement floor insulated?

yes

Is it...

fully insulated?

partly insulated?

don't know

☐

☐

☐

no

don't know?

☐

☐

Go to 116

120. Is your garage under a heated room?

yes

no

☐

☐

121. Does it have an insulated door?

yes

no

don't know

☐

☐

☐

### Attic

115. To your knowledge, have any improvements been made to the insulation of the basement floor?

\*Guide

yes

When?

'77 or earlier

'78-'83

'84 or later

don't know

☐

☐

☐

☐

no

don't know

☐

☐

122. Do you have...

a finished attic?

an unfinished attic?

a crawl space

(not enough room to stand)

no attic

don't know

☐

☐

☐

☐

☐

☐

## Solarium/Sunroom

123. Do you have a heated solarium or sunroom?

yes ☐ 10  
no ☐ 30

## Doors

124. Moving on to doors that lead to outside or unheated areas, do you have any...

\*Guide

a) wood doors?

yes ☐ 10

How many... with storm doors? ☐

without storm doors? ☐

no ☐ 20

b) metal doors?

yes ☐ 30

How many... with storm doors? ☐

without storm doors? ☐

no ☐ 40

c) patio doors?

yes ☐ 10

How many? ☐

no ☐ 30

d) other exterior doors?

yes ☐ 70

How many? ☐

no ☐ 50

125. Do you feel there are any air leaks or drafts around your doors?

yes ☐ 10

Do they all leak?

yes ☐ 40

no ☐ 50

no ☐ 20

don't know ☐ 30

126. Were any of your exterior doors replaced?

\*Guide

yes ☐ 10

When? (Most recent replacement)

'77 or earlier ☐ 40

'78 - '83 ☐ 50

'84 or later ☐ 60

don't know ☐ 70

no ☐ 20

don't know ☐ 30

127. To your knowledge, have any improvements been made to the weatherstripping or caulking of the doors?

\*Guide

yes ☐ 01

a) When?

'77 or earlier ☐ 04

'78 - '83 ☐ 05

'84 or later ☐ 06

don't know ☐ 07

b) Was it done by a professional?

yes ☐ 05

no ☐ 09

don't know ☐ 10

no ☐ 08

don't know ☐ 09

## Windows

128. Do you have any skylights?

(Windows in the roof)

yes ☐ 10

How many are...

triple pane? ☐ 3

double pane? ☐ 4

single pane? ☐ 5

don't know ☐ 50

no ☐ 20

129. In the heated part of your house, do you have any of the following?

\*Guide

a) triple pane windows?

yes ☐ 10

How many are...

picture windows? ☐ 1

(oversized) ☐ 2

other size? ☐ 3

no ☐ 20

b) double pane windows?

yes ☐ 30

How many are...

picture windows? ☐ 1

(oversized) ☐ 2

other size? ☐ 3

no ☐ 40

c) single pane windows with storm windows?

yes ☐ 50

How many are...

picture windows? ☐ 1

(oversized) ☐ 2

other size? ☐ 3

no ☐ 30

d) single pane windows without storm windows?

yes ☐ 70

How many are...

picture windows? ☐ 1

(oversized) ☐ 2

other size? ☐ 3

no ☐ 20



130. Excluding storm windows, what are most of your window frames made of?

metal (aluminum/steel) ..... 1  
wood ..... 2  
fibre glass/vinyl (PVC) ..... 3  
other ..... 4  
don't know ..... 5

131. Do you feel there are any air leaks or drafts around your windows?

yes ..... 1

▶ Do they ALL leak?

yes ..... 4  
no ..... 5

no ..... 3  
don't know ..... 4

132. Have any of your windows been replaced?

\*Guide

yes ..... 1

▶ When?  
(Most recent replacement)

'77 or earlier ..... 4  
'78 - '83 ..... 5  
'84 or later ..... 6  
don't know ..... 7

no ..... 2  
don't know ..... 3

133. Have any improvements been made to the caulking or weatherstripping of the windows?

\*Guide

yes ..... 01

▶ a) When?

'77 or earlier ..... 04  
'78 - '83 ..... 05  
'84 or later ..... 06  
don't know ..... 07

b) Was it done by a professional?

yes ..... 08  
no ..... 09  
don't know ..... 10

no ..... 03  
don't know ..... 06

134. Do you have a central ventilation system, also known as an air exchanger, which provides fresh air for the entire house?

\*Guide

yes ..... 01

▶ a) Does it have heat recovery?  
(heat exchanger)

yes ..... 04  
no ..... 05  
don't know ..... 06

b) When is it used?

all year ..... 07  
winter only ..... 08  
summer only ..... 09  
occasionally ..... 10  
never ..... 11

no ..... 02  
don't know ..... 03

135. Do you use a ...

	yes	no	don't know
central vacuum cleaner?	1	2	3
septic pump?	4	5	6
water softener?	7	8	9

### Swimming Pool

136. Do you have a swimming pool solely for the use of your household? (Exclude children's wading pool)

yes ..... 1

no ..... 2 ▶ Go to 141

137. Do you use a pool heater?

yes ..... 3

no ..... 4 ▶ Go to 141

138. What kind of pool heater do you use?

oil heater ..... 1  
gas heater ..... 2  
propane heater ..... 3  
electric heater ..... 4  
pool heat pump ..... 5  
solar panel ..... 6  
don't know ..... 7

139. Do you use a timer with your pool heater?

yes ..... 1

no ..... 2

140. Do you use a solar blanket?

yes ..... 3

no ..... 4

### Hot tub, Sauna

141. Do you have a hot tub/jacuzzi/whirlpool?

yes ..... 5

▶ How many ...

indoor?

outdoor?

no ..... 6

142. Do you have a sauna?

yes ..... 7

no ..... 8

GO TO SECTION E, 161, page 16



**D. APARTMENT HEATING and SIZE**

143. Approximately, what is the total **HEATED** living area of your apartment?

\*Guide

- less than 600 sq. ft. ☐ 01
- 601 - 1000 ☐ 02
- 1001 - 1500 ☐ 03
- 1501 - 2000 ☐ 04
- 2001 - 2500 ☐ 05
- 2501 sq. ft. or more ☐ 06

OR

Square meters ☐ 07

OR inside measurements:

length  ft. width  ft.

OR

length  m. width  m.

OR

Total heated rooms ☐ 08

(Do not include bathrooms)

don't know ☐ 09

144. What is the heating equipment that heats most of your apartment?

Is it... (Mark one only)

\*Guide

- hot air vents? ☐ 1
- hot water radiators? ☐ 2
- wood stove? ☐ 3

electric baseboards? ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24 ☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31 ☐ 32 ☐ 33 ☐ 34 ☐ 35 ☐ 36 ☐ 37 ☐ 38 ☐ 39 ☐ 40 ☐ 41 ☐ 42 ☐ 43 ☐ 44 ☐ 45 ☐ 46 ☐ 47 ☐ 48 ☐ 49 ☐ 50 ☐ 51 ☐ 52 ☐ 53 ☐ 54 ☐ 55 ☐ 56 ☐ 57 ☐ 58 ☐ 59 ☐ 60 ☐ 61 ☐ 62 ☐ 63 ☐ 64 ☐ 65 ☐ 66 ☐ 67 ☐ 68 ☐ 69 ☐ 70 ☐ 71 ☐ 72 ☐ 73 ☐ 74 ☐ 75 ☐ 76 ☐ 77 ☐ 78 ☐ 79 ☐ 80 ☐ 81 ☐ 82 ☐ 83 ☐ 84 ☐ 85 ☐ 86 ☐ 87 ☐ 88 ☐ 89 ☐ 90 ☐ 91 ☐ 92 ☐ 93 ☐ 94 ☐ 95 ☐ 96 ☐ 97 ☐ 98 ☐ 99 ☐ 100 ☐ 101 ☐ 102 ☐ 103 ☐ 104 ☐ 105 ☐ 106 ☐ 107 ☐ 108 ☐ 109 ☐ 110 ☐ 111 ☐ 112 ☐ 113 ☐ 114 ☐ 115 ☐ 116 ☐ 117 ☐ 118 ☐ 119 ☐ 120 ☐ 121 ☐ 122 ☐ 123 ☐ 124 ☐ 125 ☐ 126 ☐ 127 ☐ 128 ☐ 129 ☐ 130 ☐ 131 ☐ 132 ☐ 133 ☐ 134 ☐ 135 ☐ 136 ☐ 137 ☐ 138 ☐ 139 ☐ 140 ☐ 141 ☐ 142 ☐ 143 ☐ 144 ☐ 145 ☐ 146 ☐ 147 ☐ 148 ☐ 149 ☐ 150 ☐ 151 ☐ 152 ☐ 153 ☐ 154 ☐ 155 ☐ 156 ☐ 157 ☐ 158 ☐ 159 ☐ 160 ☐ 161 ☐ 162 ☐ 163 ☐ 164 ☐ 165 ☐ 166 ☐ 167 ☐ 168 ☐ 169 ☐ 170 ☐ 171 ☐ 172 ☐ 173 ☐ 174 ☐ 175 ☐ 176 ☐ 177 ☐ 178 ☐ 179 ☐ 180 ☐ 181 ☐ 182 ☐ 183 ☐ 184 ☐ 185 ☐ 186 ☐ 187 ☐ 188 ☐ 189 ☐ 190 ☐ 191 ☐ 192 ☐ 193 ☐ 194 ☐ 195 ☐ 196 ☐ 197 ☐ 198 ☐ 199 ☐ 200 ☐ 201 ☐ 202 ☐ 203 ☐ 204 ☐ 205 ☐ 206 ☐ 207 ☐ 208 ☐ 209 ☐ 210 ☐ 211 ☐ 212 ☐ 213 ☐ 214 ☐ 215 ☐ 216 ☐ 217 ☐ 218 ☐ 219 ☐ 220 ☐ 221 ☐ 222 ☐ 223 ☐ 224 ☐ 225 ☐ 226 ☐ 227 ☐ 228 ☐ 229 ☐ 230 ☐ 231 ☐ 232 ☐ 233 ☐ 234 ☐ 235 ☐ 236 ☐ 237 ☐ 238 ☐ 239 ☐ 240 ☐ 241 ☐ 242 ☐ 243 ☐ 244 ☐ 245 ☐ 246 ☐ 247 ☐ 248 ☐ 249 ☐ 250 ☐ 251 ☐ 252 ☐ 253 ☐ 254 ☐ 255 ☐ 256 ☐ 257 ☐ 258 ☐ 259 ☐ 260 ☐ 261 ☐ 262 ☐ 263 ☐ 264 ☐ 265 ☐ 266 ☐ 267 ☐ 268 ☐ 269 ☐ 270 ☐ 271 ☐ 272 ☐ 273 ☐ 274 ☐ 275 ☐ 276 ☐ 277 ☐ 278 ☐ 279 ☐ 280 ☐ 281 ☐ 282 ☐ 283 ☐ 284 ☐ 285 ☐ 286 ☐ 287 ☐ 288 ☐ 289 ☐ 290 ☐ 291 ☐ 292 ☐ 293 ☐ 294 ☐ 295 ☐ 296 ☐ 297 ☐ 298 ☐ 299 ☐ 300 ☐ 301 ☐ 302 ☐ 303 ☐ 304 ☐ 305 ☐ 306 ☐ 307 ☐ 308 ☐ 309 ☐ 310 ☐ 311 ☐ 312 ☐ 313 ☐ 314 ☐ 315 ☐ 316 ☐ 317 ☐ 318 ☐ 319 ☐ 320 ☐ 321 ☐ 322 ☐ 323 ☐ 324 ☐ 325 ☐ 326 ☐ 327 ☐ 328 ☐ 329 ☐ 330 ☐ 331 ☐ 332 ☐ 333 ☐ 334 ☐ 335 ☐ 336 ☐ 337 ☐ 338 ☐ 339 ☐ 340 ☐ 341 ☐ 342 ☐ 343 ☐ 344 ☐ 345 ☐ 346 ☐ 347 ☐ 348 ☐ 349 ☐ 350 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☐ 684 ☐ 685 ☐ 686 ☐ 687 ☐ 688 ☐ 689 ☐ 690 ☐ 691 ☐ 692 ☐ 693 ☐ 694 ☐ 695 ☐ 696 ☐ 697 ☐ 698 ☐ 699 ☐ 700 ☐ 701 ☐ 702 ☐ 703 ☐ 704 ☐ 705 ☐ 706 ☐ 707 ☐ 708 ☐ 709 ☐ 710 ☐ 711 ☐ 712 ☐ 713 ☐ 714 ☐ 715 ☐ 716 ☐ 717 ☐ 718 ☐ 719 ☐ 720 ☐ 721 ☐ 722 ☐ 723 ☐ 724 ☐ 725 ☐ 726 ☐ 727 ☐ 728 ☐ 729 ☐ 730 ☐ 731 ☐ 732 ☐ 733 ☐ 734 ☐ 735 ☐ 736 ☐ 737 ☐ 738 ☐ 739 ☐ 740 ☐ 741 ☐ 742 ☐ 743 ☐ 744 ☐ 745 ☐ 746 ☐ 747 ☐ 748 ☐ 749 ☐ 750 ☐ 751 ☐ 752 ☐ 753 ☐ 754 ☐ 755 ☐ 756 ☐ 757 ☐ 758 ☐ 759 ☐ 760 ☐ 761 ☐ 762 ☐ 763 ☐ 764 ☐ 765 ☐ 766 ☐ 767 ☐ 768 ☐ 769 ☐ 770 ☐ 771 ☐ 772 ☐ 773 ☐ 774 ☐ 775 ☐ 776 ☐ 777 ☐ 778 ☐ 779 ☐ 780 ☐ 781 ☐ 782 ☐ 783 ☐ 784 ☐ 785 ☐ 786 ☐ 787 ☐ 788 ☐ 789 ☐ 790 ☐ 791 ☐ 792 ☐ 793 ☐ 794 ☐ 795 ☐ 796 ☐ 797 ☐ 798 ☐ 799 ☐ 800 ☐ 801 ☐ 802 ☐ 803 ☐ 804 ☐ 805 ☐ 806 ☐ 807 ☐ 808 ☐ 809 ☐ 810 ☐ 811 ☐ 812 ☐ 813 ☐ 814 ☐ 815 ☐ 816 ☐ 817 ☐ 818 ☐ 819 ☐ 820 ☐ 821 ☐ 822 ☐ 823 ☐ 824 ☐ 825 ☐ 826 ☐ 827 ☐ 828 ☐ 829 ☐ 830 ☐ 831 ☐ 832 ☐ 833 ☐ 834 ☐ 835 ☐ 836 ☐ 837 ☐ 838 ☐ 839 ☐ 840 ☐ 841 ☐ 842 ☐ 843 ☐ 844 ☐ 845 ☐ 846 ☐ 847 ☐ 848 ☐ 849 ☐ 850 ☐ 851 ☐ 852 ☐ 853 ☐ 854 ☐ 855 ☐ 856 ☐ 857 ☐ 858 ☐ 859 ☐ 860 ☐ 861 ☐ 862 ☐ 863 ☐ 864 ☐ 865 ☐ 866 ☐ 867 ☐ 868 ☐ 869 ☐ 870 ☐ 871 ☐ 872 ☐ 873 ☐ 874 ☐ 875 ☐ 876 ☐ 877 ☐ 878 ☐ 879 ☐ 880 ☐ 881 ☐ 882 ☐ 883 ☐ 884 ☐ 885 ☐ 886 ☐ 887 ☐ 888 ☐ 889 ☐ 890 ☐ 891 ☐ 892 ☐ 893 ☐ 894 ☐ 895 ☐ 896 ☐ 897 ☐ 898 ☐ 899 ☐ 900 ☐ 901 ☐ 902 ☐ 903 ☐ 904 ☐ 905 ☐ 906 ☐ 907 ☐ 908 ☐ 909 ☐ 910 ☐ 911 ☐ 912 ☐ 913 ☐ 914 ☐ 915 ☐ 916 ☐ 917 ☐ 918 ☐ 919 ☐ 920 ☐ 921 ☐ 922 ☐ 923 ☐ 924 ☐ 925 ☐ 926 ☐ 927 ☐ 928 ☐ 929 ☐ 930 ☐ 931 ☐ 932 ☐ 933 ☐ 934 ☐ 935 ☐ 936 ☐ 937 ☐ 938 ☐ 939 ☐ 940 ☐ 941 ☐ 942 ☐ 943 ☐ 944 ☐ 945 ☐ 946 ☐ 947 ☐ 948 ☐ 949 ☐ 950 ☐ 951 ☐ 952 ☐ 953 ☐ 954 ☐ 955 ☐ 956 ☐ 957 ☐ 958 ☐ 959 ☐ 960 ☐ 961 ☐ 962 ☐ 963 ☐ 964 ☐ 965 ☐ 966 ☐ 967 ☐ 968 ☐ 969 ☐ 970 ☐ 971 ☐ 972 ☐ 973 ☐ 974 ☐ 975 ☐ 976 ☐ 977 ☐ 978 ☐ 979 ☐ 980 ☐ 981 ☐ 982 ☐ 983 ☐ 984 ☐ 985 ☐ 986 ☐ 987 ☐ 988 ☐ 989 ☐ 990 ☐ 991 ☐ 992 ☐ 993 ☐ 994 ☐ 995 ☐ 996 ☐ 997 ☐ 998 ☐ 999 ☐ 1000 ☐ 1001 ☐ 1002 ☐ 1003 ☐ 1004 ☐ 1005 ☐ 1006 ☐ 1007 ☐ 1008 ☐ 1009 ☐ 1010 ☐ 1011 ☐ 1012 ☐ 1013 ☐ 1014 ☐ 1015 ☐ 1016 ☐ 1017 ☐ 1018 ☐ 1019 ☐ 1020 ☐ 1021 ☐ 1022 ☐ 1023 ☐ 1024 ☐ 1025 ☐ 1026 ☐ 1027 ☐ 1028 ☐ 1029 ☐ 1030 ☐ 1031 ☐ 1032 ☐ 1033 ☐ 1034 ☐ 1035 ☐ 1036 ☐ 1037 ☐ 1038 ☐ 1039 ☐ 1040 ☐ 1041 ☐ 1042 ☐ 1043 ☐ 1044 ☐ 1045 ☐ 1046 ☐ 1047 ☐ 1048 ☐ 1049 ☐ 1050 ☐ 1051 ☐ 1052 ☐ 1053 ☐ 1054 ☐ 1055 ☐ 1056 ☐ 1057 ☐ 1058 ☐ 1059 ☐ 1060 ☐ 1061 ☐ 1062 ☐ 1063 ☐ 1064 ☐ 1065 ☐ 1066 ☐ 1067 ☐ 1068 ☐ 1069 ☐ 1070 ☐ 1071 ☐ 1072 ☐ 1073 ☐ 1074 ☐ 1075 ☐ 1076 ☐ 1077 ☐ 1078 ☐ 1079 ☐ 1080 ☐ 1081 ☐ 1082 ☐ 1083 ☐ 1084 ☐ 1085 ☐ 1086 ☐ 1087 ☐ 1088 ☐ 1089 ☐ 1090 ☐ 1091 ☐ 1092 ☐ 1093 ☐ 1094 ☐ 1095 ☐ 1096 ☐ 1097 ☐ 1098 ☐ 1099 ☐ 1100 ☐ 1101 ☐ 1102 ☐ 1103 ☐ 1104 ☐ 1105 ☐ 1106 ☐ 1107 ☐ 1108 ☐ 1109 ☐ 1110 ☐ 1111 ☐ 1112 ☐ 1113 ☐ 1114 ☐ 1115 ☐ 1116 ☐ 1117 ☐ 1118 ☐ 1119 ☐ 1120 ☐ 1121 ☐ 1122 ☐ 1123 ☐ 1124 ☐ 1125 ☐ 1126 ☐ 1127 ☐ 1128 ☐ 1129 ☐ 1130 ☐

# APARTMENT

<p>151. How old is it? (Mark one only)</p> <p>*Guide</p> <p>0 - 5 years <input type="radio"/> 1</p> <p>6 - 10 years <input type="radio"/> 2</p> <p>11 years or more <input type="radio"/> 3</p> <p>don't know <input type="radio"/> 4</p>	<p>155. INTERVIEWER CHECK ITEM:</p> <p>If "NO" or "don't know" in supplementary heating in Q.154 A, B, C and D <input type="radio"/> Go to 157</p> <p>Otherwise continue <input type="radio"/></p>
<p>152. About how often do you use the fireplace during the heating season? Is it... (Mark one only)</p> <p>never <input type="radio"/> 1</p> <p>not every week? <input type="radio"/> 2</p> <p>1 - 3 times per week? <input type="radio"/> 3</p> <p>more than 3 times per week <input type="radio"/> 4</p> <p>don't know <input type="radio"/> 5</p>	<p>156. During the last heating season, would you say you used your supplementary heating system...</p> <p>*Guide</p> <p>less than 25% of the time? <input type="radio"/> 1</p> <p>25% to 75% of the time? <input type="radio"/> 2</p> <p>more than 75% of the time? <input type="radio"/> 3</p> <p>don't know <input type="radio"/> 4</p>
<p>153. Do you have a gas burning fireplace in your apartment?</p> <p>yes <input type="radio"/> How many? <input type="text"/></p> <p>no <input type="radio"/></p>	
<p>154. Do you use any of the following types of supplementary heating... (Mark all that apply)</p> <p>*Guide</p> <p>A) wood stove(s)?</p> <p>yes <input type="radio"/> 01</p> <p>no <input type="radio"/> 02</p> <p>don't know <input type="radio"/> 03</p> <p>Go to 154B</p> <p>i) How old is it?</p> <p>0 - 5 years <input type="radio"/> 04</p> <p>6 - 10 years <input type="radio"/> 05</p> <p>11 years or more <input type="radio"/> 06</p> <p>don't know <input type="radio"/> 07</p> <p>ii) On average, how often do you use your wood stove during the heating season? Is it...</p> <p>more than 4 hours per day <input type="radio"/> 08</p> <p>between 1 and 4 hours per day <input type="radio"/> 09</p> <p>less than 1 hour per day but more than 1 hour per week <input type="radio"/> 10</p> <p>less than 1 hour per week <input type="radio"/> 11</p> <p>B) electric baseboard(s)?</p> <p>yes <input type="radio"/> 12</p> <p>no <input type="radio"/> 13</p> <p>don't know <input type="radio"/> 14</p> <p>C) portable heater(s)?</p> <p>yes <input type="radio"/> 15</p> <p>no <input type="radio"/> 16</p> <p>don't know <input type="radio"/> 17</p> <p>Go to 154D</p> <p>ii) What fuel(s) does it use?</p> <p>electricity <input type="radio"/> 18</p> <p>natural gas <input type="radio"/> 19</p> <p>oil <input type="radio"/> 20</p> <p>other <input type="radio"/> 21</p> <p>D) other?</p> <p>yes <input type="radio"/> 22</p> <p>no <input type="radio"/> 23</p> <p>don't know <input type="radio"/> 24</p> <p>Go to 155</p> <p>ii) What fuel does it use?</p> <p>electricity <input type="radio"/> 25</p> <p>natural gas <input type="radio"/> 26</p> <p>oil <input type="radio"/> 27</p> <p>other <input type="radio"/> 28</p>	<p>157. INTERVIEWER CHECK ITEM:</p> <p>*Guide</p> <p>If 145 is "wood" or 148 is "yes" (wood fireplace) or 154A is "yes" (supplementary wood stove) continue <input type="radio"/></p> <p>Otherwise <input type="radio"/> Go to 159</p> <p>158. How many cords of wood do you use in an average year?</p> <p>*Guide</p> <p>less than 1 <input type="radio"/> 1</p> <p>1 - 3 <input type="radio"/> 2</p> <p>4 - 6 <input type="radio"/> 3</p> <p>more than 6 <input type="radio"/> 4</p> <p>don't know <input type="radio"/> 5</p> <p>Go to 160</p> <p>159. What type of cord is it?</p> <p>*Guide</p> <p>each or stove cords (less than 4 ft. X 4 ft. X 8 ft.) <input type="radio"/> 1</p> <p>full (dorm) cord (4 ft. X 4 ft. X 8 ft.) <input type="radio"/> 2</p> <p>other <input type="radio"/> 3</p> <p>don't know <input type="radio"/> 4</p> <p>160. Do you have central air conditioning?</p> <p>yes <input type="radio"/> Go to 161</p> <p>no <input type="radio"/> Go to 166</p>

# E. AIR CONDITIONING / COOLING

## Central Air-conditioning

161. Do you have central air-conditioning in your house?

yes

no

Go to 166

162. INTERVIEWER CHECK ITEM

If "yes" in 76 (heat pump)

Otherwise continue

163. What is its cooling capacity?

\*Guide

BTU/hr

OR

ton(s)

don't know

164. How old is it? (Round up)

\*Guide

- 1 year or less 01 6 - 10 years 07  
2 years 02 11 - 15 years 08  
3 years 03 16 - 20 years 09  
4 years 04 21 years or more 10  
5 years 05  
6 - 7 years 06 don't know 11

165. How often did you use it last summer? Was it (Mark one only)

- never 1  
only a few days 2  
less than half of the summer 3  
about half of the summer 4  
more than half of the summer 5  
don't know 6

## Window or Room Air-conditioners

166. Do you use window or room air conditioners?

\*Guide

yes

no

How many?

Go to 171

167. What is the cooling capacity of your (first/second/third) window or room unit(s)?

\*Guide

Note: Maximum of three. If more than one unit, the one used most often is "first".

a) First BTU/hr

don't know

b) Second BTU/hr

don't know

c) Third BTU/hr

don't know

168. What are the make and model of your (first/second/third) unit? (Code "999" for "don't know" in Make or Model)

\*Guide

First

Make

OR Other (Specify)

Model number

Second

Make

OR Other (Specify)

Model number

Third

Make

OR Other (Specify)

Model number

169. How old is your (first/second/third) window or room unit? (Round up)

\*Guide

- |                  | First | Second | Third |
|------------------|-------|--------|-------|
| 1 year or less   | 01    | 12     | 23    |
| 2 years          | 02    | 13     | 24    |
| 3 years          | 03    | 14     | 25    |
| 4 years          | 04    | 15     | 26    |
| 5 years          | 05    | 16     | 27    |
| 6 - 7 years      | 06    | 17     | 28    |
| 8 - 10 years     | 07    | 18     | 29    |
| 11 - 15 years    | 08    | 19     | 30    |
| 16 - 20 years    | 09    | 20     | 31    |
| 21 years or more | 10    | 21     | 32    |
| don't know       | 11    | 22     | 33    |



170. How often did you use your first window or room air conditioner last summer? (The one used most often or "first" in 167)

- never? ☐ 1
- only a few days? ☐ 2
- less than half of the summer? ☐ 3
- about half of the summer? ☐ 4
- most of the summer? ☐ 5
- don't know ☐ 6

171. Do you use ceiling fans?

- yes ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11 ☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22 ☐ 23 ☐ 24 ☐ 25 ☐ 26 ☐ 27 ☐ 28 ☐ 29 ☐ 30 ☐ 31 ☐ 32 ☐ 33 ☐ 34 ☐ 35 ☐ 36 ☐ 37 ☐ 38 ☐ 39 ☐ 40 ☐ 41 ☐ 42 ☐ 43 ☐ 44 ☐ 45 ☐ 46 ☐ 47 ☐ 48 ☐ 49 ☐ 50 ☐ 51 ☐ 52 ☐ 53 ☐ 54 ☐ 55 ☐ 56 ☐ 57 ☐ 58 ☐ 59 ☐ 60 ☐ 61 ☐ 62 ☐ 63 ☐ 64 ☐ 65 ☐ 66 ☐ 67 ☐ 68 ☐ 69 ☐ 70 ☐ 71 ☐ 72 ☐ 73 ☐ 74 ☐ 75 ☐ 76 ☐ 77 ☐ 78 ☐ 79 ☐ 80 ☐ 81 ☐ 82 ☐ 83 ☐ 84 ☐ 85 ☐ 86 ☐ 87 ☐ 88 ☐ 89 ☐ 90 ☐ 91 ☐ 92 ☐ 93 ☐ 94 ☐ 95 ☐ 96 ☐ 97 ☐ 98 ☐ 99 ☐ 100 ☐ 101 ☐ 102 ☐ 103 ☐ 104 ☐ 105 ☐ 106 ☐ 107 ☐ 108 ☐ 109 ☐ 110 ☐ 111 ☐ 112 ☐ 113 ☐ 114 ☐ 115 ☐ 116 ☐ 117 ☐ 118 ☐ 119 ☐ 120 ☐ 121 ☐ 122 ☐ 123 ☐ 124 ☐ 125 ☐ 126 ☐ 127 ☐ 128 ☐ 129 ☐ 130 ☐ 131 ☐ 132 ☐ 133 ☐ 134 ☐ 135 ☐ 136 ☐ 137 ☐ 138 ☐ 139 ☐ 140 ☐ 141 ☐ 142 ☐ 143 ☐ 144 ☐ 145 ☐ 146 ☐ 147 ☐ 148 ☐ 149 ☐ 150 ☐ 151 ☐ 152 ☐ 153 ☐ 154 ☐ 155 ☐ 156 ☐ 157 ☐ 158 ☐ 159 ☐ 160 ☐ 161 ☐ 162 ☐ 163 ☐ 164 ☐ 165 ☐ 166 ☐ 167 ☐ 168 ☐ 169 ☐ 170 ☐ 171 ☐ 172 ☐ 173 ☐ 174 ☐ 175 ☐ 176 ☐ 177 ☐ 178 ☐ 179 ☐ 180 ☐ 181 ☐ 182 ☐ 183 ☐ 184 ☐ 185 ☐ 186 ☐ 187 ☐ 188 ☐ 189 ☐ 190 ☐ 191 ☐ 192 ☐ 193 ☐ 194 ☐ 195 ☐ 196 ☐ 197 ☐ 198 ☐ 199 ☐ 200 ☐ 201 ☐ 202 ☐ 203 ☐ 204 ☐ 205 ☐ 206 ☐ 207 ☐ 208 ☐ 209 ☐ 210 ☐ 211 ☐ 212 ☐ 213 ☐ 214 ☐ 215 ☐ 216 ☐ 217 ☐ 218 ☐ 219 ☐ 220 ☐ 221 ☐ 222 ☐ 223 ☐ 224 ☐ 225 ☐ 226 ☐ 227 ☐ 228 ☐ 229 ☐ 230 ☐ 231 ☐ 232 ☐ 233 ☐ 234 ☐ 235 ☐ 236 ☐ 237 ☐ 238 ☐ 239 ☐ 240 ☐ 241 ☐ 242 ☐ 243 ☐ 244 ☐ 245 ☐ 246 ☐ 247 ☐ 248 ☐ 249 ☐ 250 ☐ 251 ☐ 252 ☐ 253 ☐ 254 ☐ 255 ☐ 256 ☐ 257 ☐ 258 ☐ 259 ☐ 260 ☐ 261 ☐ 262 ☐ 263 ☐ 264 ☐ 265 ☐ 266 ☐ 267 ☐ 268 ☐ 269 ☐ 270 ☐ 271 ☐ 272 ☐ 273 ☐ 274 ☐ 275 ☐ 276 ☐ 277 ☐ 278 ☐ 279 ☐ 280 ☐ 281 ☐ 282 ☐ 283 ☐ 284 ☐ 285 ☐ 286 ☐ 287 ☐ 288 ☐ 289 ☐ 290 ☐ 291 ☐ 292 ☐ 293 ☐ 294 ☐ 295 ☐ 296 ☐ 297 ☐ 298 ☐ 299 ☐ 300 ☐ 301 ☐ 302 ☐ 303 ☐ 304 ☐ 305 ☐ 306 ☐ 307 ☐ 308 ☐ 309 ☐ 310 ☐ 311 ☐ 312 ☐ 313 ☐ 314 ☐ 315 ☐ 316 ☐ 317 ☐ 318 ☐ 319 ☐ 320 ☐ 321 ☐ 322 ☐ 323 ☐ 324 ☐ 325 ☐ 326 ☐ 327 ☐ 328 ☐ 329 ☐ 330 ☐ 331 ☐ 332 ☐ 333 ☐ 334 ☐ 335 ☐ 336 ☐ 337 ☐ 338 ☐ 339 ☐ 340 ☐ 341 ☐ 342 ☐ 343 ☐ 344 ☐ 345 ☐ 346 ☐ 347 ☐ 348 ☐ 349 ☐ 350 ☐ 351 ☐ 352 ☐ 353 ☐ 354 ☐ 355 ☐ 356 ☐ 357 ☐ 358 ☐ 359 ☐ 360 ☐ 361 ☐ 362 ☐ 363 ☐ 364 ☐ 365 ☐ 366 ☐ 367 ☐ 368 ☐ 369 ☐ 370 ☐ 371 ☐ 372 ☐ 373 ☐ 374 ☐ 375 ☐ 376 ☐ 377 ☐ 378 ☐ 379 ☐ 380 ☐ 381 ☐ 382 ☐ 383 ☐ 384 ☐ 385 ☐ 386 ☐ 387 ☐ 388 ☐ 389 ☐ 390 ☐ 391 ☐ 392 ☐ 393 ☐ 394 ☐ 395 ☐ 396 ☐ 397 ☐ 398 ☐ 399 ☐ 400 ☐ 401 ☐ 402 ☐ 403 ☐ 404 ☐ 405 ☐ 406 ☐ 407 ☐ 408 ☐ 409 ☐ 410 ☐ 411 ☐ 412 ☐ 413 ☐ 414 ☐ 415 ☐ 416 ☐ 417 ☐ 418 ☐ 419 ☐ 420 ☐ 421 ☐ 422 ☐ 423 ☐ 424 ☐ 425 ☐ 426 ☐ 427 ☐ 428 ☐ 429 ☐ 430 ☐ 431 ☐ 432 ☐ 433 ☐ 434 ☐ 435 ☐ 436 ☐ 437 ☐ 438 ☐ 439 ☐ 440 ☐ 441 ☐ 442 ☐ 443 ☐ 444 ☐ 445 ☐ 446 ☐ 447 ☐ 448 ☐ 449 ☐ 450 ☐ 451 ☐ 452 ☐ 453 ☐ 454 ☐ 455 ☐ 456 ☐ 457 ☐ 458 ☐ 459 ☐ 460 ☐ 461 ☐ 462 ☐ 463 ☐ 464 ☐ 465 ☐ 466 ☐ 467 ☐ 468 ☐ 469 ☐ 470 ☐ 471 ☐ 472 ☐ 473 ☐ 474 ☐ 475 ☐ 476 ☐ 477 ☐ 478 ☐ 479 ☐ 480 ☐ 481 ☐ 482 ☐ 483 ☐ 484 ☐ 485 ☐ 486 ☐ 487 ☐ 488 ☐ 489 ☐ 490 ☐ 491 ☐ 492 ☐ 493 ☐ 494 ☐ 495 ☐ 496 ☐ 497 ☐ 498 ☐ 499 ☐ 500 ☐ 501 ☐ 502 ☐ 503 ☐ 504 ☐ 505 ☐ 506 ☐ 507 ☐ 508 ☐ 509 ☐ 510 ☐ 511 ☐ 512 ☐ 513 ☐ 514 ☐ 515 ☐ 516 ☐ 517 ☐ 518 ☐ 519 ☐ 520 ☐ 521 ☐ 522 ☐ 523 ☐ 524 ☐ 525 ☐ 526 ☐ 527 ☐ 528 ☐ 529 ☐ 530 ☐ 531 ☐ 532 ☐ 533 ☐ 534 ☐ 535 ☐ 536 ☐ 537 ☐ 538 ☐ 539 ☐ 540 ☐ 541 ☐ 542 ☐ 543 ☐ 544 ☐ 545 ☐ 546 ☐ 547 ☐ 548 ☐ 549 ☐ 550 ☐ 551 ☐ 552 ☐ 553 ☐ 554 ☐ 555 ☐ 556 ☐ 557 ☐ 558 ☐ 559 ☐ 560 ☐ 561 ☐ 562 ☐ 563 ☐ 564 ☐ 565 ☐ 566 ☐ 567 ☐ 568 ☐ 569 ☐ 570 ☐ 571 ☐ 572 ☐ 573 ☐ 574 ☐ 575 ☐ 576 ☐ 577 ☐ 578 ☐ 579 ☐ 580 ☐ 581 ☐ 582 ☐ 583 ☐ 584 ☐ 585 ☐ 586 ☐ 587 ☐ 588 ☐ 589 ☐ 590 ☐ 591 ☐ 592 ☐ 593 ☐ 594 ☐ 595 ☐ 596 ☐ 597 ☐ 598 ☐ 599 ☐ 600 ☐ 601 ☐ 602 ☐ 603 ☐ 604 ☐ 605 ☐ 606 ☐ 607 ☐ 608 ☐ 609 ☐ 610 ☐ 611 ☐ 612 ☐ 613 ☐ 614 ☐ 615 ☐ 616 ☐ 617 ☐ 618 ☐ 619 ☐ 620 ☐ 621 ☐ 622 ☐ 623 ☐ 624 ☐ 625 ☐ 626 ☐ 627 ☐ 628 ☐ 629 ☐ 630 ☐ 631 ☐ 632 ☐ 633 ☐ 634 ☐ 635 ☐ 636 ☐ 637 ☐ 638 ☐ 639 ☐ 640 ☐ 641 ☐ 642 ☐ 643 ☐ 644 ☐ 645 ☐ 646 ☐ 647 ☐ 648 ☐ 649 ☐ 650 ☐ 651 ☐ 652 ☐ 653 ☐ 654 ☐ 655 ☐ 656 ☐ 657 ☐ 658 ☐ 659 ☐ 660 ☐ 661 ☐ 662 ☐ 663 ☐ 664 ☐ 665 ☐ 666 ☐ 667 ☐ 668 ☐ 669 ☐ 670 ☐ 671 ☐ 672 ☐ 673 ☐ 674 ☐ 675 ☐ 676 ☐ 677 ☐ 678 ☐ 679 ☐ 680 ☐ 681 ☐ 682 ☐ 683 ☐ 684 ☐ 685 ☐ 686 ☐ 687 ☐ 688 ☐ 689 ☐ 690 ☐ 691 ☐ 692 ☐ 693 ☐ 694 ☐ 695 ☐ 696 ☐ 697 ☐ 698 ☐ 699 ☐ 700 ☐ 701 ☐ 702 ☐ 703 ☐ 704 ☐ 705 ☐ 706 ☐ 707 ☐ 708 ☐ 709 ☐ 710 ☐ 711 ☐ 712 ☐ 713 ☐ 714 ☐ 715 ☐ 716 ☐ 717 ☐ 718 ☐ 719 ☐ 720 ☐ 721 ☐ 722 ☐ 723 ☐ 724 ☐ 725 ☐ 726 ☐ 727 ☐ 728 ☐ 729 ☐ 730 ☐ 731 ☐ 732 ☐ 733 ☐ 734 ☐ 735 ☐ 736 ☐ 737 ☐ 738 ☐ 739 ☐ 740 ☐ 741 ☐ 742 ☐ 743 ☐ 744 ☐ 745 ☐ 746 ☐ 747 ☐ 748 ☐ 749 ☐ 750 ☐ 751 ☐ 752 ☐ 753 ☐ 754 ☐ 755 ☐ 756 ☐ 757 ☐ 758 ☐ 759 ☐ 760 ☐ 761 ☐ 762 ☐ 763 ☐ 764 ☐ 765 ☐ 766 ☐ 767 ☐ 768 ☐ 769 ☐ 770 ☐ 771 ☐ 772 ☐ 773 ☐ 774 ☐ 775 ☐ 776 ☐ 777 ☐ 778 ☐ 779 ☐ 780 ☐ 781 ☐ 782 ☐ 783 ☐ 784 ☐ 785 ☐ 786 ☐ 787 ☐ 788 ☐ 789 ☐ 790 ☐ 791 ☐ 792 ☐ 793 ☐ 794 ☐ 795 ☐ 796 ☐ 797 ☐ 798 ☐ 799 ☐ 800 ☐ 801 ☐ 802 ☐ 803 ☐ 804 ☐ 805 ☐ 806 ☐ 807 ☐ 808 ☐ 809 ☐ 810 ☐ 811 ☐ 812 ☐ 813 ☐ 814 ☐ 815 ☐ 816 ☐ 817 ☐ 818 ☐ 819 ☐ 820 ☐ 821 ☐ 822 ☐ 823 ☐ 824 ☐ 825 ☐ 826 ☐ 827 ☐ 828 ☐ 829 ☐ 830 ☐ 831 ☐ 832 ☐ 833 ☐ 834 ☐ 835 ☐ 836 ☐ 837 ☐ 838 ☐ 839 ☐ 840 ☐ 841 ☐ 842 ☐ 843 ☐ 844 ☐ 845 ☐ 846 ☐ 847 ☐ 848 ☐ 849 ☐ 850 ☐ 851 ☐ 852 ☐ 853 ☐ 854 ☐ 855 ☐ 856 ☐ 857 ☐ 858 ☐ 859 ☐ 860 ☐ 861 ☐ 862 ☐ 863 ☐ 864 ☐ 865 ☐ 866 ☐ 867 ☐ 868 ☐ 869 ☐ 870 ☐ 871 ☐ 872 ☐ 873 ☐ 874 ☐ 875 ☐ 876 ☐ 877 ☐ 878 ☐ 879 ☐ 880 ☐ 881 ☐ 882 ☐ 883 ☐ 884 ☐ 885 ☐ 886 ☐ 887 ☐ 888 ☐ 889 ☐ 890 ☐ 891 ☐ 892 ☐ 893 ☐ 894 ☐ 895 ☐ 896 ☐ 897 ☐ 898 ☐ 899 ☐ 900 ☐ 901 ☐ 902 ☐ 903 ☐ 904 ☐ 905 ☐ 906 ☐ 907 ☐ 908 ☐ 909 ☐ 910 ☐ 911 ☐ 912 ☐ 913 ☐ 914 ☐ 915 ☐ 916 ☐ 917 ☐ 918 ☐ 919 ☐ 920 ☐ 921 ☐ 922 ☐ 923 ☐ 924 ☐ 925 ☐ 926 ☐ 927 ☐ 928 ☐ 929 ☐ 930 ☐ 931 ☐ 932 ☐ 933 ☐ 934 ☐ 935 ☐ 936 ☐ 937 ☐ 938 ☐ 939 ☐ 940 ☐ 941 ☐ 942 ☐ 943 ☐ 944 ☐ 945 ☐ 946 ☐ 947 ☐ 948 ☐ 949 ☐ 950 ☐ 951 ☐ 952 ☐ 953 ☐ 954 ☐ 955 ☐ 956 ☐ 957 ☐ 958 ☐ 959 ☐ 960 ☐ 961 ☐ 962 ☐ 963 ☐ 964 ☐ 965 ☐ 966 ☐ 967 ☐ 968 ☐ 969 ☐ 970 ☐ 971 ☐ 972 ☐ 973 ☐ 974 ☐ 975 ☐ 976 ☐ 977 ☐ 978 ☐ 979 ☐ 980 ☐ 981 ☐ 982 ☐ 983 ☐ 984 ☐ 985 ☐ 986 ☐ 987 ☐ 988 ☐ 989 ☐ 990 ☐ 991 ☐ 992 ☐ 993 ☐ 994 ☐ 995 ☐ 996 ☐ 997 ☐ 998 ☐ 999 ☐ 1000 ☐ 1001 ☐ 1002 ☐ 1003 ☐ 1004 ☐ 1005 ☐ 1006 ☐ 1007 ☐ 1008 ☐ 1009 ☐ 1010 ☐ 1011 ☐ 1012 ☐ 1013 ☐ 1014 ☐ 1015 ☐ 1016 ☐ 1017 ☐ 1018 ☐ 1019 ☐ 1020 ☐ 1021 ☐ 1022 ☐ 1023 ☐ 1024 ☐ 1025 ☐ 1026 ☐ 1027 ☐ 1028 ☐ 1029 ☐ 1030 ☐ 1031 ☐ 1032 ☐ 1033 ☐ 1034 ☐ 1035 ☐ 1036 ☐ 1037 ☐ 1038 ☐ 1039 ☐ 1040 ☐ 1041 ☐ 1042 ☐ 1043 ☐ 1044 ☐ 1045 ☐ 1046 ☐ 1047 ☐ 1048 ☐ 1049 ☐ 1050 ☐ 1051 ☐ 1052 ☐ 1053 ☐ 1054 ☐ 1055 ☐ 1056 ☐ 1057 ☐ 1058 ☐ 1059 ☐ 1060 ☐ 1061 ☐ 1062 ☐ 1063 ☐ 1064 ☐ 1065 ☐ 1066 ☐ 1067 ☐ 1068 ☐ 1069 ☐ 1070 ☐ 1071 ☐ 1072 ☐ 1073 ☐ 1074 ☐ 1075 ☐ 1076 ☐ 1077 ☐ 1078 ☐ 1079 ☐ 1080 ☐ 1081 ☐ 1082 ☐ 1083 ☐ 1084 ☐ 1085 ☐ 1086 ☐ 1087 ☐ 1088 ☐ 1089 ☐ 1090 ☐ 1091 ☐ 1092 ☐ 1093 ☐ 1094 ☐ 1095 ☐ 1096 ☐ 1097 ☐ 1098 ☐ 1099 ☐ 1100 ☐ 1101 ☐ 1102 ☐ 1103 ☐ 1104 ☐ 1105 ☐ 1106 ☐ 1107 ☐ 1108 ☐ 1109 ☐ 1110 ☐ 1111 ☐ 1112 ☐ 1113 ☐ 1114 ☐ 1115 ☐ 1116 ☐ 1117 ☐ 1118 ☐ 1119 ☐ 1120 ☐ 1121 ☐ 1122 ☐ 1123 ☐ 1124 ☐ 1125 ☐ 1126 ☐ 1127 ☐ 1128 ☐ 1129 ☐ 1130 ☐ 1131 ☐ 1132 ☐ 1133 ☐ 1134 ☐ 1135 ☐ 1136 ☐ 1137 ☐ 1138 ☐ 1139 ☐ 1140 ☐ 1141 ☐ 1142 ☐ 1143 ☐ 1144 ☐ 1145 ☐ 1146 ☐ 1147 ☐ 1148 ☐ 1149 ☐ 1150 ☐ 1151 ☐ 1152 ☐ 1153 ☐ 1154 ☐ 1155 ☐ 1156 ☐ 1157 ☐ 1158 ☐ 1159 ☐ 1160 ☐ 1161 ☐ 1162 ☐ 1163 ☐ 1164 ☐ 1165 ☐ 1166 ☐ 1167 ☐ 1168 ☐ 1169 ☐ 1170 ☐ 1171 ☐ 1172 ☐ 1173 ☐ 1174 ☐ 1175 ☐ 1176 ☐ 1177 ☐ 1178 ☐ 1179 ☐ 1180 ☐ 1181 ☐ 1182 ☐ 1183 ☐ 1184 ☐ 1185 ☐ 1186 ☐ 1187 ☐ 1188 ☐ 1189 ☐ 1190 ☐ 1191 ☐ 1192 ☐ 1193 ☐ 1194 ☐ 1195 ☐ 1196 ☐ 1197 ☐ 1198 ☐ 1199 ☐ 1200



# G. LIGHTING

Now, I'd like to ask about the type and number of light bulbs used in your (house/apartment). Please count all the light bulbs in fixtures.

181. Do you use any halogen light bulbs indoors or outdoors? (include spot lights)

\*Guide

yes

1

How many...  
(If none, enter "0")

indoor?

outdoor?

no

2

don't know

3

182. Do you use any fluorescent lighting indoors or outdoors?

\*Guide

yes

4

How many...  
(If none, enter "0")

indoor?

outdoor?

no

5

don't know

6

To arrive at the total number of ordinary (incandescent) light bulbs used, I'll ask about each room separately.

183. How many ordinary (incandescent) light bulbs do you have in your...

\*Guide

(Enter "0" if not applicable)

kitchen?

living/dining area?

bedrooms/closets?

family room?

bathrooms?

hallways?

basement?

(if applicable)

attic?

(if applicable)

other areas inside the house?

garage?

(if applicable)

outdoors?

(include spot lights)

# H. DWELLING and HOUSEHOLD

184. In what year was your dwelling built?

\*Guide

Before 1941

1

1941 - 1950

2

1951 - 1977

3

1978 - 1982

4

1983 - 1985

5

1989 or later

6

don't know

7

185. In what year did you or your household move in? (If not all at the same time, give the earliest year)

Before 1960

1

1960 - 1970

2

1971 - 1980

3

1981 - 1991

4

1992

5

month?

(0) - Jan, 02 - Feb,

...12 - Dec)

1993

6

186. To better understand the energy use in your home, please tell me how many of the people living here are usually at home during the day, on an average weekday? Please include children.

(Enter "0" if "nobody")

number

187. Do you own and use a vacation home (cottage, chalet, trailer home) in Canada?

yes

1

no

2

Go to 190

188. How often do you usually heat it during the heating season? (Mark one only)

never?

1

only a few days?

2

less than half of the season?

3

about half of the season?

4

most of the season?

5

don't know

6

189. Do you use a refrigerator there?

yes

1

no

2

190. What is your best estimate of the total income of all household members from all sources in 1992 before taxes and deductions? Was the total household income...

less than \$10,000?

01

\$10,000 to under \$15,000

02

\$15,000 to under \$20,000

03

\$20,000 to under \$25,000

04

\$25,000 to under \$30,000

05

\$30,000 to under \$35,000

06

\$35,000 to under \$40,000

07

\$40,000 to under \$50,000

08

\$50,000 to under \$60,000

09

\$60,000 to under \$80,000

10

\$80,000 or more

11

don't know

12

refusal

13

# **I. GENERAL ENERGY INFORMATION**

196. END TIME

191. Can you please tell me if you pay the bills for the following utilities:

THANK YOU VERY MUCH FOR YOUR PARTICIPATION IN THIS SURVEY.

Note: if respondent is a renter, mark "no" when bill is included in rent.

NOTES:

yes no

electricity 1 2

heating oil 3 4

natural gas 5 6

192. If "no" for all provinces except Nfld, P.E.I., N.S. and N.B.

Is natural gas available in your neighbourhood?

yes 7

no 8

don't know 9

## **193. INTERVIEWER CHECK ITEM:**

If "NO" to the three utilities in 191 1 Go to 196  
Otherwise continue 2

194. May we have your permission to ask your energy supplier(s) about how much energy was used by this household in the past year? This information will be used for statistical purposes only. Energy use of individual households will not be disclosed to any person or agency.

yes 3  
no 4 Go to 196

195. Please ask name (and location) only of the utilities for which "yes" was marked in 191.

A: What is the name of your HYDRO company?

Name

don't know 7

not applicable 2

B: What is the name and location of your NATURAL GAS supplier?

\* Guide

Name

City/town

don't know 3

not applicable 4

C: What is the name and location of your OIL supplier?

\* Guide

Name

City/town

don't know 5

not applicable 6

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
20	RELATE01	1	0043	RELATIONSHIP TO HEAD OF 1ST MEMBER	
				1 HEAD OF FAMILY	10929/10295189
				2 SPOUSE	40/ 53786
				3 SON OR DAUGHTER (NATURAL, ADOPTED OR STEP)	10/ 7622
				4 PARENT (PARENT-IN-LAW)	1/ 172
				5 SON-IN-LAW, DAUGHTER-IN-LAW	0/ 0
				6 OTHER	2/ 2447
21	LFSTAT01	1	0044	LABOUR FORCE STATUS OF 1ST MEMBER	
				1 EMPLOYED	6205/ 6193559
				2 UNEMPLOYED OR NOT IN LABOUR FORCE	4777/ 4165658
22	EDUC01	1	0045	EDUCATION OF 1ST MEMBER	
				1 0-8 YEARS	2155/ 1498568
				2 SOME SECONDARY	2315/ 1822377
				3 GRADUATED FROM HIGH SCHOOL	1882/ 2056005
				4 SOME POST-SECONDARY	727/ 827158
				5 POST-SECONDARY CERTIFICATE OR DIPLOMA	2752/ 2663008
				6 UNIVERSITY DEGREE	1151/ 1492101
23	AGE02	2	0046-0047	AGE OF 2ND MEMBER	
				NOT APPLICABLE	2781/ 2837962
				01 15-19	275/ 270465
				02 20-24	533/ 555744
				03 25-29	931/ 869545
				04 30-34	1144/ 1077320
				05 35-39	1098/ 1008811
				06 40-44	936/ 834711
				07 45-49	779/ 693698
				08 50-54	571/ 478222
				09 55-59	508/ 490658
				10 60-64	465/ 454706
				11 65-69	397/ 316223
				12 70-99	564/ 471152
24	SEX02	1	0048	SEX OF 2ND MEMBER	
				NOT APPLICABLE	2781/ 2837962
				1 MALE	1217/ 1505755
				2 FEMALE	6984/ 6015500
25	MARST02	1	0049	MARITAL STATUS OF 2ND MEMBER	
				NOT APPLICABLE	2781/ 2837962
				1 NOW MARRIED OR COMMON-LAW	7252/ 6552867
				2 SINGLE NEVER MARRIED	804/ 835523
				3 OTHER	145/ 132864
26	RELATE02	1	0050	RELATIONSHIP TO HEAD OF 2ND MEMBER	
				NOT APPLICABLE	2781/ 2837962
				1 HEAD OF FAMILY	314/ 376951
				2 SPOUSE	7148/ 6404384
				3 SON OR DAUGHTER (NATURAL, ADOPTED OR STEP)	553/ 525101
				4 PARENT (PARENT-IN-LAW)	51/ 62630
				5 SON-IN-LAW, DAUGHTER-IN-LAW	12/ 7315
				6 OTHER	123/ 144874
27	LFSTAT02	1	0051	LABOUR FORCE STATUS OF 2ND MEMBER	
				NOT APPLICABLE	2781/ 2837962
				1 EMPLOYED	4290/ 4233492
				2 UNEMPLOYED OR NOT IN LABOUR FORCE	3911/ 3287763



FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
28	EDUC02	1	0052	EDUCATION OF 2ND MEMBER	
				NOT APPLICABLE	2781/ 2837962
			1	0-8 YEARS	1050/ 844556
			2	SOME SECONDARY	1861/ 1440962
			3	GRADUATED FROM HIGH SCHOOL	1866/ 1852923
			4	SOME POST-SECONDARY	585/ 635266
			5	POST-SECONDARY CERTIFICATE OR DIPLOMA	2134/ 1819810
			6	UNIVERSITY DEGREE	705/ 927737
29	AGE03	2	0053-0054	AGE OF 3RD MEMBER	
				NOT APPLICABLE	8535/ 8026443
			01	15-19	1175/ 965143
			02	20-24	619/ 595440
			03	25-29	236/ 255089
			04	30-34	112/ 157978
			05	35-39	74/ 64554
			06	40-44	54/ 56539
			07	45-49	27/ 16914
			08	50-54	22/ 22725
			09	55-59	12/ 14561
			10	60-64	23/ 41080
			11	65-69	22/ 57853
			12	70-99	71/ 84898
30	SEX03	1	0055	SEX OF 3RD MEMBER	
				NOT APPLICABLE	8535/ 8026443
			1	MALE	1415/ 1269067
			2	FEMALE	1032/ 1063707
31	MARST03	1	0056	MARITAL STATUS OF 3RD MEMBER	
				NOT APPLICABLE	8535/ 8026443
			1	NOW MARRIED OR COMMON-LAW	103/ 143983
			2	SINGLE NEVER MARRIED	2206/ 1999117
			3	OTHER	138/ 189673
32	RELATE03	1	0057	RELATIONSHIP TO HEAD OF 3RD MEMBER	
				NOT APPLICABLE	8535/ 8026443
			1	HEAD OF FAMILY	109/ 131463
			2	SPOUSE	17/ 24967
			3	SON OR DAUGHTER (NATURAL, ADOPTED OR STEP)	2119/ 1885754
			4	PARENT (PARENT-IN-LAW)	90/ 163037
			5	SON-IN-LAW, DAUGHTER-IN-LAW	19/ 8708
			6	OTHER	93/ 118846
33	LFSTAT03	1	0058	LABOUR FORCE STATUS OF 3RD MEMBER	
				NOT APPLICABLE	8535/ 8026443
			1	EMPLOYED	1078/ 1119139
			2	UNEMPLOYED OR NOT IN LABOUR FORCE	1369/ 1213635
34	EDUC03	1	0059	RECODED EDUCATION OF 3RD MEMBER	
				NOT APPLICABLE	8535/ 8026443
			1	0-8 YEARS	248/ 253341
			2	SOME SECONDARY	986/ 760066
			3	GRADUATED FROM HIGH SCHOOL	500/ 462976
			4	SOME POST-SECONDARY	301/ 351511
			5	POST-SECONDARY CERTIFICATE OR DIPLOMA	296/ 332004
			6	UNIVERSITY DEGREE	116/ 172876



FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
35	COLLECT	1	0060	COLLECTION TYPE  BLANK - TELEPHONE INTERVIEW P PERSONAL INTERVIEW	10030/ 9554223 952/ 804994
NOTE: <u>FIELDS 35-38 (COLLECT - Q17) WERE NOT EDITED</u>					
36	Q13	1	0061	DID YOU RECEIVE THE GUIDE WE MAILED YOU?  1 YES 2 NO 3 DON'T KNOW UNDECLARED	8385/ 7797654 1733/ 1733617 462/ 480398 402/ 347548
37	Q14	1	0062	BEST PERSON TO ANSWER QUESTIONS?  1 LFS RESPONDENT 2 SOMEONE ELSE UNDECLARED	7743/ 7710548 1894/ 1659603 1345/ 989066
38	Q17	1	0063	HAVE YOU COMPLETED THE GUIDE?  1 YES 2 NO UNDECLARED	5966/ 5388136 3835/ 4008028 1181/ 963053
39	Q21	1	0064	HOW MANY REFRIGERATORS DO YOU USE?  1 ONE 2 TWO 3 MORE THAN TWO 4 NONE	9130/ 8426683 1775/ 1847052 44/ 39490 33/ 45992
40	Q22AFLG	1	0065	MAIN REFRIGERATOR: MAKE & MODEL FLAG  NOT APPLICABLE 0 INVALID DATA 1 POTENTIALLY VALID DATA 9 NOT STATED	33/ 45992 222/ 203477 10698/10065812 29/ 43935
NOTE: <u>MAKE AND MODEL ARE NOT ON THE FILE. NRCAN IS IN CHARGE OF THIS DATA. INVALID DATA: INCLUDES DON'T KNOW POTENTIALLY VALID DATA: NRCAN WILL DETERMINE IF DATA IS USEFUL.</u>					
41	Q228FLG	1	0066	SECOND REFRIGERATOR: MAKE & MODEL FLAG  NOT APPLICABLE 0 INVALID DATA 1 POTENTIALLY VALID DATA 9 NOT STATED	9163/ 8472675 136/ 131438 1628/ 1698457 55/ 56646

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED	
42	Q23A	2	0067-0068	AGE MAIN REFRIGERATOR?		
				NOT APPLICABLE	33/	45992
				01 1 YEAR OR LESS	732/	871701
				02 2 YEARS	573/	738822
				03 3 YEARS	556/	547825
				04 4 YEARS	499/	441187
				05 5 YEARS	653/	648864
				06 6-7 YEARS	850/	839907
				07 8-10 YEARS	1726/	1810816
				08 11-15 YEARS	2001/	1754508
				09 16-20 YEARS	1326/	975005
				10 21 YEARS OR MORE	835/	707423
				11 DON'T KNOW	973/	780138
				99 NOT STATED	225/	197030
43	Q23B	2	0069-0070	AGE SECOND REFRIGERATOR?		
				NOT APPLICABLE	9163/	8472675
				01 1 YEAR OR LESS	31/	59132
				02 2 YEARS	18/	24485
				03 3 YEARS	23/	19934
				04 4 YEARS	25/	29522
				05 5 YEARS	32/	31131
				06 6-7 YEARS	47/	48779
				07 8-10 YEARS	143/	144712
				08 11-15 YEARS	258/	344950
				09 16-20 YEARS	284/	324374
				10 21 YEARS OR MORE	686/	575674
				11 DON'T KNOW	142/	128823
				99 NOT STATED	130/	155025
44	Q24A	1	0071	DOORS MAIN REFRIGERATOR?		
				NOT APPLICABLE	33/	4599.
				1 SINGLE	2228/	1761952
				2 SIDE BY SIDE	550/	757516
				3 TOP & BOTTOM WITH FREEZER ON TOP	7820/	7261928
				4 TOP & BOTTOM WITH FREEZER ON THE BOTTOM	102/	179682
				5 THREE DOORS	155/	287253
				9 NOT STATED	94/	64895
45	Q24B	1	0072	DOORS SECOND REFRIGERATOR?		
				NOT APPLICABLE	9163/	8472675
				1 SINGLE	1025/	916350
				2 SIDE BY SIDE	36/	45228
				3 TOP & BOTTOM WITH FREEZER ON TOP	638/	794129
				4 TOP & BOTTOM WITH FREEZER ON THE BOTTOM	13/	14204
				5 THREE DOORS	1/	164
				9 NOT STATED	106/	116466
46	Q25A	1	0073	SIZE OF MAIN REFRIGERATOR?		
				NOT APPLICABLE	33/	45992
				1 BAR, LESS THAN 6.5 CU. FT	35/	53287
				2 SMALL, 6.5 - 12.4 CU. FT	1136/	894055
				3 MEDIUM, 12.5 - 16.4 CU. FT	5758/	4940961
				4 LARGE, 16.5 - 20.0 CU. FT	3680/	3964564
				5 VERY LARGE, MORE THAN 20.0 CU. FT	176/	258378
				6 DON'T KNOW	44/	87794
				9 NOT STATED	120/	114185

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
47	Q25B	1	0074	SIZE OF SECONDARY REFRIGERATOR?	
				NOT APPLICABLE	9163/ 8472675
				1 BAR, LESS THAN 6.5 CU. FT	175/ 202029
				2 SMALL, 6.5 - 12.4 CU. FT	540/ 375071
				3 MEDIUM, 12.5 - 16.4 CU. FT	703/ 770277
				4 LARGE, 16.5 - 20.0 CU. FT	283/ 407957
				5 VERY LARGE, MORE THAN 20.0 CU. FT	21/ 26269
				6 DON'T KNOW	4/ 6019
				9 NOT STATED	93/ 98920
48	Q26A	1	0075	MAIN REFRIGERATOR FROST-FREE OR MANUALLY DEFROSTED?	
				NOT APPLICABLE	33/ 45992
				1 FROST-FREE	8451/ 8261792
				2 MANUALLY DEFROSTED....	2340/ 1895526
				3 NO FREEZER IN FRIDGE..	50/ 52529
				4 DON'T KNOW	25/ 42884
				9 NOT STATED	83/ 60494
49	Q26B	1	0076	SECOND REFRIGERATOR FROST-FREE OR MANUALLY DEFROSTED?	
				NOT APPLICABLE	9163/ 8472675
				1 FROST-FREE	569/ 750885
				2 MANUALLY DEFROSTED....	1113/ 973023
				3 NO FREEZER IN FRIDGE..	29/ 40282
				4 DON'T KNOW	13/ 25910
				9 NOT STATED	95/ 96441
50	Q27A	1	0077	AUTOMATIC ICE-MAKER IN THE DOOR (MAIN FRIDGE)?	
				NOT APPLICABLE	33/ 45992
				1 YES	298/ 359807
				2 NO	10510/ 9788906
				9 NOT STATED	141/ 164512
51	Q27B	1	0078	AUTOMATIC ICE-MAKER IN THE DOOR (SECOND FRIDGE)?	
				NOT APPLICABLE	9163/ 8472675
				1 YES	14/ 18872
				2 NO	1656/ 1719962
				9 NOT STATED	149/ 147708
52	Q28	1	0079	COOKING APPLIANCES, DO YOU USE A...	
				0 COOKING APPLIANCE INDICATED BUT TYPE NOT STATED	174/ 135030
				1 REGULAR STOVE	9979/ 9311207
				2 BUILT-IN OVEN WITH SEPARATE COOK TOP	710/ 816787
				3 OTHER	89/ 69381
				9 NOT STATED	30/ 26811
				NOTE: CODE=0, COULD BE 1 OR 2 BUT TYPE IS NOT DISCERNABLE	
53	Q28A	1	0080	IF SEPARATE COOK-TOP, WHAT FUEL?	
				NOT APPLICABLE	10068/ 9380588
				1 ELECTRIC	644/ 729098
				2 NATURAL GAS	24/ 36355
				9 NOT STATED	246/ 213176
54	Q28B	16	0081-0096	OTHER COOKING APPLIANCES (SPECIFIED)	
				NOTE: WHEN Q28=3, APPLIANCE SPECIFIED IN TEXT FIELD	

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
55	Q29FLG	1	0097	STOVE: MAKE & MODEL FLAG	
				NOT APPLICABLE	89/ 69381
				0 INVALID DATA	291/ 255849
				1 POTENTIALLY VALID DATA	10551/ 9958885
				9 NOT STATED	51/ 75102
56	Q30	2	0098-0099	HOW OLD IS YOUR (STOVE/OVEN)?	
				01 1 YEAR OR LESS	622/ 669951
				02 2 YEARS	501/ 642671
				03 3 YEARS	461/ 414528
				04 4 YEARS	458/ 420622
				05 5 YEARS	607/ 563869
				06 6-7 YEARS	877/ 841536
				07 8-10 YEARS	1647/ 1650186
				08 11-15 YEARS	2021/ 1895065
				09 16-20 YEARS	1454/ 1101889
				10 21 YEARS OR MORE	1174/ 1169944
				11 DON'T KNOW	1043/ 830366
				99 NOT STATED	117/ 158591
57	Q31	1	0100	WHAT FUEL(S) DOES YOUR (STOVE/OVEN) USE?	
				1 ELECTRICITY ONLY	10291/ 9723562
				2 ELECTRICITY AND NATURAL GAS	40/ 77563
				3 NATURAL GAS ONLY	144/ 257607
				4 OIL	52/ 7712
				5 WOOD	69/ 22956
				6 PROPANE	236/ 82957
				7 OTHER	4/ 1913
				9 NOT STATED	146/ 184948
				NOTE: 1,2,9 - CONTINUE	
				3-7 - GO TO Q35	
58	Q32	1	0101	DOES YOUR OVEN HAVE THE SELF-CLEANING FEATURE?	
				NOT APPLICABLE	505/ 373144
				1 YES	1894/ 2194116
				2 NO	8395/ 7563297
				3 DON'T KNOW	27/ 35477
				9 NOT STATED	161/ 193183
59	Q33	1	0102	HOW OFTEN IS THE SELF-CLEANING FEATURE USED?	
				NOT APPLICABLE	8927/ 7971918
				1 ONCE A YEAR OR LESS	262/ 298878
				2 EVERY 4-6 MONTHS	459/ 567727
				3 EVERY 2-3 MONTHS	470/ 562329
				4 AT LEAST ONCE A MONTH	386/ 430625
				5 NEVER	274/ 302987
				9 NOT STATED	204/ 224753
60	Q34	1	0103	IS IT A CONVECTION OVEN?	
				NOT APPLICABLE	505/ 373144
				1 YES	389/ 473566
				2 NO	9772/ 9180760
				3 DON'T KNOW	21/ 64752
				9 NOT STATED	295/ 266995
61	Q35	1	0104	DO YOU USE AN EXHAUST FAN IN YOUR KITCHEN?	
				1 YES	6262/ 6892254
				2 NO	4654/ 3390253
				3 DON'T KNOW	22/ 1834P
				9 NOT STATED	44/ 583E



FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
62	Q36	1	0105	DOES IT HAVE AN OUTDOOR VENT?  NOT APPLICABLE 1 AN OUTDOOR VENT 2 A CHARCOAL FILTER ONLY 3 DON'T KNOW 9 NOT STATED	4676/ 3408600 3468/ 4359976 2528/ 2087540 239/ 405534 71/ 97566
63	Q37	1	0106	DO YOU USE A MICROWAVE OVEN?  1 YES 2 NO 9 NOT STATED	8658/ 8135851 2286/ 2157643 38/ 65723
64	Q38	1	0107	HOW OFTEN IS YOUR MICROWAVE USED FOR REHEATING?  NOT APPLICABLE 1 EVERYDAY 2 A FEW TIMES A WEEK 3 ONCE A WEEK OR LESS 4 NEVER 5 DON'T KNOW 9 NOT STATED	2286/ 2157643 5494/ 5352597 2510/ 2223371 559/ 460427 62/ 78031 6/ 3728 65/ 83420
65	Q39	1	0108	HOW OFTEN IS YOUR MICROWAVE USED FOR DEFROSTING?  NOT APPLICABLE 1 EVERYDAY 2 A FEW TIMES A WEEK 3 ONCE A WEEK OR LESS 4 NEVER 5 DON'T KNOW 9 NOT STATED	2286/ 2157643 1333/ 1054886 3400/ 3110331 2607/ 2345892 1285/ 1598738 13/ 13834 58/ 77895
66	Q40	1	0109	HOW OFTEN IS YOUR MICROWAVE USED FOR COOKING?  NOT APPLICABLE 1 EVERYDAY 2 A FEW TIMES A WEEK 3 ONCE A WEEK OR LESS 4 NEVER 5 DON'T KNOW 9 NOT STATED	2286/ 2157643 1231/ 1288220 1638/ 1683444 2102/ 1868782 3586/ 3194838 18/ 14232 121/ 152058
67	Q41	1	0110	DO YOU USE A DISHWASHER?  1 YES 2 NO	4105/ 4571760 6877/ 5787457
68	Q42FLG	1	0111	DISHWASHER: MAKE & MODEL FLAG  NOT APPLICABLE 0 INVALID DATA 1 POTENTIALLY VALID DATA 9 NOT STATED	6870/ 5782676 72/ 79644 3989/ 4447792 51/ 49105
69	Q43	2	0112-0113	HOW OLD IS YOUR DISHWASHER?  NOT APPLICABLE 01 1 YEAR OR LESS 02 2 YEARS 03 3 YEARS 04 4 YEARS 05 5 YEARS 06 6-7 YEARS 07 8-10 YEARS 08 11-15 YEARS 09 16-20 YEARS 10 21 YEARS OR MORE 11 DON'T KNOW 99 NOT STATED	6877/ 5787457 357/ 421179 295/ 359740 283/ 340129 264/ 268539 396/ 521565 481/ 469802 763/ 874484 728/ 756719 239/ 237641 63/ 86441 205/ 211015 31/ 24505

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
70	Q44	1	0114	IS IT BUILT-IN?	
				NOT APPLICABLE	6877/ 5787457
				1 YES	3057/ 3576693
				2 NO	1022/ 963732
				3 DON'T KNOW	4/ 944
				9 NOT STATED	22/ 30391
71	Q45	1	0115	IS IT A COMPACT OR STANDARD SIZE DISHWASHER?	
				NOT APPLICABLE	6877/ 5787457
				1 COMPACT	122/ 111459
				2 STANDARD	3957/ 4442419
				3 DON'T KNOW	0/ 0
				9 NOT STATED	26/ 17882
72	Q46	1	0116	DOES YOUR DISHWASHER HAVE THE AIR DRY OPTION?	
				NOT APPLICABLE	6877/ 5787457
				1 YES	3212/ 3562111
				2 NO	821/ 908336
				3 DON'T KNOW	54/ 74794
				9 NOT STATED	18/ 26518
				NOTE: 2,9 - CONTINUE 1,3 - GO TO Q47	
73	Q46A	1	0117	IS IT HEAT DRY ONLY?	
				NOT APPLICABLE	10143/ 9424363
				1 YES	454/ 461431
				2 NO	39/ 49515
				3 DON'T KNOW	43/ 59373
				9 NOT STATED	303/ 36453
74	Q47	1	0118	DO YOU USUALLY DRY THE DISHES WITH ...	
				NOT APPLICABLE	6877/ 5787457
				1 HEAT ON? (HOT AIR)	1669/ 1954918
				2 HEAT OFF? (AIR-DRY, DOOR CLOSED)	1547/ 1651348
				3 OPEN DOOR?	803/ 827035
				4 DON'T KNOW	58/ 94210
				9 NOT STATED	28/ 44249
75	Q48	2	0119-0120	HOW MANY LOADS OF DISHES DO YOU DO IN AN AVERAGE WEEK?	
				NOT APPLICABLE	6877/ 5787457
				01 LESS THAN 1	421/ 516742
				02 1	297/ 381676
				03 2	459/ 611644
				04 3	663/ 777168
				05 4	519/ 619946
				06 5	373/ 369066
				07 6	182/ 164746
				08 7	820/ 822981
				09 8-13	274/ 234696
				10 14 OR MORE	58/ 26868
				11 DON'T KNOW	12/ 21814
				99 NOT STATED	27/ 24413
76	Q49	1	0121	HOW MANY FREEZERS DO YOU USE?	
				1 ONE	6707/ 5693922
				2 TWO	920/ 508668
				3 MORE THAN TWO	43/ 20092
				4 NONE	3312/ 4136535

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
77	Q50AFLG	1	0122	MAIN FREEZER: MAKE & MODEL FLAG	
				NOT APPLICABLE	3312/ 4136535
				0 INVALID DATA	759/ 574675
				1 POTENTIALLY VALID DATA	6818/ 5542394
				9 NOT STATED	93/ 105613
78	Q50BFLG	1	0123	SECOND FREEZER: MAKE & MODEL FLAG	
				NOT APPLICABLE	10019/ 9830457
				0 INVALID DATA	131/ 67863
				1 POTENTIALLY VALID DATA	796/ 433422
				9 NOT STATED	36/ 27474
79	Q51A	2	0124-0125	AGE MAIN FREEZER?	
				NOT APPLICABLE	3312/ 4136535
				01 1 YEAR OR LESS	327/ 284652
				02 2 YEARS	261/ 217935
				03 3 YEARS	267/ 204150
				04 4 YEARS	254/ 231793
				05 5 YEARS	358/ 314603
				06 6-7 YEARS	505/ 410444
				07 8-10 YEARS	1166/ 982277
				08 11-15 YEARS	1518/ 1320562
				09 16-20 YEARS	1255/ 973006
				10 21-25 YEARS	641/ 467072
				11 26 YEARS OR MORE	689/ 470821
				12 DON'T KNOW	268/ 190481
				99 NOT STATED	161/ 154886
80	Q51B	2	0126-0127	AGE SECOND FREEZER?	
				NOT APPLICABLE	10019/ 9830457
				01 1 YEAR OR LESS	18/ 10443
				02 2 YEARS	23/ 20432
				03 3 YEARS	22/ 29629
				04 4 YEARS	24/ 8969
				05 5 YEARS	26/ 11911
				06 6-7 YEARS	49/ 24271
				07 8-10 YEARS	141/ 88445
				08 11-15 YEARS	173/ 76445
				09 16-20 YEARS	152/ 69691
				10 21-25 YEARS	85/ 59393
				11 26 YEARS OR MORE	160/ 63228
				12 DON'T KNOW	36/ 16357
				99 NOT STATED	54/ 49544
81	Q52A	1	0128	IS YOUR MAIN FREEZER A CHEST OR UPRIGHT?	
				NOT APPLICABLE	3312/ 4136535
				1 CHEST	6946/ 5308506
				2 UPRIGHT MANUAL DEFROST	522/ 621223
				3 UPRIGHT FROST-FREE	113/ 197903
				4 UPRIGHT, DON'T KNOW IF FROST-FREE	8/ 6823
				5 DON'T KNOW IF CHEST OR UPRIGHT	8/ 14465
				9 NOT STATED	73/ 73762
82	Q52B	1	0129	IS YOUR SECOND FREEZER A CHEST OR UPRIGHT?	
				NOT APPLICABLE	10019/ 9830457
				1 CHEST	823/ 394046
				2 UPRIGHT MANUAL DEFROST	60/ 56530
				3 UPRIGHT FROST-FREE	9/ 5633
				4 UPRIGHT, DON'T KNOW IF FROST-FREE	3/ 9086
				5 DON'T KNOW IF CHEST OR UPRIGHT	0/ 0
				9 NOT STATED	68/ 63464

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
83	Q53A	1	0130	WHAT IS THE SIZE OF YOUR MAIN FREEZER?	
				NOT APPLICABLE	3312/ 4136535
				1 VERY SMALL, LESS THAN 7.0 CU.FT.	419/ 441068
				2 SMALL, 7.0-13.9 CU.FT	2215/ 1952129
				3 MEDIUM, 14.0-17.9 CU.FT	3009/ 2325698
				4 LARGE, 18.0-22.9 CU.FT	1543/ 1121698
				5 VERY LARGE, 23 CU.FT. OR MORE	382/ 311373
				6 DON'T KNOW	43/ 19149
				9 NOT STATED	59/ 51566
84	Q53B	1	0131	WHAT IS THE SIZE OF YOUR SECOND FREEZER?	
				NOT APPLICABLE	10019/ 9830457
				1 VERY SMALL, LESS THAN 7.0 CU.FT.	61/ 54375
				2 SMALL, 7.0-13.9 CU.FT	298/ 168551
				3 MEDIUM, 14.0-17.9 CU.FT	316/ 129510
				4 LARGE, 18.0-22.9 CU.FT	206/ 117105
				5 VERY LARGE, 23 CU.FT. OR MORE	30/ 13641
				6 DON'T KNOW	9/ 3889
				9 NOT STATED	43/ 41688
85	Q54	1	0132	DO YOU USE A WASHING MACHINE?	
				1 YES	9146/ 8180711
				2 NO	1836/ 2178506
86	Q55	1	0133	IS YOUR WASHING MACHINE...	
				NOT APPLICABLE	1836/ 2178506
				1 AN AUTOMATIC WASHER	8554/ 7898971
				2 A WASHER/DRYER COMBINATION	122/ 115001
				3 A WRINGER WASHER	173/ 100153
				4 OTHER	296/ 6636
				9 NOT STATED	1/ 220
				NOTE: 2 - GO TO Q59	
				3,4 - GO TO Q64	
87	Q56FLG	1	0134	WASHING MACHINE: MAKE & MODEL FLAG	
				NOT APPLICABLE	2427/ 2460020
				0 INVALID DATA	304/ 286752
				1 POTENTIALLY VALID DATA	8250/ 7612219
				9 NOT STATED	1/ 226
88	Q57	2	0135-0136	HOW OLD IS YOUR WASHING MACHINE?	
				NOT APPLICABLE	2427/ 2460020
				01 1-YEAR OR LESS	670/ 628810
				02 2 YEARS	574/ 620613
				03 3 YEARS	568/ 512901
				04 4 YEARS	532/ 425534
				05 5 YEARS	708/ 660615
				06 6-7 YEARS	915/ 738024
				07 8-10 YEARS	1575/ 1518628
				08 11-15 YEARS	1515/ 1376366
				09 16-20 YEARS	766/ 699749
				10 21 YEARS OR MORE	350/ 431573
				11 DON'T KNOW	319/ 245659
				99 NOT STATED	63/ 40724
89	Q58	1	0137	WHAT SIZE (TUB CAPACITY) IS THE WASHING MACHINE?	
				NOT APPLICABLE	2427/ 2460020
				1 MINI (COMPACT)	408/ 361055
				2 STANDARD (FULL SIZE)	6993/ 6468816
				3 LARGE (EXTRA CAPACITY)	1110/ 102108
				4 DON'T KNOW	5/ 682
				9 NOT STATED	39/ 41419



FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
90	Q59A	1	0138	DO YOU HAVE HOT WATER TEMP. OPTION FOR WASHING?	
				NOT APPLICABLE	2305/ 2345019
				1 YES	8292/ 7678657
				2 NO	235/ 142331
				3 DON'T KNOW	11/ 9942
				9 NOT STATED	139/ 183268
91	Q59B	1	0139	DO YOU HAVE WARM WATER TEMP. OPTION FOR WASHING?	
				NOT APPLICABLE	2305/ 2345019
				1 YES	8385/ 7782823
				2 NO	207/ 125849
				3 DON'T KNOW	11/ 9852
				9 NOT STATED	74/ 95675
92	Q59C	1	0140	DO YOU HAVE COLD WATER TEMP. OPTION FOR WASHING?	
				NOT APPLICABLE	2305/ 2345019
				1 YES	8339/ 7785657
				2 NO	218/ 119610
				3 DON'T KNOW	10/ 9588
				9 NOT STATED	110/ 99343
93	Q60A	1	0141	DO YOU HAVE HOT WATER TEMP. OPTION FOR RINSING?	
				NOT APPLICABLE	2305/ 2345019
				1 YES	6278/ 6003987
				2 NO	1354/ 1087420
				3 DON'T KNOW	51/ 41371
				9 NOT STATED	994/ 881420
94	Q60B	1	0142	DO YOU HAVE WARM WATER TEMP. OPTION FOR RINSING?	
				NOT APPLICABLE	2305/ 2345019
				1 YES	7529/ 7013992
				2 NO	560/ 428548
				3 DON'T KNOW	32/ 27860
				9 NOT STATED	556/ 543799
95	Q60C	1	0143	DO YOU HAVE COLD WATER TEMP. OPTION FOR RINSING?	
				NOT APPLICABLE	2305/ 2345019
				1 YES	8321/ 7716771
				2 NO	189/ 114512
				3 DON'T KNOW	27/ 21251
				9 NOT STATED	140/ 161664
96	Q61	1	0144	WHAT WATER TEMPERATURE DO YOU USE FOR MOST OF YOUR WASHING?	
				NOT APPLICABLE	2305/ 2345019
				1 HOT	573/ 504770
				2 WARM	5422/ 4699800
				3 COLD	2303/ 2532824
				4 DON'T KNOW	53/ 59422
				9 NOT STATED	326/ 217383
97	Q62	1	0145	AND FOR RINSING?	
				NOT APPLICABLE	2305/ 2345019
				1 HOT	64/ 81911
				2 WARM	1776/ 1599161
				3 COLD	6419/ 5957126
				4 DON'T KNOW	57/ 79312
				9 NOT STATED	361/ 296688

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
98	Q63	1	0146	CAN YOU CHOOSE THE WATER LEVEL IN YOUR WASHING MACHINE DEPENDING ON YOUR NEEDS?	
			NOT APPLICABLE		2305/ 2345019
			1 YES		8039/ 7416630
			2 NO		485/ 433776
			3 DON'T KNOW		38/ 44281
			9 NOT STATED		115/ 119511
99	Q63A	1	0147	DO YOU USE THIS FEATURE?	
			NOT APPLICABLE		2828/ 2823076
			1 YES		7036/ 6315757
			2 NO		357/ 320163
			3 DON'T KNOW		19/ 20815
			9 NOT STATED		742/ 879406
100	Q64	2	0148-0149	ON AN AVERAGE WEEK IN WINTER, HOW MANY LOADS OF LAUNDRY DO YOU WASH?	
			NOT APPLICABLE		1836/ 2178506
			01 LESS THAN 1		196/ 175008
			02 1		618/ 642813
			03 2		1076/ 1106625
			04 3		1179/ 1240164
			05 4		1054/ 985392
			06 5		851/ 769135
			07 6		844/ 682645
			08 7		765/ 689586
			09 8-13		1682/ 1318294
			10 14 OR MORE		741/ 458957
			11 DON'T KNOW		30/ 21070
			99 NOT STATED		110/ 9102
101	Q65	2	0150-0151	AND IN SUMMER?	
			NOT APPLICABLE		1836/ 2178506
			01 LESS THAN 1		196/ 206962
			02 1		473/ 459700
			03 2		967/ 1000983
			04 3		1086/ 1241982
			05 4		1054/ 1008631
			06 5		906/ 840954
			07 6		832/ 745728
			08 7		772/ 693011
			09 8-13		1801/ 1301417
			10 14 OR MORE		799/ 469641
			11 DON'T KNOW		56/ 58407
			99 NOT STATED		204/ 153296
102	Q66	1	0152	WASHER/DRYER COMBINATION?	
			NOT APPLICABLE		1836/ 2178506
			1 IF "WASHER/DRYER COMBINATION" IN 55, GO TO 68		122/ 115001
			2 OTHERWISE CONTINUE		9024/ 8065710
			NOTE: DERIVED FROM Q55		
103	Q67	1	0153	DO YOU USE A CLOTHES DRYER IN YOUR HOUSE OR APARTMENT?	
			NOT APPLICABLE		122/ 115001
			1 YES		8336/ 7533904
			2 NO		2524/ 2710312
			NOTE: NOT APPLICABLE IS "WASHER/DRYER" COMBINATION FROM Q55		

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
104	Q68FLG	1	0154	CLOTHES DRYER: MAKE & MODEL FLAG	
				NOT APPLICABLE	2524/ 2710312
				0 INVALID DATA	310/ 241525
				1 POTENTIALLY VALID DATA	7800/ 7073342
				9 NOT STATED	348/ 334038
105	Q69	1	0155	WHAT SIZE (DRUM SIZE) IS YOUR CLOTHES DRYER?	
				NOT APPLICABLE	2524/ 2710312
				1 MINI (COMPACT)	373/ 379500
				2 STANDARD (FULL SIZE)	7257/ 6517265
				3 LARGE (EXTRA CAPACITY)	736/ 676242
				4 DON'T KNOW	5/ 2915
				9 NOT STATED	87/ 72982
106	Q70	2	0156-0157	HOW OLD IS YOUR CLOTHES DRYER?	
				NOT APPLICABLE	2524/ 2710312
				01 1 YEAR OR LESS	584/ 561124
				02 2 YEARS	455/ 494568
				03 3 YEARS	464/ 436449
				04 4 YEARS	446/ 360840
				05 5 YEARS	573/ 609670
				06 6-7 YEARS	757/ 644586
				07 8-10 YEARS	1517/ 1404943
				08 11-15 YEARS	1558/ 1440229
				09 16-20 YEARS	987/ 707020
				10 21 YEARS OR MORE	637/ 591576
				11 DON'T KNOW	361/ 271881
				99 NOT STATED	119/ 126018
107	Q71	1	0158	DOES YOUR CLOTHES DRYER USE...	
				NOT APPLICABLE	2524/ 2710312
				1 ELECTRICITY	8061/ 7171893
				2 NATURAL GAS	162/ 245842
				3 OTHER FUEL	42/ 20181
				4 DON'T KNOW	4/ 4316
				9 NOT STATED	189/ 206672
108	Q72A	1	0159	DOES YOUR CLOTHES DRYER HAVE A MANUAL TIMER? (SHUTS OFF DRYER AFTER PRE-SELECTED TIME)	
				NOT APPLICABLE	2524/ 2710312
				1 YES	7986/ 7170385
				2 NO	239/ 246344
				3 DON'T KNOW	27/ 19140
				9 NOT STATED	206/ 213036
109	Q72B	1	0160	DOES YOUR CLOTHES DRYER HAVE AN AUTOMATIC SHUT OFF WHEN THE CLOTHES ARE DRY (AUTO-DRY)	
				NOT APPLICABLE	2524/ 2710312
				1 YES	4914/ 4498477
				2 NO	3027/ 2743760
				3 DON'T KNOW	63/ 77946
				9 NOT STATED	454/ 328722
110	Q72C	1	0161	DOES YOUR CLOTHES DRYER HAVE COOL-DOWN OR PERMAPRESS SETTING?	
				NOT APPLICABLE	2524/ 2710312
				1 YES	6706/ 6054610
				2 NO	1164/ 1047428
				3 DON'T KNOW	116/ 95542
				9 NOT STATED	472/ 451324

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
111	Q73A	1	0162	DO YOU REGULARLY USE THE MANUAL TIMER?	
				NOT APPLICABLE	2790/ 2975796
				1 YES	5601/ 4991539
				2 NO	2345/ 2139119
				3 DON'T KNOW	40/ 39727
				9 NOT STATED	206/ 213036
112	Q73B	1	0163	DO YOU REGULARLY USE THE AUTOMATIC SHUT OFF?	
				NOT APPLICABLE	5614/ 5532018
				1 YES	2648/ 2431595
				2 NO	2233/ 2029246
				3 DON'T KNOW	33/ 37636
				9 NOT STATED	454/ 328722
113	Q73C	1	0164	DO YOU REGULARLY USE THE COOL-DOWN OR PERMAPRESS SETTING?	
				NOT APPLICABLE	3804/ 3853283
				1 YES	1974/ 1724610
				2 NO	4688/ 4284987
				3 DON'T KNOW	44/ 45013
				9 NOT STATED	472/ 451324
114	Q74	2	0165-0166	ON AN AVERAGE WEEK IN WINTER, HOW MANY LOADS OF LAUNDRY DO YOU DRY IN THE CLOTHES DRYER? (DO NOT COUNT LOADS IF HEAT WAS NOT USED)	
				NOT APPLICABLE	2524/ 2710312
				01 LESS THAN 1	321/ 348285
				02 1	579/ 661124
				03 2	1038/ 1038617
				04 3	1100/ 109656
				05 4	994/ 90484
				06 5	806/ 750000
				07 6	718/ 584381
				08 7	700/ 644900
				09 8-13	1475/ 1120446
				10 14 OR MORE	616/ 399590
				11 DON'T KNOW	26/ 17099
				99 NOT STATED	85/ 83050
115	Q75	2	0167-0168	ON AN AVERAGE WEEK IN SUMMER, HOW MANY LOADS OF LAUNDRY DO YOU DRY IN THE CLOTHES DRYER? (DO NOT COUNT LOADS IF HEAT WAS NOT USED)	
				NOT APPLICABLE	2524/ 2710312
				01 LESS THAN 1	2223/ 1833902
				02 1	949/ 880650
				03 2	1105/ 990694
				04 3	908/ 929781
				05 4	695/ 681803
				06 5	569/ 602971
				07 6	453/ 401928
				08 7	385/ 342515
				09 8-13	742/ 617275
				10 14 OR MORE	273/ 195331
				11 DON'T KNOW	61/ 68990
				99 NOT STATED	95/ 103065
116	Q76A	1	0169	HOW MANY COLOUR TV SETS?	
				0:9	10982/10359217
117	Q76B	1	0170	HOW MANY BLACK & WHITE TV SETS?	
				0:9	10982/1035921



FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
118	Q76C	1	0171	HOW MANY VCRS (VIDEO CASSETTE RECORDER)? 0:9	10982/10359217
119	Q76D	1	0172	HOW MANY CD PLAYERS (COMPACT DISK)? 0:9	10982/10359217
120	Q76E	1	0173	HOW MANY OTHER SEPARATE STEREO SYSTEMS (EXCLUDE PORTABLE STEREOS, "WALKMANS", ETC.)? 0:9	10982/10359217
121	Q76F	1	0174	HOW MANY COMPUTERS? 0:9	10982/10359217
122	Q76G	1	0175	HOW MANY ELECTRIC BLANKETS? 0:9	10982/10359217
123	Q76H	1	0176	HOW MANY WATERBED HEATERS? 0:9	10982/10359217
124	Q76I	1	0177	HOW MANY PORTABLE HUMIDIFIERS? 0:9	10982/10359217
125	Q76J	1	0178	HOW MANY PORTABLE DEHUMIDIFIERS? 0:9	10982/10359217
126	Q76K	1	0179	HOW MANY CAR BLOCK HEATERS? 0:9	10982/10359217
127	Q76L	1	0180	HOW MANY INTERIOR CAR WARMERS? 0:9	10982/10359217
128	Q76M	1	0181	HOW MANY WATER COOLERS? 0:9	10982/10359217
129	Q76N	1	0182	HOW MANY FISH TANKS WITH PUMP, HEATER, AND LIGHT? 0:9	10982/10359217
130	Q76O	1	0183	HOW MANY BATHROOM EXHAUST FANS? 0:9	10982/10359217
131	Q77	1	0184	APARTMENT OR HOUSE SECTION 1 APARTMENT - GO TO Q143 2 HOUSE - CONTINUE	1975/ 3224052 9007/ 7135165

NOTE: DERIVED VALUE FROM LFS TYPE OF DWELLING AND TENURE  
APT.= DWELLING = 5,6  
OR 4(DUPLEX, IF TENURE = 2, RENTED)  
HOUSE= DWELLING = 1,2,3,9  
OR 4(DUPLEX, IF TENURE=1, OWNED)

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H O U S E S E C T I O N Q78 - Q142

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FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
132	Q78	1	0185	DO YOU HAVE A HEAT PUMP?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	155/ 291393
				2 NO	8598/ 6655128
				3 DON'T KNOW	69/ 80206
				9 NOT STATED	185/ 108438
				NOTE: 1,9 - CONTINUE	
				2,3 - GO TO Q84	
133	Q79	1	0186	IS YOUR HEAT PUMP AIR SOURCE OR GROUND SOURCE?	
				NOT APPLICABLE	10642/ 9959386
				1 AIR SOURCE	82/ 205891
				2 GROUND SOURCE (EARTH ENERGY SYSTEM)	16/ 29169
				3 DON'T KNOW	13/ 30550
				9 NOT STATED	229/ 134220
134	Q80	2	0187-0188	HOW OLD IS IT?	
				NOT APPLICABLE	10642/ 9959386
				01 1 YEAR OR LESS	12/ 25382
				02 2 YEARS	14/ 65248
				03 3 YEARS	13/ 33127
				04 4 YEARS	3/ 3265
				05 5 YEARS	14/ 17382
				06 6-7 YEARS	13/ 18716
				07 8-10 YEARS	20/ 57609
				08 11-15 YEARS	11/ 30116
				09 16-20 YEARS	1/ 4523
				10 21 YEARS OR MORE	0/ 0
				11 DON'T KNOW	6/ 8320
				99 NOT STATED	233/ 13614
135	Q81	5	0189-0193	HOW MUCH POWER DOES YOUR HEAT PUMP HAVE(BTU)?	
				NOT APPLICABLE	10642/ 9959386
				05000:60000 BTU	27/ 59985
				99998 DON'T KNOW	61/ 129144
				99999 NOT STATED	252/ 210702
				NOTE: ALL RESPONSES HAVE BEEN CONVERTED TO BTU	
136	Q82	1	0194	DO YOU USE A BACK-UP FURNACE WITH YOUR HEAT PUMP?	
				NOT APPLICABLE	10642/ 9959386
				1 YES	76/ 219702
				2 NO	33/ 42928
				3 DON'T KNOW	1/ 1765
				9 NOT STATED	230/ 135436
137	Q83	1	0195	WHAT FUEL DOES THIS FURNACE USE?	
				NOT APPLICABLE	10676/10004079
				1 NATURAL GAS	16/ 59529
				2 OIL	16/ 37196
				3 ELECTRICITY	39/ 114848
				4 PROPANE	1/ 2965
				5 WOOD	3/ 3286
				6 COAL	0/ 0
				7 OTHER	0/ 0
				8 DON'T KNOW	0/ 0
				9 NOT STATED	231/ 137313
				NOTE: NOTE: HEAT PUMP USERS GO TO Q89	

FIELD	ACRNYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
138	Q84	1	0196	WHAT IS THE HEATING EQUIPMENT THAT HEATS MOST OF THE HOUSE?	
				NOT APPLICABLE	2130/ 3515445
				1 FURNACE WITH HOT AIR VENTS	5013/ 4049252
				2 BOILER (FURNACE) WITH HOT WATER RADIATORS	722/ 369114
				3 WOOD STOVE	971/ 740002
				4 ELECTRIC BASEBOARDS	1598/ 1266792
				5 ELECTRIC RADIANT HEATING	64/ 74009
				6 OTHER	160/ 111110
				7 DON'T KNOW	9/ 6541
				8 (1,2,3 OR 6) - SEE NOTE	268/ 174097
				9 NOT STATED	47/ 52855
				NOTE: CODE 8 IMPUTED - HEATING EQUIPMENT INDICATED BUT TYPE NOT SPECIFIED	
139	Q84A	1	0197	HOW MANY FURNACES, BOILERS OR WOODSTOVES?	
				NOT APPLICABLE	4011/ 4979539
				1	6321/ 4775622
				2	111/ 78986
				3	1/ 270
				9 NOT STATED	538/ 524799
140	Q85ADV	1	0198	FUEL USED FOR PRIMARY HEATING?	
				NOT APPLICABLE	1984/ 3230593
				1 NATURAL GAS	3048/ 3338208
				2 OIL	2241/ 1043994
				3 ELECTRICITY	2364/ 2002491
				4 WOOD	1027/ 491302
				5 PROPANE	114/ 85164
				6 COAL	13/ 3836
				7 OTHER	9/ 3142
				8 DON'T KNOW	8/ 11705
				9 NOT STATED	174/ 148780
				NOTE: DERIVED FROM Q78(HEAT PUMPS), Q84A(BASEBOARDS AND RADIANT HEATERS) AND Q85A. IF TWO FUELS ARE USED, THE SECOND IS INDICATED IN Q85B.	
141	Q85B	1	0199	SECOND FUEL USED BY THE PRIMARY HEATING SYSTEM.	
				NOT APPLICABLE	10429/10018025
				2 OIL	3/ 2924
				3 ELECTRICITY	18/ 51998
				4 WOOD	337/ 124324
				5 PROPANE	5/ 644
				6 COAL	9/ 7296
				7 OTHER	5/ 4802
				9 NOT STATED	176/ 149204
142	Q86	1	0200	WHAT IS THE EFFICIENCY RATING OF THE HEATING EQUIPMENT? (GAS OR OIL ONLY)	
				NOT APPLICABLE	5444/ 5783038
				1 STANDARD (50-65%)	1669/ 1364234
				2 MEDIUM (75-80%)	1063/ 950024
				3 HIGH (90% OR HIGHER)	527/ 532483
				4 DON'T KNOW	1640/ 1293133
				9 NOT STATED	639/ 436305
143	Q87FLG	1	0201	FURNACE(OVEN): MAKE & MODEL FLAG	
				NOT APPLICABLE	3737/ 4822203
				0 INVALID DATA	1638/ 1322293
				1 POTENTIALLY VALID DATA	5203/ 3863740
				9 NOT STATED	404/ 350982

FIELD ACRONYM LEN POSITION QUESTION AND VARIABLE DESCRIPTIONS

UNWTD/WEIGHTED

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
144	Q88	2	0202-0203	HOW OLD IS THE HEATING EQUIPMENT?	
				NOT APPLICABLE	2139/ 3521986
				01 1 YEAR OR LESS	431/ 389154
				02 2 YEARS	386/ 282618
				03 3 YEARS	388/ 230675
				04 4 YEARS	325/ 217852
				05 5 YEARS	457/ 428658
				06 6-7 YEARS	590/ 445928
				07 8-10 YEARS	1117/ 937144
				08 11-15 YEARS	1476/ 1213656
				09 16-20 YEARS	1171/ 821538
				10 21 YEARS OR MORE	1350/ 1092973
				11 DON'T KNOW	711/ 460770
				99 NOT STATED	441/ 316264
145	Q89A	1	0204	DO YOU USE A CENTRAL ELECTRONIC AIR FILTER?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	590/ 874891
				2 NO	7751/ 5723634
				3 DON'T KNOW	286/ 245025
				9 NOT STATED	380/ 291615
146	Q89B	1	0205	DO YOU USE A CENTRAL ELECTRONIC HUMIDIFIER?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	1219/ 1599783
				2 NO	7247/ 5081636
				3 DON'T KNOW	180/ 181248
				9 NOT STATED	361/ 272497
147	Q89C	1	0206	DO YOU USE A CENTRAL ELECTRONIC DEHUMIDIFIER?	
				NOT APPLICABLE	1975/ 322405
				1 YES	165/ 222877
				2 NO	8272/ 6460877
				3 DON'T KNOW	184/ 181603
				9 NOT STATED	386/ 269807
148	Q90	1	0207	DO YOU USE A PROGRAMMABLE THERMOSTAT WITH A TIMER?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	1174/ 1255341
				2 NO	7397/ 5573477
				3 DON'T KNOW	35/ 22994
				9 NOT STATED	401/ 283353
149	Q91	1	0208	DO YOU HAVE A WOOD BURNING FIREPLACE IN YOUR HOME?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	1765/ 2224662
				2 NO	7242/ 4910502
150	Q91A	1	0209	HOW MANY WOOD BURNING FIREPLACES?	
				NOT APPLICABLE	9217/ 8134555
				1	1510/ 1848760
				2	166/ 254421
				3	12/ 22687
				4	1/ 1322
				7	1/ 1560
				9 NOT STATED	75/ 95913



FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
151	Q92	1	0210	DOES IT HAVE GLASS DOORS?	
				NOT APPLICABLE	9217/ 8134555
				1 YES	911/ 1167858
				2 NO	811/ 1029809
				3 DON'T KNOW	4/ 2767
				9 NOT STATED	39/ 24228
				NOTE: IF MORE THAN ONE; Q92-Q95 REFER TO THE ONE USED MOST OFTEN.	
152	Q93	1	0211	DOES IT HAVE A FIREPLACE INSERT?	
				NOT APPLICABLE	9217/ 8134555
				1 YES	463/ 531779
				2 NO	1181/ 1571757
				3 DON'T KNOW	74/ 89800
				9 NOT STATED	47/ 31328
153	Q94	1	0212	HOW OLD IS IT?	
				NOT APPLICABLE	9217/ 8134555
				1 0-5 YEARS	207/ 326397
				2 6-10 YEARS	315/ 446266
				3 11 YEARS OR MORE	1078/ 1241066
				4 DON'T KNOW	102/ 115893
				9 NOT STATED	63/ 95041
154	Q95	1	0213	ABOUT HOW OFTEN DO YOU USE THE FIREPLACE DURING THE HEATING SEASON?	
				NOT APPLICABLE	9217/ 8134555
				1 NEVER	444/ 551804
				2 NOT EVERY WEEK	734/ 774761
				3 1-3 TIMES PER WEEK	317/ 539867
				4 MORE THAN 3 TIMES PER WEEK	206/ 289219
				5 DON'T KNOW	11/ 14432
				9 NOT STATED	53/ 54579
155	Q96	1	0214	DO YOU HAVE A GAS BURNING FIREPLACE IN YOUR HOME?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	230/ 360415
				2 NO	8774/ 6771432
				9 NOT STATED	3/ 3318
156	Q96A	1	0215	HOW MANY GAS BURNING FIREPLACES?	
				NOT APPLICABLE	10749/ 9995484
				1	195/ 295268
				2	20/ 42178
				3	1/ 4809
				9 NOT STATED	17/ 21478
157	Q97A	1	0216	SUPPLEMENTARY HEATING EQUIPMENT - WOOD STOVE?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	1391/ 938668
				2 NO	7454/ 6026870
				3 DON'T KNOW	12/ 7812
				9 NOT STATED	150/ 161815
158	Q97A1	1	0217	HOW OLD IS IT? (SUPP. WOOD STOVE)	
				NOT APPLICABLE	9447/ 9260334
				1 0-5 YEARS	301/ 200949
				2 6-10 YEARS	414/ 282323
				3 11 YEARS OR MORE	423/ 312129
				4 DON'T KNOW	61/ 40688
				9 NOT STATED	336/ 262794

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
159	Q97A2	1	0218	WHAT AREA IS IT HEATING? (SUPP. WOOD STOVE)	
				NOT APPLICABLE	9442/ 9259097
			1	WHOLE HOUSE	655/ 387017
			2	BASEMENT	352/ 315642
			3	GARAGE	8/ 3223
			4	ATTIC	0/ 0
			5	SOLARIUM/SUNROOM	7/ 6631
			6	OTHER	266/ 155048
			9	NOT STATED	252/ 232559
160	Q97A3	1	0219	ON AVERAGE, HOW OFTEN DO YOU USE IT DURING THE HEATING SEASON? (SUPP. WOOD STOVE)	
				NOT APPLICABLE	9465/ 9279210
			1	MORE THAN 4 HOURS PER DAY	796/ 501697
			2	BETWEEN 1 AND 4 HOURS PER DAY	167/ 126804
			3	LESS THAN 1 HR/DAY, MORE THAN 1 HR/WEEK	113/ 80482
			4	LESS THAN 1 HOUR PER WEEK	169/ 128854
			9	NOT STATED	272/ 242170
161	Q97B	1	0220	SUPPLEMENTARY HEATING EQUIPMENT - ELECTRIC BASEBOARDS?	
				NOT APPLICABLE	1975/ 3224052
			1	YES	1342/ 1177577
			2	NO	7468/ 5777893
			3	DON'T KNOW	9/ 5075
			9	NOT STATED	188/ 174619
162	Q97B1A	1	0221	FIRST AREA FOR SUPPLEMENTARY BASEBOARDS.	
				NOT APPLICABLE	9451/ 9006486
			1	WHOLE HOUSE	445/ 37759
			2	BASEMENT	253/ 31836
			3	GARAGE	8/ 6293
			4	ATTIC	6/ 5365
			5	SOLARIUM/SUNROOM	28/ 29601
			6	OTHER	456/ 323556
			9	NOT STATED	335/ 291962
163	Q97B1B	1	0222	SECOND AREA FOR SUPPLEMENTARY BASEBOARDS.	
				NOT APPLICABLE	10723/10060256
			2	BASEMENT	20/ 40226
			3	GARAGE	3/ 1859
			4	ATTIC	0/ 0
			5	SOLARIUM/SUNROOM	5/ 13710
			6	OTHER	34/ 62089
			9	NOT STATED	197/ 181077
164	Q97B1C	1	0223	THIRD AREA FOR SUPPLEMENTARY BASEBOARDS.	
				NOT APPLICABLE	10778/10162406
			3	GARAGE	1/ 1807
			4	ATTIC	0/ 0
			5	SOLARIUM/SUNROOM	1/ 209
			6	OTHER	5/ 13718
			9	NOT STATED	197/ 181077
165	Q97C	1	0224	SUPPLEMENTARY HEATING EQUIPMENT - PORTABLE HEATER?	
				NOT APPLICABLE	1975/ 3224052
			1	YES	1119/ 990842
			2	NO	7734/ 5997850
			3	DON'T KNOW	10/ 7923
			9	NOT STATED	144/ 138540

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED	
166	Q97C1A	1	0225	WHERE WAS THE SUPPLEMENTARY PORTABLE HEATER USED?		
				NOT APPLICABLE	9719/	9229825
				1 WHOLE HOUSE	100/	73701
				2 BASEMENT	264/	274749
				3 GARAGE	49/	81870
				4 ATTIC	4/	545
				5 SOLARIUM/SUNROOM	16/	17316
				6 OTHER	629/	481126
				9 NOT STATED	201/	200084
				NOTE: THERE WERE NO OCCURANCES OF MORE THAN ONE ANSWER.		
167	Q97C2	1	0226	FUEL FOR SUPPLEMENTARY PORTABLE HEATER?		
				NOT APPLICABLE	9719/	9229825
				1 ELECTRICITY	938/	883245
				2 NATURAL GAS	3/	1523
				3 OIL	41/	13311
				4 OTHER	87/	32520
				9 NOT STATED	194/	198794
168	Q97D	1	0227	ANY OTHER SUPPLEMENTARY HEATING?		
				NOT APPLICABLE	1975/	3224052
				1 YES	450/	251430
				2 NO	8232/	6562470
				3 DON'T KNOW	5/	2245
				9 NOT STATED	320/	319019
169	Q97D1A	1	0228	FIRST AREA FOR OTHER SUPPLEMENTARY HEATING.		
				NOT APPLICABLE	10212/	9788768
				1 WHOLE HOUSE	255/	110864
				2 BASEMENT	49/	43300
				3 GARAGE	17/	14456
				4 ATTIC	1/	215
				5 SOLARIUM/SUNROOM	2/	346
				6 OTHER	95/	69197
				9 NOT STATED	351/	332072
170	Q97D1B	1	0229	SECOND AREA FOR OTHER SUPPLEMENTARY HEATING.		
				NOT APPLICABLE	10644/	10025600
				2 BASEMENT	2/	833
				3 GARAGE	4/	6090
				4 ATTIC	0/	0
				5 SOLARIUM/SUNROOM	0/	0
				6 OTHER	7/	5472
				9 NOT STATED	325/	321221
171	Q97D1C	1	0230	THIRD AREA FOR OTHER SUPPLEMENTARY HEATING.		
				NOT APPLICABLE	10654/	10036698
				3 GARAGE	1/	625
				4 ATTIC	0/	0
				5 SOLARIUM/SUNROOM	0/	0
				6 OTHER	2/	673
				9 NOT STATED	325/	321221
172	Q97D2	1	0231	FUEL FOR OTHER SUPPLEMENTARY HEATING?		
				NOT APPLICABLE	10212/	9788768
				1 ELECTRICITY	97/	82059
				2 NATURAL GAS	39/	52641
				3 OIL	196/	59417
				4 OTHER	87/	46128
				9 NOT STATED	351/	330205

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
173	Q98	1	0232	USE OF SUPPLEMENTARY HEATING  NOT APPLICABLE 1 NO SUPPLEMENTARY HEATING 2 SUPPLEMENTARY HEATING USED  NOTE: DERIVED FROM Q97A,B,C,D 1 IF 'NO' OR 'DON'T KNOW' IN Q97A,B,C,AND D GO TO Q100 2 OTHERWISE CONTINUE	1975/ 3224052 5332/ 4285052 3675/ 2850112
174	Q99	1	0233	DURING THE LAST HEATING SEASON, WOULD YOU SAY YOU USED YOUR SUPPLEMENTARY HEATING SYSTEM...  NOT APPLICABLE 1 LESS THAN 25% OF THE TIME 2 25% TO 75% OF THE TIME 3 MORE THAN 75% OF THE TIME 4 DON'T KNOW 9 NOT STATED	7307/ 7509105 1942/ 1507086 792/ 611126 524/ 412709 43/ 39496 374/ 279695
175	Q100	1	0234	USE OF WOOD FOR HEATING  NOT APPLICABLE 1 WOOD USED FOR HEATING 2 WOOD NOT USED FOR HEATING  NOTE: DERIVED VARIABLE 1 IF 85 IS "WOOD" OR 91 IS "YES" (WOOD FIREPLACE) OR 97A IS "YES" (SUPPLEMENTARY WOOD STOVE), CONTINUE 2 OTHERWISE, GO TO 103	1975/ 3224052 3592/ 3015928 5415/ 4119236
176	Q101	1	0235	HOW MANY CORDS OF WOOD DO YOU USE IN AN AVERAGE YEAR?  NOT APPLICABLE 1 LESS THAN 1 2 1 - 3 3 4 - 6 4 MORE THAN 6 5 DON'T KNOW 9 NOT STATED	7390/ 7343289 853/ 989813 792/ 756461 786/ 359727 633/ 488378 181/ 253494 347/ 168056
177	Q102	1	0236	WHAT TYPE OF CORD IS IT?  NOT APPLICABLE 1 FACE OR STOVE (LESS THAN 4FT X 4FT X 8FT) 2 FULL OR BUSH (4FT X 4FT X 8FT) 3 OTHER 4 DON'T KNOW 9 NOT STATED	7571/ 7596783 939/ 1040888 1624/ 997552 170/ 172817 262/ 308781 416/ 242397
178	Q103A	2	0237-0238	AT WHAT TEMPERATURE DO YOU USUALLY MAINTAIN MOST OF YOUR HOME DURING THE HEATING SEASON, DURING THE DAYTIME (6AM-6PM)  NOT APPLICABLE 01 16C (61F) OR LESS 02 17C (62-63F) 03 18C (64-65F) 04 19C (66-67F) 05 20C (68-69F) 06 21C (70-71F) 07 22C (72F) 08 23C (73-74F) 09 24C (75F) OR MORE 10 DON'T KNOW 99 NOT STATED	1999/ 3241461 673/ 499551 217/ 167913 860/ 728732 464/ 476087 2468/ 1964011 2460/ 1906558 897/ 800956 302/ 22596 439/ 20824 104/ 57022 99/ 82719



FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
179	Q103B	2	0239-0240	AT WHAT TEMPERATURE DO YOU USUALLY MAINTAIN MOST OF YOUR HOME DURING THE HEATING SEASON, DURING THE EVENING(6PM-10PM)	
			NOT APPLICABLE		1999/ 3241461
			01 16C (61F) OR LESS		257/ 180380
			02 17C (62-63F)		117/ 79942
			03 18C (64-65F)		603/ 466945
			04 19C (66-67F)		405/ 384428
			05 20C (68-69F)		2516/ 2040505
			06 21C (70-71F)		2768/ 2210112
			07 22C (72F)		1152/ 992483
			08 23C (73-74F)		380/ 320091
			09 24C (75F) OR MORE		563/ 296547
			10 DON'T KNOW		115/ 65629
			99 NOT STATED		107/ 80694
180	Q103C	2	0241-0242	AT WHAT TEMPERATURE DO YOU USUALLY MAINTAIN MOST OF YOUR HOME DURING THE HEATING SEASON, OVER NIGHT (10PM-6AM)	
			NOT APPLICABLE		1999/ 3241461
			01 16C (61F) OR LESS		2055/ 1241953
			02 17C (62-63F)		618/ 470817
			03 18C (64-65F)		1758/ 1291062
			04 19C (66-67F)		687/ 625506
			05 20C (68-69F)		1852/ 1643313
			06 21C (70-71F)		1117/ 1098131
			07 22C (72F)		376/ 355912
			08 23C (73-74F)		119/ 130661
			09 24C (75F) OR MORE		176/ 114293
			10 DON'T KNOW		114/ 62381
			99 NOT STATED		111/ 83728
181	Q104	1	0243	HOW MANY STOREYS, EXCLUDING THE BASEMENT, DOES YOUR HOUSE HAVE?	
			NOT APPLICABLE		1975/ 3224052
			1 ONE STOREY		5004/ 3328597
			2 ONE AND ONE HALF STOREYS		1187/ 704174
			3 TWO STOREYS		1749/ 2135521
			4 TWO AND ONE HALF STOREYS		62/ 76135
			5 THREE STOREYS		93/ 162963
			6 SPLIT LEVEL		370/ 386977
			7 BI-LEVEL (SPLIT ENTRY)		210/ 127523
			8 OTHER		81/ 45258
			9 NOT STATED		251/ 168017
182	Q105	2	0244-0245	WHAT ARE MOST OF THE EXTERIOR WALLS OF YOUR HOUSE MADE OF?	
			NOT APPLICABLE		1975/ 3224052
			01 ALUMINUM/STEEL SIDING		1013/ 997120
			02 BRICK		840/ 2290151
			03 STUCCO		1102/ 882294
			04 VINYL SIDING		2196/ 1110550
			05 STONE/CONCRETE		55/ 88004
			06 WOOD		2958/ 1294533
			07 LDG		27/ 18049
			08 ASBESTOS SHINGLE		139/ 80164
			09 OTHER		354/ 166612
			10 DON'T KNOW		47/ 26121
			99 NOT STATED		276/ 181567

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
183	Q106	2	0246-0247	WHAT OTHER MATERIAL, IF ANY, IS USED ON THE EXTERIOR WALLS?	
				NOT APPLICABLE	1975/ 3224052
				01 ALUMINUM/STEEL SIDING	341/ 769412
				02 BRICK	654/ 602942
				03 STUCCO	180/ 224938
				04 VINYL SIDING	351/ 323895
				05 STONE/CONCRETE	186/ 261684
				06 WOOD	839/ 666228
				07 LOG	3/ 2611
				08 ASBESTOS SHINGLE	42/ 55578
				09 OTHER	216/ 98535
				10 NONE	5418/ 3451193
				11 DON'T KNOW	126/ 78902
				99 NOT STATED	651/ 599247
184	Q107	1	0248	TO YOUR KNOWLEDGE, HAVE ANY IMPROVEMENTS BEEN MADE TO THE INSULATION OF THE WALLS, EXCLUDING SIDING?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	2131/ 1513191
				2 NO	6224/ 5096468
				3 DON'T KNOW	375/ 338314
				9 NOT STATED	277/ 187192
185	Q107A	1	0249	WAS THE INSULATION ADDED TO THE OUTSIDE OR PUT INSIDE THE WALL?	
				NOT APPLICABLE	8574/ 8658834
				1 OUTSIDE	694/ 379566
				2 INSIDE	872/ 665110
				3 BOTH	184/ 14196
				4 DON'T KNOW	52/ 4966
				9 NOT STATED	606/ 464079
186	Q107B	1	0250	WHEN WAS THE INSULATION ADDED?	
				NOT APPLICABLE	8574/ 8658834
				1 '77 OR EARLIER	315/ 225866
				2 '78-'83	500/ 318031
				3 '84 OR LATER	1120/ 782186
				4 DON'T KNOW	50/ 38604
				9 NOT STATED	423/ 335695
187	Q108	1	0251	TO YOUR KNOWLEDGE, HAVE ANY IMPROVEMENTS BEEN MADE TO THE INSULATION OF THE ROOF OR THE ATTIC, EXCLUDING REPLACEMENT OF ROOF?	
				NOT APPLICABLE	1975/ 3224052
				1 YES	3064/ 2511701
				2 NO	5251/ 4099576
				3 DON'T KNOW	406/ 335017
				9 NOT STATED	286/ 188870
188	Q108A	1	0252	WHEN WERE THE IMPROVEMENTS MADE?	
				NOT APPLICABLE	7632/ 7658646
				1 '77 OR EARLIER	463/ 443864
				2 '78-'83	1080/ 890812
				3 '84 OR LATER	1383/ 1020378
				4 DON'T KNOW	84/ 85624
				9 NOT STATED	340/ 259893

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
189	Q109	2	0253-0254	APPROXIMATELY, WHAT IS THE TOTAL HEATED LIVING AREA OF YOUR HOUSE (SQ. FT.), EXCLUDING BASEMENT AND GARAGE?	
				NOT APPLICABLE	1975/ 3224052
			01	LESS THAN 600 SQ. FT.	518/ 302444
			02	601-1000	2379/ 1598539
			03	1001-1500	3128/ 2559765
			04	1501-2000	1052/ 1030700
			05	2001-2500	422/ 550785
			06	2501 SQ. FT. OR MORE	323/ 315373
			10	RESPONDED TO NUMBER OF ROOMS IN Q109A	718/ 420273
			11	DON'T KNOW	333/ 241510
			99	NOT STATED	134/ 115776
190	Q109A	2	0255-0256	TOTAL NUMBER OF HEATED ROOMS EXCLUDING BASEMENT, ATTIC AND BATHROOMS. (IF SQUARE FOOTAGE NOT AVAILABLE)	
				NOT APPLICABLE	10130/ 9823168
			01:15		718/ 420273
			99	NOT STATED	134/ 115776
191	Q110DV	1	0257	DOES THIS HOUSE HAVE A BASEMENT?	
				NOT APPLICABLE	1975/ 3224052
			1	FULL BASEMENT	5883/ 4916530
			2	FULL AND PARTIAL BASEMENT	3/ 3780
			3	FULL AND CRAWL SPACE	35/ 37720
			4	PARTIAL BASEMENT	1069/ 715821
			5	PARTIAL AND CRAWL SPACE	109/ 102668
			6	CRAWL SPACE	657/ 523058
			7	NO BASEMENT	1020/ 704799
			9	NOT STATED	231/ 130790
				NOTE: CATEGORIES DERIVED FROM Q110	
192	Q111	4	0258-0261	WHAT IS THE SQUARE FOOTAGE OF YOUR BASEMENT OR CRAWL SPACE?	
				NOT APPLICABLE	2998/ 3929648
			10:6000		5312/ 4504415
			9998	DON'T KNOW	1143/ 815287
			9999	NOT STATED	1529/ 1109867
193	Q112	1	0262	ARE THE BASEMENT WALLS (FOUNDATION) INSULATED ON THE INSIDE?	
				NOT APPLICABLE	2995/ 3928852
			1	YES	4340/ 4060702
			2	NO	3133/ 1904496
			3	DON'T KNOW	172/ 227304
			9	NOT STATED	342/ 237863
194	Q112A	1	0263	HOW ARE THE BASEMENT WALLS INSULATED?	
				NOT APPLICABLE	6300/ 6060652
			1	FULLY INSULATED	2422/ 2209441
			2	PARTLY INSULATED	1394/ 1323946
			3	DON'T KNOW	5/ 876
			9	NOT STATED	861/ 764302
195	Q113	1	0264	TO YOUR KNOWLEDGE, HAVE ANY IMPROVEMENTS BEEN MADE TO THE INSULATION OF THE BASEMENT WALLS?	
				NOT APPLICABLE	6411/ 6167724
			1	YES	1375/ 1418239
			2	NO	2778/ 2473435
			3	DON'T KNOW	135/ 121490
			9	NOT STATED	283/ 178329

FIELD	ACRONYM	LEN	POSITION	QUESTION AND VARIABLE DESCRIPTIONS	UNWTD/WEIGHTED
196	Q113A	1	0265	WHEN?  NOT APPLICABLE 1 '77 OR EARLIER 2 '78-'83 3 '84 OR LATER 4 DON'T KNOW 9 NOT STATED	9324/ 8762649 176/ 236816 320/ 305382 812/ 781567 28/ 35453 322/ 237349
197	Q114	1	0266	NOT INCLUDING CARPETING OR FLOORING, IS THE BASEMENT FLOOR INSULATED?  NOT APPLICABLE 1 YES 2 NO 3 DON'T KNOW 9 NOT STATED	2995/ 3928852 578/ 572563 6780/ 5296274 212/ 266042 417/ 295486
198	Q114A	1	0267	IS IT...  NOT APPLICABLE 1 FULLY INSULATED? 2 PARTLY INSULATED? 3 DON'T KNOW? 9 NOT STATED	10015/ 9530289 280/ 274951 211/ 196378 2/ 4239 474/ 353360
199	Q115	1	0268	TO YOUR KNOWLEDGE, HAVE ANY IMPROVEMENTS BEEN MADE TO THE INSULATION OF THE BASEMENT FLOOR?  NOT APPLICABLE 1 YES 2 NO 3 DON'T KNOW 9 NOT STATED	9991/ 9492161 179/ 216755 403/ 370803 19/ 2093 390/ 25856
200	Q115A	1	0269	WHEN?  NOT APPLICABLE 1 '77 OR EARLIER 2 '78-'83 3 '84 OR LATER 4 DON'T KNOW 9 NOT STATED	10413/ 9883899 16/ 10303 27/ 31947 100/ 117958 4/ 2339 422/ 312770
201	Q116	1	0270	IS THE BASEMENT USUALLY HEATED?  NOT APPLICABLE 1 YES 2 NO 3 DON'T KNOW 9 NOT STATED	2995/ 3928852 5394/ 4767521 2202/ 1382897 17/ 11645 374/ 268302
202	Q117	1	0271	HOW MUCH OF THE BASEMENT AREA IS HEATED?  NOT APPLICABLE 1 THE WHOLE BASEMENT 2 MORE THAN ONE HALF 3 ABOUT ONE HALF 4 LESS THAN HALF 5 DON'T KNOW 9 NOT STATED	5214/ 5323394 4410/ 4008674 458/ 331559 300/ 269001 141/ 83725 11/ 18317 448/ 324548
203	Q118	1	0272	DO YOU HAVE A HEATED GARAGE SOLELY FOR THE USE OF YOUR HOUSEHOLD?  NOT APPLICABLE 1 YES 2 NO 9 NOT STATED	1975/ 3224052 630/ 72827 8192/ 629845 185/ 108438



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