

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] FUELNOHEAT **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
- WOODKILN* 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

Other (Specify _____) 21
D-5a2 [If PIPELESS=Yes] *PIPEFUEL ELECAUX UGASAU*X *LPGAUX FOILAU*X *KEROU*X
*WOODAU*X *OTHERAU*X *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 UGASAU*X *LPGAUX FOILAU*X *KEROU*X *DKAUX* **What fuel does the room heater use?**

Natural gas from underground pipes 01
Propane (bottled gas) 02
Fuel oil 03
Kerosene 04

D-5a4 [If WOODKILN=Yes] *HSFUEL WOODAU*X *OTHERAU*X *DKAUX* **What fuel does the heating stove use?**

Wood 07
Some other fuel (Specify _____) 21

D-5a5 [If CHIMNEY=Yes] *FPFUEL UGASAU*X *LPGAUX WOODAU*X *OTHERAU*X *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 UGASAU*X *LPGAUX FOILAU*X *KEROU*X
*WOODAU*X *OTHERAU*X *DKAUX* **What fuel does the cooking stove use?**

Electricity05
Natural gas from underground pipes01
Propane (bottled gas)02
Fuel oil03
Kerosene04
Wood07
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*?

INTERVIEWER INSTRUCTION: IF THE HOUSEHOLD KEEPS DIFFERENT PARTS OF THE HOUSE AT DIFFERENT TEMPERATURES, RECORD THE TEMPERATURE IN THAT PART OF THE HOUSE WHERE THE PEOPLE ARE. IF, FOR EXAMPLE, THE HEAT IS TURNED OFF UPSTAIRS DURING THE DAY BECAUSE THE FAMILY IS DOWNSTAIRS, RECORD THE DOWNSTAIRS TEMPERATURE. IF THE RESPONDENT DOESN'T KNOW THE TEMPERATURE, BUT KNOWS THE THERMOSTAT SETTING, RECORD THE THERMOSTAT SETTING. OTHERWISE, PROBE FOR THE BEST ESTIMATE.

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

Enter degrees Fahrenheit
Heat Turned Off 95

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

Enter degrees Fahrenheit
Heat Turned Off 95

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

Enter degrees Fahrenheit
Heat Turned Off 95

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.
