

Section E: WATER HEATING

E-1 NUMH2OHTRS **Do you have more than one water heater in your home?**

Yes..... 1
No 0
Don't use hot water 3 → GO TO QUESTION F-1

INTERVIEWER INSTRUCTION: IF NUMH2OHTRS=Yes READ THIS INTRODUCTION: First I would like to ask some questions about the water heater that provides *most of the hot water* you use in your home.

E-2 FUELH2O **INTERVIEWER INSTRUCTION: PLACE SHOW CARD 17 IN FRONT OF THE RESPONDENT. Please look at Card 17. Which fuel do you use the most to heat water for washing or bathing?**

Electricity 05
Natural gas from underground pipes 01
Propane (bottled gas) 02
Fuel oil 03
Kerosene 04
Wood 07
Solar 08
Some other fuel (Specify _____) 21
Don't use hot water 95 → GO TO QUESTION F-1

E-2a 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

E-2b WHEATSIZ **INTERVIEWER INSTRUCTION: PLACE SHOW CARD 20 IN FRONT OF THE RESPONDENT. Please look at Card 20. Please tell me the approximate size of your household's main water heater tank.**

Small (30 gallons or less) 01
Medium (31 to 49 gallons) 02
Large (50 gallons or more) 03
Have a tankless water heater 06
Don't have a separate water heater.... 00 → GO TO QUESTION F-1

E-2c WHEATAGE **INTERVIEWER INSTRUCTION: PLACE SHOW CARD 1 IN FRONT OF THE RESPONDENT. Please look at Card 1. Approximately, how old is your household's main water heater?**

No separate water heater 00
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 use hot water 99

E-3 [IF NUMH2OHTRS=Yes. OTHERWISE, GO TO QUESTION E-4] **FUELH2O2 INTERVIEWER INSTRUCTION: PLACE SHOW CARD 17 IN FRONT OF THE RESPONDENT. Please look at Card 17. Which fuel does your second water heater use the most to heat water for washing or bathing?**

- Electricity 05
- Natural gas from underground pipes 01
- Propane (bottled gas) 02
- Fuel oil 03
- Kerosene 04
- Wood 07
- Solar 08
- Some other fuel (Specify _____) 21

E-3a **WHEATSIZE2 INTERVIEWER INSTRUCTION: PLACE SHOW CARD 20 IN FRONT OF THE RESPONDENT. Please look at Card 20. Please tell me the approximate size of your second water heater's tank.**

- Small (30 gallons or less) 01
- Medium (31 to 49 gallons) 02
- Large (50 gallons or more) 03
- Have a tankless water heater 06

E-3b **WHEATAGE2 INTERVIEWER INSTRUCTION: PLACE SHOW CARD 1 IN FRONT OF THE RESPONDENT. Please look at Card 1. Approximately, how old is your second 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

E-4 **WATERWAIT Thinking about the most frequently used shower in your home, how long do you have to wait for hot water? Do you have to wait . . .**

- Less than 10 seconds, 1**
- 10 to 30 seconds, 2**
- 30 to 60 seconds, 3**
- 1 to 2 minutes, or 4**
- More than 2 minutes? 5**
- Don't have a shower 6**
- Don't use hot water 9**

E-5 **IVCOMME INTERVIEWER INSTRUCTION: RECORD ANY INFORMATION HERE ABOUT THE WATER HEATING EQUIPMENT IN THIS HOUSING UNIT AND ITS' USAGE THAT MIGHT PROVIDE CLARIFICATION TO THE RESPONDENT'S ANSWERS.**

Section F: AIR CONDITIONING

F-1 **AIRCOND** Do you have air conditioning equipment in your home?

Yes..... 1
No 0 → GO TO QUESTION F-13

F-2 **COOLTYPE** What kind of air-conditioning equipment does your home have? Is it

A central system, 1
Individual units in the windows or wall, or 2
Both central and individual units? 3

F-2a [If COOLTYPE=1 or 3 and EQUIPM <> 03 OR 04] **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

F-3 If COOLTYPE=1 or 3; OTHERWISE GO TO QUESTION F-10] **ACHOUSE** [IF THE INTERVIEW DATE IS BEFORE SEPTEMBER 1: Thinking about this summer, does; IF THE INTERVIEW DATE IS AFTER AUGUST 31: Thinking about the summer of 2005, did] the central air-conditioning system in your home cool all of the rooms or only some of the rooms in your home?

All of the rooms..... 1
Only some of the rooms..... 2
None of the rooms cooled..... 0

F-3a [If ACHOUSE=2] **ACROOMS** Of the [ENTER THE NUMBER OF BEDROOMS AND OTHER ROOMS] rooms in your home, how many [IF THE INTERVIEW DATE IS BEFORE SEPTEMBER 1: are being cooled by your central air-conditioning system this summer?; IF THE INTERVIEW DATE IS AFTER AUGUST 31; were cooled by your central air-conditioning system during the summer of 2005?]

Enter the number

F-4 **CENACHP** Is your central air-conditioning system a heat pump?

Yes..... 1
No 0

F-5 **AGECENAC** INTERVIEWER INSTRUCTION: PLACE SHOW CARD 1 IN FRONT OF THE RESPONDENT. Please look at Card 1. Approximately, how old is the central air-conditioning equipment in your home?

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

F-6 **USECENAC** INTERVIEWER INSTRUCTION: PLACE SHOW CARD 21 IN FRONT OF THE RESPONDENT. Please look at Card 21. Which of the statements shown best describes the way your household [IF THE INTERVIEW DATE IS BEFORE SEPTEMBER 1: uses the central air-conditioning system this summer? IF THE INTERVIEW DATE IS AFTER AUGUST 31: used the central air-conditioning system during the summer of 2005?]

- 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

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

F-8 **THERMAINAC** INTERVIEWER INSTRUCTION: PLACE SHOW CARD 19 IN FRONT OF THE RESPONDENT. Please look at Card 19. Do you have a thermostat that controls your air-conditioning equipment and allows you to set the system to a specific temperature during the cooling season?

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

- Yes..... 1
- No 0

F-8a [If THERMAINAC=Yes] **PROTHERMAC** Is the thermostat that controls your air conditioning equipment programmable? That is, can you set it so that the temperature setting automatically changes at different times of the day or night and days of the week?

- Yes..... 1
- No 0

F-8a1 [If PROTHERMAC=Yes] **AUTOCOOLNITE** Is this thermostat programmed to automatically adjust the cooling temperature setting *at night* during sleeping hours?

- Yes..... 1
- No 0

F-8a2 [If PROTHERMAC=Yes] **AUTOCOOLDAY** Is this thermostat programmed to automatically adjust the cooling temperature setting *during the day* when no one is at home?

- Yes..... 1
- No 0

F-9 [USECENAC=2 or 3] **At what temperature does your household *usually* keep your home in the *summer*?**

INTERVIEWER INSTRUCTION: IF THE HOUSEHOLD KEEPS DIFFERENT PARTS OF THE HOUSE AT DIFFERENT TEMPERATURES, RECORD THE TEMPERATURE IN THE PART OF THE HOME WHERE THE PEOPLE ARE. IF, FOR EXPAMPLE, THE AIR-CONDITIONING 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.

F-9a **TEMPHOMEAC During the *day* in the summer when *someone* is home?**

Enter degrees Fahrenheit.....
Air-conditioner Turned Off 95

F-9b **TEMPGONEAC During the *day* in the summer when *no one* is home?**

Enter degrees Fahrenheit.....
Air-conditioner Turned Off 95

F-9c **TEMPNITEAC During *sleeping hours* in the summer?**

Enter degrees Fahrenheit.....
Air-conditioner Turned Off 95

F-10 [If COOLTYPE=2 or 3; **OTHERWISE, GO TO F-13**] **NUMBERAC How many window or wall air-conditioning units do you have in your home?**

Enter the number

F-11 **WWACAGE INTERVIEWER INSTRUCTION: PLACE SHOW CARD 1 IN FRONT OF THE RESPONDENT. Please look at Card 1. Approximately, how old is the [if NUMERAC>1: *most-used*] window/wall unit in your home?**

- 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

F-11a [If WWACAGE<03] **ESWWAC INTERVIEWER INSTRUCTION: PLACE SHOW CARD 31 IN FRONT OF THE RESPONDENT. Please look at Card 31. Is this air-conditioning unit an *Energy Star* appliance?**

Yes..... 1
No 0

F-12 **USEWWAC** INTERVIEWER INSTRUCTION: PLACE SHOW CARD 21 IN FRONT OF THE RESPONDENT. Please look at Card 21. Which of the statements shown best describes the way your household [IF THE INTERVIEW DATE IS BEFORE SEPTEMBER 1: uses the [IF NUMBERAC>1: most-used] window/wall air-conditioner this summer? IF THE INTERVIEW DATE IS AFTER AUGUST 31: used the [IF NUMBERAC>1: most used] wall or window air-conditioner during the summer of 2005?

- 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

F-13 **TREESHAD** Does your home have any large trees that shade your home from the afternoon summer sun?

- Yes..... 1
- No 0

F-14 **IVCOMMF** INTERVIEWER INSTRUCTION: RECORD ANY INFORMATION HERE ABOUT THE AIR-CONDITIONING EQUIPMENT IN THIS HOUSING UNIT AND ITS' USAGE THAT MIGHT PROVIDE CLARIFICATION TO THE RESPONDENT'S ANSWERS.

Section G: MISCELLANEOUS

G-1a LGT12 **Thinking of a typical summer weekday, please tell me the number of indoor lights your household has turned on for more than 12 hours each day? Do not include any nightlights in your count.**

Enter the number

G-1a1 [If LGT12>0] *LGT12EE* **How many of these lights use energy-efficient bulbs? An energy-efficient bulb is a fluorescent tube or a compact fluorescent bulb that costs more than a regular bulb but is one that lasts much longer.**

Enter the number

G-1b LGT4 **How many indoor lights are turned on between 4 hours and 12 hours each day during a typical summer weekday?**

Enter the number

G-1b1 [If LGT4>0] *LGT4EE* **How many of these lights use energy-efficient bulbs?**

Enter the number

G-1c LGT1 **How many indoor lights are turned on between 1 hour and 4 hours each day during a typical summer weekday?**

Enter the number

G-1c1 [If LGT1>0] *LGT1EE* **How many of these lights use energy-efficient bulbs?**

Enter the number

G-2 [If TYPEHUQ=2 or 3] *NOUHLGTNT* **How many outdoor lights are left on all night?**

Enter the number

G-2a [If OUTHLGTNT>0] *NGASLIGHT* [If OUTHLIGHT=1 **Does this light; if OUTHLIGHT>1 How many of these lights] use natural gas?**

Enter the number

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

G-3a [If SLDDRS=Yes] *DOOR1SUM* **How many of these sliding glass doors does your home have?**
INTERVIEWER INSTRUCTION: COUNT EACH PAIR OF SLIDING GLASS DOORS AS ONE DOOR.

Enter the number

G-4 **WINDOWS INTERVIEWER INSTRUCTION: PLACE SHOW CARD 22 IN FRONT OF THE RESPONDENT.**

Please look at Card 22. Approximately, how many windows does your home/apartment 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/apartment.

- 1 or 2..... 10
- 3 to 5..... 20
- 6 to 9..... 30
- 10 to 15..... 41
- 16 to 19..... 42
- 20 to 29..... 50
- 30 or more 60
- None (volunteered) 00

INTERVIEWER INSTRUCTION: 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-4a TYPEGLASS INTERVIEWER INSTRUCTION: PLACE SHOW CARD 23 IN FRONT OF THE RESPONDENT. Please look at Card 23. Which picture best describes the type of glass in the windows of your home/apartment? Do not consider storm windows.

- Single-pane glass 1
- Double-pane glass..... 2
- Double-pane glass with Low-e coating 3
- Triple-pane glass 4
- Triple-pane glass with Low-e coating 5

G-4b NEWGLASS How many of the original windows in your home/apartment have been replaced? Is it . . .

- All of the windows,**..... 1
- Some of the windows, or** 2
- None of the windows?** 3

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

- Well insulated,**..... 1
- Adequately insulated, or** 2
- Poorly insulated?**..... 3
- No insulation (if volunteered)** 4

G-6 DRAFTY How often do you or other members of your household find your home/apartment too drafty during the winter? Would you say it is. . .

- All the time,** 1
- Most of the time,** 2
- Some of the time, or** 3
- Never?**..... 4

G-7 [If TYPEHUQ<>1] HIGHCEIL Are any of the ceilings in your home/apartment unusually high? Most ceilings are about 8 feet high which is about a foot higher than a standard door.

- Yes..... 1
- No 0

G-7a CATHCEIL [If HIGHCEIL=1] Are any of the ceilings in your home/apartment what are

commonly described as cathedral ceilings? Cathedral ceilings are usually in rooms on the main floor and go all the way up to the roof.

Yes..... 1
No 2

G-8 IVCOMMG INTERVIEWER INSTRUCTION: RECORD ANY INFORMATION HERE ABOUT THE MISCELLANEOUS CHARACTERISTICS OF THIS HOUSING UNIT THAT MIGHT PROVIDE CLARIFICATION TO THE RESPONDENT'S ANSWERS.
