

**1994 Homeowner Repair and Renovation Survey**  
**and**  
**1994 Home Energy Retrofit Survey**  
**Public-use Microdata File**

Family Expenditure Surveys Section  
Household Surveys Division  
Statistics Canada

April 1997

Version 3



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## **Part 1**

### **Introduction**

This public-use microdata tape is the first 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 1995 as a supplement to the Labour Force Survey and refers to calendar year 1994. These surveys provide information for homeowners living in private households in the ten provinces of Canada.

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.

A copy of the publication called 'Homeowner Repair and Renovation Expenditure in Canada, 1994,' which also includes selected results from the Home Energy Retrofit Survey, is also included with the package.



## **Part 2**

### **THE PUBLIC USE MICRODATA FILE**

#### **TECHNICAL CHARACTERISTICS OF THE FILE**

**CONTENT:** Homeowner Repair and Renovation - 1994  
Home Energy Retrofit - 1994

**SOURCE:** Homeowner Repair and Renovation Survey in 1994  
Home Energy Retrofit Survey in 1994  
Household Surveys Division  
Statistics Canada

#### **DATA SET DEFINITION:**

**DATA SET NAME:** PUMD.HRSHER94.DATA.FILEV1

**FILE SEQUENCE NUMBER:** 1

**NUMBER OF RECORDS:** 21,153

**FORMAT:** Fixed Length  
Record size = 514  
Block factor = 63

**SEQUENCE CONTROL FIELD TITLE:** Identification Number

**SEQUENCE ORDER:** Ascending

**RECORD LAYOUT:** Supplied - see next page



# **RECORD LAYOUT OF PUMD.HRSHER94.DATA.FILEV1**

<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 OWNED DWELLINGS
14	1	28	N	TYPE OF DWELLING OCCUPIED BY HOUSEHOLD AT TIME OF SURVEY
15	1	29	N	DWELLING 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>				
<b>ADDITIONS:</b>				
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
<b>ADDITIONS - CONTRACTS AND MATERIALS</b>				
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 OF PUMD.HRSHER94.DATA.FILEV1 - continued**

<b><u>FIELD</u></b>	<b><u>SIZE</u></b>	<b><u>POSITION</u></b>	<b><u>TYPE</u></b>	<b><u>TITLE</u></b>
<b><u>EXPENDITURES</u></b>				
<b>RENOVATIONS AND ALTERATIONS:</b>				
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	<b>COMBINATION OF INTERIOR AND EXTERIOR WORK DONE - CONTRACTS AND MATERIALS</b>
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	<b>EXTERIOR WORK ONLY - CONTRACTS AND MATERIALS</b>
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	<b>INTERIOR WORK ONLY - CONTRACTS AND MATERIALS</b>
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
<b>REPLACEMENT OF EQUIPMENT:</b>				
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
<b>REPLACEMENT OF EQUIPMENT - CONTRACTS AND MATERIALS:</b>				
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 OF PUMD.HRSHER94.DATA.FILEV1 - continued**

<b><u>FIELD</u></b>	<b><u>SIZE</u></b>	<b><u>POSITION</u></b>	<b><u>TYPE</u></b>	<b><u>TITLE</u></b>
<b><u>EXPENDITURES</u></b>				
<b>NEW INSTALLATIONS OF EQUIPMENT:</b>				
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
<b>NEW INSTALLATIONS OF EQUIPMENT - CONTRACTS AND MATERIALS:</b>				
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
<b>REPAIRS AND MAINTENANCE:</b>				
71	7	281 - 287	N	TOTAL EXPENDITURES FOR REPAIRS AND MAINTENANCE
72	7	288 - 294	N	- CONTRACTED WORK OUT
73	7	295 - 301	N	- MATERIALS PURCHASED SEPARATELY
<b>REPAIRS AND MAINTENANCE - CONTRACTS AND MATERIALS:</b>				
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 WEATHER-STRIPPING
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 OF PUMD.HRSHER94.DATA.FILEV1 - continued**

<b><u>FIELD</u></b>	<b><u>SIZE</u></b>	<b><u>POSITION</u></b>	<b><u>TYPE</u></b>	<b><u>TITLE</u></b>
<b><u>HOME ENERGY RETROFIT ACTIVITIES</u></b>				
<b>INSULATION:</b>				
88	1	400	N	IMPROVEMENTS TO INSULATION
89	1	401	N	WALL INSULATION (EXCLUDING BASEMENT)
90	1	402	N	WHERE WAS WALL INSULATION ADDED
91	1	403	N	BASEMENT WALL INSULATION
92	1	404	N	WHERE WAS BASEMENT WALL INSULATION ADDED
93	1	405	N	REPLACEMENT OR UPGRADE OF EXISTING INSULATION
94	1	406	N	NEW INSTALLATION (TO A WALL NOT PREVIOUSLY INSULATED)
95	1	407	N	HEATED BASEMENT IN 1994
96	1	408	N	HEATED BASEMENT BEFORE 1994
97	1	409	N	DESCRIPTION OF INTERIOR BASEMENT WALL INSULATION
98	1	410	N	ROOF OR ATTIC INSULATION
99	1	411	N	BASEMENT FLOORS INSULATION (EXCLUDING CARPET)
100	1	412	N	GARAGE INSULATION
101	1	413	N	OTHER AREAS INSULATED
<b>WINDOWS:</b>				
102	1	414	N	IMPROVEMENTS TO WINDOWS
				NUMBER OF WINDOWS UPGRADED:
103	2	415 - 416	N	FROM SINGLE TO DOUBLE PANE
104	2	417 - 418	N	FROM DOUBLE TO TRIPLE PANE
105	2	419 - 420	N	WITH SAME NUMBER OF PANES
106	2	421 - 422	N	WITH CAULKING OR WEATHER-STRIPPING
107	1	423	N	CAULKING/WEATHERSTRIPPING OF WINDOWS PROFESSIONALLY DONE
108	2	424 - 425	N	NUMBER OF STORM WINDOWS ADDED TO SINGLE PANE WINDOWS
109	1	426	N	OTHER IMPROVEMENTS TO WINDOWS
<b>DOORS:</b>				
110	1	427	N	IMPROVEMENTS TO EXTERIOR DOORS
111	2	428 - 429	N	NUMBER OF DOORS UPGRADED FROM WOOD TO METAL
112	2	430 - 431	N	NUMBER OF STORM DOORS ADDED TO EXTERIOR DOORS
113	2	432 - 433	N	NUMBER OF DOORS UPGRADED WITH CAULKING OR WEATHERSTRIPPING
114	1	434	N	CAULKING/WEATHERSTRIPPING OF DOORS PROFESSIONALLY DONE
115	1	435	N	OTHER IMPROVEMENTS TO DOORS



**RECORD LAYOUT OF PUMD.HRSHER94.DATA.FILEV1 - continued**

<b><u>FIELD</u></b>	<b><u>SIZE</u></b>	<b><u>POSITION</u></b>	<b><u>TYPE</u></b>	<b><u>TITLE</u></b>
<b>HEATING AND VENTILATION SYSTEMS INFORMATION:</b>				
116	1	436	N	INSTALLATION OF A CENTRAL VENTILATION SYSTEM
117	1	437	N	INSTALLATION OF A HEAT RECOVERY SYSTEM
118	1	438	N	PRINCIPAL HEATING SYSTEM (PREVIOUS)
119	1	439	N	PRINCIPAL HEATING SYSTEM (CURRENT)
120	1	440	N	FUEL OR ENERGY SOURCE (PREVIOUS)
121	1	441	N	FUEL OR ENERGY SOURCE (CURRENT)
<b>REPLACEMENT/UPGRADE TO OIL HEATING EQUIPMENT</b>				
122	1	442	N	BURNER REPLACEMENT
123	1	443	N	NEW OIL-FIRED FURNACE/BOILER VENTING TO EXISTING CHIMNEY
124	1	444	N	RE-LINING EXISTING CHIMNEY WITH METAL LINER
125	1	445	N	NEW OIL-FIRED FURNACE/BOILER VENTING OUTSIDE WALL OF HOUSE
126	1	446	N	NEW OIL-FIRED WATER HEATER (WITH FAN COIL) AS MAIN HEATING SOURCE
127	1	447	N	NEW ADVANCED OIL-FIRED COMBINED SPACE AND WATER HEATING SYSTEM
128	1	448	N	INSTALLATION OF A SEPARATE OIL-FIRED WATER HEATER
129	1	449	N	OTHER UPGRADES OR REPLACEMENTS
130	1	450	N	
<b>REPLACEMENT/UPGRADE TO GAS HEATING EQUIPMENT</b>				
131	1	451	N	INSTALLATION OF A GAS BURNER IN EXISTING OIL FURNACE
132	1	452	N	INSTALLATION OF A MID-EFFICIENCY GAS-FIRED FURNACE OR BOILER
133	1	453	N	INSTALLATION OF A HIGH EFFICIENCY GAS-FIRED FURNACE OR BOILER
134	1	454	N	INSTALLATION OF STANDARD GAS-FIRED WATER HEATER (WITH FAN COIL) AS MAIN HEATING SOURCE
135	1	455	N	INSTALLATION OF CONDENSING GAS-FIRED WATER HEATER (WITH FAN COIL) AS MAIN HEATING SOURCE
136	1	456	N	INSTALLATION OF A HIGH EFFICIENCY COMBINED SPACE AND TAP WATER HEATING SYSTEM
137	1	457	N	INSTALLATION OF A SEPARATE STANDARD GAS-FIRED WATER HEATER
138	1	458	N	INSTALLATION OF A SEPARATE HIGH-EFFICIENCY GAS-FIRED WATER HEATER
139	1	459	N	OTHER UPGRADES OR REPLACEMENTS
140	1	460	N	

**RECORD LAYOUT OF PUMD.HRSHER94.DATA.FILEV1 - continued**

<b><u>FIELD</u></b>	<b><u>SIZE</u></b>	<b><u>POSITION</u></b>	<b><u>TYPE</u></b>	<b><u>TITLE</u></b>
141	1	461	N	<b>REPLACEMENT/UPGRADE TO ELECTRIC HEATING EQUIPMENT</b>
142	1	462	N	ADDITION OF LOCAL GAS SPACE HEATERS OR GAS BASEBOARDS
143	1	463	N	ADDITION OF MORE ELECTRIC BASEBOARD HEATERS
144	1	464	N	ADDITION OF NEW ELECTRIC THERMOSTATS TO BASEBOARD HEATER
145	1	465	N	INSTALLATION OF A NEW ELECTRIC HOT WATER HEATER
146	1	466	N	OTHER UPGRADES OR REPLACEMENTS
<b>FEATURES ADDED TO REDUCE ENERGY CONSUMPTION:</b>				
147	1	467	N	ADDITION OF HEAT PUMP
148	1	468	N	ENERGY SAVING FEATURES ADDED
149	1	469	N	PROGRAMMABLE THERMOSTAT
150	1	470	N	INSULATION BLANKET AROUND OUTSIDE OF HOT WATER TANK
151	1	471	N	INSULATION AROUND HOT WATER SYSTEM PIPES
152	1	472	N	INSULATION AROUND AIR DUCTS AND/OR SEALING LEAKY DUCTWORK
153	1	473	N	LOW FLOW SHOWER HEADS
154	1	474	N	ATTACHMENT OF AERATORS TO HOT WATER FAUCETS
155	1	475	N	FLUORESCENT LIGHTS TO REPLACE CONVENTIONAL LIGHT BULBS
<b>FLOOR SPACE INFORMATION:</b>				
156	1	476	N	FLOOR SPACE ADDED TO DWELLING
157	4	477 - 480	N	SIZE OF FLOOR SPACE ADDED
158	1	481	N	UNIT OF MEASURE FOR ADDED FLOOR SPACE
<b>FIREPLACE INFORMATION:</b>				
159	1	482	N	ADDITION OF FIREPLACE
<b>WOOD BURNING FIREPLACE:</b>				
160	1	483	N	ADDITION OF WOOD BURNING FIREPLACE
<b>FEATURES OF WOOD BURNING FIREPLACE:</b>				
161	1	484	N	MASONRY(BRICK) FIREPLACE
162	1	485	N	PREFAB METAL FIREPLACE
163	1	486	N	EQUIPPED WITH GLASS DOORS
164	1	487	N	ADVANCED COMBUSTION, HIGH-EFFICIENCY FIREPLACE
<b>GAS OR PROPANE BURNING FIREPLACE:</b>				
165	1	488	N	ADDITION OF A GAS OR PROPANE BURNING FIREPLACE
<b>FEATURES OF GAS OR PROPANE BURNING FIREPLACE:</b>				
166	1	489	N	GAS LOG SET IN EXISTING FIREPLACE
167	1	490	N	NATURAL DRAFT GAS FIREPLACE WITH GLASS DOORS
168	1	491	N	POWER VENTED GAS FIREPLACE WITH GLASS DOORS
169	1	492	N	DIRECT VENT GAS FIREPLACE (HIGH-EFFICIENCY)

**RECORD LAYOUT OF PUMD.HRSHER94.DATA.FILEV1 - concluded**

<b><u>FIELD</u></b>	<b><u>SIZE</u></b>	<b><u>POSITION</u></b>	<b><u>TYPE</u></b>	<b><u>TITLE</u></b>
170	1	493	N	UPGRADES OR ADDITIONS MADE TO FIREPLACE
171	1	494	N	ADDITION OF INSERT TO EXISTING WOOD FIREPLACE
172	1	495	N	ADDITION OF GLASS DOORS TO EXISTING FIREPLACE
173	1	496	N	INSTALLATION OF A NEW WOOD FIREPLACE WITHOUT INSERT
174	1	497	N	INSTALLATION OF A NEW WOOD FIREPLACE WITH INSERT
175	1	498	N	CONVERSION OF EXISTING WOOD FIREPLACE TO A GAS FIREPLACE
176	1	499	N	OTHER TYPES OF UPGRADES OR ADDITIONS
<b>MOTIVATION FOR PERFORMING WORK:</b>				
177	1	500	N	<b>WORK DONE ON INSULATION, WINDOWS, DOORS</b>
REASONS FOR DOING WORK ON INSULATION, WINDOWS OR DOORS:				
178	1	501	N	MAINTENANCE
179	1	502	N	APPEARANCE
180	1	503	N	COMFORT
181	1	504	N	ENERGY SAVINGS
182	1	505	N	ADDITION OF LIVING SPACE
183	1	506	N	RESALE VALUE OF HOME
184	1	507	N	CONCERN ABOUT THE ENVIRONMENT
185	1	508	N	<b>CHANGES, ADDITIONS OR IMPROVEMENTS TO HEATING/VENTILATION EQUIPMENT</b>
REASONS FOR DOING WORK ON HEATING/VENTILATION EQUIPMENT:				
186	1	509	N	MAINTENANCE
187	1	510	N	COMFORT
188	1	511	N	ENERGY SAVINGS
189	1	512	N	ADDITION OF LIVING SPACE
190	1	513	N	RESALE VALUE OF HOME
191	1	514	N	CONCERN ABOUT THE ENVIRONMENT



### **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 21,153. 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	241	94,231
10	Newfoundland	930	146,702
11	Prince Edward Island	538	35,557
12	Nova Scotia	1,366	243,036
13	New Brunswick	1,255	205,058
24	Quebec	3,860	1,633,464
35	Ontario	5,788	2,607,001
46	Manitoba	1,728	287,355
47	Saskatchewan	1,536	265,921
48	Alberta	1,901	677,204
59	British Columbia	2,010	925,149

***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	4,435	2,915,874
2	100,000 - 499,999	6,108	1,398,971
3	30,000 - 99,999	1,564	532,446
4	Under 30,000	3,260	856,661
5	Rural areas	5,786	1,416,726

***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
1-13	Actual number of persons	21,153	7,120,678

*SOURCE:*

Labour Force Survey, March 1995.

### *NUMBER OF CHILDREN (UNDER 15 YEARS OF AGE)*

Code	Classification	Unweighted	Weighted
0	No children in household	13,748	4,801,833
1-9	Actual number of children	7,405	2,318,845

*SOURCE:*

Labour Force Survey, March 1995.

### *NUMBER OF ADULTS (15 YEARS OF AGE OR OLDER)*

Code	Classification	Unweighted	Weighted
1-10	Actual number of adults	21,153	7,120,678

*SOURCE:*

Labour Force Survey, March 1995.

### *AGE OF REFERENCE PERSON*

Code	Classification	Unweighted	Weighted
24	Less than 25 years	205	66,270
25-75	Actual age of reference person	19,529	6,597,088
76	76 years or older	1,419	457,320

*SOURCE:*

Labour Force Survey, March 1995.

***SEX OF REFERENCE PERSON***

Code	Classification	Unweighted	Weighted
1	Male	15,906	5,353,930
2	Female	5,247	1,766,748

***SOURCE:***

Labour Force Survey, March 1995.

***MARITAL STATUS OF REFERENCE PERSON***

Code	Classification	Unweighted	Weighted
1	Married	16,200	5,425,422
2	Single	1,392	522,315
3	Widowed	2,083	668,609
4	Separated/Divorced	1,478	504,332

***SOURCE:***

Labour Force Survey, March 1995.

***EDUCATION OF REFERENCE PERSON***

Code	Classification	Unweighted	Weighted
1	Grades 0 to 8	3,367	1,031,815
2	Some high school	3,625	1,100,523
3	Graduated high school	3,545	1,246,513
4	Some post-secondary	1,288	463,359
5	Certificate/Diploma	6,317	2,111,485
6	University Degree	3,011	1,166,983

***SOURCE:***

Labour Force Survey, March 1995.

***HOUSEHOLD COMPOSITION***

Code	Classification	Unweighted	Weighted
1	One unattached individual	3,075	1,061,074
2	One family only	17,715	5,923,550
3	Multi-unit household: only unattached individuals	287	108,424
4	Multi-unit household: at least one family	76	27,630

***SOURCE:***

Labour Force Survey, March 1995.



## HOUSING

### ***MONTHS DWELLING(S) OWNED AND OCCUPIED***

Code	Classification	Unweighted	Weighted
1	One month	66	23,161
2	Two months	71	19,984
3	Three months	67	20,586
4	Four months	77	23,535
5	Five months	70	24,785
6	Six months	205	81,979
7	Seven months	76	31,355
8	Eight months	80	32,409
9	Nine months	74	24,103
10	Ten months	56	19,679
11	Eleven months	31	11,157
12	Twelve months or more	20,280	6,807,945

*SOURCE:*

HRRS questionnaire, questions 1, 2aa, 2b, 2d. Dwellings occupied by all members of the household in 1994.

*NOTE:*

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	17,893	5,735,596
2	Apartment	769	407,720
3	Double	782	366,605
4	Row/Terrace	538	263,514
5	Duplex	370	133,588
6	Mobile home	801	213,655

*SOURCE:*

Labour Force Survey, March 1995.

### ***DWELLING ORIGINALLY CONSTRUCTED***

Code	Classification	Unweighted	Weighted
1	Before 1941	3,393	1,032,108
2	1941 - 1950	1,526	502,480
3	1951 - 1960	2,306	810,377
4	1961 - 1970	3,044	1,022,048
5	1971 - 1980	5,166	1,715,059
6	1981 - 1990	4,251	1,474,195
7	1991 - 1994	1,467	564,411

***SOURCE:***

HERS questionnaire, question 22 and HFE 1995. Year of dwelling construction.

### ***TOTAL HEATED LIVING AREA OF DWELLING***

Weighted Average

1,279.30

***SOURCE:***

HERS questionnaire, question 18. Total heated living area of dwelling (excluding basement and garage).

### ***UNIT OF MEASURE FOR HEATED LIVING AREA***

Code	Classification	Unweighted	Weighted
1	Square feet	18,167	6,149,975
2	Square metres	19	8,198
3	Number of rooms	2,967	962,505
4	Other units	0	0

***SOURCE:***

HERS questionnaire, question 18b. Unit of measure for heated living area.

***TOTAL HOUSEHOLD INCOME GROUP***

Code	Classification	Unweighted	Weighted
1	Under \$10,000	624	181,338
2	\$10,000 - \$14,999	1,204	367,968
3	\$15,000 - \$19,999	1,208	345,209
4	\$20,000 - \$24,999	1,356	419,583
5	\$25,000 - \$29,999	1,350	403,861
6	\$30,000 - \$34,999	1,450	458,592
7	\$35,000 - \$39,999	1,441	467,427
8	\$40,000 - \$49,999	2,621	860,733
9	\$50,000 - \$59,999	2,493	845,300
10	\$60,000 - \$79,999	3,328	1,175,391
11	\$80,000 or more	3,164	1,266,136
12	Not stated	914	329,140

***SOURCE:***

HERS questionnaire, question 23 and Survey of Consumer Finances (SCF) 1995.

## **EXPENDITURES**

### ***TOTAL EXPENDITURES FOR ADDITIONS:***

Weighted Average

434.13

#### ***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

255.62

#### ***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

178.51

#### ***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

67.48

#### ***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

218.06

*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	104	28,225
2	No or Not stated	1,018	311,810
3	Not applicable	20,031	6,780,643

*SOURCE:*

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

#### Addition of Bathroom

Code	Classification	Unweighted	Weighted
1	Yes	56	17,575
2	No or Not stated	1,066	322,460
3	Not applicable	20,031	6,780,643

*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	614	182,577
2	No or Not stated	508	157,458
3	Not applicable	20,031	6,780,643

*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	280	83,964
2	No or Not stated	842	256,071
3	Not applicable	20,031	6,780,643

*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	44	16,978
2	No or Not stated	1,078	323,057
3	Not applicable	20,031	6,780,643

*SOURCE:*

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

### **Addition of Some Other Areas**

Code	Classification	Unweighted	Weighted
1	Yes	190	59,580
2	No or Not stated	932	280,455
3	Not applicable	20,031	6,780,643

*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

20.12

*SOURCE:*

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

#### **EXPENDITURES FOR ADDITION OF FENCES, PATIOS OR DRIVEWAYS**

Weighted Average

64.00

*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

64.47

*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

675.74

***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

413.42

***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

262.32

***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

256.59

***SOURCE:***

HRRS questionnaire, questions RENO-Q2c and RENO-Q2d. Expenditures reported for renovations and alterations 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	309	99,049
2	No or Not stated	842	264,999
3	Not applicable	20,002	6,756,630

*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	361	107,550
2	No or Not stated	790	256,498
3	Not applicable	20,002	6,756,630

*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	259	80,879
2	No or Not stated	892	283,169
3	Not applicable	20,002	6,756,630

*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	870	275,537
2	No or Not stated	281	88,511
3	Not applicable	20,002	6,756,630

*SOURCE:*

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

## EXTERIOR WORK ONLY

Weighted Average

153.95

### *SOURCE:*

HRRS questionnaire, questions RENO-Q3c and RENO-Q3d. Expenditures reported for exterior renovations and alterations only.

### **Type of Exterior Work:**

#### **Renovations and Alterations of Window**

Code	Classification	Unweighted	Weighted
1	Yes	611	195,117
2	No or Not stated	879	276,520
3	Not applicable	19,663	6,649,041

### *SOURCE:*

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

#### **Renovations and Alterations of Door**

Code	Classification	Unweighted	Weighted
1	Yes	522	169,101
2	No or Not stated	968	302,536
3	Not applicable	19,663	6,649,041

### *SOURCE:*

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

#### **Renovations and Alterations of Siding**

Code	Classification	Unweighted	Weighted
1	Yes	232	63,593
2	No or Not stated	1,258	408,044
3	Not applicable	19,663	6,649,041

### *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	281	86,103
2	No or Not stated	1,209	385,534
3	Not applicable	19,663	6,649,041

*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	167	58,267
2	No or Not stated	1,323	413,370
3	Not applicable	19,663	6,649,041

*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	175	61,401
2	No or Not stated	1,315	410,236
3	Not applicable	19,663	6,649,041

*SOURCE:*

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

## INTERIOR WORK ONLY

Weighted Average

265.19

*SOURCE:*

HRRS questionnaire, questions RENO-Q4c and RENO-Q4d. Expenditures reported for interior renovations and alterations only.

### Type of Interior Work:

#### Renovations and Alterations of Bathroom

Code	Classification	Unweighted	Weighted
1	Yes	669	232,418
2	No or Not stated	1,510	493,122
3	Not applicable	18,974	6,395,138

*SOURCE:*

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

#### Renovations and Alterations of Kitchen

Code	Classification	Unweighted	Weighted
1	Yes	702	231,149
2	No or Not stated	1,477	494,391
3	Not applicable	18,974	6,395,138

*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	634	220,831
2	No or Not stated	1,545	504,709
3	Not applicable	18,974	6,395,138

*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	929	301,985
2	No or Not stated	1,250	423,555
3	Not applicable	18,974	6,395,138

*SOURCE:*

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

***TOTAL EXPENDITURES FOR REPLACEMENT OF EQUIPMENT:***

Weighted Average

205.71

***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

143.22

***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

62.49

***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

48.04

### *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

63.71

### *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

16.81

### *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

15.04

*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

60.41

*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

1.71

*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.



***EXPENDITURES FOR NEW INSTALLATION OF EQUIPMENT:***

Weighted Average

112.58

***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

75.96

***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

36.62

***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

19.77

*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

53.35

*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

14.28

*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

9.71

*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

14.22

*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

1.25

*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

378.68

***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

229.91

***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

148.77

***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

106.17

### *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

16.13

### *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

21.28

### *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

19.30

### *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

81.16

### *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

19.22

### *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

18.36

### *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

7.64

### *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

30.11

### *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

15.81

### *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

14.30

### *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

6.57

### *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

20.46

*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

2.19

*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.



## HOME ENERGY RETROFIT DATA

### INSULATION:

#### *IMPROVEMENTS TO INSULATION:*

Code	Classification	Unweighted	Weighted
1	Yes	1,064	347,428
2	No	20,089	6,773,250
3	Not stated	0	0

#### *SOURCE:*

HERS questionnaire, question 1. Improvements to dwelling insulation.

#### *WALL INSULATION (EXCLUDING BASEMENT)*

Code	Classification	Unweighted	Weighted
1	Yes	387	114,649
2	No or Not stated	677	232,779
3	Not applicable	20,089	6,773,250

#### *SOURCE:*

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

#### WHERE WAS WALL INSULATION ADDED

Code	Classification	Unweighted	Weighted
1	Outside	111	30,800
2	Inside	243	75,546
3	Both	33	8,303
4	Not applicable or Not stated	20,766	7,006,029

#### *SOURCE:*

HERS questionnaire, question 3. Location of wall insulation.

**BASEMENT WALL INSULATION**

Code	Classification	Unweighted	Weighted
1	Yes	317	106,376
2	No or Not stated	747	241,052
3	Not applicable	20,089	6,773,250

*SOURCE:*

HERS questionnaire, question 2. Improvements to basement wall insulation.

**WHERE WAS BASEMENT WALL INSULATION ADDED**

Code	Classification	Unweighted	Weighted
1	Outside	30	8,243
2	Inside	276	94,350
3	Both	11	3,783
4	Not stated or Not applicable	20,836	7,014,302

*SOURCE:*

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

**REPLACEMENT OR UPGRADE OF EXISTING BASEMENT WALL INSULATION**

Code	Classification	Unweighted	Weighted
1	Yes	78	26,762
2	No or Not stated or Not applicable	21,075	7,093,926

*SOURCE:*

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

**NEW INSTALLATION (TO A WALL NOT PREVIOUSLY INSULATED)**

Code	Classification	Unweighted	Weighted
1	Yes	218	75,493
2	No or Not stated or Not applicable	20,935	7,045,185

*SOURCE:*

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

#### **HEATED BASEMENT IN 1994**

Code	Classification	Unweighted	Weighted
1	Yes	14,721	5,054,510
2	No	2,211	609,310
3	Not stated	7	4,202
4	No basement	4,214	1,452,656

*SOURCE:*

HERS questionnaire, question 5a. Basement heated in 1994.

#### **HEATED BASEMENT BEFORE 1994**

Code	Classification	Unweighted	Weighted
1	Yes	14,347	4,914,437
2	No	2,564	739,723
3	Not stated	28	13,862
4	No basement	4,214	1,452,656

*SOURCE:*

HERS questionnaire, question 5b. Basement heated before 1994 (example: in 1993).

#### **DESCRIPTION OF EXISTING INTERIOR BASEMENT WALL INSULATION**

Code	Classification	Unweighted	Weighted
1	Very little or no insulation in walls	4,487	1,350,956
2	Insulation on top half of walls only	2,702	949,807
3	Insulation from ceiling to floor	9,416	3,231,470
4	Not stated	334	135,789
5	No basement	4,214	1,452,656

*SOURCE:*

HERS questionnaire, question 6. Description of existing interior basement wall insulation.

***ROOF OR ATTIC INSULATION***

Code	Classification	Unweighted	Weighted
1	Yes	312	98,283
2	No or Not stated	752	249,145
3	Not applicable	20,089	6,773,250

*SOURCE:*

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

***BASEMENT FLOORS INSULATION (EXCLUDING CARPET)***

Code	Classification	Unweighted	Weighted
1	Yes	63	17,796
2	No or Not stated	1,001	329,632
3	Not applicable	20,089	6,773,250

*SOURCE:*

HERS questionnaire, question 2. Improvements to basement floors insulation.

***GARAGE INSULATION***

Code	Classification	Unweighted	Weighted
1	Yes	48	20,460
2	No or Not stated	1,016	326,968
3	Not applicable	20,089	6,773,250

*SOURCE:*

HERS questionnaire, question 2. Improvements to garage insulation.

***OTHER AREAS INSULATED***

Code	Classification	Unweighted	Weighted
1	Yes	211	72,063
2	No or Not stated	853	275,365
3	Not applicable	20,089	6,773,250

*SOURCE:*

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

## **WINDOWS:**

### ***IMPROVEMENTS TO WINDOWS***

Code	Classification	Unweighted	Weighted
1	Yes	1,512	476,474
2	No	19,641	6,644,204
3	Not stated	0	0

#### ***SOURCE:***

HERS questionnaire, question 7. Improvements to windows.

### **NUMBER OF WINDOWS UPGRADED FROM SINGLE TO DOUBLE PANE**

Code	Classification	Unweighted	Weighted
1-4	Actual number of windows	308	102,613
5	5 or more windows	189	65,865
6	Not stated	6	2,710
7	Not applicable	20,650	6,949,490

#### ***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
1-2	Actual number of windows	89	21,974
3	3 or more windows	88	23,201
4	Not stated	2	777
5	Not applicable	20,974	7,074,726

#### ***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
1-4	Actual number of windows	290	94,117
5	5 or more windows	138	45,727
6	Not stated	8	3,360
7	Not applicable	20,717	6,977,474

#### ***SOURCE:***

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

#### NUMBER OF WINDOWS UPGRADED WITH CAULKING OR WEATHERSTRIPPING

Code	Classification	Unweighted	Weighted
1-2	Actual number of windows	118	34,108
3	3 or more windows	362	109,625
4	Not stated	12	3,584
5	Not applicable	20,661	6,973,361

*SOURCE:*

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

#### Caulking or Weatherstripping on Windows Professionally Done

Code	Classification	Unweighted	Weighted
1	Yes	145	43,591
2	No	342	102,609
3	Not stated	5	1,117
4	Not applicable	20,661	6,973,361

*SOURCE:*

HERS questionnaire, question 7ee. Caulking or weatherstripping done by a professional.

#### NUMBER OF STORM WINDOWS ADDED TO SINGLE PANE WINDOWS

Code	Classification	Unweighted	Weighted
1-2	Actual number of windows	100	35,415
3	3 or more windows	85	29,112
4	Not stated	2	630
5	Not applicable	20,966	7,055,521

*SOURCE:*

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

#### OTHER IMPROVEMENTS TO WINDOWS

Code	Classification	Unweighted	Weighted
1	Yes	242	75,770
2	No or Not stated or Not applicable	20,911	7,044,908

*SOURCE:*

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

## **DOORS:**

### ***IMPROVEMENTS TO EXTERIOR DOORS***

Code	Classification	Unweighted	Weighted
1	Yes	1,360	420,462
2	No	19,792	6,699,132
3	Not stated	1	1,084

#### ***SOURCE:***

HERS questionnaire, question 8. Improvements to exterior doors.

### **NUMBER OF DOORS UPGRADED FROM WOOD TO METAL**

Code	Classification	Unweighted	Weighted
1	1 door	419	131,543
2	2 doors	206	63,656
3	3 doors or more	39	12,308
4	Not stated	0	0
5	Not applicable	20,489	6,913,171

#### ***SOURCE:***

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

### **NUMBER OF STORM DOORS ADDED TO EXTERIOR DOORS**

Code	Classification	Unweighted	Weighted
1	1 door	199	54,398
2	2 doors or more	68	21,513
3	Not stated	0	0
4	Not applicable	20,886	7,044,767

#### ***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	1 door	152	46,670
2	2 doors or more	198	61,885
3	Not stated	4	1,591
4	Not applicable	20,799	7,010,532

*SOURCE:*

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

**Caulking or Weatherstripping on Doors Professionally Done**

Code	Classification	Unweighted	Weighted
1	Yes	77	27,887
2	No	273	80,425
3	Not stated	4	1,834
4	Not applicable	20,799	7,010,532

*SOURCE:*

HERS questionnaire, question 8dd. Caulking or weatherstripping done by a professional.

**OTHER IMPROVEMENTS TO EXTERIOR DOORS**

Code	Classification	Unweighted	Weighted
1	Yes	268	81,434
2	No or Not stated	1,092	339,028
3	Not applicable	19,793	6,700,216

*SOURCE:*

HERS questionnaire, question 8a(4). Other improvements to exterior doors.



## **HEATING AND VENTILATION SYSTEMS INFORMATION:**

### ***INSTALLATION OF A CENTRAL VENTILATION SYSTEM***

Code	Classification	Unweighted	Weighted
1	Yes	180	60,125
2	No	20,969	7,057,829
3	Not stated	4	2,724

#### ***SOURCE:***

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

### ***INSTALLATION OF A HEAT RECOVERY SYSTEM***

Code	Classification	Unweighted	Weighted
1	Yes	76	24,721
2	No	97	32,952
3	Not stated	7	2,452
4	Not applicable	20,973	7,060,553

#### ***SOURCE:***

HERS questionnaire, question 9a. Installation of heat recovery system.

***PRINCIPAL HEATING SYSTEM (PREVIOUS)***

Code	Classification	Unweighted	Weighted
1	Steam or hot water furnace	11	2,863
2	Forced hot air furnace	44	11,910
3	Other hot air furnace	32	13,051
4	Heating stove (including wood stove)	36	9,925
5	Electric heating	85	29,039
6	Cookstove	3	585
7	Other	25	7,145
8	Not stated	0	0
9	Not applicable	20,917	7,046,160

***SOURCE:***

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

***PRINCIPAL HEATING SYSTEM (CURRENT)***

Code	Classification	Unweighted	Weighted
1	Steam or hot water furnace	1,683	513,703
2	Forced hot air furnace	12,925	4,486,415
3	Other hot air furnace	340	116,474
4	Heating stove (including wood stove)	1,039	271,522
5	Electric heating	4,976	1,672,513
6	Cookstove	32	9,059
7	Other	80	23,907
8	Not stated	78	27,085

***SOURCE:***

HERS questionnaire, question 10b. Current principal heating system and HFE 1995.

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

Code	Classification	Unweighted	Weighted
1	Electricity	99	33,832
2	Wood	46	11,037
3	Propane	9	2,717
4	Natural Gas	7	2,440
5	Oil	85	33,822
6	Other	9	2,902
7	Not stated	0	0
8	Not applicable	20,898	7,033,928

***SOURCE:***

HERS questionnaire, question 11a. Heating fuel or energy source used by the previous principal heating system.

***FUEL OR ENERGY SOURCE (CURRENT)***

Code	Classification	Unweighted	Weighted
1	Oil	3,896	1,106,218
2	Natural gas	9,236	3,491,498
3	Propane	261	83,318
4	Electric	5,962	1,996,314
5	Wood	1,649	395,690
6	Other	71	20,555
7	Not stated	78	27,085

***SOURCE:***

HERS questionnaire, question 11b. Heating fuel or energy source used by the current principal heating system and HFE 1995.

### **REPLACEMENT/UPGRADE TO OIL HEATING EQUIPMENT**

Code	Classification	Unweighted	Weighted
1	Yes	186	51,836
2	No	16,563	5,509,440
3	Not stated	15	7,449
4	Not applicable	4,389	1,551,953

*SOURCE:*

HERS questionnaire, question 12. Principal heating system oil heating equipment - replacements or upgrades.

### **BURNER REPLACEMENT**

Code	Classification	Unweighted	Weighted
1	Yes	26	7,548
2	No or Not stated	160	44,288
3	Not applicable	20,967	7,068,842

*SOURCE:*

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

### **NEW OIL-FIRED FURNACE/BOILER VENTING TO EXISTING CHIMNEY**

Code	Classification	Unweighted	Weighted
1	Yes	83	21,824
2	No or Not stated	103	30,012
3	Not applicable	20,967	7,068,842

*SOURCE:*

HERS questionnaire, question 12a (2). Installation of new oil-fired furnace or boiler, venting into existing chimney.

### **RE-LINING EXISTING CHIMNEY WITH METAL LINER**

Code	Classification	Unweighted	Weighted
1	Yes	6	1,941
2	No or Not stated	180	49,895
3	Not applicable	20,967	7,068,842

*SOURCE:*

HERS questionnaire, question 12a (3). Re-lining existing chimney with metal liner.

**NEW OIL-FIRED FURNACE/BOILER VENTING OUTSIDE WALL OF HOUSE**

Code	Classification	Unweighted	Weighted
1	Yes	10	4,116
2	No or Not stated	176	47,720
3	Not applicable	20,967	7,068,842

*SOURCE:*

HERS questionnaire, question 12a (4). Installation of new oil-fired furnace or boiler, venting outside wall of house.

**NEW OIL-FIRED WATER HEATER(WITH FAN COIL) USED AS MAIN HEATING SOURCE**

Code	Classification	Unweighted	Weighted
1	Yes	9	2,540
2	No or Not stated	177	49,296
3	Not applicable	20,967	7,068,842

*SOURCE:*

HERS questionnaire, question 12a (5). Installation of new oil-fired hot water heater (with fan coil) used as main heating source.

**NEW ADVANCED OIL-FIRED COMBINED SPACE AND WATER HEATING SYSTEM**

Code	Classification	Unweighted	Weighted
1	Yes	3	1,047
2	No or Not stated	183	50,789
3	Not applicable	20,967	7,068,842

*SOURCE:*

HERS questionnaire, question 12a (6). Installation of new, advanced oil-fired combined space and water heating system.

**INSTALLATION OF A SEPARATE OIL-FIRED WATER HEATER**

Code	Classification	Unweighted	Weighted
1	Yes	1	144
2	No or Not stated	185	51,692
3	Not applicable	20,967	7,068,842

*SOURCE:*

HERS questionnaire, question 12a (7). Installation of separate oil-fired water heater.

#### **OTHER UPGRADES OR REPLACEMENTS**

Code	Classification	Unweighted	Weighted
1	Yes	59	16,734
2	No or Not stated	127	35,102
3	Not applicable	20,967	7,068,842

*SOURCE:*

HERS questionnaire, question 12a (8). Other upgrades or replacements to oil heating equipment.

#### **REPLACEMENT/UPGRADE TO GAS HEATING EQUIPMENT**

Code	Classification	Unweighted	Weighted
1	Yes	177	65,755
2	No	17,979	6,106,567
3	Not stated	11	4,380
4	Not applicable	2,986	943,976

*SOURCE:*

HERS questionnaire, question 13. Principal heating system gas heating equipment - replacements or upgrades.

#### **INSTALLATION OF A GAS BURNER IN EXISTING OIL FURNACE**

Code	Classification	Unweighted	Weighted
1	Yes	8	3,926
2	No or Not stated	169	61,829
3	Not applicable	20,976	7,054,923

*SOURCE:*

HERS questionnaire, question 13a (1). Installation of a gas burner in existing oil furnace.

**INSTALLATION OF A MID-EFFICIENCY GAS-FIRED FURNACE OR BOILER**

Code	Classification	Unweighted	Weighted
1	Yes	44	16,933
2	No or Not stated	133	48,822
3	Not applicable	20,976	7,054,923

*SOURCE:*

HERS questionnaire, question 13a (2). Installation of a mid-efficiency gas-fired furnace.

**INSTALLATION OF A HIGH-EFFICIENCY GAS-FIRED FURNACE OR BOILER**

Code	Classification	Unweighted	Weighted
1	Yes	62	23,777
2	No or Not stated	115	41,978
3	Not applicable	20,976	7,054,923

*SOURCE:*

HERS questionnaire, question 13a (3). Installation of a high-efficiency gas-fired furnace.

**INSTALLATION OF A STANDARD GAS-FIRED WATER HEATER (WITH FAN COIL) USED AS THE MAIN HEATING SOURCE**

Code	Classification	Unweighted	Weighted
1	Yes	3	602
2	No or Not stated	174	65,153
3	Not applicable	20,976	7,054,923

*SOURCE:*

HERS questionnaire, question 13a (4). Installation of a standard gas-fired water heater (with fan coil) used as the main heating source.

**INSTALLATION OF A CONDENSING GAS-FIRED WATER HEATER (WITH FAN COIL)  
USED AS THE MAIN HEATING SOURCE**

Code	Classification	Unweighted	Weighted
1	Yes	6	1,733
2	No or Not stated	171	64,022
3	Not applicable	20,976	7,054,923

*SOURCE:*

HERS questionnaire, question 13a (5). Installation of a condensing gas-fired water heater (with fan coil) used as the main heating source.

**INSTALLATION OF A HIGH-EFFICIENCY COMBINED SPACE AND TAP WATER  
HEATING SYSTEM**

Code	Classification	Unweighted	Weighted
1	Yes	2	1,426
2	No or Not stated	175	64,329
3	Not applicable	20,976	7,054,923

*SOURCE:*

HERS questionnaire, question 13a (6). Installation of a high-efficiency combined space and tap water heating system.

**INSTALLATION OF A STANDARD SEPARATE GAS-FIRED WATER HEATER**

Code	Classification	Unweighted	Weighted
1	Yes	6	4,088
2	No or Not stated	171	61,667
3	Not applicable	20,976	7,054,923

*SOURCE:*

HERS questionnaire, question 13a (7). Installation of a separate gas-fired water heater.



### **INSTALLATION OF A SEPARATE HIGH-EFFICIENCY GAS-FIRED WATER HEATER**

Code	Classification	Unweighted	Weighted
1	Yes	5	2,107
2	No or Not stated	172	63,648
3	Not applicable	20,976	7,054,923

*SOURCE:*

HERS questionnaire, question 13a (8). Installation of a separate high-efficiency gas-fired water heater.

### **OTHER UPGRADES OR REPLACEMENTS**

Code	Classification	Unweighted	Weighted
1	Yes	55	18,853
2	No or Not stated	122	46,902
3	Not applicable	20,976	7,054,923

*SOURCE:*

HERS questionnaire, question 13a (9). Other upgrades or replacements to gas heating equipment.

### **REPLACEMENT/UPGRADE TO ELECTRIC HEATING EQUIPMENT**

Code	Classification	Unweighted	Weighted
1	Yes	93	27,677
2	No	17,230	5,791,695
3	Not stated	18	10,782
4	Not applicable	3,812	1,290,524

*SOURCE:*

HERS questionnaire, question 14. Principal heating system electric heating equipment - replacement or upgrade.

#### **ADDITION OF LOCAL GAS SPACE HEATERS OR GAS BASEBOARDS**

Code	Classification	Unweighted	Weighted
1	Yes	5	1,861
2	No or Not stated	88	25,816
3	Not applicable	21,060	7,093,001

*SOURCE:*

HERS questionnaire, question 14a (1). Addition of local gas space heaters or gas baseboards

#### **ADDITION OF MORE ELECTRIC BASEBOARD HEATERS**

Code	Classification	Unweighted	Weighted
1	Yes	45	13,622
2	No or Not stated	48	14,055
3	Not applicable	21,060	7,093,001

*SOURCE:*

HERS questionnaire, question 14a (2). Addition of more electric baseboard heaters.

#### **ADDITION OF NEW ELECTRIC THERMOSTATS TO BASEBOARD HEATER**

Code	Classification	Unweighted	Weighted
1	Yes	13	3,629
2	No or Not stated	80	24,048
3	Not applicable	21,060	7,093,001

*SOURCE:*

HERS questionnaire, question 14a (3). Addition of new electronic thermostats to baseboard heater.

#### **INSTALLATION OF A NEW ELECTRIC HOT WATER HEATER**

Code	Classification	Unweighted	Weighted
1	Yes	7	2,413
2	No or Not stated	86	25,264
3	Not applicable	21,060	7,093,001

*SOURCE:*

HERS questionnaire, question 14a (4). Installation of a new electric hot water heater.

### **OTHER UPGRADES OR REPLACEMENTS**

Code	Classification	Unweighted	Weighted
1	Yes	33	10,034
2	No or Not stated	60	17,643
3	Not applicable	21,060	7,093,001

*SOURCE:*

HERS questionnaire, question 14a (5). Other upgrades or replacements to electric heating equipment.

### **FEATURES ADDED TO REDUCE ENERGY CONSUMPTION:**

#### ***ADDITION OF HEAT PUMP***

Code	Classification	Unweighted	Weighted
1	Yes	45	19,142
2	No	21,108	7,101,536
3	Not stated	0	0

*SOURCE:*

HERS questionnaire, question 15. Addition of a heat pump.

#### ***ENERGY SAVING FEATURES ADDED***

Code	Classification	Unweighted	Weighted
1	Yes	3,912	1,353,414
2	No or Not stated	17,241	5,767,264

*SOURCE:*

HERS questionnaire, question 16. Addition of energy saving features.

### **PROGRAMMABLE THERMOSTAT**

Code	Classification	Unweighted	Weighted
1	Yes	640	238,842
2	No or Not stated	20,513	6,881,836

*SOURCE:*

HERS questionnaire, question 16 (1). Addition of a programmable thermostat.

### **INSULATION BLANKET AROUND OUTSIDE OF HOT WATER TANK**

Code	Classification	Unweighted	Weighted
1	Yes	384	135,813
2	No or Not stated	20,769	6,984,865

#### *SOURCE:*

HERS questionnaire, question 16 (2). Addition of an insulation blanket around outside of hot water tank.

### **INSULATION AROUND HOT WATER SYSTEM PIPES**

Code	Classification	Unweighted	Weighted
1	Yes	727	241,470
2	No or Not stated	20,426	6,879,208

#### *SOURCE:*

HERS questionnaire, question 16 (3). Addition of insulation around hot water system pipes.

### **INSULATION AROUND AIR DUCTS AND/OR SEALING LEAKY DUCTWORK**

Code	Classification	Unweighted	Weighted
1	Yes	152	46,988
2	No or Not stated	21,001	7,073,690

#### *SOURCE:*

HERS questionnaire, question 16 (4). Addition of insulation around air ducts and/or sealing leaky ductwork.

### **LOW FLOW SHOWER HEADS**

Code	Classification	Unweighted	Weighted
1	Yes	2,064	712,527
2	No or Not stated	19,089	6,408,151

#### *SOURCE:*

HERS questionnaire, question 16 (5). Addition of low flow shower heads.

**ATTACHMENT OF AERATORS TO HOT WATER FAUCETS**

Code	Classification	Unweighted	Weighted
1	Yes	727	265,695
2	No or Not stated	20,426	6,854,983

*SOURCE:*

HERS questionnaire, question 16 (6). Attachment of aerators to hot water faucets.

**FLUORESCENT LIGHTS TO REPLACE CONVENTIONAL LIGHT BULBS**

Code	Classification	Unweighted	Weighted
1	Yes	1,393	496,079
2	No or Not stated	19,760	6,624,599

*SOURCE:*

HERS questionnaire, question 16 (7). Replacement of conventional light bulbs with fluorescent lights.

**FLOOR SPACE INFORMATION:**

**FLOOR SPACE ADDED TO DWELLING**

Code	Classification	Unweighted	Weighted
1	Yes	216	66,468
2	No	20,937	7,054,210

*SOURCE:*

HERS questionnaire, question 17. Addition of floor space.

**SIZE OF FLOOR SPACE ADDED**

Weighted Average

2.88

*SOURCE:*

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

***UNIT OF MEASURE FOR ADDED FLOOR SPACE***

Code	Classification	Unweighted	Weighted
1	Square feet	149	46,974
2	Square metres	0	0
3	Number of rooms	67	19,494
4	Other units	0	0
5	Not stated	0	0
6	Not applicable	20,937	7,054,210

***SOURCE:***

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

**FIREPLACE INFORMATION:**

***ADDITION OF FIREPLACE***

Code	Classification	Unweighted	Weighted
1	Yes	330	111,704
2	No	20,821	7,008,463
3	Not stated	2	511

***SOURCE:***

HERS questionnaire, question 19. Addition of fireplace.

**WOOD BURNING FIREPLACE:**

***ADDITION OF WOOD BURNING FIREPLACE***

Code	Classification	Unweighted	Weighted
1	Yes	184	58,956
2	No or Not stated	146	52,748
3	Not applicable	20,823	7,008,974

***SOURCE:***

HERS questionnaire, question 19a(1). Addition of a wood burning fireplace.

**FEATURES OF A WOOD BURNING FIREPLACE:**

**Masonry (Brick) Fireplace**

Code	Classification	Unweighted	Weighted
1	Yes	111	35,372
2	No or Not stated	219	76,332
3	Not applicable	20,823	7,008,974

*SOURCE:*

HERS questionnaire, question 19b (1). Addition of a masonry (brick) fireplace.

**Prefab Metal Fireplace**

Code	Classification	Unweighted	Weighted
1	Yes	47	14,445
2	No or Not stated	283	97,259
3	Not applicable	20,823	7,008,974

*SOURCE:*

HERS questionnaire, question 19b (2). Addition of a prefab metal fireplace.

**Fireplace Equipped With Glass Doors**

Code	Classification	Unweighted	Weighted
1	Yes	59	19,384
2	No or Not stated	271	92,320
3	Not applicable	20,823	7,008,974

*SOURCE:*

HERS questionnaire, question 19b (3). Addition of a fireplace equipped with glass doors.

**Advanced Combustion, High-Efficiency Fireplace**

Code	Classification	Unweighted	Weighted
1	Yes	33	11,313
2	No or Not stated	297	100,391
3	Not applicable	20,823	7,008,974

*SOURCE:*

HERS questionnaire, question 19b (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	145	52,350
2	No or Not stated	185	59,354
3	Not applicable	20,823	7,008,974

#### ***SOURCE:***

HERS questionnaire, question 19a(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	32	13,023
2	No or Not stated	298	98,681
3	Not applicable	20,823	7,008,974

#### ***SOURCE:***

HERS questionnaire, question 19c (1). Addition of a gas log set in existing fireplace.

### **Natural Draft Gas Fireplace With Glass Doors**

Code	Classification	Unweighted	Weighted
1	Yes	40	15,646
2	No or Not stated	290	96,058
3	Not applicable	20,823	7,008,974

#### ***SOURCE:***

HERS questionnaire, question 19c (2). Addition of a natural draft gas fireplace with glass doors.

### **Power Vented Gas Fireplace With Glass Doors**

Code	Classification	Unweighted	Weighted
1	Yes	22	6,111
2	No or Not stated	308	105,593
3	Not applicable	20,823	7,008,974

*SOURCE:*

HERS questionnaire, question 19c (3). Addition of a power vented gas fireplace with glass doors.

### **Direct Vent Gas Fireplace (High-Efficiency)**

Code	Classification	Unweighted	Weighted
1	Yes	52	18,803
2	No or Not stated	278	92,901
3	Not applicable	20,823	7,008,974

*SOURCE:*

HERS questionnaire, question 19c (4). Addition of a direct vent, high-efficiency gas fireplace.

### **UPGRADES OR ADDITIONS MADE TO FIREPLACE**

Code	Classification	Unweighted	Weighted
1	Yes	179	65,238
2	No	20,969	7,053,106
3	Not stated	5	2,334

*SOURCE:*

HERS questionnaire, question 19d. Upgrades or additions to fireplace.

### **ADDITION OF INSERT TO EXISTING WOOD FIREPLACE**

Code	Classification	Unweighted	Weighted
1	Yes	42	15,883
2	No or Not stated	137	49,355
3	Not applicable	20,974	7,055,440

*SOURCE:*

HERS questionnaire, question 19e (1). Addition of an insert to existing wood burning fireplace.

#### **ADDITION OF GLASS DOORS TO EXISTING FIREPLACE**

Code	Classification	Unweighted	Weighted
1	Yes	33	12,368
2	No or Not stated	146	52,870
3	Not applicable	20,974	7,055,440

*SOURCE:*

HERS questionnaire, question 19e (2). Addition of glass doors to existing fireplace.

#### **INSTALLATION OF A NEW WOOD FIREPLACE WITHOUT INSERT**

Code	Classification	Unweighted	Weighted
1	Yes	2	598
2	No or Not stated	177	64,640
3	Not applicable	20,974	7,055,440

*SOURCE:*

HERS questionnaire, question 19e (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	1,659
2	No or Not stated	174	63,579
3	Not applicable	20,974	7,055,440

*SOURCE:*

HERS questionnaire, question 19e (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	44	17,392
2	No or Not stated	135	47,846
3	Not applicable	20,974	7,055,440

*SOURCE:*

HERS questionnaire, question 19e (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	62	21,069
2	No or Not stated	117	44,169
3	Not applicable	20,974	7,055,440

*SOURCE:*

HERS questionnaire, question 19e (6). Other types of upgrades or additions involving fireplaces.

#### MOTIVATION FOR PERFORMING WORK:

##### WORK DONE ON INSULATION, WINDOWS, DOORS

Code	Classification	Unweighted	Weighted
1	Yes	2,983	952,036
2	No or Not stated	18,170	6,168,642

*SOURCE:*

HERS questionnaire, question 20. Work done on insulation, windows, and doors.

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

###### Maintenance

Code	Classification	Unweighted	Weighted
1	Yes	1,167	352,428
2	No or Not stated or Not applicable	19,986	6,768,250

*SOURCE:*

HERS questionnaire, question 20(1). Reason for work done on insulation, windows or doors: Maintenance.

###### Appearance

Code	Classification	Unweighted	Weighted
1	Yes	861	278,622
2	No or Not stated or Not applicable	20,292	6,842,056

*SOURCE:*

HERS questionnaire, question 20(2). Reason for work done on insulation, windows or doors: Appearance.

### Comfort

Code	Classification	Unweighted	Weighted
1	Yes	1,324	422,202
2	No or Not stated or Not applicable	19,829	6,698,476

#### *SOURCE:*

HERS questionnaire, question 20(3). Reason for work done on insulation, windows or doors: Comfort.

### Energy Savings

Code	Classification	Unweighted	Weighted
1	Yes	2,114	674,211
2	No or Not stated or Not applicable	19,039	6,446,467

#### *SOURCE:*

HERS questionnaire, question 20(4). Reason for work done on insulation, windows, and doors: Energy savings.

### Addition Of Living Space

Code	Classification	Unweighted	Weighted
1	Yes	143	50,924
2	No or Not stated or Not applicable	21,010	7,069,754

#### *SOURCE:*

HERS questionnaire, question 20(5). Reason for work done on insulation, windows, and doors: Addition of living space.

### Resale Value Of Home

Code	Classification	Unweighted	Weighted
1	Yes	390	128,401
2	No or Not stated or Not applicable	20,763	6,992,277

#### *SOURCE:*

HERS questionnaire, question 20(6). Reason for work done on insulation, windows, and doors: Resale value of home.

### **Concern About The Environment**

Code	Classification	Unweighted	Weighted
1	Yes	184	61,539
2	No or Not stated or Not applicable	20,969	7,059,139

#### *SOURCE:*

HERS questionnaire, question 20(7). Reason for work done on insulation, windows, and doors:  
Concern about the environment.

### **CHANGES/ADDITIONS/IMPROVEMENTS TO HEATING OR VENTILATION EQUIPMENT**

Code	Classification	Unweighted	Weighted
1	Yes	4,243	1,466,453
2	No or Not stated	16,910	5,654,225

#### *SOURCE:*

HERS questionnaire, question 21. Changes, additions, and improvements made to heating or ventilation equipment.

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

#### **Maintenance**

Code	Classification	Unweighted	Weighted
1	Yes	1,372	459,403
2	No or Not stated or Not applicable	19,781	6,661,275

#### *SOURCE:*

HERS questionnaire, question 21(1). Reason for changes, additions, and improvements made to heating or ventilation equipment: Maintenance.

### **Comfort**

Code	Classification	Unweighted	Weighted
1	Yes	1,309	452,534
2	No or Not stated or Not applicable	19,844	6,668,144

#### *SOURCE:*

HERS questionnaire, question 21(2). Reason for changes, additions, and improvements made to heating or ventilation equipment: Comfort.

### **Energy Savings**

Code	Classification	Unweighted	Weighted
1	Yes	2,538	895,090
2	No or Not stated or Not applicable	18,615	6,225,588

#### *SOURCE:*

HERS questionnaire, question 21(3). Reason for changes, additions, and improvements made to heating or ventilation equipment: Energy savings.

### **Addition Of Living Space**

Code	Classification	Unweighted	Weighted
1	Yes	137	46,337
2	No or Not stated or Not applicable	21,016	7,074,341

#### *SOURCE:*

HERS questionnaire, question 21(4). Reason for changes, additions, and improvements made to heating or ventilation equipment: Addition of living space.

### **Resale Value Of Home**

Code	Classification	Unweighted	Weighted
1	Yes	272	100,016
2	No or Not stated or Not applicable	20,881	7,020,662

#### *SOURCE:*

HERS questionnaire, question 21(5). Reason for changes, additions, and improvements made to heating or ventilation equipment: Resale value of home.

### **Concern About The Environment**

Code	Classification	Unweighted	Weighted
1	Yes	392	147,079
2	No or Not stated or Not applicable	20,761	6,973,599

#### *SOURCE:*

HERS questionnaire, question 21(6). Reason for changes, additions, and improvements made to heating or ventilation equipment: Concern about the environment.





## **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 1994 HRRS/HERS used four sixths (or approximately 40,000 households) of the March 1995 Labour Force Survey sample. Households who reported that they were homeowners in the February 1995 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 1994. 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 1995, 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 81% 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 1994 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.

