

**2015 RECS Household Questionnaire
July 13, 2015**

SECTION A: STRUCTURAL CHARACTERISTICS

CARI (New)		CARI
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 style="margin-left: 40px;">1 Gives consent to record interview 0 Does not give consent to record interview</p>		
NEXT	CONFIRM	
Derived		Show Card
		CARI Yes

CONFIRM		CONFIRM
ASK	All respondents	
<p style="color: blue;">Interviewer Task: If you haven't already, confirm you are at the correct address. Record your answer below.</p> <p style="margin-left: 40px;">1 Correct address as listed 2 Mostly correct address, needs updating 0 Not at correct address</p>		
NEXT	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.	
Derived		Show Card
		CARI Yes

CSTREET		ConfirmStreet
ASK	If CONFIRM=2	
<p style="color: blue;">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 style="color: blue;">Record the street address here.</p> <p style="margin-left: 40px;">Open response</p>		
NEXT	CCITY	
Derived		Show Card
		CARI Yes

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

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

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

INTHUQ		INTTypeOfHome			
ASK	All respondents				
<p>Interviewer Task: Record your observation of the housing unit type.</p> <ul style="list-style-type: none"> 2 Single-family detached house (a house detached from any other house) 3 Single-family attached house (a house attached to one or more houses) 4 Apartment building with 2 - 4 units 5 Apartment building 5 or more units 1 Mobile home 					
NEXT	If INTHUQ in(4,5): APTFLOOR If INTHUQ=3: SFAEND Else: PRIMRES				
Derived		Show Card		CARI	

APTFLOOR (New)		APTFLOOR			
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)		APTINOUT			
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)		SFAEND			
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		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		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		ConfirmHUQ			
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		HHolderDescription			
ASK	If CNFRMHUQ=0				
<p>Which of the following do you believe best describes this home? Is it a...</p> <p>2 Single-family detached house, 3 Single-family attached house, 4 an Apartment building with 2 - 4 units, 5 an Apartment building 5 or more units, or 1 a Mobile home?</p>					
NEXT	REVHUQ				
Derived		Show Card		CARI	

REVHUQ		ReviseHUQ			
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>					

- 1 Use householder's definition
- 2 Use RECS definition

NEXT	KOWNRENT					
Derived	<table border="1"> <tr> <td></td> <td>Show Card</td> <td></td> <td>CARI</td> <td></td> </tr> </table>		Show Card		CARI	
	Show Card		CARI			

TYPEHUQ		<i>TypeOfHome</i>			
ASK					
Derived					
NEXT					
Derived	Yes	Show Card		CARI	

KOWNRENT		<i>OwnOrRent</i>			
ASK	All respondents				
Is this [If TYPEHUQ=1,2,3: home] [If TYPEHUQ=4,5: apartment]...					
<ol 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		<i>CondoOrCoop</i>			
ASK	All respondents				
Is this home part of a condominium or cooperative?					
<ol style="list-style-type: none"> 1 Yes 0 No 					
NEXT	If KOWNCOND=1: CONDCOOP Else: YEARMAD				
Derived		Show Card		CARI	

CONDCOOP		<i>WhichCondoOrCoop</i>			
ASK	If KOWNCOND=1				
Which is it, a condominium or cooperative?					
<ol style="list-style-type: none"> 1 Condominium 2 Cooperative 					

NEXT	YEARMADE				
Derived		Show Card		CARI	

YEARMADE (Changed from 2009)				YearBuilt	
ASK	All respondents				
<p>In what year was this structure built? Your best estimate is fine.</p> <p>1600 - 2015</p>					
NEXT	If YEARMADE in(-8,-9): YEARMADERANGE Else: OCCUPYY				
Derived		Show Card		CARI	Yes

YEARMADERANGE (Changed from 2009)				YearBuiltEst	
ASK	If YEARMADE in(-8,-9)				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. 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> <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 2015 					
NEXT	OCCUPYY				
Derived	Yes	Show Card	Yes	CARI	Yes

OCCUPYY (Changed from 2009)				YearMovedIn	
ASK	All respondents				
<p>In what year did your household move in? Your best estimate is fine.</p> <p>1600 - 2015</p>					
NEXT	If OCCUPYY in(-8,-9): OCCUPYYRANGE Else if OCCUPYY in(2014,2015): OCCUPYM Else: VACANT				
Derived		Show Card		CARI	

OCCUPYYRANGE (Changed from 2009)		<i>YearMovedInEst</i>	
ASK	If OCCUPYY in(-8,-9)		
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. 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 2015 			
NEXT	VACANT		
Derived	Yes	Show Card	Yes
		CARI	

OCCUPYM (Changed from 2009)		<i>MonthMovedIn</i>	
ASK	If OCCUPYY in(2014,2015)		
<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)		<i>VACANT</i>	
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, CRAWL, CONCRETE				
Derived		Show Card		CARI	

CONVERSION (Changed from 2009)				OriginallyApt	
ASK	If TYPEHUQ=4				
Was your building originally designed and built as an apartment building or was it converted into an apartment building?					
<ul style="list-style-type: none"> 1 Built as an apartment building 2 Converted into an apartment building 					
NEXT	NUMAPTS				
Derived		Show Card		CARI	

LOOKLIKE				MoreLikeApt	
ASK					
Deleted					
NEXT					
Derived		Show Card		CARI	

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

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

TYPEHUQ4		<i>AddtnsToMobileHome</i>			
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, CRAWL, CONCRETE		<i>Basement, CrawlSpace, ConcreteSlab</i>			
ASK	If TYPEHUQ in(2,3)				
<p>Now think about the foundation of your home. Is any part of your home over a...</p> <p>Mark all that apply.</p> <p>Basement, (CELLAR) Crawl space, or (CRAWL) Concrete slab? (CONCRETE)</p>					
NEXT	If CELLAR=1: BASEFIN Else: ATTIC				
Derived		Show Card		CARI	

BASEFIN (Changed from 2009)		<i>FinishedBsmnt</i>			
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		<i>HaveAnAttic</i>			
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)				AtticFinished	
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				StudioApt	
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				FloorsinApt	
ASK	If STUDIO=0				
<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: NAPTFLRS Else: BEDROOMS				
Derived	Yes	Show Card		CARI	

NAPTFLRS				LevelInApt	
ASK	If ONEFLRAPT=0				
<p>How many levels does your apartment unit have?</p>					

2 - 9					
NEXT	BEDROOMS				
Derived	Yes	Show Card		CARI	

STORIES				<i>NumOfStories</i>	
ASK	If TYPEHUQ in(2,3)				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. 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				<i>NumOfStoriesFU</i>	
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)				<i>NumBedRooms</i>	
ASK	If STUDIO ne 1				
<p>How many bedrooms do you have in your home? [If BASEFIN in(1,2) or ATTICFIN in(1,2): Include bedrooms in finished attics or finished basements.]</p> <p>0 - 20</p>					
NEXT	NCOMBATH				
Derived	Yes	Show Card		CARI	

NCOMBATH (Changed from 2009)				<i>NumFullBaths</i>	
ASK	All respondents				

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 BASEFIN in(1,2) or ATTICFIN in(1,2): Include bathrooms in finished attics or finished basements.]					
0 - 9					
NEXT	NHAFBATH				
Derived		Show Card		CARI	

NHAFBATH (Changed from 2009)						NumHalfBaths
ASK	All respondents					
A half-bathroom is one that has either a toilet or a bathtub or a shower. How many half bathrooms do you have? [If BASEFIN in(1,2) or ATTICFIN in(1,2): Include bathrooms in finished attics or finished basements.]						
0 - 9						
NEXT	OTHRROOMS					
Derived		Show Card		CARI		

OTHRROOMS						NumOtherRooms
ASK	If STUDIO ne 1					
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?						
1 - 20						
NEXT	If TYPEHUQ in(1,2,3): PRKGPLC1 If TYPEHUQ in(4,5): WALLTYPE					
Derived	Yes	Show Card		CARI		

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

SIZEOFGARAGE						SizeOfGarage
ASK	If PRKGPLC1=1					

What is the size of that attached garage? Is it a...					
<ul style="list-style-type: none"> 1 One-car garage, 2 Two-car garage, or 3 Three-or-more-car garage? 					
NEXT	GARGLOC				
Derived		Show Card		CARI	

GARGLOC <i>LocationOfGarage</i>					
ASK	If PRKGPLC1=1				
Is the garage attached to or part of the [If CELLAR=1: basement,] first floor, or some other floor of the home?					
<ul style="list-style-type: none"> 1 Part of basement 2 Part of first floor 3 Some other floor 					
NEXT	WALLTYPE				
Derived		Show Card		CARI	

PRKGPLC2 <i>DetachedGarage</i>					
ASK	If PRKGPLC1=0				
Does your home have a detached garage or covered carport?					
<ul style="list-style-type: none"> 1 Yes 0 No 					
NEXT	If PRKGPLC2=1: SIZEOFDETACH Else: WALLTYPE				
Derived		Show Card		CARI	

SIZEOFDETACH <i>DetachedGarageSize</i>					
ASK	If PRKGPLC2=1				
Which does your home have? Is it a...					
<ul style="list-style-type: none"> 1 One-car garage, 2 Two-car garage, or 3 Three-or-more-car garage, or 4 Carport? 					
NEXT	WALLTYPE				
Derived		Show Card		CARI	

WALLTYPE (Changed from 2009)		<i>OutsideWall</i>			
ASK	All respondents				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. What is the major outside wall material for this housing unit?</p> <ul style="list-style-type: none"> 1 Brick 2 Wood 3 Siding 4 Stucco 5 Shingle (composition) 6 Stone 7 Concrete or concrete block 9 Other 					
NEXT	If WALLTYPE=9: WALLTYPEFU Else if TYPEHUQ in(1,2,3,4): ROOFTYPE Else: HIGHCEIL				
Derived		Show Card	Yes	CARI	

WALLTYPEFU		<i>OutsideWallFU</i>			
ASK	If WALLTYPE=9				
<p>Could you tell me what that other material is?</p> <p>Open response</p>					
NEXT	If TYPEHUQ in(1,2,3,4): ROOFTYPE Else: HIGHCEIL				
Derived		Show Card		CARI	

ROOFTYPE (Changed from 2009)		<i>RoofType</i>			
ASK	If TYPEHUQ in(1,2,3,4)				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. 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		<i>RoofTypeFU</i>			
ASK	If ROOFTYPE=9				
<p>Could you tell me what that other material is?</p> <p>Open response</p>					
NEXT	If TYPEHUQ=1: SLDDRS Else: HIGHCEIL				
Derived		Show Card		CARI	

HIGHCEIL		<i>AnyHighCeilings</i>			
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> <p>1 Yes 0 No</p>					
NEXT	If HIGHCEIL ne 0: CATHCEIL Else: SLDDRS				
Derived		Show Card		CARI	

CATHCEIL		<i>AnyCathedralCeilings</i>			
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)		<i>SlidingGlassDoors</i>			
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		<i>NumSlidingDoors</i>			
ASK	If SLDDRS=1				
How many sliding glass doors does your home have? Count each pair of sliding glass doors as one door.					
0 - 10					
NEXT	WINDOWS				
Derived		Show Card		CARI	

WINDOWS (Changed from 2009)		<i>NumOfWindows</i>			
ASK	All respondents				
Place show card X in front of the respondent.					
Please look at Card X. About how many windows does your home have?					
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					
NEXT	TYPEGLASS				
Derived		Show Card	Yes	CARI	

TYPEGLASS		<i>TypeOfWindowGlass</i>			
ASK	All respondents				
Place show card X in front of the respondent.					
Please look at Card X. Which picture best describes the type of glass in most of the windows in your home? Do not consider storm windows.					
1 Single-pane glass					
2 Double-pane glass					
3 Triple-pane glass					
NEXT	WINFRAME				
Derived		Show Card	Yes	CARI	

WINFRAME (New)		WINFRAME			
ASK	All respondents				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. What frame material is used for most of the windows in your home?</p> <ul style="list-style-type: none"> 1 Wood 2 Metal (aluminum) 3 Vinyl 4 Composite 5 Fiberglass 9 Some other material 					
NEXT	NEWGLASS				
Derived		Show Card	Yes	CARI	Yes

NEWGLASS		ReplaceGlass			
ASK	All respondents				
<p>How many of the windows in your home have been replaced since your household moved in? Is it...</p> <ul style="list-style-type: none"> 1 All of the windows, 2 Some of the windows, or 3 None of the windows? 					
NEXT	ADQINSUL				
Derived		Show Card		CARI	

ADQINSUL		HowWellInsulated			
ASK	All respondents				
<p>Regarding the insulation in your home, overall, would you say that your home is...</p> <ul style="list-style-type: none"> 1 Well insulated, 2 Adequately insulated, or 3 Poorly insulated? 4 No insulation (if volunteered) 					
NEXT	DRAFTY				
Derived		Show Card		CARI	

DRAFTY (Changed from 2009)		HowDrafty			
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> <ul style="list-style-type: none"> 1 All the time, 2 Most of the time, 					

3 Some of the time, or 4 Never?					
NEXT	INSTLINS				
Derived		Show Card		CARI	

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

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

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

UGASHERE (New) <i>UGASHERE</i>					
ASK	All respondents				
Is natural gas from underground pipes available in this neighborhood?					

1 Yes 0 No				
NEXT	Section B			
Derived		Show Card		CARI

IVCOMMAFILTER		<i>IVCOMMAFILTER</i>		
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		<i>IVerCommentsA</i>		
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		<i>StoveOven</i>
ASK	All respondents	
<p style="color: blue;">Place show card 6 in front of the respondent.</p> <p>Please look at Card 6. 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 - 10</p>		
NEXT	If STOVEN>0: STOVENFUEL Else: STOVE	
Derived		Show Card Yes CARI

STOVENFUEL (Changed from 2009)		<i>ComboStoveOven, ComboStoveOvenA</i>
ASK	If STOVEN>0	
<p>What fuel does your [most-used] stove or range use? Is it...</p> <p style="margin-left: 20px;">5 Electricity, 1 Natural gas from underground pipes, 2 Propane (bottled gas), 13 Dual fuel, or 21 Some other fuel?</p>		
NEXT	If STOVENFUEL=3: DUALOVEN Else if STOVENFUEL=21: STOVENFUELFU Else: OVENUSE	
Derived		Show Card CARI

DUALOVEN (New)		<i>DualOvenFuel</i>
ASK	If STOVENFUEL=3	
<p>What fuel does the oven part of your dual fuel stove or range use?</p> <p style="margin-left: 20px;">5 Electricity, 1 Natural gas from underground pipes, 2 Propane (bottled gas), 21 Some other fuel?</p>		
NEXT	DUALCOOKT	
Derived		Show Card CARI

DUALCOOKT (New)		<i>DualCooktopFuel</i>
ASK	If STOVENFUEL=3	

What fuel does the cooktop part of your dual fuel stove or range use?					
<ul style="list-style-type: none"> 5 Electricity, 1 Natural gas from underground pipes, 2 Propane (bottled gas), 21 Some other fuel? 					
NEXT	OVENUSE				
Derived		Show Card		CARI	

STOVENFUELFU <i>ComboStoveOvenFU</i>					
ASK	If STOVENFUEL=21				
<p>Could you tell me what that other type of fuel is?</p> <p>Open response</p>					
NEXT	OVENUSE				
Derived		Show Card		CARI	

OVENUSE (Changed from 2009) <i>FreqOvenUse, FreqOvenUseA</i>					
ASK	If STOVEN>0				
<p>In a typical week, about how many times is the oven part of your [most-used] stove/range used? If it's not used, you can answer "0".</p> <p>Open response</p>					
NEXT	COOKTUSE				
Derived		Show Card	Yes	CARI	

COOKTUSE (New) <i>FreqCooktopUse, FreqCooktopUseA</i>					
ASK	If STOVEN>0				
<p>In a typical week, about how many times is the cooktop part of your [most-used] stove/range used? If it's not used, you can answer "0".</p> <p>Open response</p>					
NEXT	OVENCLN				
Derived		Show Card	Yes	CARI	

OVENCLN <i>SelfCleanOven, SelfCleanOvenA</i>					
ASK	If STOVEN>0				
Does the oven part of your [most-used] stove or range have a self-cleaning feature?					

1 Yes 0 No					
NEXT	STOVE				
Derived		Show Card		CARI	

STOVE (Changed from 2009)						Stove
ASK	All respondents					
<p>Place show card 6 in front of the respondent.</p> <p>Please look at Card 6. 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 - 10</p>						
NEXT	If STOVE>0: STOVEFUEL Else: OVEN					
Derived		Show Card	Yes	CARI		

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

STOVEFUELFU						APPComboStoveFuelFU
ASK	If STOVEFUEL=21					
<p>Could you tell me what that other type of fuel is?</p> <p>Open response</p>						
NEXT	SEPCOOKTUSE					
Derived		Show Card		CARI		

SEPCOOKTUSE (New)						FreqSeparateCooktopUse, FreqSeparateCooktopUseA
ASK	If STOVE>0					

In a typical week, about how many times is your [most-used] separate cooktop used? If it's not used, you can answer "0"					
Open response					
NEXT	OVEN				
Derived		Show Card	Yes	CARI	

OVEN <i>MoreThanOneOven</i>					
ASK	All respondents				
Place show card 6 in front of the respondent.					
Please look at Card 6. The third picture shows a separate wall oven. How many separate wall ovens do you have in your home?					
0 - 10					
NEXT	If OVEN>0: OVENFUEL Else: MICRO				
Derived		Show Card	Yes	CARI	

OVENFUEL <i>OvenFuel, OvenFuelA</i>					
ASK	If OVEN>0				
What fuel does your [most-used] separate wall oven use? Is it....					
<ul style="list-style-type: none"> 5 Electricity, 1 Natural gas from underground pipes, 2 Propane (bottled gas), or 21 Some other fuel? 					
NEXT	If OVENFUEL=21: OVENFUELFU Else: SEPOVENUSE				
Derived		Show Card		CARI	

OVENFUELFU <i>OvenFuelFU</i>					
ASK	If OVENFUEL=21				
Could you tell me what that other type of fuel is?					
Open response					
NEXT	SEPOVENUSE				
Derived		Show Card		CARI	

SEPOVENUSE (New)		<i>FreqSeparateOvenUse, FreqSeparateOvenUseA</i>			
ASK	If OVEN>0				
<p>In a typical week, about how many times is your [most-used] separate wall oven used? If it's not used, you can answer "0"</p> <p>Open response</p>					
NEXT	SEPOVENCLN				
Derived		Show Card	Yes	CARI	

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

MICRO		<i>MicroOven</i>			
ASK	All respondents				
<p>How many microwaves do you have?</p> <p>0 - 10</p>					
NEXT	If MICRO>0: AMTMICRO Else: OUTGRILL				
Derived		Show Card		CARI	

AMTMICRO (Changed from 2009)		<i>MicroOvenUse</i>			
ASK	If MICRO=1				
<p>In a typical week, about how many times is your microwave used? If it's not used, you can answer "0"</p> <p>Open response</p>					
NEXT	DEFROST				
Derived		Show Card	Yes	CARI	

DEFROST		<i>MicroDefrost</i>			
ASK	If MICRO=1				

Does your household use the microwave for defrosting?					
1 Yes 0 No					
NEXT	If STOVEN>0 or STOVE>1: RANGEHOOD Else: OUTGRILL				
Derived		Show Card		CARI	

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

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

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

OUTGRILLFUEL (Changed from 2009) <i>OutDrGrilFuel</i>					
ASK	If OUTGRILL=1				
What fuel does your outdoor grill use? Is it...					

<p>1 Natural gas from underground pipes, 2 Propane (bottled gas), 23 Charcoal, or 21 Some other fuel?</p>					
NEXT	If OUTGRILLFUEL=21: OUTGRILLFUELFU Else: TOPGRILL				
Derived		Show Card		CARI	

OUTGRILLFUELFU <i>OutDrGrilFuelFU</i>					
ASK	If OUTGRILLFUEL=21				
<p>Could you tell me what that other type of fuel is?</p> <p>Open response</p>					
NEXT	TOPGRILL				
Derived		Show Card		CARI	

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

STGRILAFU		APPGrillFuelFU			
ASK	If STGRILA=21				
<p>Could you tell me what that other type of fuel is?</p> <p>Open response</p>					
NEXT	NUMMEAL				
Derived		Show Card		CARI	

NUMMEAL		APPNumMealsCooked			
ASK	All respondents				
<p>Place show card 7 in front of the respondent.</p> <p>Please look at Card 7. Which of the categories shown best describes how often hot meals are usually cooked in your home?</p> <ol 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				
Derived		Show Card	Yes	CARI	

TOAST, TOASTOVN, COFFEE, CROCKPOT, FOODPROC, RICECOOK, MIXER, BREAD, BLENDER, WAFFLE, APPOTHER (New)		TOAST, TOASTOVN, COFFEE, CROCKPOT, FOODPROC, RICECOOK, MIXER, BREAD, BLENDER, WAFFLE, APPOTHER			
ASK	All respondents				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. 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)					
NEXT	If APPOTHER=1: SMALLAPPFU Else: NUMFRIG				
Derived		Show Card	Yes	CARI	

SMALLAPPFU (New)			<i>SmallAppliancesFU</i>		
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)			<i>NumOfFrig</i>		
ASK	All respondents				
<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 - 10</p>					
NEXT	If NUMFRIG>0: SIZERFR1 Else: SEPFREEZ				
Derived		Show Card		CARI	

SIZERFR1 (Changed from 2009)			<i>SizeOfFrig1</i>		
ASK	If NUMFRIG>0				
<p>Place show card 10 in front of the respondent.</p> <p>Please look at Card 10. 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 SIZERFR1=1: REFRIGT1 Else: TYPERFR1				
Derived		Show Card	Yes	CARI	

TYPFR1 (Changed from 2009)		TypeOfFrig1			
ASK	If SIZRFRI1>1				
<p>Place show card 9 in front of the respondent.</p> <p>Please look at Card 9. Which of the pictures 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	REFRIGT1				
Derived		Show Card	Yes	CARI	

REFRIGT1 (Changed from 2009)		DfrostFrig1			
ASK	If NUMFRIG>0				
<p>What type of defrosting does this refrigerator have? Is it...</p> <ul style="list-style-type: none"> 1 Manual 2 Automatic 3 No working freezer section (if volunteered) 					
NEXT	ICE				
Derived		Show Card		CARI	

ICE (Changed from 2009)		IceThruDoor1			
ASK	If NUMFRIG>0				
<p>Does this refrigerator have through-the-door ice service?</p> <ul style="list-style-type: none"> 1 Yes 0 No 					
NEXT	AGERFRI1				
Derived		Show Card		CARI	

AGERFRI1		AgeOfFrig1			
ASK	If NUMFRIG>0				
<p>Place show card 11 in front of the respondent.</p> <p>Please look at Card 11. 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	If NUMFRIG>1: SIZERFR2 Else: SEPFREEZ				
Derived		Show Card	Yes	CARI	

SIZRFR2 (Changed from 2009)				SizeOfFrig2	
ASK	If NUMFRIG>1				
<p>Place show card 10 in front of the respondent.</p> <p>Please look at Card 10. How would you describe the size of your second refrigerator?</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 SIZRFR2=1: REFRIGT2 Else: TYPFRFR2				
Derived		Show Card	Yes	CARI	

TYPFRFR2 (Changed from 2009)				TypeOfFrig2	
ASK	If SIZRFR2>1				
<p>Place show card 9 in front of the respondent.</p> <p>Please look at Card 9. Which of the pictures best describes this refrigerator?</p> <ol 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	REFRIGT2				
Derived		Show Card	Yes	CARI	

REFRIGT2 (Changed from 2009)				DfrostFrig2	
ASK	If NUMFRIG>1				
<p>What type of defrosting does this refrigerator have? Is it...</p> <ol style="list-style-type: none"> 1 Manual 					

2 Automatic 3 No working freezer section (if volunteered)					
NEXT	MONRFRI2				
Derived		Show Card		CARI	

MONRFRI2 (Changed from 2009)				<i>MnthsFrig2On</i>	
ASK	If NUMFRIG>1				
In the last year, how many months was this refrigerator plugged in and turned on? 0-12					
NEXT	AGERFRI2				
Derived		Show Card		CARI	

AGERFRI2				<i>AgeOfFrig2</i>	
ASK	If NUMFRIG>1				
<p>Place show card 11 in front of the respondent.</p> <p>Please look at Card 11. 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 41 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)				<i>LocationOfFrig2</i>	
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		<i>LocationOfFrig2FU</i>			
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)		<i>SizeOfFrig3</i>			
ASK	If NUMFRIG>2				
<p>Place show card 10 in front of the respondent.</p> <p>Please look at Card 10. How would you describe the size of your third refrigerator?</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 SIZRFRI3=1: REFRIGT3 Else: TYPFRFR3				
Derived		Show Card	Yes	CARI	

TYPFRFR3 (Changed from 2009)		<i>TypeOfFrig3</i>			
ASK	If SIZRFRI3>1				
<p>Place show card 9 in front of the respondent.</p> <p>Please look at Card 9. Which of the pictures best describes this refrigerator?</p> <ol 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)	<i>DfrostFrig3</i>
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ASK	If NUMFRIG>2
<p>What type of defrosting does this refrigerator have? Is it...</p> <ol style="list-style-type: none"> 1 Manual 2 Automatic 3 No working freezer section (if volunteered) 	

NEXT	MONRFRI3				
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Derived		Show Card		CARI	
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MONRFRI3 (Changed from 2009)	<i>MnthsFrig3On</i>
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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				
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Derived		Show Card		CARI	
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AGERFRI3	<i>AgeOfFrig3</i>
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ASK	If NUMFRIG>2
<p>Place show card 11 in front of the respondent.</p> <p>Please look at Card 11. About how old is this refrigerator? Your best estimate is fine.</p> <ol 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 15 to 19 years old 5 20 years or older 6 As old as the home (if volunteered) 	

NEXT	SEPFREEZ				
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Derived		Show Card	Yes	CARI	
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SEPFREEZ	<i>UseSepFreezer</i>
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ASK	All respondents
<p>Does your household use a separate freezer that is not part of a refrigerator?</p>	

1 Yes 0 No					
NEXT	If SEPFREEZ=1: NUMFREEZ Else: DISHWASH				
Derived		Show Card		CARI	

NUMFREEZ <i>NumSepFreezer</i>					
ASK	If SEPFREEZ=1				
How many separate freezers are used in your home? 0 - 10					
NEXT	UPRTRFRZR				
Derived		Show Card		CARI	

UPRTRFRZR <i>TypeSepFreezer</i>					
ASK	If SEPFREEZ=1				
<p>Place show card 14 in front of the respondent.</p> <p>Please look at Card 14. Now I would like to ask some questions about the separate freezer that is used the most. What model freezer is this? Is it...</p> <p>1 An upright or 2 A chest?</p>					
NEXT	SIZFREEZ				
Derived		Show Card	Yes	CARI	

SIZFREEZ <i>SizeSepFreezer</i>					
ASK	If SEPFREEZ=1				
<p>Place show card 10 in front of the respondent.</p> <p>Please look at Card 10. How would you describe the size of this freezer?</p> <p>1 Small (17.5 cubic feet or less) 2 Medium (17.6 to 22.5 cubic feet) 3 Large (22.6 to 29.5 cubic feet) 4 Very large (bigger than 29.5 cubic feet)</p>					
NEXT	FREEZER				
Derived		Show Card	Yes	CARI	

FREEZER		<i>DfrstFreezer</i>			
ASK	If SEPFREEZ=1				
<p>What type of defrosting does this freezer have? Is it...</p> <p>1 Manual 2 Automatic</p>					
NEXT	AGEFRZR				
Derived		Show Card		CARI	

AGEFRZR		<i>AgeOfFreezer</i>			
ASK	If SEPFREEZ=1				
<p>Place show card 11 in front of the respondent.</p> <p>Please look at Card 11. 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		<i>TypeSepFreezer2</i>			
ASK	If NUMFREEZ>1				
<p>Now I would like to ask you the same questions about the second most used freezer. What model freezer is this? Is it...</p> <p>1 An upright or 2 A chest?</p>					
NEXT	SIZFREEZ2				
Derived		Show Card		CARI	

SIZFREEZ2		<i>SizeSepFreezer2</i>			
ASK	If NUMFREEZ>1				
<p>Place show card 10 in front of the respondent.</p> <p>Please look at Card 10. How would you describe the size of this freezer?</p>					

<ol style="list-style-type: none"> 1 Small (17.5 cubic feet or less) 2 Medium (17.6 to 22.5 cubic feet) 3 Large (22.6 to 29.5 cubic feet) 4 Very large (bigger than 29.5 cubic feet) 					
NEXT	FREEZER2				
Derived		Show Card	Yes	CARI	

FREEZER2						<i>DfrstFreezer2</i>
ASK	If NUMFREEZ>1					
<p>What type of defrosting does this freezer have? Is it...</p> <ol style="list-style-type: none"> 1 Manual 2 Automatic 						
NEXT	AGEFRZR2					
Derived		Show Card		CARI		

AGEFRZR2						<i>AgeOfFreezer2</i>
ASK	If NUMFREEZ>1					
<p>Place show card 11 in front of the respondent.</p> <p>Please look at Card 11. About how old is this freezer?</p> <ol 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)						<i>UseDishWasher</i>
ASK	All respondents					
<p>Does your household have a dishwasher?</p> <ol style="list-style-type: none"> 1 Yes 0 No 						
NEXT	If DISHWASH=1: DWASHUSE Else: IVCOMMBFILTER					
Derived		Show Card		CARI		

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

AGEDW		<i>AgeOfDishwash</i>			
ASK	If DISHWASH=1				
<p>Place show card 11 in front of the respondent.</p> <p>Please look at Card 11. About how old is your dishwasher? 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	DWCYCLE				
Derived		Show Card	Yes	CARI	

DWCYCLE (New)		<i>DishwashCycle</i>			
ASK	If DISHWASH=1				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. 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		<i>IVCOMMBFILTER</i>			
ASK	All respondents				

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.

- 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		<i>IVerCommentsB</i>		
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)		<i>ClothesWasher, ClothesWasherA</i>	
ASK	All respondents		
<p>Does your household have a clothes washer? [Do not include community clothes washers that are located in the basement or laundry room of your apartment building.]</p> <p style="margin-left: 20px;">1 Yes 0 No</p>			
NEXT	If CWASHER=1: TOPFRONT Else: DRYER		
Derived		Show Card	CARI

TOPFRONT		<i>TopOrFrontLoading</i>	
ASK	If CWASHER=1		
<p>Is your washing machine one that you load from the top or one that you load from the front?</p> <p style="margin-left: 20px;">1 Top loading 2 Front loading</p>			
NEXT	WASHLOAD		
Derived		Show Card	CARI

WASHLOAD (Changed from 2009)		<i>NumLoadsWashed</i>	
ASK	If CWASHER=1		
<p>In a typical week, about how many times is your clothes washer used? If it's not used, you can answer "0"</p> <p style="margin-left: 20px;">Open response</p>			
NEXT	WASHTEMP		
Derived		Show Card	Yes
CARI	Yes		

WASHTEMP		<i>WashWaterTemp</i>	
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 style="margin-left: 20px;">1 Hot 2 Warm 3 Cold</p>			

NEXT	RNSETEMP				
Derived		Show Card		CARI	

RNSETEMP		<i>RinseWaterTemp</i>			
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		<i>AgeofClothesWasher</i>			
ASK	If CWASHER=1				
<p>Place show card 11 in front of the respondent.</p> <p>Please look at Card 11. 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)		<i>ClothesDryer, ClothesDryerA</i>			
ASK	All respondents				
<p>Does your household have a clothes dryer? [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					<i>DryerFuel</i>
ASK	If DRYER=1				
<p>What fuel does your clothes dryer use? Is it...</p> <ol style="list-style-type: none"> 1 Electricity, 2 Natural gas from underground pipes, or 3 Propane (bottled gas)? 					
NEXT	DRYRUSE				
Derived		Show Card		CARI	

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

AGECDRYER					<i>AgeofClothesDryer</i>
ASK	If DRYER=1				
<p>Place show card 11 in front of the respondent.</p> <p>Please look at Card 11. About how old is your clothes dryer? Your best estimate is fine.</p> <ol 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	TVCOLOR				
Derived		Show Card	Yes	CARI	

TVCOLOR					<i>ColorTVs</i>
ASK	All respondents				
How many televisions are used in your home?					

0-15				
NEXT	If TVCOLOR>0: TVSIZE1 Else: DESKTOP			
Derived		Show Card		CARI

TVSIZE1 (Changed from 2009)			<i>SizeOfTV, SizeOfTVA</i>	
ASK	If TVCOLOR>0			
<p>What is the size of your [most-used] television? Is it...</p> <ul style="list-style-type: none"> 1 27 inches or less 2 28 to 39 inches 3 40 to 59 inches 4 60 inches or more 				
NEXT	TVTYPE1			
Derived		Show Card		CARI

TVTYPE1 (Changed from 2009)			<i>TelevisionType, TelevisionTypeA</i>	
ASK	If TVCOLOR>0			
<p>Place show card 19 in front of the respondent.</p> <p>Please look at Card 19. What type of display does your [most-used] television have?</p> <ul style="list-style-type: none"> 1 Standard Tube 2 Flat Screen LCD 3 Flat Screen Plasma 4 Projection 5 Flat Screen LED 				
NEXT	TVONWD1			
Derived		Show Card	Yes	CARI

TVONWD1 (Changed from 2009)			<i>TimeTVOnWeekdays</i>	
ASK	If TVCOLOR>0			
<p>Place show card 21 in front of the respondent.</p> <p>Please look at Card 21. 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)		<i>TimeTVOnWeekends</i>			
ASK	If TVCOLOR>0				
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.					
<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)		<i>SizeOfTVB</i>			
ASK	If TVCOLOR>1				
What is the size of your second most used television? Is it...					
<ul style="list-style-type: none"> 1 27 inches or less 2 28 to 39 inches 3 40 to 59 inches 4 60 inches or more 					
NEXT	TVTYPE2				
Derived		Show Card		CARI	

TVTYPE2		<i>TelevisionTypeB</i>			
ASK	If TVCOLOR>1				
<p>Place show card 19 in front of the respondent.</p> <p>Please look at Card 19. What type of display does the second most used television have?</p> <ul style="list-style-type: none"> 1 Standard Tube 2 Flat Screen LCD 3 Flat Screen Plasma 4 Projection 5 Flat Screen LED 					
NEXT	TVONWD2				
Derived		Show Card	Yes	CARI	

TVONWD2 (Changed from 2009)		TimeTVOnWeekdaysB			
ASK	If TVCOLOR>1				
<p>Place show card 21 in front of the respondent.</p> <p>Please look at Card 21. 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> <ol 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)		TimeTVOnWeekendsB			
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> <ol 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)		SizeOfTVD			
ASK	If TVCOLOR>2				
<p>What is the size of your third most used television? Is it...</p> <ol style="list-style-type: none"> 1 27 inches or less 2 28 to 39 inches 3 40 to 59 inches 4 60 inches or more 					
NEXT	TVTYPE3				
Derived		Show Card		CARI	

TVTYPE3		TelevisionTypeD			
ASK	If TVCOLOR>2				

Place show card 19 in front of the respondent.

Please look at Card 19. What type of display does the third most used television have?

- 1 Standard Tube
- 2 Flat Screen LCD
- 3 Flat Screen Plasma
- 4 Projection
- 5 Flat Screen LED

NEXT | TVONWD3

Derived

Show Card

Yes

CARI

TVONWD3 (Changed from 2009)

TimeTVOnWeekdaysC

ASK | If TVCOLOR>2

Place show card 21 in front of the respondent.

Please look at Card 21. 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.

- 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)

TimeTVOnWeekendsC

ASK | If TVCOLOR>2

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.

- 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)

CABLESAT

ASK | If TVCOLOR>0

Place show card XX in front of the respondent.

Please look at Card XX. How many of each of the following are used in your home?					
Cable or satellite box without DVR					
0-10					
NEXT	COMBODVR				
Derived		Show Card	Yes	CARI	Yes

COMBODVR (New)						COMBODVR
ASK	If TVCOLOR>0					
Cable or satellite box with DVR						
0-10						
NEXT	SEPDVR					
Derived		Show Card	Yes	CARI	Yes	

SEPDVR (New)						SEPDVR
ASK	If TVCOLOR>0					
Separate DVR (for example, TIVO)						
0-10						
NEXT	PLAYSTA					
Derived		Show Card	Yes	CARI	Yes	

PLAYSTA (New)						PLAYSTA
ASK	If TVCOLOR>0					
Video game console						
0-10						
NEXT	DVD					
Derived		Show Card	Yes	CARI	Yes	

DVD (New)						DVD
ASK	If TVCOLOR>0					
DVD or Blu-ray player						
0-10						

NEXT	VCR					
Derived		Show Card	Yes	CARI	Yes	

VCR (New)						VCR
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ASK	If TVCOLOR>0					
VCR						
0-10						

NEXT	INTSTREAM					
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Derived		Show Card	Yes	CARI	Yes	
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INTSTREAM (New)						INTSTREAM
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ASK	If TVCOLOR>0					
Internet streaming device (for example: Apple TV, Google Chromecast, Slingbox, or Roku)						
0-10						

NEXT	TVAUDIOSYS					
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Derived		Show Card	Yes	CARI	Yes	
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TVAUDIOSYS (New)						TVAUDIOSYS
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ASK	If TVCOLOR>0					
Home theater or audio system						
0-10						

NEXT	If PLAYSTA1=1: VGUSAGE Else: DESKTOP					
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Derived		Show Card	Yes	CARI	Yes	
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VGUSAGE (New)						VideoGameUsage
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ASK	If PLAYSTA=1					
<p>Place show card 21 in front of the respondent.</p> <p>Please look at Card 21. How many hours a day are spent playing video games?</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	DESKTOP				
Derived		Show Card	Yes	CARI	

DESKTOP (New)		<i>NumOfPCs</i>			
ASK	All respondents				
<p>Place show card XX in front of the respondent.</p> <p>Please look at Card XX. 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	Yes	CARI	

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

NUMTABLET (New)		<i>NumOfTablets</i>			
ASK	All respondents				
<p>Tablet computers or e-readers (for example: iPad or Kindle)</p> <p>0-15</p>					
NEXT	ELPERIPH				
Derived		Show Card	Yes	CARI	

ELPERIPH (Changed from 2009)		<i>PCPrinter</i>			
ASK	All respondents				
Printers, scanners, fax machines, or copiers					
0-15					
NEXT	NUMSMPHONE				
Derived		Show Card	Yes	CARI	

NUMSMPHONE (New)		<i>NumOfSmartphones</i>			
ASK	All respondents				
"Smart" phones (for example, iPhone or Android)					
0-15					
NEXT	CELLPHONE				
Derived		Show Card	Yes	CARI	

CELLPHONE (New)		<i>NumOfCellphones</i>			
ASK	All respondents				
Other cellular phones					
0-15					
NEXT	If NUMLAPTOP+NUMTABLET+NUMPC>0: PCTYPE1 Else if NUMSMPHONE>0: INTERNET Else: AQUARIUM, WELLPUMP, SWAMPCOL, DIPSTICK, SECURITY, SPRINKLER, MEDICALDEV				
Derived		Show Card	Yes	CARI	

PCTYPE1 (Changed from 2009)		<i>PC1Type, PC1TypeA</i>			
ASK	If NUMLAPTOP+NUMTABLET+NUMPC>0				
Thinking about your [most-used] computer, is it a desktop, a laptop, or a tablet?					
1 Desktop model 2 Laptop 3 Tablet					
NEXT	TIMEON1				
Derived		Show Card		CARI	

TIMEON1 (Changed from 2009)		<i>UsePC, MostUsePC</i>			
ASK	If NUMLAPTOP+NUMTABLET+NUMPC>0				
<p>Place show card 21 in front of the respondent.</p> <p>Please look at Card 21. Thinking about your [most used] computer, how many hours each day is it used?</p> <ol 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 NUMPC+NUMLAPTOP+NUMTABLET>1: PCTYPE2 Else: INTERNET				
Derived		Show Card	Yes	CARI	

PCTYPE2 (Changed from 2009)		<i>PC1TypeB</i>			
ASK	If NUMLAPTOP+NUMTABLET+NUMPC>1				
<p>Thinking about your second most used computer, is it a desktop, a laptop, or a tablet?</p> <ol style="list-style-type: none"> 1 Desktop model 2 Laptop 3 Tablet 					
NEXT	TIMEON2				
Derived		Show Card		CARI	

TIMEON2 (Changed from 2009)		<i>MostUsePC2</i>			
ASK	If NUMLAPTOP+NUMTABLET+NUMPC>1				
<p>Place show card 21 in front of the respondent.</p> <p>Please look at Card 21. Thinking about your second most used, how many hours each day is it used?</p> <ol 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 NUMLAPTOP+NUMTABLET+NUMPC>2: PCTYPE3 Else: INTERNET				
Derived		Show Card	Yes	CARI	

PCTYPE3 (Changed from 2009)		<i>PC1TypeC</i>			
ASK	If NUMLAPTOP+NUMTABLET+NUMPC>2				

Thinking about your third most used computer, is it a desktop, a laptop, or a tablet?					
<ul style="list-style-type: none"> 1 Desktop model 2 Laptop 3 Tablet 					
NEXT	TIMEON3				
Derived		Show Card		CARI	

TIMEON3 (Changed from 2009)						<i>MostUsePC3</i>
ASK	If NUMLAPTOP+NUMTABLET+NUMPC>2					
<p>Place show card 21 in front of the respondent.</p> <p>Please look at Card 21. Thinking about your 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		
NEXT						
Derived		Show Card		CARI		
NEXT						
Derived		Show Card		CARI		

INTERNET (Changed from 2009)						<i>InternetAccess</i>
ASK	If NUMPC+NUMLAPTOP+NUMTABLET+NUMSMPHONE>0					
<p>Please look at Card X. In your home, do you or any member of your household access the Internet?</p> <ul style="list-style-type: none"> 1 Yes 0 No 						
NEXT	If INTERNET=1: INDIALUP, INDSL, INCABLE, INFIOS, INMOBILE, INSATEL Else: AQUARIUM, WELLPUMP, SWAMPCOL, DIPSTICK, SECURITY, SPRINKLER, MEDICALDEV					
Derived		Show Card	Yes	CARI		

INWIRELESS (Changed from 2009)						<i>HaveWireRouter</i>
ASK	If INTERNET=1					
Is a wireless router used in your home for accessing the Internet?						

1 Yes 0 No				
NEXT	AQUARIUM, WELLPUMP, SWAMPCOL, DIPSTICK, SECURITY, SPRINKLER, MEDICALDEV			
Derived		Show Card		CARI

AQUARIUM, WELLPUMP, SWAMPCOL, DIPSTICK, SECURITY, SPRINKLER, MEDICALDEV (New) (Changed from 2009)		<i>Aquarium, WellWaterPump, SwampCooler, EngineHeaters, SecuritySystem, SprinklerSystem, MedicalDevice</i>		
ASK	All respondents			
<p>Are any of the following used in your home?</p> <p>Read responses and mark all that apply.</p> <p>Large heated aquariums of 20 gallons or more (AQUARIUM) [If TYPEHUQ in(1,2,3): Electric pump for well water] (WELLPUMP) [If SCFLAG=1 (only respondents in certain states): Evaporative or swamp cooler] (SWAMPCOL) [If DSFLAG=1 (only respondents in certain states): Automobile block heaters, dip-stick engine heaters, or battery blankets] (DIPSTICK) Home security system (SECURITY) [If TYPEHUQ in(1,2,3): Outdoor sprinkler system] (SPRINKLER) Medical devices, such as ventilators, nebulizers, or CPAP machines (MEDICALDEV)</p>				
NEXT	VACUUM, FLASH, TOOTH, RAZOR, DRILL			
Derived		Show Card		CARI

VACUUM, FLASH, TOOTH, RAZOR, DRILL (New)		<i>VACUUM, FLASH, TOOTH, RAZOR, DRILL</i>		
ASK	All respondents			
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. Which of these types of electric rechargeable devices are typically plugged in in your home?</p> <p>Mark all that apply.</p> <p>Handheld vacuum (VACUUM) Flashlight (FLASH) Electric toothbrush (TOOTH) Electric razor (RAZOR) Drill or other power tool (DRILL)</p>				
NEXT	IVCOMMCFILTER			
Derived		Show Card	Yes	CARI

IVCOMMCFILTER		<i>IVCOMMCFILTER</i>		
ASK	All respondents			
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.

- 1 I have comments regarding the quality of data in this section
- 2 I do not have comments

NEXT	If IVCOMMCFILTER=1: IVCOMM Else: Section D				
Derived		Show Card		CARI	

IVCOMM				<i>IVerCommentsC</i>	
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		<i>HeatingHome</i>
ASK	All respondents	
<p>Is your home heated during the winter?</p> <p style="margin-left: 20px;">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		<i>DontHeatHome</i>
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: 20px;">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)		<i>APPMainHeatingEquipB</i>
ASK	If DNTHEAT=1	
<p style="color: blue;">Place show card X 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 X. What type of heating equipment do you have?</p> <p style="margin-left: 20px;">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 Heating stove burning wood 10 Portable electric heaters 11 Portable kerosene heaters 9 Fireplace 21 Some other equipment</p>		

NEXT	If EQUIPNOHEAT=21: EQUIPNOHEATFU Else: FUELNOHEAT				
Derived		Show Card	Yes	CARI	

EQUIPNOHEATFU		<i>D2a1FollowUp</i>			
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		<i>ReAskMainHeatFuel</i>			
ASK	If HEATHOME=0				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. 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		<i>D2a2FollowUp</i>			
ASK	If FUELNOHEAT=21				
<p>Could you tell me what that other fuel is?</p> <p>Open response</p>					
NEXT	MOISTURE				
Derived		Show Card		CARI	

APTHEAT (New)		<i>APTHEAT</i>			
ASK	If TYPEHUQ in (4,5) and HEATHOME=1				

Is the main heating equipment for your apartment inside your home or is it in another part of this building?					
<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)						MainHeatingEquip					
ASK	If HEATHOME=1										
<p>Place show card X in front of the respondent.</p> <p>Let's start with the main source of heating in your home. Please look at Card X. 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 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 Else: FUELHEAT										
Derived		Show Card	Yes	CARI	Yes						

EQUIPMFU						D3FollowUp					
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)						NUMEQUIPM					
ASK	If EQUIPM in(3,4)										
<p>Do you have more than one [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)			NUMPORTELHEAT1		
ASK	If EQUIPM=10				
How many portable electric heaters does your household use?					
1-99					
NEXT	MAINTHT				
Derived		Show Card		CARI	

FUELHEAT (Changed from 2009)			MainHeatingFuel		
ASK	If HEATHOME=1 and EQUIPM ne 4, 5, 7, 10, 11				
Place show card X in front of the respondent.					
Please look at Card X. 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?					
<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			D4FollowUp		
ASK	If FUELHEAT=21				
Could you tell me what that other fuel is?					
Open response					
NEXT	MAINTHT				
Derived		Show Card		CARI	

HPTYPE1 (New)		HPTYPE1			
ASK	If EQUIPM=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	HPBACKUP				
Derived		Show Card		CARI	Yes

HPBACKUP (New)		HPBACKUP			
ASK	If EQUIPM=4				
<p>During the winter, how often does your heat pump switch to back-up or auxiliary heat? Is it...</p> <p>0 Never 1 A few times 2 Some of the time 3 About all winter</p>					
NEXT	MAINTHT				
Derived		Show Card		CARI	

MAINTHT (Changed from 2009)		HeatMaint			
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> <p>1 Yes 0 No</p>					
NEXT	EQUIPAGE				
Derived		Show Card		CARI	

EQUIPAGE (Changed from 2009)		AgeMainHeatEquip			
ASK	If HEATHOME=1				
<p>Place show card XX in front of the respondent.</p> <p>Please look at Card XX. Approximately how old is your household's main heating 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</p>					

5 20 years old 6 As old as the home (if volunteered)					
NEXT	THERMAIN				
Derived		Show Card	Yes	CARI	

THERMAIN (Changed from 2009) <i>HaveThermostat</i>					
ASK	If HEATHOME=1				
<p>Place show card XX in front of the respondent.</p> <p>Please look at Card XX. Do you have a thermostat that controls your main heating equipment?</p> <p>1 Yes 0 No</p>					
NEXT	If THERMAIN=1: OTHTHERM Else: EQUIPMUSE				
Derived		Show Card	Yes	CARI	

OTHTHERM <i>Have2orMoreTherms</i>					
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 <i>NumberOfOtherTherms</i>					
ASK	If OTHTHERM=1				
<p>How many total thermostats do you have in your home?</p> <p>Open response</p>					
NEXT	PROTHERM				
Derived		Show Card		CARI	

PROTHERM <i>IsThermostatSetBack</i>					
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>					

1 Yes 0 No					
NEXT	EQUIPMUSE				
Derived		Show Card		CARI	

EQUIPMUSE (New)				EQUIPMUSE	
ASK	If HEATHOME=1				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. 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)				EQUIPMUSEFU	
ASK	If EQUIPMUSE=9				
<p>Could you describe how your household uses your main heating heating equipment?</p> <p>Open response</p>					
NEXT					
Derived		Show Card		CARI	

TEMPHOME (Changed from 2009)				TempSetWhenHomeMult	
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>Open response</p>					

NEXT	TEMPGONE				
Derived		Show Card		CARI	Yes

TEMPGONE (Changed from 2009)	<i>TempSetWhenOut</i>
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ASK	If HEATHOME=1
<p>What is the typical temperature when no one is inside your home during the day?</p> <p>Open response</p>	

NEXT	TEMPNITE				
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Derived		Show Card		CARI	
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TEMPNITE (Changed from 2009)	<i>TempSetWhenAsleep</i>
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ASK	If HEATHOME=1
<p>What is the typical temperature inside your home at night?</p> <p>Open response</p>	

NEXT	HEATOTH				
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Derived		Show Card		CARI	
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HEATOTH	<i>HeatOthers</i>
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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				
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Derived		Show Card		CARI	
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EQUIPAUX	<i>TypeSecHeatEquip1-7</i>
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ASK	If HEATHOME=1
<p>Place show card XX in front of the respondent.</p> <p>You told me that [EQUIPM] is the main source of heat in your home. Please look at Card XX. Does your household use any other types of heating equipment listed on Card XX?</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)</p>	

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

If No other equipment: EQUIPAUX=0
 Else EQUIPAUX=1

NEXT If EQUIPAUX=1: see skip logic for individual secondary fuel variables
 If EQUIPAUX=0 and CELLAR=1: BASEHEAT;
 If EQUIPAUX=0 and CELLAR ne 1 and ATTIC=1: ATTCHEAT;
 If EQUIPAUX=0 and CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1=1: GARGHEAT;
 If EQUIPAUX=0 and CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1 ne 1: MOISTURE

Derived	Yes	Show Card	Yes	CARI	Yes
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REVERSE	REVERSE
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ASK	
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Secondary heat is Central Furnace

NEXT	FURNFUEL
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Derived		Show Card		CARI	
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WARMAIR	WARMAIR
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ASK	
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Secondary heat is Heat Pump

NEXT If CELLAR=1: BASEHEAT;
 If CELLAR ne 1 and ATTIC=1: ATTCHEAT;
 If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1=1: GARGHEAT;
 If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1 ne 1: EQMAMT

Derived		Show Card		CARI	
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STEAMR	STEAMR
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ASK	
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Secondary heat is Steam/Hot Water system

NEXT	RADFUEL
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Derived		Show Card		CARI	
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PERMELEC		PERMELEC			
ASK					
Secondary heat is Built in Electric Units					
NEXT	If CELLAR=1: BASEHEAT; If CELLAR ne 1 and ATTIC=1: ATTCHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1=1: GARGHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1 ne 1: EQMAMT				
Derived		Show Card		CARI	

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

ROOMHEAT		ROOMHEAT			
ASK					
Secondary heat is Built in room heaters					
NEXT	RHMHTFUEL				
Derived		Show Card		CARI	

WOODKILN		WOODKILN			
ASK					
Secondary heat is Heating Stove					
NEXT	If CELLAR=1: BASEHEAT; If CELLAR ne 1 and ATTIC=1: ATTCHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1=1: GARGHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1 ne 1: EQMAMT				
Derived		Show Card		CARI	

CARRYEL		CARRYEL			
ASK					
Secondary heat is Portable electric heaters					

NEXT	NUMPORTELHEAT2				
Derived		Show Card		CARI	

CARRYKER		CARRYKER			
ASK					
Secondary heat is portable kerosene heaters					
NEXT	If CELLAR=1: BASEHEAT; If CELLAR ne 1 and ATTIC=1: ATTICHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1=1: GARGHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1 ne 1: EQMAMT				
Derived		Show Card		CARI	

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

RANGE		RANGE			
ASK					
Secondary heat is stove/oven/range					
NEXT	RNGFUEL				
Derived		Show Card		CARI	

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

AUXEQPFU		D7FollowUp			
ASK	If DIFEQUIP=1				

Could you tell me what that other heating equipment is?				
Open response				
NEXT	If CELLAR=1: BASEHEAT; If CELLAR ne 1 and ATTIC=1: ATTICHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1=1: GARGHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1 ne 1: EQMAMT			
Derived		Show Card		CARI

FURNFUEL <i>APPWrmAirFurnFuel, WrmAirFurnFuel</i>				
ASK	If WARMAIR=1			
What fuel does the central furnace use? Is it... 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 CELLAR=1: BASEHEAT; If CELLAR ne 1 and ATTIC=1: ATTICHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1=1: GARGHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1 ne 1: EQMAMT			
Derived		Show Card		CARI

FURNFUELFU <i>D5a1FollowUp</i>				
ASK	If FURNFUEL=21			
Could you tell me what that other fuel is? Open response				
NEXT				
Derived		Show Card		CARI

RADFUEL <i>APPHotH2OFuel, HotH2OFuel</i>				
ASK	If STEAMR=1			
What fuel does the steam/hot water system use? Is it... 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 CELLAR=1: BASEHEAT; If CELLAR ne 1 and ATTIC=1: ATTCHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1=1: GARGHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1 ne 1: EQMAMT				
Derived		Show Card		CARI	

RADFUELFU						<i>APPHotH2OFollowUp</i>
ASK	If RADFUEL=21					
<p>Could you tell me what that other fuel is?</p> <p>Open response</p>						
NEXT						
Derived		Show Card		CARI		

PIPEFUEL						<i>APPPipelessHtrFuel, PipelessHtrFuel</i>
ASK	If PIPELESS=1					
<p>What fuel does the pipeless furnace use? Is it...</p> <p>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</p>						
NEXT	If CELLAR=1: BASEHEAT; If CELLAR ne 1 and ATTIC=1: ATTCHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1=1: GARGHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1 ne 1: EQMAMT					
Derived		Show Card		CARI		

PIPEFUELFU						<i>D5a2FollowUp</i>
ASK	If PIPEFUEL=21					
<p>Could you tell me what that other fuel is?</p> <p>Open response</p>						

NEXT				
Derived		Show Card		CARI

RMHTFUEL		<i>RoomHeaterFuel</i>		
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	If CELLAR=1: BASEHEAT; If CELLAR ne 1 and ATTIC=1: ATTICHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1=1: GARGHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1 ne 1: EQMAMT			
Derived		Show Card		CARI

FPFUEL		<i>APPFirePlaceFuel, FirePlaceFuel</i>		
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 FPFUEL=1: NGFPFLUE If FPFUEL ne 1 and CELLAR=1: BASEHEAT; If FPFUEL ne 1 and CELLAR ne 1 and ATTIC=1: ATTICHEAT; If FPFUEL ne 1 and CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1=1: GARGHEAT; If FPFUEL ne 1 and CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1 ne 1: EQMAMT			
Derived		Show Card		CARI

FPFUELFU		<i>D5a5FollowUp</i>		
ASK	If FPFUEL=21			
<p>Could you tell me what that other fuel is?</p> <p>Open response</p>				
NEXT				
Derived		Show Card		CARI

NGFPFLUE (Changed from 2009)		<i>GasFirePlaceFlue</i>	
ASK	If FPFUEL=1		
Does this fireplace have a flue to the outside or is it entirely self-contained?			
<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)		<i>FreqNatGasFirePIUsed</i>	
ASK	If FPFUEL=1		
During the winter how frequently does your household use the gas fireplace? Is it...			
<ul style="list-style-type: none"> 1 Most days 2 About once a week 3 Fewer than 4 times each month 			
NEXT	If CELLAR=1: BASEHEAT; If CELLAR ne 1 and ATTIC=1: ATTCHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1=1: GARGHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1 ne 1: EQMAMT		
Derived		Show Card	CARI

RNGFUEL		<i>APPCookingEquipFuel, CookingEquipFuel</i>	
ASK	If RANGE=1		
What fuel does the cooking stove use? Is it...			
<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 CELLAR=1: BASEHEAT; If CELLAR ne 1 and ATTIC=1: ATTCHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1=1: GARGHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1 ne 1: EQMAMT		
Derived		Show Card	CARI

RNGFUELFU		<i>D5a6FollowUp</i>	
ASK	If RNGFUEL=21		
Could you tell me what that other fuel is?			

Open response					
NEXT					
Derived		Show Card		CARI	

NUMPORTELHEAT2 (New)			NUMPORTELHEAT2		
ASK	If CARRYEL=1				
How many portable electric heaters does your household use?					
1-99					
NEXT	If CELLAR=1: BASEHEAT; If CELLAR ne 1 and ATTIC=1: ATTCHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1=1: GARGHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1 ne 1: EQMAMT				
Derived		Show Card		CARI	

EQMAMT (Changed from 2009)			HowMuchHeat		
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...					
<ul style="list-style-type: none"> 1 Almost all 2 About three-fourths 3 Closer to half of all your heat 					
NEXT	If CELLAR=1: BASEHEAT; If CELLAR ne 1 and ATTIC=1: ATTCHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1=1: GARGHEAT; If CELLAR ne 1 and ATTIC ne 1 and PRKGPLC1 ne 1: MOISTURE				
Derived		Show Card		CARI	

BASEHEAT (Changed from 2009)			BASEHEAT		
ASK	If HEATHOME=1 and CELLAR=1				
Is any part of your basement heated using the heating equipment you've told me about?					
<ul style="list-style-type: none"> 1 Yes 0 No 					
NEXT	If BASEHEAT=1: BASEHT2; If BASEHEAT ne 1 and ATTIC=1: ATTCHEAT; If BASEHEAT ne 1 and ATTIC ne 1 and PRKGPLC1=1: GARGHEAT; If BASEHEAT ne 1 and ATTIC ne and PRKGPLC1 ne 1: MOISTURE				
Derived		Show Card		CARI	

BASEHT2 (Changed from 2009)		<i>APPHowWarmBsmnt</i>	
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; If ATTIC ne 1 and PRKGPLC1=1: GARGHEAT; If ATTIC ne 1 and PRKGPLC1 ne 1: MOISTURE		
Derived		Show Card	CARI

ATTCHEAT (Changed from 2009)		<i>ATTCHEAT</i>	
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 ATTCHEAT= 0 and PRKGPLC1=1: GARGHEAT; If ATTCHEAT=0 and PRKGPLC1 ne 1: MOISTURE		
Derived		Show Card	CARI

ATTCHT2 (Changed from 2009)		<i>APPHowWarmAttic</i>	
ASK	If ATTCHEAT=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)		<i>HowWarmGarage</i>	
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		<i>Humidifier</i>			
ASK	All respondents				
Humidifiers add moisture to the air and are often used in the winter. Is a humidifier used in your home?					
<ul style="list-style-type: none"> 1 Yes 0 No 					
NEXT	If MOISTURE=1: HUMIDTYPE Else: IVCOMMDFILTER				
Derived		Show Card		CARI	

HUMIDTYPE (New)		<i>HumidifierType</i>			
ASK	If MOISTURE=1				
Is your humidifier a portable humidifier or a whole home humidifier?					
<ul style="list-style-type: none"> 1 Portable 2 Whole home 					
NEXT	USEMOISTURE				
Derived		Show Card		CARI	

USEMOISTURE (Changed from 2009)		<i>HumidifierUse</i>			
ASK	If MOISTURE=1				
In the last year, how many months was the humidifier used? Was it...					
<ul style="list-style-type: none"> 1 less than 1 month, 2 1 to 3 months, 3 4 to 6 months, 4 7 to 9 months, 5 10 to 11 months, but not all year, or 6 Turned on all year long? 					
NEXT	IVCOMMDFILTER				
Derived		Show Card		CARI	

IVCOMMDFILTER		<i>IVCOMMDFILTER</i>			
ASK	All respondents				
<p style="color: blue;">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>					

1 I have comments regarding the quality of data in this section
 2 I do not have comments

NEXT | If IVCOMMDFILTER=1: IVCOMMD;
 Else: Section E

Derived		Show Card		CARI	
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IVCOMMD	<i>IVerCommentsD</i>
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ASK | If IVCOMMDFILTER=1

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.

Open response

NEXT | Section E

Derived		Show Card		CARI	
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SECTION E: AIR CONDITIONING

AIRCOND		<i>AirConditioning</i>
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)		<i>NotAirCond</i>
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: COOLTYPENOAC; Else: NUMCFAN	
Derived		Show Card
		CARI

COOLTYPENOAC (Changed from 2009)		<i>TypeOfACEquip</i>
ASK	If DNTAC=1	
<p style="color: blue;">Place show card XX in front of the respondent.</p> <p>We are still interested to know about the air conditioning equipment in your home. Please look at Card XX. What type of air conditioning equipment does your home have? Is it...</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
	Yes	CARI

COOLTYPE (Changed from 2009)		<i>TypeOfAirCoolEquip</i>
ASK	If AIRCOND=1	
<p style="color: blue;">Place show card XX in front of the respondent.</p>		

Please look at Card XX. What type of air conditioning equipment does your home have? Is it...					
<ul style="list-style-type: none"> 1 Central air conditioning system 2 Individual window/wall or portable units 3 Both a central system and individual units 					
NEXT	If COOLTYPE in(1,3): NUMCENAC If COOLTYPE=2: NUMBERAC Else: NUMCFAN				
Derived		Show Card	Yes	CARI	Yes

NUMCENAC (New)				NUMCENAC	
ASK	If COOLTYPE in(1,3)				
Do you have more than one central air conditioning unit?					
<ul style="list-style-type: none"> 1 Yes 0 No 					
NEXT	CENACHP				
Derived		Show Card		CARI	

CENACHP				HeatPumpCenAC	
ASK	If COOLTYPE in(1,3)				
Is your central air conditioning system a heat pump?					
<ul style="list-style-type: none"> 1 Yes 0 No 					
NEXT	If CENACHP=1 and EQUIPM ne 4: HPTYPE2; Else: ACOTHERS				
Derived		Show Card		CARI	

HPTYPE2 (New)				HPTYPE2	
ASK	If CENACHP=1 and EQUIPM ne 4				
What type of heat pump do you have? Is it...					
<ul style="list-style-type: none"> 1 Electric air source 2 Geothermal or ground source 3 Natural gas 					
NEXT	HPDUCTS				
Derived		Show Card		CARI	

HPDUCTS (New)		<i>HaveDuctWork</i>	
ASK	If CENACHP=1		
Does your heat pump deliver cold air through ducts and vents or is it a ductless system?			
<ul style="list-style-type: none"> 1 Ducts and vents 2 Ductless 			
NEXT	ACOTHERS		
Derived		Show Card	CARI

ACOTHERS		<i>CoolOthers</i>	
ASK	If COOLTYPE in(1,3)		
Does the central air conditioning equipment that cools your home also cool any other apartments, condos, households, businesses, or farm buildings?			
<ul style="list-style-type: none"> 1 Yes 0 No 			
NEXT	MAINTAC		
Derived		Show Card	CARI

MAINTAC (Changed from 2009)		<i>CACMaint</i>	
ASK	If COOLTYPE in(1,3)		
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.			
<ul style="list-style-type: none"> 1 Yes 0 No 			
NEXT	AGECENAC		
Derived		Show Card	CARI

AGECENAC		<i>AgeOfCenACEquip</i>	
ASK	If COOLTYPE in(1,3)		
Place show card 11 in front of the respondent.			
Please look at Card 11. Approximately, how old is your central air conditioning equipment?			
<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	THERMAINAC					
Derived		Show Card	Yes	CARI	Yes	

THERMAINAC		<i>HaveACThermostat</i>				
ASK	If COOLTYPE in(1,3)					
<p>Place show card 27 in front of the respondent.</p> <p>Please look at Card 27. 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	Yes	CARI		

PROTHERMAC		<i>IsACThermostatSetBack</i>				
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)		<i>AmtCenACUsed</i>				
ASK	If COOLTYPE in(1,3)					
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. Which best describes how your household controls your central air conditioning 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 USECENAC=9: USECENACFU; If USECENAC ne 9 and COOLTYPE=3: NUMBERAC; If USECENAC ne 9 and COOLTYPE=1: TEMPHOMEAC				
Derived		Show Card	Yes	CARI	Yes

USECENACFU		USECENACFU			
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; If COOLTYPE=1: TEMPHOMEAC				
Derived		Show Card		CARI	

NUMBERAC (Changed from 2009)		NumOfWindowACs			
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		WWTYPE, WWTYPEA			
ASK	If COOLTYPE in(2,3)				
<p>Is the [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		AgeOfWindowAC, AgeOfWindowACA			
ASK	If COOLTYPE in(2,3)				
<p>Place show card XX in front of the respondent.</p> <p>Please look at Card XX. Approximately, how old is the [most-used] individual air conditioning unit in your home?</p> <p>1 Less than 2 years old</p>					

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	THERMAINWW				
Derived		Show Card	Yes	CARI	

THERMAINWW (New)		HaveACThermostat			
ASK	If COOLTYPE in(2,3)				
<p>Place show card XX in front of the respondent.</p> <p>Please look at Card XX. Do you have a thermostat that controls your most used individual air conditioning unit?</p> <p>1 Yes 0 No</p>					
NEXT	If THERMAINWW=1: PROTHERM; Else: USEWW				
Derived		Show Card	Yes	CARI	

PROTHERMWW (New)		IsACThermostatSetBack			
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 most used individual unit programmable?</p> <p>1 Yes 0 No</p>					
NEXT	USEWW				
Derived		Show Card		CARI	

USEWWAC (Changed from 2009)		AmtWindowACUsed			
ASK	If COOLTYPE in(2,3)				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. Which best describes how your household controls your 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</p>					

5 Our household does not have control over the equipment 9 Other					
NEXT	If USEWWAC=9: USEWWACFU Else: TEMPHOMEAC				
Derived		Show Card	Yes	CARI	

USEWWACFU			<i>USEWWACFU</i>		
ASK	If USEWWAC=9				
Could you describe how your household uses your most used individual unit? Open response					
NEXT	TEMPHOMEAC				
Derived		Show Card		CARI	

TEMPHOMEAC (Changed from 2009)			<i>TempSetWhenHomeMult</i>		
ASK	If AIRCOND=1				
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. During the summer, what is the typical temperature when someone is home during the day? Open response					
NEXT	TEMPGONEAC				
Derived		Show Card		CARI	

TEMPGONEAC (Changed from 2009)			<i>TempSetWhenOut</i>		
ASK	If AIRCOND=1				
What is the typical temperature when no one is inside your home during the day? Open response					
NEXT	TEMPNITEAC				
Derived		Show Card		CARI	

TEMPNITEAC (Changed from 2009)			<i>TempSetWhenAsleep</i>		
ASK	If AIRCOND=1				
What is the typical temperature inside your home at night? Open response					

NEXT	BASECOOL
Derived	Show Card CARI

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

BASECL2 (Changed from 2009)		APPHowCoolBsmnt
ASK	If BASECOOL=1	
About how much of your basement is cooled? Is it...		
1 All 2 About half 3 Some		
NEXT	If ATTIC=1: ATTCCOOL; If ATTIC ne 1 and PRKGPLC1=1: GARGCOOL; If ATTIC ne 1 and PRKGPLC1 ne 1: NUMCFAN	
Derived	Show Card	CARI

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

ATTCCCL2 (Changed from 2009)		APPHowCoolAttic
ASK	If ATTCCOOL=1	
About how much of your attic is cooled? Is it...		

<p>1 All 2 About half 3 Some</p>					
NEXT	If PRKGPLC1=1: GARGCOOL; Else NUMCFAN				
Derived		Show Card		CARI	

GARGCOOL (Changed from 2009)				<i>HowCoolGarage</i>	
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)				<i>NumCeilingFansUsed</i>	
ASK	All respondents				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. How many of each type of fan does your household use?</p> <p>Ceiling fans</p> <p>0 – 15</p>					
NEXT	NUMFLOORFAN				
Derived		Show Card	Yes	CARI	

NUMFLOORFAN (NEW)				<i>NUMFLOORFAN</i>	
ASK	All respondents				
<p>Floor or window fans</p> <p>0 – 15</p> <p>Whole house fan (NUMWHOLEFAN) Attic fan (NUMATTICFAN)</p>					
NEXT	NUMWHOLEFAN				
Derived		Show Card	Yes	CARI	

NUMWHOLEFAN (New)		NUMWHOLEFAN			
ASK	All respondents				
Whole house fans					
0 – 15					
NEXT	NUMATTICFAN				
Derived		Show Card	Yes	CARI	

NUMATTICFAN (New)		NUMATTICFAN			
ASK	All respondents				
Attic fans					
0 – 15					
NEXT	If NUMCFAN>0: USECFAN Else: NOTMOIST				
Derived		Show Card	Yes	CARI	

USECFAN (Changed from 2009)		MostUsedFanUsage, MostUsedFanUsageA			
ASK	If NUMCFAN>0				
Thinking about the ceiling fan [that you use the most], how often is this fan used during the summer? Is it...					
<ul style="list-style-type: none"> 1 Turned on only a few days or nights when really needed 2 Turned on quite a bit 3 Turned on just about all summer 4 Not used at all 					
NEXT	NOTMOIST				
Derived		Show Card		CARI	

NOTMOIST		Dehumidifier			
ASK	All respondents				
Dehumidifiers remove moisture from the air and are often used in the summer. Is a dehumidifier used in your home?					
<ul style="list-style-type: none"> 1 Yes 0 No 					
NEXT	If NOTMOIST=1: MOISTTYPE Else: TREESHAD				
Derived		Show Card		CARI	

MOISTTYPE (New)		<i>DehumidifierType</i>	
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)		<i>DehumidifierUse</i>	
ASK	If NOTMOIST=1		
<p>In the last year, how many months was the dehumidifier used? Was it...</p> <p>1 less than 1 month, 2 1 to 3 months, 3 4 to 6 months, 4 7 to 9 months, 5 10 to 11 months, but not all year, or 6 Turned on all year long?</p>			
NEXT	TREESHAD		
Derived		Show Card	CARI

TREESHAD		<i>ShadeTree</i>	
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)		<i>IVCOMMEFILTER</i>	
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)				<i>IVCOMME</i>	
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)		H2OHEATAPT			
ASK	If TYPEHUQ in(4,5)				
<p>Do you have a water heater in your apartment or is the water heater located somewhere else in this building?</p> <p>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)		APPMainWaterHeatingFuel, APPMainWaterHeatingFuelA			
ASK	If TYPEHUQ in (1,2,3) or H2OHEATAPT=1				
<p style="color: blue;">Place show card XX in front of the respondent.</p> <p>Please look at Card XX. What fuel does your main 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 FUELH2O=21:FUELH2OFU; Else: WHEATSIZ				
Derived		Show Card	Yes	CARI	Yes

FUELH2OFU		E3FollowUp			
ASK	If FUELH2O=21				
<p>Could you tell me what that other fuel is?</p> <p>Open response</p>					
NEXT	If H2OTYPE2=1: WHEATSIZ2; If H2OTYPE2=2: WHEATAGE2				
Derived		Show Card		CARI	

WHEATSIZ (Changed from 2009)		APPSizeOfWaterHeater			
ASK	If TYPEHUQ in (1,2,3) or H2OHEATAPT=1				
Place show card XX in front of the respondent.					
Please look at Card XX. What is the approximate size of the main water heater?					
<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)		AgeHotH2OEquip			
ASK	If TYPEHUQ in (1,2,3) or H2OHEATAPT=1				
Place show card XX in front of the respondent.					
Please look at Card XX. Approximately how old is the main water heater?					
<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 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		WHBlanket			
ASK	If WHEATSIZ in (1,2,3)				
Has the main water heater in your home been insulated using a water heater blanket?					
<ul style="list-style-type: none"> 1 Yes 0 No 					
NEXT	MORETHAN1H2O				
Derived		Show Card		CARI	

MORETHAN1H2O (New)		MORETHAN1H2O			
ASK	If TYPEHUQ in (1,2,3) or H2OHEATAPT=1				
Do you have more than one water heater?					

1 Yes 0 No					
NEXT	If MORETHAN1H2O=1: FUELH2O2; Else: IVCOMMFFILTER				
Derived		Show Card		CARI	

FUELH2O2 (Changed from 2009)				APPOtherH2OFuel	
ASK	If MORETHAN1H2O=1				
<p>Place show card XX in front of the respondent.</p> <p>Please look at Card XX. Which fuel does your second water heater use?</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 21 Some other fuel 					
NEXT	If FUELH2O2=21:FUELH2O2FU; Else: WHEATSIZ2				
Derived		Show Card	Yes	CARI	

FUELH2O2FU				E3aFollowUp	
ASK	If FUELH2O2=21				
<p>Could you tell me what that other fuel is?</p> <p>Open response</p>					
NEXT	If H2OTYPE2=1: WHEATSIZ2; If H2OTYPE2=2: WHEATAGE2				
Derived		Show Card		CARI	

WHEATSIZ2 (Changed from 2009)				APPSizeOfWaterHeater2	
ASK	If MORETHAN1H2O=1				
<p>Place show card XX in front of the respondent.</p> <p>Please look at Card XX. 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)			<i>AgeOfWaterHeater2</i>		
ASK	If MORETHAN1H2O=1				
<p>Place show card XX in front of the respondent.</p> <p>Please look at Card XX. 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 41 15 to 19 years old 5 20 years or older 6 As old as the home (if volunteered) 					
NEXT	If WHEATSIZ2 in (1,2,3): WHEATBKT2; Else: IVCOMMFFILTER				
Derived		Show Card	Yes	CARI	

IVCOMMFFILTER (Changed from 2009)			<i>IVCOMMFFILTER</i>		
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)			<i>IVCOMMF</i>		
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

SWIMPOOL (Changed from 2009)		<i>SwimmingPool</i>
ASK	If TYPEHUQ in(1,2,3)	
<p>Does your home have its own swimming pool?</p> <p style="margin-left: 20px;">1 Yes 0 No</p>		
NEXT	If SWIMPOOL=1: MONPOOL Else: RECBATH	
Derived		Show Card
		CARI

MONPOOL (New)		<i>MONPOOL</i>
ASK	If SWIMPOOL=1	
<p>In the last year, how many months was your swimming pool in use?</p> <p style="margin-left: 20px;">0 - 12</p>		
NEXT	POOL	
Derived		Show Card
		CARI

POOL		<i>HeatedPool</i>
ASK	If SWIMPOOL=1	
<p>Is it a heated pool?</p> <p style="margin-left: 20px;">1 Yes 0 No</p>		
NEXT	If POOL=1: FUELPOOL Else: RECBATH	
Derived		Show Card
		CARI

FUELPOOL (Changed from 2009)		<i>APPPoolFuel</i>
ASK	If POOL=1	
<p>What fuel is used to heat the water in your swimming pool? Is it...</p> <p style="margin-left: 20px;">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		<i>G2a1FollowUp</i>			
ASK	If FUELPOOL=21				
<p>Could you tell me what that other fuel is?</p> <p>Open response</p>					
NEXT	RECBATH				
Derived		Show Card		CARI	

RECBATH (Changed from 2009)		<i>HotTub</i>			
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: LGTINNUM				
Derived		Show Card		CARI	

MONTUB (New)		<i>MONTUB</i>			
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	FUELTUB				
Derived		Show Card		CARI	

FUELTUB (Changed from 2009)		<i>APPHotTubFuel</i>			
ASK	If RECBATH=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</p>					

21 Some other fuel?					
NEXT	If FUELTUB=21: FUELTUBFU Else: LGTINNUM				
Derived		Show Card		CARI	

FUELTUBFU <i>G3aFollowUp</i>					
ASK	If FUELTUB=21				
<p>Could you tell me what that other fuel is?</p> <p>Open response</p>					
NEXT	LGTINNUM				
Derived		Show Card		CARI	

LGTINNUM (New) <i>LGTINNUM</i>					
ASK	All respondents				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. 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> <ol 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	LGTINCAN				
Derived		Show Card	Yes	CARI	Yes

LGTINCAN (New) <i>LGTINCAN</i>					
ASK	All respondents				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. What portion of the light bulbs inside your home are incandescent bulbs?</p> <ol style="list-style-type: none"> 1 All 2 Most 3 About half 4 Some 5 None 					

NEXT	LGTINCFL				
Derived		Show Card	Yes	CARI	

LGTINCFL (New)		LGTINCFL			
ASK	All respondents				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. What portion of the light bulbs inside your home are CFL bulbs?</p> <ul style="list-style-type: none"> 1 All 2 Most 3 About half 4 Some 5 None 					

NEXT	LGTINLED				
Derived		Show Card	Yes	CARI	Yes

LGTINLED (New)		LGTINLED			
ASK	All respondents				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. What portion of the light bulbs inside your home are LED bulbs?</p> <ul style="list-style-type: none"> 1 All 2 Most 3 About half 4 Some 5 None 					

NEXT	LGTINCNTL				
Derived		Show Card	Yes	CARI	Yes

LGTINCNTL (New)		LGTINCNTL			
ASK	All respondents				
<p>Are any of the light bulbs inside your home controlled by timers or dimmer switches?</p> <ul style="list-style-type: none"> 1 Yes 0 No 					

NEXT	LGTIN4				
Derived		Show Card		CARI	

LGTIN4 (New)		LGTIN4	
ASK	All respondents		
How many of the light bulbs inside your home are used at least 4 hours per day?			
0 - 99			
NEXT	If TYPEHUQ in(1,2,3): LGTOUTNUM Else: AUDIT		
Derived		Show Card	CARI

LGTOUTNUM (New)		LGTOUTNUM	
ASK	If TYPEHUQ in(1,2,3)		
Place show card X in front of the respondent.			
Please look at Card X. About how many light bulbs are installed outside your home?			
0 None			
1 1 to 4 bulbs			
2 5 to 9 bulbs			
3 10 or more bulbs			
NEXT	If LGTOUTNUM in(1,2,3): LGTOUTNITE		
Derived		Show Card	Yes

LGTOUTNITE (New)		LGTOUTNITE	
ASK	If LGTOUTNUM in(1,2,3)		
How many of the light bulbs outside your home are typically left on all night?			
0 - 99			
NEXT	If LGTOUTNITE>0: LGTOUTCAN, LGTOUTCFL, LGTOUTLED, LGTOUTNG		
Derived		Show Card	CARI

LGTOUTCAN, LGTOUTCFL, LGTOUTLED, LGTOUTNG (New)		LGTOUTCAN, LGTOUTCFL, LGTOUTLED, LGTOUTNG	
ASK	If LGTOUTNITE>0		
Place show card X in front of the respondent.			
Please look at Card X. Which of these types of lights bulbs are typically left on all night outside your home?			
Mark all that apply.			
Incandescent bulbs (LGTOUTCAN)			
CFL bulbs (LGTOUTCFL)			

LED bulbs (LGTOUTLED) Natural gas lights (LGTOUTNG)					
NEXT	LGTOUTCNTL				
Derived		Show Card	Yes	CARI	

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

AUDIT			Audit		
ASK	All respondents				
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?					
1 Yes 0 No					
NEXT	If AUDIT=1: AUDITCHG Else if KOWNRENT=1: EELIGHTS, EETHERM, FREEAUDIT, REBATEAPP, RECYCAPP, SUBLOAN, TAXCREDITAPP, TAXCREDITWIN, WEATHERIZATION, BENOTHER Else: ENERGYASST				
Derived		Show Card		CARI	

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

EELIGHTS, EETHERM, FREEAUDIT, REBATEAPP, RECYCAPP, SUBLOAN, TAXCREDITAPP, TAXCREDITWIN, WEATHERIZATION, BENOTHER (New)		<i>EELIGHTS, EETHERM, FREEAUDIT, REBATEAPP, RECYCAPP, SUBLOAN, TAXCREDITAPP, TAXCREDITWIN, WEATHERIZATION, BENOTHER</i>			
ASK	If KOWNRENT=1				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. Has your household received any 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) 					
NEXT	If BENOTHER=1: BENOTHERFU Else: ENERGYASST				
Derived		Show Card	Yes	CARI	Yes

BENOTHERFU (New)		<i>BENOTHERFU</i>			
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)		<i>ENERGYASST</i>			
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				
Derived		Show Card		CARI	

ENERGYASST11, ENERGYASST12, ENERGYASST13, ENERGYASST14, ENERGYASST15, ENERGYASSTOTH (New)		ENERGYASST11, ENERGYASST12, ENERGYASST13, ENERGYASST14, ENERGYASST15, ENERGYASSTOTH			
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>1 2011 2 2012 3 2013 4 2014 5 2015 6 Some other year(s)</p>					
NEXT	ESWIN, ESFRIG, ESFREEZE, ESDISHW, ESCWASH, ESDRYER, ESWATER, ESLIGHT				
Derived		Show Card		CARI	

ESWIN, ESFRIG, ESFREEZE, ESDISHW, ESCWASH, ESDRYER, ESWATER, ESLIGHT (New) (Changed from 2009)		EnergyStarWindows, EnergyStarFrig, EnergyStarFreezer, EnergyStarDishwash, EnergyStarClothesWasher, EnergyStarDryer, EnergyStarWaterHeater, EnergyStarLighting			
ASK	All respondents				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. Which of these products in your home are ENERGY STAR qualified?</p> <p>Mark all that apply.</p> <p>Windows Refrigerator Freezer Dishwasher Clothes washer Clothes dryer Water heater Light bulbs</p>					
NEXT	If THERMAIN=1 or THERMAINAC=1: SMARTTHERM Else if TYPEHUQ in(1,2,3,4): OUTLET Else: ALTFUELPEV, ALTFUELHYB, ALTFUELE85				
Derived		Show Card	Yes	CARI	

SMARTTHERM (New)		SMARTTHERM	
ASK	If THERMAIN=1 or THERMAINAC=1		
Does your home have a "smart" or Internet-connected thermostat?			
1 Yes 0 No			
NEXT	If TYPEHUQ in(1,2,3,4): OUTLET Else: ALTFUELPEV, ALTFUELHYB, ALTFUELE85		
Derived		Show Card	CARI

OUTLET		CarOutlet	
ASK	If TYPEHUQ in(1,2,3,4)		
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.			
1 Yes 0 No			
NEXT	ALTFUELPEV, ALTFUELHYB, ALTFUELE85		
Derived		Show Card	CARI

ALTFUELPEV, ALTFUELHYB, ALTFUELE85 (New) ALTFUELPEV, ALTFUELHYB, ALTFUELE85	
ASK	All respondents
Do you or any member of your household own or lease any of the following alternative fuel vehicles?	
Mark all that apply.	
Plug-in electric vehicle or PEV (ALTFUELPEV) Gas-electric hybrid (ALTFUELHYB) E85 or "flex-fuel" vehicle (ALTFUELE85)	
NEXT	If ALTFUELE85=1: E85USE
Derived	Show Card

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

NEXT	IVCOMMFILTER				
Derived		Show Card		CARI	

ELOTHER					
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	

SOLOTHER					
ASK					
Derived					
NEXT					
Derived	Yes	Show Card		CARI	

WDOTHUSE					
ASK					
Derived					
NEXT					
Derived	Yes	Show Card		CARI	

IVCOMMGFILTER			<i>IVCOMMGFILTER</i>		
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: IVCOMMG Else: Section H				
Derived		Show Card		CARI	

IVCOMMG			<i>IVerCommentsG</i>		
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)		<i>BACKUP</i>
ASK	All respondents	
<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)		<i>RenewableType</i>
ASK	All respondents	
<p style="color: blue;">Place show card X in front of the respondent.</p> <p>Please look at Card X. 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		<i>H2aFollowUp</i>
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		<i>GridConnect</i>
ASK	If ONSITETYPE in(1,2,3,9)	
<p>Is your on-site system connected to the grid?</p>		

1 Yes 0 No	
NEXT	ONSITEGENCAP
Derived	Show Card CARI

ONSITEGENCAP (New)		ONSITEGENCAP
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		INTRO
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: USEEL, USENG, USELP, USEFO, USEKERO, USEWOOD, USESOLAR Else if USEEL=1: ELPAY 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	CARI

USEEL, USENG, USELP, USEFO, USEKERO, USEWOOD, USESOLAR		WhichOnes1, WhichOnes2, WhichOnes3, WhichOnes4, WhichOnes5, WhichOnes6, WhichOnes7
ASK	If OTHFUELUSE=1	
<p>Which of these other fuels do you also use? Is it...</p> <p>Mark all that apply.</p> <p>Electricity, (USEEL) Natural gas, (USENG) Propane (bottled gas), (USELP) Fuel oil, (USEFO) Kerosene, (USEKERO)</p>		

Wood, or (USEWOOD) Solar? (USESOLAR)					
NEXT	OTHFUELUSE				
Derived	Yes	Show Card		CARI	

OTHFUELFU (New)				OTHFUELFU	
ASK	If OTHFUELUSE=1				
<p>Could you tell me how [CAPI WILL LIST THE FUELS FROM OTHFUELUSE] is used in your home?</p> <p>Open response</p>					
NEXT	If USEEL=1: ELPAY 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		CARI	

ELPAY (New)				WhoPaysElec	
ASK	If USEEL=1				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. Which of the following describes who is responsible for paying for the electricity used in this home?</p> <p>1 Household is responsible for paying for all electricity used in this home 2 All electricity 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 ELPAY=3: PELHEAT, PELHOTWA, PELAC, PELCOOK, PELLIGHT 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, PELHOTWA, PELAC, PELCOOK, PELLIGHT (Changed from 2009)				WhoPaysElecHeat, WhoPaysElecHotH2O, WhoPaysElecAirCond, WhoPaysElecCooking, WhoPaysElecLighting	
ASK	If ELPAY=3				
Place show card X in front of the respondent.					

Please look at Card X. For which electricity uses are the costs included in your rent or condo fee?

Mark all that apply.

- Heating (PELHEAT)
- Water heating (PELHOTWA)
- Air conditioning (PELAC)
- Cooking (PELCOOK)
- Lighting and appliances (PELLIGHT)

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)	WhoPaysNatGas
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ASK	If USENG=1
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Place show card X in front of the respondent.

Please look at Card X. Which of the following describes who is responsible for paying for the natural gas used in this home?

- 1 Household is responsible for paying for all natural gas used in this home
- 2 All natural gas 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 NGPAY=3: PUGHEAT, PUGHOTWA, PUGCOOK, PUGOTH 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, PUGHOTWA, PUGCOOK, PUGOTH (Changed from 2009)	WhoPaysNatGasHeat, WhoPaysNatGasHotH2O, WhoPaysNatGasCook, WhoPaysNatGasOther
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ASK	If NGPAY=3
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Place show card X in front of the respondent.

Please look at Card X. For which electricity uses are the costs included in your rent or condo fee?

Mark all that apply.

- Heating (PUGHEAT)
- Water heating (PUGHOTWA)

Cooking (PUGCOOK) Other uses (PUGOTH)					
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	Yes	CARI	

FOPAY (Changed from 2009)				WhoPaysFuelOil	
ASK	If USEFO=1				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. 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 fuel oil used in this home 2 All fuel oil 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 QUANTFO				
Derived		Show Card	Yes	CARI	

LPGPAY (Changed from 2009)				WhoPaysBttldGas	
ASK	If USELP=1				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. 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 propane used in this home 2 All propane 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	LPGDELV				
Derived		Show Card	Yes	CARI	

LPGDELV				BttldGasDelivered	
ASK	If USELP=1				
Is propane (bottled gas) delivered to your home?					

1 Yes 0 No					
NEXT	If LPGDELV=1: NDIFLPCO Else: LPGCASH				
Derived		Show Card		CARI	

NDIFLPCO (Changed from 2009)				NumBttlIdGasCos	
ASK	If LPGDELV=1				
How many different companies delivered propane (bottled gas) to your home in the last year? 0 - 10					
NEXT	If NLPDELNC>0: NLPDELNC Else: LPGCASH				
Derived		Show Card		CARI	

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

LPGCASH (New)				LPGCASH	
ASK	If USELP=1				
In the last year, did your household buy propane (bottled gas) and bring it home? 1 Yes 0 No					
NEXT	If LPGCASH=1: NLPGCASH Else if USEFO=1: QUANTFO Else if USEKERO=1: KERODEL Else if USEWOOD=1: WOODLOGS, WDSCRAP, WDPellet, WDOTHER Else: IVCMMHFILTER				
Derived		Show Card		CARI	

NLPGCASH (New)				NLPGCASH	
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)				NLPGALNC	
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	

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

QUANTFO (Changed from 2009)				GalsFuelOilUsed	
ASK	If USEFO=1				
Place show card X in front of the respondent. Please look at Card X. About how many gallons of fuel oil did your household use in the last year?					
<ul style="list-style-type: none"> 1 Less than 100 gallons 2 100 to 499 gallons 3 500 to 1,000 gallons 4 More than 1,000 gallons 					
NEXT	NDIFFOCO				
Derived		Show Card	Yes	CARI	

NDIFFOCO (Changed from 2009)				NumFuelOilCos	
ASK	If USEFO=1				
How many different companies delivered fuel oil to your home in the last year?					

0 - 10					
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)				NumFuelOilDels	
ASK	If NDIFFOCO>0				
About how many deliveries did your household get in the last year?					
0 - 25					
NEXT	If USEKERO=1: KERODEL Else if USEWOOD=1: WOODLOGS, WDSCRAP, WDPellet, WDOther Else: IVCOMMFilter				
Derived		Show Card		CARI	

KERODEL				KeroseneDelivered	
ASK	If USEKERO=1				
Is kerosene delivered to your home?					
1 Yes 0 No					
NEXT	If KERODEL=1: NDIFKRCO Else: KEROcASH				
Derived		Show Card		CARI	

NDIFKRCO (Changed from 2009)				NumKeroseneCos	
ASK	If KERODEL=1				
How many different companies delivered kerosene to your home in the last year?					
0 - 10					
NEXT	If NDIFKRCO>0: NKRDEL				
Derived		Show Card		CARI	

NKRDEL (Changed from 2009)				NumKeroseneDels	
ASK	If NDIFKRCO>0				
About how many deliveries did your household get in the last year?					

0 - 25					
NEXT	KEROCASH				
Derived		Show Card		CARI	

KEROCASH (Changed from 2009)				CashNCarryKero	
ASK	If USEKERO=1				
Did your household buy kerosene in the last year and bring it home, that is, cash and carry?					
1 Yes 0 No					
NEXT	If KEROCASH=1: NOCRCASH Else if USEWOOD=1: WOODLOGS, WDSCRAP, WDPellet, WDOTHER Else: IVCOMMFILTER				
Derived		Show Card		CARI	

NOCRCASH (Changed from 2009)				NumKeroCashBuys	
ASK	If KEROCASH=1				
How many times in the last year did your household buy kerosene and bring it home?					
0 - 55					
NEXT	If NOCRCASH>1: NKRGalNC				
Derived		Show Card		CARI	

NKRGalNC				GalsKeroPerBuy	
ASK	If KEROCASH=1				
On average, how many gallons of kerosene did your household buy and bring home each time?					
0 - 77					
NEXT	PRICEKER				
Derived		Show Card		CARI	

PRICEKER				KeroPricePerGal	
ASK	If KEROCASH=1				
On average, about how much per gallon did your household pay for kerosene?					
0.50 - 5.00					

NEXT	If USEWOOD=1: WOODLOGS, WDSCRAP, WDPellet, WDOTHER Else: IVCOMMFILTER			
Derived		Show Card		CARI

WOODLOGS, WDSCRAP, WDPellet, WDOTHER		<i>KindWoodBurned1, KindWoodBurned2, KindWoodBurned3, KindWoodBurned4</i>		
ASK	If USEWOOD=1			
<p>You mentioned that you use wood as a fuel in your household. Do you burn...</p> <p>Mark all that apply.</p> <p>Wood logs or split wood, (WOODLOGS) Wood scraps, (WOODSCRAP) Wood pellets, or (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)		<i>PELLETAMT</i>		
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 - 9999</p>				
NEXT	If WOODLOGS=1 or WDSCRAP=1 or WDOTHER=1: NUMCORDS Else: WOODPUR			
Derived		Show Card		CARI

NUMCORDS (Changed from 2009)		<i>NumCordsUsed</i>		
ASK	If WOODLOGS=1 or WDSCRAP=1 or WDOTHER=1			
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. 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: WDAMOUNT Else: WOODPUR				
Derived		Show Card	Yes	CARI	

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

WOODPUR (New)				WOODPUR	
ASK	If USEWOOD=1				
Was the wood used by your household in the last year... 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)				WOODCOST	
ASK	If WOODPUR in(1,3)				
About how much did your household spend on wood in the last year? 0 - 99999					
NEXT	IVCOMMHFILTER				
Derived		Show Card		CARI	

IVCOMMHFILTER				IVCOMMHFILTER	
ASK	All respondents				
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. 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	

IVCOMMHFILTER				<i>IVerCommentsH</i>	
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)		<i>SquareFootage</i>
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 or ATTIC=1 or PRKGPLC1=1: SQFTINCB, SQFTINCA, SQFTINCG Else: SHAPE1FLRA	
Derived	Show Card	CARI Yes

SQFTINCB, SQFTINCA, SQFTINCG (New)		<i>SQFTINCB, SQFTINCA, SQFTINCG</i>
ASK	If CELLAR=1 or ATTIC=1 or PRKGPLC1=1	
<p>Which of the following areas are included in your estimate of [FILL: SQFTEST] square feet? Your...</p> <p style="text-align: center;"> [If CELLAR=1: Basement] (SQFTINCB) [If ATTIC=1: Attic] (SQFTINCA) [If PRKGPLC1=1: Attached garage] (SQFTINCG) </p>		
NEXT	SHAPE1FLRA	
Derived	Show Card	CARI

SHAPE1FLRA (Changed from 2009)		<i>ShapeOf1stFloor</i>
ASK	All respondents	
<p style="color: blue;">Place show card X in front of the respondent.</p> <p>Please look at Card X. 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> <ol style="list-style-type: none"> 1 Square or Rectangle 2 T-shaped (2 Squares or Rectangles) 3 L-shaped (2 Squares or Rectangles) 4 Some other shape 		
NEXT	If STORIES in(20,31,32) or NAPTFILRS>1: SHAPE2FLR Else if ATTICFIN in(1,2) or ATTICHEAT=1: SHAPEATTIC Else if CELLAR=1: SHAPEBASE Else: MEASURE	
Derived	Show Card	Yes CARI

SHAPE2FLR		<i>Footprint2ndFloorShape</i>
ASK	If STORIES in(20,31,32) or NAPTFILRS>1	

Is the shape of the second floor of this home the same as the first floor?				
1 Yes 0 No				
NEXT	If SHAPE2FLR=1: SIZE2FLR Else: SHAPE2FLRA			
Derived		Show Card		CARI

SIZE2FLR		Footprint2ndFloorSize		
ASK	If SHAPE2FLR=1			
Is the size of the second floor of this home the same as the first floor?				
1 Yes 0 No				
NEXT	If STORIES in(31,32) or NAPTFLRS>2: SHAPE3FLR Else if ATTICFIN in(1,2) or ATTICHEAT=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)		ShapeOf2ndFloor		
ASK	If (STORIES in(20,31,32) or NAPTFLRS>1) and SHAPE2FLR ne 1			
Place show card X in front of the respondent.				
Please look at Card X. Thinking about the second floor of your home, which best describes the shape?				
1 Square or Rectangle 2 T-shaped (2 Squares or Rectangles) 3 L-shaped (2 Squares or Rectangles) 4 Some other shape				
NEXT	If STORIES in(31,32) or NAPTFLRS>2: SHAPE3FLR Else if ATTICFIN in(1,2) or ATTICHEAT=1: SHAPEATTIC Else if CELLAR=1: SHAPEBASE Else: MEASURE			
Derived		Show Card	Yes	CARI

SHAPE3FLR		Footprint3rdFloorShape		
ASK	If STORIES in(31,32) or NAPTFLRS>2			
Is the shape of the third floor of this home the same as the second floor?				
1 Yes 0 No				

NEXT	If SHAPE3FLR=1: SIZE3FLR Else: SHAPE3FLRA				
Derived		Show Card		CARI	

SIZE3FLR		<i>Footprint3rdFloorSize</i>			
ASK	If SHAPE3FLR=1				
Is the size of the third floor of this home the same as the second floor?					
1 Yes 0 No					
NEXT	If ATTICFIN in(1,2) or ATTICHEAT=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)		<i>ShapeOf3rdFloor</i>			
ASK	If (STORIES in(31,32) or NAPNFLRS>2) and SHAPE3FLR ne 1				
Place show card X in front of the respondent.					
Please look at Card X. Thinking about the third floor of your home, which best describes the shape?					
1 Square or Rectangle 2 T-shaped (2 Squares or Rectangles) 3 L-shaped (2 Squares or Rectangles) 4 Some other shape					
NEXT	If ATTICFIN in(1,2) or ATTICHEAT=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)		<i>FootprintAtticShape</i>			
ASK	If ATTICFIN in(1,2) or ATTICHEAT=1				
Is the shape of the attic of this home the same as the floor under it?					
1 Yes 0 No					
NEXT	If SHAPEATTIC=1: SIZEATTIC Else: SHAPEATTICA				
Derived		Show Card		CARI	

SIZEATTIC		<i>FootprintAtticSize</i>			
ASK	If SHAPEATTIC=1				
Is the size of the attic of this home the same as the floor under it?					
1 Yes 0 No					
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)		<i>ShapeOfAttic</i>			
ASK	If ATTICFIN in(1,2) or ATTCHEAT=1 and SHAPEATTIC ne 1				
Place show card X in front of the respondent.					
Please look at Card X. Thinking about the attic of your home, which best describes the shape?					
1 Square or Rectangle 2 T-shaped (2 Squares or Rectangles) 3 L-shaped (2 Squares or Rectangles) 4 Some other shape					
NEXT	If CELLAR=1: SHAPEBASE Else if GARGLOC=2 and SIZE2FLR=1: OVERGARG Else: MEASURE				
Derived		Show Card	Yes	CARI	

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

SIZEBASE		<i>FootprintBasementSize</i>			
ASK	If SHAPEBASE=1				
Is the size of the basement of this home the same as the floor directly above it?					
1 Yes					

0 No					
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)			<i>ShapeOfBasement</i>		
ASK	If CELLAR=1 and SHAPEBASE ne 1				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. Thinking about the basement of your home, which best describes the shape [If LocationOfGarage=1: including the garage]?</p> <ol style="list-style-type: none"> 1 Square or Rectangle 2 T-shaped (2 Squares or Rectangles) 3 L-shaped (2 Squares or Rectangles) 4 Some other shape 					
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)			OVERGARG		
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> <ol style="list-style-type: none"> 1 Yes 0 No 					
NEXT	MEASURE				
Derived		Show Card		CARI	

MEASURE			<i>PermissionToMeasure</i>		
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> <ol style="list-style-type: none"> 1 Yes 0 No 					

NEXT	TOTSQFT_EN				
Derived		Show Card		CARI	

TOTSQFT_EN					
ASK	If MEASURE=1				
<p>Interviewer Task: Use the measurement worksheet to record the measurements of each level of this home.</p> <p>100 - 50,000</p>					
NEXT	IVCOMMIFILTER				
Derived	Yes	Show Card		CARI	

IVCOMMIFILTER			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			IVerCommentsI		
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

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

ELWHYNOT (Changed from 2009)		WhyNotHaveElecBill
ASK	If ELBILLTOSCAN=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	ELSUPPNAME	
Derived		Show Card CARI

ELSUPPNAME (Changed from 2009)		ElecSupplierName
ASK	If ELPAY in(1,3)	
<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): NGBILLTOSCAN Else if LPGPAY in(1,3): LPGBILLTOSCAN Else if FOPAY in(1,3): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT	
Derived		Show Card CARI

ELSUPPSTREET		ElecSupplierAddress
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	

<p>ELSUPPCITY <i>ElecSupplierCity</i></p>					
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	

<p>ELSUPPSTATE <i>ElecSupplierState</i></p>					
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	

<p>ELSUPPZIP <i>ElecSupplierZIP</i></p>					
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	

<p>ELSUPPAREACODE <i>ELSuppAreaCode</i></p>					
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	

ELSUPTELNUMBER		<i>ELSuppTelNumber</i>	
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): NGBILLTOSCAN Else if LPGPAY in(1,3): LPGBILLTOSCAN Else if FOPAY in(1,3): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT		
Derived		Show Card	CARI

ELLOOKUPCNFRM		<i>ConfElecSupp</i>	
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): NGBILLTOSCAN Else if LPGPAY in(1,3): LPGBILLTOSCAN Else if FOPAY in(1,3): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT		
Derived		Show Card	CARI

NGBILLTOSCAN (Changed from 2009)		<i>HaveNGBilltoScan</i>	
ASK	If NGPAY in(1,3)		
<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)		<i>WhyNotHaveNGBill</i>	
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</p>			

3 Respondent doesn't have this bill now 4 Other				
NEXT	NGSUPPNAME			
Derived		Show Card		CARI

NGSUPPNAME (Changed from 2009) <i>NGSupplierName</i>				
ASK	If NGPAY in(1,3)			
<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 LPGPAY in(1,3): LPGBILLTOSCAN Else if FOPAY in(1,3): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT			
Derived		Show Card		CARI

NGSUPPSTREET <i>NGSupplierAddress</i>				
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 <i>NGSupplierCity</i>				
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 <i>NGSupplierState</i>				
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>				

Open response					
NEXT	NGSUPPZIP				
Derived		Show Card		CARI	

NGSUPPZIP <i>NGSupplierZIP</i>					
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 <i>NGSuppAreaCode</i>					
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 <i>NGSuppTelNumber</i>					
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 LPGPAY in(1,3): LPGBILLTOSCAN Else if FOPAY in(1,3): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT				
Derived		Show Card		CARI	

NGLOOKUPCNFRM <i>ConfNGSupp</i>					
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): LPGBILLTOSCAN Else if FOPAY in(1,3): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT			
Derived		Show Card		CARI

LPGBILLTOSCAN (Changed from 2009)		HaveLPGBilltoScan		
ASK	If LPGPAY in(1,3) and LPGDELV=1			
Do you have a recent bill from your [If NDIFLPCO>1: most-used] propane (bottled gas) supplier that I can scan into my computer?				
1 Yes 0 No				
NEXT	If LPGBILLTOSCAN=0: LPGWHYNOT Else if LPGDELV=1: LPGSUPPNAME1 Else if FOPAY in(1,3): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT			
Derived		Show Card		CARI

LPGWHYNOT (Changed from 2009)		WhyNotHaveLPGBill		
ASK	If LPGBILLTOSCAN=0			
Please indicate why there is no bill to scan.				
1 Respondent only receives this bill electronically 2 Confidentiality/privacy concern 3 Respondent doesn't have this bill now 4 Other				
NEXT	If LPGDELV=1: LPGSUPPNAME1 Else if FOPAY in(1,3): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT			
Derived		Show Card		CARI

LPGSUPPNAME1		LPGSupplierName1		
ASK	If LPGPAY in(1,3) and LPGDELV=1			
What is the name of your household's [if NDIFLPCO>1: most used] propane (bottled gas) supplier?				
Open response				

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

LPGSUPPSTREET1		<i>LPGSupplierAddress1</i>			
ASK	If LPGBILLTOSCAN=1 and LPGDELV=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		<i>LPGSupplierCity1</i>			
ASK	If LPGBILLTOSCAN=1 and LPGDELV=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		<i>LPGSupplierState1</i>			
ASK	If LPGBILLTOSCAN=1 and LPGDELV=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		<i>LPGSupplierZIP1</i>			
ASK	If LPGBILLTOSCAN=1 and LPGDELV=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		LPGSuppAreaCode1A			
ASK	If LPGBILLTOSCAN=1 and LPGDELV=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		LPGSuppTelNumber1A			
ASK	If LPGBILLTOSCAN=1 and LPGDELV=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): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT				
Derived		Show Card		CARI	

LPGBILLTOSCAN2		HaveLPGBilltoScan2			
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)		WhyNotHaveLPGBill2			
ASK	If LPGBILLTOSCAN2=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	LPGSUPPNAME2				
Derived		Show Card		CARI	

LPGSUPPNAME2		<i>LPGSupplierName2</i>			
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): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT				
Derived		Show Card		CARI	

LPGSUPPSTREET2		<i>LPGSupplierAddress2</i>			
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		<i>LPGSupplierCity2</i>			
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		<i>LPGSupplierState2</i>			
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		<i>LPGSupplierZIP2</i>			
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		<i>LPGSupAreaCode2A</i>			
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		<i>LPGSupTelNumber2A</i>			
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): FOBILLTOSCAN Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT				
Derived		Show Card		CARI	

FOBILLTOSCAN		<i>HaveFOBilltoScan</i>			
ASK	If FOPAY in(1,3)				
<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)		<i>WhyNotHaveFOBill</i>	
ASK	If FOBILLTOSCAN=0		
<p>Please indicate why there is no bill to scan.</p> <ol 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	FOSUPPNAME1		
Derived		Show Card	CARI

FOSUPPNAME1		<i>FOSupplierName1</i>	
ASK	If FOPAY in(1,3)		
<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		<i>FOSupplierAddress1</i>	
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		<i>FOSupplierCity1</i>	
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		FOSupplierState1			
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		FOSupplierZIP1			
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		FOSuppAreaCode1A			
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		FOSuppTelNumber1A			
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		HaveFOBilltoScan2			
ASK	If FOPAY in(1,3) 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</p>					

most-used] fuel oil supplier that I can scan into my computer?					
1 Yes 0 No					
NEXT	If FOBILLTOSCAN2=0: FOWHYNOT2 Else: FOSUPPNAME2				
Derived		Show Card		CARI	

FOWHYNOT2 (Changed from 2009)				WhyNotHaveFOBill2	
ASK	If FOBILLTOSCAN2=0				
Please indicate why there is no bill to scan.					
1 Respondent only receives this bill electronically 2 Confidentiality/privacy concern 3 Respondent doesn't have this bill now 4 Other					
NEXT	FOSUPPNAME2				
Derived		Show Card		CARI	

FOSUPPNAME2				FOSupplierName2	
ASK	If FOPAY in(1,3) and NDIFFOCO>1				
What is the name of your household's [If NDIFFOCO=2: other; If NDIFFOCO>2: second most used] fuel oil supplier?					
Open response					
NEXT	If FOBILLTOSCAN2=1: FOSUPPSTREET2 Else if KERODEL=1: KEROBILLTOSCAN Else: KFUELOT				
Derived		Show Card		CARI	

FOSUPPSTREET2				FOSupplierAddress2	
ASK	If FOBILLTOSCAN2=1				
RECORD the supplier's street address as it appears on the bill here.					
Open response					
NEXT	FOSUPPCITY2				
Derived		Show Card		CARI	

FOSUPPCITY2				FOSupplierCity2	
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						<i>FOSupplierState2</i>					
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						<i>FOSupplierZIP2</i>					
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						<i>FOSuppAreaCode2A</i>					
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						<i>FOSuppTelNumber2A</i>					
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 <i>HaveKeroBilltoScan</i>					
ASK	If KERODEL=1				
Do you have a recent bill from your household's [If NDIFKRCO>1: most-used] kerosene supplier that I can scan into my computer?					
1 Yes 0 No					
NEXT	If KEROBILLTOSCAN=0: KEROWHYNOT Else: KEROSUPPNAME1				
Derived		Show Card		CARI	

KEROWHYNOT (Changed from 2009) <i>WhyNotHaveKeroBill</i>					
ASK	If KEROBILLTOSCAN=0				
Please indicate why there is no bill to scan.					
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 <i>KeroSupplierName1</i>					
ASK	If KERODEL=1				
What is the name of your household's [if NDIFKRCO>1: most used] kerosene supplier?					
Open response					
NEXT	If KEROBILLTOSCAN=1: KEROSUPPSTREET1 Else if NDIFKRCO>1: KEROBILLTOSCAN2 Else: KFUELOT				
Derived		Show Card		CARI	

KEROSUPPSTREET1 <i>KeroSupplierAddress1</i>					
ASK	If KEROBILLTOSCAN=1				
RECORD the supplier's street address as it appears on the bill here.					
Open response					

NEXT	KEROSUPPCITY1				
Derived		Show Card		CARI	

KEROSUPPCITY1		<i>KeroSupplierCity1</i>			
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		<i>KeroSupplierState1</i>			
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		<i>KeroSupplierZIP1</i>			
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		<i>KEROSuppAreaCode1A</i>			
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		KERO ^{SuppTelNumber1A}	
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		HaveKeroBilltoScan2	
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)		WhyNotHaveKeroBill2	
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		KeroSupplierName2	
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				<i>KeroSupplierAddress2</i>	
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				<i>KeroSupplierCity2</i>	
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				<i>KeroSupplierState2</i>	
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				<i>KeroSupplierZIP2</i>	
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		<i>KEROSuppAreaCode2A</i>			
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		<i>KEROSuppTelNumber2A</i>			
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)		<i>OtherPurposes</i>			
ASK	If ELPAY in(1,3) or NGPAY in(1,3) or LPGPAY in(1,3) or FOPAY in(1,3)				
<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		<i>WhichOtherPurposes1, WhichOtherPurposes2, WhichOtherPurposes3, WhichOtherPurposes4</i>			
ASK	If KFUELOT=1				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. 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				<i>WhichFollowUp</i>	
ASK	If OTHERUSE=1				
<p>Could you tell me what that use was?</p> <p>Open response</p>					
NEXT	BILLEL, BILLUG, BILLPG, BILLFOIL, BILLKER				
Derived		Show Card		CARI	

BILLEL, BILLUG, BILLPG, BILLFOIL, BILLKER (Changed from 2009)				<i>WhichFuels1, WhichFuels2, WhichFuels3, WhichFuels4, WhichFuels5</i>	
ASK	If KFUELOT=1				
<p>Which of your household's energy bills include costs for energy used for non-household purposes? Is it...</p> <p>Mark all that apply.</p> <p>Electricity, (BILLEL) Natural gas from underground pipes, (BILLUG) Propane (bottled gas), (BILLPG) Fuel oil, or (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				<i>HowMuchElec</i>	
ASK	If BILLEL=1				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. What portion of the electricity bill is for non-household uses?</p> <p>0 Very little (1-4%) 1 Some (5-33%) 2 About half (34-66%) 3 About three-quarters (67-95%) 4 Most of it (96-99%)</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	Yes	CARI	

NGNONHSHLD		<i>HowMuchNatGas</i>			
ASK	If BILLUG=1				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. What portion of the natural gas bill is for non-household uses?</p> <p>0 Very little (1-4%) 1 Some (5-33%) 2 About half (34-66%) 3 About three-quarters (67-95%) 4 Most of it (96-99%)</p>					
NEXT	If BILLPG=1: LPGNONHSHLD Else if BILLFOIL=1: FONONHSHLD Else if BILLKER=1: KERONONHSHLD Else: SMARTMETER				
Derived		Show Card	Yes	CARI	

LPGNONHSHLD		<i>HowMuchBttldGas</i>			
ASK	If BILLPG=1				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. What portion of the propane bill is for non-household uses?</p> <p>0 Very little (1-4%) 1 Some (5-33%) 2 About half (34-66%) 3 About three-quarters (67-95%) 4 Most of it (96-99%)</p>					
NEXT	If BILLFOIL=1: FONONHSHLD Else if BILLKER=1: KERONONHSHLD Else: SMARTMETER				
Derived		Show Card	Yes	CARI	

FONONHSHLD		<i>HowMuchFO</i>			
ASK	If BILLFOIL=1				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. What portion of the fuel oil bill is for non-household uses?</p>					

0 Very little (1-4%) 1 Some (5-33%) 2 About half (34-66%) 3 About three-quarters (67-95%) 4 Most of it (96-99%)					
NEXT	If BILLKER=1: KERONONHSHLD Else: SMARTMETER				
Derived		Show Card	Yes	CARI	

KERONONHSHLD						HowMuchKero
ASK	If BILLKER=1					
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. What portion of the kerosene bill is for non-household uses?</p> 0 Very little (1-4%) 1 Some (5-33%) 2 About half (34-66%) 3 About three-quarters (67-95%) 4 Most of it (96-99%)						
NEXT	SMARTMETER					
Derived		Show Card	Yes	CARI		

SMARTMETER (New)						SMARTMETER
ASK	All respondents					
Do you have a "smart meter" that records your electricity usage in short time intervals, a standard electricity meter, or don't you know? 1 Yes 0 No						
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 if TYPEHUQ in(1,4,5): COMPLEXN Else: IVCOMMJFILTER					
Derived		Show Card		CARI	Yes	

INTDATA (New)						INTDATA
ASK	If SMARTMETER=1					
Does your household have access to hourly or daily electricity usage data recorded by your smart meter? 1 Yes 0 No						

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 if TYPEHUQ in(1,4,5): COMPLEXN Else: IVCOMMJFILTER				
Derived		Show Card		CARI	

INTDATAACC (New)		INTDATAACC			
ASK	If INTDATA=1				
Have you or any member of your household ever accessed or viewed this electricity usage data?					
1 Yes 0 No					
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 if TYPEHUQ in(1,4,5): COMPLEXN Else: IVCOMMJFILTER				
Derived		Show Card		CARI	

LLNAME (Changed from 2009)		NameofLandlord			
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)				
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?					
RECORD the name of the landlord here. If the respondent pays this fee to a company enter the company name in this field.					
Open response					
NEXT	LLSTREET				
Derived		Show Card		CARI	

LLSTREET (Changed from 2009)		LLStreet			
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)				
What is their street address?					
RECORD the landlord's street address here.					
Open response					
NEXT	LLCITY				
Derived		Show Card		CARI	

LLCITY (Changed from 2009)		LLCity		
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)		LLState		
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)		LLZipCode		
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)		LLAreaCode		
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	LLTELENUMBER			
Derived		Show Card		CARI

LLTELNUMBER (Changed from 2009)		LLTelNumber	
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		ComplexHaveName	
ASK	If 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		ComplexName	
ASK	If COMPLEXN=1		
<p>What is the name?</p> <p>Open response</p>			
NEXT	IVCOMMJFILTER		
Derived		Show Card	CARI

IVCOMMJFILTER		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		<i>IVerCommentsJ</i>			
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)		<i>SexOfHH</i>
ASK	All respondents	
<p>Now I have a few questions about the people living in this home.</p> <p>Please RECORD gender of respondent.</p> <p style="margin-left: 40px;">1 Female 2 Male</p>		
NEXT	HHAGE	
Derived		Show Card
CARI		

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

SPOUSE (Changed from 2009)		<i>MaritalStatus</i>
ASK	All respondents	
<p>Are you living with a spouse or partner?</p> <p style="margin-left: 40px;">1 Yes 0 No</p>		

NEXT	SDESCENT				
Derived		Show Card		CARI	

SDESCENT (Changed from 2009)			HispanicDescent		
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)			RacialOrigin		
ASK	All respondents				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. 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)			Education		
ASK	All respondents				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. What is the highest degree or level of school you have completed?</p> <p>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)</p>					

NEXT	NHSLDMEM				
Derived		Show Card	Yes	CARI	

NHSLDMEM (Changed from 2009)				NumInHH	
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)				AgeofHHMember2	
ASK	If NHSLDMEM>1				
<p>Other than yourself what is the age of the oldest 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				AgeOfHHMember3	
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				AgeOfHHMember4	
ASK	If NHSLDMEM>4				
<p>Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household,</p>					

what is the age of the next oldest person?					
For ages over 95, enter 95.					
1 - 95					
NEXT	If NHSLDMEM=5: AGEHHMEMY Else if NHSLDMEM>5: AGEHHMEM5 Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM5		<i>AgeOfHHMember5</i>			
ASK	If NHSLDMEM>5				
Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person?					
For ages over 95, enter 95.					
1 - 95					
NEXT	If NHSLDMEM=6: AGEHHMEMY Else if NHSLDMEM>6: AGEHHMEM6 Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM6		<i>AgeOfHHMember6</i>			
ASK	If NHSLDMEM>6				
Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person?					
For ages over 95, enter 95.					
1 - 95					
NEXT	If NHSLDMEM=7: AGEHHMEMY Else if NHSLDMEM>7: AGEHHMEM7 Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM7		<i>AgeOfHHMember7</i>			
ASK	If NHSLDMEM>7				
Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person?					
For ages over 95, enter 95.					
1 - 95					

NEXT	If NHSLDMEM=8: AGEHHMEMY Else if NHSLDMEM>8: AGEHHMEM8 Else: HBUSINESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM8		<i>AgeOfHHMember8</i>			
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: HBUSINESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM9		<i>AgeOfHHMember9</i>			
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: HBUSINESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM10		<i>AgeOfHHMember10</i>			
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		<i>AgeOfHHMember11</i>			
ASK	If NHSLDMEM>11				
Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person? For ages over 95, enter 95. 1 - 95					
NEXT	If NHSLDMEM=12: AGEHHMEMY Else if NHSLDMEM>12: AGEHHMEM12 Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM12		<i>AgeOfHHMember12</i>			
ASK	If NHSLDMEM>12				
Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person? For ages over 95, enter 95. 1 - 95					
NEXT	If NHSLDMEM=13: AGEHHMEMY Else if NHSLDMEM>13: AGEHHMEM13 Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM13		<i>AgeOfHHMember13</i>			
ASK	If NHSLDMEM>13				
Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person? For ages over 95, enter 95. 1 - 95					

NEXT	If NHSLDMEM=14: AGEHHMEMY Else if NHSLDMEM>14: AGEHHMEM14 Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM14		<i>AgeOfHHMember14</i>			
ASK	If NHSLDMEM>14				
Of the [NUMBER OF REMAINING HOUSEHOLD MEMBERS] remaining members of this household, what is the age of the next oldest person?					
For ages over 95, enter 95.					
1 - 95					
NEXT	If NHSLDMEM=15: AGEHHMEMY Else: HBUSNESS				
Derived	Yes	Show Card		CARI	

AGEHHMEM15					
ASK					
Derived					
1 - 95					
NEXT					
Derived	Yes	Show Card		CARI	

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

HBUSNESS		<i>HomeBaseBusiness</i>			
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 <i>J11FollowUp</i>	
ASK	If HBUSINESS=1
What kind of business or service is this? Open response	
NEXT	ATHOME
Derived	Show Card CARI

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

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

OTHWORK (Changed from 2009) <i>UnusualActivity</i>	
ASK	All respondents
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? 1 Yes 0 No	

NEXT	If OTHWORK=1: OTHACT Else: WORKPAY				
Derived		Show Card		CARI	

OTHACT <i>J14FollowUp</i>					
ASK	If OTHWORK=1				
<p>What is that activity?</p> <p>Open response</p>					
NEXT	WORKPAY				
Derived		Show Card		CARI	

WORKPAY (Changed from 2009) <i>PayForWork</i>					
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 <i>Retirement</i>					
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 <i>SSIncome</i>					
ASK	All respondents				
<p>Supplemental Security Income (SSI)</p> <p>1 Yes 0 No</p>					

NEXT	CASHBEN
Derived	Show Card CARI

CASHBEN <i>CashBenefits</i>	
ASK	All respondents
Welfare payments or cash assistance	
1 Yes 0 No	

NEXT	INVESTMT
Derived	Show Card CARI

INVESTMT <i>Investments</i>	
ASK	All respondents
Income from interest, dividends, rental properties, royalties, estates, or trusts	
1 Yes 0 No	

NEXT	RGLRPAY
Derived	Show Card CARI

RGLRPAY <i>RegularPay</i>	
ASK	All respondents
Any other regular sources of income such as Veterans' (VA) payments, survivor or disability pensions, unemployment compensation, child support, or alimony	
1 Yes 0 No	

NEXT	MONEYPY
Derived	Show Card CARI

MONEYPY (Changed from 2009) <i>HHIncome</i>	
ASK	All respondents
Place show card X in front of the respondent.	
Please look at Card X. 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 deduction	
1 Less than \$10,000 2 \$10,000 - \$19,999	

3	\$20,000 - \$29,999
4	\$30,000 to \$39,999
5	\$40,000 - \$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		<i>IVCOMMKFILTER</i>
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> <p>1 I have comments regarding the quality of data in this section 2 I do not have comments</p>		
NEXT	If IVCOMMKFILTER=1: IVCOMMK Else: Section L	
Derived		
Show Card		
CARI		

IVCOMMK		<i>IVerCommentsK</i>
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)		<i>EnergySecureA</i>
ASK	All respondents	
<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?</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)		<i>EnergySecureB</i>
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?</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)		<i>EnergySecureD1</i>
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?</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)		<i>PAYHELP</i>
ASK	If SCALEE in(1,2,3)	

When you received that notice, did your household apply for and receive home energy assistance to help pay your energy bill?				
1 Yes 0 No				
NEXT	NOHEATBROKE, NOHEATEL, NOHEATNG, NOHEATBULK			
Derived		Show Card		CARI

NOHEATBROKE, NOHEATEL, NOHEATNG, NOHEATBULK (New)		NOHEATBROKE, NOHEATEL, NOHEATNG, NOHEATBULK		
ASK	All respondents			
Place show card X in front of the respondent.				
Please look at Card X. 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?				
Mark all that apply.				
1 Your heating equipment was broken and you couldn't afford to pay for the repair or replacement 2 You couldn't pay for electricity and it was disconnected 3 You couldn't pay for natural gas and it was disconnected 4 You ran out of fuel oil, propane, kerosene, or wood because you couldn't afford a delivery 0 None of these happened				
NEXT	If NOHEATBROKE=1 OR NOHEATEL=1 OR NOHEATNG=1 OR NOHEATBULK=1: NOHEATDAYS; Else COLDMA			
Derived		Show Card	Yes	CARI

NOHEATDAYS (New)		NOHEATDAYS		
ASK	If NOHEATBROKE=1 OR NOHEATEL=1 OR NOHEATNG=1 OR NOHEATBULK=1			
About how many days was your household without heat?				
0-366				
NEXT	NOHEATHELP			
Derived		Show Card		CARI

NOHEATHELP (New)		NOHEATHELP		
ASK	If NOHEATBROKE=1 OR NOHEATEL=1 OR NOHEATNG=1 OR NOHEATBULK=1			
When that happened, did your household apply for and receive home energy assistance to help restore your heating?				
1 Yes 0 No				

NEXT	COLDMA				
Derived		Show Card		CARI	

COLDMA (Changed from 2009)		<i>MedicalAttnCold</i>			
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)		<i>NOACBROKE, NOACEL</i>			
ASK	All respondents				
<p>Place show card X in front of the respondent.</p> <p>Please look at Card X. 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>1 Your air conditioning equipment or other cooling equipment was broken and you couldn't afford to pay for the repair or replacement 2 You couldn't pay for electricity and it was disconnected 0 None of these happened</p>					
NEXT	If NOACBROKE=1 or NOACEL=1: NOACDAYS; Else HOTMA				
Derived		Show Card	Yes	CARI	

NOACDAYS (New)		<i>NOACDAYS</i>			
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>0-366</p>					

NEXT	NOACHELP				
Derived		Show Card		CARI	

NOACHELP (New)		<i>NOACHELP</i>			
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>					

1 Yes 0 No					
NEXT	HOTMA				
Derived		Show Card		CARI	

HOTMA (Changed from 2009)						<i>MedicalAttnH</i>
ASK	All respondents					
In the last year, did anyone in your household need medical attention because your home was too hot?						
1 Yes 0 No						
NEXT	SIGNFORM					
Derived		Show Card		CARI		

SIGNFORM (Changed from 2009)						<i>SIGNFORM</i>
ASK	All respondents					
This is the last 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?						
Interviewer Task: Give the authorization form to the respondent and record whether the respondent signed the form or not.						
1 Authorization form signed 0 Authorization form not signed						
NEXT	LANGUAGE					
Derived		Show Card		CARI	Yes	

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

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