

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

**1997 Residential Energy Consumption Survey  
Household Questionnaire**

**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
- Some other fuel (Specify \_\_\_\_\_) ..... 21
- Don't know ..... 96
- Don't use hot water ..... 99 ---> 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
- 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 or ..... 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

[If Yes] FAUXH2O **Please look at the Blue Card. What is this additional water heating fuel?**

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

E-6 **SHOWERS Please look at Exhibit E-6. Because bathing and showering affect how much energy a household uses to heat water, can you give me an estimate of how many baths and showers are taken by all the members of your household during a typical week?**

Fewer than 10 ..... 1  
10-20 ..... 2  
More than 20 ..... 3  
Don't Know ..... 6

## Section F: AIR CONDITIONING

F-1 **AIRCOND** Now I have some questions about air-conditioning. Do you use air conditioning in your home?

Yes ..... 1  
No ..... 0 ----> SKIP to F-12

F-2 **COOLMAIN COOLUNIT** What kind of air-conditioning equipment does your household have? Is it . . . .

**A central system,** ..... 1  
**Individual units in the windows or wall, or** . 2  
**Both central and individual units** ..... 3  
Don't know ..... 6

[If "A central system" or "Both central and individual units" and EQUIPM <> Heat pump or Central warm-air furnace] **DUCTS** Central air-conditioning requires that the system have ducts to carry the cooled air to the individual rooms. These ducts may also carry warm air for space heating. Does your home have ducts like these?"

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

F-3 **ACHOUSE** [If respondent lived here last summer, ask] Last summer did your household's air-conditioning equipment cool . . .

**All the rooms in your house/apartment or** ..... 1  
**Only some of the rooms?** ..... 2  
None of the rooms are cooled ..... 3  
Did not live here last summer ..... 0

[If "Only some of the rooms"] **ACROOMS** Of the (enter the number from A-9c and A-9d) rooms in your home, how many were cooled by your household's air-conditioning last summer?

Enter the number .....

F-4 **FUELCOOL** [If F-2 = "A central system" or "Both central and individual units"; Else Skip to F-7] Does your central air-conditioner run on electricity or is it one of the few that uses natural gas or bottled gas?

Electricity ..... 05  
Natural Gas from underground pipes ..... 01  
Bottled Gas (LPG/Propane) ..... 02  
Don't know ..... 96

[If Electricity] **CENACHP** Is your central air-conditioning system a heat pump?

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

F-5 **AGECENAC** Please look at the Yellow Card. Approximately, how old is your household's central air-conditioning equipment?

- 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

F-6 **USECENAC** Please look at Exhibit F-6. Which of the statements shown best describes the way your household used the central air-condition system last summer?

- Not used at all . . . . . 0
- Turned on only a few days or nights  
when really needed . . . . . 1
- Turned on quite a bit . . . . . 2
- Turned on just about all summer . . . . 3
- Not here last summer . . . . . 4
- Other . . . . . 5
- Don't know . . . . . 6

[If USECENAC= 2 or 3 and D-8, SETBACK=Yes] **AUTOCOOL** Earlier you told me that you have an automatic set-back or clock thermostat. Do you use the programming features of that thermostat to control the temperature setting of your central air-conditioner or do you use its' manual controls?

- Use the programming features . . . . . 1
- Use the manual controls . . . . . 2
- Use separate thermostat for AC . . . . . 3
- Set-back thermostat used only  
for heating (If volunteered) . . . . . 4

F-7 **ACOTHERS** Does the central air conditioning equipment that cools your home also cool any other apartments, condos, households, businesses, or farm buildings?

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

F-8 [If F-2 is "Individual units in the windows or wall" or "Both central and individual units"; Otherwise SKIP to F-12] **NUMBERAC** How many window or wall air-conditioning units do you have in your home?

Enter the number . . . . .

F-9 **ANYWWHP** Are any of these window/wall units a heat pump?

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

[if Yes] **WWHTPUMP** How many of these units are heat pumps?

Enter the number .....

**F-10 WWACAGE Please look at the Yellow Card. Approximately, how old is your household's MOST-USED window/wall unit?**

- 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

**F-11 USEWWAC Please look at Exhibit F-6. Which of the statements shown best describes the way your household used the (most used) wall or window unit air-conditioner last summer?**

- Not used at all ..... 0
- Turned on only a few days or nights  
when really needed ..... 1
- Turned on quite a bit ..... 2
- Turned on just about all summer ..... 3
- Not here last summer ..... 4
- Other ..... 5
- Don't know ..... 6

**F-12 TREESHAD Does your home have any large trees that shade your home from the afternoon summer sun?**

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

## Section G: MISCELLANEOUS

G-1 **LGT12** Thinking of a typical November weekday, how many indoor lights are turned on for more than 12 hours each day in your home?

Enter the number .....

G-2 **OUTLGTNT** Are any outdoor lights left on all night?

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

[If Yes] **GASLIGHT** Do any of these lights use natural gas?

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

G-3 **SLDDRS** Does your home have any sliding glass doors that go from a heated area to the outside or to an unheated area?

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

[If Yes] **DOOR1SUM** How many of these sliding glass doors does your home have?  
[Interviewer: Count each pair of sliding glass doors as one door.]

Enter the number .....

G-4 **WINDOWS** Please look at Exhibit G-4. Approximately, how many windows does your home have? Each window that opens separately should be counted as one window. Leave out of your count any windows that are in unheated parts of your home.

1 or 2 ..... 01  
3 to 5 ..... 02  
6 to 9 ..... 03  
10 to 19 ..... 04  
20 to 29 ..... 05  
More than 30 ..... 06  
None (volunteered) .. 00

[Interviewer: If asked, double hung or slider windows count as one window. Each window that opens separately should be counted as one window. Also count windows that are fixed in place. Do not include windows (glass panels) in doors.]

G-5 **ADQINSUL** Overall, would you say that your home is . . . . .

**Well insulated,** ..... 1  
**Adequately insulated, or** ... 2  
**Poorly insulated?** ..... 3  
No insulation (if volunteered) . 4  
Don't know ..... 6