

**U.S. Department of Energy  
Energy Information Administration**

**1997 Residential Energy Consumption Survey  
Household Questionnaire**

**Section D: SPACE HEATING**

D-1 **FUELHEAT** Now I have some questions about the types of equipment and fuels you use to heat 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
- Some other fuel? (Specify \_\_\_\_\_) . . . . . 21
- Don't heat home . . . . . 99

[If Don't heat home] **DNTHEAT** It's unusual not to heat a home at all. 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

[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 or convectors in each room or pipes in the floor	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

[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 or convectors in each room or pipes in the floor/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 type of equipment (Specify _____)	21
DKEQUIP Don't Know	96

[If WARMAIR or STEAMR or DIFEQUIP = Yes] *ELECAUX UGASAU*X LPGAU X FOILAU X KEROAU X WOODAU X SOLARAU X OTHERAU X DKAU X **What fuel does the** (type of equipment) **of heating equipment 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

[If PIPELESS = Yes] *ELECAUX UGASAU*X LPGAU X FOILAU X KEROAU X WOODAU X OTHERAU X DKAU X **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

[If ROOMHEAT = Yes] *UGASAU*X LPGAU X FOILAU X KEROAU X DKAU X **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

[If WOODKILN = Yes] WOODAUX OTHERAUX DKAUX **What fuel does the heating stove use?**

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

[If CHIMNEY = Yes] 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

[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

[If Natural gas or Bottled gas] USENGFP **During the winter months how frequently do you use your gas fireplace? Do you use it . . .**

<b>Most days,</b> . . . . .	1
<b>About once a week, or</b> . . . . .	2
<b>Fewer than 4 times each month?</b> . . . . .	3

[If RANGE = Yes] 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-4 = 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 ask] 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

[If Yes] SETBACK Is that thermostat either an automatic set-back or clock thermostat?

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

[If Yes] AUTOHEAT Have you actually programmed the thermostat or do you use its' manual features to control the temperature setting?

- The thermostat is programed . . . . . 1
- Use the manual features . . . . . 2

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

[Interviewer: If respondent 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.]

a. TEMPHOME During the day when someone is home?

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

b. TEMPGONE During the day when no one is home?

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

c. *TEMPNITE* **During sleeping hours?**

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

D-10 **HEATROOMS** **Of the** (enter the number from A-9c and A-9d) **rooms in your home, were there any that were not heated last winter?**

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

[If No] **HEATNOT** **How many rooms were not heated last winter?**

Enter the number . . . . .