Section D: SPACE HEATING

D-1  FUELHEAT  Now I have some questions about heating your home. INTERVIEWER INSTRUCTION: PLACE SHOW CARD 17 IN FRONT OF THE RESPONDENT. Please look at Card 17. What is the main fuel used for heating your home? That is, which fuel is the one that provides the most heat for your home?

Electricity ....................................................... 05
Natural gas from underground pipes .......... 01
Propane (bottled gas) ................................. 02
Fuel oil .......................................................... 03
Kerosene ....................................................... 04
Wood ............................................................. 07
Solar ............................................................. 08
District Steam ............................................. 09
Some other fuel (Specify __________) ......... 21
Don’t heat home ......................................... 99

D-1a  [FUELHEAT=99] DNTHEAT Just to clarify, is it that you have heating equipment but don’t use it, or does your home not have any heating equipment?

Have equipment, but don’t use it ................. 1
Don’t have any heating equipment ............... 2 → GO TO QUESTION E-1

D-1a1  [If DNTHEAT=1] FUELNOTHEAT INTERVIEWER INSTRUCTION: PLACE SHOW CARD 17 IN FRONT OF THE RESPONDENT. Please look at Card 17. Even though you don’t use your heating equipment, we are still interested in the fuel it uses. What is the main fuel used for running your heating equipment?

Electricity ......................................................... 05
Natural gas from underground pipes .......... 01
Propane (bottled gas) ................................. 02
Fuel oil .......................................................... 03
Kerosene ....................................................... 04
Wood ............................................................. 07
Solar ............................................................. 08
District steam .............................................. 09
Some other fuel (Specify __________) .......... 21

D-2  EQUIPM  [If FUELHEAT<>99] INTERVIEWER INSTRUCTION: PLACE SHOW CARD 18 IN FRONT OF THE RESPONDENT. Please look at Card 18. Please tell me which type of heating equipment provides most of the heat for your home. [If DNTHEAT=1] Again, even though you don’t use your heating equipment, we are still interested in what kind of equipment you have in your home.

Heat pump .......................................................................................... 04
Central warm-air furnace with ducts to individual rooms other than a heat pump .................. 03
Steam/Hot water system with radiators/convectors in each room or pipes in the floor or walls . 02
Built-in electric units in each room installed in walls, ceiling, baseboard, or floor.................... 05
Built-in floor/wall pipeless furnace ................................................................. 06
Built-in room heater burning gas, oil, or kerosene ......................................................... 07
Heating stove burning wood, coal, or coke ........................................................................ 08
Portable electric heaters ......................................................................................... 10
Portable kerosene heaters ....................................................................................... 11
Fireplace ........................................................................................................... 09
Cooking stove that is used to heat your home as well as to cook ........................................ 12
Some other equipment (Specify __________________) .............................................. 21
No heating equipment used ................................................................................. 00
D-3 EQUIPAGE INTERVIEWER INSTRUCTION: PLACE SHOW CARD 1 IN FRONT OF THE RESPONDENT. Please look at Card 1. Approximately, how old is your household's [NAME THE EQUIPMENT IDENTIFIED IN EQUIPM] heating system?

Less than 2 years old ....................... 01
2 to 4 years old ............................... 02
5 to 9 years old ................................ 03
10 to 19 years old ............................ 04
20 years or older ............................. 05
As old as the home (if volunteered) .... 06

D-4 [IF DNTHEAT=1, GO TO QUESTION E-1] HEATOTH Does the main space heating system for your home also heat any other apartments, condos, households, businesses, or farm buildings?

Yes........................................... 1
No ............................................. 0

D-5 EQUIPAUX In addition to the [NAME THE EQUIPMENT IDENTIFIED IN EQUIPM], do you use any other types of equipment to heat your home, even only once in a while?

Yes ........................................... 1
No ............................................. 0

D-5a [IF EQUIPAUX=Yes] INTERVIEWER INSTRUCTION: PLACE SHOW CARD 18 IN FRONT OF THE RESPONDENT. Please look at Card 18. Please tell me which types you occasionally use to provide heat in addition to the [NAME THE EQUIPMENT IDENTIFIED IN EQUIPM]. (Mark all that apply.) PROBE, IF NECESSARY: Are there any other types of equipment that you use to heat your home?

REVERSE Heat pump................................................................. 04
WARMAIR Central warm-air furnace with ducts to individual rooms
other than a heat pump.............................................................. 03
STEAMR Steam/hot water system with radiators/convectors
in each room or pipes in the floor or walls ............................... 02
PERMELEC Built-in electric units in the walls, ceiling, baseboards, or floors .... 05
PIPELESS Built-in floor/wall pipeless furnace ............................ 06
ROOMHEAT Built-in room heater burning gas, oil, or kerosene .... 07
WOODKLN Heating stove burning wood, coal, or coke ............. 08
CARRYEL Portable electric Heaters .......................................... 10
CARRYKER Portable kerosene Heaters ...................................... 11
CHIMNEY Fireplace .................................................................. 09
RANGE Cooking stove used to heat your home as well as to cook ........................................ 12
DIFEQUIP Some other equipment
(Specify ____________________________) ......................................... 21
DKEQUIP Don't Know ..................................................................... 96

D-5a1 [IF WARMAIR or STEAMR or DIFEQUIP=Yes] FURNFUEL RADFUEL DIFFUEL ELECAUX UGASAUX LPGAUX FOILAUX KEROAUX WOODAUX SOLARAUX OTHERAUX DKAUX What fuel does the [ENTER THE NAME OF THE SUPPLEMENTAL CENTRAL HEATING EQUIPMENT] use?

Electricity ................................................................. 05
Natural gas from underground pipes ......................... 01
Propane (bottled gas) ............................................... 02
Fuel oil ........................................................................ 03
Kerosene ................................................................... 04
Wood ....................................................................... 07
Solar ........................................................................ 08
D-5a2  [If PIPELESS=Yes] PIPEFUEL ELECAUX UGASAUX LPGAUX FOILAUX KEROAUX WOODAUX OTHERAUX DKAUX What fuel does the pipeless furnace use?

- Electricity .......................................................... 05
- Natural gas from underground pipes ................... 01
- Propane (bottled gas) ........................................... 02
- Fuel oil .............................................................. 03
- Kerosene ............................................................ 04
- Wood ................................................................. 07
- Some other fuel (Specify ____________) .............. 21

D-5a3  [If ROOMHEAT=Yes] RMHTFUEL UGASAUX LPGAUX FOILAUX KEROAUX DKAUX What fuel does the room heater use?

- Natural gas from underground pipes ................... 01
- Propane (bottled gas) ........................................... 02
- Fuel oil .............................................................. 03
- Kerosene ............................................................ 04
- Wood ................................................................. 07
- Some other fuel (Specify ____________) .............. 21

D-5a4  [If WOODKILN=Yes] HSFUEL WOODAUX OTHERAUX DKAUX What fuel does the heating stove use?

- Wood ................................................................. 07
- Some other fuel (Specify ____________) .............. 21

D-5a5  [If CHIMNEY=Yes] FPFUEL UGASAUX LPGAUX WOODAUX OTHERAUX DKAUX What fuel does the fireplace use?

- Wood ................................................................. 07
- Natural gas from underground pipes ................... 01
- Propane (bottled gas) ........................................... 02
- Some other fuel (Specify ____________) .............. 21

D-5a5a [If FPFUEL=01 or 02] NGFPFLUE Does this fireplace have a flue to the outside or is it entirely self-contained?

- Flue to the outside ........................................... 1
- Flueless (self-contained) .................................. 2

D-5a5b [If FPFUEL=01 or 02] USENGFP During the winter months how frequently do you use your gas fireplace? Do you use it . . .

- Most days, ...................................................... 1
- About once a week, or ...................................... 2
- Fewer than 4 times each month? ...................... 3

D-5a6  [If RANGE=Yes] RNGFUEL ELECAUX UGASAUX LPGAUX FOILAUX KEROAUX WOODAUX OTHERAUX DKAUX What fuel does the cooking stove use?

- Electricity .......................................................... 05
- Natural gas from underground pipes ................... 01
- Propane (bottled gas) ........................................... 02
- Fuel oil .............................................................. 03
- Kerosene ............................................................ 04
- Wood ................................................................. 07
- Other (Specify ____________) ............................ 21
D-6  [If EQUIPAUX=Yes]  

EQMAMT  Thinking about your main heating equipment, the [ENTER THE TYPE OF HEATING EQUIPMENT NAMED IN EQUIPM] that uses [ENTER THE TYPE OF THE MAIN HEATING FUEL NAMED IN FUELHEAT], how much of the heat for your home would you say that this heating equipment provides . . .

- Almost all, ................................................................. 1
- About three-fourths, or ............................................. 2
- Closer to half of all your heat? ................................. 3

D-7  

THERMAIN  INTERVIEWER INSTRUCTION: PLACE SHOW CARD 19 IN FRONT OF THE RESPONDENT. Please look at Card 19. Do you have a thermostat that controls your main [ENTER THE NAME OF THE MAIN HEATING SYSTEM] heating equipment and allows you to set the system to a specific temperature during the heating season?

INTERVIEWER INSTRUCTION: IF NEEDED, ADD: A thermostat is a device that automatically responds to temperature changes and turns the heat on or off until the desired temperature is reached.

- Yes.......................................... 1
- No ........................................... 0

D-7a  [If THERMAIN=Yes]  OTHTHERM  In addition to the thermostat that controls your main heating equipment do you have any other thermostats?

- Yes.......................................... 1
- No ........................................... 0

D-7a1  [If OTHTHERM=Yes]  NUMTHERM  How many other thermostats do you have in your home?

Enter the number ........................................

D-7b  [If THERMAIN=Yes]  PROTHERM  Is the thermostat that controls your main heating equipment programmable? That is, can you set it so that the temperature setting automatically changes at the different times of the day or night and days of the week?

- Yes.......................................... 1
- No ........................................... 0

D-7b1a  [If PROTHERM=Yes]  AUTOHEATNITE  Is this thermostat programmed to automatically lower the heating temperature setting at night during sleeping hours?

- Yes.......................................... 1
- No ........................................... 0

D-7b1b  [If PROTHERM=Yes]  AUTOHEATDAY  Is this thermostat programmed to automatically lower the heating temperature setting during the day when no one is at home?

- Yes.......................................... 1
- No ........................................... 0

D-8  

At what temperature does your household usually keep your home in the winter?

D-8a  TEMPHOME During the day in the winter when someone is home?

<table>
<thead>
<tr>
<th>Enter degrees Fahrenheit</th>
<th>Heat Turned Off</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>95</td>
</tr>
</tbody>
</table>

D-8b  TEMPGONE During the day in the winter when no one is home?

<table>
<thead>
<tr>
<th>Enter degrees Fahrenheit</th>
<th>Heat Turned Off</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>95</td>
</tr>
</tbody>
</table>

D-8c  TEMPNITE During sleeping hours in the winter?

<table>
<thead>
<tr>
<th>Enter degrees Fahrenheit</th>
<th>Heat Turned Off</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>95</td>
</tr>
</tbody>
</table>

D-8d  [If TEMPHOME and TEMPGONE and TEMPNITE all = 95] HEATOFF Earlier you told me that the [ENTER THE MAIN HEATING EQUIPMENT] that uses [ENTER THE MAIN HEATING FUEL] provides [IF EQUIPAUX=YES, ENTER THE RESPONSE FROM EQMAMT] heat for your home. During the winter how much do you use the [ENTER MAIN HEATING EQUIPMENT] in your home? Is it . . .

Turned off all the time, ..................................................0
Turned on only a few days or nights when really needed, .... 1
Turned on quite a bit, or is it ........................................ 2
Turned on just about all winter? .....................................3

D-9  HEATROOM Earlier, we determined that you have [ENTER THE NUMBER OF BEDROOMS AND OTHER ROOMS] in your home. Last winter, did you heat all of those rooms?

Yes........................................ 1
No ....................................... 0

D-9a  [If HEATROOM=No] HEATNOT How many of those rooms were not heated last winter?

Enter the Number .................

D-9b  OTHNOHT Were there any other spaces in your home that were not heated last winter? Do not include garages, basements, or attics.

Yes........................................ 1
No ....................................... 0

D-9b1  OTHSPACE Please describe for me what those spaces were.

_______________________________________________________________________
_______________________________________________________________________
_______________________________________________________________________

D-10 IVCOMMD INTERVIEWER INSTRUCTION: RECORD ANY INFORMATION HERE ABOUT THE SPACE
HEATING EQUIPMENT IN THIS HOUSING UNIT AND ITS’ USAGE THAT MIGHT PROVIDE CLARIFICATION TO THE RESPONDENT’S ANSWERS.

_________________________________________________________________ ____________________

_________________________________________________________________ ____________________

_________________________________________________________________ ____________________