

## Section D. AIR CONDITIONING

D-1. Does your household have air-conditioning equipment (either a central system with, or without a heat pump, or wall, or window units?) CIRCLE ALL THAT APPLY.

- |   |             |     |
|---|-------------|-----|
| YES, CENTRAL SYSTEM WITH A HEAT PUMP .....    | 1           | 232 |
| YES, CENTRAL SYSTEM WITHOUT A HEAT PUMP ..... | 2           | 233 |
| YES, INDIVIDUAL (WINDOW/WALL) UNITS .....     | 3           | 234 |
| NO .....                                      | 0 --> [E-1] | 235 |

INTERVIEWER: RECORD ON FOLDOUT PAGE.

CIRCLE ON THE FOLDOUT PAGE UNDER ELECTRICITY "FOR AIR-CONDITIONING", CIRCLE "1" FOR "YES" UNDER "USAGE" COLUMN IF INDIVIDUAL "WINDOW OR WALL UNITS."

D-2. Last summer did your household's air-conditioning (central or window/wall units) cool your entire house or some of the rooms?

- |                                     |             |     |
|-------------------------------------|-------------|-----|
| ENTIRE HOUSE OR APARTMENT .....     | 1 --> [D-4] |     |
| SOME OF THE ROOMS .....             | 2           | 236 |
| DID NOT LIVE HERE LAST SUMMER ..... | 3 --> [D-4] |     |
| NO ROOMS COOLED .....               | 0 --> [D-4] |     |

IF "SOME OF THE ROOMS" ON D-2, ASK:

D-3. How many rooms were cooled by your household's air-conditioning last summer?

NUMBER OF ROOMS: .....

237-8

**CENTRAL AIR-CONDITIONING**

**INTERVIEWER: IF "CENTRAL SYSTEM" ON D-1, ASK. OTHERWISE SKIP TO BOX 2, PAGE 20.**

D-4. Please turn to Exhibit D-4. Which statement on this exhibit best describes the way your household used the central air-conditioner(s) last summer?

- DID NOT USE AT ALL ..... 0
- TURNED ON ONLY A FEW DAYS OR NIGHTS WHEN  
REALLY NEEDED ..... 1 239
- TURNED ON QUITE A BIT ..... 2
- TURNED ON JUST ABOUT ALL SUMMER ..... 3
- NOT HERE LAST SUMMER ..... 4
- OTHER (SPECIFY): \_\_\_\_\_ 5

D-5. Does your household's central air-conditioner run on electricity or is it one of the few that uses natural gas or bottled gas? (DO NOT COUNT FREON AS GAS)

- ELECTRICITY ..... 05 240-41
- NATURAL GAS (GAS FROM UNDERGROUND PIPES) ..... 01
- BOTTLED GAS (LPG OR PROPANE) ..... 02
- DON'T KNOW ..... 96

INTERVIEWER: CHECK FOLDOUT PAGE. CIRCLE "FUEL USED" COLUMN IF FUEL NOT ALREADY MARKED.

ALSO, IF ELECTRICITY, "FOR AIR CONDITIONING," CIRCLE "1" FOR "YES" UNDER THE "USAGE" COLUMN.

IF NATURAL GAS, "FOR OTHER" APPLIANCES CIRCLE "1" FOR "YES" UNDER THE "USAGE" COLUMN.

D-6. Does your household's central air-conditioning equipment that cools your home also cool other apartments, condos, houses, businesses, or farm buildings?

- NO, A/C IS FOR RESPONDENT'S HOME ONLY ..... 0
- YES, A/C COOLS ONE OR MORE OTHER APARTMENTS,  
HOUSES, OR BUSINESSES ..... 1 --> [BOX 2] 242
- DON'T KNOW ..... 6 --> [BOX 2; PAGE 20]

**IF "NO, A/C IS FOR RESIDENTS HOME ONLY" ON D-6, ASK:**

**D-7. Please look at the "Yellow Card". How old is your household's central air-conditioning equipment?**

- LESS THAN 2 YEARS OLD ..... 1
- 2 - 4 YEARS OLD ..... 2
- 5 - 9 YEARS OLD ..... 3 --> [BOX 2] 243
- 10 - 19 YEARS OLD ..... 4 --> [BOX 2]
- 20 YEARS OR OLDER ..... 5 --> [BOX 2]
- DON'T KNOW ..... 6 --> [BOX 2]

**D-8. Since January 1, 1990, has your household purchased new central air-conditioning equipment for this home or acquired new central air-conditioning as part of the purchase of a new home?**

- YES, PURCHASED FOR EXISTING HOME ..... 1 --> [D-10]
- YES, CAME WITH HOME PURCHASE ..... 2 244
- NO ..... 0 --> [BOX 2]
- DON'T KNOW ..... 6 --> [BOX 2]

**IF "CAME WITH HOME PURCHASE" ON D-8, ASK:**

**D-9. Did your household select the model or did the model come standard with the new home?**

- HOUSEHOLD SELECTED ..... 1 --> [D-12]
- STANDARD WITH NEW HOME ..... 0 --> [BOX 2] 245
- DON'T KNOW ..... 6 --> [BOX 2]

**IF "PURCHASED FOR EXISTING HOME" ON D-8, ASK:**

**D-10. Did the new central air-conditioning equipment replace another central air-conditioner, replace a window/wall air conditioner, add to the existing equipment in your home, or did your household have no air-conditioning equipment before this purchase?**

- REPLACED CENTRAL UNIT ..... 1
- REPLACED WINDOW/WALL UNIT ..... 2
- ADDITIONAL EQUIPMENT ..... 3 --> [D-12] 246
- NO EQUIPMENT BEFORE ..... 4 --> [D-12]
- DON'T KNOW ..... 6 --> [D-12]

D-11. How well was the old air-conditioner working when you replaced it? Very well, well, not well, or not working at all?

- VERY WELL ..... 1
- WELL ..... 2
- NOT WELL ..... 3
- NOT WORKING AT ALL ..... 4
- DON'T KNOW ..... 6

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D-12. Thinking back to why your household decided to purchase this new air-conditioner. Please tell me, for each of the following reasons, whether it was very important, somewhat important, or not important to your decision.

	VERY IMPORTANT	SOMEWHAT IMPORTANT	NOT IMPORTANT	DON'T KNOW	
a. Purchase Price ..... a.	1	2	3	6	248
b. Reputation of Manufacturer .. b.	1	2	3	6	249
c. Energy Efficiency ..... c.	1	2	3	6	250
d. Rebate or Availability of Low-Interest Financing ..... d.	1	2	3	6	251

**WINDOW/WALL AIR-CONDITIONING**

**BOX 2**

**INTERVIEWER: IF "INDIVIDUAL WINDOW/WALL UNITS" ON D-1, ASK. OTHERWISE SKIP TO E-1, PAGE 21.**

D-13. How many window or wall air-conditioning units does your household have?

NUMBER OF WINDOW/WALL UNITS: .....  252-3

D-14. (Is the window/wall air conditioner a heat pump?) How many of the window/wall air-conditioners are heat pumps?

NO/NONE ..... 0  
 YES/ONE ..... 1  
 TWO ..... 2  
 THREE OR MORE ..... 3  
 DON'T KNOW ..... 6

254

D-15. Please turn to the "Yellow Card". About how old is your household's **MOST-USED** unit? "Most-Used" is the unit that is used more often than any other unit.

LESS THAN 2 YEARS ..... 1  
 2 - 4 YEARS ..... 2  
 5 - 9 YEARS ..... 3  
 10 - 19 YEARS ..... 4  
 20 YEARS OR OLDER ..... 5  
 DON'T KNOW ..... 6

255

D-16. Please look at Exhibit D-16. Which statement best describes the way your household used the (most used) wall or window unit air conditioner(s) last summer?

DID NOT USE 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  
 DID NOT LIVE HERE LAST SUMMER ..... 4  
 OTHER (SPECIFY): \_\_\_\_\_ ..... 5

256

## Section E. WATER HEATING

E-1. Please turn to the "Blue Card". Which fuel is used most for heating water for washing or bathing?  
CIRCLE ONLY ONE.

- |   |              |        |
|---|--------------|--------|
| ELECTRICITY .....                               | 05           |        |
| NATURAL GAS (GAS FROM UNDERGROUND PIPES) .....  | 01           |        |
| BOTTLED GAS (LPG OR PROPANE) .....              | 02           |        |
| FUEL OIL .....                                  | 03           |        |
| KEROSENE OR COAL OIL .....                      | 04           | 268-87 |
| COAL OR COKE .....                              | 06           |        |
| WOOD .....                                      | 07           |        |
| SOLAR .....                                     | 08           |        |
| OTHER (SPECIFY): _____ .....                    | 21           |        |
| DON'T KNOW .....                                | 96           |        |
| NO WATER HEATING DONE FOR WASHING/BATHING ..... | 00 --> [F-1] |        |

INTERVIEWER: CHECK FOLDOUT PAGE. CIRCLE "1" UNDER "FUEL USED" IF FUEL NOT ALREADY MARKED.

ALSO, IF ELECTRICITY OR NATURAL GAS, "FOR HOT WATER" CIRCLE "1" FOR "YES" UNDER "USAGE" COLUMN.

E-2. Does the main equipment for heating water for your home also heat water for other apartments, condos, houses, businesses, or farm buildings?

- |   |             |     |
|---|-------------|-----|
| NO, HOT WATER EQUIPMENT IS FOR RESPONDENT'S HOME ONLY ..... | 0           |     |
| YES .....   | 1 --> [E-9] | 268 |
| DON'T KNOW .....  | 6 --> [E-9] |     |

IF "NO, HOT WATER EQUIPMENT IS FOR RESPONDENT'S HOME ONLY" ON E-2, ASK:

- E-3. Please turn to Exhibit E-3. How large is your household's main water heater tank?
- |                                  |   |     |
|----------------------------------|---|-----|
| SMALL (30 GALLONS OR LESS) ..... | 1 |     |
| MEDIUM (31 TO 49 GALLONS) .....  | 2 | 269 |
| LARGE (50 GALLONS OR MORE) ..... | 3 |     |
| DON'T KNOW .....                 | 6 |     |

E-4. Please look at the "Yellow Card". Approximately how old is your household's main water heater?  
 (INTERVIEWER: PROBE FOR BEST GUESS.)

LESS THAN 2 YEARS .....	1	
2 - 4 YEARS .....	2	
5 - 9 YEARS .....	3 -->	[E-9] 270-71
10 - 19 YEARS .....	4 -->	[E-9]
20 YEARS OR MORE .....	5 -->	[E-9]
DON'T KNOW .....	6 -->	[E-9]
NO SEPARATE WATER HEATER .....	0 -->	[E-9]

E-5. Since January 1, 1990, has your household purchased a new main water heater either to replace an older one or as part of the purchase of a new home?

YES, PURCHASED REPLACEMENT .....	1 -->	[E-7] 272
YES, CAME WITH HOME PURCHASE .....	2	
NO .....	0 -->	[E-9]
DON'T KNOW .....	6 -->	[E-9]

IF "CAME WITH HOME PURCHASE" ON E-5, ASK:

E-6. Did your household select the model or did the model come standard with the new home?

HOUSEHOLD SELECTED .....	1 -->	[E-8]
STANDARD WITH NEW HOME .....	0 -->	[E-9] 273
DON'T KNOW .....	6 -->	[E-9]

IF "PURCHASED REPLACEMENT" ON E-5, ASK:

E-7. Does the new water heater use the same fuel as the equipment it replaced?

YES .....	1	
NO .....	0	274
DON'T KNOW .....	6	

E-8. Think back to why your household decided to purchase this new water heater. Please tell me, for each of the following reasons, whether it was very important, somewhat important, or not important to your decision.

	VERY IMPORTANT	SOMEWHAT IMPORTANT	NOT IMPORTANT	DON'T KNOW	
a. Purchase Price . . . . . a.	1	2	3	6	275
b. Immediate Availability . . . . . b.	1	2	3	6	276
c. Energy Efficiency . . . . . c.	1	2	3	6	277
d. Rebate or Availability of Low-Interest Financing . . . . . d.	1	2	3	6	278

E-9. Please turn to Exhibit E-9. The following questions will help us learn about your household's hot water usage. How many baths or showers are taken in the household in a week? Please be sure to count all the times a bath or shower is used by anyone in the house.

9 OR FEWER A WEEK . . . . .	1	
10 - 20 A WEEK . . . . .	2	279
21 OR MORE A WEEK . . . . .	3	
DON'T KNOW . . . . .	6	

E-10. In addition to (FUEL FROM E-1), does your household use any other fuel for heating water for washing or bathing?

YES . . . . .	1	280
NO . . . . .	0 --> [F-1]	

E-11. Please turn to the "Blue Card." What is this additional water heating fuel?

ELECTRICITY .....	05
NATURAL GAS (GAS FROM UNDERGROUND PIPES) ..	01
BOTTLED GAS (LPG OR PROPANE) .....	02
FUEL OIL .....	03
KEROSENE OR COAL OIL .....	04
COAL OR COKE .....	06
WOOD .....	07
SOLAR .....	08
OTHER (SPECIFY): _____	21
DON'T KNOW .....	96

281-82

INTERVIEWER: CHECK FOLDOUT PAGE. CIRCLE '1' FOR 'FUEL USED' IF FUEL NOT ALREADY CIRCLED.

ALSO, IF ELECTRICITY OR NATURAL GAS USED 'FOR HOT WATER', CIRCLE '1' FOR 'YES' UNDER THE 'USAGE' COLUMN ON THE FOLDOUT PAGE.

## Section F. LIGHTS

**INDOOR LIGHTS**

F-1. Please turn to Exhibit F-1. Thinking of a typical November weekday, please tell me the number of indoor lights your household has turned on for each of the following time periods.

	F-1. NUMBER OF LIGHTS	F-2. NUMBER OF FLUORESCENT LIGHTS	
a. More than 12 hours per day .....	NONE ..... 00	NONE ..... 00	283-96
b. Between 4 hours and 12 hours per day .....	NONE ..... 00	NONE ..... 00	297-300
c. Between 1 hour and 4 hours per day .....	NONE ..... 00	NONE ..... 00	301-04

FOR EACH ANSWER OF 1 LIGHT OR MORE IN "a" THROUGH "c" IN F-1 ABOVE, ASK F-2:

F-2. Of the (NUMBER) indoor lights on (HOURS), how many are fluorescent? \_\_\_\_\_

**OUTDOOR LIGHTS**

F-3. Please turn to Exhibit F-3. Thinking about a typical November weekday, please indicate all the statements that describe the outdoor lights used by your household.

	<u>YES</u>	<u>NO</u>	
a. NO OUTDOOR LIGHTS OR RARELY USED .....	1	0	305
b. OUTDOOR LIGHTS TURNED ON DURING THE EVENING, BUT TURNED OFF BEFORE BEDTIME .....	1	0	306
c. OUTDOOR LIGHTS LEFT ON ALL NIGHT .....	1	0	307
d. OUTDOOR LIGHTS WITH A TIMER, MOTION SENSOR, OR PHOTODENSOR .....	1	0	308
e. OUTDOOR GAS LIGHT .....	1	0	309
f. HIGH INTENSITY DISCHARGE (HID) OUTDOOR LIGHTS, SUCH AS METAL HALIDE OR HIGH PRESSURE SODIUM LIGHTS .....	1	0	310
g. TOTAL WATTAGE OF ALL OUTDOOR LIGHTS IS LESS THAN 150 WATTS .....	1	0	311
h. DON'T KNOW .....	1	0	312

INTERVIEWER: RECORD ON FOLDOUT PAGE. IF GAS OUTDOOR LIGHT, CIRCLE "1" FOR "YES" ON THE "USAGE" COLUMN UNDER NATURAL GAS "FOR OTHER APPLIANCES."