

1995 Homeowner Repair and Renovation Survey

and

1995 Home Energy Retrofit Survey

Public-use Microdata File

Family Expenditure Surveys Section
Household Surveys Division
Statistics Canada

August 1997

Version 1

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Part 1

Introduction

This public-use microdata tape is the second available using data from the Homeowner Repair and Renovation Survey (funded by Canada Mortgage and Housing Corporation (CMHC), Natural Resources Canada and Statistics Canada) and data from the Home Energy Retrofit Survey (funded by Natural Resources Canada). The surveys were carried out in March 1996 as a supplement to the Labour Force Survey and refers to calendar year 1995. These surveys provide information for homeowners living in private households in the ten provinces of Canada.

Only homeowners who owned and occupied the current dwelling for 12 months in 1995 are included on this file. This is a change from the 1994 version of the file.

This documentation of the file is intended to help users interpret data correctly. The record layout gives the basic content of the file with the names of the items, their field number and position on the file. The record layout (file) consists of 5 main sections:

- Location
- Household Characteristics
- Housing
- Expenditures for Repairs and Renovation
- Home Energy Retrofit Activities

The section called “Variable Descriptions” gives the components of each item, the area in the questionnaire from which the variable was derived, and clarifying notes if needed.

The “User’s guide” area is especially important to users who are using other sources of statistics in conjunction with the HRRS and HERS data.

A list of the questions used to collect the data (Computer Assisted Interview) is included with the package.

In 1995, 1,045 households were excluded because they had occupied the current dwelling for less than 12 months.

Part 2

THE PUBLIC USE MICRODATA FILE

TECHNICAL CHARACTERISTICS OF THE FILE

CONTENT: Homeowner Repair and Renovation - 1995
Home Energy Retrofit - 1995

SOURCE: Homeowner Repair and Renovation Survey in 1995
Home Energy Retrofit Survey in 1995
Household Surveys Division
Statistics Canada

DATA SET DEFINITION:

FILE SEQUENCE NUMBER: 1

NUMBER OF RECORDS: 18,616 records

FORMAT: Fixed Length
Record size = 561

SEQUENCE CONTROL FIELD TITLE: Identification Number

SEQUENCE ORDER: Ascending

RECORD LAYOUT: Supplied - see next page

RECORD LAYOUT

<u>FIELD</u>	<u>SIZE</u>	<u>POSITION</u>	<u>TYPE</u>	<u>TITLE</u>
<u>LOCATION</u>				
1	5	1 - 5	N	IDENTIFICATION NUMBER
2	4	6 - 9	N	WEIGHT
3	2	10 - 11	N	GEOGRAPHIC CODE
4	2	12 - 13	N	SIZE OF AREA OF RESIDENCE
<u>HOUSEHOLD CHARACTERISTICS</u>				
5	2	14 - 15	N	NUMBER OF PERSONS IN HOUSEHOLD
6	2	16 - 17	N	NUMBER OF CHILDREN (UNDER 15 YEARS OF AGE)
7	2	18 - 19	N	NUMBER OF ADULTS (15 YEARS OF AGE OR OLDER)
8	2	20 - 21	N	AGE OF REFERENCE PERSON
9	1	22	N	SEX OF REFERENCE PERSON
10	1	23	N	MARITAL STATUS OF REFERENCE PERSON
11	1	24	N	EDUCATION OF REFERENCE PERSON
12	1	25	N	HOUSEHOLD COMPOSITION
<u>HOUSING</u>				
13	2	26 - 27	N	MONTHS DWELLING(S) OWNED AND OCCUPIED
14	1	28	N	TYPE OF DWELLING OCCUPIED BY HOUSEHOLD AT TIME OF SURVEY
15	1	29	N	YEAR THE DWELLING WAS ORIGINALLY CONSTRUCTED
16	4	30 - 33	N	TOTAL HEATED LIVING AREA OF DWELLING
17	1	34	N	UNIT OF MEASURE FOR HEATED LIVING AREA
18	2	35 - 36	N	TOTAL HOUSEHOLD INCOME GROUP
<u>EXPENDITURES</u>				
ADDITIONS:				
19	7	37 - 43	N	TOTAL EXPENDITURES FOR ADDITIONS
20	7	44 - 50	N	- CONTRACTED WORK OUT
21	7	51 - 57	N	- MATERIALS PURCHASED SEPARATELY
ADDITIONS - CONTRACTS AND MATERIALS				
22	7	58 - 64	N	GARAGE OR CAR PORT
23	7	65 - 71	N	OTHER STRUCTURAL EXTENSIONS (ROOMS, SHEDS, DECKS)
TYPE OF STRUCTURAL EXTENSION:				
24	1	72	N	BEDROOM
25	1	73	N	BATHROOM
26	1	74	N	PORCH, DECK OR BALCONY
27	1	75	N	GREENHOUSE OR GARDEN SHED
28	1	76	N	SUNROOM
29	1	77	N	SOME OTHER AREA
30	7	78 - 84	N	AN INGROUND SWIMMING POOL
31	7	85 - 91	N	FENCES, PATIOS OR DRIVEWAYS
32	7	92 - 98	N	LANDSCAPING

RECORD LAYOUT - continued

<u>FIELD</u>	<u>SIZE</u>	<u>POSITION</u>	<u>TYPE</u>	<u>TITLE</u>
<u>EXPENDITURES</u>				
RENOVATIONS AND ALTERATIONS:				
33	7	99 - 105	N	TOTAL EXPENDITURES FOR RENOVATIONS AND ALTERATIONS
34	7	106 - 112	N	- CONTRACTED WORK OUT
35	7	113 - 119	N	- MATERIALS PURCHASED SEPARATELY
36	7	120 - 126	N	COMBINATION OF INTERIOR AND EXTERIOR WORK DONE - CONTRACTS AND MATERIALS
TYPE OF INTERIOR AND EXTERIOR WORK:				
37	1	127	N	BATHROOM
38	1	128	N	KITCHEN
39	1	129	N	BASEMENT OR ATTIC
40	1	130	N	SOME OTHER AREA
41	7	131 - 137	N	EXTERIOR WORK ONLY - CONTRACTS AND MATERIALS
TYPE OF EXTERIOR WORK:				
42	1	138	N	WINDOW
43	1	139	N	DOOR
44	1	140	N	SIDING
45	1	141	N	ROOF OR EAVESTROUGHING
46	1	142	N	PORCH, DECK OR BALCONY
47	1	143	N	SOME OTHER AREA
48	7	144 - 150	N	INTERIOR WORK ONLY - CONTRACTS AND MATERIALS
TYPE OF INTERIOR WORK:				
49	1	151	N	BATHROOM
50	1	152	N	KITCHEN
51	1	153	N	BASEMENT OR ATTIC
52	1	154	N	SOME OTHER AREA
REPLACEMENT OF EQUIPMENT:				
53	7	155 - 161	N	TOTAL EXPENDITURES FOR REPLACEMENT OF EQUIPMENT
54	7	162 - 168	N	- CONTRACTED WORK OUT
55	7	169 - 175	N	- MATERIALS PURCHASED SEPARATELY
REPLACEMENT OF EQUIPMENT - CONTRACTS AND MATERIALS:				
56	7	176 - 182	N	PLUMBING FIXTURES
57	7	183 - 189	N	HEATING OR AIR CONDITIONING EQUIPMENT
58	7	190 - 196	N	ELECTRICAL FIXTURES OR EQUIPMENT
59	7	197 - 203	N	BUILT-IN APPLIANCES
60	7	204 - 210	N	WALL-TO-WALL CARPETING
61	7	211 - 217	N	OTHER FIXTURES OR BUILT-IN EQUIPMENT

RECORD LAYOUT - continued

<u>FIELD</u>	<u>SIZE</u>	<u>POSITION</u>	<u>TYPE</u>	<u>TITLE</u>
<u>EXPENDITURES</u>				
NEW INSTALLATIONS OF EQUIPMENT:				
62	7	218 - 224	N	TOTAL EXPENDITURES FOR NEW INSTALLATION OF EQUIPMENT
63	7	225 - 231	N	- CONTRACTED WORK OUT
64	7	232 - 238	N	- MATERIALS PURCHASED SEPARATELY
NEW INSTALLATIONS OF EQUIPMENT - CONTRACTS AND MATERIALS:				
65	7	239 - 245	N	PLUMBING FIXTURES
66	7	246 - 252	N	HEATING OR AIR CONDITIONING EQUIPMENT
67	7	253 - 259	N	ELECTRICAL FIXTURES OR EQUIPMENT
68	7	260 - 266	N	BUILT-IN APPLIANCES
69	7	267 - 273	N	WALL-TO-WALL CARPETING
70	7	274 - 280	N	OTHER FIXTURES OR BUILT-IN EQUIPMENT
REPAIRS AND MAINTENANCE:				
71	7	281 - 287	N	TOTAL EXPENDITURES FOR REPAIRS AND MAINTENANCE
72	7	288 - 295	N	- CONTRACTED WORK OUT
73	7	295 - 301	N	- MATERIALS PURCHASED SEPARATELY
REPAIRS AND MAINTENANCE - CONTRACTS AND MATERIALS:				
74	7	302 - 308	N	INTERIOR OR EXTERIOR PAINTING
75	7	309 - 315	N	WALL PAPERING
76	7	316 - 322	N	INTERIOR WALLS & CEILINGS
77	7	323 - 329	N	HARD SURFACE FLOORING AND WALL-TO-WALL CARPETING
78	7	330 - 336	N	COMPLETE RE-ROOFING
79	7	337 - 343	N	EAVESTROUGHING AND OTHER ROOF REPAIRS
80	7	344 - 350	N	EXTERIOR WALLS
81	7	351 - 357	N	CAULKING AND WEATHERSTRIPPING
82	7	358 - 364	N	OUTDOOR PATIOS, FENCES AND DRIVEWAYS
83	7	365 - 371	N	HEATING AND AIR CONDITIONING SYSTEMS
84	7	372 - 378	N	PLUMBING EQUIPMENT
85	7	379 - 385	N	ELECTRICAL EQUIPMENT
86	7	386 - 392	N	CARPENTRY (INCLUDE WOODEN FLOORING)
87	7	393 - 399	N	OTHER REPAIRS AND MAINTENANCE

RECORD LAYOUT - continued

<u>FIELD</u>	<u>SIZE</u>	<u>POSITION</u>	<u>TYPE</u>	<u>TITLE</u>
				REASONS FOR CONDUCTING REPAIRS AND RENOVATION:
88	1	400	N	ADD VALUE OR MAKE DWELLING MORE SALEABLE
89	1	401	N	PROVIDE MORE SPACE OR ADD A ROOM
90	1	402	N	REGULAR MAINTENANCE OR REPAIR A BROKEN ITEM
91	1	403	N	MAKE HOME MORE ATTRACTIVE OR MODERN
92	1	404	N	MAKE HOME MORE ENERGY EFFICIENT
93	1	405	N	CREATE OR MODIFY A RENTAL UNIT
94	1	406	N	CREATE OR MODIFY AN OFFICE FOR WORKING AT HOME
95	1	407	N	OTHER REASONS
				INFORMATION TO HELP PLANNING REPAIRS AND RENOVATIONS
96	1	408	N	USED TECHNICAL INFORMATION FOR PLANNING REPAIRS AND RENOVATIONS
97	1	409	N	CONSULTED BOOKS, MAGAZINES OR VIDEOS
98	1	410	N	FOLLOWED INSTRUCTIONS FROM ITEM
99	1	411	N	SOUGHT ADVICE FROM FRIENDS OR NEIGHBOURS
100	1	412	N	SOUGHT ADVICE FROM BUILDING SUPPLY STORE
101	1	413	N	SOUGHT ADVICE FROM CONTRACTOR OR HOME BUILDERS ASSOCIATIONS
102	1	414	N	SOUGHT ADVICE FROM THE CANADA MORTGAGE AND HOUSING CORPORATION
103	1	415	N	OTHER SOURCES
				MONEY BORROWED FOR REPAIRS AND RENOVATIONS
104	1	416	N	DID YOU BORROW MONEY FOR REPAIRS AND RENOVATIONS
105	7	417-423	N	HOW MUCH MONEY WAS BORROWED
				REASONS FOR NOT USING A CONTRACTOR FOR REPAIRS AND RENOVATIONS
106	1	424	N	TOO EXPENSIVE OR CAN'T AFFORD IT
107	1	425	N	COULD NOT GET A CONTRACTOR TO MAKE A PROPOSAL
108	1	426	N	DID NOT LIKE THE PROPOSAL FROM CONTRACTOR
109	1	427	N	DID NOT HAVE ENOUGH CONFIDENCE IN CONTRACTOR
110	1	428	N	ENJOY DOING THIS TYPE OF WORK
111	1	429	N	AVAILABILITY OF FREE LABOUR
112	1	430	N	OTHER REASONS

RECORD LAYOUT - continued

<u>FIELD</u>	<u>SIZE</u>	<u>POSITION</u>	<u>TYPE</u>	<u>TITLE</u>
<u>HOME ENERGY RETROFIT ACTIVITIES</u>				
INSULATION:				
113	1	431	N	IMPROVEMENTS TO INSULATION
114	1	432	N	WALL INSULATION (EXCLUDING BASEMENT)
115	1	433	N	WHERE WAS WALL INSULATION ADDED
116	1	434	N	BASEMENT WALL INSULATION
117	1	435	N	WHERE WAS BASEMENT WALL INSULATION ADDED
118	1	436	N	REPLACEMENT OR UPGRADE OF EXISTING INSULATION
119	1	437	N	NEW INSTALLATION (TO A WALL NOT PREVIOUSLY INSULATED)
120	1	438	N	HEATED BASEMENT IN 1995
121	1	439	N	HEATED BASEMENT BEFORE 1995
122	1	440	N	VERY LITTLE OR NO INSULATION IN BASEMENT WALLS
123	1	441	N	INSULATION ON TOP HALF OF BASEMENT WALLS ONLY
124	1	442	N	INSULATION FROM CEILING TO FLOOR
125	1	443	N	ROOF OR ATTIC INSULATION
126	1	444	N	BASEMENT FLOORS INSULATION (EXCLUDING CARPET)
127	1	445	N	GARAGE INSULATION
128	1	446	N	OTHER AREAS INSULATED
WINDOWS:				
129	1	447	N	IMPROVEMENTS TO WINDOWS
NUMBER OF WINDOWS UPGRADED:				
130	2	448 - 449	N	FROM SINGLE TO DOUBLE PANE
131	2	450 - 451	N	FROM DOUBLE TO TRIPLE PANE
132	2	452 - 453	N	WITH SAME NUMBER OF PANES
133	2	454 - 455	N	WITH CAULKING OR WEATHERSTRIPPING
134	2	456 - 457	N	NUMBER OF STORM WINDOWS ADDED TO SINGLE PANE WINDOWS
135	1	458	N	OTHER IMPROVEMENTS TO WINDOWS
DOORS:				
136	1	459	N	IMPROVEMENTS TO EXTERIOR DOORS
137	2	460 - 461	N	NUMBER OF DOORS UPGRADED FROM WOOD TO METAL
138	1	462	N	UPGRADE FROM/TO ANY OTHER TYPE OF DOOR
139	2	463 - 464	N	NUMBER OF STORM DOORS ADDED TO EXTERIOR DOORS
140	2	465 - 466	N	NUMBER OF DOORS UPGRADED WITH CAULKING OR WEATHERSTRIPPING
141	1	467	N	OTHER IMPROVEMENTS TO DOORS

RECORD LAYOUT - continued

<u>FIELD</u>	<u>SIZE</u>	<u>POSITION</u>	<u>TYPE</u>	<u>TITLE</u>
				HEATING AND VENTILATION SYSTEMS INFORMATION:
142	1	468	N	INSTALLATION OR UPGRADE OF A MECHANICAL VENTILATION SYSTEM
143	1	469	N	INSTALLED A CENTRAL VENTILATION SYSTEM (AIR EXCHANGER)
144	1	470	N	HEAT RECOVERY
145	1	471	N	INSTALLED EXHAUST FANS (SUCH AS BATHROOM FANS)
146	1	472	N	UPGRADED OR FIXED EXISTING EXHAUST FANS
147	1	473	N	OTHER INSTALLATION OR UPGRADES TO MECHANICAL VENTILATION SYSTEM
148	1	474	N	PRINCIPAL HEATING SYSTEM (CURRENT)
149	1	475	N	PRINCIPAL HEATING SYSTEM (PREVIOUS)
				CURRENT FUEL OR ENERGY SOURCE:
150	1	476	N	OIL
151	1	477	N	NATURAL GAS
152	1	478	N	PROPANE
153	1	479	N	ELECTRICITY
154	1	480	N	WOOD
155	1	481	N	OTHER SOURCE
156	1	482	N	CURRENT SYSTEM IS A BI-ENERGY
				PREVIOUS FUEL OR ENERGY SOURCE
157	1	483	N	ELECTRICITY
158	1	484	N	WOOD
159	1	485	N	PROPANE
160	1	486	N	NATURAL GAS
161	1	487	N	OIL
162	1	488	N	OTHER SOURCE
163	1	489	N	PRECIOUS SYSTEM WAS A BI-ENERGY
				REPLACEMENT/UPGRADE TO HEATING EQUIPMENT
164	1	490	N	REPLACEMENT OF BURNER
165	1	491	N	INSTALLATION OF A NEW FURNACE/BOILER
166	1	492	N	MID OR HIGH EFFICIENCY GAS FURNACE OR BOILER
167	1	493	N	ADDITION (NOT REPLACEMENT) OF ELECTRIC BASEBOARD HEATERS
168	1	494	N	OTHER UPGRADES OR REPLACEMENTS TO HEATING EQUIPMENT
169	1	495	N	
				TAP WATER HEATING SYSTEM
170	2	496-497	N	CURRENT TYPE OF PRINCIPAL WATER HEATING SYSTEM
171	2	498-499	N	PREVIOUS TYPE OF PRINCIPAL WATER HEATING SYSTEM

RECORD LAYOUT - continued

FIELD	SIZE	POSITION	TYPE	TITLE
FEATURES ADDED TO REDUCE ENERGY CONSUMPTION:				
172	1	500	N	ADDITION OF HEAT PUMP
173	1	501	N	ENERGY SAVING FEATURES ADDED
174	1	502	N	PROGRAMMABLE THERMOSTAT
175	1	503	N	INSULATION BLANKET AROUND OUTSIDE OF HOT WATER TANK
176	1	504	N	INSULATION AROUND HOT WATER SYSTEM PIPES
177	1	505	N	INSULATION AROUND AIR DUCTS AND/OR SEALING LEAKY DUCTWORK
178	1	506	N	LOW FLOW SHOWER HEADS
179	1	507	N	ATTACHMENT OF AERATORS TO HOT WATER FAUCETS
180	1	508	N	FLUORESCENT LIGHTS TO REPLACE CONVENTIONAL LIGHT BULBS
181	1	509	N	OTHER ENERGY SAVING FEATURES ADDED
FLOOR SPACE INFORMATION:				
182	1	510	N	FLOOR SPACE ADDED TO DWELLING
183	4	511 - 514	N	SIZE OF FLOOR SPACE ADDED
184	1	515	N	UNIT OF MEASURE FOR ADDED FLOOR SPACE
FIREPLACE INFORMATION:				
185	1	516	N	ADDITION OF FIREPLACE
WOOD BURNING FIREPLACE:				
186	1	517	N	ADDITION OF WOOD BURNING FIREPLACE FEATURES OF WOOD BURNING FIREPLACE:
187	1	518	N	MASONRY(BRICK) FIREPLACE
188	1	519	N	PREFAB METAL FIREPLACE
189	1	520	N	EQUIPPED WITH GLASS DOORS
190	1	521	N	ADVANCED COMBUSTION, HIGH-EFFICIENCY FIREPLACE
GAS OR PROPANE BURNING FIREPLACE:				
191	1	522	N	ADDITION OF A GAS OR PROPANE BURNING FIREPLACE FEATURES OF GAS OR PROPANE BURNING FIREPLACE:
192	1	523	N	GAS LOG SET IN EXISTING FIREPLACE
193	1	524	N	NATURAL DRAFT GAS FIREPLACE WITH GLASS DOORS
194	1	525	N	POWER VENTED GAS FIREPLACE WITH GLASS DOORS
195	1	526	N	DIRECT VENT GAS FIREPLACE (HIGH-EFFICIENCY)
UPGRADES OR ADDITIONS MADE TO FIREPLACE				
196	1	527	N	UPGRADES OR ADDITIONS MADE TO FIREPLACE
197	1	528	N	ADDITION OF INSERT TO EXISTING WOOD FIREPLACE
198	1	529	N	ADDITION OF GLASS DOORS TO EXISTING WOOD FIREPLACE
199	1	530	N	INSTALLATION OF A NEW WOOD FIREPLACE WITHOUT INSERT
200	1	531	N	INSTALLATION OF A NEW WOOD FIREPLACE WITH INSERT
201	1	532	N	CONVERSION OF EXISTING WOOD FIREPLACE TO A GAS FIREPLACE
202	1	533	N	OTHER TYPES OF UPGRADES OR ADDITIONS

RECORD LAYOUT - concluded

<u>FIELD</u>	<u>SIZE</u>	<u>POSITION</u>	<u>TYPE</u>	<u>TITLE</u>
MOTIVATION FOR PERFORMING WORK:				
203	1	534	N	WORK DONE ON INSULATION, WINDOWS, DOORS
REASONS FOR DOING WORK ON INSULATION, WINDOWS OR DOORS:				
204	1	535	N	MAINTENANCE
205	1	536	N	APPEARANCE
206	1	537	N	COMFORT
207	1	538	N	ENERGY SAVINGS
208	1	539	N	ADDITION OF LIVING SPACE
209	1	540	N	RESALE VALUE OF HOME
210	1	541	N	CONCERN ABOUT THE ENVIRONMENT
211	1	542	N	INCLUDED IN A RENOVATION PROJECT
212	1	543	N	INDOOR AIR QUALITY/HEALTH
213	1	544	N	OTHER REASONS
214	1	545	N	WORK DONE BY CERTIFIED GENERAL CONTRACTOR
WHERE DID YOU GET THE INFORMATION				
215	1	546	N	RETAIL STORE\HOME CENTERS
216	1	547	N	MAGAZINES\NEWSPAPERS
217	1	548	N	FRIENDS\RELATIVES
218	1	549	N	PERSONAL KNOWLEDGE
219	1	550	N	CONTRACTOR
220	1	551	N	OTHER
CHANGES, ADDITIONS OR IMPROVEMENTS TO HEATING/VENTILATION EQUIPMENT				
221	1	552	N	
REASONS FOR DOING WORK ON HEATING/VENTILATION EQUIPMENT:				
222	1	553	N	MAINTENANCE
223	1	554	N	COMFORT
224	1	555	N	ENERGY SAVINGS
225	1	556	N	ADDITION OF LIVING SPACE
226	1	557	N	RESALE VALUE OF HOME
227	1	558	N	CONCERN ABOUT THE ENVIRONMENT
228	1	559	N	INCLUDED IN A RENOVATION PROJECT
229	1	560	N	INDOOR AIR QUALITY/HEALTH
230	1	561	N	OTHER REASONS

Part 3

VARIABLE DESCRIPTIONS

LOCATION

IDENTIFICATION NUMBER

This variable is a unique five-digit number which identifies each household on the file. The numbers begin with 00001 and increment by one for each new household in the sample up to a maximum of 18,616. The file is sorted by Geographic Code.

WEIGHT

In order to provide estimates applicable to the population in the 10 provinces, it is necessary to weight each record by a weighting factor. This weighting factor reflects the variation in sampling and response rates between geographic areas and household types. As compared with previously released results, records have been reweighted to mask location within geographic areas.

GEOGRAPHIC CODE

Code	Classification	Unweighted	Weighted
00	Masked records	322	128,800
10	Newfoundland	836	150,138
11	Prince Edward Island	543	34,906
12	Nova Scotia	1,360	246,748
13	New Brunswick	1,224	207,032
24	Quebec	3,404	1,626,619
35	Ontario	5,399	2,624,688
46	Manitoba	1,334	284,835
47	Saskatchewan	1,255	265,989
48	Alberta	1,366	686,509
59	British Columbia	1,573	950,180

NOTE:

This two digit code identifies the province and region in which the surveyed unit is located. The first digit of the code gives the regional location and the second digit identifies the province. Note the 00 code for Special Household Units. Household units with exceptionally high expenditures or unusual characteristics (e.g. large family size, large number of children) have the Province code masked to ensure confidentiality.

SIZE OF AREA OF RESIDENCE

Code	Classification	Unweighted	Weighted
1	500,000 or more	3,381	2,936,635
2	100,000 - 499,999	4,895	1,404,436
3	30,000 - 99,999	1,414	545,812
4	Under 30,000	3,197	862,385
5	Rural areas	5,729	1,457,176

NOTE:

This variable indicates the population size of the area in which the surveyed unit is located. Population figures to classify this variable were obtained from the 1991 Census and apply to the population covered by the Labour Force Survey within 1996 Census boundaries to conform with the sample design.

HOUSEHOLD CHARACTERISTICS

NUMBER OF PERSONS IN HOUSEHOLD

Code	Classification	Unweighted	Weighted
1-12	Actual number of persons	18,616	7,206,444

SOURCE:

Labour Force Survey, 1996.

NUMBER OF CHILDREN (UNDER 15 YEARS OF AGE)

Code	Classification	Unweighted	Weighted
0	No children in household	12,423	4,885,675
1-8	Actual number of children	6,193	2,320,769

SOURCE:

Labour Force Survey, 1996.

NUMBER OF ADULTS (15 YEARS OF AGE OR OLDER)

Code	Classification	Unweighted	Weighted
1-10	Actual number of adults	18,616	7,206,444

SOURCE:

Labour Force Survey, 1996.

AGE OF REFERENCE PERSON

Code	Classification	Unweighted	Weighted
24	Less than 25 years	130	57,731
25-75	Actual age of reference person	17,039	6,663,407
76	76 years or older	1,447	485,306

SOURCE:

Labour Force Survey, 1996.

SEX OF REFERENCE PERSON

Code	Classification	Unweighted	Weighted
1	Male	13,832	5,353,006
2	Female	4,784	1,853,438

SOURCE:

Labour Force Survey, 1996.

MARITAL STATUS OF REFERENCE PERSON

Code	Classification	Unweighted	Weighted
1	Married	14,198	5,476,302
2	Single	1,147	519,210
3	Widowed	1,998	695,077
4	Separated/Divorced	1,273	515,855

SOURCE:

Labour Force Survey, 1996.

EDUCATION OF REFERENCE PERSON

Code	Classification	Unweighted	Weighted
1	Grades 0 to 8	3,162	1,041,232
2	Some high school	3,231	1,105,846
3	Graduated high school	3,111	1,313,007
4	Some post-secondary	1,100	454,571
5	Certificate/Diploma	5,495	2,117,291
6	University Degree	2,517	1,174,497

SOURCE:

Labour Force Survey, 1996.

HOUSEHOLD COMPOSITION

Code	Classification	Unweighted	Weighted
1	One unattached individual	2,839	1,088,377
2	One family only	15,522	5,991,265
3	Multi-unit household: only unattached individuals	194	101,395
4	Multi-unit household: at least one family	61	25,407

SOURCE:

Labour Force Survey, 1996.

HOUSING

MONTHS DWELLING(S) OWNED AND OCCUPIED

Code	Classification	Unweighted	Weighted
12	Twelve months or more	18,616	7,206,444

SOURCE:

HRRS questionnaire, questions 1, 2aa, 2b, 2d. Dwellings occupied by all members of the household in 1995.

NOTE:

Please note that for completing the Home Energy Retrofit Survey in 1995, the dwelling had to be owned and occupied for 12 months in question 1 of HRRS.

Question 2aa was asked only if someone in the household owned and occupied one other dwelling.

Questions 2b and 2d were asked only if someone in the household owned and occupied more than one other dwellings.

A household could have owned a dwelling for more than 12 months when more than one of the members of the household have owned and occupied more than one dwelling in the survey year.

TYPE OF DWELLING OCCUPIED BY HOUSEHOLD AT TIME OF SURVEY

Code	Classification	Unweighted	Weighted
1	Single Detached	15,932	5,835,931
2	Apartment	582	398,904
3	Double	661	364,983
4	Row/Terrace	417	266,606
5	Duplex	311	133,477
6	Mobile home	713	206,543

SOURCE:

Labour Force Survey, 1996.

YEAR THE DWELLING WAS ORIGINALLY CONSTRUCTED

Code	Classification	Unweighted	Weighted
1	Before 1941	3,137	1,062,294
2	1941 - 1950	1,408	532,020
3	1951 - 1960	2,056	842,660
4	1961 - 1970	2,683	1,034,153
5	1971 - 1980	4,519	1,688,682
6	1981 - 1990	3,533	1,455,152
7	1991 - 1995	1,280	591,483

SOURCE:

HERS questionnaire, question 21 and HFE 1996. Year of dwelling construction.

TOTAL HEATED LIVING AREA OF DWELLING

Weighted Average

1269.66

SOURCE:

HERS questionnaire, question 16. Total heated living area of dwelling (excluding basement and garage).

UNIT OF MEASURE FOR HEATED LIVING AREA

Code	Classification	Unweighted	Weighted
1	Square feet	15,787	6,207,389
2	Square meters	16	8,044
3	Number of rooms	2,813	991,011
4	Other units	0	0

SOURCE:

HERS questionnaire, question 16b. Unit of measure for heated living area.

TOTAL HOUSEHOLD INCOME GROUP

Code	Classification	Unweighted	Weighted
1	Under \$10,000	414	129,582
2	\$10,000 - \$14,999	1,109	338,217
3	\$15,000 - \$19,999	1,148	373,388
4	\$20,000 - \$24,999	1,411	496,944
5	\$25,000 - \$29,999	1,212	400,058
6	\$30,000 - \$34,999	1,259	470,840
7	\$35,000 - \$39,999	1,239	468,385
8	\$40,000 - \$49,999	2,328	901,652
9	\$50,000 - \$59,999	1,975	798,136
10	\$60,000 - \$79,999	2,918	1,240,498
11	\$80,000 or more	2,849	1,290,939
12	Not stated	754	297,805

SOURCE:

HERS questionnaire, question 22 and Survey of Consumer Finances (SCF) 1996.

EXPENDITURES

TOTAL EXPENDITURES FOR ADDITIONS:

Weighted Average

384.37

SOURCE:

HRRS questionnaire, questions ADDN-Q1c and ADDN-Q1d, ADDN-Q2c and ADDN-Q2d, ADDN-Q3c and ADDN-Q3d, ADDN-Q4c and ADDN-Q4d, and ADDN-Q5c and ADDN-Q5d. Total expenditures reported for additions for both work contracted out and materials purchased separately.

EXPENDITURES FOR ADDITIONS - WORK CONTRACTED OUT

Weighted Average

218.21

SOURCE:

HRRS questionnaire, questions ADDN-Q1c, ADDN-Q2c, ADDN-Q3c, ADDN-Q4c and ADDN-Q5c. Expenditures reported for additions - work contracted out.

EXPENDITURES FOR ADDITIONS - MATERIALS PURCHASED SEPARATELY

Weighted Average

166.16

SOURCE:

HRRS questionnaire, questions ADDN-Q1d, ADDN-Q2d, ADDN-Q3d, ADDN-Q4d and ADDN-Q5d. Expenditures reported for additions - materials purchased separately.

EXPENDITURES FOR ADDITION OF GARAGE OR CAR PORT

Weighted Average

64.97

SOURCE:

HRRS questionnaire, questions ADDN-Q1c and ADDN-Q1d. Expenditures reported for the addition of garage or car port for both work contracted out and materials purchased separately.

EXPENDITURES FOR OTHER STRUCTURAL EXTENSIONS (ROOMS, SHEDS, DECKS)

Weighted Average

183.95

SOURCE:

HRRS questionnaire, questions ADDN-Q2c and ADDN-Q2d. Expenditures reported for the addition of other structural extensions for both work contracted out and materials purchased separately.

Type of Structural Extension:**Addition of Bedroom**

Code	Classification	Unweighted	Weighted
1	Yes	69	20,757
2	No or not stated	841	309,113
3	Not applicable	17,706	6,876,574

SOURCE:

HRRS questionnaire, question ADDN-Q2e (1). Addition of other structural extensions - Bedroom.

Addition of Bathroom

Code	Classification	Unweighted	Weighted
1	Yes	46	16,655
2	No or not stated	864	313,215
3	Not applicable	17,706	6,876,574

SOURCE:

HRRS questionnaire, question ADDN-Q2e (2). Addition of other structural extensions - Bathroom.

Addition of Porch, Deck or Balcony

Code	Classification	Unweighted	Weighted
1	Yes	507	181,879
2	No or not stated	403	147,991
3	Not applicable	17,706	6,876,574

SOURCE:

HRRS questionnaire, question ADDN-Q2e (3). Addition of other structural extensions - Porch, Deck or Balcony.

Addition of Greenhouse or Garden Shed

Code	Classification	Unweighted	Weighted
1	Yes	240	86,492
2	No or not stated	670	243,378
3	Not applicable	17,706	6,876,574

SOURCE:

HRRS questionnaire, question ADDN-Q2e (4). Addition of other structural extensions - Greenhouse or Garden Shed.

Addition of Sunroom

Code	Classification	Unweighted	Weighted
1	Yes	33	15,787
2	No or not stated	877	314,083
3	Not applicable	17,706	6,876,574

SOURCE:

HRRS questionnaire, question ADDN-Q2e (5). Addition of other structural extensions - Sunroom.

Addition of Some Other Areas

Code	Classification	Unweighted	Weighted
1	Yes	137	49,426
2	No or not stated	773	280,444
3	Not applicable	17,706	6,876,574

SOURCE:

HRRS questionnaire, question ADDN-Q2e (6). Addition of other structural extensions - Some Other Areas.

EXPENDITURES FOR ADDITION OF AN INGROUND SWIMMING POOL

Weighted Average

15.92

SOURCE:

HRRS questionnaire, questions ADDN-Q3c and ADDN-Q3d. Total expenditures reported for the addition of an ingraind swimming pool for both work contracted out and materials purchased separately.

EXPENDITURES FOR ADDITION OF FENCES, PATIOS OR DRIVEWAYS

Weighted Average

60.64

SOURCE:

HRRS questionnaire, questions ADDN-Q4c and ADDN-Q4d. Total expenditures reported for the addition of fences, patios or driveways for both work contracted out and materials purchased separately.

EXPENDITURES FOR ADDITION OF LANDSCAPING

Weighted Average

58.89

SOURCE:

HRRS questionnaire, questions ADDN-Q5c and ADDN-Q5d. Total expenditures reported for the addition of landscaping for both work contracted out and materials purchased separately.

TOTAL EXPENDITURES FOR RENOVATIONS AND ALTERATIONS:

Weighted Average

576.27

SOURCE:

HRRS questionnaire, questions RENO-Q2c, RENO-Q2d, RENO-Q3c, RENO-Q3d, RENO-Q4c, and RENO-Q4d. Total expenditures reported for renovations and alterations for both work contracted out and materials purchased separately.

EXPENDITURES FOR RENOVATIONS AND ALTERATIONS - WORK CONTRACTED OUT

Weighted Average

330.44

SOURCE:

HRRS questionnaire, questions RENO-Q2c, RENO-Q3c, and RENO-Q4c. Expenditures for renovations and alterations - work contracted out.

EXPENDITURES FOR RENOVATIONS AND ALTERATIONS - MATERIALS PURCHASED SEPARATELY

Weighted Average

245.83

SOURCE:

HRRS questionnaire, questions RENO-Q2d, RENO-Q3d, and RENO-Q4d. Expenditures for renovations and alterations - materials purchased separately.

EXPENDITURES FOR COMBINATION OF INTERIOR AND EXTERIOR WORK DONE

Weighted Average

190.33

SOURCE:

HRRS questionnaire, questions RENO-Q2c and RENO-Q2d. Expenditures reported for renovations and alterations (for both work contracted out and materials purchased separately) involving combination of interior and exterior work. (Examples: a family room renovation that involved installing a fireplace and chimney; moving an interior wall and installing wall-to-wall carpeting)

Type of Interior and Exterior Work:**Renovations and Alterations of Bathroom**

Code	Classification	Unweighted	Weighted
1	Yes	212	84,934
2	No or not stated	651	232,428
3	Not applicable	17,753	6,889,082

SOURCE:

HRRS questionnaire, question RENO-Q2e (1). Combination of interior and exterior renovation and alteration of bathroom.

Renovations and Alterations of Kitchen

Code	Classification	Unweighted	Weighted
1	Yes	245	85,460
2	No or not stated	618	231,902
3	Not applicable	17,753	6,889,082

SOURCE:

HRRS questionnaire, question RENO-Q2e (2). Combination of interior and exterior renovation and alteration of kitchen.

Renovations and Alterations of Basement or Attic

Code	Classification	Unweighted	Weighted
1	Yes	178	65,924
2	No or not stated	685	251,438
3	Not applicable	17,753	6,889,082

SOURCE:

HRRS questionnaire, question RENO-Q2e (3). Combination of interior and exterior renovation and alteration of basement or attic.

Renovations and Alterations of Some Other Areas

Code	Classification	Unweighted	Weighted
1	Yes	632	222,443
2	No or not stated	231	94,919
3	Not applicable	17,753	6,889,082

SOURCE:

HRRS questionnaire, question RENO-Q2e (4). Combination of interior and exterior renovation and alteration of some other areas.

EXTERIOR WORK ONLY - WORK CONTRACTED OUT AND MATERIALS PURCHASED SEPARATELY

Weighted Average

127.33

SOURCE:

HRRS questionnaire, questions RENO-Q3c and RENO-Q3d. Expenditures reported for exterior renovations and alterations only (for both work contracted out and materials purchased separately).

Type of Exterior Work:**Renovations and Alterations of Window**

Code	Classification	Unweighted	Weighted
1	Yes	462	171,685
2	No or not stated	684	257,189
3	Not applicable	17,470	6,777,570

SOURCE:

HRRS questionnaire, question RENO-Q3e (1). Exterior renovation and alteration of window.

Renovations and Alterations of Door

Code	Classification	Unweighted	Weighted
1	Yes	368	137,114
2	No or not stated	778	291,760
3	Not applicable	17,470	6,777,570

SOURCE:

HRRS questionnaire, question RENO-Q3e (2). Exterior renovation and alteration of door.

Renovations and Alterations of Siding

Code	Classification	Unweighted	Weighted
1	Yes	169	48,990
2	No or not stated	977	379,884
3	Not applicable	17,470	6,777,570

SOURCE:

HRRS questionnaire, question RENO-Q3e (3). Exterior renovation and alteration of siding.

Renovations and Alterations of Roof or Eavestroughing

Code	Classification	Unweighted	Weighted
1	Yes	205	75,893
2	No or not stated	941	352,981
3	Not applicable	17,470	6,777,570

SOURCE:

HRRS questionnaire, question RENO-Q3e (4). Exterior renovation and alteration of roof or eavestroughing.

Renovations and Alterations of Porch, Deck or Balcony

Code	Classification	Unweighted	Weighted
1	Yes	143	60,740
2	No or not stated	1,003	368,134
3	Not applicable	17,470	6,777,570

SOURCE:

HRRS questionnaire, question RENO-Q3e (5). Exterior renovation and alteration of porch, deck or balcony.

Renovations and Alterations of Some Other Areas

Code	Classification	Unweighted	Weighted
1	Yes	153	56,358
2	No or not stated	993	372,516
3	Not applicable	17,470	6,777,570

SOURCE:

HRRS questionnaire, question RENO-Q3e (6). Exterior renovation and alteration of some other areas.

INTERIOR WORK ONLY - WORK CONTRACTED OUT AND MATERIALS PURCHASED SEPARATELY

Weighted Average

258.61

SOURCE:

HRRS questionnaire, questions RENO-Q4c and RENO-Q4d. Expenditures reported for interior renovations and alterations only (for both work contracted out and materials purchased separately).

Type of Interior Work:**Renovations and Alterations of Bathroom**

Code	Classification	Unweighted	Weighted
1	Yes	509	205,782
2	No or not stated	1,207	461,334
3	Not applicable	16,900	6,539,328

SOURCE:

HRRS questionnaire, question RENO-Q4e (1). Interior renovation and alteration of bathroom.

Renovations and Alterations of Kitchen

Code	Classification	Unweighted	Weighted
1	Yes	506	200,828
2	No or not stated	1,210	466,288
3	Not applicable	16,900	6,539,328

SOURCE:

HRRS questionnaire, question RENO-Q4e (2). Interior renovation and alteration of kitchen.

Renovations and Alterations of Basement or Attic

Code	Classification	Unweighted	Weighted
1	Yes	502	202,184
2	No or not stated	1,214	464,932
3	Not applicable	16,900	6,539,328

SOURCE:

HRRS questionnaire, question RENO-Q4e (3). Interior renovation and alteration of basement or attic.

Renovations and Alterations of Some Other Areas

Code	Classification	Unweighted	Weighted
1	Yes	690	252,061
2	No or not stated	1,026	415,055
3	Not applicable	16,900	6,539,328

SOURCE:

HRRS questionnaire, question RENO-Q4e (4). Interior renovation and alteration of some other areas.

TOTAL EXPENDITURES FOR REPLACEMENT OF EQUIPMENT:

Weighted Average

170.66

SOURCE:

HRRS questionnaire, questions REPL-Q1d, REPL-Q1e, REPL-Q2d, REPL-Q2e, REPL-Q3d, REPL-Q3e, REPL-Q4d, REPL-Q4e, REPL-Q5d, REPL-Q5e, REPL-Q6d and REPL-Q6e. Total expenditures reported for the replacement of equipment for both work contracted out and materials purchased separately.

EXPENDITURES FOR THE REPLACEMENT OF EQUIPMENT - WORK CONTRACTED OUT

Weighted Average

117.81

SOURCE:

HRRS questionnaire, questions REPL-Q1d, REPL-Q2d, REPL-Q3d, REPL-Q4d, REPL-Q5d and REPL-Q6d. Expenditures for the replacement of equipment - work contracted out.

EXPENDITURES FOR THE REPLACEMENT OF EQUIPMENT - MATERIALS PURCHASED SEPARATELY

Weighted Average

52.86

SOURCE:

HRRS questionnaire, questions REPL-Q1e, REPL-Q2e, REPL-Q3e, REPL-Q4e, REPL-Q5e and REPL-Q6e. Expenditures for the replacement of equipment - materials purchased separately.

PLUMBING FIXTURES - REPLACEMENT

Weighted Average

42.26

SOURCE:

HRRS questionnaire, questions REPL-Q1d and REPL-Q1e. Expenditures for the replacement of plumbing fixtures such as a sink, bathtub, toilet, shower stall, laundry tub, hot water tank or water softener for both work contracted out and materials purchased separately.

HEATING OR AIR CONDITIONING EQUIPMENT - REPLACEMENT

Weighted Average

59.59

SOURCE:

HRRS questionnaire, questions REPL-Q2d and REPL-Q2e. Expenditures for the replacement of heating or air conditioning equipment such as furnace, fireplace, woodstove, central air conditioning, heat pump or air exchanger for both work contracted out and materials purchased separately.

ELECTRICAL FIXTURES OR EQUIPMENT - REPLACEMENT

Weighted Average

10.31

SOURCE:

HRRS questionnaire, questions REPL-Q3d and REPL-Q3e. Expenditures for the replacement of electrical fixtures or equipment such as wiring, security equipment, ceiling fan, built-in ventilation fan, light fixture or garage door opener for both work contracted out and materials purchased separately.

BUILT-IN APPLIANCES - REPLACEMENT

Weighted Average

12.47

SOURCE:

HRRS questionnaire, questions REPL-Q4d and REPL-Q4e. Expenditures for the replacement of built-in appliances such as an oven, dishwasher, central vacuum, rangehood or cook-top unit for both work contracted out and materials purchased separately

WALL-TO-WALL CARPETING - REPLACEMENT

Weighted Average

42.40

SOURCE:

HRRS questionnaire, questions REPL-Q5d and REPL-Q5e. Expenditures for the replacement of wall-to-wall carpeting and underpadding for both work contracted out and materials purchased separately.

OTHER FIXTURES OR BUILT-IN EQUIPMENT - REPLACEMENT

Weighted Average

3.62

SOURCE:

HRRS questionnaire, questions REPL-Q6d and REPL-Q6e. Expenditures for the replacement of other fixtures or built-in appliances for both work contracted out and materials purchased separately.

TOTAL EXPENDITURES FOR NEW INSTALLATION OF EQUIPMENT:

Weighted Average

96.65

SOURCE:

HRRS questionnaire, questions REPL-Q1h, REPL-Q1i, REPL-Q2h, REPL-Q2i, REPL-Q3h, REPL-Q3i, REPL-Q4h, REPL-Q4i, REPL-Q5h, REPL-Q5i, REPL-Q6i and REPL-Q6j. Total expenditures reported for the new installation of equipment for both work contracted out and materials purchased separately.

EXPENDITURES FOR NEW INSTALLATION OF EQUIPMENT - WORK CONTRACTED OUT

Weighted Average

65.61

SOURCE:

HRRS questionnaire, questions REPL-Q1h, REPL-Q2h, REPL-Q3h, REPL-Q4h, REPL-Q5h and REPL-Q6i. Expenditures for the new installation of equipment - work contracted out.

EXPENDITURES FOR NEW INSTALLATION OF EQUIPMENT - MATERIALS PURCHASED SEPARATELY

Weighted Average

31.04

SOURCE:

HRRS questionnaire, questions REPL-Q1i, REPL-Q2i, REPL-Q3i, REPL-Q4i, REPL-Q5i and REPL-Q6j. Expenditures for the new installation of equipment - materials purchased separately.

PLUMBING FIXTURES - NEW INSTALLATION

Weighted Average

16.45

SOURCE:

HRRS questionnaire, questions REPL-Q1h and REPL-Q1i. Expenditures for the new installation of plumbing fixtures for both work contracted out and materials purchased separately.

HEATING OR AIR CONDITIONING EQUIPMENT - NEW INSTALLATION

Weighted Average

48.90

SOURCE:

HRRS questionnaire, questions REPL-Q2h and REPL-Q2i. Expenditures for the new installation of heating or air conditioning equipment for both work contracted out and materials purchased separately.

ELECTRICAL FIXTURES OR EQUIPMENT - NEW INSTALLATION

Weighted Average

12.16

SOURCE:

HRRS questionnaire, questions REPL-Q3h and REPL-Q3i. Expenditures for the new installation of electrical fixtures or equipment for both work contracted out and materials purchased separately.

BUILT-IN APPLIANCES - NEW INSTALLATION

Weighted Average

6.40

SOURCE:

HRRS questionnaire, questions REPL-Q4h and REPL-Q4i. Expenditures for the new installation of built-in appliances for both work contracted out and materials purchased separately.

WALL-TO-WALL CARPETING - NEW INSTALLATION

Weighted Average

11.30

SOURCE:

HRRS questionnaire, questions REPL-Q5h and REPL-Q5i. Expenditures for the new installation of wall-to-wall carpeting and underpadding for both work contracted out and materials purchased separately.

OTHER FIXTURES OR BUILT-IN EQUIPMENT - NEW INSTALLATION

Weighted Average

1.45

SOURCE:

HRRS questionnaire, questions REPL-Q6i and REPL-Q6j. Expenditures for the new installation of other fixtures or built-in equipment for both work contracted out and materials purchased separately.

TOTAL EXPENDITURES FOR REPAIRS AND MAINTENANCE:

Weighted Average

367.98

SOURCE:

HRRS questionnaire, questions REPA-Q1c, REPA-Q1d, REPA-Q2c, REPA-Q2d, REPA-Q3c, REPA-Q3d, REPA-Q4c, REPA-Q4d, REPA-Q5c, REPA-Q5d, REPA-Q6c, REPA-Q6d, REPA-Q7c, REPA-Q7d, REPA-Q8c, REPA-Q8d, REPA-Q9c, REPA-Q9d, REPA-Q10c, REPA-Q10d, REPA-Q11c, REPA-Q11d, REPA-Q12c, REPA-Q12d, REPA-Q13c, REPA-Q13d, REPA-Q14c and REPA-Q14d. Total expenditures reported for repairs and maintenance for both work contracted out and materials purchased separately.

REPAIRS AND MAINTENANCE - WORK CONTRACTED OUT

Weighted Average

226.42

SOURCE:

HRRS questionnaire, questions REPA-Q1c, REPA-Q2c, REPA-Q3c, REPA-Q4c, REPA-Q5c, REPA-Q6c, REPA-Q7c, REPA-Q8c, REPA-Q9c, REPA-Q10c, REPA-Q11c, REPA-Q12c, REPA-Q13c and REPA-Q14c. Expenditures for repairs and maintenance - work contracted out.

REPAIRS AND MAINTENANCE - MATERIALS PURCHASED SEPARATELY

Weighted Average

141.56

SOURCE:

HRRS questionnaire, questions REPA-Q1d, REPA-Q2d, REPA-Q3d, REPA-Q4d, REPA-Q5d, REPA-Q6d, REPA-Q7d, REPA-Q8d, REPA-Q9d, REPA-Q10d, REPA-Q11d, REPA-Q12d, REPA-Q13d and REPA-Q14d. Expenditures for repairs and maintenance - materials purchased separately.

INTERIOR OR EXTERIOR PAINTING

Weighted Average

101.67

SOURCE:

HRRS questionnaire, questions REPA-Q1c and REPA-Q1d. Expenditures for interior or exterior painting for both work contracted out and materials purchased separately.

WALL PAPERING

Weighted Average

14.21

SOURCE:

HRRS questionnaire, questions REPA-Q2c and REPA-Q2d. Expenditures for wall papering for both work contracted out and materials purchased separately.

REPAIRS TO INTERIOR WALLS & CEILINGS

Weighted Average

17.69

SOURCE:

HRRS questionnaire, questions REPA-Q3c and REPA-Q3d. Expenditures for the repair and maintenance of interior walls and ceilings such as plastering, drywall, panelling and tiling for both work contracted out and materials purchased separately.

REPAIRS TO HARD SURFACE FLOORING AND WALL-TO-WALL CARPETING

Weighted Average

18.82

SOURCE:

HRRS questionnaire, questions REPA-Q4c and REPA-Q4d. Expenditures for the repair and maintenance of hard surface flooring and wall-to-wall carpeting for both work contracted out and materials purchased separately.

COMPLETE RE-ROOFING

Weighted Average

86.64

SOURCE:

HRRS questionnaire, questions REPA-Q5c and REPA-Q5d. Expenditures for complete re-roofing for both work contracted out and materials purchased separately.

EAVESTROUGHING AND OTHER ROOF REPAIRS

Weighted Average

18.17

SOURCE:

HRRS questionnaire, questions REPA-Q6c and REPA-Q6d. Expenditures for the repair and maintenance of eavestroughing and other roof repairs for both work contracted out and materials purchased separately.

REPAIRS TO EXTERIOR WALLS

Weighted Average

20.85

SOURCE:

HRRS questionnaire, questions REPA-Q7c and REPA-Q7d. Expenditures for the repairs and maintenance of exterior walls (including soffits, fascia, foundations, and chimneys) for both work contracted out and materials purchased separately.

REPAIRS TO CAULKING AND WEATHERSTRIPPING

Weighted Average

5.37

SOURCE:

HRRS questionnaire, questions REPA-Q8c and REPA-Q8d. Expenditures for the repair and maintenance of caulking and weatherstripping (including the replacement of insulation, vapour barriers, etc.) for both work contracted out and materials purchased separately.

REPAIRS TO OUTDOOR PATIOS, FENCES AND DRIVEWAYS

Weighted Average

28.37

SOURCE:

HRRS questionnaire, questions REPA-Q9c and REPA-Q9d. Expenditures for the repair and maintenance of outdoor patios, fences, and driveways for both work contracted out and materials purchased separately.

REPAIRS TO HEATING AND AIR CONDITIONING SYSTEMS

Weighted Average

12.45

SOURCE:

HRRS questionnaire, questions REPA-Q10c and REPA-Q10d. Expenditures for the repair and maintenance of heating and air conditioning systems for both work contracted out and materials purchased separately.

REPAIRS TO PLUMBING EQUIPMENT

Weighted Average

15.08

SOURCE:

HRRS questionnaire, questions REPA-Q11c and REPA-Q11d. Expenditures for the repair and maintenance of plumbing equipment for both work contracted out and materials purchased separately.

REPAIRS TO ELECTRICAL EQUIPMENT

Weighted Average

3.99

SOURCE:

HRRS questionnaire, questions REPA-Q12c and REPA-Q12d. Expenditures for the repair and maintenance of electrical equipment for both work contracted out and materials purchased separately.

MAINTENANCE AND REPAIRS INVOLVING CARPENTRY (INCLUDE WOODEN FLOORING)

Weighted Average

17.33

SOURCE:

HRRS questionnaire, questions REPA-Q13c and REPA-Q13d. Expenditures for the repair and maintenance of carpentry (including wood flooring) for both work contracted out and materials purchased separately.

OTHER REPAIRS AND MAINTENANCE

Weighted Average

7.33

SOURCE:

HRRS questionnaire, questions REPA-Q14c and REPA-Q14d. Expenditures for the other repairs and maintenance (excludes housekeeping maintenance work such as rug cleaning, window washing, groundskeeping, snow removal, garbage removal, etc.) for both work contracted out and materials purchased separately.

REASONS FOR CONDUCTING REPAIRS AND RENOVATIONS:**Add Value or Make Dwelling More Saleable**

Code	Classification	Unweighted	Weighted
1	Yes	1,210	453,649
2	No or not stated	11,386	4,352,174
3	Not applicable	6,020	2,400,621

SOURCE:

HRRS questionnaire, question HRRS-Q3(1). Reason for conducting repairs and renovations.

Provide More Space or Add a Room

Code	Classification	Unweighted	Weighted
1	Yes	760	288,219
2	No or not stated	11,836	4,517,604
3	Not applicable	6,020	2,400,621

SOURCE:

HRRS questionnaire, question HRRS-Q3(2). Reason for conducting repairs and renovations.

Regular Maintenance or Repair a Broken Item

Code	Classification	Unweighted	Weighted
1	Yes	8,208	3,117,651
2	No or not stated	4,388	1,688,172
3	Not applicable	6,020	2,400,621

SOURCE:

HRRS questionnaire, question HRRS-Q3(3). Reason for conducting repairs and renovations.

Make Home More Attractive or Modern

Code	Classification	Unweighted	Weighted
1	Yes	4,543	1,765,405
2	No or not stated	8,053	3,040,418
3	Not applicable	6,020	2,400,621

SOURCE:

HRRS questionnaire, question HRRS-Q3(4). Reason for conducting repairs and renovations.

Make Home More Energy Efficient

Code	Classification	Unweighted	Weighted
1	Yes	1,345	486,749
2	No or not stated	11,251	4,319,074
3	Not applicable	6,020	2,400,621

SOURCE:

HRRS questionnaire, question HRRS-Q3(5). Reason for conducting repairs and renovations.

Create or Modify a Rental Unit

Code	Classification	Unweighted	Weighted
1	Yes	26	12,215
2	No or not stated	12,570	4,793,608
3	Not applicable	6,020	2,400,621

SOURCE:

HRRS questionnaire, question HRRS-Q3(6). Reason for conducting repairs and renovations.

Create or Modify an Office for Working at Home

Code	Classification	Unweighted	Weighted
1	Yes	35	11,516
2	No or not stated	12,561	4,794,307
3	Not applicable	6,020	2,400,621

SOURCE:

HRRS questionnaire, question HRRS-Q3(7). Reason for conducting repairs and renovations.

Other Reasons for Conducting Repairs and Renovations

Code	Classification	Unweighted	Weighted
1	Yes	590	216,705
2	No or not stated	12,006	4,589,118
3	Not applicable	6,020	2,400,621

SOURCE:

HRRS questionnaire, question HRRS-Q3(8). Reason for conducting repairs and renovations.

USED TECHNICAL INFORMATION FOR PLANNING REPAIRS AND RENOVATIONS

Code	Classification	Unweighted	Weighted
1	Yes	1,600	663,702
2	No	10,970	4,128,043
3	Not stated	26	14,078
4	Not applicable	6,020	2,400,621

SOURCE:

HRRS questionnaire, question HRRS-Q4. Used technical information for planning repairs and renovations.

Consulted Books, Magazines or Videos

Code	Classification	Unweighted	Weighted
1	Yes	657	270,128
2	No or not stated	11,939	4,535,695
3	Not applicable	6,020	2,400,621

SOURCE:

HRRS questionnaire, question HRRS-Q4(1). Source of information to help planning for repairs and renovations.

Followed Instructions from Item

Code	Classification	Unweighted	Weighted
1	Yes	134	58,596
2	No or not stated	12,462	4,747,227
3	Not applicable	6,020	2,400,621

SOURCE:

HRRS questionnaire, question HRRS-Q4(2). Source of information to help planning for repairs and renovations.

Sought Advice from Friends or Neighbours

Code	Classification	Unweighted	Weighted
1	Yes	318	122,456
2	No or not stated	12,278	4,683,367
3	Not applicable	6,020	2,400,621

SOURCE:

HRRS questionnaire, question HRRS-Q4(3). Source of information to help planning for repairs and renovations.

Sought Advice from Building Supply Store

Code	Classification	Unweighted	Weighted
1	Yes	499	213,513
2	No or not stated	12,097	4,592,310
3	Not applicable	6,020	2,400,621

SOURCE:

HRRS questionnaire, question HRRS-Q4(4). Source of information to help planning for repairs and renovations.

Sought Advice from Contractor or Home Builders Associations

Code	Classification	Unweighted	Weighted
1	Yes	595	238,343
2	No or not stated	12,001	4,567,480
3	Not applicable	6,020	2,400,621

SOURCE:

HRRS questionnaire, question HRRS-Q4(5). Source of information to help planning for repairs and renovations.

Sought Advice from Canada Mortgage and Housing Corporation

Code	Classification	Unweighted	Weighted
1	Yes	16	5,515
2	No or not stated	12,580	4,800,308
3	Not applicable	6,020	2,400,621

SOURCE:

HRRS questionnaire, question HRRS-Q4(6). Source of information to help planning for repairs and renovations.

Sought Advice from Other Sources

Code	Classification	Unweighted	Weighted
1	Yes	128	52,701
2	No or not stated	12,468	4,753,122
3	Not applicable	6,020	2,400,621

SOURCE:

HRRS questionnaire, question HRRS-Q4(7). Source of information to help planning for repairs and renovations.

MONEY BORROWED FOR REPAIRS AND RENOVATIONS:

Code	Classification	Unweighted	Weighted
1	Yes	633	222,840
2	No	11,915	4,557,826
3	Not stated	48	25,157
4	Not applicable	6,020	2,400,621

SOURCE:

HRRS questionnaire, question HRRS-Q5. Money borrowed to pay for your repairs and renovations (excluding credit cards).

Amount of Money Borrowed to Pay for Repairs and Renovations

Weighted Average

245.69

SOURCE:

HRRS questionnaire, question HRRS-Q5a. Amount of money borrowed to pay for repairs and renovations (excluding credit cards).

REASONS FOR NOT USING A CONTRACTOR FOR REPAIRS AND RENOVATIONS:**Too Expensive or Cannot Afford it**

Code	Classification	Unweighted	Weighted
1	Yes	2,036	722,548
2	No or not stated	8,419	3,186,364
3	Not applicable	8,161	3,297,532

SOURCE:

HRRS questionnaire, question HRRS-Q6(1). Reasons for not using a contractor for repairs and renovations.

Could Not Get a Contractor to Make a Proposal

Code	Classification	Unweighted	Weighted
1	Yes	4	1,199
2	No or not stated	10,451	3,907,713
3	Not applicable	8,161	3,297,532

SOURCE:

HRRS questionnaire, question HRRS-Q6(2). Reasons for not using a contractor for repairs and renovations.

Did not Like the Proposal from Contractor

Code	Classification	Unweighted	Weighted
1	Yes	5	1,299
2	No or not stated	10,450	3,907,613
3	Not applicable	8,161	3,297,532

SOURCE:

HRRS questionnaire, question HRRS-Q6(3). Reasons for not using a contractor for repairs and renovations.

Did not Have Enough Confidence in Contractor

Code	Classification	Unweighted	Weighted
1	Yes	33	17,040
2	No or not stated	10,422	3,891,872
3	Not applicable	8,161	3,297,532

SOURCE:

HRRS questionnaire, question HRRS-Q6(4). Reasons for not using a contractor for repairs and renovations.

Enjoy Doing this Type of Work

Code	Classification	Unweighted	Weighted
1	Yes	3,244	1,237,496
2	No or not stated	7,211	2,671,416
3	Not applicable	8,161	3,297,532

SOURCE:

HRRS questionnaire, question HRRS-Q6(5). Reasons for not using a contractor for repairs and renovations.

Availability of Free Labour

Code	Classification	Unweighted	Weighted
1	Yes	1,563	554,984
2	No or not stated	8,892	3,353,928
3	Not applicable	8,161	3,297,532

SOURCE:

HRRS questionnaire, question HRRS-Q6(6). Reasons for not using a contractor for repairs and renovations.

Other Reasons for not Using a Contractor for Repairs and Renovations

Code	Classification	Unweighted	Weighted
1	Yes	208	98,081
2	No or not stated	10,247	3,810,831
3	Not applicable	8,161	3,297,532

SOURCE:

HRRS questionnaire, question HRRS-Q6(7). Reasons for not using a contractor for repairs and renovations.

HOME ENERGY RETROFIT DATA

INSULATION:

IMPROVEMENTS TO INSULATION:

Code	Classification	Unweighted	Weighted
1	Yes	766	292,328
2	No	17,847	6,913,421
3	Not stated	3	695

SOURCE:

HERS questionnaire, question 1. Improvements to dwelling insulation.

WALL INSULATION (EXCLUDING BASEMENT)

Code	Classification	Unweighted	Weighted
1	Yes	278	92,550
2	No or not stated	488	199,778
3	Not applicable	17,850	6,914,116

SOURCE:

HERS questionnaire, question 2(1). Improvements to wall insulation (excluding basement walls).

WHERE WAS WALL INSULATION ADDED

Code	Classification	Unweighted	Weighted
1	Outside	79	20,466
2	Inside	178	63,918
3	Both	20	7,904
4	Not stated	1	262
5	Not applicable	18,338	7,113,894

SOURCE:

HERS questionnaire, question 3. Location of wall insulation.

BASEMENT WALLS INSULATION

Code	Classification	Unweighted	Weighted
1	Yes	234	89,133
2	No	532	203,195
3	Not applicable or not stated	17,850	6,914,116

SOURCE:

HERS questionnaire, question 2(2). Improvements to basement walls insulation.

WHERE WAS BASEMENT WALLS INSULATION ADDED

Code	Classification	Unweighted	Weighted
1	Outside	21	7,775
2	Inside	209	79,960
3	Both	4	1,398
4	Not stated	0	0
5	Not applicable	18,382	7,117,311

SOURCE:

HERS questionnaire, question 4. Location of basement walls insulation.

REPLACEMENT OR UPGRADE OF EXISTING BASEMENT WALL INSULATION

Code	Classification	Unweighted	Weighted
1	Yes	59	23,597
2	No or not stated or not applicable	18,557	7,182,847

SOURCE:

HERS questionnaire, question 4a(1). Replacement or upgrade of existing basement wall insulation.

NEW INSTALLATION (TO WALL SPACE NOT PREVIOUSLY INSULATED)

Code	Classification	Unweighted	Weighted
1	Yes	162	59,713
2	No or not stated or not applicable	18,454	7,146,731

SOURCE:

HERS questionnaire, question 4a(2). New installation of insulation to basement walls not previously insulated.

HEATED BASEMENT IN 1995

Code	Classification	Unweighted	Weighted
1	Yes	12,892	5,130,005
2	No	1,956	590,371
3	Not stated	5	2,646
4	No basement	3,763	1,483,422

SOURCE:

HERS questionnaire, question 5a. Basement heated in 1995.

HEATED BASEMENT BEFORE 1995

Code	Classification	Unweighted	Weighted
1	Yes (basement was heated before 1995)	13,920	5,352,216
2	No (was a new heated space in 1995)	928	367,724
3	Not stated	5	3,082
4	No basement	3,763	1,483,422

SOURCE:

HERS questionnaire, question 5b. Basement heated before 1995 (example: in 1993).

VERY LITTLE OR NO INSULATION IN WALLS

Code	Classification	Unweighted	Weighted
1	Yes	4,160	1,384,538
2	No or not stated	10,693	4,338,484
3	Not applicable	3,763	1,483,422

SOURCE:

HERS questionnaire, question 6(1). Description of existing insulation in interior basement walls.

INSULATION OF TOP HALF OF WALLS ONLY

Code	Classification	Unweighted	Weighted
1	Yes	2,464	1,038,208
2	No or not stated	12,389	4,684,814
3	Not applicable	3,763	1,483,422

SOURCE:

HERS questionnaire, question 6(2). Description of existing insulation in interior basement walls.

INSULATION FROM CEILING TO FLOOR

Code	Classification	Unweighted	Weighted
1	Yes	8,072	3,200,485
2	No or not stated	6,781	2,522,537
3	Not applicable	3,763	1,483,422

SOURCE:

HERS questionnaire, question 6(3). Description of existing insulation in interior basement walls.

ROOF OR ATTIC INSULATION

Code	Classification	Unweighted	Weighted
1	Yes	205	76,232
2	No or not stated	561	216,096
3	Not applicable	17,850	6,914,116

SOURCE:

HERS questionnaire, question 2(3). Improvements to roof or attic insulation.

BASEMENT FLOORS INSULATION (EXCLUDING CARPETING)

Code	Classification	Unweighted	Weighted
1	Yes	35	11,533
2	No or not stated	731	280,795
3	Not applicable	17,850	6,914,116

SOURCE:

HERS questionnaire, question 2(4). Improvements to basement floors insulation.

GARAGE INSULATION

Code	Classification	Unweighted	Weighted
1	Yes	44	20,787
2	No or not stated	722	271,541
3	Not applicable	17,850	6,914,116

SOURCE:

HERS questionnaire, question 2(5). Improvements to garage insulation.

OTHER AREAS INSULATED

Code	Classification	Unweighted	Weighted
1	Yes	144	66,421
2	No or not stated	622	225,907
3	Not applicable	17,850	6,914,116

SOURCE:

HERS questionnaire, question 2(6). Improvements to insulation of other areas.

WINDOWS:

IMPROVEMENTS TO WINDOWS

Code	Classification	Unweighted	Weighted
1	Yes	1,301	474,648
2	No	17,312	6,729,998
3	Not stated	3	1,798

SOURCE:

HERS questionnaire, question 7. Improvements to windows.

NUMBER OF WINDOWS UPGRADED FROM SINGLE TO DOUBLE PANE

Code	Classification	Unweighted	Weighted
1	All	91	37,771
2	Most	47	18,473
3	Half	48	18,403
4	Less than half	130	44,916
5	One window	85	27,501
6	Not stated	0	0
7	Not applicable	18,215	7,059,380

SOURCE:

HERS questionnaire, question 7b. Windows upgraded from single to double pane.

NUMBER OF WINDOWS UPGRADED FROM DOUBLE TO TRIPLE PANE

Code	Classification	Unweighted	Weighted
1	All	34	9,954
2	Most	11	5,695
3	Half	19	6,093
4	Less than half	50	16,750
5	One window	38	13,635
6	Not stated	0	0
7	Not applicable	18,464	7,154,317

SOURCE:

HERS questionnaire, question 7c. Windows upgraded from double to triple pane.

NUMBER OF WINDOWS UPGRADED WITH SAME NUMBER OF PANES

Code	Classification	Unweighted	Weighted
1	All	88	31,688
2	Most	37	12,033
3	Half	40	14,705
4	Less than half	103	34,896
5	One window	120	38,382
6	Not stated	0	0
7	Not applicable	18,228	7,074,740

SOURCE:

HERS questionnaire, question 7d. Windows upgraded with same number of panes.

NUMBER OF WINDOWS UPGRADED WITH CAULKING OR WEATHERSTRIPPING

Code	Classification	Unweighted	Weighted
1	All	151	65,718
2	Most	68	25,857
3	Half	52	20,147
4	Less than half	110	42,511
5	One window	39	13,160
6	Not stated	2	478
7	Not applicable	18,194	7,038,573

SOURCE:

HERS questionnaire, question 7e. Windows upgraded with caulking or weatherstripping.

NUMBER OF STORM WINDOWS ADDED TO SINGLE PANE WINDOWS

Code	Classification	Unweighted	Weighted
1	All	10	4,446
2	Most	5	1,682
3	Half	6	2,827
4	Less than half	13	4,642
5	One window	12	3,531
6	Not stated	0	0
7	Not applicable	18,570	7,189,316

SOURCE:

HERS questionnaire, question 7f. Addition of storm windows to single pane windows.

OTHER TYPE OF IMPROVEMENTS TO WINDOWS

Code	Classification	Unweighted	Weighted
1	Yes	139	55,987
2	No or not stated or Not applicable	18,477	7,150,457

SOURCE:

HERS questionnaire, question 7a(6). Other type of improvements to windows.

DOORS:**IMPROVEMENTS TO EXTERIOR DOORS**

Code	Classification	Unweighted	Weighted
1	Yes	1,043	383,497
2	No	17,572	6,821,577
3	Not stated	1	1,370

SOURCE:

HERS questionnaire, question 8. Improvements to exterior doors.

NUMBER OF DOORS UPGRADED FROM WOOD TO METAL

Code	Classification	Unweighted	Weighted
1	All	97	32,272
2	One door	337	115,933
3	Other	59	19,376
4	Not stated	0	0
5	Not applicable	18,123	7,038,863

SOURCE:

HERS questionnaire, question 8b. Doors upgraded from wood to metal.

UPGRADES FROM/TO ANY OTHER TYPE OF DOOR

Code	Classification	Unweighted	Weighted
1	Yes	151	59,883
2	No	892	323,614
3	Not applicable	17,573	6,822,947

SOURCE:

HERS questionnaire, question 8a(2). Description of improvements made to exterior doors.

NUMBER OF STORM DOORS ADDED TO EXTERIOR DOORS

Code	Classification	Unweighted	Weighted
1	All	41	13,337
2	One door	117	43,047
3	Other	14	4,888
4	Not stated	0	0
5	Not applicable	18,444	7,145,172

SOURCE:

HERS questionnaire, question 8c. Addition of storm doors to exterior doors.

NUMBER OF DOORS UPGRADED WITH CAULKING OR WEATHERSTRIPPING

Code	Classification	Unweighted	Weighted
1	All	107	44,396
2	One door	89	33,021
3	Other	26	9,019
4	Not stated	0	0
5	Not applicable	18,394	7,120,008

SOURCE:

HERS questionnaire, question 8d. Doors upgraded with caulking or weatherstripping.

OTHER TYPE OF IMPROVEMENTS TO EXTERIOR DOORS

Code	Classification	Unweighted	Weighted
1	Yes	105	43,483
2	No or not stated	938	340,014
3	Not applicable	17,573	6,822,947

SOURCE:

HERS questionnaire, question 8a(5). Description of improvements made to exterior doors.

HEATING AND VENTILATION SYSTEMS INFORMATION:***INSTALLATION OR UPGRADES OF ANY MECHANICAL VENTILATION SYSTEMS***

Code	Classification	Unweighted	Weighted
1	Yes	172	63,572
2	No	18,439	7,139,872
3	Not stated	5	3,000

SOURCE:

HERS questionnaire, question 9. Installation of a central ventilation system.

INSTALLATION OF A CENTRAL VENTILATION SYSTEM (AIR EXCHANGER)

Code	Classification	Unweighted	Weighted
1	Yes	56	19,510
2	No	116	44,062
3	Not applicable	18,444	7,142,872

SOURCE:

HERS questionnaire, question 9a(1). Description of mechanical ventilation systems installed or upgraded.

HEAT RECOVERY

Code	Classification	Unweighted	Weighted
1	Yes	34	12,031
2	No	20	6,510
3	Not stated	2	969
4	Not applicable	18,560	7,186,934

SOURCE:

HERS questionnaire, question 9b. Central ventilation system installed have heat recovery.

INSTALLATION OF EXHAUST FANS (SUCH AS BATHROOM FANS)

Code	Classification	Unweighted	Weighted
1	Yes	49	18,636
2	No	123	44,936
3	Not applicable	18,444	7,142,872

SOURCE:

HERS questionnaire, question 9a(2). Description of mechanical ventilation systems installed or upgraded.

UPGRADED OR FIXED EXISTING EXHAUST FANS

Code	Classification	Unweighted	Weighted
1	Yes	27	10,248
2	No	145	53,324
3	Not applicable	18,444	7,142,872

SOURCE:

HERS questionnaire, question 9a(3). Description of mechanical ventilation systems installed or upgraded.

OTHER INSTALLATION OR UPGRADES TO MECHANICAL VENTILATION SYSTEMS

Code	Classification	Unweighted	Weighted
1	Yes	48	17,748
2	No	124	45,824
3	Not applicable	18,444	7,142,872

SOURCE:

HERS questionnaire, question 9a(4). Description of mechanical ventilation systems installed or upgraded.

PRINCIPAL HEATING SYSTEM (CURRENT)

Code	Classification	Unweighted	Weighted
1	Steam or hot water boiler (furnace)	1,640	575,934
2	Forced hot air furnace	11,210	4,527,492
3	Other type of hot air furnace	364	148,047
4	Electric baseboard or heat pumps	4,270	1,618,312
5	Cookstove or heating stove	926	260,864
6	Other type of current heating system	125	44,093
7	Not stated	81	31,702

SOURCE:

HERS questionnaire, question 10. Current principal heating system and HFE 1996.

PRINCIPAL HEATING SYSTEM (PREVIOUS)

Code	Classification	Unweighted	Weighted
1	Steam or hot water boiler (furnace)	12	3,084
2	Forced hot air furnace	28	10,064
3	Other type of hot air furnace	24	7,941
4	Electric baseboard or heat pumps	67	25,323
5	Cookstove or heating stove	25	7,143
6	Other type of previous heating system	25	9,815
7	Not stated	1	38
8	Not applicable	18,434	7,143,036

SOURCE:

HERS questionnaire, question 10b. Previous principal heating system.

CURRENT FUEL OR ENERGY SOURCE

OIL (CURRENT FUEL OR ENERGY SOURCE)

Code	Classification	Unweighted	Weighted
1	Yes	3,826	1,154,134
2	No or not stated	14,725	6,027,134
3	Not applicable	65	25,176

SOURCE:

HERS questionnaire, question 11(6). Heating fuel or energy source used by the current principal heating system and HFE 1996.

NATURAL GAS (CURRENT FUEL OR ENERGY SOURCE)

Code	Classification	Unweighted	Weighted
1	Yes	7,708	3,577,282
2	No or not stated	10,843	3,603,986
3	Not applicable	65	25,176

SOURCE:

HERS questionnaire, question 11(5). Heating fuel or energy source used by the current principal heating system and HFE 1996.

PROPANE (CURRENT FUEL OR ENERGY SOURCE)

Code	Classification	Unweighted	Weighted
1	Yes	232	75,710
2	No or not stated	18,319	7,105,558
3	Not applicable	65	25,176

SOURCE:

HERS questionnaire, question 11(4). Heating fuel or energy source used by the current principal heating system and HFE 1996.

ELECTRICITY (CURRENT FUEL OR ENERGY SOURCE)

Code	Classification	Unweighted	Weighted
1	Yes	5,302	2,006,320
2	No or not stated	13,249	5,174,948
3	Not applicable	65	25,176

SOURCE:

HERS questionnaire, question 11(1). Heating fuel or energy source used by the current principal heating system and HFE 1996.

WOOD (CURRENT FUEL OR ENERGY SOURCE)

Code	Classification	Unweighted	Weighted
1	Yes	1,741	434,967
2	No or not stated	16,810	6,746,301
3	Not applicable	65	25,176

SOURCE:

HERS questionnaire, question 11(3). Heating fuel or energy source used by the current principal heating system and HFE 1996.

OTHER SOURCE (CURRENT FUEL OR ENERGY SOURCE)

Code	Classification	Unweighted	Weighted
1	Yes	62	18,807
2	No or not stated	18,489	7,162,461
3	Not applicable	65	25,176

SOURCE:

HERS questionnaire, question 11(2) and (7). Heating fuel or energy source used by the current principal heating system and HFE 1996.

CURRENT SYSTEM IS BI-ENERGY

Code	Classification	Unweighted	Weighted
1	Yes	153	43,064
2	No	174	48,415
3	Not stated	1	283
4	Not applicable	18,288	7,114,682

SOURCE:

HERS questionnaire, question 11a. Current heating system is a bi-energy.

PREVIOUS FUEL OR ENERGY SOURCE***ELECTRICITY (PREVIOUS FUEL OR ENERGY SOURCE)***

Code	Classification	Unweighted	Weighted
1	Yes	83	29,283
2	No or not stated	103	35,437
3	Not applicable	18,430	7,141,724

SOURCE:

HERS questionnaire, question 11c(1). Heating fuel or energy source used by the previous principal heating system.

WOOD (PREVIOUS FUEL OR ENERGY SOURCE)

Code	Classification	Unweighted	Weighted
1	Yes	45	12,966
2	No or not stated	141	51,754
3	Not applicable	18,430	7,141,724

SOURCE:

HERS questionnaire, question 11c(3). Heating fuel or energy source used by the previous principal heating system.

PROPANE (PREVIOUS FUEL OR ENERGY SOURCE)

Code	Classification	Unweighted	Weighted
1	Yes	11	3,430
2	No or not stated	175	61,290
3	Not applicable	18,430	7,141,724

SOURCE:

HERS questionnaire, question 11c(4). Heating fuel or energy source used by the previous principal heating system.

NATURAL GAS (PREVIOUS FUEL OR ENERGY SOURCE)

Code	Classification	Unweighted	Weighted
1	Yes	4	1,479
2	No or not stated	182	63,241
3	Not applicable	18,430	7,141,724

SOURCE:

HERS questionnaire, question 11c(5). Heating fuel or energy source used by the previous principal heating system.

OIL (PREVIOUS FUEL OR ENERGY SOURCE)

Code	Classification	Unweighted	Weighted
1	Yes	51	21,351
2	No or not stated	135	43,369
3	Not applicable	18,430	7,141,724

SOURCE:

HERS questionnaire, question 11c(6). Heating fuel or energy source used by the previous principal heating system.

OTHER SOURCE (PREVIOUS FUEL OR ENERGY SOURCE)

Code	Classification	Unweighted	Weighted
1	Yes	7	1,870
2	No or not stated	179	62,850
3	Not applicable	18,430	7,141,724

SOURCE:

HERS questionnaire, question 11c(2) and (7). Heating fuel or energy source used by the previous principal heating system.

PREVIOUS SYSTEM WAS BI-ENERGY

Code	Classification	Unweighted	Weighted
1	Yes	9	3,790
2	No	7	2,023
3	Not stated	0	0
4	Not applicable	18,600	7,200,631

SOURCE:

HERS questionnaire, question 11d. Previous heating system was a bi-energy system.

REPLACEMENTS OR UPGRADES MADE TO PRINCIPAL HEATING EQUIPMENT

Code	Classification	Unweighted	Weighted
1	Yes	564	209,627
2	No	18,045	6,993,035
3	Not stated	7	3,782

SOURCE:

HERS questionnaire, question 12. Replacements or upgrades made to the heating equipment.

REPLACEMENT OF BURNER

Code	Classification	Unweighted	Weighted
1	Yes	32	12,739
2	No or not stated	532	196,888
3	Not applicable	18,052	6,996,817

SOURCE:

HERS questionnaire, question 12a (1). Replacement of burner of heating equipment that was used as the principal heating system.

INSTALLATION OF A NEW FURNACE OR BOILER

Code	Classification	Unweighted	Weighted
1	Yes	263	96,161
2	No or not stated	301	113,466
3	Not applicable	18,052	6,996,817

SOURCE:

HERS questionnaire, question 12a (2). Installation of a new furnace or boiler.

INSTALLED MID OR HIGH EFFICIENCY GAS FURNACE OR BOILER

Code	Classification	Unweighted	Weighted
1	Yes	156	64,940
2	No	100	29,271
3	Not stated	7	1,950
4	Not applicable	18,353	7,110,283

SOURCE:

HERS questionnaire, question 12b. New installation of mid or high efficiency gas furnace or boiler.

ADDITION (NOT REPLACEMENT) OF ELECTRIC BASEBOARD HEATERS

Code	Classification	Unweighted	Weighted
1	Yes	34	12,225
2	No or not stated	530	197,402
3	Not applicable	18,052	6,996,817

SOURCE:

HERS questionnaire, question 12a (3). Addition (not replacement) of electric baseboard heaters.

OTHER UPGRADES OR REPLACEMENTS TO PRINCIPAL HEATING SYSTEM

Code	Classification	Unweighted	Weighted
1	Yes	244	92,341
2	No or not stated	320	117,286
3	Not applicable	18,052	6,996,817

SOURCE:

HERS questionnaire, question 12a (4). Other upgrades or replacements to principal heating system.

CURRENT TYPE OF PRINCIPAL TAP WATER HEATING SYSTEM

Code	Classification	Unweighted	Weighted
1	Standard water heater	7,928	3,538,921
2	High-efficiency water heater	970	416,718
3	Combined water heating system	271	65,164
4	Oil-fired water heater	1,030	266,972
5	Electricity water heater	7,957	2,746,368
6	Other	269	90,916
7	Propane water heater	73	19,009
8	Wood burning water heater	21	5,176
9	Not stated	97	57,200

SOURCE:

HERS questionnaire, question 13. Principal tap water heating system currently used.

Note: Codes 7 and 8 were added to the database using notes after the survey was completed.

PREVIOUS TYPE OF PRINCIPAL TAP WATER HEATING SYSTEM

Code	Classification	Unweighted	Weighted
1	Standard water heater	126	54,723
2	High-efficiency water heater	16	6,634
3	Combined water heating system	4	1,504
4	Oil-fired water heater	20	8,149
5	Electricity water heater	206	71,236
6	Other	6	1,509
7	Propane water heater	1	60
8	Wood burning water heater	0	0
9	Not stated	0	0
10	Not applicable	18,237	7,062,629

SOURCE:

HERS questionnaire, question 13b. Principal tap water heating system previously used.

Note: Codes 7 and 8 were added to the database using notes after the survey was completed.

FEATURES ADDED TO REDUCE ENERGY CONSUMPTION:

ADDITION OF HEAT PUMP

Code	Classification	Unweighted	Weighted
1	Yes	42	19,279
2	No	18,561	7,179,566
3	Not stated	13	7,599

SOURCE:

HERS questionnaire, question 14. Addition of a heat pump.

ENERGY SAVING FEATURES ADDED

Code	Classification	Unweighted	Weighted
1	Yes	3,458	1,390,891
2	No or not stated	15,158	5,815,553

SOURCE:

HERS questionnaire, question 15. Addition of energy saving features.

PROGRAMMABLE THERMOSTAT

Code	Classification	Unweighted	Weighted
1	Yes	737	335,132
2	No or not stated	2,721	1,055,759
3	Not applicable	15,158	5,815,553

SOURCE:

HERS questionnaire, question 15 (1). Addition of a programmable thermostat.

INSULATION BLANKET AROUND OUTSIDE OF HOT WATER TANK

Code	Classification	Unweighted	Weighted
1	Yes	422	184,771
2	No or not stated	3,036	1,206,120
3	Not applicable	15,158	5,815,553

SOURCE:

HERS questionnaire, question 15 (2). Addition of an insulation blanket around outside of hot water tank.

INSULATION AROUND HOT WATER SYSTEM PIPES

Code	Classification	Unweighted	Weighted
1	Yes	586	217,219
2	No or not stated	2,872	1,173,672
3	Not applicable	15,158	5,815,553

SOURCE:

HERS questionnaire, question 15 (3). Addition of insulation around hot water system pipes.

INSULATION AROUND THE HOT AIR DUCTS FROM THE FURNACE AND/OR SEALING OF LEAKY DUCTWORK

Code	Classification	Unweighted	Weighted
1	Yes	167	69,093
2	No or not stated	3,291	1,321,798
3	Not applicable	15,158	5,815,553

SOURCE:

HERS questionnaire, question 15 (4). Addition of insulation around the hot air ducts from the furnace and/or sealing of leaky ductwork.

LOW FLOW SHOWER HEADS

Code	Classification	Unweighted	Weighted
1	Yes	1,726	696,837
2	No or not stated	1,732	694,054
3	Not applicable	15,158	5,815,553

SOURCE:

HERS questionnaire, question 15 (5). Addition of low flow shower heads.

ATTACHMENT OF AERATORS TO HOT WATER FAUCETS

Code	Classification	Unweighted	Weighted
1	Yes	591	254,156
2	No or not stated	2,867	1,136,735
3	Not applicable	15,158	5,815,553

SOURCE:

HERS questionnaire, question 15 (6). Attachment of aerators to hot water faucets (to reduce water flow).

FLUORESCENT LIGHTS TO REPLACE CONVENTIONAL LIGHT BULBS

Code	Classification	Unweighted	Weighted
1	Yes	1,056	419,524
2	No or not stated	2,402	971,367
3	Not applicable	15,158	5,815,553

SOURCE:

HERS questionnaire, question 15 (7). Replacement of conventional light bulbs with fluorescent lights.

OTHER ENERGY SAVING FEATURES ADDED

Code	Classification	Unweighted	Weighted
1	Yes	187	76,424
2	No or not stated	3,271	1,314,467
3	Not applicable	15,158	5,815,553

SOURCE:

HERS questionnaire, question 15 (8). Other energy saving features added.

FLOOR SPACE INFORMATION:

FLOOR SPACE ADDED TO DWELLING

Code	Classification	Unweighted	Weighted
1	Yes	183	72,212
2	No	18,429	7,131,556
3	Not stated	4	2,676

SOURCE:

HERS questionnaire, question 17. Structural extensions or renovations made to the dwelling which added to the heated floor space (includes additions of any heated rooms, solariums or sunrooms).

SIZE OF FLOOR SPACE ADDED

Weighted Average

2.89

SOURCE:

HERS questionnaire, question 17a. Size of floor space added.

UNIT OF MEASURE FOR ADDED FLOOR SPACE

Code	Classification	Unweighted	Weighted
1	Square feet	126	53,334
2	Square meters	57	18,878
3	Number of heated rooms	0	0
4	Other units	0	0
5	Not stated	0	0
6	Not applicable	18,433	7,134,232

SOURCE:

HERS questionnaire, question 17b. Unit of measure for added floor space.

FIREPLACE INFORMATION:

ADDITION OF FIREPLACE

Code	Classification	Unweighted	Weighted
1	Yes	323	141,622
2	No	18,288	7,062,177
3	Not stated	5	2,645

SOURCE:

HERS questionnaire, question 18. Addition of fireplace.

WOOD BURNING FIREPLACE:

ADDITION OF WOOD BURNING FIREPLACE

Code	Classification	Unweighted	Weighted
1	Yes	192	84,329
2	No or not stated	131	57,293
3	Not applicable	18,293	7,064,822

SOURCE:

HERS questionnaire, question 18a(1). Addition of a wood burning fireplace.

FEATURES OF A WOOD BURNING FIREPLACE:

Masonry (Brick) Fireplace

Code	Classification	Unweighted	Weighted
1	Yes	123	52,756
2	No or not stated	200	88,866
3	Not applicable	18,293	7,064,822

SOURCE:

HERS questionnaire, question 18b (1). Addition of a masonry (brick) fireplace.

Prefab Metal Fireplace

Code	Classification	Unweighted	Weighted
1	Yes	46	19,075
2	No or not stated	277	122,547
3	Not applicable	18,293	7,064,822

SOURCE:

HERS questionnaire, question 18b (2). Addition of a prefab metal fireplace.

Fireplace Equipped With Glass Doors

Code	Classification	Unweighted	Weighted
1	Yes	48	22,568
2	No or not stated	275	119,054
3	Not applicable	18,293	7,064,822

SOURCE:

HERS questionnaire, question 18b (3). Addition of a fireplace equipped with glass doors.

Advanced Combustion, High-Efficiency Fireplace

Code	Classification	Unweighted	Weighted
1	Yes	22	10,134
2	No or not stated	301	131,488
3	Not applicable	18,293	7,064,822

SOURCE:

HERS questionnaire, question 18b (4). Addition of an advanced combustion, high-efficiency fireplace

GAS OR PROPANE BURNING FIREPLACE:

ADDITION OF A GAS OR PROPANE BURNING FIREPLACE

Code	Classification	Unweighted	Weighted
1	Yes	131	57,293
2	No or not stated	192	84,329
3	Not applicable	18,293	7,064,822

SOURCE:

HERS questionnaire, question 18a(2). Addition of a gas or propane burning fireplace.

FEATURES OF A GAS OR PROPANE BURNING FIREPLACE:

Gas Log Set in Existing Fireplace

Code	Classification	Unweighted	Weighted
1	Yes	24	10,805
2	No or not stated	299	130,817
3	Not applicable	18,293	7,064,822

SOURCE:

HERS questionnaire, question 18c (1). Addition of a gas log set in existing fireplace.

Natural Draft Gas Fireplace With Glass Doors

Code	Classification	Unweighted	Weighted
1	Yes	38	16,577
2	No or not stated	285	125,045
3	Not applicable	18,293	7,064,822

SOURCE:

HERS questionnaire, question 18c (2). Addition of a natural draft gas fireplace with glass doors.

Power Vented Gas Fireplace With Glass Doors

Code	Classification	Unweighted	Weighted
1	Yes	20	6,831
2	No or not stated	303	134,791
3	Not applicable	18,293	7,064,822

SOURCE:

HERS questionnaire, question 18c (3). Addition of a power vented gas fireplace with glass doors.

Direct Vent Gas Fireplace (High-Efficiency)

Code	Classification	Unweighted	Weighted
1	Yes	54	24,632
2	No or not stated	269	116,990
3	Not applicable	18,293	7,064,822

SOURCE:

HERS questionnaire, question 18c (4). Addition of a direct vent, high-efficiency gas fireplace.

UPGRADES OR ADDITIONS MADE TO FIREPLACE

Code	Classification	Unweighted	Weighted
1	Yes	136	55,037
2	No	18,472	7,148,042
3	Not stated	8	3,365

SOURCE:

HERS questionnaire, question 18d. Upgrades or additions to fireplace.

ADDITION OF INSERT TO EXISTING WOOD FIREPLACE

Code	Classification	Unweighted	Weighted
1	Yes	21	7,130
2	No or not stated	115	47,907
3	Not applicable	18,480	7,151,407

SOURCE:

HERS questionnaire, question 18e (1). Addition of a fireplace insert to the existing wood burning fireplace.

ADDITION OF GLASS DOORS TO THE EXISTING WOOD FIREPLACE

Code	Classification	Unweighted	Weighted
1	Yes	11	4,264
2	No or not stated	125	50,773
3	Not applicable	18,480	7,151,407

SOURCE:

HERS questionnaire, question 18e (2). Addition of glass doors to the existing fireplace.

INSTALLATION OF A NEW WOOD FIREPLACE WITHOUT INSERT

Code	Classification	Unweighted	Weighted
1	Yes	1	280
2	No or not stated	135	54,757
3	Not applicable	18,480	7,151,407

SOURCE:

HERS questionnaire, question 18e (3). Installation of a new wood burning fireplace without insert.

INSTALLATION OF A NEW WOOD FIREPLACE WITH INSERT

Code	Classification	Unweighted	Weighted
1	Yes	5	2,020
2	No or not stated	131	53,017
3	Not applicable	18,480	7,151,407

SOURCE:

HERS questionnaire, question 18e (4). Installation of a new wood burning fireplace with insert.

CONVERSION OF EXISTING WOOD FIREPLACE TO A GAS FIREPLACE

Code	Classification	Unweighted	Weighted
1	Yes	57	24,197
2	No or not stated	79	30,840
3	Not applicable	18,480	7,151,407

SOURCE:

HERS questionnaire, question 18e (5). Conversion of an existing wood burning fireplace to a gas burning fireplace.

OTHER TYPES OF UPGRADES OR ADDITIONS

Code	Classification	Unweighted	Weighted
1	Yes	45	18,351
2	No or not stated	91	36,686
3	Not applicable	18,480	7,151,407

SOURCE:

HERS questionnaire, question 18e (6). Other types of upgrades or additions involving fireplaces.

MOTIVATION FOR PERFORMING WORK:**WORK DONE ON INSULATION, WINDOWS OR DOORS**

Code	Classification	Unweighted	Weighted
1	Yes	2,443	906,354
2	No or not stated	16,173	6,300,090

SOURCE:

HERS questionnaire, question 19. Work done on insulation, windows or doors. Question 19 was asked when at least one of the answers to questions HECSQ1 or HECSQ3 or HECSQ8 was yes.

REASONS THAT MOTIVATED THE WORK DONE ON INSULATION, WINDOWS OR DOORS:**Maintenance**

Code	Classification	Unweighted	Weighted
1	Yes	1,039	363,182
2	No or not stated	1,404	543,172
3	Not applicable	16,173	6,300,090

SOURCE:

HERS questionnaire, question 19(1). Reason for work done on insulation, windows or doors: Maintenance.

Appearance

Code	Classification	Unweighted	Weighted
1	Yes	532	194,792
2	No or not stated	1,911	711,562
3	Not applicable	16,173	6,300,090

SOURCE:

HERS questionnaire, question 19(2). Reason for work done on insulation, windows or doors: Appearance.

Comfort

Code	Classification	Unweighted	Weighted
1	Yes	784	284,598
2	No or not stated	1,659	621,756
3	Not applicable	16,173	6,300,090

SOURCE:

HERS questionnaire, question 19(3). Reason for work done on insulation, windows or doors: Comfort.

Energy Savings

Code	Classification	Unweighted	Weighted
1	Yes	1,537	559,673
2	No or not stated	906	346,681
3	Not applicable	16,173	6,300,090

SOURCE:

HERS questionnaire, question 19(4). Reason for work done on insulation, windows or doors: Energy savings.

Addition of Living Space

Code	Classification	Unweighted	Weighted
1	Yes	68	25,878
2	No or not stated	2,375	880,476
3	Not applicable	16,173	6,300,090

SOURCE:

HERS questionnaire, question 19(5). Reason for work done on insulation, windows or doors: Addition of living space.

Resale Value of Home

Code	Classification	Unweighted	Weighted
1	Yes	179	64,706
2	No or not stated	2,264	841,648
3	Not applicable	16,173	6,300,090

SOURCE:

HERS questionnaire, question 19(6). Reason for work done on insulation, windows or doors: Resale value of home.

Concern About The Environment

Code	Classification	Unweighted	Weighted
1	Yes	28	9,668
2	No or not stated	2,415	896,686
3	Not applicable	16,173	6,300,090

SOURCE:

HERS questionnaire, question 19(7). Reason for work done on insulation, windows or doors: Concern about the environment.

Included in a Renovation Project

Code	Classification	Unweighted	Weighted
1	Yes	136	44,542
2	No or not stated	2,307	861,812
3	Not applicable	16,173	6,300,090

SOURCE:

HERS questionnaire, question 19(8). Reason for work done on insulation, windows or doors: Included in a renovation project.

Indoor Air Quality/Health

Code	Classification	Unweighted	Weighted
1	Yes	33	12,968
2	No or not stated	2,410	893,386
3	Not applicable	16,173	6,300,090

SOURCE:

HERS questionnaire, question 19(9). Reason for work done on insulation, windows or doors: Indoor air quality/health.

Other Reasons for Doing Work on Insulation, Windows or Doors:

Code	Classification	Unweighted	Weighted
1	Yes	67	30,444
2	No or not stated	2,376	875,910
3	Not applicable	16,173	6,300,090

SOURCE:

HERS questionnaire, question 19(10). Reason for work done on insulation, windows or doors: Other.

Work on Insulation, Windows or Doors Done by a Certified General Contractor

Code	Classification	Unweighted	Weighted
1	Yes	891	353,634
2	No	1,539	548,462
3	Not stated	13	4,258
4	Not applicable	16,173	6,300,090

SOURCE:

HERS questionnaire, question 19a. Work done on insulation, windows or doors done by a certified general contractor.

INFORMATION THAT INFLUENCED THE CHOICE OF MATERIAL FOR WORK ON INSULATION, WINDOWS OR DOORS:**Information Provided by Retail Store/Home Centers**

Code	Classification	Unweighted	Weighted
1	Yes	804	295,358
2	No or not stated	1,639	610,996
3	Not applicable	16,173	6,300,090

SOURCE:

HERS questionnaire, question 19b(1). Information for work done on insulation, windows or doors was provided by retail store/home centers.

Information Provided by Magazines/Newspapers

Code	Classification	Unweighted	Weighted
1	Yes	159	62,231
2	No or not stated	2,284	844,123
3	Not applicable	16,173	6,300,090

SOURCE:

HERS questionnaire, question 19b(2). Information for work done on insulation, windows or doors was provided by magazines/newspapers.

Information Provided by Friends/Relatives

Code	Classification	Unweighted	Weighted
1	Yes	371	143,212
2	No or not stated	2,072	763,142
3	Not applicable	16,173	6,300,090

SOURCE:

HERS questionnaire, question 19b(3). Information for work done on insulation, windows or doors was provided by friends or relatives.

Information Came from Personal Knowledge

Code	Classification	Unweighted	Weighted
1	Yes	916	311,718
2	No or not stated	1,527	594,636
3	Not applicable	16,173	6,300,090

SOURCE:

HERS questionnaire, question 19b(4). Information for work done on insulation, windows or doors came from personal knowledge.

Information Provided by Contractor

Code	Classification	Unweighted	Weighted
1	Yes	486	193,825
2	No or not stated	1,957	712,529
3	Not applicable	16,173	6,300,090

SOURCE:

HERS questionnaire, question 19b(5). Information for work done on insulation, windows or doors was provided by contractor.

Information Provided by any Other Sources

Code	Classification	Unweighted	Weighted
1	Yes	119	51,985
2	No or not stated	2,324	854,369
3	Not applicable	16,173	6,300,090

SOURCE:

HERS questionnaire, question 19b(6). Information for work done on insulation, windows or doors was provided by any other sources.

CHANGES/ADDITIONS/IMPROVEMENTS TO HEATING OR VENTILATION EQUIPMENT

Code	Classification	Unweighted	Weighted
1	Yes	418	150,377
2	No or not stated	18,198	7,056,067

SOURCE:

HERS questionnaire, question 20. Changes, additions, and improvements made to heating or ventilation equipment. Question 20 was asked when at least one of the answers to questions HECSQ9 or HECSQ10a or HECSQ11b was yes.

REASONS THAT MOTIVATED THE WORK DONE ON HEATING OR VENTILATION EQUIPMENT:

Maintenance

Code	Classification	Unweighted	Weighted
1	Yes	124	41,373
2	No or not stated	294	109,004
3	Not applicable	18,198	7,056,067

SOURCE:

HERS questionnaire, question 20(1). Reason for changes, additions or improvements made to heating or ventilation equipment: Maintenance.

Comfort

Code	Classification	Unweighted	Weighted
1	Yes	156	58,421
2	No or not stated	262	91,956
3	Not applicable	18,198	7,056,067

SOURCE:

HERS questionnaire, question 20(2). Reason for changes, additions or improvements made to heating or ventilation equipment: Comfort.

Energy Savings

Code	Classification	Unweighted	Weighted
1	Yes	222	87,130
2	No or not stated	196	63,247
3	Not applicable	18,198	7,056,067

SOURCE:

HERS questionnaire, question 20(3). Reason for changes, additions or improvements made to heating or ventilation equipment: Energy savings.

Addition of Living Space

Code	Classification	Unweighted	Weighted
1	Yes	14	6,101
2	No or not stated	404	144,276
3	Not applicable	18,198	7,056,067

SOURCE:

HERS questionnaire, question 20(4). Reason for changes, additions or improvements made to the heating or ventilation equipment: Addition of living space.

Resale Value of Home

Code	Classification	Unweighted	Weighted
1	Yes	30	14,084
2	No or not stated	388	136,293
3	Not applicable	18,198	7,056,067

SOURCE:

HERS questionnaire, question 20(5). Reason for changes, additions or improvements made to heating or ventilation equipment: Resale value of home.

Concern About the Environment

Code	Classification	Unweighted	Weighted
1	Yes	11	4,097
2	No or not stated	407	146,280
3	Not applicable	18,198	7,056,067

SOURCE:

HERS questionnaire, question 20(6). Reason for changes, additions or improvements made to heating or ventilation equipment: Concern about the environment.

Included in a Renovation Project

Code	Classification	Unweighted	Weighted
1	Yes	16	6,814
2	No or not stated	402	143,563
3	Not applicable	18,198	7,056,067

SOURCE:

HERS questionnaire, question 20(7). Reason for changes, additions or improvements made to heating or ventilation equipment: Included in a renovation project.

Indoor Air Quality/Health

Code	Classification	Unweighted	Weighted
1	Yes	74	27,330
2	No or not stated	344	123,047
3	Not applicable	18,198	7,056,067

SOURCE:

HERS questionnaire, question 20(8). Reason for changes, additions or improvements made to heating or ventilation equipment: Indoor air quality/health.

Other Reasons for Performing Work on Heating or Ventilation Equipment

Code	Classification	Unweighted	Weighted
1	Yes	36	11,812
2	No or not stated	382	138,565
3	Not applicable	18,198	7,056,067

SOURCE:

HERS questionnaire, question 20(9). Reason for changes, additions or improvements made to heating or ventilation equipment: Other.

USER'S GUIDE

SURVEY METHODOLOGY

Coverage

The Labour Force Survey (LFS) sample is designed to represent virtually all households in Canada, except for households in the Yukon and the Northwest Territories, households on Indian reserves and Crown lands, and the institutional population.

Only homeowner households living in private dwellings are represented on this file. This excludes military camps, collective households such as hotels, large lodging houses, clubs, logging and construction camps. Also excluded are private households living in motor homes, in tents, on boats, or other dwellings (other than mobile homes) that can be moved on short notice.

The Sample

The sample for the 1995 HRRS/HERS used four sixths (or approximately 40,000 households) of the March 1996 Labour Force Survey sample. Households who reported that they were homeowners in the February 1996 Labour Force Survey were selected for this survey.

Data Collection

The computer assisted interviewing (CAI) process is used by the HRRS\HERS and the LFS, thus eliminating the need for paper questionnaires. The CAI process consists of reading the questions directly from the computer screen and entering the appropriate response. After administering the monthly Labour Force Survey questionnaire, the interviewer administered the HRRS/HERS questionnaires to the preselected homeowner households. The interviewer determined who the best person would be to talk to about the household's housing expenses. This person was asked a series of questions covering additions and renovations, repairs and maintenance expenditures as well as questions on changes in energy retrofit in 1995. These questions covered all dwellings owned and occupied by a household member during that year. This excluded vacation homes and expenses for business.

Questionnaires were completed by telephone interview unless a personal interview was required according to Labour Force Survey interviewing procedures.

While the information on repair and renovation expenditures and on changes in energy retrofit was collected in March of 1996, other data in this report (household characteristics and income) were collected in subsequent months. These data were obtained from the Labour Force Survey in March, from the Survey of Consumer Finances conducted one month later, in April, and from the Household Facilities and Equipment Survey conducted two months later, in May.

Data Processing and Quality Control

The Labour Force Survey, the Survey of Consumer Finances and the Household Facilities and Equipment Survey were all conducted using CAI; and the results were processed and edited according to their established procedures.

By using CAI, the HRRS/HERS data were automatically captured during the interview. Pre-programmed edits and skip-patterns improved data quality and reduced processing time. After each working day during the two-week survey period in the field, data were transmitted electronically to head office. Notes written by interviewers and extreme values were all examined; and the data was edited when needed. Imputations were made for unacceptable or non responses to the HRRS/HERS items.

Sample Response

The response rate for the total sample was 83% of the eligible households.

Weighting

The estimation of population characteristics from a survey is based on the premise that each sampled unit represents, in addition to itself, a certain number of unsampled units in the population. A simple survey weight is attached to each record in the sample to reflect this representation. The primary component of this weight is the inverse of the sampling ratio.

An integrated method of weighting was applied to this primary component to improve the efficiency of the estimates. This method incorporates independent control totals by province and sub-provincial areas for the population by age and sex. The controls for the homeowner population covered by this survey were obtained using weighted totals from the homeowner sample of the Labour Force Survey.

It should also be noted that the processing of the linked part of the sample included the Survey of Consumer Finances and Household Facilities and Equipment Survey records that were imputed in full, while no full-record imputation was performed on the HRRS/HERS records. The resulting usable linked sample does not, therefore, directly correspond to the sample used to generate the tables in **Household Facilities by Income and Other Characteristics, 1995**, Statistics Canada, Catalogue no. 13-218-XPB

The Effect of Large Values

For any sample, estimates can be affected by the presence and absence of extreme values from the population. These extremes are more likely to arise from positively skewed populations. The nature of additions, renovations and repairs lends itself to such extreme values. Totals, averages and standard errors are greatly influenced by the presence of these extremes. For example, all the difference between two sample averages may be caused by the difference in values at the upper end of the ranges. Distributions of expenditure and order statistics such as medians and quartile bounds are generally less affected.

The Reliability of Sample Estimates:

Sampling Error

Sampling errors occur because inferences about the entire population are based on information obtained from only a sample of the population. The sample design, the method of estimation, the variability of the data and the sample size determine the size of the sampling error.

The sample for the HRRS/HERS was based on a stratified cluster scheme. The sampling errors for such a design are usually higher than those for a simple random sample of the same size. The sampling error was estimated using a "jackknife" type estimator.

Non-sampling Error

Non-sampling errors occur because certain factors make it difficult to obtain accurate responses and retain their accuracy throughout processing. Unlike sampling error, non-sampling error is not readily quantified. Four sources of non-sampling error can be identified: Coverage error, Response error, Non-response error and Processing error.

Coverage error results from inadequate representation of the intended population. This error may occur during sample design, selection, or both, or during data collection and processing. There is no evidence of significant coverage error in the 1995 HRRS/HERS.

Response error may be due to many factors, including faulty design of the questionnaire, interviewers' or respondents' misinterpretation of questions, or respondents' faulty reporting. The expenditures covered by this survey are also prone to a tendency for respondents to provide round number estimates.

Non-response error occurs in all sample surveys because not all potential respondents cooperate fully. This error is significant when a group of persons, with particular characteristics in common, refuse to cooperate and where those characteristics are important determinants of survey results.

Processing error may occur in any of the data processing stages, for example: during the data entry, editing, weighting, and tabulation.

