

Section H. CONSERVATION MEASURES AND USAGE

INSULATION

H-1. Overall, would you say that this home/apartment is well insulated, adequately insulated, or poorly insulated? Insulation includes window caulking or weather stripping.

WELL INSULATED	1	
ADEQUATELY INSULATED	2	
POORLY INSULATED	3	412
NO INSULATION (VOLUNTEERED)	4	
DON'T KNOW	6	

INTERVIEWER: CHECK A-1 'HOUSING STRUCTURE' ON THE FOLDOUT PAGE. IF SINGLE-FAMILY HOME OR MOBILE HOME, ASK H-2, OTHERWISE SKIP TO H-3.

H-2. Does your home have any of the following insulation?

	YES	NO	DON'T KNOW	
a. Roof or Ceiling insulation	1	0	6	413
b. Insulation in Outside Walls	1	0	6	414
c. Insulation (Blanket) Around the Hot Water Heater	1	0	6	415
d. Insulation Around Hot Water Pipes	1	0	6	416
e. Insulation Around Heating and/or Cooling Ducts .	1	0	6	417
f. Weather Stripping Around Any Windows or Doors to the Outside	1	0	6	418
g. Caulking	1	0	6	419

INTERVIEWER: ASK EVERYONE

H-3. Does your home have any of the following?

	YES	NO	DON'T KNOW	
a. Automatic Set-back or Clock Thermostat	1	0	6	420
b. Regular Maintenance of Heating System/ Furnace	1	0	6	421
c. Large Tree(s) That Shade Your House or Apartment from the Afternoon Summer Sun	1	0	6	422

NEW TECHNOLOGIES

H-4. Please turn to Exhibit H-4. There are new products designed to save energy. They are just becoming available and most people may not have heard about them yet. Have you heard of any of the following:

NEW PRODUCTS	H-4. Have Heard		H-5. Used In Home			
	YES	NO	YES	NO	DK	
a. Low-E Window Glass a.	1	0	1	0	6	423-24
b. Instantaneous (or Point-of-Use) Water Heater b.	1	0	1	0	6	425-26
c. Ground-Source Heat Pump c.	1	0	1	0	6	427-28
d. Water-Source Heat Pump d.	1	0	1	0	6	429-30
e. Thermal Storage e.	1	0	1	0	6	431-32
f. Heat Pump Water Heater f.	1	0	1	0	6	433-34
g. "Combo Heater" Gas-Fired Water Heater with Heat Exchanger for Space Heatingg.	1	0	1	0	6	435-36
h. Halogen Light Bulbs h.	1	0	1	0	6	437-38
i. Compact Fluorescent Light Bulbs i.	1	0	1	0	6	439-40

FOR EACH "YES" ON H-4, ASK, OTHERWISE --> [H-6]

H-5. Does your household use (NEW PRODUCT) in your home? _____

WINDOWS/DOORS

H-6. How many sliding glass doors does your household have that go from a heated area to the outside or to an unheated area?

NUMBER OF SLIDING GLASS DOORS: 441
 NONE 0 --> [H-8]

INTERVIEWER: COUNT EACH PAIR OF SLIDING GLASS DOORS AS ONE DOOR.

H-7. Please turn to Exhibit H-7. Which describes the glass in your sliding door?

- 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
 - DON'T KNOW 6
- 442

INTERVIEWER: IF ASKED, LOW-E COATING IS A TRANSPARENT, MICROSCOPIC LAYER OF METALLIC MATERIAL APPLIED AT THE FACTORY TO THE INSIDE OF A DOUBLE- OR TRIPLE-PANE GLASS TO REDUCE HEAT TRANSFER.

H-8. Please turn to Exhibit H-8. How many windows does your home have? Each window that opens separately should be counted as one window. Include basement, attic, garage, and porch windows only if these areas are heated.

NUMBER OF WINDOWS 443-44

INTERVIEWER: IF ASKED, DOUBLE HUNG 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.

H-9. Please turn to Exhibit H-9. Which best describes most of the windows in your home? Do not consider storm windows.

SINGLE-PANE GLASS	1	
DOUBLE-PANE GLASS	2	
DOUBLE-PANE GLASS WITH LOW-E COATING	3	445
TRIPLE-PANE GLASS	4	
TRIPLE-PANE GLASS WITH LOW-E COATING	5	
DON'T KNOW	6	

INTERVIEWER: IF ASKED, LOW-E COATING IS A TRANSPARENT, MICROSCOPIC LAYER OF METALLIC MATERIAL APPLIED AT THE FACTORY TO THE INSIDE OF A DOUBLE- OR TRIPLE-PANE GLASS TO REDUCE HEAT TRANSFER

H-10. Do you have storm windows or plastic coverings on most of your windows?

YES, STORM WINDOWS	1	446
YES, PLASTIC COVERINGS	2	447
NO	0	448

INTERVIEWER READ: "Please do not consider storm windows in answering the following questions."

H-11. Exhibit H-9 shows the location of the window frame. Is most of the window glass held in place by a metal or nonmetal frame? (If storm windows are present, answer for regular windows, not the storm windows.)

METAL (ALUMINUM OR STEEL)	1	
NONMETAL (WOOD OR VINYL)	2	449
OTHER	3	
DON'T KNOW	6	

H-12. How many of the original windows have been replaced, all, some, or none of the windows? (Exclude additions onto the house.)

ALL OF THE WINDOWS	1 -> [H-14]	
SOME OF THE WINDOWS	2	450
NONE OF THE WINDOWS	0 -> [H-15]	
DON'T KNOW	6 -> [H-15]	

IF 'SOME' ON H-12, ASK:

H-13. Please turn to Exhibit H-13. Which best describes most of the replacement windows?
CIRCLE ONE ONLY.

- SINGLE-PANE GLASS 1
- DOUBLE-PANE GLASS 2
- DOUBLE-PANE GLASS WITH LOW-E COATING 3 451
- TRIPLE-PANE GLASS 4
- TRIPLE-PANE GLASS WITH LOW-E COATING 5
- DON'T KNOW 6

H-14. Please turn to the "Yellow Card". Approximately how long ago were the windows replaced?

- LESS THAN 2 YEARS 1
- 2 - 4 YEARS 2
- 5 - 9 YEARS 3 452
- 10 - 19 YEARS 4
- 20 YEARS OR MORE 5
- DON'T KNOW 6

COOLING FANS

H-15. Which fans did your household use to assist in cooling your home last summer?

TYPES OF HOUSEHOLD FANS	YES	NO	NOT HERE LAST SUMMER	DON'T KNOW	
a. Window Fan	1	0	5	6	453
b. Portable Table or Floor Fan	1	0	5	6	454
c. Attic Exhaust Fan	1	0	5	6	455
d. "Whole House" Cooling Fan (usually in attic or entrance to attic)	1	0	5	6	456
e. Ceiling Fan	1	0	5	6	457

IF USE CEILING FAN ON H-15, ASK:

H-16. How many ceiling fans does your household use? ... Number: 458

HOME ACTIVITIES

H-17. On a typical weekday in this home, is there:

	YES	NO	DON'T KNOW	
a. Operation of a home-based service or business? .	1	0	6	459
b. Some other activity requiring <u>a lot</u> of energy? If "YES" (SPECIFY):	1	0	6	460
c. Someone home all day?	1	0	6	461

INTERVIEWER: "Lot of Energy" DOES NOT MEAN HUMAN ENERGY, SUCH AS HOUSEWORK

Section I. DEMAND-SIDE MANAGEMENT

INTERVIEWER READ: "This next Section applies only to your experiences living in this home/apartment."

I-1. Please turn to Exhibit I-1. Are any of these programs offered by your electric utility, natural gas utility, or through some other group?

YES	1	
NO	0 -->	[BOX 4: 465
DON'T KNOW	6	PAGE 48]

I-2. Has your household participated in any of these programs for this home during the last 12 months?

YES	1	
NO	0 -->	[BOX 4] 466
DON'T KNOW	6 -->	[BOX 4: PAGE 48]

INTERVIEWER: CHECK FOLDOUT PAGE. IF HOUSEHOLD USES NATURAL GAS, ASK I-3, OTHERWISE SKIP TO I-4.

I-3. Were these electric or natural gas programs? (CIRCLE ALL THAT APPLY.)

ELECTRIC PROGRAM	5	467
NATURAL GAS PROGRAM	1	468
DON'T KNOW	6	469

INTERVIEWER: IF THE RESPONDENT HAS QUESTIONS CONCERNING DEFINITIONS FOR THE FOLLOWING QUESTIONS, REFER TO EXHIBIT I-1.

I-4. Has your household had a home energy audit within the past 12 months?

YES	1	
NO	0	470
DON'T KNOW	6	

I-5. Has your household participated in a load control program within the past 12 months where you agreed to allow your electric utility to shut off some equipment in your home during the weekday in return for a discount on your utility bill?

YES	1	
NO	0 --> [I-7]	471
DON'T KNOW	6 --> [I-7]	

IF "YES" ON I-5, ASK:

I-6. Was the discount offered for the air-conditioner, the water heater, or other appliance or equipment? (CIRCLE ALL THAT APPLY)

	<u>YES</u>	<u>NO</u>	
AIR-CONDITIONER	1	0	472
WATER HEATER	1	0	473
OTHER APPLIANCE/EQUIPMENT	1	0	474
DON'T KNOW	1	0	475

I-7. Has your household participated in an energy conservation program in the last 12 months where you received some equipment or service, such as a water heater blanket, low flow showerhead, or furnace maintenance?

YES	1	
NO	0 --> [I-9]	476
DON'T KNOW	6 --> [I-9]	

IF "YES" ON I-7, ASK:

I-8. Please turn to Exhibit I-8. Which energy conservation items were received by your household?

	<u>YES</u>	<u>NO</u>	
COMPACT FLUORESCENT LIGHT BULBS	1	0	477
LOW-FLOW SHOWERHEAD	1	0	478
WATER HEATER BLANKET	1	0	479
INSULATION	1	0	480
CAULKING/WEATHER STRIPPING	1	0	481
ENERGY-CONSERVING WINDOWS	1	0	482
MAINTENANCE--HEATING SYSTEM, ETC.	1	0	483
OTHER ITEM (SPECIFY): _____ .	1	0	484
DON'T KNOW	1	0	485

I-9. Did your household receive, within the last 12 months, a low interest loan, rebate or other financial incentive to encourage you to buy energy-efficient equipment?

YES	1	
NO	0 --> [I-12]	495
DON'T KNOW	6 --> [I-12]	

IF "YES" ON I-9, ASK:

I-10. Please turn to Exhibit I-10. For what type of equipment did your household get a rebate or other financial incentive? (CIRCLE ALL THAT APPLY)

	<u>YES</u>	<u>NO</u>	
AIR CONDITIONING EQUIPMENT	1	0	496
WATER HEATER	1	0	497
HEATING EQUIPMENT	1	0	498
REFRIGERATOR	1	0	499
COMPACT FLUORESCENT LIGHT BULBS	1	0	500
OTHER (SPECIFY): _____	1	0	501
DON'T KNOW	1	0	502

I-11. How important was the utility's financial assistance in making the decision to purchase the energy efficient equipment? Was it very important, somewhat important, or would you have bought it anyway?

VERY IMPORTANT	2	
SOMEWHAT IMPORTANT	1	503
WOULD HAVE BOUGHT IT ANYWAY	0	
DON'T KNOW	6	

I-12. Has your household participated in a program within the last 12 months that encouraged you to switch fuels for certain equipment in your home?

YES	1	
NO	0	504
DON'T KNOW	6	

I-13. Has your household participated in a time-of-use rate program within the last 12 months, where you receive cheaper electric rates if you use electricity at certain times of the day when demand is lowest?

YES	1	
NO	0	505
DON'T KNOW	6	