

## Section D: SPACE HEATING

D-1 **FUELHEAT** Now I have some questions about heating your home. Please look at the Blue Card. 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
Bottled gas, that is, LPG or Propane.....	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 [If Don't heat home] 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

D-1a1 [If Have equipment] **FUELHEAT** Please look at the Blue Card. 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
Bottled gas, that is, LPG or Propane .....	02
Fuel oil.....	03
Kerosene.....	04
Wood.....	07
Solar.....	08
Some other fuel (Specify _____) .....	21

D-2 **EQUIPM** Please look at Exhibit D-2. Please tell me which type of heating equipment provides most of the heat for 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, or baseboard.....	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
Equipment not listed (Specify _____) .....	21
No heating equipment used .....	00

D-3 **EQUIPAGE Please look at the Yellow Card. Approximately, how old is your household's (name the equipment identified in D-2) 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
- Don't know ..... 96

D-4 **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 D-2), do you use any other types of equipment to heat your home, even only once in a while?**

- Yes ..... 1
- No..... 0
- Don't know ..... 6

D-5a **[If Yes] Please look at Exhibit D-2. Please tell me which types you occasionally use to provide heat in addition to the (name the equipment identified in D-2). Prompt: Is there any other heating equipment you use? [Record all that are used.]**

- 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, or baseboards ..... 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 (type) use?**

Electricity ..... 05  
Natural gas from underground pipes ..... 01  
Bottled gas (LPG or Propane) ..... 02  
Fuel oil..... 03  
Kerosene..... 04  
Wood..... 07  
Solar..... 08  
Other (Specify \_\_\_\_\_) ..... 21  
Don't know ..... 96

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  
Bottled gas (LPG or Propane)..... 02  
Fuel oil..... 03  
Kerosene..... 04  
Wood..... 07  
Some other fuel (Specify \_\_\_\_\_) ..... 21  
Don't know ..... 96

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

Natural gas from underground pipes ..... 01  
Bottled gas (LPG or Propane)..... 02  
Fuel oil..... 03  
Kerosene..... 04  
Don't know ..... 96

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

Wood..... 07  
Some other fuel (Specify \_\_\_\_\_) ..... 21  
Don't know ..... 96

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  
Bottled gas (LPG or Propane)..... 02  
Some other fuel (Specify \_\_\_\_\_) ..... 21  
Don't know ..... 96

D-5a5a [If Natural gas or Bottled gas] *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 Natural gas or Bottled gas] *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] *RNGGUEL ELECAUX UGASAUX LPGAUX FOILAUX KEROAUX WOODAUX OTHERAUX DKAUX* **What fuel does the cooking stove use?**

Electricity..... 05  
Natural gas from underground pipes ..... 01  
Bottled gas (LPG or Propane)..... 02  
Fuel oil..... 03  
Kerosene..... 04  
Wood..... 07  
Other (Specify \_\_\_\_\_) ..... 21  
Don't know ..... 96

D-6 [If D-5 = Yes] *EQMAMT* **Thinking about your main heating equipment, the (name the equipment identified in D-2) that uses (main heating fuel identified in D-1), 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  
Don't know ..... 6

D-7 [If FUELHEAT = Solar or SOLARAU = 1] *ACTSOLAR* **Does your solar heating system *require* pumps or fans (other than ceiling fans) to circulate warm air or hot fluids between solar collectors and the rooms they heat?**

Yes ..... 1  
No..... 0  
Don't know ..... 6

D-8 *THERMAIN* **Please look at Exhibit D-8. Do you have a thermostat that controls your main (insert name of main heating system) heating equipment and allows you to set the system to a specific temperature during the heating season? [Interviewer: If needed, add: A thermostat automatically responds to temperature changes and turns the heat on or off until the desired temperature is reached.]**

Yes ..... 1  
No..... 0  
Don't know ..... 6

D-8a [If Yes] *PROTHERM* Is that thermostat programmable? That is, can you set it so that the temperature setting automatically changes at the times of the day or night that you choose?

- Yes..... 1
- No..... 0
- Don't know ..... 6

D-9 At what temperature does your household usually keep your home in the winter?

[Interviewer: If household keeps different parts of the house at different temperatures, record the temperature in the 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-9a *TEMPHOME* During the day when someone is home?

Enter degrees Fahrenheit .....   
Heat Turned Off ..... 95

D-9b *TEMPGONE* During the day when no one is home?

Enter degrees Fahrenheit .....   
Heat Turned Off ..... 95

D-9c *TEMPNITE* During sleeping hours?

Enter degrees Fahrenheit .....   
Heat Turned Off ..... 95

D-10 *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-10a [If No] *HEATNOT* How many of those rooms were not heated last winter?

Enter the Number.....

D-10b *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-10b1 *OTHSPACE* Please describe for me what those spaces were.

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## Section E: WATER HEATING

E-1 **FUELH2O** Please look at the Blue Card. Which fuel do you use the most to heat water for washing or bathing?

Electricity.....	05	
Natural gas from underground pipes .....	01	
Bottled gas, that is, LPG or Propane.....	02	
Fuel oil.....	03	
Kerosene.....	04	
Wood.....	07	
Solar.....	08	
District Steam.....	09	
Some other fuel (Specify _____) .....	21	
Don't know .....	96	
Don't use hot water .....	95	→ SKIP to F-1

E-2 **WHEATOTH** Does the main equipment for heating water for your home also heat water for any other apartments, condos, households, businesses, or farm buildings?

Yes.....	1	
No.....	0	
Don't know .....	6	

E-3 **WHEATSIZ** Please look at Exhibit E-3. Please tell me the approximate size of your household's main water heater tank.

Small (30 gallons or less).....	1	
Medium (31 to 49 gallons).....	2	
Large (50 gallons or more).....	3	
Two separate water heaters.....	5	
Don't have a separate water heater .....	0	→ SKIP to F-1
Don't know .....	6	

E-4 **WHEATAGE** Please look at the Yellow Card. Approximately, how old is your household's main water heater?

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	
Don't know .....	96	

E-5 **UAUXH2OF** In addition to (name of fuel from E-1) does your household use any other fuel for heating water?

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