

2015 Residential Energy Consumption Survey (RECS)

Household Questionnaire – Computer-Assisted Personal Interview (CAPI)

Form EIA-457A

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HOW TO USE THIS QUESTIONNAIRE

Respondents from sampled housing units completed the 2015 Residential Energy Consumption Survey (RECS) household questionnaire by one of three modes: a *computer-assisted personal interview (CAPI)*, a *self-administered paper questionnaire*, or a *self-administered web questionnaire*. This document is a paper representation of the 2015 RECS computer-assisted questionnaire, which is programmed using a software called Blaise. These interviews were administered on a laptop brought to the sampled housing unit by a professional interviewer. The 2015 RECS self-administered paper questionnaire is separately available on the EIA website. The 2015 RECS self-administered web questionnaire is not publicly accessible, but is designed to be as similar as possible to the paper questionnaire.

PLEASE NOTE: All the question fills and skip patterns were handled automatically by the Blaise software and were transparent to the interviewer, so this document appears much more complex than the actual RECS instrument.

Each question is formatted as follows:

Variable name (New) (Changed from 2009)					
ASK					
Interviewer instructions					
Question text and response set					
NEXT					
Derived		Show Card		CARI	

Comments:

- **(New)** or **(Changed from 2009)** are displayed next to the variable name when applicable
- **ASK** describes what needs to be true for a question to be asked for a particular respondent
- Interviewers are trained to not read the instructions (shown in [blue](#)) aloud to respondents
- **NEXT** lists the variable name for the following question
- **Derived** is “Yes” if the variable is calculated for some or all respondents based on their responses to other questions
- **Show Card** is “Yes” if a physical card with a list of response options or pictures is shown to the respondent while the interviewer reads the question aloud
- **CARI** is “Yes” if the question was selected for computer audio-recorded interviewing (CARI), which means the interaction between the interviewer and respondent was recorded to allow for data quality review and analysis

If referencing this questionnaire as a resource when using the public use data file, most variable names and response sets will match those shown here. However, some variable names and response sets had to be modified when combining data across the three questionnaire modes. For that reason, the variable and response set codebook that accompanies the public use data file is the best source for variable descriptions and response codes.

SECTION A: STRUCTURAL CHARACTERISTICS

CARI (New)					
ASK	All respondents				
<p>Some parts of this interview will be recorded for quality control purposes. I'd like to continue now unless you have any questions.</p> <p>1 Gives consent to record interview 0 Does not give consent to record interview</p>					
NEXT	CONFIRM				
Derived		Show Card		CARI	Yes

CONFIRM					
ASK	All respondents				
<p>Interviewer Task: If you haven't already, confirm you are at the correct address. Record your answer below.</p> <p>1 Correct address as listed 2 Mostly correct address, needs updating 0 Not at correct address</p>					
NEXT	<p>If CONFIRM=1: INTHUQ If CONFIRM=2: CSTREET If CONFIRM=0: This is not the housing unit you are supposed to be interviewing. Excuse yourself and terminate the interview.</p>				
Derived		Show Card		CARI	Yes

CSTREET					
ASK	If CONFIRM=2				
<p>Interviewer Task: You are at the correct housing unit to be interviewed but there is a difference between the listed address and the actual address. Enter the actual housing unit address and continue the interview.</p> <p>Record the street address here.</p> <p>Open response</p>					
NEXT	CCITY				
Derived		Show Card		CARI	Yes

CCITY					
ASK	If CONFIRM=2				
<p>Interviewer Task: Record the city here.</p> <p>Open response</p>					
NEXT	CSTATE				
Derived		Show Card		CARI	

CSTATE					
ASK	If CONFIRM=2				
<p>Interviewer Task: Record the state here.</p> <p>Open response</p>					
NEXT	CZIP				
Derived		Show Card		CARI	

CZIP					
ASK	If CONFIRM=2				
<p>Interviewer Task: Record the zip code here.</p> <p>Open response</p>					
NEXT	INTHUQ				
Derived		Show Card		CARI	

INTHUQ					
ASK	All respondents				
<p>Interviewer Task: Record your observation of the housing unit type.</p> <p>2 Single-family detached house (a house detached from any other house)</p> <p>3 Single-family attached house (a house attached to one or more houses)</p> <p>4 Apartment building with 2 - 4 units</p> <p>5 Apartment building 5 or more units</p> <p>1 Mobile home</p>					

NEXT	If INTHUQ in(4,5): APTFLOOR If INTHUQ=3: SFAEND Else: PRIMRES				
Derived		Show Card		CARI	

APTFLOOR (New)					
ASK	If INTHUQ in(4,5)				
<p>Interviewer Task: Record what floor this apartment is on. If this is a basement apartment, enter "0."</p> <p>0 - 99</p>					
NEXT	APTINOUT				
Derived		Show Card		CARI	

APTINOUT (New)					
ASK	If INTHUQ in(4,5)				
<p>Interviewer Task: Record whether the main entrance to this apartment opens to an enclosed hallway, or to the outside.</p> <p>1 Enclosed hallway 2 Outside</p>					
NEXT	PRIMRES				
Derived		Show Card		CARI	

SFAEND (New)					
ASK	If INTHUQ=3				
<p>Interviewer Task: Record whether this single-family attached home is an end unit.</p> <p>1 Yes 0 No</p>					
NEXT	PRIMRES				
Derived		Show Card		CARI	

PRIMRES					
ASK	All respondents				
<p>I'd like to start with some general questions about your home.</p> <p>Your primary residence is the home where you live for most of the year. Is this your primary residence?</p> <p>1 Yes 0 No</p>					
NEXT	If PRIMRES=0: PRIMRESA If PRIMRES=1: CNFRMHUQ				
Derived		Show Card		CARI	

PRIMRESA					
ASK	If PRIMRES=0				
<p>Is this the primary residence for anyone else who currently lives in this home?</p> <p>1 Yes 0 No</p>					
NEXT	If PRIMRESA=1: Complete interview with primary resident when they are available. If PRIMRESA=0: This housing unit is out of scope. Excuse yourself and terminate the interview.				
Derived		Show Card		CARI	

CNFRMHUQ					
ASK	If PRIMRES=1				
<p>My observation is that this residence is a [FILL: INTHUQ]. Do you agree with my observation?</p> <p>1 Yes 0 No</p>					
NEXT	If CNFRMHUQ=0: ALTHUQ If CNFRMHUQ=1: KOWNRENT				
Derived		Show Card		CARI	Yes

ALTHUQ					
ASK	If CNFRMHUQ=0				
<p>Which of the following do you believe best describes this home? Is it a single-family detached house, a single-family attached house, an apartment building with 2-4 units, an apartment building with 5 or more units, or a mobile home?</p> <p>2 Single-family detached house 3 Single-family attached house 4 Apartment building with 2 - 4 units 5 Apartment building 5 or more units 1 Mobile home</p>					
NEXT	REVHUQ				
Derived		Show Card		CARI	

REVHUQ					
ASK	If CNFRMHUQ=0				
<p>Interviewer Task: If you agree with the householder's description, record "Use householder's description" below, and use the alternative as the type of housing unit throughout the remainder of the interview.</p> <p>If you disagree with the householder's description, record "Use RECS definition" below and tell the householder that: Although you have described this home as a [FILL: ALTHUQ], the definitions given to me by the Department of Energy describe this home as a [FILL: INTHUQ]. I have recorded your description, but in order to be consistent, I will need to refer to this home as a [FILL: INTHUQ] for the rest of the survey.</p> <p>1 Use householder's definition 2 Use RECS definition</p>					
NEXT	KOWNRENT				
Derived		Show Card		CARI	

TYPEHUQ					
ASK					
Derived					
NEXT					
Derived	Yes	Show Card		CARI	

KOWNRENT					
ASK	All respondents				
<p>Is this home...</p> <ul style="list-style-type: none"> 1 Owned or being bought by someone in your household, 2 Rented, or 3 Occupied without payment of rent? 					
NEXT	KOWNCOND				
Derived		Show Card		CARI	

KOWNCOND					
ASK	All respondents				
<p>Is this home part of a condominium or cooperative?</p> <ul style="list-style-type: none"> 1 Yes 0 No 					
NEXT	If KOWNCOND=1: CONDCOOP Else: YEARMAD				
Derived		Show Card		CARI	

CONDCOOP					
ASK	If KOWNCOND=1				
<p>Which is it, a condominium or cooperative?</p> <ul style="list-style-type: none"> 1 Condominium 2 Cooperative 					
NEXT	YEARMAD				
Derived		Show Card		CARI	

YEARMAD (Changed from 2009)					
ASK	All respondents				
<p>In what year was this structure built? Your best estimate is fine.</p> <p>1600 - 2016</p>					

NEXT	If YEARMAD E in(-8,-9): YEARMAD E RANGE Else: OCCUPYY				
Derived		Show Card		CARI	Yes

YEARMAD E RANGE (Changed from 2009)					
ASK	If YEARMAD E in(-8,-9)				
<p>Place show card 2 in front of the respondent.</p> <p>Please look at Card 2. Although you do not know the exact year this structure was built, it is helpful to have an estimate. About when was this structure built?</p> <ul style="list-style-type: none"> 1 Before 1950 2 1950 to 1959 3 1960 to 1969 4 1970 to 1979 5 1980 to 1989 6 1990 to 1999 7 2000 to 2009 8 2010 to 2016 					
NEXT	OCCUPYY				
Derived	Yes	Show Card	Yes	CARI	Yes

OCCUPYY (Changed from 2009)					
ASK	All respondents				
<p>In what year did your household move in? Your best estimate is fine.</p> <p>1600 - 2016</p>					
NEXT	If OCCUPYY in(-8,-9): OCCUPYY RANGE Else if OCCUPYY in(2015,2016): OCCUPYM Else: VACANT				
Derived		Show Card		CARI	

OCCUPYYRANGE (Changed from 2009)					
ASK	If OCCUPYY in(-8,-9)				
<p>Place show card 2 in front of the respondent.</p> <p>Please look at Card 2. Although you do not know the exact year your household moved in, it is helpful to have an estimate. About when did your household move in?</p> <ol style="list-style-type: none"> 1 Before 1950 2 1950 to 1959 3 1960 to 1969 4 1970 to 1979 5 1980 to 1989 6 1990 to 1999 7 2000 to 2009 8 2010 to 2016 					
NEXT	VACANT				
Derived	Yes	Show Card	Yes	CARI	

OCCUPYM (Changed from 2009)					
ASK	If OCCUPYY in(2015,2016)				
<p>In what month of that year did your household move in?</p> <ol style="list-style-type: none"> 1 January 2 February 3 March 4 April 5 May 6 June 7 July 8 August 9 September 10 October 11 November 12 December 					
NEXT	VACANT				
Derived		Show Card		CARI	

VACANT (New)	
ASK	All respondents
<p>During the last year, was your home vacant for one or more months?</p> <ol style="list-style-type: none"> 1 Yes 0 No 	

NEXT	If TYPEHUQ=4: CONVERSION If TYPEHUQ=5: NUMFLRS If TYPEHUQ=1: TYPEHUQ4 If TYPEHUQ in(2,3): CELLAR				
Derived		Show Card		CARI	

CONVERSION (Changed from 2009)					
ASK	If TYPEHUQ=4				
Was your building originally designed and built as an apartment building or was it converted into an apartment building? 1 Built as an apartment building 2 Converted into an apartment building					
NEXT	NUMAPTS				
Derived		Show Card		CARI	

NUMFLRS					
ASK	If TYPEHUQ=5				
How many floors are in this apartment building? 1 - 95					
NEXT	NUMAPTS				
Derived		Show Card		CARI	

NUMAPTS (Changed from 2009)					
ASK	If TYPEHUQ in(4,5)				
Approximately how many apartment units are in this building? 2 - 995					
NEXT	STUDIO				
Derived		Show Card		CARI	

TYPEHUQ4					
ASK	If TYPEHUQ=1				
<p>Does your mobile home have any permanently attached structures, such as a room or porch that is enclosed from the wind and rain, that weren't part of the mobile home when it was first manufactured?</p> <p>1 Yes 0 No</p>					
NEXT	BEDROOMS				
Derived		Show Card		CARI	

CELLAR (Changed from 2009)					
ASK	If TYPEHUQ in(2,3)				
<p>Now think about the foundation of your home. Is any part of your home built over a basement?</p> <p>1 Yes 0 No</p>					
NEXT	CRAWL				
Derived		Show Card		CARI	

CRAWL (Changed from 2009)					
ASK	If TYPEHUQ in(2,3)				
<p>Is any part of your home built over a crawl space?</p> <p>1 Yes 0 No</p>					
NEXT	CONCRETE				
Derived		Show Card		CARI	

CONCRETE (Changed from 2009)					
ASK	If TYPEHUQ in(2,3)				
<p>Is any part of your home built on a concrete slab?</p> <p>1 Yes 0 No</p>					

NEXT	If CELLAR=1: BASEFIN Else: ATTIC				
Derived		Show Card		CARI	

BASEFIN (Changed from 2009)					
ASK	If CELLAR=1				
<p>For this survey, a “finished” basement has finishing materials on the floor, ceiling, and walls. Is all, some, or none of your basement finished?</p> <p>1 All 2 Some 3 None</p>					
NEXT	ATTIC				
Derived		Show Card		CARI	

ATTIC					
ASK	If TYPEHUQ in(2,3)				
<p>An attic is an area directly below the roof, accessible by stairs, with space for you to stand upright and easily move about. Does your home have an attic?</p> <p>1 Yes 0 No</p>					
NEXT	If ATTIC=1: ATTICFIN Else: STORIES				
Derived		Show Card		CARI	

ATTICFIN (Changed from 2009)					
ASK	If ATTIC=1				
<p>For this survey, a “finished” attic has finishing materials on the floor, ceiling, and walls. Is all, some, or none of your attic finished?</p> <p>1 All 2 Some 3 None</p>					
NEXT	STORIES				
Derived		Show Card		CARI	

STUDIO					
ASK	If TYPEHUQ in(4,5)				
<p>Is your apartment a one-room efficiency or studio apartment?</p> <p>1 Yes 0 No</p>					
NEXT	If STUDIO=1: NCOMBATH Else: ONEFLRAPT				
Derived		Show Card		CARI	

ONEFLRAPT (Changed from 2009)					
ASK	If TYPEHUQ in(4,5) and STUDIO ne 1				
<p>Is the living space of your entire apartment unit on a single level?</p> <p>1 Yes 0 No</p>					
NEXT	If ONEFLRAPT=0: NAPTFILRS Else: BEDROOMS				
Derived	Yes	Show Card		CARI	

NAPTFILRS					
ASK	If ONEFLRAPT=0				
<p>How many levels does your apartment unit have?</p> <p>2 - 9</p>					
NEXT	BEDROOMS				
Derived	Yes	Show Card		CARI	

STORIES					
ASK	If TYPEHUQ in(2,3)				
<p>Place show card 3 in front of the respondent.</p> <p>Please look at Card 3. Not including basements or attics, how many stories does your home have?</p> <p>10 One story 20 Two stories 31 Three stories 32 Four or more stories 40 Split-level 50 Some other type</p>					
NEXT	If STORIES=50: STORIESFU Else: BEDROOMS				
Derived		Show Card	Yes	CARI	

STORIESFU					
ASK	If STORIES=50				
<p>Could you describe the building?</p> <p>Open response</p>					
NEXT	BEDROOMS				
Derived		Show Card		CARI	

BEDROOMS (Changed from 2009)					
ASK	If STUDIO ne 1				
<p>How many bedrooms do you have in your home? [If TYPEHUQ in(2,3): Include bedrooms in finished attics or finished basements.]</p> <p>0 - 20</p>					
NEXT	NCOMBATH				
Derived	Yes	Show Card		CARI	

NCOMBATH (Changed from 2009)					
ASK	All respondents				
<p>A full bathroom is one that has a sink with running water, a toilet, and either a bathtub or shower. How many full bathrooms do you have in your home? [If TYPEHUQ in(2,3): Include bathrooms in finished attics or finished basements.]</p> <p>0 - 9</p>					
NEXT	NHAFBATH				
Derived		Show Card		CARI	

NHAFBATH (Changed from 2009)					
ASK	All respondents				
<p>A half-bathroom is one that has either a toilet or a bathtub or a shower. How many half bathrooms do you have? [If TYPEHUQ in(2,3): Include bathrooms in finished attics or finished basements.]</p> <p>0 - 9</p>					
NEXT	OTHRROOMS				
Derived		Show Card		CARI	

OTHRROOMS (Changed from 2009)					
ASK	If STUDIO ne 1				
<p>Now think about other rooms in your home besides bedrooms and bathrooms. Not including unfinished areas, hallways, and closets, how many other rooms are there in your home? [If TYPEHUQ in(2,3): Include other rooms in finished attics or finished basements.]</p> <p>1 - 20</p>					
NEXT	If TYPEHUQ in(1,2,3): PRKGPLC1 If TYPEHUQ in(4,5): WALLTYPE				
Derived	Yes	Show Card		CARI	

TOTROOMS					
ASK					
Derived					
NEXT					
Derived	Yes	Show Card		CARI	

PRKGPLC1					
ASK	If TYPEHUQ in(1,2,3)				
<p>Does your home have a garage that is attached to or part of your home?</p> <p>1 Yes 0 No</p>					
NEXT	If PRKGPLC1=1: SIZEOFGARAGE Else: PRKGPLC2				
Derived		Show Card		CARI	

SIZEOFGARAGE					
ASK	If PRKGPLC1=1				
<p>What is the size of that attached garage? Is it a one-car garage, a two-car garage, or is it a three-or-more-car garage?</p> <p>1 One-car garage 2 Two-car garage 3 Three-or-more-car garage</p>					
NEXT	GARGLOC				
Derived		Show Card		CARI	

GARGLOC					
ASK	If PRKGPLC1=1				
<p>Is the garage attached to or part of the [If CELLAR=1: basement,] first floor, or some other floor of the home?</p> <p>1 Part of basement 2 Part of first floor 3 Some other floor</p>					
NEXT	WALLTYPE				
Derived		Show Card		CARI	

PRKGPLC2					
ASK	If PRKGPLC1=0				
<p>Does your home have a detached garage or covered carport?</p> <p>1 Yes 0 No</p>					

NEXT	If PRKGPLC2=1: SIZEOFDETACH Else: WALLTYPE				
Derived		Show Card		CARI	

SIZEOFDETACH					
ASK	If PRKGPLC2=1				
<p>Which does your home have? Is it a one-car garage, a two-car garage, a three-or-more-car garage, or is it a carport?</p> <p>1 One-car garage 2 Two-car garage 3 Three-or-more-car garage 4 Carport</p>					
NEXT	WALLTYPE				
Derived		Show Card		CARI	

WALLTYPE (Changed from 2009)					
ASK	All respondents				
<p>Place show card 4 in front of the respondent.</p> <p>Please look at Card 4. What is the major outside wall material for this housing unit?</p> <p>1 Brick 2 Wood 3 Siding 4 Stucco 5 Shingle (composition) 6 Stone 7 Concrete or concrete block 9 Other</p>					
NEXT	If WALLTYPE=9: WALLTYPEFU Else if TYPEHUQ in(1,2,3,4): ROOFTYPE Else: HIGHCEIL				
Derived		Show Card	Yes	CARI	

WALLTYPEFU					
ASK	If WALLTYPE=9				
<p>Specify the type of other outside wall material.</p> <p>Open response</p>					

NEXT	If TYPEHUQ in(1,2,3,4): ROOFTYPE Else: HIGHCEIL				
Derived		Show Card		CARI	

ROOFTYPE (Changed from 2009)					
ASK	If TYPEHUQ in(1,2,3,4)				
<p>Place show card 5 in front of the respondent.</p> <p>Please look at Card 5. What is the major roofing material on this housing unit?</p> <ul style="list-style-type: none"> 1 Ceramic or clay tiles 2 Wood shingles/shakes 3 Metal 4 Slate or synthetic shake 5 Shingles (composition or asphalt) 7 Concrete tiles 9 Other 					
NEXT	If ROOFTYPE=9: ROOFTYPEFU Else if TYPEHUQ=1: SLDDRS Else: HIGHCEIL				
Derived		Show Card	Yes	CARI	

ROOFTYPEFU					
ASK	If ROOFTYPE=9				
<p>Specify the type of other roofing material.</p> <p>Open response</p>					
NEXT	If TYPEHUQ=1: SLDDRS Else: HIGHCEIL				
Derived		Show Card		CARI	

HIGHCEIL					
ASK	If TYPEHUQ in(2,3,4,5)				
<p>Most ceilings are about 8 feet high which is about a foot higher than a standard door. Are any of the ceilings in your home unusually high?</p> <ul style="list-style-type: none"> 1 Yes 0 No 					

NEXT	If HIGHCEIL ne 0: CATHCEIL Else: SLDDRS				
Derived		Show Card		CARI	

CATHCEIL					
ASK	If HIGHCEIL ne 0				
<p>Cathedral ceilings are usually in rooms on the main floor and go all the way up to the roof. Are any of the ceilings in your home cathedral ceilings?</p> <p>1 Yes 0 No</p>					
NEXT	SLDDRS				
Derived		Show Card		CARI	

SLDDRS (Changed from 2009)					
ASK	All respondents				
<p>Does your home have any sliding glass doors?</p> <p>1 Yes 0 No</p>					
NEXT	If SLDDRS=1: DOOR1SUM Else: WINDOWS				
Derived		Show Card		CARI	

DOOR1SUM (Changed from 2009)					
ASK	If SLDDRS=1				
<p>How many sliding glass doors does your home have? Count each pair of sliding glass doors as one door.</p> <p>0 - 10</p>					
NEXT	WINDOWS				
Derived		Show Card		CARI	

WINDOWS (Changed from 2009)					
ASK	All respondents				
<p>Place show card 6 in front of the respondent.</p> <p>Please look at Card 6. About how many windows does your home have?</p> <p>10 1 to 2 20 3 to 5 30 6 to 9 41 10 to 15 42 16 to 19 50 20 to 29 60 30 or more</p>					
NEXT	TYPEGLASS				
Derived		Show Card	Yes	CARI	

TYPEGLASS (Changed from 2009)					
ASK	All respondents				
<p>Not including storm windows, which best describes the type of glass in most of the windows in your home? Is it single-pane glass, double-pane glass, or triple-pane glass?</p> <p>1 Single-pane glass 2 Double-pane glass 3 Triple-pane glass</p>					
NEXT	WINFRAME				
Derived		Show Card		CARI	

WINFRAME (New)					
ASK	All respondents				
<p>Place show card 7 in front of the respondent.</p> <p>Please look at Card 7. What frame material is used for most of the windows in your home?</p> <p>1 Wood 2 Metal (aluminum) 3 Vinyl 4 Composite 5 Fiberglass 9 Some other material</p>					

NEXT	If WINFRAME=9: WINFRAMEFU Else: NEWGLASS				
Derived		Show Card	Yes	CARI	Yes

WINFRAMEFU (New)					
ASK	If WINFRAME=9				
<p>Could you tell me what that other material is?</p> <p>Open response</p>					
NEXT	NEWGLASS				
Derived		Show Card		CARI	

NEWGLASS					
ASK	All respondents				
<p>How many of the windows in your home have been replaced since your household moved in? Is it all of the windows, some of the windows, or none of the windows?</p> <p>1 All of the windows 2 Some of the windows 3 None of the windows</p>					
NEXT	ADQINSUL				
Derived		Show Card		CARI	

ADQINSUL					
ASK	All respondents				
<p>Regarding the insulation in your home, overall, would you say that your home is well insulated, adequately insulated, or poorly insulated?</p> <p>1 Well insulated 2 Adequately insulated 3 Poorly insulated 4 No insulation (if volunteered)</p>					
NEXT	DRAFTY				
Derived		Show Card		CARI	

DRAFTY (Changed from 2009)					
ASK	All respondents				
<p>How often do you or other members of your household find your home too drafty? Would you say it is...</p> <p>1 All the time, 2 Most of the time, 3 Some of the time, or 4 Never?</p>					
NEXT	INSTLINS				
Derived		Show Card		CARI	

INSTLINS (Changed from 2009)					
ASK	All respondents				
<p>Insulation is often added to the attic, ceiling, walls, crawl space, ducts, or pipes. Has any insulation been replaced or added to your home since your household moved in?</p> <p>1 Yes 0 No</p>					
NEXT	INSTLWS				
Derived		Show Card		CARI	

INSTLWS					
ASK	All respondents				
<p>Caulking and weather stripping is often done to seal windows, doors, and ducts. Has any portion of your home been caulked or weather stripped in order to seal air leaks since your household moved in?</p> <p>1 Yes 0 No</p>					
NEXT	If TYPEHUQ in(2,3): ADDITION Else: UGASHERE				
Derived		Show Card		CARI	

ADDITION (New)					
ASK	If TYPEHUQ in(2,3)				
<p>To the best of your knowledge, have any rooms or spaces been added to your home since it was originally constructed?</p> <p>1 Yes 0 No</p>					
NEXT	UGASHERE				
Derived		Show Card	Yes	CARI	Yes

UGASHERE (New)					
ASK	All respondents				
<p>Is natural gas from underground pipes available in this neighborhood?</p> <p>1 Yes 0 No</p>					
NEXT	Section B				
Derived		Show Card		CARI	

IVCOMMAFILTER					
ASK	All respondents				
<p>Interviewer Task: If you have any comments that might suggest that the data collected in the housing unit characteristics section should be analyzed by central office staff, enter 1. If you have no comments regarding the quality of data entered in this section, enter 2.</p> <p>1 I have comments regarding the quality of data in this section 2 I do not have comments</p>					
NEXT	If IVCOMMAFILTER=1: IVCOMMA Else: Section B				
Derived		Show Card		CARI	

IVCOMMA					
ASK	If IVCOMMAFILTER=1				
<p>Interviewer Task: Record any information here about the characteristics of this housing unit that might provide clarification to the respondent's answers. Comments are not required but are encouraged to describe unique housing unit or household characteristics. Use this space to help explain extraordinary or abnormal responses.</p> <p>Open response</p>					

NEXT	Section B				
Derived		Show Card		CARI	

SECTION B: KITCHEN APPLIANCES

STOVEN (Changed from 2009)					
ASK	All respondents				
<p>Now I would like to ask you about kitchen appliances. Let's start with major cooking appliances.</p> <p style="color: blue;">Place show card 8 in front of the respondent.</p> <p>Please look at Card 8. This first picture shows a stove or range, which has both a cooktop and an oven. How many stoves do you have in your home?</p> <p style="text-align: center;">0 - 9</p>					
NEXT	If STOVEN>0: STOVENFUEL Else: STOVE				
Derived		Show Card	Yes	CARI	

STOVENFUEL (Changed from 2009)					
ASK	If STOVEN>0				
<p>What fuel does your [If STOVEN>1: most-used] stove or range use? Is it electricity, natural gas from underground pipes, propane (bottled gas), dual fuel, or some other fuel?</p> <p>5 Electricity 1 Natural gas from underground pipes 2 Propane (bottled gas) 13 Dual fuel 21 Some other fuel</p>					
NEXT	If STOVENFUEL=13: DUALCOOKTFUEL Else if STOVENFUEL=21: STOVENFUELFU Else: COOKTUSE				
Derived		Show Card		CARI	

DUALCOOKTFUEL (New)					
ASK	If STOVENFUEL=13				
<p>What fuel does the cooktop part of your dual fuel stove or range use? Is it...</p> <p>5 Electricity, 1 Natural gas from underground pipes, 2 Propane (bottled gas), or 21 Some other fuel?</p>					

NEXT	DUALOVENFUEL				
Derived		Show Card		CARI	

DUALOVENFUEL (New)					
ASK	If STOVENFUEL=13				
<p>What fuel does the oven part of your dual fuel stove or range use? Is it...</p> <p>5 Electricity, 1 Natural gas from underground pipes, 2 Propane (bottled gas), or 21 Some other fuel?</p>					
NEXT	COOKTUSE				
Derived		Show Card		CARI	

STOVENFUELFU					
ASK	If STOVENFUEL=21				
<p>Specify the type of other fuel used.</p> <p>Open response</p>					
NEXT	COOKTUSE				
Derived		Show Card		CARI	

COOKTUSE (New)					
ASK	If STOVEN>0				
<p>In a typical week, about how many times is the cooktop part of your [If STOVEN>1: most-used] stove or range used? If it's not used, then you can answer "0".</p> <p>0 - 50</p>					
NEXT	OVENUSE				
Derived		Show Card		CARI	

OVENUSE (Changed from 2009)					
ASK	If STOVEN>0				
<p>In a typical week, about how many times is the oven part of your [If STOVEN>1: most-used] stove or range used? If it's not used, then you can answer "0".</p> <p>0 - 50</p>					

NEXT	OVENCLN				
Derived		Show Card		CARI	

OVENCLN (Changed from 2009)					
ASK	If STOVEN>0				
<p>Does the oven part of your [If STOVEN>1: most-used] stove or range have a self-cleaning feature?</p> <p>1 Yes 0 No</p>					
NEXT	STOVE				
Derived		Show Card		CARI	

STOVE (Changed from 2009)					
ASK	All respondents				
<p>Place show card 8 in front of the respondent.</p> <p>Please look at Card 8. The second picture shows a separate cooktop without an oven. How many separate cooktops without an oven do you have in your home?</p> <p>0 - 9</p>					
NEXT	If STOVE>0: STOVEFUEL Else if STOVEN>0: RANGEHOOD Else: OVEN				
Derived		Show Card	Yes	CARI	

STOVEFUEL					
ASK	If STOVE>0				
<p>What fuel does your [If STOVE>1: most-used] separate cooktop use? Is it electricity, natural gas from underground pipes, propane (bottled gas) or some other fuel?</p> <p>5 Electricity 1 Natural gas from underground pipes 2 Propane (bottled gas) 21 Some other fuel</p>					
NEXT	If STOVEFUEL=21: STOVEFUELFU Else: SEPCOOKTUSE				
Derived		Show Card		CARI	

STOVEFUELFU					
ASK	If STOVEFUEL=21				
<p>Specify the type of other fuel.</p> <p>Open response</p>					
NEXT	SEPCOOKTUSE				
Derived		Show Card		CARI	

SEPCOOKTUSE (New)					
ASK	If STOVE>0				
<p>In a typical week, about how many times is your [If STOVE>1: most-used] separate cooktop used? If it's not used, then you can answer "0".</p> <p>0 - 50</p>					
NEXT	RANGEHOOD				
Derived		Show Card		CARI	

RANGEHOOD (New)					
ASK	If STOVEN>0 or STOVE>0				
<p>Does your household have a range hood or fan over your stove or cooktop?</p> <p>1 Yes 0 No</p>					
NEXT	If RANGEHOOD=1: HOODVENT Else: OVEN				
Derived		Show Card		CARI	

HOODVENT (New)					
ASK	If RANGEHOOD=1				
<p>Is your range hood or fan vented to the outside?</p> <p>1 Yes 0 No</p>					
NEXT	OVEN				
Derived		Show Card		CARI	

OVEN (Changed from 2009)					
ASK	All respondents				
<p>Place show card 8 in front of the respondent.</p> <p>Please look at Card 8. The third picture shows a separate wall oven. How many separate wall ovens do you have in your home?</p> <p>0 - 9</p>					
NEXT	If OVEN>0: OVENFUEL Else: MICRO				
Derived		Show Card	Yes	CARI	

OVENFUEL					
ASK	If OVEN>0				
<p>What fuel does your [If OVEN>1: most-used] separate wall oven use? Is it electricity, natural gas from underground pipes, propane (bottled gas) or some other fuel?</p> <p>5 Electricity 1 Natural gas from underground pipes 2 Propane (bottled gas) 21 Some other fuel</p>					
NEXT	If OVENFUEL=21: OVENFUELFU Else: SEPOVENUSE				
Derived		Show Card		CARI	

OVENFUELFU					
ASK	If OVENFUEL=21				
<p>Specify the type of other fuel.</p> <p>Open response</p>					
NEXT	SEPOVENUSE				
Derived		Show Card		CARI	

SEPOVENUSE (New)					
ASK	If OVEN>0				
<p>In a typical week, about how many times is your [If OVEN>1: most-used] separate wall oven used? If it's not used, then you can answer "0".</p> <p>0 - 50</p>					

NEXT	SEPOVENCLN				
Derived		Show Card		CARI	

SEPOVENCLN (New)					
ASK	If OVEN>0				
<p>Does your [If OVEN>1: most-used] separate wall oven have a self-cleaning feature?</p> <p>1 Yes 0 No</p>					
NEXT	MICRO				
Derived		Show Card		CARI	

MICRO (Changed from 2009)					
ASK	All respondents				
<p>How many microwaves do you have?</p> <p>0 - 9</p>					
NEXT	If MICRO>0: AMTMICRO Else: OUTGRILL				
Derived		Show Card		CARI	

AMTMICRO (Changed from 2009)					
ASK	If MICRO>0				
<p>In a typical week, about how many times is your microwave used? If it's not used, then you can answer "0".</p> <p>0 - 99</p>					
NEXT	DEFROST				
Derived		Show Card		CARI	

DEFROST					
ASK	If MICRO>0				
<p>Does your household use the microwave for defrosting?</p> <p>1 Yes 0 No</p>					

NEXT	OUTGRILL				
Derived		Show Card		CARI	

OUTGRILL					
ASK	All respondents				
<p>Does your household use an outdoor grill?</p> <p>1 Yes 0 No</p>					
NEXT	If OUTGRILL=1: OUTGRILLFUEL Else: TOPGRILL				
Derived		Show Card		CARI	

OUTGRILLFUEL (Changed from 2009)					
ASK	If OUTGRILL=1				
<p>What fuel does your outdoor grill use? Is it natural gas from underground pipes, propane (bottled gas), charcoal, or some other fuel?</p> <p>1 Natural gas from underground pipes 2 Propane (bottled gas) 23 Charcoal 21 Some other fuel</p>					
NEXT	If OUTGRILLFUEL=21: OUTGRILLFUELFU Else: TOPGRILL				
Derived		Show Card		CARI	

OUTGRILLFUELFU					
ASK	If OUTGRILLFUEL=21				
<p>Specify the type of other fuel.</p> <p>Open response</p>					
NEXT	TOPGRILL				
Derived		Show Card		CARI	

TOPGRILL					
ASK	All respondents				
<p>Does your household use a built-in indoor grill?</p> <p>1 Yes 0 No</p>					
NEXT	If TOPGRILL=1: STGRILA Else: NUMMEAL				
Derived		Show Card		CARI	

STGRILA					
ASK	If TOPGRILL=1				
<p>What fuel does your built-in indoor grill use? Is it electricity, natural gas from underground pipes, propane (bottled gas) or some other fuel?</p> <p>5 Electricity 1 Natural gas from underground pipes 2 Propane (bottled gas) 21 Some other fuel</p>					
NEXT	If STGRILA=21: STGILAFU Else: NUMMEAL				
Derived		Show Card		CARI	

STGRILAFU					
ASK	If STGRILA=21				
<p>Specify the type of other fuel.</p> <p>Open response</p>					
NEXT	NUMMEAL				
Derived		Show Card		CARI	

NUMMEAL					
ASK	All respondents				
<p>Place show card 9 in front of the respondent.</p> <p>Please look at Card 9. Which of the categories shown best describes how often hot meals are usually cooked in your home?</p> <ul style="list-style-type: none"> 1 Three or more times a day 2 Two times a day 3 Once a day 4 A few times each week 5 About once a week 6 Less than once a week 0 Doesn't cook/Never cooks (if volunteered) 					
NEXT	TOAST, TOASTOVN, COFFEE, CROCKPOT, FOODPROC, RICECOOK, MIXER, BREAD, BLENDER, WAFFLE, APPOTHER, APPNONE				
Derived		Show Card	Yes	CARI	

TOAST, TOASTOVN, COFFEE, CROCKPOT, FOODPROC, RICECOOK, MIXER, BREAD, BLENDER, WAFFLE, APPOTHER, APPNONE (New)					
ASK	All respondents				
<p>Place show card 10 in front of the respondent.</p> <p>Please look at Card 10. Which of these small kitchen appliances are used at least once a week in your home?</p> <p>Mark all that apply.</p> <ul style="list-style-type: none"> Toaster (TOAST) Toaster oven (TOASTOVN) Coffee maker (COFFEE) Crock pot or slow cooker (CROCKPOT) Food processor (FOODPROC) Rice cooker (RICECOOK) Stand mixer (MIXER) Bread maker (BREAD) Blender or juicer (BLENDER) Waffle maker (WAFFLE) Other (APPOTHER) None (APPNONE) 					
NEXT	If APPOTHER=1: SMALLAPPFU Else: NUMFRIG				
Derived		Show Card	Yes	CARI	

SMALLAPPFU (New)					
ASK	If APPOTHER=1				
<p>Could you tell me what other type of small kitchen appliances are used at least once a week in your home?</p> <p>Open response</p>					
NEXT	NUMFRIG				
Derived		Show Card		CARI	

NUMFRIG (Changed from 2009)					
ASK	All respondents				
<p>Next I'm going to ask about other kitchen appliances.</p> <p>How many refrigerators are plugged-in and turned on in your home? Include refrigerators in basements or garages, even if they are only used occasionally, and also include compact refrigerators and wine chillers.</p> <p>0 - 9</p>					
NEXT	If NUMFRIG>0: SIZERFR1 Else: SEPFREEZ				
Derived		Show Card		CARI	

SIZRFR11 (Changed from 2009)					
ASK	If NUMFRIG>0				
<p>Place show card 11 in front of the respondent.</p> <p>Please look at Card 11. How would you describe the size of [if NUMFRIG=1: your refrigerator?] [if NUMFRIG>1: the refrigerator used the most?]</p> <ol style="list-style-type: none"> 1 Half-size or compact 2 Small (17.5 cubic feet or less) 3 Medium (17.6 to 22.5 cubic feet) 4 Large (22.6 to 29.5 cubic feet) 5 Very large (bigger than 29.5 cubic feet) 					
NEXT	If SIZRFR11=1: REFRIGT1 Else: TYPERFR1				
Derived		Show Card	Yes	CARI	

TYPFR1 (Changed from 2009)					
ASK	If SIZRFR1>1				
<p>Place show card 12 in front of the respondent.</p> <p>Please look at Card 12. Which best describes this refrigerator?</p> <p>1 One door 21 Two doors, freezer next to the refrigerator 22 Two doors, freezer above the refrigerator 23 Two doors, freezer below the refrigerator 5 Three or more doors 4 Some other kind</p>					
NEXT	REFRIGT1				
Derived		Show Card	Yes	CARI	

REFRIGT1 (Changed from 2009)					
ASK	If NUMFRIG>0				
<p>What type of defrosting does this refrigerator have? Is it manual or automatic?</p> <p>1 Manual 2 Automatic 3 No working freezer section (if volunteered)</p>					
NEXT	ICE				
Derived		Show Card		CARI	

ICE (Changed from 2009)					
ASK	If NUMFRIG>0				
<p>Does this refrigerator have through-the-door ice service?</p> <p>1 Yes 0 No</p>					
NEXT	AGERFRI1				
Derived		Show Card		CARI	

AGERFRI1					
ASK	If NUMFRIG>0				
<p>Place show card 1 in front of the respondent.</p> <p>Please look at Card 1. About how old is this refrigerator? Your best estimate is fine.</p> <ul style="list-style-type: none"> 1 Less than 2 years old 2 2 to 4 years old 3 5 to 9 years old 4 10 to 14 years old 5 15 to 19 years old 6 20 years or older 7 As old as the home (if volunteered) 					
NEXT	If NUMFRIG>1: SIZERFR2 Else: SEPFREEZ				
Derived		Show Card	Yes	CARI	

SIZRFR12 (Changed from 2009)					
ASK	If NUMFRIG>1				
<p>Place show card 11 in front of the respondent.</p> <p>Now I would like to ask you the same questions about the [if NUMFRIG=2: other] [if NUMFRIG>2: second most-used] refrigerator.</p> <p>Please look at Card 11. How would you describe the size of your second refrigerator?</p> <ul style="list-style-type: none"> 1 Half-size or compact 2 Small (17.5 cubic feet or less) 3 Medium (17.6 to 22.5 cubic feet) 4 Large (22.6 to 29.5 cubic feet) 5 Very large (bigger than 29.5 cubic feet) 					
NEXT	If SIZRFR12=1: REFRIGT2 Else: TYPERFR2				
Derived		Show Card	Yes	CARI	

TYPFR2 (Changed from 2009)					
ASK	If SIZRFRI2>1				
<p>Place show card 12 in front of the respondent.</p> <p>Please look at Card 12. Which best describes this refrigerator?</p> <p>1 One door 21 Two doors, freezer next to the refrigerator 22 Two doors, freezer above the refrigerator 23 Two doors, freezer below the refrigerator 5 Three or more doors 4 Some other kind</p>					
NEXT	REFRIGT2				
Derived		Show Card	Yes	CARI	

REFRIGT2 (Changed from 2009)					
ASK	If NUMFRIG>1				
<p>What type of defrosting does this refrigerator have? Is it manual or automatic?</p> <p>1 Manual 2 Automatic 3 No working freezer section (if volunteered)</p>					
NEXT	MONRFRI2				
Derived		Show Card		CARI	

MONRFRI2 (Changed from 2009)					
ASK	If NUMFRIG>1				
<p>In the last year, how many months was this refrigerator plugged in and turned on?</p> <p>0-12</p>					
NEXT	AGERFRI2				
Derived		Show Card		CARI	

AGERFRI2					
ASK	If NUMFRIG>1				
<p>Place show card 1 in front of the respondent.</p> <p>Please look at Card 1. About how old is this refrigerator? Your best estimate is fine.</p> <ul style="list-style-type: none"> 1 Less than 2 years old 2 2 to 4 years old 3 5 to 9 years old 41 10 to 14 years old 42 15 to 19 years old 5 20 years or older 6 As old as the home (if volunteered) 					
NEXT	LOCRFRI2				
Derived		Show Card	Yes	CARI	

LOCRFRI2 (New)					
ASK	If NUMFRIG>1				
<p>Where is your second most used refrigerator located? Is it the...</p> <ul style="list-style-type: none"> 1 Basement 2 Garage 3 Outside 4 Main floor of house 9 Other 					
NEXT	If LOCRFRI2=9: LOCRFRI2FU Else if NUMFRIG>2: SIZRFRI3 Else: SEPFREEZ				
Derived		Show Card		CARI	

LOCRFRI2FU (New)					
ASK	If LOCRFRI2=9				
<p>Could you tell me what that other location is?</p> <p>Open response</p>					
NEXT	If NUMFRIG>2: SIZERFR3 Else: SEPFREEZ				
Derived		Show Card		CARI	

SIZRFRI3 (Changed from 2009)					
ASK	If NUMFRIG>2				
<p>Place show card 11 in front of the respondent.</p> <p>Now I would like to ask you the same questions about your third-most used refrigerator.</p> <p>Please look at Card 11. How would you describe the size of your third refrigerator?</p> <ul style="list-style-type: none"> 1 Half-size or compact 2 Small (17.5 cubic feet or less) 3 Medium (17.6 to 22.5 cubic feet) 4 Large (22.6 to 29.5 cubic feet) 5 Very large (bigger than 29.5 cubic feet) 					
NEXT	If SIZRFRI3=1: REFRIGT3 Else: TYPERFR3				
Derived		Show Card	Yes	CARI	

TYPERFR3 (Changed from 2009)					
ASK	If SIZRFRI3>1				
<p>Place show card 12 in front of the respondent.</p> <p>Please look at Card 12. Which best describes this refrigerator?</p> <ul style="list-style-type: none"> 1 One door 21 Two doors, freezer next to the refrigerator 22 Two doors, freezer above the refrigerator 23 Two doors, freezer below the refrigerator 5 Three or more doors 4 Some other kind 					
NEXT	REFRIGT3				
Derived		Show Card	Yes	CARI	

REFRIGT3 (Changed from 2009)					
ASK	If NUMFRIG>2				
<p>What type of defrosting does this refrigerator have? Is it manual or automatic?</p> <ul style="list-style-type: none"> 1 Manual 2 Automatic 3 No working freezer section (if volunteered) 					

NEXT	MONRFRI3				
Derived		Show Card		CARI	

MONRFRI3 (Changed from 2009)					
ASK	If NUMFRIG>2				
<p>In the last year, how many months was this refrigerator plugged in and turned on?</p> <p>0 - 12</p>					
NEXT	AGERFRI3				
Derived		Show Card		CARI	

AGERFRI3					
ASK	If NUMFRIG>2				
<p>Place show card 1 in front of the respondent.</p> <p>Please look at Card 1. About how old is this refrigerator?</p> <p>1 Less than 2 years old 2 2 to 4 years old 3 5 to 9 years old 41 10 to 14 years old 42 15 to 19 years old 5 20 years or older 6 As old as the home (if volunteered)</p>					
NEXT	SEPFREEZ				
Derived		Show Card	Yes	CARI	

SEPFREEZ					
ASK	All respondents				
<p>Does your household use a separate freezer that is not part of a refrigerator?</p> <p>1 Yes 0 No</p>					
NEXT	If SEPFREEZ=1: NUMFREEZ Else: DISHWASH				
Derived		Show Card		CARI	

NUMFREEZ (Changed from 2009)					
ASK	If SEPFREEZ=1				
<p>How many separate freezers are used in your home?</p> <p>1 - 9</p>					
NEXT	UPRTRFRZR				
Derived		Show Card		CARI	

UPRTRFRZR (Changed from 2009)					
ASK	If SEPFREEZ=1				
<p>[If NUMFREEZ>1: Now I would like to ask some questions about the separate freezer that is used the most.]</p> <p>What model freezer is this? Is it an upright or is it a chest type?</p> <p>1 Upright 2 Chest</p>					
NEXT	SIZFREEZ				
Derived		Show Card		CARI	

SIZFREEZ (Changed from 2009)					
ASK	If SEPFREEZ=1				
<p>Place show card 11 in front of the respondent.</p> <p>Please look at Card 11. How would you describe the size of this freezer?</p> <p>1 Half-size or compact 2 Small (17.5 cubic feet or less) 3 Medium (17.6 to 22.5 cubic feet) 4 Large (22.6 to 29.5 cubic feet) 5 Very large (bigger than 29.5 cubic feet)</p>					
NEXT	FREEZER				
Derived		Show Card	Yes	CARI	

FREEZER (Changed from 2009)					
ASK	If SEPFREEZ=1				
<p>What type of defrosting does this freezer have? Is it manual or automatic?</p> <p>1 Manual 2 Automatic</p>					
NEXT	AGEFRZR				
Derived		Show Card		CARI	

AGEFRZR					
ASK	If SEPFREEZ=1				
<p>Place show card 1 in front of the respondent.</p> <p>Please look at Card 1. About how old is this freezer?</p> <p>1 Less than 2 years old 2 2 to 4 years old 3 5 to 9 years old 41 10 to 14 years old 42 15 to 19 years old 5 20 years or older 6 As old as the home (if volunteered)</p>					
NEXT	If NUMFREEZ>1: UPRTFRZR2 Else: DISHWASH				
Derived		Show Card	Yes	CARI	

UPRTFRZR2					
ASK	If NUMFREEZ>1				
<p>Now I would like to ask you the same questions about your second [If NUMFREEZ>2: most used] freezer.</p> <p>What model freezer is this? Is it an upright or is it a chest type?</p> <p>1 Upright 2 Chest</p>					
NEXT	SIZFREEZ2				
Derived		Show Card		CARI	

SIZFREEZ2 (Changed from 2009)					
ASK	If NUMFREEZ>1				
<p>Place show card 11 in front of the respondent.</p> <p>Please look at Card 11. How would you describe the size of this freezer?</p> <ul style="list-style-type: none"> 1 Half-size or compact 2 Small (17.5 cubic feet or less) 3 Medium (17.6 to 22.5 cubic feet) 4 Large (22.6 to 29.5 cubic feet) 5 Very large (bigger than 29.5 cubic feet) 					
NEXT	FREEZER2				
Derived		Show Card	Yes	CARI	

FREEZER2 (Changed from 2009)					
ASK	If NUMFREEZ>1				
<p>What type of defrosting does this freezer have? Is it manual or automatic?</p> <ul style="list-style-type: none"> 1 Manual 2 Automatic 					
NEXT	AGEFRZR2				
Derived		Show Card		CARI	

AGEFRZR2					
ASK	If NUMFREEZ>1				
<p>Place show card 1 in front of the respondent.</p> <p>Please look at Card 1. About how old is this freezer?</p> <ul style="list-style-type: none"> 1 Less than 2 years old 2 2 to 4 years old 3 5 to 9 years old 41 10 to 14 years old 42 15 to 19 years old 5 20 years or older 6 As old as the home (if volunteered) 					
NEXT	DISHWASH				
Derived		Show Card	Yes	CARI	

DISHWASH (Changed from 2009)					
ASK	All respondents				
<p>Does your household have a dishwasher?</p> <p>1 Yes 0 No</p>					
NEXT	If DISHWASH=1: DWASHUSE Else: IVCOMMBFILTER				
Derived		Show Card		CARI	

DWASHUSE (Changed from 2009)					
ASK	If DISHWASH=1				
<p>In a typical week, about how many times is your dishwasher used? If it's not used, then you can answer "0".</p> <p>0 - 50</p>					
NEXT	AGEDW				
Derived		Show Card		CARI	Yes

AGEDW					
ASK	If DISHWASH=1				
<p>Place show card 1 in front of the respondent.</p> <p>Please look at Card 1. About how old is your dishwasher? Your best estimate is fine.</p> <p>1 Less than 2 years old 2 2 to 4 years old 3 5 to 9 years old 41 10 to 14 years old 42 15 to 19 years old 5 20 years or older 6 As old as the home (if volunteered)</p>					
NEXT	DWCYCLE				
Derived		Show Card	Yes	CARI	

DWCYCLE (New)					
ASK	If DISHWASH=1				
<p>Place show card 13 in front of the respondent.</p> <p>Please look at Card 13. Which cycle is used most of the time when running your dishwasher?</p> <ul style="list-style-type: none"> 1 Normal or default cycle without heated dry 2 Normal or default cycle with heated dry 3 Heavy or "pots and pans" cycle 4 Light or delicate cycle 5 Energy saver 0 Dishwasher not used 					
NEXT	IVCOMMBFILTER				
Derived		Show Card	Yes	CARI	

IVCOMMBFILTER					
ASK	All respondents				
<p>Interviewer Task: If you have any comments that might suggest that the data collected in the kitchen appliances section should be analyzed by central office staff, enter 1. If you have no comments regarding the quality of data entered in this section, enter 2.</p> <ul style="list-style-type: none"> 1 I have comments regarding the quality of data in this section 2 I do not have comments 					
NEXT	If IVCOMMBFILTER=1: IVCOMMB Else: Section C				
Derived		Show Card		CARI	

IVCOMMB					
ASK	If IVCOMMBFILTER=1				
<p>Interviewer Task: Record any information here about the kitchen appliances in this housing unit that might provide clarification to the respondent's answers. Comments are not required but are encouraged to describe unique housing unit or household characteristics. Use this space to help explain extraordinary or abnormal responses.</p> <p>Open response</p>					
NEXT	Section C				
Derived		Show Card		CARI	

SECTION C: HOME APPLIANCES AND ELECTRONICS

CWASHER (Changed from 2009)					
ASK	All respondents				
<p>The next group of questions is about laundry appliances in your home.</p> <p>Does your household have a clothes washer? [If TYPEHUQ in(4,5): Do not include community clothes washers that are located in the basement or laundry room of your apartment building.]</p> <p>1 Yes 0 No</p>					
NEXT	If CWASHER=1: TOPFRONT Else: DRYER				
Derived		Show Card		CARI	

TOPFRONT (Changed from 2009)					
ASK	If CWASHER=1				
<p>Is your clothes washer top loading or front loading?</p> <p>1 Top loading 2 Front loading</p>					
NEXT	WASHLOAD				
Derived		Show Card		CARI	

WASHLOAD (Changed from 2009)					
ASK	If CWASHER=1				
<p>In a typical week, about how many times is your clothes washer used? If it's not used, then you can answer "0".</p> <p>0 - 50</p>					
NEXT	WASHTEMP				
Derived		Show Card		CARI	Yes

WASHTEMP					
ASK	If CWASHER=1				
<p>What water temperature setting is typically used for the wash cycle of your clothes washer? Is it hot, warm, or cold water?</p> <p>1 Hot 2 Warm 3 Cold</p>					
NEXT	RNSETEMP				
Derived		Show Card		CARI	

RNSETEMP					
ASK	If CWASHER=1				
<p>What water temperature setting is typically used for the rinse cycle of your clothes washer? Is it hot, warm, or cold water?</p> <p>1 Hot 2 Warm 3 Cold</p>					
NEXT	AGECWASH				
Derived		Show Card		CARI	

AGECWASH					
ASK	If CWASHER=1				
<p>Place show card 1 in front of the respondent.</p> <p>Please look at Card 1. About how old is your clothes washer? Your best estimate is fine.</p> <p>1 Less than 2 years old 2 2 to 4 years old 3 5 to 9 years old 4 10 to 14 years old 5 15 to 19 years old 6 20 years or older 7 As old as the home (if volunteered)</p>					
NEXT	DRYER				
Derived		Show Card	Yes	CARI	

DRYER (Changed from 2009)					
ASK	All respondents				
<p>Does your household have a clothes dryer? [If TYPEHUQ in(4,5): Do not include community clothes dryers that are located in the basement or laundry room of your apartment building.]</p> <p>1 Yes 0 No</p>					
NEXT	If DRYER=1: DRYRFUEL Else: TVCOLOR				
Derived		Show Card		CARI	

DRYRFUEL					
ASK	If DRYER=1				
<p>What fuel does your clothes dryer use? Is it electricity, natural gas from underground pipes, or propane (bottled gas)?</p> <p>5 Electricity 1 Natural gas from underground pipes 2 Propane (bottled gas)</p>					
NEXT	DRYRUSE				
Derived		Show Card		CARI	

DRYRUSE (Changed from 2009)					
ASK	If DRYER=1				
<p>In a typical week, about how many times is your clothes dryer used? If it's not used, then you can answer "0".</p> <p>0 - 50</p>					
NEXT	AGECDRYER				
Derived		Show Card		CARI	

AGECDRYER					
ASK	If DRYER=1				
<p>Place show card 1 in front of the respondent.</p> <p>Please look at Card 1. About how old is your clothes dryer? Your best estimate is fine.</p> <p>1 Less than 2 years old 2 2 to 4 years old 3 5 to 9 years old 41 10 to 14 years old 42 15 to 19 years old 5 20 years or older 6 As old as the home (if volunteered)</p>					
NEXT	TVCOLOR				
Derived		Show Card	Yes	CARI	

TVCOLOR (Changed from 2009)					
ASK	All respondents				
<p>Now I'm going to ask some questions about your televisions and other electronic devices.</p> <p>How many televisions are used in your home?</p> <p>0 - 15</p>					
NEXT	If TVCOLOR>0: TVSIZE1 Else: DESKTOP				
Derived		Show Card		CARI	

TVSIZE1 (Changed from 2009)					
ASK	If TVCOLOR>0				
<p>Place show card 14 in front of the respondent.</p> <p>Please look at Card 14. What is the size of your [If TVCOLOR>1: most-used] television?</p> <p>1 27 inches or less 2 Between 28 and 39 inches 3 Between 40 and 59 inches 4 60 inches or more</p>					
NEXT	TVTYPE1				
Derived		Show Card	Yes	CARI	

TVTYPE1 (Changed from 2009)					
ASK	If TVCOLOR>0				
<p>Place show card 15 in front of the respondent.</p> <p>Please look at Card 15. What type of display does your [If TVCOLOR>1: most-used] television have?</p> <ul style="list-style-type: none"> 1 LCD 2 Plasma 3 LED 4 Projection 5 Standard Tube 					
NEXT	TVONWD1				
Derived		Show Card	Yes	CARI	

TVONWD1 (Changed from 2009)					
ASK	If TVCOLOR>0				
<p>Place show card 16 in front of the respondent.</p> <p>Please look at Card 16. Thinking about this television's use on weekdays, how many hours is this television turned on each day? Include the time it is on even if no one is actually watching it.</p> <ul style="list-style-type: none"> 1 Less than 1 hour 2 1 to 3 hours 3 4 to 6 hours 4 7 to 10 hours 5 More than 10 hours 					
NEXT	TVONWE1				
Derived		Show Card	Yes	CARI	

TVONWE1 (Changed from 2009)					
ASK	If TVCOLOR>0				
<p>Thinking about this television's use on weekends, how many hours is this television turned on each day? Include the time it is on even if no one is actually watching it.</p> <ul style="list-style-type: none"> 1 Less than 1 hour 2 1 to 3 hours 3 4 to 6 hours 4 7 to 10 hours 5 More than 10 hours 					

NEXT	If TVCOLOR>1: TVSIZE2 Else: CABLESAT				
Derived		Show Card	Yes	CARI	

TVSIZE2 (Changed from 2009)					
ASK	If TVCOLOR>1				
<p>Place show card 14 in front of the respondent.</p> <p>Please look at Card 14. What is the size of your second most used television?</p> <ul style="list-style-type: none"> 1 27 inches or less 2 Between 28 and 39 inches 3 Between 40 and 59 inches 4 60 inches or more 					
NEXT	TVTYPE2				
Derived		Show Card	Yes	CARI	

TVTYPE2 (Changed from 2009)					
ASK	If TVCOLOR>1				
<p>Place show card 15 in front of the respondent.</p> <p>Please look at Card 15. What type of display does the second most used television have?</p> <ul style="list-style-type: none"> 1 LCD 2 Plasma 3 LED 4 Projection 5 Standard Tube 					
NEXT	TVONWD2				
Derived		Show Card	Yes	CARI	

TVONWD2 (Changed from 2009)					
ASK	If TVCOLOR>1				
<p>Place show card 16 in front of the respondent.</p> <p>Please look at Card 16. Thinking about this television's use on weekdays, how many hours is this television turned on each day? Include the time it is on even if no one is actually watching it.</p> <ul style="list-style-type: none"> 1 Less than 1 hour 2 1 to 3 hours 3 4 to 6 hours 4 7 to 10 hours 5 More than 10 hours 					
NEXT	TVONWE2				
Derived		Show Card	Yes	CARI	

TVONWE2 (Changed from 2009)					
ASK	If TVCOLOR>1				
<p>Thinking about this television's use on weekends, how many hours is this television turned on each day? Include the time it is on even if no one is actually watching it.</p> <ul style="list-style-type: none"> 1 Less than 1 hour 2 1 to 3 hours 3 4 to 6 hours 4 7 to 10 hours 5 More than 10 hours 					
NEXT	If TVCOLOR>2: TVSIZE3 Else: CABLESAT				
Derived		Show Card	Yes	CARI	

TVSIZE3 (Changed from 2009)					
ASK	If TVCOLOR>2				
<p>Place show card 14 in front of the respondent.</p> <p>Please look at Card 14. What is the size of your third most used television?</p> <ul style="list-style-type: none"> 1 27 inches or less 2 Between 28 and 39 inches 3 Between 40 and 59 inches 4 60 inches or more 					

NEXT	TVTYPE3				
Derived		Show Card	Yes	CARI	

TVTYPE3 (Changed from 2009)					
ASK	If TVCOLOR>2				
<p>Place show card 15 in front of the respondent.</p> <p>Please look at Card 15. What type of display does the third most used television have?</p> <ul style="list-style-type: none"> 1 LCD 2 Plasma 3 LED 4 Projection 5 Standard Tube 					
NEXT	TVONWD3				
Derived		Show Card	Yes	CARI	

TVONWD3 (Changed from 2009)					
ASK	If TVCOLOR>2				
<p>Place show card 16 in front of the respondent.</p> <p>Please look at Card 16. Thinking about this television's use on weekdays, how many hours is this television turned on each day? Include the time it is on even if no one is actually watching it.</p> <ul style="list-style-type: none"> 1 Less than 1 hour 2 1 to 3 hours 3 4 to 6 hours 4 7 to 10 hours 5 More than 10 hours 					
NEXT	TVONWE3				
Derived		Show Card	Yes	CARI	

TVONWE3 (Changed from 2009)					
ASK	If TVCOLOR>2				
<p>Thinking about this television's use on weekends, how many hours is this television turned on each day? Include the time it is on even if no one is actually watching it.</p> <ul style="list-style-type: none"> 1 Less than 1 hour 2 1 to 3 hours 3 4 to 6 hours 4 7 to 10 hours 5 More than 10 hours 					

NEXT	CABLESAT				
Derived		Show Card	Yes	CARI	

CABLESAT (New)					
ASK	If TVCOLOR>0				
<p>Now I'm going to ask about devices that may be connected to televisions. How many of each of the following are used in your home?</p> <p>Cable or satellite box without DVR</p> <p>0 - 15</p>					
NEXT	COMBODVR				
Derived		Show Card		CARI	Yes

COMBODVR (New)					
ASK	If TVCOLOR>0				
<p>Cable or satellite box with DVR</p> <p>0 - 15</p>					
NEXT	SEPDVR				
Derived		Show Card		CARI	Yes

SEPDVR (New)					
ASK	If TVCOLOR>0				
<p>Separate DVR (for example, TIVO)</p> <p>0 - 15</p>					
NEXT	PLAYSTA				
Derived		Show Card		CARI	Yes

PLAYSTA (New)					
ASK	If TVCOLOR>0				
<p>Video game console</p> <p>0 - 15</p>					

NEXT	DVD				
Derived		Show Card		CARI	Yes

DVD (New)					
ASK	If TVCOLOR>0				
DVD or Blu-ray player 0 - 15					
NEXT	VCR				
Derived		Show Card		CARI	Yes

VCR (New)					
ASK	If TVCOLOR>0				
VCR 0 - 15					
NEXT	INTSTREAM				
Derived		Show Card		CARI	Yes

INTSTREAM (New)					
ASK	If TVCOLOR>0				
Internet streaming device (for example: Apple TV, Google Chromecast, Slingbox, or Roku) 0 - 15					
NEXT	TVAUDIOSYS				
Derived		Show Card		CARI	Yes

TVAUDIOSYS (New)					
ASK	If TVCOLOR>0				
Home theater or audio system 0 – 15					

NEXT	If PLAYSTA1=1: VGUSAGE Else: DESKTOP				
Derived		Show Card		CARI	Yes

VGUSAGE (New)					
ASK	If PLAYSTA=1				
<p>Place show card 16 in front of the respondent.</p> <p>Please look at Card 16. How many hours a day does your household use your video game consoles?</p> <p>1 Less than 1 hour 2 1 to 3 hours 3 4 to 6 hours 4 7 to 10 hours 5 More than 10 hours</p>					
NEXT	DESKTOP				
Derived		Show Card	Yes	CARI	

DESKTOP (New)					
ASK	All respondents				
<p>Now let's talk about computers. How many of each of the following are used in your home?</p> <p>Desktop computers</p> <p>0-15</p>					
NEXT	NUMLAPTOP				
Derived		Show Card		CARI	

NUMLAPTOP (New)					
ASK	All respondents				
<p>Laptop computers</p> <p>0-15</p>					
NEXT	NUMTABLET				
Derived		Show Card		CARI	

NUMTABLET (New)					
ASK	All respondents				
Tablet computers or e-readers (for example: iPad or Kindle)					
0-15					
NEXT	ELPERIPH				
Derived		Show Card		CARI	

ELPERIPH (New)					
ASK	All respondents				
Printers, scanners, fax machines, or copiers					
0-15					
NEXT	NUMSMPHONE				
Derived		Show Card		CARI	

NUMSMPHONE (New)					
ASK	All respondents				
"Smart" phones (for example: iPhone)					
0-15					
NEXT	CELLPHONE				
Derived		Show Card		CARI	

CELLPHONE (New)					
ASK	All respondents				
Other cellular phones					
0-15					
NEXT	If DESKTOP+NUMLAPTOP+NUMTABLET>1 and ((DESKTOP>0 and NUMLAPTOP>0) or (NUMLAPTOP>0 and NUMTABLET>0) or (DESKTOP>0 and NUMTABLET>0)): PCTYPE1 Else if DESKTOP+NUMLAPTOP+NUMTABLET>0: TIMEON1 Else: INTERNET				
Derived		Show Card		CARI	

PCTYPE1 (Changed from 2009)					
ASK	If DESKTOP+NUMLAPTOP+NUMTABLET>1 and ((DESKTOP>0 and NUMLAPTOP>0) or (NUMLAPTOP>0 and NUMTABLET>0) or (DESKTOP>0 and NUMTABLET>0))				
Thinking about the most-used computer, is it a desktop, a laptop, or a tablet?					
1 Desktop 2 Laptop 3 Tablet					
NEXT	TIMEON1				
Derived		Show Card		CARI	

TIMEON1 (Changed from 2009)					
ASK	If DESKTOP+NUMLAPTOP+NUMTABLET>0				
Place show card 16 in front of the respondent.					
Please look at Card 16. Thinking about the [If DESKTOP+NUMLAPTOP+NUMTABLET>1: most used] computer, how many hours each day is it used?					
1 Less than 1 hour 2 1 to 3 hours 3 4 to 6 hours 4 7 to 10 hours 5 More than 10 hours					
NEXT	If DESKTOP+NUMLAPTOP+NUMTABLET>2 and ((DESKTOP>0 and NUMLAPTOP>0) or (NUMLAPTOP>0 and NUMTABLET>0) or (DESKTOP>0 and NUMTABLET>0)): PCTYPE2 Else if DESKTOP+NUMLAPTOP+NUMTABLET>1: TIMEON2 Else: INTERNET				
Derived		Show Card	Yes	CARI	

PCTYPE2 (Changed from 2009)					
ASK	If DESKTOP+NUMLAPTOP+NUMTABLET>2 and ((DESKTOP>0 and NUMLAPTOP>0) or (NUMLAPTOP>0 and NUMTABLET>0) or (DESKTOP>0 and NUMTABLET>0))				
Thinking about the second most used computer, is it a desktop, a laptop, or a tablet?					
1 Desktop 2 Laptop 3 Tablet					
NEXT	TIMEON2				
Derived		Show Card		CARI	

TIMEON2 (Changed from 2009)					
ASK	If DESKTOP+NUMLAPTOP+NUMTABLET>1				
<p>Place show card 16 in front of the respondent.</p> <p>Please look at Card 16. Thinking about the second most used computer, how many hours each day is it used?</p> <ul style="list-style-type: none"> 1 Less than 1 hour 2 1 to 3 hours 3 4 to 6 hours 4 7 to 10 hours 5 More than 10 hours 					
NEXT	If DESKTOP+NUMLAPTOP+NUMTABLET>3 and ((DESKTOP>0 and NUMLAPTOP>0) or (NUMLAPTOP>0 and NUMTABLET>0) or (DESKTOP>0 and NUMTABLET>0)): PCTYPE3 Else if DESKTOP+NUMLAPTOP+NUMTABLET>2: TIMEON3 Else: INTERNET				
Derived		Show Card	Yes	CARI	

PCTYPE3 (Changed from 2009)					
ASK	If DESKTOP+NUMLAPTOP+NUMTABLET>3 and ((DESKTOP>0 and NUMLAPTOP>0) or (NUMLAPTOP>0 and NUMTABLET>0) or (DESKTOP>0 and NUMTABLET>0))				
<p>Thinking about the third most used computer, is it a desktop, a laptop, or a tablet?</p> <ul style="list-style-type: none"> 1 Desktop 2 Laptop 3 Tablet 					
NEXT	TIMEON3				
Derived		Show Card		CARI	

TIMEON3 (Changed from 2009)					
ASK	If DESKTOP+NUMLAPTOP+NUMTABLET>2				
<p>Place show card 16 in front of the respondent.</p> <p>Please look at Card 16. Thinking about the third most used computer, how many hours each day is it used?</p> <ul style="list-style-type: none"> 1 Less than 1 hour 2 1 to 3 hours 3 4 to 6 hours 4 7 to 10 hours 5 More than 10 hours 					

NEXT	INTERNET				
Derived		Show Card	Yes	CARI	

INTERNET (Changed from 2009)					
ASK	All respondents				
<p>In your home, do you or any member of your household access the Internet?</p> <p>1 Yes 0 No</p>					
NEXT	If INTERNET=1: INWIRELESS Else: AQUARIUM				
Derived		Show Card		CARI	

INWIRELESS (Changed from 2009)					
ASK	If INTERNET=1				
<p>Is a wireless router used in your home for accessing the Internet?</p> <p>1 Yes 0 No</p>					
NEXT	AQUARIUM				
Derived		Show Card		CARI	

AQUARIUM (Changed from 2009)					
ASK	All respondents				
<p>Are any of the following used in your home?</p> <p>Any large heated aquariums or 20 gallons or more?</p> <p>1 Yes 0 No</p>					
NEXT	If TYPEHUQ in(1,2,3): WELLPUMP Else if SCFLAG=1 (only respondents in certain states): SWAMPCOL Else if DSFLAG=1 (only respondents in certain states): DIPSTICK Else: SECURITY				
Derived		Show Card		CARI	

WELLPUMP (Changed from 2009)					
ASK	If TYPEHUQ in(1,2,3)				
<p>An electric pump for well water?</p> <p>1 Yes 0 No</p>					
NEXT	<p>If SCFLAG=1 (only respondents in certain states): SWAMPCOL Else if DSFLAG=1 (only respondents in certain states): DIPSTICK Else: SECURITY</p>				
Derived		Show Card		CARI	

SWAMPCOL					
ASK	If SCFLAG=1 (only respondents in certain states)				
<p>An evaporative or swamp cooler?</p> <p>1 Yes 0 No</p>					
NEXT	<p>If DSFLAG=1 (only respondents in certain states): DIPSTICK Else: SECURITY</p>				
Derived		Show Card		CARI	

DIPSTICK					
ASK	If DSFLAG=1 (only respondents in certain states)				
<p>Any automobile block heaters, dip-stick engine heaters, or battery blankets?</p> <p>1 Yes 0 No</p>					
NEXT	SECURITY				
Derived		Show Card		CARI	

SECURITY (New)					
ASK	All respondents				
<p>Home security system?</p> <p>1 Yes 0 No</p>					

NEXT	If TYPEHUQ in(1,2,3): SPRINKLER Else: MEDICALDEV				
Derived		Show Card		CARI	

SPRINKLER (New)					
ASK	If TYPEHUQ in(1,2,3)				
<p>Outdoor sprinkler system?</p> <p>1 Yes 0 No</p>					
NEXT	MEDICALDEV				
Derived		Show Card		CARI	

MEDICALDEV (New)					
ASK	All respondents				
<p>Medical devices, such as ventilators, nebulizers, or CPAP machines?</p> <p>1 Yes 0 No</p>					
NEXT	VACUUM				
Derived		Show Card		CARI	

VACUUM (New)					
ASK	All respondents				
<p>Which of these types of rechargeable devices are typically plugged in in your home?</p> <p>Rechargeable handheld or stick vacuum?</p> <p>1 Yes 0 No</p>					
NEXT	FLASH				
Derived		Show Card		CARI	

FLASH (New)					
ASK	All respondents				
Rechargeable flashlight? 1 Yes 0 No					
NEXT	TOOTH				
Derived		Show Card		CARI	

TOOTH (New)					
ASK	All respondents				
Rechargeable electric toothbrush? 1 Yes 0 No					
NEXT	RAZOR				
Derived		Show Card		CARI	

RAZOR (New)					
ASK	All respondents				
Rechargeable electric razor? 1 Yes 0 No					
NEXT	DRILL				
Derived		Show Card		CARI	

DRILL (New)					
ASK	All respondents				
Rechargeable drill or other power tool? 1 Yes 0 No					
NEXT	IVCOMMCFILTER				
Derived		Show Card		CARI	

IVCOMMCFILTER					
ASK	All respondents				
<p>Interviewer Task: If you have any comments that might suggest that the data collected in the household appliances and electronics section should be analyzed by central office staff, enter 1. If you have no comments regarding the quality of data entered in this section, enter 2.</p> <p>1 I have comments regarding the quality of data in this section 2 I do not have comments</p>					
NEXT	If IVCOMMCFILTER=1: IVCOMMC Else: Section D				
Derived		Show Card		CARI	

IVCOMMC					
ASK	If IVCOMMCFILTER=1				
<p>Interviewer Task: Record any information here about the other appliances in this housing unit that might provide clarification to the respondent's answers.</p> <p>Open response</p>					
NEXT	Section D				
Derived		Show Card		CARI	

SECTION D: SPACE HEATING

HEATHOME					
ASK	All respondents				
<p>Now I have some questions about heating your home.</p> <p>Is your home heated during the winter?</p> <p style="margin-left: 40px;">1 Yes 0 No</p>					
NEXT	If TYPEHUQ in (4,5) and HEATHOME=1: APTHEAT If TYPEHUQ in (1,2,3) and HEATHOME=1: EQUIPM If HEATHOME=0: DNTHEAT Else: MOISTURE				
Derived		Show Card		CARI	

DNTHEAT					
ASK	If HEATHOME=0				
<p>You have just told me that you don't heat your home during the winter. Just to clarify, is it that you have heating equipment but don't use it, or does your home just not have any heating equipment?</p> <p style="margin-left: 40px;">1 Have equipment, but don't use it 2 Don't have equipment</p>					
NEXT	If DNTHEAT=1: EQUIPNOHEAT Else: MOISTURE				
Derived		Show Card		CARI	

EQUIPNOHEAT (Changed from 2009)					
ASK	If DNTHEAT=1				
<p>Place show card 17 in front of the respondent.</p> <p>Even though you don't heat your home, we are still interested to know the type of equipment you have. Please look at Card 17. What type of heating equipment do you have?</p> <ul style="list-style-type: none"> 3 Central furnace 4 Heat pump 2 Steam/hot water system with radiators or pipes 5 Built-in electric units installed in walls, ceilings, baseboards, or floors 6 Built-in floor/wall pipeless furnace 7 Built-in room heater burning oil, gas, or kerosene 8 Heating stove burning wood 10 Portable electric heaters 11 Portable kerosene heaters 9 Fireplace 12 Cooking stove or oven 21 Some other equipment 					
NEXT	If EQUIPNOHEAT=21: EQUIPNOHEATFU Else: FUELNOHEAT				
Derived		Show Card	Yes	CARI	

EQUIPNOHEATFU					
ASK	If EQUIPNOHEAT=21				
<p>Could you tell me what that other heating equipment is?</p> <p>Open response</p>					
NEXT	FUELNOHEAT				
Derived		Show Card		CARI	

FUELNOHEAT					
ASK	If HEATHOME=0				
<p>Place show card 18 in front of the respondent.</p> <p>Please look at Card 18. What is the main fuel used for this heating equipment?</p> <ul style="list-style-type: none"> 5 Electricity 1 Natural gas from underground pipes 2 Propane (bottled gas) 3 Fuel oil 4 Kerosene 7 Wood 8 Solar 9 District steam 21 Some other fuel 					
NEXT	If FUELNOHEAT=21: FUELNOHEATFU Else: MOISTURE				
Derived		Show Card	Yes	CARI	

FUELNOHEATFU					
ASK	If FUELNOHEAT=21				
<p>Specify the type of other fuel.</p> <p>Open response</p>					
NEXT	MOISTURE				
Derived		Show Card		CARI	

APTHEAT (New)					
ASK	If TYPEHUQ in (4,5) and HEATHOME=1				
<p>Is the main heating equipment for your apartment inside your home or is it in another part of this building?</p> <ul style="list-style-type: none"> 1 Main heating equipment inside my apartment 2 In another part of the building 					
NEXT	EQUIPM				
Derived		Show Card		CARI	

EQUIPM (Changed from 2009)					
ASK	If HEATHOME=1				
<p>Place show card 17 in front of the respondent.</p> <p>Let's start with the main source of heating in your home. Please look at Card 17. Please tell me which type of heating equipment provides most of the heat for your home.</p> <ul style="list-style-type: none"> 3 Central furnace 4 Heat pump 2 Steam/hot water system with radiators or pipes 5 Built-in electric units installed in walls, ceilings, baseboards, or floors 6 Built-in floor/wall pipeless furnace 7 Built-in room heater burning oil, gas, or kerosene 8 Heating stove burning wood 10 Portable electric heaters 11 Portable kerosene heaters 9 Fireplace 12 Cooking stove or oven 21 Some other equipment 					
NEXT	If EQUIPM=21: EQUIPMFU If EQUIPM in(3,4): NUMEQUIPM If EQUIPM=10: NUMPORTELHEAT1 If EQUIPM in(5,8,11): MAINTHT Else: FUELHEAT				
Derived		Show Card	Yes	CARI	Yes

EQUIPMFU					
ASK	If EQUIPM=21				
<p>Could you tell me what that other heating equipment is?</p> <p>Open response</p>					
NEXT	FUELHEAT				
Derived		Show Card		CARI	

NUMEQUIPM (New)	
ASK	If EQUIPM in(3,4)
<p>Do you have more than one [fill: EQUIPM]?</p> <ul style="list-style-type: none"> 1 Yes 0 No 	

NEXT	If EQUIPM=4: HPTYPE1 Else: FUELHEAT				
Derived		Show Card		CARI	

NUMPORTELHEAT1 (New)					
ASK	If EQUIPM=10				
<p>How many portable electric heaters does your household use?</p> <p>1 - 15</p>					
NEXT	MAINTHT				
Derived		Show Card		CARI	

FUELHEAT (Changed from 2009)					
ASK	If HEATHOME=1 and EQUIPM ne 4, 5, 8, 10, 11				
<p>Place show card 18 in front of the respondent.</p> <p>Please look at Card 18. 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?</p> <p>Use the following probe if the respondent does not know: Please take a moment to review the list again. It may help to think about which of your energy bills increases in the winter.</p> <ul style="list-style-type: none"> 5 Electricity 1 Natural gas from underground pipes 2 Propane (bottled gas) 3 Fuel oil 4 Kerosene 7 Wood 8 Solar 9 District steam 21 Some other fuel 					
NEXT	If FUELHEAT=21: FUELHEATFU Else: MAINTHT				
Derived		Show Card	Yes	CARI	Yes

FUELHEATFU					
ASK	If FUELHEAT=21				
<p>Could you tell me what that other fuel is?</p> <p>Open response</p>					

NEXT	MAINTHT				
Derived		Show Card		CARI	

HPTYPE1 (New)					
ASK	If EQUIPM=4				
<p>What type of heat pump do you have? Is it...</p> <ul style="list-style-type: none"> 1 Electric air source 2 Geothermal or ground source 3 Natural gas 					
NEXT	HPBACKUP				
Derived		Show Card		CARI	Yes

HPBACKUP (New)					
ASK	If EQUIPM=4				
<p>During the winter, how often does your heat pump switch to back-up or auxiliary heat? Is it...</p> <ul style="list-style-type: none"> 0 Never 1 A few times 2 Some of the time 3 About all winter 					
NEXT	MAINTHT				
Derived		Show Card		CARI	

MAINTHT (Changed from 2009)					
ASK	If HEATHOME=1				
<p>In the last year, has any routine maintenance been performed on your household's heating equipment? This includes replacing or cleaning the air filter.</p> <ul style="list-style-type: none"> 1 Yes 0 No 					
NEXT	EQUIPAGE				
Derived		Show Card		CARI	

EQUIPAGE (Changed from 2009)					
ASK	If HEATHOME=1				
<p>Place show card 1 in front of the respondent.</p> <p>Please look at Card 1. Approximately how old is your household's [fill: EQUIPM]?</p> <p>1 Less than 2 years old 2 2 to 4 years old 3 5 to 9 years old 41 10 to 14 years old 42 15 to 19 years old 5 20 years old 6 As old as the home (if volunteered)</p>					
NEXT	THERMAIN				
Derived		Show Card	Yes	CARI	

THERMAIN (Changed from 2009)					
ASK	If HEATHOME=1				
<p>Do you have a thermostat that controls your [fill: EQUIPM]?</p> <p>1 Yes 0 No</p>					
NEXT	If THERMAIN=1: OTHTHERM Else: EQUIPMUSE				
Derived		Show Card	Yes	CARI	

OTHTHERM					
ASK	If THERMAIN=1				
<p>Do you have more than one thermostat that controls your heating?</p> <p>1 Yes 0 No</p>					
NEXT	If OTHTHERM=1: NUMTHERM Else: PROTHERM				
Derived		Show Card		CARI	

NUMTHERM (Changed from 2009)					
ASK	If OTHTHERM=1				
<p>How many total thermostats do you have in your home?</p> <p>0 - 9</p>					
NEXT	PROTHERM				
Derived		Show Card		CARI	

PROTHERM					
ASK	If THERMAIN=1				
<p>Some thermostats can be programmed so that different temperatures are automatically maintained at different times of the day. Is the thermostat that controls your main heating equipment programmable?</p> <p>1 Yes 0 No</p>					
NEXT	EQUIPMUSE				
Derived		Show Card		CARI	

EQUIPMUSE (New)					
ASK	If HEATHOME=1				
<p>Place show card 19 in front of the respondent.</p> <p>Please look at Card 19. Which best describes how your household controls your main heating equipment most of the time?</p> <p>1 Set one temperature and leave it there most of the time 2 Manually adjust the temperature at night or when no one is at home 3 Program the thermostat to automatically adjust the temperature during the day and night at certain times 4 Turn equipment on or off as needed 5 Our household does not have control over the equipment 9 Other</p>					
NEXT	If EQUIPMUSE=9: EQUIPMUSEFU Else: TEMPHOME				
Derived		Show Card	Yes	CARI	Yes

EQUIPMUSEFU (New)					
ASK	If EQUIPMUSE=9				
<p>Could you describe how your household uses your main heating equipment?</p> <p>Open response</p>					
NEXT					
Derived		Show Card		CARI	

TEMPHOME (Changed from 2009)					
ASK	If HEATHOME=1				
<p>The next questions are about the temperature inside your home during the winter. If you have a thermostat, think about where your household sets the temperature for your main heating equipment. If you don't have a thermostat, your best guess about the temperature is fine.</p> <p>During the winter, what is the typical temperature when someone is home during the day?</p> <p>Enter degrees Fahrenheit.</p> <p>40 - 96</p>					
NEXT	TEMPGONE				
Derived		Show Card		CARI	Yes

TEMPGONE (Changed from 2009)					
ASK	If HEATHOME=1				
<p>What is the typical temperature when no one is inside your home during the day?</p> <p>Enter degrees Fahrenheit.</p> <p>40 - 96</p>					
NEXT	TEMPNITE				
Derived		Show Card		CARI	

TEMPNITE (Changed from 2009)					
ASK	If HEATHOME=1				
<p>What is the typical temperature inside your home at night?</p> <p>Enter degrees Fahrenheit.</p> <p>40 - 96</p>					

NEXT	HEATOTH				
Derived		Show Card		CARI	

HEATOTH					
ASK	If HEATHOME=1				
<p>Does the main heating equipment for your home also heat any other apartments, condos, households, businesses, or farm buildings?</p> <p>1 Yes 0 No</p>					
NEXT	EQUIPAUX				
Derived		Show Card		CARI	

EQUIPAUX (Changed from 2009)					
ASK	If HEATHOME=1				
<p>Place show card 20 in front of the respondent.</p> <p>You told me that [fill: EQUIPM] is the main source of heat in your home. Please look at Card 20. Does your household use any other types of heating equipment listed on Card 20?</p> <p>No other equipment (NOOTHEQU) Central furnace (WARMAIR) Heat pump (REVERSE) Steam/Hot water system with radiators or pipes (STEAMR) Built-in electric units installed in walls, ceilings, baseboards, or floors (PERMELEC) Built-in floor/wall pipeless furnace (PIPELESS) Built-in room heater burning gas, oil, or kerosene (ROOMHEAT) Heating stove burning wood (WOODKILN) Portable electric heaters (CARRYEL) Portable kerosene heaters (CARRYKER) Fireplace (CHIMNEY) Cooking stove or oven (RANGE) Some other equipment (DIFEQUIP)</p> <p>If No other equipment: EQUIPAUX=0; Else EQUIPAUX=1</p>					
NEXT	If EQUIPAUX=1: see skip logic for individual secondary fuel variables Else if CELLAR=1: BASEHEAT Else if ATTIC=1: ATTCHEAT Else if PRKGPLC1=1: GARGHEAT Else: MOISTURE				
Derived	Yes	Show Card	Yes	CARI	Yes

WARMAIR					
ASK					
Secondary heat is central furnace					
NEXT	FURNFUEL				
Derived		Show Card		CARI	

REVERSE					
ASK					
Secondary heat is heat pump					
NEXT	EQMAMT				
Derived		Show Card		CARI	

STEAMR					
ASK					
Secondary heat is steam/hot water system					
NEXT	RADFUEL				
Derived		Show Card		CARI	

PERMELEC					
ASK					
Secondary heat is built-in electric units					
NEXT	EQMAMT				
Derived		Show Card		CARI	

PIPELESS					
ASK					
Secondary heat is built-in floor/wall pipeless furnace					
NEXT	PIPEFUEL				
Derived		Show Card		CARI	

ROOMHEAT					
ASK					
Secondary heat is built-in room heater					
NEXT	RHMHTFUEL				
Derived		Show Card		CARI	

WOODKILN					
ASK					
Secondary heat is heating stove burning wood					
NEXT	EQMAMT				
Derived		Show Card		CARI	

CARRYEL					
ASK					
Secondary heat is portable electric heaters					
NEXT	NUMPORTELHEAT2				
Derived		Show Card		CARI	

CARRYKER					
ASK					
Secondary heat is portable kerosene heaters					
NEXT	EQMAMT				
Derived		Show Card		CARI	

CHIMNEY					
ASK					
Secondary heat is fireplace					
NEXT	FPFUEL				
Derived		Show Card		CARI	

RANGE					
ASK					
Secondary heat is cooking stove or oven					
NEXT	RNGFUEL				
Derived		Show Card		CARI	

DIFEQUIP					
ASK					
Secondary heat is some other equipment					
NEXT	AUXEQPFU				
Derived		Show Card		CARI	

AUXEQPFU					
ASK	If DIFEQUIP=1				
<p>Could you tell me what that other heating equipment is?</p> <p>Open response</p>					
NEXT	DIFFUEL				
Derived		Show Card		CARI	

FURNFUEL					
ASK	If WARMAIR=1				
<p>What fuel does the central furnace use? Is it...</p> <ul style="list-style-type: none"> 5 Electricity 1 Natural gas from underground pipes 2 Propane (bottled gas) 3 Fuel oil 4 Kerosene 7 Wood 8 Solar 9 District steam 21 Some other fuel 					

NEXT	If FURNFUEL=21: FURNFUELFU Else: EQMAMT				
Derived		Show Card		CARI	

FURNFUELFU					
ASK	If FURNFUEL=21				
<p>Specify the type of other fuel.</p> <p>Open response</p>					
NEXT	EQMAMT				
Derived		Show Card		CARI	

RADFUEL					
ASK	If STEAMR=1				
<p>What fuel does the steam/hot water system use? Is it...</p> <ul style="list-style-type: none"> 5 Electricity 1 Natural gas from underground pipes 2 Propane (bottled gas) 3 Fuel oil 4 Kerosene 7 Wood 8 Solar 9 District steam 21 Some other fuel 					
NEXT	If RADFUEL=21: RADFUELFU Else: EQMAMT				
Derived		Show Card		CARI	

RADFUELFU					
ASK	If RADFUEL=21				
<p>Specify the type of other fuel.</p> <p>Open response</p>					
NEXT	EQMAMT				
Derived		Show Card		CARI	

PIPEFUEL					
ASK	If PIPELESS=1				
<p>What fuel does the pipeless furnace use? Is it...</p> <ul style="list-style-type: none"> 5 Electricity 1 Natural gas from underground pipes 2 Propane (bottled gas) 3 Fuel oil 4 Kerosene 7 Wood 8 Solar 9 District steam 21 Some other fuel 					
NEXT	If PIPEFUEL=21: PIPEFUELFU Else: EQMAMT				
Derived		Show Card		CARI	

PIPEFUELFU					
ASK	If PIPEFUEL=21				
<p>Specify the type of other fuel.</p> <p>Open response</p>					
NEXT	EQMAMT				
Derived		Show Card		CARI	

RMHTFUEL					
ASK	If ROOMHEAT=1				
<p>What fuel does the room heater use? Is it...</p> <ul style="list-style-type: none"> 1 Natural gas from underground pipes 2 Propane (bottled gas) 3 Fuel oil 4 Kerosene 					
NEXT	EQMAMT				
Derived		Show Card		CARI	

FPFUEL					
ASK	If CHIMNEY=1				
<p>What fuel does the fireplace use? Is it...</p> <ul style="list-style-type: none"> 1 Natural gas from underground pipes 2 Propane (bottled gas) 7 Wood 21 Some other fuel 					
NEXT	If FPFUELFU=21: FPFUELFU Else if FPFUEL in(1,2): NGFPFLUE Else: EQMAMT				
Derived		Show Card		CARI	

FPFUELFU					
ASK	If FPFUEL=21				
<p>Specify the type of other fuel.</p> <p>Open response</p>					
NEXT	EQMAMT				
Derived		Show Card		CARI	

NGFPFLUE					
ASK	If FPFUEL in(1,2)				
<p>Does this fireplace have a flue to the outside or is it entirely self-contained?</p> <ul style="list-style-type: none"> 1 Flue to the outside 2 Flueless (self contained) 					
NEXT	USNGFP				
Derived		Show Card		CARI	

USENGFP (Changed from 2009)					
ASK	If FPFUEL in(1,2)				
<p>During the winter how frequently does your household use the gas fireplace? Is it...</p> <ul style="list-style-type: none"> 1 Most days 2 About once a week 3 Fewer than 4 times each month 					

NEXT	EQMAMT				
Derived		Show Card		CARI	

RNGFUEL					
ASK	If RANGE=1				
<p>What fuel does the cooking stove use? Is it...</p> <ul style="list-style-type: none"> 5 Electricity 1 Natural gas from underground pipes 2 Propane (bottled gas) 3 Fuel oil 4 Kerosene 7 Wood 21 Some other fuel 					
NEXT	If RNGFUEL=21: RNGFUELFU Else: EQMAMT				
Derived		Show Card		CARI	

RNGFUELFU					
ASK	If RNGFUEL=21				
<p>Specify the type of other fuel.</p> <p>Open response</p>					
NEXT	EQMAMT				
Derived		Show Card		CARI	

DIFFUEL					
ASK	If DIFEQUIP=1				
<p>What fuel does the other type of heating equipment use? Is it...</p> <ul style="list-style-type: none"> 5 Electricity 1 Natural gas from underground pipes 2 Propane (bottled gas) 3 Fuel oil 4 Kerosene 7 Wood 8 Solar 9 District steam 21 Some other fuel 					

NEXT	If DIFFUEL=21: DIFFUELFU Else: EQMAMT				
Derived		Show Card		CARI	

DIFFUELFU					
ASK	If DIFFUEL=21:				
Specify the type of other fuel.					
Open response					
NEXT	EQMAMT				
Derived		Show Card		CARI	

NUMPORTELHEAT2 (New)					
ASK	If CARRYEL=1				
How many portable electric heaters does your household use?					
1 - 15					
NEXT	EQMAMT				
Derived		Show Card		CARI	

EQMAMT (Changed from 2009)					
ASK	If EQUIPAUX=1				
You've told me that your household uses more than one type of equipment to heat your home. How much of your home's heat is provided by [FILL: MainHeatingEquip]. Would you say almost all, about three-fourths, or closer to half of all your heat?					
1 Almost all 2 About three-fourths 3 Closer to half of all your heat					
NEXT	If CELLAR=1: BASEHEAT Else if ATTIC=1: ATTCHEAT Else if PRKGPLC1=1: GARGHEAT Else: MOISTURE				
Derived		Show Card		CARI	

BASEHEAT (Changed from 2009)					
ASK	If HEATHOME=1 and CELLAR=1				
<p>Is any part of your basement heated using the heating equipment you've told me about?</p> <p>1 Yes 0 No</p>					
NEXT	If BASEHEAT=1: BASEHT2 Else if ATTIC=1: ATTCHEAT Else if PRKGPLC1=1: GARGHEAT Else: MOISTURE				
Derived		Show Card		CARI	

BASEHT2 (Changed from 2009)					
ASK	If BASEHEAT=1				
<p>About how much of your basement is heated? Is it...</p> <p>1 All 2 About half 3 Some</p>					
NEXT	If ATTIC=1: ATTCHEAT Else if PRKGPLC1=1: GARGHEAT Else: MOISTURE				
Derived		Show Card		CARI	

ATTCHEAT (Changed from 2009)					
ASK	If HEATHOME=1 and ATTIC=1				
<p>Is any part of your attic heated using the heating equipment you've told me about?</p> <p>1 Yes 0 No</p>					
NEXT	If ATTCHEAT=1: ATTCHT2 Else if PRKGPLC1=1: GARGHEAT Else: MOISTURE				
Derived		Show Card		CARI	

ATTCHT2 (Changed from 2009)					
ASK	If ATTCHT2=1				
<p>About how much of your attic is heated? Is it...</p> <p>1 All 2 About half 3 Some</p>					
NEXT	If PRKGPLC1=1: GARGHEAT Else: MOISTURE				
Derived		Show Card		CARI	

GARGHEAT (Changed from 2009)					
ASK	If HEATHOME=1 and PRKGPLC1=1				
<p>Is your garage heated using the heating equipment you've told me about?</p> <p>1 Yes 0 No</p>					
NEXT	MOISTURE				
Derived		Show Card		CARI	

MOISTURE (Changed from 2009)					
ASK	All respondents				
<p>Humidifiers add moisture to the air and are often used in the winter. Is a humidifier used in your home?</p> <p>1 Yes 0 No</p>					
NEXT	If MOISTURE=1: HUMIDTYPE Else: IVCOMMDFILTER				
Derived		Show Card		CARI	

HUMIDTYPE (New)					
ASK	If MOISTURE=1				
<p>Is your humidifier a portable humidifier or a whole home humidifier?</p> <p>1 Portable 2 Whole home</p>					

NEXT	USEMOISTURE				
Derived		Show Card		CARI	

USEMOISTURE (Changed from 2009)					
ASK	If MOISTURE=1				
<p>In the last year, how many months was the humidifier used?</p> <p>0 - 12</p>					
NEXT	IVCOMMDFILTER				
Derived		Show Card		CARI	

IVCOMMDFILTER					
ASK	All respondents				
<p>Interviewer Task: If you have any comments that might suggest that the data collected in the space heating section should be analyzed by central office staff, enter 1. If you have no comments regarding the quality of data entered in this section, enter 2.</p> <p>1 I have comments regarding the quality of data in this section 2 I do not have comments</p>					
NEXT	If IVCOMMDFILTER=1: IVCOMMD Else: Section E				
Derived		Show Card		CARI	

IVCOMMD					
ASK	If IVCOMMDFILTER=1				
<p>Interviewer Task: Record any information here about the space heating equipment in this housing unit and its' usage that might provide clarification to the respondent's answers.</p> <p>Open response</p>					
NEXT	Section E				
Derived		Show Card		CARI	

SECTION E: AIR CONDITIONING

AIRCOND					
ASK	All respondents				
<p>Is any air conditioning equipment used in your home?</p> <p>1 Yes 0 No</p>					
NEXT	If AIRCOND=1: COOLTYPE If AIRCOND=0: DNTAC Else: NUMCFAN				
Derived		Show Card		CARI	

DNTAC (Changed from 2009)					
ASK	If AIRCOND=0				
<p>Just to clarify, do you have air conditioning equipment but don't use it, or does your home not have any air conditioning equipment?</p> <p>1 Have equipment, but don't use it 2 Don't have any air conditioning equipment</p>					
NEXT	If DNTAC=1: COOLTYPEOAC Else: NUMCFAN				
Derived		Show Card		CARI	

COOLTYPEOAC (Changed from 2009)					
ASK	If DNTAC=1				
<p>We are still interested to know about the air conditioning equipment in your home. What type of air conditioning equipment does your home have? Is it a central system, individual window, wall, or portable units, or both a central system AND individual units?</p> <p>1 Central air conditioning system 2 Individual window/wall or portable units 3 Both a central system and individual units</p>					
NEXT	NUMCFAN				
Derived		Show Card		CARI	

COOLTYPE (Changed from 2009)					
ASK	If AIRCOND=1				
<p>What type of air conditioning equipment does your home have? Is it a central system, individual window, wall, or portable units, or both a central system AND individual units?</p> <p>1 Central air conditioning system 2 Individual window/wall or portable units 3 Both a central system and individual units</p>					
NEXT	If COOLTYPE in(1,3): NUMCENAC If COOLTYPE=2: NUMBERAC Else: NUMCFAN				
Derived		Show Card		CARI	Yes

NUMCENAC (New)					
ASK	If COOLTYPE in(1,3)				
<p>Do you have more than one central air conditioning unit?</p> <p>1 Yes 0 No</p>					
NEXT	CENACHP				
Derived		Show Card		CARI	

CENACHP					
ASK	If COOLTYPE in(1,3)				
<p>Is your central air conditioning system a heat pump?</p> <p>1 Yes 0 No</p>					
NEXT	If CENACHP=1 and EQUIPM ne 4: HPTYPE2 Else: ACOTHERS				
Derived		Show Card		CARI	

HPTYPE2 (New)					
ASK	If CENACHP=1 and EQUIPM ne 4				
<p>What type of heat pump do you have? Is it...</p> <p>1 Electric air source 2 Geothermal or ground source 3 Natural gas</p>					

NEXT	HPDUCTS				
Derived		Show Card		CARI	

HPDUCTS (New)					
ASK	If CENACHP=1				
<p>Does your heat pump deliver cold air through ducts and vents or is it a ductless system?</p> <p>1 Ducts and vents 2 Ductless</p>					
NEXT	ACOTHERS				
Derived		Show Card		CARI	

ACOTHERS					
ASK	If COOLTYPE in(1,3)				
<p>Does the central air conditioning equipment that cools your home also cool any other apartments, condos, households, businesses, or farm buildings?</p> <p>1 Yes 0 No</p>					
NEXT	MAINTAC				
Derived		Show Card		CARI	

MAINTAC (Changed from 2009)					
ASK	If COOLTYPE in(1,3)				
<p>In the last year, has any routine maintenance been performed on your household's central air conditioning equipment? This includes replacing or cleaning the air filter.</p> <p>1 Yes 0 No</p>					
NEXT	AGECENAC				
Derived		Show Card		CARI	

AGECENAC					
ASK	If COOLTYPE in(1,3)				
<p>Place show card 1 in front of the respondent.</p> <p>Please look at Card 1. Approximately, how old is your central air conditioning equipment?</p> <p>1 Less than 2 years old 2 2 to 4 years old 3 5 to 9 years old 41 10 to 14 years old 42 15 to 19 years old 5 20 years or older 6 As old as the home (if volunteered)</p>					
NEXT	THERMAINAC				
Derived		Show Card	Yes	CARI	Yes

THERMAINAC (Changed from 2009)					
ASK	If COOLTYPE in(1,3)				
<p>Do you have a thermostat that controls your central air conditioning equipment?</p> <p>1 Yes 0 No</p>					
NEXT	If THERMAINAC=1: PROTHERM Else: USECENAC				
Derived		Show Card		CARI	

PROTHERMAC					
ASK	If THERMAINAC=1				
<p>Some thermostats can be programmed so that different temperatures are automatically maintained at different times of the day. Is the thermostat that controls your central air conditioning equipment programmable?</p> <p>1 Yes 0 No</p>					
NEXT	USCENAC				
Derived		Show Card		CARI	

USECENAC (Changed from 2009)					
ASK	If COOLTYPE in(1,3)				
<p>Place show card 21 in front of the respondent.</p> <p>Please look at Card 21. Which best describes how your household controls your central air conditioning equipment most of the time?</p> <ul style="list-style-type: none"> 1 Set one temperature and leave it there most of the time 2 Manually adjust the temperature at night or when no one is at home 3 Program the thermostat to automatically adjust the temperature during the day and night at certain times 4 Turn equipment on or off as needed 5 Our household does not have control over the equipment 9 Other 					
NEXT	If USECENAC=9: USECENACFU Else if COOLTYPE=3: NUMBERAC Else if COOLTYPE=1: TEMPHOMEAC				
Derived		Show Card	Yes	CARI	Yes

USECENACFU (New)					
ASK	If USECENAC=9				
<p>Could you describe how your household uses your central air conditioning equipment?</p> <p>Open response</p>					
NEXT	If COOLTYPE=3: NUMBERAC Else if COOLTYPE=1: TEMPHOMEAC				
Derived		Show Card		CARI	

NUMBERAC (Changed from 2009)					
ASK	If COOLTYPE in(2,3)				
<p>How many individual window, wall, or portable air conditioning units do you use in your home?</p> <p>1 - 15</p>					
NEXT	WWTYPE				
Derived		Show Card		CARI	

WWTYPE (New)					
ASK	If COOLTYPE in(2,3)				
<p>Is the [If NUMBERAC>1: most-used] individual air-conditioning unit installed in a window, installed in a wall, or is it a portable unit?</p> <p>1 Window 2 Wall 3 Portable</p>					
NEXT	WWACAGE				
Derived		Show Card		CARI	

WWACAGE (Changed from 2009)					
ASK	If COOLTYPE in(2,3)				
<p>Place show card 1 in front of the respondent.</p> <p>Please look at Card 1. Approximately, how old is the [If NUMBERAC>1: most-used] window, wall, or portable air conditioning unit in your home?</p> <p>1 Less than 2 years old 2 2 to 4 years old 3 5 to 9 years old 41 10 to 14 years old 42 15 to 19 years old 5 20 years or older 6 As old as the home (if volunteered)</p>					
NEXT	THERMAINWW				
Derived		Show Card	Yes	CARI	

THERMAINWW (New)					
ASK	If COOLTYPE in(2,3)				
<p>Do you have a thermostat that controls your [If NUMBERAC>1: most used] individual air conditioning unit?</p> <p>1 Yes 0 No</p>					
NEXT	If THERMAINWW=1: PROTHERM Else: USEWWAC				
Derived		Show Card		CARI	

PROTHERMWW (New)					
ASK	If THERMAINWW=1				
<p>Some thermostats can be programmed so that different temperatures are automatically maintained at different times of the day. Is the thermostat that controls your [If NUMBERAC>1: most used] individual unit programmable?</p> <p>1 Yes 0 No</p>					
NEXT	USEWWAC				
Derived		Show Card		CARI	

USEWWAC (Changed from 2009)					
ASK	If COOLTYPE in(2,3)				
<p>Place show card 21 in front of the respondent.</p> <p>Please look at Card 21. Which best describes how your household controls your [if NUMBERAC>1: most used] individual unit most of the time?</p> <p>1 Set one temperature and leave it there most of the time 2 Manually adjust the temperature at night or when no one is at home 3 Program the thermostat to automatically adjust the temperature during the day and night at certain times 4 Turn equipment on or off as needed 5 Our household does not have control over the equipment 9 Other</p>					
NEXT	If USEWWAC=9: USEWWACFU Else: TEMPHOMEAC				
Derived		Show Card	Yes	CARI	

USEWWACFU (New)					
ASK	If USEWWAC=9				
<p>Could you describe how your household uses your [if NUMBERAC>1: most used] individual unit?</p> <p>Open response</p>					
NEXT	TEMPHOMEAC				
Derived		Show Card		CARI	

TEMPHOMEAC (Changed from 2009)					
ASK	If AIRCOND=1				
<p>The next questions are about the temperature inside your home during the summer. If you have a thermostat, think about where your household sets the temperature for your air conditioning equipment. If you do not have a thermostat, your best guess about the temperature is fine.</p> <p>During the summer, what is the typical temperature when someone is home during the day?</p> <p>Enter degrees Fahrenheit.</p> <p>40 - 96</p>					
NEXT	TEMPGONEAC				
Derived		Show Card		CARI	

TEMPGONEAC (Changed from 2009)					
ASK	If AIRCOND=1				
<p>What is the typical temperature when no one is inside your home during the day?</p> <p>Enter degrees Fahrenheit.</p> <p>40 - 96</p>					
NEXT	TEMPNITEAC				
Derived		Show Card		CARI	

TEMPNITEAC (Changed from 2009)					
ASK	If AIRCOND=1				
<p>What is the typical temperature inside your home at night?</p> <p>Enter degrees Fahrenheit.</p> <p>40 - 96</p>					
NEXT	If CELLAR=1: BASECOOL Else if ATTIC=1: ATTCCOOL Else if PRKGPLC1=1: GARGCOOL Else: NUMCFAN				
Derived		Show Card		CARI	

BASECOOL (Changed from 2009)					
ASK	If AIRCOND=1 and CELLAR=1				
<p>Is any part of your basement cooled using the air conditioning equipment you told me about?</p> <p>1 Yes 0 No</p>					
NEXT	If BASECOOL=1: BASECL2 Else if ATTIC=1: ATTCCOOL Else if PRKGPLC1=1: GARGCOOL Else: NUMCFAN				
Derived		Show Card		CARI	

BASECL2 (Changed from 2009)					
ASK	If BASECOOL=1				
<p>About how much of your basement is cooled? Is it all, about half, or some?</p> <p>1 All 2 About half 3 Some</p>					
NEXT	If ATTIC=1: ATTCCOOL Else if PRKGPLC1=1: GARGCOOL Else: NUMCFAN				
Derived		Show Card		CARI	

ATTCCOOL (Changed from 2009)					
ASK	If AIRCOND=1 and ATTIC=1				
<p>Is any part of your attic cooled using the air conditioning equipment you told me about?</p> <p>1 Yes 0 No</p>					
NEXT	If ATTCCOOL=1: ATTCCCL2 Else if PRKGPLC1=1: GARGHEAT Else: NUMCFAN				
Derived		Show Card		CARI	

ATTCCCL2 (Changed from 2009)					
ASK	If ATTCCOOL=1				
<p>About how much of your attic is cooled? Is it all, about half, or some?</p> <p>1 All 2 About half 3 Some</p>					
NEXT	If PRKGPLC1=1: GARGCOOL Else: NUMCFAN				
Derived		Show Card		CARI	

GARGCOOL (Changed from 2009)					
ASK	If AIRCOND=1 and PRKGPLC1=1				
<p>Is your garage cooled using the air conditioning equipment you told me about?</p> <p>1 Yes 0 No</p>					
NEXT	NUMCFAN				
Derived		Show Card		CARI	

NUMCFAN (Changed from 2009)					
ASK	All respondents				
<p>Now let's talk about fans. How many of each of the following are used in your home?</p> <p>Ceiling fans</p> <p>0 - 15</p>					
NEXT	NUMFLOORFAN				
Derived		Show Card		CARI	

NUMFLOORFAN (New)					
ASK	All respondents				
<p>Floor, window, or table fans</p> <p>0 - 15</p>					

NEXT	If TYPEHUQ in(2,3): NUMWHOLEFAN Else if NUMCFAN>0: USECFAN Else: NOTMOIST				
Derived		Show Card		CARI	

NUMWHOLEFAN (New)					
ASK	If TYPEHUQ in(2,3)				
Whole house fans 0 - 15					
NEXT	NUMATTICFAN				
Derived		Show Card		CARI	

NUMATTICFAN (New)					
ASK	If TYPEHUQ in(2,3)				
Attic fans 0 - 15					
NEXT	If NUMCFAN>0: USECFAN Else: NOTMOIST				
Derived		Show Card		CARI	

USECFAN (Changed from 2009)					
ASK	If NUMCFAN>0				
<p>Thinking about the ceiling fan [If NUMCFAN>1: that you use the most], how often is this fan used during the summer? Is it used only a few days or nights when it's really needed, used quite a bit, used just about all summer, or is it not used at all?</p> <p>1 Used only a few days or nights when really needed</p> <p>2 Used quite a bit</p> <p>3 Used just about all summer</p> <p>4 Not used at all</p>					
NEXT	NOTMOIST				
Derived		Show Card		CARI	

NOTMOIST (Changed from 2009)					
ASK	All respondents				
<p>Dehumidifiers remove moisture from the air and are often used in the summer. Is a dehumidifier used in your home?</p> <p>1 Yes 0 No</p>					
NEXT	If NOTMOIST=1: MOISTTYPE Else: TREESHAD				
Derived		Show Card		CARI	

MOISTTYPE (New)					
ASK	If NOTMOIST=1				
<p>Is your dehumidifier a portable dehumidifier or a whole home dehumidifier?</p> <p>1 Portable 2 Whole home</p>					
NEXT	USENOTMOIST				
Derived		Show Card		CARI	

USENOTMOIST (Changed from 2009)					
ASK	If NOTMOIST=1				
<p>In the last year, how many months was the dehumidifier used?</p> <p>0 - 12</p>					
NEXT	TREESHAD				
Derived		Show Card		CARI	

TREESHAD					
ASK	All respondents				
<p>Do any large trees shade your home from the afternoon summer sun?</p> <p>1 Yes 0 No</p>					

NEXT	IVCOMMEFILTER				
Derived		Show Card		CARI	

IVCOMMEFILTER (Changed from 2009)					
ASK	All respondents				
<p>Interviewer Task: If you have any comments that might suggest that the data collected in the air conditioning section should be analyzed by central office staff, enter 1. If you have no comments regarding the quality of data entered in this section, enter 2.</p> <p>1 I have comments regarding the quality of data in this section 2 I do not have comments</p>					
NEXT	If IVCOMMEFILTER=1: IVCOMME; Else: Section F				
Derived		Show Card		CARI	

IVCOMME (Changed from 2009)					
ASK	If IVCOMMEFILTER=1				
<p>Interviewer Task: 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.</p> <p>Open response</p>					
NEXT	Section F				
Derived		Show Card		CARI	

SECTION F: WATER HEATING

H2OHEATAPT (New)					
ASK	If TYPEHUQ in(4,5)				
<p>Now let's talk about water heaters.</p> <p>Do you have a water heater in your apartment or is the water heater located somewhere else in this building?</p> <p style="margin-left: 40px;">1 In apartment 2 Somewhere else in building</p>					
NEXT	If H2OHEATAPT=1: FUELH2O Else: IVCOMMFFILTER				
Derived		Show Card		CARI	Yes

FUELH2O (Changed from 2009)					
ASK	If TYPEHUQ in(1,2,3) or H2OHEATAPT=1				
<p>[If TYPEHUQ in(1,2,3): Now let's talk about water heaters.]</p> <p style="color: blue;">Place show card 22 in front of the respondent.</p> <p>Please look at Card 22. What fuel does your main water heater use?</p> <p style="margin-left: 40px;">5 Electricity 1 Natural gas from underground pipes 2 Propane (bottled gas) 3 Fuel oil 4 Kerosene 7 Wood 8 Solar 21 Some other fuel</p>					
NEXT	If FUELH2O=21:FUELH2OFU Else: WHEATSIZ				
Derived		Show Card	Yes	CARI	Yes

FUELH2OFU	
ASK	If FUELH2O=21
<p>Could you tell me what that other fuel used to heat water is?</p> <p style="margin-left: 40px;">Open response</p>	

NEXT	WHEATSIZ				
Derived		Show Card		CARI	

WHEATSIZ (Changed from 2009)					
ASK	If TYPEHUQ in(1,2,3) or H2OHEATAPT=1				
<p>Place show card 23 in front of the respondent.</p> <p>Please look at Card 23. What is the approximate size of the main water heater?</p> <ul style="list-style-type: none"> 1 Small storage tank (30 gallons or less) 2 Medium storage tank (31 to 49 gallons) 3 Large storage tank (50 gallons or more) 4 Tankless or on-demand 					
NEXT	WHEATAGE				
Derived		Show Card	Yes	CARI	Yes

WHEATAGE (Changed from 2009)					
ASK	If TYPEHUQ in(1,2,3) or H2OHEATAPT=1				
<p>Place show card 1 in front of the respondent.</p> <p>Please look at Card 1. Approximately how old is the main water heater?</p> <ul style="list-style-type: none"> 1 Less than 2 years old 2 2 to 4 years old 3 5 to 9 years old 4 10 to 14 years old 41 10 to 14 years old 42 15 to 19 years old 5 20 years or older 6 As old as the home (if volunteered) 					
NEXT	If WHEATSIZ in(1,2,3): WHEATBKT Else: MORETHAN1H2O				
Derived		Show Card	Yes	CARI	

WHEATBKT	
ASK	If WHEATSIZ in(1,2,3)
<p>Has the main water heater in your home been insulated using a water heater blanket?</p> <ul style="list-style-type: none"> 1 Yes 0 No 	

NEXT	MORETHAN1H2O				
Derived		Show Card		CARI	

MORETHAN1H2O (New)					
ASK	If TYPEHUQ in(1,2,3) or H2OHEATAPT=1				
<p>Do you have more than one water heater?</p> <p>1 Yes 0 No</p>					
NEXT	If MORETHAN1H2O=1: FUELH2O2 Else: IVCOMMFFILTER				
Derived		Show Card		CARI	

FUELH2O2 (Changed from 2009)					
ASK	If MORETHAN1H2O=1				
<p>Place show card 22 in front of the respondent.</p> <p>Please look at Card 22. Which fuel does your second water heater use?</p> <p>5 Electricity 1 Natural gas from underground pipes 2 Propane (bottled gas) 3 Fuel oil 4 Kerosene 7 Wood 8 Solar 21 Some other fuel</p>					
NEXT	If FUELH2O2=21: FUELH2O2FU Else: WHEATSIZ2				
Derived		Show Card	Yes	CARI	

FUELH2O2FU					
ASK	If FUELH2O2=21				
<p>Could you tell me what that other fuel used to heat water is?</p> <p>Open response</p>					
NEXT	WHEATSIZ2				
Derived		Show Card		CARI	

WHEATSIZE2 (Changed from 2009)					
ASK	If MORETHAN1H2O=1				
<p>Place show card 23 in front of the respondent.</p> <p>Please look at Card 23. What is the approximate size of the second water heater?</p> <ul style="list-style-type: none"> 1 Small storage tank (30 gallons or less) 2 Medium storage tank (31 to 49 gallons) 3 Large storage tank (50 gallons or more) 4 Tankless or on-demand 					
NEXT	WHEATAGE2				
Derived		Show Card	Yes	CARI	

WHEATAGE2 (Changed from 2009)					
ASK	If MORETHAN1H2O=1				
<p>Place show card 1 in front of the respondent.</p> <p>Please look at Card 1. Approximately how old is the second water heater?</p> <ul style="list-style-type: none"> 1 Less than 2 years old 2 2 to 4 years old 3 5 to 9 years old 4 10 to 14 years old 5 15 to 19 years old 6 20 years or older 7 As old as the home (if volunteered) 					
NEXT	IVCOMMFFILTER				
Derived		Show Card	Yes	CARI	

IVCOMMFFILTER (Changed from 2009)					
ASK	All respondents				
<p>Interviewer Task: If you have any comments that might suggest that the data collected in the water heating section should be analyzed by central office staff, enter 1. If you have no comments regarding the quality of data entered in this section, enter 2.</p> <ul style="list-style-type: none"> 1 I have comments regarding the quality of data in this section 2 I do not have comments 					
NEXT	If IVCOMMFFILTER=1: IVCOMMF Else: Section G				
Derived		Show Card		CARI	

IVCOMMF (Changed from 2009)					
ASK	If IVCOMMFFILTER=1				
<p>Interviewer Task: 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.</p> <p>Open response</p>					
NEXT	Section G				
Derived		Show Card		CARI	

SECTION G: MISCELLANEOUS

LGTINNUM (New)					
ASK	All respondents				
<p>Now let's turn to lighting and other uses of energy in your home.</p> <p style="color: blue;">Place show card 24 in front of the respondent.</p> <p>Please look at Card 24. About how many light bulbs are installed inside your home? Include light bulbs in ceiling fixtures and fans, table and floor lamps, as well as those used infrequently, such as in hallways, closets, and garages. For fixtures with multiple bulbs, count each bulb separately.</p> <ul style="list-style-type: none"> 1 Fewer than 20 light bulbs 2 20 to 39 light bulbs 3 40 to 59 light bulbs 4 60 to 79 light bulbs 5 80 or more light bulbs 					
NEXT	LGTIN4				
Derived		Show Card	Yes	CARI	Yes

LGTIN4 (New)					
ASK	All respondents				
<p>How many of the light bulbs inside your home are used at least 4 hours per day?</p> <p style="text-align: center;">0 - 99</p>					
NEXT	LGTINCAN				
Derived		Show Card		CARI	

LGTINCAN (New)					
ASK	All respondents				
<p style="color: blue;">Place show card 25 in front of the respondent.</p> <p>Please look at Card 25. The first picture shows an incandescent light bulb. What portion of the light bulbs inside your home are incandescent bulbs? Is it...</p> <ul style="list-style-type: none"> 1 All, 2 Most, 3 About half, 4 Some, or 5 None? 					

NEXT	LGTINCFL				
Derived		Show Card	Yes	CARI	

LGTINCFL (New)					
ASK	All respondents				
<p>The second picture shows a CFL bulb. What portion of the light bulbs inside your home are CFL bulbs? Is it...</p> <p>1 All, 2 Most, 3 About half, 4 Some, or 5 None?</p>					
NEXT	LGTINLED				
Derived		Show Card	Yes	CARI	Yes

LGTINLED (New)					
ASK	All respondents				
<p>The third picture shows an LED bulb. What portion of the light bulbs inside your home are LED bulbs? Is it...</p> <p>1 All, 2 Most, 3 About half, 4 Some, or 5 None?</p>					
NEXT	LGTINCNTL				
Derived		Show Card	Yes	CARI	Yes

LGTINCNTL (New)					
ASK	All respondents				
<p>Are any of the light bulbs inside your home controlled by timers or dimmer switches?</p> <p>1 Yes 0 No</p>					
NEXT	If TYPEHUQ in(1,2,3): LGTOUTNUM Else: RECBATH				
Derived		Show Card		CARI	

LGTOUTNUM (New)					
ASK	If TYPEHUQ in(1,2,3)				
<p>About how many light bulbs are installed outside your home? Is it...</p> <p>0 None, 1 1 to 4 bulbs, 2 5 to 9 bulbs, or 3 10 or more bulbs?</p>					
NEXT	If LGTOUTNUM in(1,2,3): LGTOUTNITE Else: SWIMPOOL				
Derived		Show Card		CARI	

LGTOUTNITE (New)					
ASK	If LGTOUTNUM in(1,2,3)				
<p>How many of the light bulbs outside your home are typically left on all night?</p> <p>0 - 25</p>					
NEXT	If LGTOUTNITE>0: LGTOUTCAN Else: LGTOUTCNTL				
Derived		Show Card		CARI	

LGTOUTCAN (New)					
ASK	If LGTOUTNITE>0				
<p>Which of these types of lights bulbs are typically left on all night outside your home?</p> <p>Incandescent bulbs?</p> <p>1 Yes 0 No</p>					
NEXT	LGTOUTCFL				
Derived		Show Card		CARI	

LGTOUTCFL (New)					
ASK	If LGTOUTNITE>0				
<p>CFL bulbs?</p> <p>1 Yes 0 No</p>					

NEXT	LGTOUTLED				
Derived		Show Card		CARI	

LGTOUTLED (New)					
ASK	If LGTOUTNITE>0				
<p>LED bulbs?</p> <p>1 Yes 0 No</p>					
NEXT	LGTOUTNG				
Derived		Show Card		CARI	

LGTOUTNG (New)					
ASK	If LGTOUTNITE>0				
<p>Natural gas lights?</p> <p>1 Yes 0 No</p>					
NEXT	LGTOUTCNTL				
Derived		Show Card		CARI	

LGTOUTCNTL (New)					
ASK	If LGTOUTNUM in(1,2,3)				
<p>Are any of the light bulbs outside your home controlled by motion detectors or light sensors?</p> <p>1 Yes 0 No</p>					
NEXT	SWIMPOOL				
Derived		Show Card		CARI	

SWIMPOOL (Changed from 2009)					
ASK	If TYPEHUQ in(1,2,3)				
<p>Does your home have its own swimming pool?</p> <p>1 Yes 0 No</p>					

NEXT	If SWIMPOOL=1: MONPOOL Else: RECBATH				
Derived		Show Card		CARI	

MONPOOL (New)					
ASK	If SWIMPOOL=1				
<p>In the last year, how many months was your swimming pool in use?</p> <p>0 - 12</p>					
NEXT	If MONPOOL ge 1: POOL Else: RECBATH				
Derived		Show Card		CARI	

POOL (Changed from 2009)					
ASK	If MONPOOL ge 1				
<p>Is it a heated pool?</p> <p>1 Yes 0 No</p>					
NEXT	If POOL=1: FUELPOOL Else: RECBATH				
Derived		Show Card		CARI	

FUELPOOL (Changed from 2009)					
ASK	If POOL=1				
<p>What fuel is used to heat the water in your swimming pool? Is it...</p> <p>5 Electricity, 1 Natural gas from underground pipes, 2 Propane (bottled gas), 3 Fuel oil, 4 Kerosene, 8 Solar, or 21 Some other fuel?</p>					
NEXT	If FUELPOOL=21: FUELPOOLFU Else: RECBATH				
Derived		Show Card		CARI	

FUELPOOLFU					
ASK	If FUELPOOL=21				
<p>Could you tell me what that other fuel used to heat the pool water is?</p> <p>Open response</p>					
NEXT	RECBATH				
Derived		Show Card		CARI	

RECBATH (Changed from 2009)					
ASK	All respondents				
<p>Does your home have its own heated hot tub, spa, or Jacuzzi, other than a bathtub?</p> <p>1 Yes 0 No</p>					
NEXT	If RECBATH=1: MONTUB Else: AUDIT				
Derived		Show Card		CARI	

MONTUB (New)					
ASK	If RECBATH=1				
<p>In the last year, how many months was your hot tub, spa, or Jacuzzi in use?</p> <p>0 - 12</p>					
NEXT	If MONTUB ge 1: FUEL TUB Else: AUDIT				
Derived		Show Card		CARI	

FUEL TUB (Changed from 2009)					
ASK	If MONTUB ge 1				
<p>What fuel is used to heat the water in your hot tub, spa, or Jacuzzi? Is it...</p> <p>5 Electricity, 1 Natural gas from underground pipes, 2 Propane (bottled gas), 3 Fuel oil, 4 Kerosene, 8 Solar, or 21 Some other fuel?</p>					

NEXT	If FUELTUB=21: FUELTUBFU Else: AUDIT				
Derived		Show Card		CARI	

FUELTUBFU					
ASK	If FUELTUB=21				
<p>Could you tell me what that other fuel used to heat the water is?</p> <p>Open response</p>					
NEXT	AUDIT				
Derived		Show Card		CARI	

AUDIT					
ASK	All respondents				
<p>A home energy audit is when a trained professional examines how energy is used in all parts of a home. After examining a home, the energy auditor will provide a list of ways to reduce energy use and save money on energy bills. Has your home had an energy audit?</p> <p>1 Yes 0 No</p>					
NEXT	If AUDIT=1: AUDITCHG Else if KOWNRENT=1: EELIGHTS, EETHERM, FREEAUDIT, REBATEAPP, RECYCAPP, SUBLOAN, TAXCREDITAPP, TAXCREDITWIN, WEATHERIZATION, BENOTHER, BENNONE Else: ENERGYASST				
Derived		Show Card		CARI	

AUDITCHG (New)					
ASK	If AUDIT=1				
<p>Did your household make any of the changes suggested by the energy auditor?</p> <p>1 Yes 0 No</p>					
NEXT	If KOWNRENT=1: EELIGHTS, EETHERM, FREEAUDIT, REBATEAPP, RECYCAPP, SUBLOAN, TAXCREDITAPP, TAXCREDITWIN, WEATHERIZATION, BENOTHER, BENNONE Else: ENERGYASST				
Derived		Show Card		CARI	

EELIGHTS, EETHERM, FREEAUDIT, REBATEAPP, RECYCAPP, SUBLOAN, TAXCREDITAPP, TAXCREDITWIN, WEATHERIZATION, BENOTHER, BENNONE (New)					
ASK	If KOWNRENT=1				
<p>Place show card 26 in front of the respondent.</p> <p>Please look at Card 26. Has your household received any of these energy-related benefits or assistance for this home?</p> <p>Mark all that apply.</p> <ul style="list-style-type: none"> Free or subsidized energy-efficient light bulbs (EELIGHTS) Free or subsidized programmable thermostat (EETHERM) Free or subsidized home energy audit (FREEAUDIT) Utility or energy supplier rebate for new appliance or equipment (REBATEAPP) Recycling of old appliance or equipment (for example, a refrigerator) (RECYCAPP) Subsidized loan for new appliance or equipment (SUBLOAN) Tax credit for new appliance or equipment (TAXCREDITAPP) Tax credit for new windows or insulation (TAXCREDITWIN) Weatherization assistance program (WEATHERIZATION) Some other benefit (BENOTHER) No energy-related benefits or assistance (BENNONE) 					
NEXT	If BENOTHER=1: BENOTHERFU Else: ENERGYASST				
Derived		Show Card	Yes	CARI	Yes

BENOTHERFU (New)					
ASK	If BENOTHER=1				
<p>Could you tell me what that other benefit was?</p> <p>Open response</p>					
NEXT	ENERGYASST				
Derived		Show Card		CARI	

ENERGYASST (New)					
ASK	All respondents				
<p>Has your household participated in a home energy assistance program that helps pay energy bills or fix broken equipment?</p> <p>1 Yes 0 No</p>					

NEXT	If ENERGYASST=1: ENERGYASST11, ENERGYASST12, ENERGYASST13, ENERGYASST14, ENERGYASST15, ENERGYASSTOTH Else: ESWIN, ESFRIG, ESFREEZE, ESDISHW, ESCWASH, ESDRYER, ESWATER, ESLIGHT, ESNONE				
Derived		Show Card		CARI	

ENERGYASST11, ENERGYASST12, ENERGYASST13, ENERGYASST14, ENERGYASST15, ENERGYASSTOTH (New)					
ASK	If ENERGYASST=1				
<p>In which of the following years did your household receive home energy assistance?</p> <p>Mark all that apply.</p> <p>2011 (ENERGYASST11) 2012 (ENERGYASST12) 2013 (ENERGYASST13) 2014 (ENERGYASST14) 2015 (ENERGYASST15) Some other year(s) (ENERGYASSTOTH)</p>					
NEXT	ESWIN, ESFRIG, ESFREEZE, ESDISHW, ESCWASH, ESDRYER, ESWATER, ESLIGHT, ESNONE				
Derived		Show Card		CARI	

ESWIN, ESFRIG, ESFREEZE, ESDISHW, ESCWASH, ESDRYER, ESWATER, ESLIGHT, ESNONE (New)					
ASK	All respondents				
<p>Place show card 27 in front of the respondent.</p> <p>Please look at Card 27. Which of these products in your home are ENERGY STAR qualified?</p> <p>Mark all that apply.</p> <p>Windows (ESWIN) Refrigerator (ESFRIG) Freezer (ESFREEZE) Dishwasher (ESDISHW) Clothes washer (ESCWASH) Clothes dryer (ESDRYER) Water heater (ESWATER) Light bulbs (ESLIGHT) None of these (ESNONE)</p>					
NEXT	If THERMAIN=1 or THERMAINAC=1: SMARTTHERM Else if TYPEHUQ in(1,2,3,4): OUTLET Else: ALTFUELPEV				
Derived		Show Card	Yes	CARI	

SMARTTHERM (New)					
ASK	If THERMAIN=1 or THERMAINAC=1				
<p>Does your home have a “smart” or Internet-connected thermostat?</p> <p>1 Yes 0 No</p>					
NEXT	If TYPEHUQ in(1,2,3,4): OUTLET Else: ALTFUELPEV				
Derived		Show Card		CARI	

OUTLET (Changed from 2009)					
ASK	If TYPEHUQ in(1,2,3,4)				
<p>Do you or any member of your household park a car within about 20 feet of an electric outlet? Only outlets in garages, carports, or the exterior of the home are to be considered.</p> <p>1 Yes 0 No</p>					
NEXT	ALTFUELPEV				
Derived		Show Card		CARI	

ALTFUELPEV (New)					
ASK	All respondents				
<p>Do you or any member of your household own or lease any of the following alternative fuel vehicles?</p> <p>Plug-in electric vehicle or PEV?</p> <p>1 Yes 0 No</p>					
NEXT	ALTFUELHYB				
Derived		Show Card		CARI	

ALTFUELHYB (New)					
ASK	All respondents				
<p>Gas-electric hybrid?</p> <p>1 Yes 0 No</p>					

NEXT	ALTFUELE85				
Derived		Show Card		CARI	

ALTFUELE85 (New)					
ASK	All respondents				
<p>E85 or "flex-fuel" vehicle?</p> <p>1 Yes 0 No</p>					
NEXT	If ALTFUELE85=1: E85USE Else: IVCOMMGFILTER				
Derived		Show Card		CARI	

E85USE (New)					
ASK	If ALTFUELE85=1				
<p>When buying fuel for the E85 vehicle, how often is E85 purchased, as compared with normal gasoline? Is it...</p> <p>1 All of the time 2 Most of the time 3 About half the time 4 Some of the time 5 Never</p>					
NEXT	IVCOMMGFILTER				
Derived		Show Card		CARI	

ELOTHR					
ASK					
Derived					
NEXT					
Derived	Yes	Show Card		CARI	

UGOTH					
ASK					
Derived					

NEXT					
Derived	Yes	Show Card		CARI	

LPOTHER					
ASK					
Derived					
NEXT					
Derived	Yes	Show Card		CARI	

FOOTHER					
ASK					
Derived					
NEXT					
Derived	Yes	Show Card		CARI	

KROTHER					
ASK					
Derived					
NEXT					
Derived	Yes	Show Card		CARI	

SOLOOTHER					
ASK					
Derived					
NEXT					
Derived	Yes	Show Card		CARI	

WDOTHOUSE					
ASK					
Derived					

NEXT					
Derived	Yes	Show Card		CARI	

IVCOMMGFILTER					
ASK	All respondents				
<p>Interviewer Task: If you have any comments that might suggest that the data collected in the miscellaneous section should be analyzed by central office staff, enter 1. If you have no comments regarding the quality of data entered in this section, enter 2.</p> <p>1 I have comments regarding the quality of data in this section 2 I do not have comments</p>					
NEXT	If IVCOMMGFILTER=1: IVCOMM Else: Section H				
Derived		Show Card		CARI	

IVCOMM					
ASK	If IVCOMMGFILTER=1				
<p>Interviewer Task: Record any information here about the miscellaneous characteristics of this housing unit that might provide clarification to the respondent's answers.</p> <p>Open response</p>					
NEXT	Section H				
Derived		Show Card		CARI	

SECTION H: FUELS USED

BACKUP (New)					
ASK	If TYPEHUQ in(1,2,3,4)				
<p>Does your household have a back-up generator that can be used for generating electricity in case of a power outage or emergency?</p> <p>1 Yes 0 No</p>					
NEXT	ONSITETYPE				
Derived		Show Card		CARI	

ONSITETYPE (Changed from 2009)					
ASK	If TYPEHUQ in(1,2,3,4)				
<p style="color: blue;">Place show card 28 in front of the respondent.</p> <p>Please look at Card 28. Not including back-up generators, does your home have any of these on-site systems that generates electricity?</p> <p>0 No on-site generation system 1 Solar or photovoltaic system 2 Small wind turbine 3 Combined heat and power system 9 Some other on-site generation system</p>					
NEXT	If ONSITETYPE=9: ONSITETYPEFU If ONSITETYPE in(1,2,3): ONSITEGRID Else: OTHFUELUSE				
Derived		Show Card	Yes	CARI	

ONSITETYPEFU					
ASK	If ONSITETYPE=9				
<p>Could you tell me what that other on-site system is?</p> <p>Open response</p>					
NEXT	ONSITEGRID				
Derived		Show Card		CARI	

ONSITEGRID					
ASK	If ONSITETYPE in(1,2,3,9)				
<p>Is your on-site system connected to the grid?</p> <p>1 Yes 0 No</p>					
NEXT	ONSITEGENCAP				
Derived		Show Card		CARI	

ONSITEGENCAP (New)					
ASK	If ONSITETYPE in(1,2,3,9)				
<p>"Capacity" is how much electricity a system can generate at one time. It is typically measured in kW (kilowatts). What is the capacity of your on-site system?</p> <p>Open response</p>					
NEXT	OTHFUELUSE				
Derived		Show Card		CARI	

OTHFUELUSE					
ASK	All respondents				
<p>You have mentioned using [CAPI WILL LIST THE FUELS IDENTIFIED AS USED BY THE HOUSEHOLD]. Do you use [CAPI WILL LIST THE FUELS WHICH HAVE NOT BEEN IDENTIFIED AS USED BY THE HOUSEHOLD] as a fuel for any purpose in your home?</p> <p>1 Yes 0 No</p>					
NEXT	If OTHFUELUSE=1: OTHFUELFU1, OTHFUELFU2, OTHFUELFU3, OTHFUELFU4, OTHFUELFU5, OTHFUELFU6, OTHFUELFU7 Else: ELPAY				
Derived		Show Card		CARI	

OTHFUELFU1, OTHFUELFU2, OTHFUELFU3, OTHFUELFU4, OTHFUELFU5, OTHFUELFU6, OTHFUELFU7					
ASK		If OTHFUELUSE=1			
<p>Which of these other fuels do you also use? Is it...</p> <p>Read responses and mark all that apply.</p> <ul style="list-style-type: none"> 5 Electricity, 1 Natural gas, 2 Propane (bottled gas), 3 Fuel oil, 4 Kerosene, 7 Wood, or 8 Solar energy? 					
NEXT		If OTHFUELFU1-7=5: OTHFUELFUEL Else if OTHFUELFU1-7=1: OTHFUELFUNG Else if OTHFUELFU1-7=2: OTHFUELFULP Else if OTHFUELFU1-7=3: OTHFUELFUFO Else if OTHFUELFU1-7=4: OTHFUELFUKE Else if OTHFUELFU1-7=7: OTHFUELFUWO Else if OTHFUELFU1-7=8: OTHFUELFUSO			
Derived			Show Card		CARI

OTHFUELFUEL (New)					
ASK		If OTHFUELFU1-7=5			
<p>Could you tell me how electricity is used in your home?</p> <p>Open response</p>					
NEXT		If OTHFUELFU1-7=1: OTHFUELFUNG Else if OTHFUELFU1-7=2: OTHFUELFULP Else if OTHFUELFU1-7=3: OTHFUELFUFO Else if OTHFUELFU1-7=4: OTHFUELFUKE Else if OTHFUELFU1-7=7: OTHFUELFUWO Else if OTHFUELFU1-7=8: OTHFUELFUSO Else: ELPAY			
Derived			Show Card		CARI

OTHFUELFUNG (New)					
ASK		If OTHFUELFU1-7=1			
<p>Could you tell me how natural gas is used in your home?</p> <p>Open response</p>					

NEXT	If OTHFUELFU1-7=2: OTHFUELFULP Else if OTHFUELFU1-7=3: OTHFUELFUFO Else if OTHFUELFU1-7=4: OTHFUELFUKE Else if OTHFUELFU1-7=7: OTHFUELFUWO Else if OTHFUELFU1-7=8: OTHFUELFUSO Else: ELPAY				
Derived		Show Card		CARI	

OTHFUELFULP (New)					
ASK	If OTHFUELFU1-7=2				
Could you tell me how propane is used in your home? Open response					
NEXT	If OTHFUELFU1-7=3: OTHFUELFUFO Else if OTHFUELFU1-7=4: OTHFUELFUKE Else if OTHFUELFU1-7=7: OTHFUELFUWO Else if OTHFUELFU1-7=8: OTHFUELFUSO Else: ELPAY				
Derived		Show Card		CARI	

OTHFUELFUFO (New)					
ASK	If OTHFUELFU1-7=3				
Could you tell me how fuel oil is used in your home? Open response					
NEXT	If OTHFUELFU1-7=4: OTHFUELFUKE Else if OTHFUELFU1-7=7: OTHFUELFUWO Else if OTHFUELFU1-7=8: OTHFUELFUSO Else: ELPAY				
Derived		Show Card		CARI	

OTHFUELFUKE (New)					
ASK	If OTHFUELFU1-7=4				
Could you tell me how kerosene is used in your home? Open response					
NEXT	If OTHFUELFU1-7=7: OTHFUELFUWO Else if OTHFUELFU1-7=8: OTHFUELFUSO Else: ELPAY				
Derived		Show Card		CARI	

OTHFUELFUWO (New)					
ASK	If OTHFUELFU1-7=7				
<p>Could you tell me how wood is used in your home?</p> <p>Open response</p>					
NEXT	If OTHFUELFU1-7=8: OTHFUELFUSO Else: ELPAY				
Derived		Show Card		CARI	

OTHFUELFUSO (New)					
ASK	If OTHFUELFU1-7=8				
<p>Could you tell me how solar is used in your home?</p> <p>Open response</p>					
NEXT	ELPAY				
Derived		Show Card		CARI	

ELPAY (New)					
ASK	If USEEL=1				
<p>Now I would like to ask you a few questions about how your energy bills are paid.</p> <p>Place show card 29 in front of the respondent.</p> <p>Please look at Card 29. Which of the following describes who is responsible for paying for the electricity used in this home</p> <ul style="list-style-type: none"> 1 Household is responsible for paying for all used in this home 2 All used in this home is included in the rent or condo fee 3 Some is paid by the household, some is included in the rent or condo fee 9 Paid for some other way 					
NEXT	If ELPAY=3: PELHEAT Else if USENG=1: NGPAY Else if USEFO=1: FOPAY Else if USELP=1: LPGPAY Else if USEKERO=1: KERODEL Else if USEWOOD=1: WOODLOGS, WDSCRAP, WDPellet, WDOther Else: IVCOMMFilter				
Derived		Show Card	Yes	CARI	Yes

PELHEAT (Changed from 2009)					
ASK	If ELPAY=3				
<p>Place show card 30 in front of the respondent.</p> <p>Please look at Card 30. For which electricity uses are the costs included in your rent or condo fee?</p> <p>Heating?</p> <p>1 Yes 0 No</p>					
NEXT	PELHOTWA				
Derived		Show Card	Yes	CARI	

PELHOTWA (Changed from 2009)					
ASK	If ELPAY=3				
<p>Water heating?</p> <p>1 Yes 0 No</p>					
NEXT	PELAC				
Derived		Show Card	Yes	CARI	

PELAC (Changed from 2009)					
ASK	If ELPAY=3				
<p>Air conditioning?</p> <p>1 Yes 0 No</p>					
NEXT	PELCOOK				
Derived		Show Card	Yes	CARI	

PELCOOK (Changed from 2009)					
ASK	If ELPAY=3				
<p>Cooking?</p> <p>1 Yes 0 No</p>					

NEXT	PELLIGHT				
Derived		Show Card	Yes	CARI	

PELLIGHT (Changed from 2009)					
ASK	If ELPAY=3				
<p>Lighting and appliances?</p> <p>1 Yes 0 No</p>					
NEXT	If USENG=1: NGPAY Else if USEFO=1: FOPAY Else if USELP=1: LPGPAY Else if USEKERO=1: KERODEL Else if USEWOOD=1: WOODLOGS, WDSCRAP, WDPellet, WDOTHER Else: IVCOMMFILTER				
Derived		Show Card	Yes	CARI	

NGPAY (New)					
ASK	If USENG=1				
<p>Place show card 29 in front of the respondent.</p> <p>Please look at Card 29. Which of the following describes who is responsible for paying for the natural gas used in this home?</p> <p>1 Household is responsible for paying for all used in this home 2 All used in this home is included in the rent or condo fee 3 Some is paid by the household, some is included in the rent or condo fee 9 Paid for some other way</p>					
NEXT	If NGPAY=3: PUGHEAT Else if USEFO=1: FOPAY Else if USELP=1: LPGPAY Else if USEKERO=1: KERODEL Else if USEWOOD=1: WOODLOGS, WDSCRAP, WDPellet, WDOTHER Else: IVCOMMFILTER				
Derived		Show Card	Yes	CARI	

PUGHEAT (Changed from 2009)					
ASK	If NGPAY=3				
<p>For which natural gas uses are the costs included in your rent or condo fee?</p> <p>Heating?</p> <p>1 Yes 0 No</p>					
NEXT	PUGHOTWA				
Derived		Show Card		CARI	

PUGHOTWA (Changed from 2009)					
ASK	If NGPAY=3				
<p>Water heating?</p> <p>1 Yes 0 No</p>					
NEXT	PUGCOOK				
Derived		Show Card		CARI	

PUGCOOK (Changed from 2009)					
ASK	If NGPAY=3				
<p>Cooking?</p> <p>1 Yes 0 No</p>					
NEXT	PUGOTH				
Derived		Show Card		CARI	

PUGOTH (Changed from 2009)					
ASK	If NGPAY=3				
<p>Other uses?</p> <p>1 Yes 0 No</p>					

NEXT	If USEFO=1: FOPAY Else if USELP=1: LPGPAY Else if USEKERO=1: KERODEL Else if USEWOOD=1: WOODLOGS, WDSCRAP, WDPellet, WDOTHER Else: IVCOMMFILTER				
Derived		Show Card		CARI	

FOPAY (Changed from 2009)					
ASK	If USEFO=1				
<p>Place show card 29 in front of the respondent.</p> <p>Please look at Card 29. Which of the following describes who is responsible for paying for the fuel oil used in this home?</p> <ul style="list-style-type: none"> 1 Household is responsible for paying for all used in this home 2 All used in this home is included in the rent or condo fee 3 Some is paid by the household, some is included in the rent or condo fee 9 Paid for some other way 					
NEXT	If USELP=1: LPGPAY Else if FOPAY in(1,3,4): QUANTFO Else if USEKERO=1: KERODEL Else if USEWOOD=1: WOODLOGS, WDSCRAP, WDPellet, WDOTHER Else: IVCOMMFILTER				
Derived		Show Card	Yes	CARI	

LPGPAY (Changed from 2009)					
ASK	If USELP=1				
<p>Place show card 29 in front of the respondent.</p> <p>Please look at Card 29. Which of the following describes who is responsible for paying for the propane (bottled gas) used in this home?</p> <ul style="list-style-type: none"> 1 Household is responsible for paying for all used in this home 2 All used in this home is included in the rent or condo fee 3 Some is paid by the household, some is included in the rent or condo fee 9 Paid for some other way 					
NEXT	If LPGPAY in(1,3,4): LPGDELV Else: LPGCASH				
Derived		Show Card	Yes	CARI	

LPGDELV (Changed from 2009)					
ASK	If LPGPAY in(1,3,4)				
<p>Is propane (bottled gas) delivered to your home?</p> <p>1 Yes 0 No</p>					
NEXT	If LPGDELV=1: NDIFLPCO Else: LPGCASH				
Derived		Show Card		CARI	

NDIFLPCO (Changed from 2009)					
ASK	If LPGDELV=1				
<p>How many different companies delivered propane (bottled gas) to your home in the last year?</p> <p>0 - 9</p>					
NEXT	If NLPDELCO>0: NLPDELNC Else: LPGCASH				
Derived		Show Card		CARI	

NLPDELNC (Changed from 2009)					
ASK	If NLPDELCO>0				
<p>About how many deliveries did your household get in the last year?</p> <p>1 - 25</p>					
NEXT	LPGCASH				
Derived		Show Card		CARI	

LPGCASH (New)					
ASK	If USELP=1				
<p>In the last year, did your household buy propane (bottled gas) and bring it home?</p> <p>1 Yes 0 No</p>					

NEXT	If LPGCASH=1: N LPGCASH Else if FOPAY in(1,3,4): QUANTFO Else if USEKERO=1: KERODEL Else if USEWOOD=1: WOODLOGS, WDSCRAP, WDPellet, WDOTHER Else: IVCOMMFilter				
Derived		Show Card		CARI	

NLPGCASH (New)					
ASK	If LPGCASH=1				
In the last year, about how many times did your household buy propane and bring it home? 1 - 99					
NEXT	LPGTANKLB				
Derived		Show Card		CARI	

LPGTANKLB (New)					
ASK	If LPGCASH=1				
Thinking about the typical propane tank your household uses, how many pounds does it hold? Most cylinder exchange programs use 20 pound tanks. 1 - 99					
NEXT	PRICELPG				
Derived		Show Card		CARI	

PRICLPG (New)					
ASK		If LPGCASH=1			
In the last year, about how much did your household spend each time propane was purchased? 1 - 999					
NEXT		If FOPAY in(1,3,4): QUANTFO Else if USEKERO=1: KERODEL Else if USEWOOD=1: WOODLOGS, WDSCRAP, WDPellet, WDOTHER Else: IVCOMMFILTER			
Derived			Show Card		CARI

QUANTFO (Changed from 2009)					
ASK	If FOPAY in(1,3,4)				
<p>Place show card 31 in front of the respondent.</p> <p>Please look at Card 31. About how many gallons of fuel oil did your household use in the last year?</p> <p>1 Less than 100 gallons 2 100 to 499 gallons 3 500 to 1,000 gallons 4 More than 1,000 gallons</p>					
NEXT	NDIFFOCO				
Derived		Show Card	Yes	CARI	

NDIFFOCO (Changed from 2009)					
ASK	If FOPAY in(1,3,4)				
<p>How many different companies delivered fuel oil to your home in the last year?</p> <p>0 - 9</p>					
NEXT	If NDIFFOCO>0: NFODELNC Else if USEKERO=1: KERODEL Else if USEWOOD=1: WOODLOGS, WDSCRAP, WDPellet, WDOTHER Else: IVCOMMFILTER				
Derived		Show Card		CARI	

NFODELNC (Changed from 2009)					
ASK	If NDIFFOCO>0				
<p>About how many deliveries did your household get in the last year?</p> <p>1 - 25</p>					
NEXT	If USEKERO=1: KERODEL Else if USEWOOD=1: WOODLOGS, WDSCRAP, WDPellet, WDOTHER Else: IVCOMMFILTER				
Derived		Show Card		CARI	

KERODEL					
ASK	If USEKERO=1				
<p>Is kerosene delivered to your home?</p> <p>1 Yes 0 No</p>					
NEXT	If KERODEL=1: NDIFKRCO Else: KERO CASH				
Derived		Show Card		CARI	

NDIFKRCO (Changed from 2009)					
ASK	If KERODEL=1				
<p>How many different companies delivered kerosene to your household in the last year?</p> <p>0 - 9</p>					
NEXT	NKRDEL				
Derived		Show Card		CARI	

NKRDEL (Changed from 2009)					
ASK	If KERODEL=1				
<p>About how many deliveries did your household get in the last year?</p> <p>1 - 25</p>					
NEXT	KERO CASH				
Derived		Show Card		CARI	

KERO CASH (Changed from 2009)					
ASK	If USEKERO=1				
<p>Did your household buy kerosene in the last year and bring it home, that is, cash and carry?</p> <p>1 Yes 0 No</p>					
NEXT	If KERO CASH=1: NOCR CASH Else if USEWOOD=1: WOODLOGS, WDSCRAP, WDPellet, WDOther Else: IVCOMMFilter				
Derived		Show Card		CARI	

NOCRCASH (Changed from 2009)					
ASK	If KEROCASH=1				
<p>How many times in the last year did your household buy kerosene and bring it home?</p> <p>1 - 55</p>					
NEXT	If NOCRCASH>1: NKR GALNC				
Derived		Show Card		CARI	

NKR GALNC (Changed from 2009)					
ASK	If KEROCASH=1				
<p>On average, how many gallons of kerosene did your household buy and bring home each time?</p> <p>0 - 77</p>					
NEXT	PRICEKER				
Derived		Show Card		CARI	

PRICEKER					
ASK	If KEROCASH=1				
<p>On average, about how much per gallon did your household pay for kerosene?</p> <p>0.50 - 5.00</p>					
NEXT	If USEWOOD=1: WOODLOGS, WDSCRAP, WDPELLET, WDOTHER Else: IVCOMMFILTER				
Derived		Show Card		CARI	

WOODLOGS, WDSCRAP, WDPELLET, WDOTHER (Changed from 2009)					
ASK	If USEWOOD=1				
<p>You mentioned that you use wood as a fuel in your household. What kind of wood does your household burn? Do you burn wood logs or split wood, wood scraps, wood pellets, or any other kind of wood?</p> <p>Mark all that apply.</p> <p>Wood logs or split wood (WOODLOGS) Wood scraps (WOODSCRAP) Wood pellets (WDPELLET) Any other kind of wood (WDOTHER)</p>					

NEXT	If WDPELLET=1: PELLETAMT Else if WOODLOGS=1 or WDSCRAP=1 or WDOTHER=1: NUMCORDS Else: WOODPUR				
Derived		Show Card		CARI	

PELLETAMT (New)					
ASK	If WDPELLET=1				
<p>In the last year, about how many 40-pound bags of wood pellets did your household burn? A ton (which may also be called a pallet) equals fifty 40-pound bags.</p> <p>0 - 999</p>					
NEXT	If WOODLOGS=1 or WDSCRAP=1 or WDOTHER=1: NUMCORDS Else: WOODPUR				
Derived		Show Card		CARI	

NUMCORDS (Changed from 2009)					
ASK	If WOODLOGS=1 or WDSCRAP=1 or WDOTHER=1				
<p>Place show card 32 in front of the respondent.</p> <p>Please look at Card 32. In the last year, about how many cords of wood did your household burn?</p> <p>1 Half a cord or less 2 About one cord 3 About two cords 4 Three to five cords 5 More than five cords</p>					
NEXT	If NUMCORDS=5: WWOODAMT Else: WOODPUR				
Derived		Show Card	Yes	CARI	

WOODAMT (Changed from 2009)					
ASK	If NUMCORDS=5				
<p>In the last year, about how many cords of wood did your household burn?</p> <p>5.00 - 100.00</p>					
NEXT	WOODPUR				
Derived		Show Card		CARI	

WOODPUR (New)					
ASK	If USEWOOD=1				
<p>Was the wood used by your household in the last year...</p> <ol style="list-style-type: none"> 1 Purchased by your household, 2 Obtained free of charge, or 3 A combination of purchased and obtained free of charge? 					
NEXT	If WOODPUR in(1,3): WOODCOST				
Derived		Show Card		CARI	

WOODCOST (New)					
ASK	If WOODPUR in(1,3)				
<p>In the last year, about how much did your household spend on wood?</p> <p>0 - 99999</p>					
NEXT	IVCOMMHFILTER				
Derived		Show Card		CARI	

IVCOMMHFILTER					
ASK	All respondents				
<p>Interviewer Task: If you have any comments that might suggest that the data collected in the fuels used section should be analyzed by central office staff, enter 1. If you have no comments regarding the quality of data entered in this section, enter 2.</p> <ol style="list-style-type: none"> 1 I have comments regarding the quality of data in this section 2 I do not have comments 					
NEXT	If IVCOMMHFILTER=1: IVCOMMH Else: Section I				
Derived		Show Card		CARI	

IVCOMMH					
ASK	If IVCOMMHFILTER=1				
<p>Interviewer Task: Record any information here about the fuels used by this housing unit that might provide clarification to the respondent's answers.</p> <p>Open response</p>					

NEXT	Section I				
Derived		Show Card		CARI	

SECTION I: HOUSING UNIT MEASUREMENT

SQFTEST (Changed from 2009)					
ASK	All respondents				
<p>To understand the usage of energy in your home, we need to know about its size and shape. About how many square feet is your home? Your best estimate will do.</p> <p style="text-align: center;">100 - 50,000</p>					
NEXT	If CELLAR=1 and SQFTEST not in(DK,REF): SQFTINCB Else if ATTIC=1: SQFTINCA Else if PRKGPLC1=1: SQFTINCG Else if STORIES in(32,40,50,-9) or NAPTFLRS>3: MEASURE Else: SHAPE1FLRA				
Derived		Show Card		CARI	Yes

SQFTINCB (New)					
ASK	If CELLAR=1 and SQFTEST not in(DK,REF)				
<p>Does your estimate of square footage include your basement?</p> <p style="text-align: center;">1 Yes 0 No</p>					
NEXT	If ATTIC=1: SQFTINCA Else if PRKGPLC1=1: SQFTINCG Else if STORIES in(32,40,50,-9) or NAPTFLRS>3: MEASURE Else: SHAPE1FLRA				
Derived		Show Card		CARI	

SQFTINCA (New)					
ASK	If ATTIC=1 and SQFTEST not in(DK,REF)				
<p>Does your estimate of square footage include your attic?</p> <p style="text-align: center;">1 Yes 0 No</p>					
NEXT	If PRKGPLC1=1: SQFTINCG Else if STORIES in(32,40,50,-9) or NAPTFLRS>3: MEASURE Else: SHAPE1FLRA				
Derived		Show Card		CARI	

SQFTINCG (New)					
ASK	If PRKGPLC1=1 and SQFTEST not in(DK,REF)				
<p>Does your estimate of square footage include your attached garage?</p> <p>1 Yes 0 No</p>					
NEXT	If STORIES in(32,40,50,-9) or NAPTFILRS>3: MEASURE Else: SHAPE1FLRA				
Derived		Show Card		CARI	

SHAPE1FLRA (Changed from 2009)					
ASK	If STORIES not in(40,50)				
<p>Place show card 33 in front of the respondent.</p> <p>Please look at Card 33. Thinking about the main or first floor of your home, let's work together to find which of these best describes the shape [If GARGLOC=2: including the garage].</p> <p>1 Square or Rectangle 2 T-shaped (2 Squares or Rectangles) 3 L-shaped (2 Squares or Rectangles) 4 Some other shape</p>					
NEXT	If STORIES in(20,31) or NAPTFILRS>1: SHAPE2FLR Else if ATTICFIN in(1,2) or ATTICHEAT=1 or ATTCCOOL=1: SHAPEATTIC Else if CELLAR=1: SHAPEBASE Else: MEASURE				
Derived		Show Card	Yes	CARI	

SHAPE2FLR					
ASK	If STORIES in(20,31) or NAPTFILRS>1				
<p>Is the shape of the second floor of this housing unit the same as the first floor?</p> <p>1 Yes 0 No</p>					
NEXT	If SHAPE2FLR=1: SIZE2FLR Else: SHAPE2FLRA				
Derived		Show Card		CARI	

SIZE2FLR					
ASK	If SHAPE2FLR=1				
<p>Is the size of the second floor of this housing unit the same as the first floor?</p> <p>1 Yes 0 No</p>					
NEXT	If STORIES=31 or NAPTFLRS>2: SHAPE3FLR Else if ATTICFIN in(1,2) or ATTICHEAT=1 or ATTCCOOL=1: SHAPEATTIC Else if CELLAR=1: SHAPEBASE Else if GARGLOC=2 and SIZE2FLR=1: OVERGARG Else: MEASURE				
Derived		Show Card		CARI	

SHAPE2FLRA (Changed from 2009)					
ASK	If (STORIES in(20,31) or NAPTFLRS>1) and SHAPE2FLR ne 1				
<p>Place show card 33 in front of the respondent.</p> <p>Please look at Card 33. Thinking about the second floor of your home, which best describes the shape?</p> <p>1 Square or Rectangle 2 T-shaped (2 Squares or Rectangles) 3 L-shaped (2 Squares or Rectangles) 4 Some other shape</p>					
NEXT	If STORIES=31 or NAPTFLRS>2: SHAPE3FLR Else if ATTICFIN in(1,2) or ATTICHEAT=1 or ATTCCOOL=1: SHAPEATTIC Else if CELLAR=1: SHAPEBASE Else: MEASURE				
Derived		Show Card	Yes	CARI	

SHAPE3FLR					
ASK	If STORIES=31 or NAPTFLRS>2				
<p>Is the shape of the third floor of this housing unit the same as the second floor?</p> <p>1 Yes 0 No</p>					
NEXT	If SHAPE3FLR=1: SIZE3FLR Else: SHAPE3FLRA				
Derived		Show Card		CARI	

SIZE3FLR					
ASK	If SHAPE3FLR=1				
<p>Is the size of the third floor of this housing unit the same as the second floor?</p> <p>1 Yes 0 No</p>					
NEXT	If ATTICFIN in(1,2) or ATTICHEAT=1 or ATTCCOOL=1: SHAPEATTIC Else if CELLAR=1: SHAPEBASE Else if GARGLOC=2 and SIZE2FLR=1: OVERGARG Else: MEASURE				
Derived		Show Card		CARI	

SHAPE3FLRA (Changed from 2009)					
ASK	If (STORIES=31 or NAPTFLRS>2) and SHAPE3FLR ne 1				
<p>Place show card 33 in front of the respondent.</p> <p>Please look at Card 33. Thinking about the third floor of your home, which best describes the shape?</p> <p>1 Square or Rectangle 2 T-shaped (2 Squares or Rectangles) 3 L-shaped (2 Squares or Rectangles) 4 Some other shape</p>					
NEXT	If ATTICFIN in(1,2) or ATTICHEAT=1 or ATTCCOOL=1: SHAPEATTIC Else if CELLAR=1: SHAPEBASE Else if GARGLOC=2 and SIZE2FLR=1: OVERGARG Else: MEASURE				
Derived		Show Card	Yes	CARI	

SHAPEATTIC (Changed from 2009)					
ASK	If ATTICFIN in(1,2) or ATTICHEAT=1 or ATTCCOOL=1				
<p>Is the shape of the attic of this home the same as the floor under it?</p> <p>1 Yes 0 No</p>					
NEXT	If SHAPEATTIC=1: SIZEATTIC Else: SHAPEATTICA				
Derived		Show Card		CARI	

SIZEATTIC					
ASK	If SHAPEATTIC=1				
<p>Is the size of the attic of this housing unit the same as the floor under it?</p> <p>1 Yes 0 No</p>					
NEXT	If CELLAR=1: SHAPEBASE Else if (GARGLOC=2 and STORIES=10 and SIZEATTIC=1) or (GARGLOC=2 and SIZE2FLR=1): OVERGARG Else: MEASURE				
Derived		Show Card		CARI	

SHAPEATTICA (Changed from 2009)					
ASK	If (ATTICFIN in(1,2) or ATTICHEAT=1 or ATTCCOOL=1) and SHAPEATTIC ne 1				
<p>Place show card 33 in front of the respondent.</p> <p>Please look at Card 33. Thinking about the attic of your home, which best describes the shape?</p> <p>1 Square or Rectangle 2 T-shaped (2 Squares or Rectangles) 3 L-shaped (2 Squares or Rectangles) 4 Some other shape</p>					
NEXT	If CELLAR=1: SHAPEBASE Else if GARGLOC=2 and SIZE2FLR=1: OVERGARG Else: MEASURE				
Derived		Show Card	Yes	CARI	

SHAPEBASE (Changed from 2009)					
ASK	If CELLAR=1				
<p>Is the shape of the basement of this home the same as the floor directly above it?</p> <p>1 Yes 0 No</p>					
NEXT	If SHAPEBASE=1: SIZEBASE Else: SHAPEBASEA				
Derived		Show Card		CARI	Yes

SIZEBASE					
ASK	If SHAPEBASE=1				
<p>Is the size of the basement of this home the same as the floor directly above it?</p> <p>1 Yes 0 No</p>					
NEXT	If (GARGLOC=1 and SIZEBASE=1) or (GARGLOC=2 and STORIES=10 and SIZEATTIC=1) or (GARGLOC=2 and SIZE2FLR=1): OVERGARG Else: MEASURE				
Derived		Show Card		CARI	Yes

SHAPEBASEA (Changed from 2009)					
ASK	If CELLAR=1 and SHAPEBASE ne 1				
<p>Place show card 33 in front of the respondent.</p> <p>Please look at Card 33. Thinking about the basement of your home, which best describes the shape [If LocationOfGarage=1: including the garage]?</p> <p>1 Square or Rectangle 2 T-shaped (2 Squares or Rectangles) 3 L-shaped (2 Squares or Rectangles) 4 Some other shape</p>					
NEXT	If (GARGLOC=2 and STORIES=10 and SIZEATTIC=1) or (GARGLOC=2 and SIZE2FLR=1): OVERGARG Else: MEASURE				
Derived		Show Card	Yes	CARI	

OVERGARG (New)					
ASK	If (GARGLOC=1 and SIZEBASE=1) or (GARGLOC=2 and STORIES=10 and SIZEATTIC=1) or (GARGLOC=2 and SIZE2FLR=1)				
<p>I've recorded that your [if GARGLOC=1 and SIZEBASE=1: first floor] [if GARGLOC=2 and STORIES=10 and SIZEATTIC=1: attic] [if GARGLOC=2 and SIZE2FLR=1: second floor] is the same shape and size as your [if GARGLOC=1 and SIZEBASE=1: basement] [if GARGLOC=2: first floor], which includes your garage. Is there a room over your garage?</p> <p>1 Yes 0 No</p>					
NEXT	MEASURE				
Derived		Show Card		CARI	

MEASURE (Changed from 2009)					
ASK	All respondents				
<p>[If SQFTEST=DK,RF: In order to best understand the usage of energy in your home; If SQFTEST>0: Even though you have given me your best estimate,] we need to know its exact size in square feet. With your permission, I would like to measure your home.</p> <p>1 Measurements follow 2 Respondent refused</p>					
NEXT	<p>If MEASURE=1 and (STORIES in(32,40,50,-9) or NAPTFLRS>3 or SHAPE1FLRA=4 or SHAPE2FLRA=4 or SHAPE3FLRA=4 or SHAPEATTICA=4 or SHAPEBASEA=4): Green Book Else if MEASURE=1: Pink Worksheet Else: IVCOMMIFILTER</p>				
Derived		Show Card		CARI	Yes

Green Book (Changed from 2009)					
ASK	If MEASURE=1 and (STORIES in(32,40,50,-9) or NAPTFLRS>3 or SHAPE1FLRA=4 or SHAPE2FLRA=4 or SHAPE3FLRA=4 or SHAPEATTICA=4 or SHAPEBASEA=4)				
<p>Interviewer Task: For housing units that are split-levels, have four or more floors, or have floors with non-standard shapes, the interviewer uses the "Green Book" to sketch each floor and record its measurements.</p>					
NEXT	IVCOMMIFILTER				
Derived		Show Card		CARI	

Pink Worksheet (Changed from 2009)					
ASK	If MEASURE=1 and not Green Book				
<p>Interviewer Task: For all other housing units, the interviewer uses the "Pink Worksheet" to record the measurements for each floor, then enters the dimensions into CAPI.</p>					
NEXT	IVCOMMIFILTER				
Derived		Show Card		CARI	

IVCOMMIFILTER					
ASK	All respondents				
<p>Interviewer Task: If you have any comments that might suggest that the data collected in the housing unit measurement section should be analyzed by central office staff, enter 1. If you have no comments regarding the quality of data entered in this section, enter 2.</p> <p>1 I have comments regarding the quality of data in this section 2 I do not have comments</p>					

NEXT	If IVCOMMIFILTER=1: IVCOMMI Else: Section J				
Derived		Show Card		CARI	

IVCOMMI					
ASK	If IVCOMMIFILTER=1				
<p>Interviewer Task: Record any information here about this household's measurements that might provide clarification to the respondent's answers.</p> <p>Open response</p>					
NEXT	Section J				
Derived		Show Card		CARI	

SECTION J: FUEL BILLS

INTRO (Changed from 2009)					
ASK	If ELPAY in(1,3,4) or NGPAY in(1,3,4) or LPGDELV=1 or FOPAY in(1,3,4) or KERODEL=1				
<p>In this interview you have told me how your household uses energy. In addition, we would like to find out how much [ENTER THE FUELS THAT THE HOUSEHOLD USES] you actually used in the past year.</p> <p>If it is alright with you, at the end of the interview I will also scan copies of these bills into my computer.</p> <p style="text-align: center;">1 Continue</p>					
NEXT	If ELPAY in(1,3,4): ELBILLTOSCAN Else if NGPAY in(1,3,4): NGBILLTOSCAN Else if LPGDELV=1: LPGBILLTOSCAN Else if FOPAY in(1,3,4): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN				
Derived		Show Card		CARI	

ELBILLTOSCAN (Changed from 2009)					
ASK	If ELPAY in(1,3,4)				
<p>Do you have a recent electric bill that I can scan into my computer?</p> <p style="text-align: center;">1 Yes 0 No</p>					
NEXT	If ELBILLTOSCAN=0: ELWHYNOT Else: ELSUPPNAME				
Derived		Show Card		CARI	Yes

ELWHYNOT (Changed from 2009)					
ASK	If ELBILLTOSCAN=0				
<p style="color: blue;">Please indicate why there is no bill to scan.</p> <p style="text-align: center;">1 Respondent only receives this bill electronically 2 Confidentiality/privacy concern 3 Respondent doesn't have this bill now 4 Other</p>					
NEXT	ELSUPPNAME				
Derived		Show Card		CARI	

ELSUPPNAME (Changed from 2009)					
ASK	If ELPAY in(1,3,4)				
<p>What is the name of your household's electricity supplier?</p> <p>Interviewer attempts to find the response in a look-up table of known electricity suppliers. If supplier is not found, the interviewer records an open response.</p>					
NEXT	If electricity supplier was found in look-up table: ELLOOKUPCNFRM Else if ELBILLTOSCAN=1 and electricity supplier was not found in look-up table: ELSUPPSTREET Else if NGPAY in(1,3,4): NGBILLTOSCAN Else if LPGDELV=1: LPGBILLTOSCAN Else if FOPAY in(1,3,4): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT				
Derived		Show Card		CARI	

ELLOOKUPCNFRM					
ASK	If electricity supplier was found in look-up table				
<p>Just to verify, I have selected that your electricity supplier is [SUPPLIER]. Is that correct?</p> <p>1 Yes 0 No</p>					
NEXT	If ELLOOKUPCNFRM=0: ELSUPPNAME Else if NGPAY in(1,3,4): NGBILLTOSCAN Else if LPGDELV=1: LPGBILLTOSCAN Else if FOPAY in(1,3,4): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT				
Derived		Show Card		CARI	

ELSUPPSTREET					
ASK	If ELBILLTOSCAN=1 and electricity supplier was not found in look-up table				
<p>RECORD the supplier's street address as it appears on the bill here.</p> <p>Open response</p>					
NEXT	ELSUPPCITY				
Derived		Show Card		CARI	

ELSUPPCITY					
ASK	If ELBILLTOSCAN=1 and electricity supplier was not found in look-up table				
<p>RECORD the supplier's city as it appears on the bill here.</p> <p>Open response</p>					
NEXT	ELSUPPSTATE				
Derived		Show Card		CARI	

ELSUPPSTATE					
ASK	If ELBILLTOSCAN=1 and electricity supplier was not found in look-up table				
<p>RECORD the supplier's state as it appears on the bill here.</p> <p>Open response</p>					
NEXT	ELSUPPZIP				
Derived		Show Card		CARI	

ELSUPPZIP					
ASK	If ELBILLTOSCAN=1 and electricity supplier was not found in look-up table				
<p>RECORD the supplier's zip as it appears on the bill here.</p> <p>Open response</p>					
NEXT	ELSUPPAREACODE				
Derived		Show Card		CARI	

ELSUPPAREACODE					
ASK	If ELBILLTOSCAN=1 and electricity supplier was not found in look-up table				
<p>RECORD the supplier's area code as it appears on the bill here.</p> <p>001 - 999</p>					
NEXT	ELSUPPTELNUMBER				
Derived		Show Card		CARI	

ELSUPPTELNUMBER					
ASK	If ELBILLTOSCAN=1 and electricity supplier was not found in look-up table				
<p>RECORD the supplier's telephone number as it appears on the bill here.</p> <p>1000001 - 9999999</p>					
NEXT	If NGPAY in(1,3,4): NGBILLTOSCAN Else if LPGDELV=1: LPGBILLTOSCAN Else if FOPAY in(1,3,4): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT				
Derived		Show Card		CARI	

NGBILLTOSCAN (Changed from 2009)					
ASK	If NGPAY in(1,3,4)				
<p>Do you have a recent natural gas bill that I can scan into my computer?</p> <p>1 Yes 0 No</p>					
NEXT	If NGBILLTOSCAN=0: NGWHYNOT Else: NGSUPPNAME				
Derived		Show Card		CARI	

NGWHYNOT (Changed from 2009)					
ASK	If NGBILLTOSCAN=0				
<p>Please indicate why there is no bill to scan.</p> <p>1 Respondent only receives this bill electronically 2 Confidentiality/privacy concern 3 Respondent doesn't have this bill now 4 Other</p>					
NEXT	NGSUPPNAME				
Derived		Show Card		CARI	

NGSUPPNAME (Changed from 2009)					
ASK		If NGPAY in(1,3,4)			
<p>What is the name of your household's natural gas supplier?</p> <p>Interviewer attempts to find the response in a look-up table of known natural gas suppliers. If supplier is not found, the interviewer records an open response.</p>					
NEXT		If natural gas supplier was found in look-up table: NGLOOKUPCNFRM Else if NGBILLTOSCAN=1 and natural gas supplier was not found in look-up table: NGSUPPSTREET Else if LPGDELV=1: LPGBILLTOSCAN Else if FOPAY in(1,3,4): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT			
Derived			Show Card		CARI

NGLOOKUPCNFRM					
ASK		If natural gas supplier was found in look-up table			
<p>Just to verify, I have selected that your natural gas supplier is [SUPPLIER]. Is that correct?</p> <p>1 Yes 0 No</p>					
NEXT		If NGLOOKUPCNFRM=0: NGSUPPNAME Else if LPGPAY in(1,3,4): LPGBILLTOSCAN Else if FOPAY in(1,3,4): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT			
Derived			Show Card		CARI

NGSUPPSTREET					
ASK		If NGBILLTOSCAN=1 and natural gas supplier was not found in look-up table			
<p>RECORD the supplier's street address as it appears on the bill here.</p> <p>Open response</p>					
NEXT		NGSUPPCITY			
Derived			Show Card		CARI

NGSUPPCITY					
ASK	If NGBILLTOSCAN=1 and natural gas supplier was not found in look-up table				
<p>RECORD the supplier's city as it appears on the bill here.</p> <p>Open response</p>					
NEXT	NGSUPPSTATE				
Derived		Show Card		CARI	

NGSUPPSTATE					
ASK	If NGBILLTOSCAN=1 and natural gas supplier was not found in look-up table				
<p>RECORD the supplier's state as it appears on the bill here.</p> <p>Open response</p>					
NEXT	NGSUPPZIP				
Derived		Show Card		CARI	

NGSUPPZIP					
ASK	If NGBILLTOSCAN=1 and natural gas supplier was not found in look-up table				
<p>RECORD the supplier's zip as it appears on the bill here.</p> <p>Open response</p>					
NEXT	NGSUPPAREACODE				
Derived		Show Card		CARI	

NGSUPPAREACODE					
ASK	If NGBILLTOSCAN=1 and natural gas supplier was not found in look-up table				
<p>RECORD the supplier's area code as it appears on the bill here.</p> <p>001 - 999</p>					
NEXT	NGSUPPTELNUMBER				
Derived		Show Card		CARI	

NGSUPPTELNUMBER					
ASK	If NGBILLTOSCAN=1 and natural gas supplier was not found in look-up table				
<p>RECORD the supplier's telephone number as it appears on the bill here.</p> <p>1000001 - 9999999</p>					
NEXT	If LPGDELV=1: LPGBILLTOSCAN Else if FOPAY in(1,3,4): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT				
Derived		Show Card		CARI	

LPGBILLTOSCAN (Changed from 2009)					
ASK	If LPGDELV=1				
<p>Do you have a recent bill from your [If NDIFLPCO>1: most-used] propane (bottled gas) supplier that I can scan into my computer?</p> <p>1 Yes 0 No</p>					
NEXT	If LPGBILLTOSCAN=0: LPGWHYNOT Else: LPGSUPPNAME1				
Derived		Show Card		CARI	

LPGWHYNOT (Changed from 2009)					
ASK	If LPGBILLTOSCAN=0				
<p>Please indicate why there is no bill to scan.</p> <p>1 Respondent only receives this bill electronically 2 Confidentiality/privacy concern 3 Respondent doesn't have this bill now 4 Other</p>					
NEXT	LPGSUPPNAME1				
Derived		Show Card		CARI	

LPGSUPPNAME1					
ASK	If LPGDELV=1				
<p>What is the name of your household's [if NDIFLPCO>1: most used] propane (bottled gas) supplier?</p> <p>Open response</p>					

NEXT	If LPGBILLTOSCAN=1: LPGSUPPSTREET1 Else if NDIFLPCO>1: LPGBILLTOSCAN2 Else if FOPAY in(1,3,4): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT				
Derived		Show Card		CARI	

LPGSUPPSTREET1					
ASK	If LPGBILLTOSCAN=1				
<p>RECORD the supplier's street address as it appears on the bill here.</p> <p>Open response</p>					
NEXT	LPGSUPPCITY1				
Derived		Show Card		CARI	

LPGSUPPCITY1					
ASK	If LPGBILLTOSCAN=1				
<p>RECORD the supplier's city as it appears on the bill here.</p> <p>Open response</p>					
NEXT	LPGSUPPSTATE1				
Derived		Show Card		CARI	

LPGSUPPSTATE1					
ASK	If LPGBILLTOSCAN=1				
<p>RECORD the supplier's state as it appears on the bill here.</p> <p>Open response</p>					
NEXT	LPGSUPPZIP1				
Derived		Show Card		CARI	

LPGSUPPZIP1					
ASK	If LPGBILLTOSCAN=1				
<p>RECORD the supplier's zip as it appears on the bill here.</p> <p>Open response</p>					

NEXT	LPGSUPPAREACODE1				
Derived		Show Card		CARI	

LPGSUPPAREACODE1					
ASK	If LPGBILLTOSCAN=1				
<p>RECORD the supplier's area code as it appears on the bill here.</p> <p>001 - 999</p>					
NEXT	LPGSUPPTELNUMBER1				
Derived		Show Card		CARI	

LPGSUPPTELNUMBER1					
ASK	If LPGBILLTOSCAN=1				
<p>RECORD the supplier's telephone number as it appears on the bill here.</p> <p>1000001 - 9999999</p>					
NEXT	If NDIFLPCO>1: LPGBILLTOSCAN2 Else if FOPAY in(1,3,4): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT				
Derived		Show Card		CARI	

LPGBILLTOSCAN2					
ASK	If NDIFLPCO>1				
<p>Earlier you told me that [FILL: NDIFLPCO] different companies delivered propane (bottled gas) to your home in the past 12 months. Do you have a recent bill from [If NDIFLPCO=2: your other; If NDIFLPCO>2: the second most-used] propane (bottled gas) supplier that I can scan into my computer?</p> <p>1 Yes 0 No</p>					
NEXT	If LPGBILLTOSCAN2=0: LPGWHYNOT2 Else: LPGSUPPNAME2				
Derived		Show Card		CARI	

LPGWHYNOT2 (Changed from 2009)					
ASK	If LPGBILLTOSCAN2=0				
<p>Please indicate why there is no bill to scan.</p> <ul style="list-style-type: none"> 1 Respondent only receives this bill electronically 2 Confidentiality/privacy concern 3 Respondent doesn't have this bill now 4 Other 					
NEXT	LPGSUPPNAME2				
Derived		Show Card		CARI	

LPGSUPPNAME2					
ASK	If NDIFLPCO>1				
<p>What is the name of your household's [If NDIFLPCO=2: other; If NDIFLPCO>2: second most used] propane (bottled gas) supplier?</p> <p>Open response</p>					
NEXT	If LPGBILLTOSCAN2=1: LPGSUPPSTREET2 Else if FOPAY in(1,3,4): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT				
Derived		Show Card		CARI	

LPGSUPPSTREET2					
ASK	If LPGBILLTOSCAN2=1				
<p>RECORD the supplier's street address as it appears on the bill here.</p> <p>Open response</p>					
NEXT	LPGSUPPCITY2				
Derived		Show Card		CARI	

LPGSUPPCITY2					
ASK	If LPGBILLTOSCAN2=1				
<p>RECORD the supplier's city as it appears on the bill here.</p> <p>Open response</p>					

NEXT	LPGSUPPSTATE2				
Derived		Show Card		CARI	

LPGSUPPSTATE2					
ASK	If LPGBILLTOSCAN2=1				
<p>RECORD the supplier's state as it appears on the bill here.</p> <p>Open response</p>					
NEXT	LPGSUPPZIP2				
Derived		Show Card		CARI	

LPGSUPPZIP2					
ASK	If LPGBILLTOSCAN2=1				
<p>RECORD the supplier's zip as it appears on the bill here.</p> <p>Open response</p>					
NEXT	LPGSUPPAREACODE2				
Derived		Show Card		CARI	

LPGSUPPAREACODE2					
ASK	If LPGBILLTOSCAN2=1				
<p>RECORD the supplier's area code as it appears on the bill here.</p> <p>001 - 999</p>					
NEXT	LPGSUPPTELNUMBER2				
Derived		Show Card		CARI	

LPGSUPPTELNUMBER2					
ASK	If LPGBILLTOSCAN2=1				
<p>RECORD the supplier's telephone number as it appears on the bill here.</p> <p>1000001 - 9999999</p>					

NEXT	If FOPAY in(1,3,4): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT				
Derived		Show Card		CARI	

FOBILLTOSCAN					
ASK	If FOPAY in(1,3,4)				
<p>Do you have a recent bill from your [If NDIFFOCO>1: most-used] fuel oil supplier that I can scan into my computer?</p> <p>1 Yes 0 No</p>					
NEXT	If FOBILLTOSCAN=0: FOWHYNOT Else: FOSUPPNAME1				
Derived		Show Card		CARI	

FOWHYNOT (Changed from 2009)					
ASK	If FOBILLTOSCAN=0				
<p>Please indicate why there is no bill to scan.</p> <p>1 Respondent only receives this bill electronically 2 Confidentiality/privacy concern 3 Respondent doesn't have this bill now 4 Other</p>					
NEXT	FOSUPPNAME1				
Derived		Show Card		CARI	

FOSUPPNAME1					
ASK	If FOPAY in(1,3,4)				
<p>What is the name of your household's [if NDIFFOCO>1: most used] fuel oil supplier?</p> <p>Open response</p>					
NEXT	If FOBILLTOSCAN=1: FOSUPPSTREET1 Else if NDIFFOCO>1: FOBILLTOSCAN2 Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT				
Derived		Show Card		CARI	

FOSUPPSTREET1					
ASK	If FOBILLTOSCAN=1				
<p>RECORD the supplier's street address as it appears on the bill here.</p> <p>Open response</p>					
NEXT	FOSUPPCITY1				
Derived		Show Card		CARI	

FOSUPPCITY1					
ASK	If FOBILLTOSCAN=1				
<p>RECORD the supplier's city as it appears on the bill here.</p> <p>Open response</p>					
NEXT	FOSUPPSTATE1				
Derived		Show Card		CARI	

FOSUPPSTATE1					
ASK	If FOBILLTOSCAN=1				
<p>RECORD the supplier's state as it appears on the bill here.</p> <p>Open response</p>					
NEXT	FOSUPPZIP1				
Derived		Show Card		CARI	

FOSUPPZIP1					
ASK	If FOBILLTOSCAN=1				
<p>RECORD the supplier's zip as it appears on the bill here.</p> <p>Open response</p>					
NEXT	FOSUPPAREACODE1				
Derived		Show Card		CARI	

FOSUPPAREACODE1					
ASK	If FOBILLTOSCAN=1				
<p>RECORD the supplier's area code as it appears on the bill here.</p> <p>001 - 999</p>					
NEXT	FOSUPPTELNUMBER1				
Derived		Show Card		CARI	

FOSUPPTELNUMBER1					
ASK	If FOBILLTOSCAN=1				
<p>RECORD the supplier's telephone number as it appears on the bill here.</p> <p>1000001 - 9999999</p>					
NEXT	If NDIFFOCO>1: FOBILLTOSCAN2 Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT				
Derived		Show Card		CARI	

FOBILLTOSCAN2					
ASK	If FOPAY in(1,3,4) and NDIFFOCO>1				
<p>Earlier you told me that [FILL: NDIFFOCO] different companies delivered fuel oil to your home in the past 12 months. Do you have a recent bill from [If NDIFFOCO=2: your other; If NDIFFOCO>2: the second most-used] fuel oil supplier that I can scan into my computer?</p> <p>1 Yes 0 No</p>					
NEXT	If FOBILLTOSCAN2=0: FOWHYNOT2 Else: FOSUPPNAME2				
Derived		Show Card		CARI	

FOWHYNOT2 (Changed from 2009)					
ASK	If FOBILLTOSCAN2=0				
<p>Please indicate why there is no bill to scan.</p> <p>1 Respondent only receives this bill electronically 2 Confidentiality/privacy concern 3 Respondent doesn't have this bill now 4 Other</p>					

NEXT	FOSUPPNAME2				
Derived		Show Card		CARI	

FOSUPPNAME2					
ASK	If FOPAY in(1,3) and NDIFFOCO>1				
<p>What is the name of your household's [If NDIFFOCO=2: other; If NDIFFOCO>2: second most used] fuel oil supplier?</p> <p>Open response</p>					
NEXT	If FOBILLTOSCAN2=1: FOSUPPSTREET2 Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT				
Derived		Show Card		CARI	

FOSUPPSTREET2					
ASK	If FOBILLTOSCAN2=1				
<p>RECORD the supplier's street address as it appears on the bill here.</p> <p>Open response</p>					
NEXT	FOSUPPCITY2				
Derived		Show Card		CARI	

FOSUPPCITY2					
ASK	If FOBILLTOSCAN2=1				
<p>RECORD the supplier's city as it appears on the bill here.</p> <p>Open response</p>					
NEXT	FOSUPPSTATE2				
Derived		Show Card		CARI	

FOSUPPSTATE2					
ASK	If FOBILLTOSCAN2=1				
<p>RECORD the supplier's state as it appears on the bill here.</p> <p>Open response</p>					

NEXT	FOSUPPZIP2				
Derived		Show Card		CARI	

FOSUPPZIP2					
ASK	If FOBILLTOSCAN2=1				
<p>RECORD the supplier's zip as it appears on the bill here.</p> <p>Open response</p>					
NEXT	FOSUPPAREACODE2				
Derived		Show Card		CARI	

FOSUPPAREACODE2					
ASK	If FOBILLTOSCAN2=1				
<p>RECORD the supplier's area code as it appears on the bill here.</p> <p>001 - 999</p>					
NEXT	FOSUPPTELNUMBER2				
Derived		Show Card		CARI	

FOSUPPTELNUMBER2					
ASK	If FOBILLTOSCAN2=1				
<p>RECORD the supplier's telephone number as it appears on the bill here.</p> <p>1000001 - 9999999</p>					
NEXT	If KERODEL=1: KEROBILLTOSCAN Else: KFUELOT				
Derived		Show Card		CARI	

KEROBILLTOSCAN					
ASK	If KERODEL=1				
<p>Do you have a recent bill from your household's [If NDIFKRCO>1: most-used] kerosene supplier that I can scan into my computer?</p> <p>1 Yes 0 No</p>					

NEXT	If KEROBILLTOSCAN=0: KEROWHYNOT Else: KEROSUPPNAME1				
Derived		Show Card		CARI	

KEROWHYNOT (Changed from 2009)					
ASK	If KEROBILLTOSCAN=0				
<p>Please indicate why there is no bill to scan.</p> <ul style="list-style-type: none"> 1 Respondent only receives this bill electronically 2 Confidentiality/privacy concern 3 Respondent doesn't have this bill now 4 Other 					
NEXT	KEROSUPPNAME1				
Derived		Show Card		CARI	

KEROSUPPNAME1					
ASK	If KERODEL=1				
<p>What is the name of your household's [if NDIFKRCO>1: most used] kerosene supplier?</p> <p>Open response</p>					
NEXT	If KEROBILLTOSCAN=1: KEROSUPPSTREET1 Else if NDIFKRCO>1: KEROBILLTOSCAN2 Else: KFUELOT				
Derived		Show Card		CARI	

KEROSUPPSTREET1					
ASK	If KEROBILLTOSCAN=1				
<p>RECORD the supplier's street address as it appears on the bill here.</p> <p>Open response</p>					
NEXT	KEROSUPPCITY1				
Derived		Show Card		CARI	

KEROSUPPCITY1					
ASK	If KEROBILLTOSCAN=1				
<p>RECORD the supplier's city as it appears on the bill here.</p> <p>Open response</p>					

NEXT	KEROSUPPSTATE1				
Derived		Show Card		CARI	

KEROSUPPSTATE1					
ASK	If KEROBILLTOSCAN=1				
<p>RECORD the supplier's state as it appears on the bill here.</p> <p>Open response</p>					
NEXT	KEROSUPPZIP1				
Derived		Show Card		CARI	

KEROSUPPZIP1					
ASK	If KEROBILLTOSCAN=1				
<p>RECORD the supplier's zip as it appears on the bill here.</p> <p>Open response</p>					
NEXT	KEROSUPPAREACODE1				
Derived		Show Card		CARI	

KEROSUPPAREACODE1					
ASK	If KEROBILLTOSCAN=1				
<p>RECORD the supplier's area code as it appears on the bill here.</p> <p>001 - 999</p>					
NEXT	KEROSUPPTELNUMBER1				
Derived		Show Card		CARI	

KEROSUPPTELNUMBER1					
ASK	If KEROBILLTOSCAN=1				
<p>RECORD the supplier's telephone number as it appears on the bill here.</p> <p>1000001 - 9999999</p>					

NEXT	If NDIFKRCO>1: KEROBILLTOSCAN2 Else: KFUELOT				
Derived		Show Card		CARI	

KEROBILLTOSCAN2					
ASK	If NDIFKRCO>1				
<p>Earlier you told me that [FILL: NDIFKRCO] different companies delivered kerosene to your home in the past 12 months. Do you have any recent bills from [If NDIFKRCO=2: your other; If NDIFKRCO>2: the second most-used] kerosene supplier that I can scan into my computer?</p> <p>1 Yes 0 No</p>					
NEXT	If KEROBILLTOSCAN2=0: KEROWHYNOT2 Else: KEROSUPPNAME2				
Derived		Show Card		CARI	

KEROWHYNOT2 (Changed from 2009)					
ASK	If KEROBILLTOSCAN2=0				
<p>Please indicate why there is no bill to scan.</p> <p>1 Respondent only receives this bill electronically 2 Confidentiality/privacy concern 3 Respondent doesn't have this bill now 4 Other</p>					
NEXT	KEROSUPPNAME2				
Derived		Show Card		CARI	

KEROSUPPNAME2					
ASK	If NDIFKRCO>1				
<p>What is the name of your household's [If NDIFKRCO=2: other; If NDIFKRCO>2: second most used] kerosene supplier?</p> <p>Open response</p>					
NEXT	If KEROBILLTOSCAN2=1: KEROSUPPSTREET1 Else: KFUELOT				
Derived		Show Card		CARI	

KEROSUPPSTREET2					
ASK	If KEROBILLTOSCAN2=1				
<p>RECORD the supplier's street address as it appears on the bill here.</p> <p>Open response</p>					
NEXT	KEROSUPPCITY2				
Derived		Show Card		CARI	

KEROSUPPCITY2					
ASK	If KEROBILLTOSCAN2=1				
<p>RECORD the supplier's city as it appears on the bill here.</p> <p>Open response</p>					
NEXT	KEROSUPPSTATE2				
Derived		Show Card		CARI	

KEROSUPPSTATE2					
ASK	If KEROBILLTOSCAN2=1				
<p>RECORD the supplier's state as it appears on the bill here.</p> <p>Open response</p>					
NEXT	KEROSUPPZIP2				
Derived		Show Card		CARI	

KEROSUPPZIP2					
ASK	If KEROBILLTOSCAN2=1				
<p>RECORD the supplier's zip as it appears on the bill here.</p> <p>Open response</p>					
NEXT	KEROSUPPAREACODE2				
Derived		Show Card		CARI	

KEROSUPPAREACODE2					
ASK	If KEROBILLTOSCAN2=1				
<p>RECORD the supplier's area code as it appears on the bill here.</p> <p>001 - 999</p>					
NEXT	KEROSUPPTELNUMBER2				
Derived		Show Card		CARI	

KEROSUPPTELNUMBER2					
ASK	If KEROBILLTOSCAN2=1				
<p>RECORD the supplier's telephone number as it appears on the bill here.</p> <p>1000001 - 9999999</p>					
NEXT	KFUELOT				
Derived		Show Card		CARI	

KFUELOT (Changed from 2009)					
ASK	If ELPAY in(1,3,4) or NGPAY in(1,3,4) or LPGDELV=1 or FOPAY in(1,3,4) or KERODEL=1				
<p>Do any of your household energy bills include costs for energy used for non-household purposes, such as farm buildings or machinery, a business or office, or another house or apartment?</p> <p>1 Yes 0 No</p>					
NEXT	If KFUELOT=1: FARM, TENANT, BUSINESS, OTHERUSE Else: SMARTMETER				
Derived		Show Card		CARI	

FARM, TENANT, BUSINESS, OTHERUSE					
ASK	If KFUELOT=1				
<p>Place show card 34 in front of the respondent.</p> <p>Please look at Card 34. For which of the purposes listed are costs of fuel included in your household fuel bills?</p> <p>Mark all that apply.</p> <p>Farm buildings or machinery (FARM) The house or apartment of another household (TENANT) A business or office (BUSINESS) Some use other than your own personal use (OTHERUSE)</p>					
NEXT	If OTHERUSE=1: OTHUSEPRPSFU Else: BILLEL, BILLUG, BILLPG, BILLFOIL, BILLKER				
Derived		Show Card	Yes	CARI	

OTHUSEPRPSFU (Changed from 2009)					
ASK	If OTHERUSE=1				
<p>Could you tell me what that other use is?</p> <p>Open response</p>					
NEXT	BILLEL, BILLUG, BILLPG, BILLFOIL, BILLKER				
Derived		Show Card		CARI	

BILLEL, BILLUG, BILLPG, BILLFOIL, BILLKER (Changed from 2009)					
ASK	If KFUELOT=1				
<p>Which of your household's energy bills include costs for energy used for non-household purposes? Is it electricity, natural gas from underground pipes, propane (bottled gas), fuel oil, or kerosene?</p> <p>Mark all that apply.</p> <p>Electricity (BILLEL) Natural gas from underground pipes (BILLUG) Propane (bottled gas) (BILLPG) Fuel oil (BILLFOIL) Kerosene (BILLKER)</p>					

NEXT	If BILLEL=1: ELNONHSHLD Else if BILLUG=1: NGNONHSHLD Else if BILLPG=1: LPGNONHSHLD Else if BILLFOIL=1: FONONHSHLD Else if BILLKER=1: KERONONHSHLD Else: SMARTMETER				
Derived		Show Card		CARI	

ELNONHSHLD (Changed from 2009)					
ASK	If BILLEL=1				
<p>What portion of the electricity bill is for non-household uses? Is it...</p> <p>0 Very little, 1 Some, 2 About half, 3 About three-quarters, or 4 Most of it?</p>					
NEXT	If BILLUG=1: NGNONHSHLD Else if BILLPG=1: LPGNONHSHLD Else if BILLFOIL=1: FONONHSHLD Else if BILLKER=1: KERONONHSHLD Else: SMARTMETER				
Derived		Show Card		CARI	

NGNONHSHLD (Changed from 2009)					
ASK	If BILLUG=1				
<p>What portion of the natural gas bill is for non-household uses? Is it...</p> <p>0 Very little, 1 Some, 2 About half, 3 About three-quarters, or 4 Most of it?</p>					
NEXT	If BILLPG=1: LPGNONHSHLD Else if BILLFOIL=1: FONONHSHLD Else if BILLKER=1: KERONONHSHLD Else: SMARTMETER				
Derived		Show Card		CARI	

LPGNONHSHLD (Changed from 2009)					
ASK	If BILLPG=1				
<p>What portion of the propane bill is for non-household uses? Is it...</p> <p>0 Very little, 1 Some, 2 About half, 3 About three-quarters, or 4 Most of it?</p>					
NEXT	If BILLFOIL=1: FONONHSHLD Else if BILLKER=1: KERONONHSHLD Else: SMARTMETER				
Derived		Show Card		CARI	

FONONHSHLD (Changed from 2009)					
ASK	If BILLFOIL=1				
<p>What portion of the fuel oil bill is for non-household uses? Is it...</p> <p>0 Very little, 1 Some, 2 About half, 3 About three-quarters, or 4 Most of it?</p>					
NEXT	If BILLKER=1: KERONONHSHLD Else: SMARTMETER				
Derived		Show Card		CARI	

KERONONHSHLD (Changed from 2009)					
ASK	If BILLKER=1				
<p>What portion of the kerosene bill is for non-household uses? Is it...</p> <p>0 Very little, 1 Some, 2 About half, 3 About three-quarters, or 4 Most of it?</p>					
NEXT	SMARTMETER				
Derived		Show Card		CARI	

SMARTMETER (New)					
ASK	All respondents				
<p>Does your home have a “smart meter,” which records electricity usage in short time intervals and automatically transmits it to your utility company?</p> <p>1 Yes 0 No</p>					
NEXT	If SMARTMETER=1: INTDATA Else if KOWNRENT in(2,3) or ELPAY in(2,3) or NGPAY in(2,3) or LPGPAY in(2,3) or FOPAY in(2,3): LLNAME Else: IVCOMMJFILTER				
Derived		Show Card		CARI	Yes

INTDATA (New)					
ASK	If SMARTMETER=1				
<p>Does your household have access to hourly or daily electricity usage data recorded by your smart meter?</p> <p>1 Yes 0 No</p>					
NEXT	If INTDATA=1: INTDATAACC Else if KOWNRENT in(2,3) or ELPAY in(2,3) or NGPAY in(2,3) or LPGPAY in(2,3) or FOPAY in(2,3): LLNAME Else: IVCOMMJFILTER				
Derived		Show Card		CARI	

INTDATAACC (New)					
ASK	If INTDATA=1				
<p>Have you or any member of your household ever accessed or viewed this electricity usage data?</p> <p>1 Yes 0 No</p>					
NEXT	If KOWNRENT in(2,3) or ELPAY in(2,3) or NGPAY in(2,3) or LPGPAY in(2,3) or FOPAY in(2,3): LLNAME Else: IVCOMMJFILTER				
Derived		Show Card		CARI	

LLNAME (Changed from 2009)					
ASK	If KOWNRENT in(2,3) or ELPAY in(2,3) or NGPAY in(2,3) or LPGPAY in(2,3) or FOPAY in(2,3)				
<p>We may need some additional information about the fuel used in this building. May I have the name of the person or company to whom you pay your rent or condo fee?</p> <p>RECORD the name of the landlord here. If the respondent pays this fee to a company enter the company name in this field.</p> <p>Open response</p>					
NEXT	LLNAME2				
Derived		Show Card		CARI	

LLNAME2 (Changed from 2009)					
ASK	If KOWNRENT in(2,3) or ELPAY in(2,3) or NGPAY in(2,3) or LPGPAY in(2,3) or FOPAY in(2,3)				
<p>RECORD the last name of the landlord here. If the respondent pays this fee to a company enter "company" in this field.</p> <p>Open response</p>					
NEXT	LLSTREET				
Derived		Show Card		CARI	

LLSTREET (Changed from 2009)					
ASK	If KOWNRENT in(2,3) or ELPAY in(2,3) or NGPAY in(2,3) or LPGPAY in(2,3) or FOPAY in(2,3)				
<p>What is their street address?</p> <p>RECORD the landlord's street address here.</p> <p>Open response</p>					
NEXT	LLCITY				
Derived		Show Card		CARI	

LLCITY (Changed from 2009)					
ASK	If KOWNRENT in(2,3) or ELPAY in(2,3) or NGPAY in(2,3) or LPGPAY in(2,3) or FOPAY in(2,3)				
<p>What is their city?</p> <p>RECORD the landlord's city here.</p> <p>Open response</p>					
NEXT	LLSTATE				
Derived		Show Card		CARI	

LLSTATE (Changed from 2009)					
ASK	If KOWNRENT in(2,3) or ELPAY in(2,3) or NGPAY in(2,3) or LPGPAY in(2,3) or FOPAY in(2,3)				
<p>...and what state are they located in?</p> <p>RECORD the landlord's state here.</p> <p>Open response</p>					
NEXT	LLZIP				
Derived		Show Card		CARI	

LLZIP (Changed from 2009)					
ASK	If KOWNRENT in(2,3) or ELPAY in(2,3) or NGPAY in(2,3) or LPGPAY in(2,3) or FOPAY in(2,3)				
<p>...and what is their Zip code?</p> <p>RECORD the landlord's Zip code here.</p> <p>Open response</p>					
NEXT	LLAREACODE				
Derived		Show Card		CARI	

LLAREACODE (Changed from 2009)					
ASK	If KOWNRENT in(2,3) or ELPAY in(2,3) or NGPAY in(2,3) or LPGPAY in(2,3) or FOPAY in(2,3)				
<p>What is your landlord's area code and telephone number?</p> <p>RECORD the landlord's telephone number, starting with the area code here.</p> <p>001 - 999</p>					
NEXT	LLTELNUMBER				
Derived		Show Card		CARI	

LLTELNUMBER (Changed from 2009)					
ASK	If KOWNRENT in(2,3) or ELPAY in(2,3) or NGPAY in(2,3) or LPGPAY in(2,3) or FOPAY in(2,3)				
<p>RECORD the landlord's local telephone number here.</p> <p>1000001 - 9999999</p>					
NEXT	If TYPEHUQ in(1,4,5): COMPLEXN Else: IVCOMMJFILTER				
Derived		Show Card		CARI	

COMPLEXN					
ASK	If (KOWNRENT in(2,3) or ELPAY in(2,3) or NGPAY in(2,3) or LPGPAY in(2,3) or FOPAY in(2,3)) and TYPEHUQ in(1,4,5)				
<p>Does the complex or development where you live have a formal name?</p> <p>1 Yes 0 No</p>					
NEXT	If COMPLEXN=1: CPLXNAME				
Derived		Show Card		CARI	

CPLXNAME					
ASK	If COMPLEXN=1				
<p>What is the name?</p> <p>Open response</p>					

NEXT	IVCOMMJFILTER				
Derived		Show Card		CARI	

IVCOMMJFILTER					
ASK	All respondents				
<p>Interviewer Task: If you have any comments that might suggest that the data collected in the fuel bills section should be analyzed by central office staff, enter 1. If you have no comments regarding the quality of data entered in this section, enter 2.</p> <p>1 I have comments regarding the quality of data in this section 2 I do not have comments</p>					
NEXT	If IVCOMMJFILTER=1: IVCOMMJ Else: Section K				
Derived		Show Card		CARI	

IVCOMMJ					
ASK	If IVCOMMJFILTER=1				
<p>Interviewer Task: Record any information here about this housing unit's fuel bills that might provide clarification to the respondent's answers.</p> <p>Open response</p>					
NEXT	Section K				
Derived		Show Card		CARI	

SECTION K: HOUSING UNIT CHARACTERISTICS

HHSEX (Changed from 2009)					
ASK	All respondents				
<p>Now I have a few questions about the people living in this home.</p> <p style="color: blue;">Please record the gender of the respondent.</p> <p style="margin-left: 40px;">1 Female 2 Male</p>					
NEXT	HHAGE				
Derived		Show Card		CARI	

HHAGE (Changed from 2009)					
ASK	All respondents				
<p>How old are you?</p> <p style="color: blue;">For ages over 95, enter 95.</p> <p style="margin-left: 40px;">16 - 95</p>					
NEXT	EMPLOYHH				
Derived		Show Card		CARI	

EMPLOYHH (Changed from 2009)					
ASK	All respondents				
<p>How would you describe your employment status? Would you say employed full-time, employed part-time, or not employed/retired?</p> <p style="margin-left: 40px;">1 Employed full-time 2 Employed part-time 0 Not employed/retired</p>					
NEXT	SPOUSE				
Derived		Show Card		CARI	

SPOUSE (Changed from 2009)					
ASK	All respondents				
<p>Are you living with a spouse or partner?</p> <p>1 Yes 0 No</p>					
NEXT	SDESCENT				
Derived		Show Card		CARI	

SDESCENT (Changed from 2009)					
ASK	All respondents				
<p>Are you Hispanic or Latino?</p> <p>1 Yes 0 No</p>					
NEXT	RACE_WHITE, RACE_BLACK, RACE_AIAN, RACE_ASIAN, RACE_NHPI, RACE_OTH, RACE_HISP				
Derived		Show Card		CARI	

RACE_WHITE, RACE_BLACK, RACE_AIAN, RACE_ASIAN, RACE_NHPI, RACE_OTH, RACE_HISP (Changed from 2009)					
ASK	All respondents				
<p>Place show card 35 in front of the respondent.</p> <p>Please look at Card 35. Which describes your race? You can select one or more categories.</p> <p>White (RACE_WHITE) Black or African-American (RACE_BLACK) American Indian or Alaska Native (RACE_AIAN) Asian (RACE_ASIAN) Native Hawaiian or Other Pacific Islander (RACE_NHPI) Other (if volunteered) (RACE_OTH) Hispanic (if volunteered) (RACE_HISP)</p>					
NEXT	EDUCATION				
Derived		Show Card	Yes	CARI	

EDUCATION (Changed from 2009)					
ASK	All respondents				
<p>Place show card 36 in front of the respondent.</p> <p>Please look at Card 36. What is the highest degree or level of school you have completed?</p> <ul style="list-style-type: none"> 0 No schooling completed 1 Kindergarten to grade 12 (No Diploma) 2 High school diploma or GED 3 Some college, no degree 4 Associate's degree (for example: AA, AS) 5 Bachelor's degree (for example: BA, BS) 6 Master's degree (for example: MA, MS, MBA) 7 Professional degree (for example: MD, JD) 8 Doctorate degree (for example: PhD, EdD) 					
NEXT	NHSLDMEM				
Derived		Show Card	Yes	CARI	

NHSLDMEM (Changed from 2009)					
ASK	All respondents				
<p>Including yourself, how many people usually live in this home? Do not include anyone who is just visiting, those away in the military, or children who are away at college.</p> <p>1 - 15</p>					
NEXT	If NHSLDMEM>1: AGEHHMEM2 Else: HBUSNESS				
Derived		Show Card		CARI	

AGEHHMEM2 (Changed from 2009)					
ASK	If NHSLDMEM>1				
<p>[If NHSLDMEM>2: Other than yourself what is the age of the oldest person in this household?] [If NHSLDMEM=2: What is the age of the other person in this household?]</p> <p>For ages over 95, enter 95.</p> <p>1 - 95</p>					
NEXT	If NHSLDMEM=3: AGEHHMEMY Else if NHSLDMEM>3: AGEHHMEM3 Else: HBUSNESS				
Derived		Show Card		CARI	

AGEHHMEM3					
ASK	If NHSLDMEM>3				
<p>Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person?</p> <p>For ages over 95, enter 95.</p> <p>1 - 95</p>					
NEXT	If NHSLDMEM=4: AGEHHMEMY Else if NHSLDMEM>4: AGEHHMEM4 Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM4					
ASK	If NHSLDMEM>4				
<p>Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person?</p> <p>For ages over 95, enter 95.</p> <p>1 - 95</p>					
NEXT	If NHSLDMEM=5: AGEHHMEMY Else if NHSLDMEM>5: AGEHHMEM5 Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM5					
ASK	If NHSLDMEM>5				
<p>Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person?</p> <p>For ages over 95, enter 95.</p> <p>1 - 95</p>					
NEXT	If NHSLDMEM=6: AGEHHMEMY Else if NHSLDMEM>6: AGEHHMEM6 Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM6					
ASK	If NHSLDMEM>6				
<p>Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person?</p> <p>For ages over 95, enter 95.</p> <p>1 - 95</p>					
NEXT	If NHSLDMEM=7: AGEHHMEMY Else if NHSLDMEM>7: AGEHHMEM7 Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM7					
ASK	If NHSLDMEM>7				
<p>Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person?</p> <p>For ages over 95, enter 95.</p> <p>1 - 95</p>					
NEXT	If NHSLDMEM=8: AGEHHMEMY Else if NHSLDMEM>8: AGEHHMEM8 Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM8					
ASK	If NHSLDMEM>8				
<p>Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person?</p> <p>For ages over 95, enter 95.</p> <p>1 - 95</p>					
NEXT	If NHSLDMEM=9: AGEHHMEMY Else if NHSLDMEM>9: AGEHHMEM9 Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM9					
ASK	If NHSLDMEM>9				
<p>Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person?</p> <p>For ages over 95, enter 95.</p> <p>1 - 95</p>					
NEXT	If NHSLDMEM=10 AGEHHMEMY Else if NHSLDMEM>10: AGEHHMEM10 Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM10					
ASK	If NHSLDMEM>10				
<p>Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person?</p> <p>For ages over 95, enter 95.</p> <p>1 - 95</p>					
NEXT	If NHSLDMEM=11: AGEHHMEMY Else if NHSLDMEM>11: AGEHHMEM11 Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM11					
ASK	If NHSLDMEM>11				
<p>Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person?</p> <p>For ages over 95, enter 95.</p> <p>1 - 95</p>					
NEXT	If NHSLDMEM=12: AGEHHMEMY Else if NHSLDMEM>12: AGEHHMEM12 Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM12					
ASK	If NHSLDMEM>12				
<p>Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person?</p> <p>For ages over 95, enter 95.</p> <p>1 - 95</p>					
NEXT	If NHSLDMEM=13: AGEHHMEMY Else if NHSLDMEM>13: AGEHHMEM13 Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM13					
ASK	If NHSLDMEM>13				
<p>Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person?</p> <p>For ages over 95, enter 95.</p> <p>1 - 95</p>					
NEXT	If NHSLDMEM=14: AGEHHMEMY Else if NHSLDMEM>14: AGEHHMEM14 Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM14					
ASK	If NHSLDMEM>14				
<p>Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person?</p> <p>For ages over 95, enter 95.</p> <p>1 - 95</p>					
NEXT	If NHSLDMEM=15: AGEHHMEMY Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHMEM15					
ASK					
Derived 1 - 95					
NEXT					
Derived	Yes	Show Card		CARI	

AGEHMEMY (Changed from 2009)					
ASK	If NHSLDMEM>2				
What is the age of the youngest person in this household? For ages over 95, enter 95. 1 - 95					
NEXT	HBUSINESS				
Derived		Show Card		CARI	

HBUSINESS					
ASK	All respondents				
Does anyone in this household operate a home-based business or service? 1 Yes 0 No					
NEXT	If HBUSINESS=1: OTHBUS Else: ATHOME				
Derived		Show Card		CARI	

OTHBUS					
ASK	If HBUSINESS=1				
What kind of business or service is this? Open response					
NEXT	ATHOME				
Derived		Show Card		CARI	

ATHOME (Changed from 2009)					
ASK	All respondents				
<p>In a typical week, how many weekdays is someone at home most or all of the day?</p> <p>0 - 5</p>					
NEXT	TELLWORK				
Derived		Show Card		CARI	

TELLWORK					
ASK	All respondents				
<p>Does anyone in this household telecommute or telework at anytime during the week?</p> <p>1 Yes 0 No</p>					
NEXT	OTHWORK				
Derived		Show Card		CARI	

OTHWORK (Changed from 2009)					
ASK	All respondents				
<p>Is there any other kind of activity occurring in your home that uses a lot more energy than would usually be used in a home?</p> <p>1 Yes 0 No</p>					
NEXT	If OTHWORK=1: OTHACT Else: WORKPAY				
Derived		Show Card		CARI	

OTHACT					
ASK	If OTHWORK=1				
<p>What is that activity?</p> <p>Open response</p>					

NEXT	WORKPAY				
Derived		Show Card		CARI	

WORKPAY (Changed from 2009)					
ASK	All respondents				
<p>In the last year, did you or any member of your household receive income from any of the following sources:</p> <p>Employment income from wages, salaries, commissions, bonuses, and tips from all jobs, as well as self-employment income from a business or farm?</p> <p>1 Yes 0 No</p>					
NEXT	RETIREPY				
Derived		Show Card		CARI	

RETIREPY					
ASK	All respondents				
<p>Retirement income from Social Security, Railroad Retirement, pensions or other retirement funds?</p> <p>1 Yes 0 No</p>					
NEXT	SSINCOME				
Derived		Show Card		CARI	

SSINCOME					
ASK	All respondents				
<p>Supplemental Security Income (SSI)?</p> <p>1 Yes 0 No</p>					
NEXT	CASHBEN				
Derived		Show Card		CARI	

CASHBEN					
ASK	All respondents				
<p>Welfare payments or cash assistance?</p> <p>1 Yes 0 No</p>					
NEXT	INVESTMT				
Derived		Show Card		CARI	

INVESTMT					
ASK	All respondents				
<p>Income from interest, dividends, rental properties, royalties, estates, or trusts?</p> <p>1 Yes 0 No</p>					
NEXT	RGLRPAY				
Derived		Show Card		CARI	

RGLRPAY					
ASK	All respondents				
<p>Any other regular sources of income such as Veterans' (VA) payments, survivor or disability pensions, unemployment compensation, child support, or alimony?</p> <p>1 Yes 0 No</p>					
NEXT	MONEYPY				
Derived		Show Card		CARI	

MONEYPY (Changed from 2009)					
ASK	All respondents				
<p>Place show card 37 in front of the respondent.</p> <p>Please look at Card 37. Including all of the income sources I just asked you about, which category best describes the total combined income of all household members for the last year, before taxes and deducti</p> <ul style="list-style-type: none"> 1 Less than \$10,000 2 \$10,000 to \$19,999 3 \$20,000 to \$29,999 4 \$30,000 to \$39,999 5 \$40,000 to \$49,999 6 \$50,000 to \$59,999 7 \$60,000 to \$69,999 8 \$70,000 to \$79,999 9 \$80,000 to \$99,999 10 \$100,000 to \$119,999 11 \$120,000 to \$139,999 12 \$140,000 or more 					
NEXT	IVCOMMKFILTER				
Derived		Show Card	Yes	CARI	

IVCOMMKFILTER					
ASK	All respondents				
<p>Interviewer Task: If you have any comments that might suggest that the data collected in the household characteristics section should be analyzed by central office staff, enter 1. If you have no comments regarding the quality of data entered in this section, enter 2.</p> <ul style="list-style-type: none"> 1 I have comments regarding the quality of data in this section 2 I do not have comments 					
NEXT	If IVCOMMKFILTER=1: IVCOMMK Else: Section L				
Derived		Show Card		CARI	

IVCOMMK					
ASK	If IVCOMMKFILTER=1				
<p>Interviewer Task: Record any information here about the household characteristics of this housing unit that might provide clarification to the respondent's answers.</p> <p>Open response</p>					

NEXT	Section L				
Derived		Show Card		CARI	

SECTION L: ENERGY INSECURITY and ASSISTANCE (LIHEAP)

SCALEB (Changed from 2009)					
ASK	All respondents				
<p>The last questions I have are about challenges your household may have had paying energy bills or maintaining heating and cooling in your home.</p> <p>In the last year, how many months did your household reduce or forego expenses for basic household necessities, such as medicine or food, in order to pay an energy bill? Was it...</p> <ul style="list-style-type: none"> 1 Almost every month 2 Some months 3 1 or 2 months 0 Never 					
NEXT	SCALEG				
Derived		Show Card		CARI	

SCALEG (Changed from 2009)					
ASK	All respondents				
<p>In the last year, how many months did your household keep your home at a temperature that you felt was unsafe or unhealthy? Was it...</p> <ul style="list-style-type: none"> 1 Almost every month 2 Some months 3 1 or 2 months 0 Never 					
NEXT	SCALEE				
Derived		Show Card		CARI	

SCALEE (Changed from 2009)					
ASK	All respondents				
<p>In the last year, how many months did your household receive a disconnection notice, shut off notice, or nondelivery notice for an energy bill? Was it...</p> <ul style="list-style-type: none"> 1 Almost every month 2 Some months 3 1 or 2 months 0 Never 					

NEXT	If SCALEE in(1,2,3): PAYHELP Else: NOHEATBROKE, NOHEATEL, NOHEATNG, NOHEATBULK				
Derived		Show Card		CARI	

PAYHELP (New)					
ASK	If SCALEE in(1,2,3)				
<p>When you received that notice, did your household apply for and receive home energy assistance to help pay your energy bill?</p> <p>1 Yes 0 No</p>					
NEXT	NOHEATBROKE, NOHEATEL, NOHEATNG, NOHEATBULK				
Derived		Show Card		CARI	

NOHEATBROKE, NOHEATEL, NOHEATNG, NOHEATBULK (New)					
ASK	All respondents				
<p>Place show card 38 in front of the respondent.</p> <p>Please look at Card 38. In the last year, was there ever a time your household was unable to use your main source of heat because any of these events happened?</p> <p>Mark all that apply.</p> <p>Your heating equipment was broken and you couldn't afford to pay for the repair or replacement (NOHEATBROKE) You couldn't pay for electricity and it was disconnected (NOHEATEL) You couldn't pay for natural gas and it was disconnected (NOHEATNG) You ran out of fuel oil, propane, kerosene, or wood because you couldn't afford a delivery (NOHEATBULK) None of these happened</p>					
NEXT	If NOHEATBROKE=1 or NOHEATEL=1 or NOHEATNG=1 or NOHEATBULK=1: NOHEATDAYS Else: COLDMA				
Derived		Show Card	Yes	CARI	

NOHEATDAYS (New)					
ASK	If NOHEATBROKE=1 OR NOHEATEL=1 OR NOHEATNG=1 OR NOHEATBULK=1				
<p>About how many days was your household without heat?</p> <p>1 - 366</p>					

NEXT	NOHEATHELP				
Derived		Show Card		CARI	

NOHEATHELP (New)					
ASK	If NOHEATBROKE=1 OR NOHEATEL=1 OR NOHEATNG=1 OR NOHEATBULK=1				
<p>When that happened, did your household apply for and receive home energy assistance to help restore your heating?</p> <p>1 Yes 0 No</p>					
NEXT	COLDMA				
Derived		Show Card		CARI	

COLDMA (Changed from 2009)					
ASK	All respondents				
<p>In the last year, did anyone in your household need medical attention because your home was too cold?</p> <p>1 Yes 0 No</p>					
NEXT	NOACBROKE, NOACEL				
Derived		Show Card		CARI	

NOACBROKE, NOACEL (New)					
ASK	All respondents				
<p>Place show card 39 in front of the respondent.</p> <p>Please look at Card 39. In the last year, was there ever a time your household was unable to use your air conditioner or other cooling equipment because any of these events happened?</p> <p>Mark all that apply.</p> <p>Your air conditioning equipment or other cooling equipment was broken and you couldn't afford to pay for the repair or replacement (NOACBROKE) You couldn't pay for electricity and it was disconnected (NOACEL) None of these happened</p>					
NEXT	If NOACBROKE=1 or NOACEL=1: NOACDAYS; Else HOTMA				
Derived		Show Card	Yes	CARI	

NOACDAYS (New)					
ASK	If NOACBROKE=1 or NOACEL=1				
<p>About how many days was your household without its air conditioner or other cooling equipment?</p> <p>1 - 366</p>					
NEXT	NOACHELP				
Derived		Show Card		CARI	

NOACHELP (New)					
ASK	If NOACBROKE=1 or NOACEL=1				
<p>When that happened, did your household apply for and receive home energy assistance to help restore your cooling?</p> <p>1 Yes 0 No</p>					
NEXT	HOTMA				
Derived		Show Card		CARI	

HOTMA (Changed from 2009)					
ASK	All respondents				
<p>In the last year, did anyone in your household need medical attention because your home was too hot?</p> <p>1 Yes 0 No</p>					
NEXT	If ELPAY in(1,3) or NGPAY in(1,3) or LPGPAY in(1,3) or FOPAY in(1,3) or KERODEL=1: SIGNFORM Else: LANGUAGE				
Derived		Show Card		CARI	

SIGNFORM (Changed from 2009)					
ASK	If ELPAY in(1,3,4) or NGPAY in(1,3,4) or LPGPAY in(1,3,4) or FOPAY in(1,3,4) or KERODEL=1				
<p>This is the final question I have. In addition to the answers you've provided in this survey, we would like to find out how much energy your household actually used in the past year. Would you please sign this form that gives permission to your energy suppliers to provide this information to the U.S. Department of Energy?</p> <p>Interviewer Task: Give the authorization form to the respondent and record whether the respondent signed the form or not.</p> <p>1 Authorization form signed 0 Authorization form not signed</p>					
NEXT	LANGUAGE				
Derived		Show Card		CARI	Yes

LANGUAGE (New)					
ASK	All respondents				
<p>Interviewer Task: Record the language in which this interview was conducted.</p> <p>1 English 2 Spanish 3 Combination of English and Spanish 4 Other</p>					
NEXT	If LANGUAGE=4: LANGUAGEFU Else: IVCOMMLFILTER				
Derived		Show Card		CARI	

LANGUAGEFU (New)					
ASK	If LANGUAGE=4				
<p>Interviewer Task: Please explain how this interview was conducted.</p> <p>Open response</p>					
NEXT	IVCOMMLFILTER				
Derived		Show Card		CARI	

IVCOMMLFILTER					
ASK	All respondents				
<p>Interviewer Task: If you have any comments that might suggest that the data collected in the energy assistance section should be analyzed by central office staff, enter 1. If you have no comments regarding the quality of data entered in this section, enter 2.</p> <p>1 I have comments regarding the quality of data in this section 2 I do not have comments</p>					
NEXT	If IVCOMMLFILTER=1: IVCOMML Else: End survey				
Derived		Show Card		CARI	

IVCOMML					
ASK	If IVCOMMLFILTER=1				
<p>Interviewer Task: Record any information here about energy assistance received by this housing unit that might provide clarification to the respondent's answers.</p> <p>Open response</p>					
NEXT	End survey				
Derived		Show Card		CARI	