2009 Residential Energy Consumption Survey
Form EIA-457C (2009)-Rental Agents, Landlords, and Apartment Managers Questionnaire
OMB No. 1905-0092, Expiring Month DD, 20YY

1

U.S. Department of Energy
Energy Information Administration

2009 Residential Energy Consumption Survey
Nationwide Survey on Household Energy Use

Rental Agents, Landlords, and
Apartment Managers Questionnaire

INTRODUCTION TO INTERVIEW

A tenant at ^HUBUILDADDRESS unit ^RAUNIT has provided some information about the energy use in their household in 2009. During this interview we will ask you questions about their energy use for verification. [If RAUNIT ≠ EMPTY], as well as a few questions about the entire building at ^HUBUILDADDRESS.

[PRELOAD HH UNIT NUMBER]: RAUNIT
[PRELOAD RA CASE ID]: SU_ID
[PRELOAD RA FIRST NAME]: RAFIRSTNAME
[PRELOAD RA LAST NAME]: RALASTNAME
[PRELOAD RA COMPANY NAME]: RACPLXNAME
[PRELOAD RA ADDRESS]: RAADDRESS
[PRELOAD RA CITY]: RACITY
[PRELOAD RA STATE]: RASTATE
[PRELOAD RA ZIP CODE]: RAZIP
[PRELOAD RA PHONE]: RAPHONENUMBER

2009 Residential Energy Consumption Survey
Form EIA-457C (2009)-Rental Agents, Landlords, and Apartment Managers Questionnaire
OMB No. 1905-0092, Expiring Month DD, 20YY

2

[PRELOAD HH BUILDING ADDRESS]: HUBUILDADDRESS
[PRELOAD HH CITY]: HCITY
[PRELOAD HH STATE]: HSTATE
[PRELOAD HH ZIP CODE]: HZIP

: Let's begin with some general questions about the building at ^HUBUILDADDRESS.
PRESS "enter" to continue.

1) RANUMFLRS
How many floors, or stories, are in this building? Do not include basements, parking levels, or attics.
Answer must be in the range from 1 up to 95: _____
SIGNAL [If RANUMFLRS > 50] **"I have recorded that this building has ^RANUMFLRS floors, which is unusually large. Is this number correct?"**

2) RANUMAPTS
How many separate housing units are in this building?
Answer must be in the range from 1 up to 995: _____
SIGNAL [If RANUMAPTS >300] **"I have recorded that there are ^RANUMAPTS units in this building. Is this number correct?"**
SIGNAL [If RANUMAPTS/RANUMFLRS > 50] **"I have recorded that there are ^RANUMFLRS floors and ^RANUMAPTS units in this building. That would mean that there are about ^RANUMAPTS/RANUMFLRS units per floor. Is this correct?"**
SIGNAL [If RANUMAPTS/RANUMFLRS < .2] **"I have recorded that there are ^RANUMFLRS floors and only ^RANUMAPTS units in this building. Is this correct?"**

3) RAYEARMADE
In what year was the building built?
Answer must be in the range from 1600 up to 2010: _____
SIGNAL [If RAYEARMADE < 1801] **"I have recorded that this building was built in ^RAYEARMADE. Is this correct?"**

4) [If RAYEARMADE = 2010] RATERMINATEA
I have recorded that the building at ^HUBUILDADDRESS was built in 2010. Is this correct?
1 Yes
0 No

[If RATERMINATEA = 1] RATERMINATEB

2009 Residential Energy Consumption Survey
Form EIA-457C (2009)-Rental Agents, Landlords, and Apartment Managers Questionnaire
OMB No. 1905-0092, Expiring Month DD, 20YY

3

Since this building was not ready for occupancy from January 1, 2009 to December 31, 2009, [If RAUNIT = EMPTY] **this housing unit** [If RAUNIT ≠ EMPTY] **unit ^RAUNIT** is not eligible for this survey. Thank you very much for your time and cooperation.

5) [If RAYEARMADE = DK or RF or RATERMINATEA = 0] RAYEARMADERANGE

Choosing from the following categories, please give your best estimate of when the building was built. Was it...

READ responses
1. Before 1950,
2. 1950-1959,
3. 1960-1969,
4. 1970-1979,
5. 1980-1989,
6. 1990-1999,
7. 2000-2004, or
8. 2005-2009?

6) [If RANUMAPTS > 2] RACOMMON

Please tell me which types of common areas are in this building? Does this building have a…

READ responses
MARK all that apply.
1. Lobby/Reception Area,
2. Commercial space, including stores or restaurants,
3. Apartment rental office or other large office space,
4. Laundry room,
5. Gym/Swimming pool/Sauna areas,or
6. Conference rooms or party space?
0. NONE of these types of areas

7) [If RANUMAPTS > 1 or RANUMAPTS = DK or RANUMAPTS = RF] RABLDSQFT

What is the total floor space in the building at ^HUBUILDADDRESS? Your best estimate is fine.

Answer must be in the range from 1 up to 9,999,999: _____

SIGNAL [If RABLDSQFT < 1000] **"I have recorded that this building is only ^RABLDSQFT square feet. This is quite a small building. Please confirm that you are including all of the floorspace in the building at ^HUBUILDADDRESS."**
SIGNAL [If RABLDSQFT > 50,000] **"I have recorded that this building is ^RABLDSQFT square feet. This is quite a large building. Please confirm if this is correct."**
SIGNAL [If RABLDSQFT/RANUMFLRS < 200] **"I have recorded that this building is ^RABLDSQFT square feet and has ^RANUMFLRS floors. That**

2009 Residential Energy Consumption Survey
Form EIA-457C (2009)-Rental Agents, Landlords, and Apartment Managers Questionnaire
OMB No. 1905-0092, Expiring Month DD, 20YY

4

would mean that the average floor is only ^RABLDSQFT/RANUMFLRS square feet. Please confirm if this is correct."

SIGNAL [If RABLDSQFT/RANUMAPTS < 100] **"I have recorded that this building is ^RABLDSQFT square feet and has ^RANUMAPTS units. That would mean that the average unit is only ^RABLDSQFT/RANUMAPTS square feet. Please confirm if this is correct."**

8) [If RABLDSQFT = DK or RF] RABLDSQFTCAT
Which of the following categories best describes the total floor space in this building? Is it...

READ responses
1. Fewer than 5,000 square feet,
2. 5,000 to 10,000,
3. 10,000 to 25,000,
4. 25,000 to 50,000,
5. 50,000 to 100,000, or
6. 100,000 or more square feet?

9) RASQFTEST
What is the total floorspace in [If RAUNIT = EMPTY] **this housing unit** [If RAUNIT ≠ EMPTY] **unit ^RAUNIT?** [If RAUNIT ≠ EMPTY] **Please consider only unit ^RAUNIT. Your best estimate is fine.**

Answer must be in the range from 1 up to 99,999: _____

SIGNAL [If RASQFTEST1 <= 100] **"I have recorded that** [If RAUNIT = EMPTY] **this housing unit** [If RAUNIT ≠ EMPTY] **unit ^RAUNIT is ^RASQFTEST square feet. This is quite a small home. Please confirm that you are including all living spaces within this unit."**

SIGNAL [If RASQFTEST > 5000] **"I have recorded that** [If RAUNIT = EMPTY] **this housing unit** [If RAUNIT ≠ EMPTY] **unit ^RAUNIT is ^RASQFTEST square feet. This is quite a large home. Please confirm if this is correct."**

HARD SIGNAL [If RASQFTEST > RABLDSQFT] "I have recorded that unit ^RAUNIT is ^RASQFTEST square feet and that the building in which it is located is only ^RABLDSQFT square feet. It is impossible for the entire building to be smaller than the unit. Please correct either the building or unit square footage."

HARD SIGNAL [If RASQFTEST = RABLDSQFT and RANUMAPTS > 1] "I have recorded that unit ^RAUNIT is ^RASQFTEST square feet and that the building in which it is located is also ^RABLDSQFT square feet. This is impossible since this building has more than one unit. Please correct either the building or unit square footage."

10) [If RASQFTEST = DK or RF] RASQFTCATEST
Which of the following categories best describes the total floorspace in [If RAUNIT = EMPTY] **this housing unit** [If RAUNIT ≠ EMPTY] **unit ^RAUNIT? Is it...**

READ responses
1. Fewer than 600 square feet,

2009 Residential Energy Consumption Survey
Form EIA-457C (2009)-Rental Agents, Landlords, and Apartment Managers Questionnaire
OMB No. 1905-0092, Expiring Month DD, 20YY

5

2. 600 to 999,
3. 1,000 to 1,599,
4. 1,600 to 1,999,
5. 2,000 to 2,399,
6. 2,400 to 2,999, or
7. 3,000 or more square feet**?**

RACOMMENTBLDG
RECORD any information here about the general characteristics of the unit or building that might provide clarification to the respondent's answers. if there are none, press "enter" to continue.

: **Now, I have some questions about the heating.** [If RAUNIT ≠ EMPTY]**, specifically in unit ^RAUNIT.**
PRESS "enter" to continue.

11) RAFUELHEAT
In 2009, what was the main fuel used for home space heating in [If RAUNIT = EMPTY] **this housing unit** [If RAUNIT ≠ EMPTY] **unit ^RAUNIT? That is, which fuel was the one that provided the most heat? Was it electricity, natural gas from underground pipes, propane (bottled gas), fuel oil, or some other fuel?**
1. Electricity,
2. Natural gas from underground pipes,
3. Propane (bottled gas), or
4. Fuel oil?
5. Kerosene (IF VOLUNTEERED)
6. Wood (IF VOLUNTEERED)
7. Solar (IF VOLUNTEERED)
8. District steam or hot water (IF VOLUNTEERED)
9. Some other fuel
0. No space heating fuel used

12) [If RAFUELHEAT = 21] RAFUELHEATSPEC
What was this other fuel?

13) [If RAFUELHEAT ≠ 0] RAEQUIPM
What was the main space heating equipment? Was it a...
READ responses

2009 Residential Energy Consumption Survey
Form EIA-457C (2009)-Rental Agents, Landlords, and Apartment Managers Questionnaire
OMB No. 1905-0092, Expiring Month DD, 20YY

6

1 Heat pump,
2 Central warm-air furnace,
3 Steam/Hot water system,
4 Built-in electric units in each room,
5 Built-in floor/wall pipeless furnace, or
6 Built-in room heater burning gas, oil, or kerosene?
7 Heating stove burning wood, coal, or coke (IF VOLUNTEERED)
8 Portable electric heaters (IF VOLUNTEERED)
9 Portable kerosene heaters (IF VOLUNTEERED)
10 Fireplace (IF VOLUNTEERED)
11 Cooking stove that is used to heat your home as well as to cook (IF VOLUNTEERED)
12 Some other equipment

14) [If RAEQUIPM = 21] RAEQUIPMSPEC
What was this other equipment?

_____

15) [If RAFUELHEAT ≠ 0] RAEQUIPAGE
Approximately how old was the [If RAFUELHEAT ≠ 21]**^RAFUELHEAT** [If RAFUELHEAT = 21]**^RAFUELHEATSPEC** [If RAEQUIPM ≠ 21]**^RAEQUIPM** [If RAEQUIPM = 21]**^RAEQUIPMSPEC? Was it…**
READ responses

1. Less than 2 years old
2. 2 to 4,
3. 5 to 9,
4. 10 to 14,
5. 15 to 19, or
6. 20 years or older?
7. As old as the home (IF VOLUNTEERED)

16) [If RAFUELHEAT ≠ 0] RAHEATOTH
Did the [If RAFUELHEAT ≠ 21]**^RAFUELHEAT** [If RAFUELHEAT = 21]**^RAFUELHEATSPEC** [If RAEQUIPM ≠ 21]**^RAEQUIPM** [If RAEQUIPM = 21]**^RAEQUIPMSPEC also heat any other apartments, condos, households, businesses, or buildings?**
1. Yes
0. No

[If RAFUELHEAT ≠ 0 and (NOT((RAFUELHEAT = DK or RAFUELHEAT = RF) and (RAEQUIPM = DK or RAEQUIPM = RF) and (RAEQUIPAGE = DK or RAEQUIPAGE = RF) and (RAHEATOTH = DK or RAHEATOTH = RF)))] RAHEATHOME = 1, **[Elseif RAFUELHEAT = 0]** RAHEATHOME = 0

2009 Residential Energy Consumption Survey
Form EIA-457C (2009)-Rental Agents, Landlords, and Apartment Managers Questionnaire
OMB No. 1905-0092, Expiring Month DD, 20YY

7

RACOMMENTHEAT
RECORD any information here about the heating system in the unit that might provide clarification to the respondent's answers. if there are none, press "enter" to continue.

: **Now, I have some questions about how water was heated in** [If RAUNIT = EMPTY] **this housing unit** [If RAUNIT ≠ EMPTY] **unit ^RAUNIT.**
PRESS "ENTER" TO CONTINUE.

17) RAFUELH2O
What was the main fuel used to heat water for washing and bathing in [If RAUNIT = EMPTY] **this housing unit** [If RAUNIT ≠ EMPTY] **unit ^RAUNIT?**
Was it electricity, natural gas from underground pipes, propane (bottled gas), fuel oil, or some other fuel?
1. Electricity
2. Natural gas from underground pipes
3. Propane (bottled gas)
4. Fuel oil
5. Kerosene (IF VOLUNTEERED)
6. Wood (IF VOLUNTEERED)
7. Solar (IF VOLUNTEERED)
9. Some other fuel
0. No water heating fuel used

18) [If RAFUELH2O = 21] RAFUELH2OSPEC
What was this other fuel?

19) [If RAFUELH2O ≠ 0] RAWHEATAGE
Approximately how old was the main water heater? Was it…
READ responses
1. Less than 2 years old
2. 2 to 4,
3. 5 to 9,
4. 10 to 14,
5. 15 to 19, or
6. 20 years or older?
7. As old as the home (IF VOLUNTEERED)

2009 Residential Energy Consumption Survey
Form EIA-457C (2009)-Rental Agents, Landlords, and Apartment Managers Questionnaire
OMB No. 1905-0092, Expiring Month DD, 20YY

8

RACOMMENTWATER
RECORD any information here about the water heating system in the unit that might provide clarification to the respondent's answers. if there are none, press "enter" to continue.

: **Now, I have some questions about the cooling in** [If RAUNIT = EMPTY] **this housing unit** [If RAUNIT ≠ EMPTY] **unit ^RAUNIT.**
PRESS "ENTER" TO CONTINUE.

20) RAAIRCOND
In 2009, did [If RAUNIT = EMPTY] **this housing unit** [If RAUNIT ≠ EMPTY] **unit ^RAUNIT use any air-conditioning?**
1 Yes
0 No

21) [If RAAIRCOND = 1] RACOOLTYPE
What type of air-conditioning equipment did [If RAUNIT = EMPTY] **this housing unit** [If RAUNIT ≠ EMPTY] **unit ^RAUNIT use? Was it…**
READ responses
1. A central system,
2. Individual units in the windows or wall, or
3. Both central and individual units?

22) [If RACOOLTYPE = 1 or 3] RAAGECENAC
Approximately how old was the central air-conditioning equipment? Was it…
READ responses
1. Less than 2 years old,
2. 2 to 4,
3. 5 to 9,
4. 10 to 14,
5. 15 to 19, or
6. 20 years or older?
7. As old as the home (IF VOLUNTEERED)

23) [If RACOOLTYPE = 2 or 3] RAWWACAGE
Approximately how old was the most-used window/wall unit? Was it…

2009 Residential Energy Consumption Survey
Form EIA-457C (2009)-Rental Agents, Landlords, and Apartment Managers Questionnaire
OMB No. 1905-0092, Expiring Month DD, 20YY

9

READ responses
8.   Less than 2 years old,
9.   2 to 4,
10. 5 to 9,
11. 10 to 14,
12. 15 to 19, or
13. 20 years or older?
14. As old as the home (IF VOLUNTEERED)

24) [If RACOOLTYPE = 1 or 3] RAACOTHERS
Did the central air-conditioner also cool any other apartments, condos, households, businesses, or buildings?
1. Yes
0. No

RACOMMENTCOOL
RECORD any information here about the cooling in the unit that might provide clarification to the respondent's answers. if there are none, press "enter" to continue..

: **Now, I have a few questions about the large kitchen appliances in** [If RAUNIT = EMPTY] **this housing unit** [If RAUNIT ≠ EMPTY] **unit ^RAUNIT.**
PRESS "enter" to continue.

25) RACOOKAPP
What type of cooking appliance did [If RAUNIT = EMPTY] **this housing unit** [If RAUNIT ≠ EMPTY] **unit ^RAUNIT have? Is it a stove that has both burners and one or two ovens, a separate built-in range top of burners only, or a separate built in oven only? Name all that apply.**
MARK all that apply.
1. A stove that has both burners and one or two ovens [RASTOVEN]
2. A separate built-in range top or burners only [RASTOVE]
3. A separate built-in oven only [RAOVEN]
0. NONE of these large cooking appliances [RANOCOOK]

[**If 1 IN RACOOKAPP**] RASTOVEN = 1 [**Else**] RASTOVEN = 0
[**If 2 IN RACOOKAPP**] RASTOVE = 1 [**Else**] RASTOVE = 0
[**If 3 IN RACOOKAPP**] RAOVEN = 1 [**Else**] RAOVEN = 0

2009 Residential Energy Consumption Survey
Form EIA-457C (2009)-Rental Agents, Landlords, and Apartment Managers Questionnaire
OMB No. 1905-0092, Expiring Month DD, 20YY

10

[If 0 IN RACOOKAPP] RANOCOOK = 1, RASTOVEN = 0, RASTOVE = 0, RAOVEN = 0 [Else] RANOCOOK = 0

26) [If 1 IN RACOOKAPP] RASTOVENFUEL
What fuel did the stove use? Was it…
READ responses

1. Electricity
2. Natural gas from underground pipes
3. Propane (bottled gas)
9. Some other fuel

27) [If RASTOVENFUEL = 21] RASTOVENFUELSPEC
What was this other fuel?

_____

28) [If 2 IN RACOOKAPP] RASTOVEFUEL
What fuel did the separate built-in range top or burners use? Was it…
READ responses
1. Electricity,
2. Natural gas from underground pipes,
3. Propane (bottled gas), or
9. Some other fuel?

29) [If RASTOVEFUEL = 21] RASTOVEFUELSPEC
What was this other fuel?

_____

30) [If 3 IN RACOOKAPP] RAOVENFUEL
What fuel did the separate oven use? Was it…
READ responses
1. Electricity
2. Natural gas from underground pipes
3. Propane (bottled gas)
9 Some other fuel

31) [If RAOVENFUEL = 21] RAOVENFUELSPEC
What was this other fuel?

_____

2009 Residential Energy Consumption Survey
Form EIA-457C (2009)-Rental Agents, Landlords, and Apartment Managers Questionnaire
OMB No. 1905-0092, Expiring Month DD, 20YY

11

[**If RACOOKAPP = 1 or 1,2 or 1,2,3**] RAFUELFOOD = RASTOVENFUEL [**Else If RACOOKAPP = 2**] RAFUELFOOD = RASTOVEFUEL [**Else (RACOOKAPP = 3, or 2,3)**] RAFUELFOOD = RAOVENFUEL

32) RATYPERFR

Which of the following best describes the refrigerator? If [If RAUNIT = EMPTY] **this housing unit** [If RAUNIT ≠ EMPTY] **unit ^RAUNIT had more than one refrigerator, please consider the main refrigerator. Was it…**
READ responses
1. Full-size with one door,
2. Full-size with two doors, freezer *next* to the refrigerator,
3. Full-size with two doors, freezer *above* the refrigerator,
4. Full-size with two doors, freezer *below* the refrigerator,
5. Full-size with three or more doors,
6. Half-size or compact, or
7. Some other kind?

33) RAAGERFRI

Approximately how old was the refrigerator? Your best estimate is fine. Was it…
READ responses
1. Less than 2 years old,
2. 2 to 4,
3. 5 to 9,
4. 10 to 14,
5. 15 to 19, or
6. 20 years or older?
7. As old as the home (IF VOLUNTEERED)

RACOMMENTAPP
RECORD any information here about the large
kitchen appliances in the unit that might provide clarification to the respondent's answers. if
there are none, press "enter" to continue.

: **We are now at the last section of our interview on** [If RAUNIT = EMPTY] **this housing unit.** [If RAUNIT ≠ EMPTY] **unit ^RAUNIT. I just have a few more questions left.**
PRESS "enter" to continue.

2009 Residential Energy Consumption Survey
Form EIA-457C (2009)-Rental Agents, Landlords, and Apartment Managers Questionnaire
OMB No. 1905-0092, Expiring Month DD, 20YY

12

34) [If RAFUELHEAT ≠ 0] RAFUELHEATPAY

In 2009, was the ^RAFUELHEAT used for heating in [If RAUNIT = EMPTY] **this housing unit** [If RAUNIT ≠ EMPTY] **unit ^RAUNIT paid for by the tenant, included in the rent or condominium fee, or paid some other way?**
>   1. Tenant
>   2. Included in the rent
>   3. Some other way

35) [If RAFUELHEATPAY = 3] RAFUELHEATPAYSPEC
What was this other way?

_____

[(**If RAHEATHOME ≠ 1 and RAHEATHOME ≠ 0) and (RAFUELHEATPAY ≠ DK and RAFUELHEATPAY ≠ RF**)] RAHEATHOME = 1

36) [If RAFUELH2O ≠ 0] RAFUELH2OPAY

In 2009, was the ^RAFUELH2O used for water heating paid for by the tenant, included in the rent or condominium fee, or paid some other way?
>   1. Tenant
>   2. Included in the rent
>   3. Some other way

37) [If RAFUELH2OPAY = 3] RAFUELH2OPAYSPEC
What was this other way?

_____

38) [If RAAIRCOND = 1] RACOOLPAY

In 2009, was the electricity used for air-conditioning paid for by the tenant, included in the rent or condominium fee, or paid some other way?
>   1. Tenant
>   2. Included in the rent
>   3. Some other way

39) [If RACOOLPAY = 3] RACOOLPAYSPEC
What was this other way?

40) [If RAFUELFOOD <> EMPTY] RAFUELFOODPAY

In 2009, was the ^RAFUELFOOD used for cooking paid for by the tenant, included in the rent or condominium fee, or paid some other way?
>   1. Tenant

2009 Residential Energy Consumption Survey
Form EIA-457C (2009)-Rental Agents, Landlords, and Apartment Managers Questionnaire
OMB No. 1905-0092, Expiring Month DD, 20YY

13

    2. Included in the rent
    3. Some other way

41) [If RAFUELFOOD = 3] RAFUELFOODPAYSPEC
    What was this other way?

_____

42) RALIGHTPAY
    In 2009, was the electricity used for lighting paid for by the tenant, included in the rent or condominium fee, or paid some other way?
    1. Tenant
    2. Included in the rent
    3. Some other way

43) [If RALIGHTPAY = 3] RALIGHTPAYSPEC
    What was this other way?

_____

RACOMMENTPAY
    RECORD any information here about how the bills are paid in the unit that might provide clarification to the respondent's answers. if there are none, press "enter" to continue.

[If RATERMINATEA = 1 OR RALIGHTPAY ≠ EMPTY]
LABEL: **That completes the interview.**
Thank you very much for your time and cooperation.
PRESS "enter" to exit the questionnaire.

EXITBLAISE
To successfully complete and save this interview and
    exit capi you must first enter your 6-digit field interviewer
    identification number and then press the "enter" key.