### **DF2: HOUSING UNIT INFORMATION SURVEY**

Thank you for your prompt response to this data request which is part of the ARRAperiod evaluation of the Weatherization Assistance Program. Evaluation results will provide essential feedback to the weatherization community and inform policymakers about the program's effects on clients' energy consumption, cost savings, and non-energy benefits.

This data form collects detailed information about homes weatherized by your agency in Program Year 2010. The information you supply will be used with billing history data to better understand energy savings attributable to the Weatherization Assistance Program under ARRA.

Please use this form (DF2) to provide information about any single family detached and attached houses, mobile homes, or individual units within multi-family buildings. The Building Information Survey (DF3) should be used to document information on small or large multifamily buildings in which the whole building and all units in the building were weatherized or are waitlisted. Refer to the definitions of each building type provided at the end of the survey because these definitions are slightly different than those commonly used within the Weatherization Assistance Program.

All of the information obtained from this survey will be protected and will remain confidential. The data will be analyzed in such a way that the information provided cannot be associated back to your state, your agencies, or the housing units and clients that your state served.

Thank you in advance for completing this survey.

Public reporting burden for this collection of information is estimated to average twenty hours per weatherization agency, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Office of the Chief Information Officer, Records Management Division, IM-11, Paperwork Reduction Project (\_\_\_\_\_\_), U.S. Department of Energy, 1000 Independence Ave SW, Washington, DC, 20585-1290; and to the Office of Management and Budget (OMB), OIRA, Paperwork Reduction Project (\_\_\_\_\_\_), Washington, DC 20503.

Form completed by:	Date:
IDENTIFICATION	
[Q1-5 will be pre-completed by the evaluation tear	n]
1. Agency name:	
2. State:	
3. Agency job number:	
4. Occupant name:	
5a. Site address:	5b. City:
WEATHERIZATION INFORMATION	
Weatherization dates (not audit or inspection dates 6a. Started:	, 
6b. Completed: (month) (day)	(year)
The start date is the first date that weatherization weatherization start date is not the date the audit energy efficiency improvements were made at the cost measures such as light bulbs and showe improvements, and if any of those are implement is the audi	or home assessment was conducted UNLESS e time of the audit. Client education and low- rheads ARE considered energy efficiency ted at the time of the audit, then the start date
The end date is the last date that weatherizati including any rework required after agency or sta	ate-level post-weatherization inspections. The

date of the post-inspection should NOT be used as the weatherization end date unless the postinspection was conducted on the last day that improvements were made to the home and no rework was required.

7. Was this a "reweatherized" unit? (check only one)

□ Yes □ No

Don't know

Check "yes" if the home was weatherized prior to PY 2010.

8. Did this client file a complaint about the weatherization services you provided? *(check only* 

*one)* [] Yes

🛛 No

Don't know

### HOUSING UNIT

9. Building type – see definitions at the end of the survey: *(check only one)* 

Single-family detached house

Single-family attached house (e.g., side-by-side duplex, townhouse, row house)

Single-family – unknown whether attached or detached

☐ Mobile home

Small multifamily building (2-4 units per building and not a SF attached house)

Large multifamily building (5 or more units per building and not a SF attached house)

□ Shelter

Don't know

10. Number of stories above grade: (check only one)

1
2
3
4 or more Don't know
Not applicable

Please list the number of stories above ground-level. If there are half-stories, round up to the nearest whole number. For example, please check "2" for a 1.5-story split-level house.

11. If single-family attached, number of units attached (adjacent) to this unit: (check only one)

<u>1</u>

2 🗌

3

4 or more

- Don't know
- □ Not applicable

For single family attached homes, please list the number of separate housing units that share at least one wall with this housing unit. For example, check "2" if housing unit is a row house with homes on either side. Check "1" for a side-by-side duplex. 12. If mobile home, number of rooms that have been added on: (check only one)

- 🛛 None
- $\Box 1$
- 2
- 3 🗌
- 4 or more
- Don't know
- □ Not applicable

13. If small or large multifamily building, number of units in the building: (check only one)

- 2 🗌
- ] 3
- 4
- 5-9
- 010-19
- 20-29
- 30-49
- 50-99
- [] 100 or more
- Don't know
- Not applicable

14. Year house/building originally built: (check only one)

2000 or later
1990 to 1999
1980 to 1989
1970 to 1979
1960 to 1969
1950 to 1959
1950 to 1959
1940 to 1949
1930 to 1939
1920 to 1929
1910 to 1919
1900 to 1909
Before 1900
Don't know

Conditioned floor area at the time of weatherization:

15b. Air conditioned floor area: \_\_\_\_\_ft<sup>2</sup> Don't know

*Include the basement only if it is intentionally conditioned (heated and/or cooled).* 

If you only know the total square footage of the home, please select "don't know" rather than listing the total square footage.

- 16. Primary fuel used to heat the unit during the winter before weatherization: *(check only one)* 
  - Electricity
    Natural gas
    Propane/LPG
    Fuel oil
    Wood
    Other (specify: \_\_\_\_\_)
    Don't know
- 17. Primary fuel used for water heating before weatherization: *(check only one)* 
  - Natural gas Propane/LPG Electricity Other (specify: \_\_\_\_\_) Don't know
- 18. Type of *primary* space-heating system before weatherization: *(check only one)* 
  - Central (ducted) warm-air furnace (forced-air or gravity, any fuel including electricity)
     Heat pump
  - Built-in electric units (e.g., electric baseboards, ceiling heat)
  - Steam or hot water system (e.g., floor or baseboard radiators, convectors)
  - [] Floor, wall, or pipeless (ductless) furnace (e.g., floor or wall furnace)
  - Room/space heater (nonportable)
  - Portable space heater
  - ☐ Cooking stove
  - 🛛 None
  - Don't know

Select "steam or hot water system" for homes heated with boilers.

19. If small or large multifamily building, was the primary space-heating system shared with other housing units? *(check only one)* 

🛛 Yes

🛛 No

Don't know

□ Not applicable

20. *Supplemental* fuel(s) used to heat the unit during the winter before weatherization: *(check all that apply)* 

Electricity
Natural gas
Propane/LPG
Fuel oil
Wood
Other (specify: \_\_\_\_\_)
Don't know

21. Type of *operable* air conditioning system present before weatherization: *(check all that apply)* 

Central air conditioner/heat pump
Window/wall units
Evaporative cooling system ("swamp coolers")
None
Don't know

22. Number of window/wall air conditioning units: (check only one)

🛛 None

1

2

3 🗌

4 or more

Don't know

### AUDIT

29. Primary method used to select weatherization measures for this house (excluding health, safety, and repair measures and general heat waste measures): *(check only one)* 

Priority list

Calculation procedure (e.g., spreadsheet, computerized audit)

Other (specify: \_\_\_\_\_)

30. If a calculation procedure was used, the name of the procedure(s): *(check all that apply)* 

AK Warm
EA-3
EASY
EA-QUIP
HomeCheck
Meadows
REES
REM/Rate
SMOC-ERS
TIPS
TREAT
Weatherization Assistant (NEAT/MHEA)
WXEOR
Other (specify: \_\_\_\_\_)
Not applicable

## DIAGNOSTICS AND INSPECTIONS

If you know when a diagnostic/inspection procedure was performed, please check the appropriate box(es) in the first three response columns. If a diagnostic/inspection procedure was performed but you do not know when, please check the box in the "Performed?" column.

Diagnostic measurement or inspection	Diagnostic/inspection performed during:				
	Audit/house	Measure	Post-	Performed?	
Descent discourse (income	assessment	installation	inspection		
Pressure diagnostics:					
31a. House air leakage (blower door measurement)					
31b. Zonal pressure					
31c. Room-to-room pressures (distribution system balancing)					
31d. Duct pressure pan measurements					
31e. Duct blower measurement (duct air leakage rate)					
31f. Blower door subtraction meas. (duct air leakage rate)					
Space-heating system:					
32a. Flue gas analysis (steady-state efficiency measurement)					
32b. Heat rise					
32c. CO level in flue					
32d. CO level of equipment room					
32e. Draft/spillage (normal operation)					
32f. Worst case draft/spillage (CAZ)					
32g. Safety inspection					
Air-conditioning system:					
33a. Refrigerant charge (e.g., superheat or subcooling)					
33b. Safety inspection					
HVAC components:					
34a. Air handler flow rate					
34b. Thermostat anticipator current					
Hot-water (water-heating) system:					

Diagnostic measurement or inspection		spection perfor			
	Audit/house	Measure	Post-	Performed?	
	assessment	installation	inspection		
35a. Flue gas analysis (steady-state efficiency					
measurement)					
35b. CO level in flue				•	
35c. CO level of equipment room					
35d. Draft/spillage (normal operation)					
35e. Worst case draft/spillage (CAZ)				D	
35f. Hot water temperature					
35g. Shower head flow rate				D	
35h. Faucet flow rate					
35i. Safety inspection					
Other CO measurements:					
36a. Cook stove					
36b. Kitchen				D	
36c. Main living area					
Other diagnostics and inspections:					
37a. Refrigerator energy use				•	
37b. Exhaust fan air flow rate					
37c. Infrared scanning (camera)					
37d. Radon testing				D	
37e. Other (specify:	) 🛛			D	
37f. Other (specify:	) 🛛	•		•	
37g. Other (specify:	) 🗆				

Record the diagnostic measurements taken on THIS housing unit: (fill in all that were taken)

Diagnostic measurement	Pre- weatherization	Post weatherization
House air leakage (blower door measurement):		
38a. Air leakage rate	cfm	cfm
38b. House WRT outside pressure difference <sup>1</sup>	Pa	Ра
Duct leakage (pressure pan measurements):		
39a. Sum of pressure pan readings <sup>2</sup>	Ра	Pa
39b. Number of registers included in sum <sup>3</sup>		
39c. House WRT outside pressure difference <sup>4</sup>	Pa	Ра
Duct leakage (duct blower measurements) <sup>5</sup> :		
40a. Total duct leakage rate	cfm	cfm
40b. Duct leakage to the outside	cfm	cfm
40c. Duct WRT outside pressure difference <sup>6</sup>	Ра	Ра
Steady-state efficiency (flue gas analysis):		
41a. Primary space-heating system	%	%
41b. Secondary space-heating system	%	%
41c. Hot water heater	%	%

For diagnostics that were performed multiple times, please provide the measurements that are closest to the pre-weatherization and post-weatherization conditions of the home.

<sup>&</sup>lt;sup>1</sup> Report the pressure differential at which the blower door test was performed. A typical value is 50 Pascals. Do not report baseline pressure (typically less than 5 Pascals).

<sup>&</sup>lt;sup>2</sup> Total all of the individual measurements taken at registers in the home. The value for each register should be between 0 and 50 Pascals.

<sup>&</sup>lt;sup>3</sup> Total the number of registers at which the test was performed.

<sup>&</sup>lt;sup>4</sup> Report the pressure differential at which the test was performed (from blower door). A typical value is 50 Pascals.

<sup>&</sup>lt;sup>5</sup> If total duct leakage (inside the home and to the outside) was measured with a Duct Blaster<sup>™</sup> or similar equipment, report results in 40a. If duct leakage to the outside was measured, report this result in 40b. Most agencies will report results in "a" or "b," but not both.

<sup>&</sup>lt;sup>6</sup> Report the house-to-outside pressure differential (from blower door) at which the leakage-to-outside test was performed. A typical value is 25 Pascals.

#### **MEASURES INSTALLED**

If you know whether in-house crew or a contractor installed a given measure, please check the appropriate box in the first two response columns. If a measure was installed but you do not know whether it was installed by in-house crew or a contractor, please check the box in the "Installed?" column.

Measure	Installed by		
	In-house crew	Contractor	Installed?
Air sealing work:			
42a. General house caulking and weatherstripping (e.g., doors, windows)			
42b. Air sealing emphasizing bypasses (leaks identified by auditor and/or crew <b>without using a blower door</b> )			
42c. Air sealing emphasizing bypasses (leaks identified by auditor and/or crew <b>with aid of a blower door</b> )			
42d. Air distribution system (duct) sealing or repair <sup>7</sup>			
42e. Repairs to broken windows, doors, or other major holes in the building shell			
42f. Other non-window air sealing work (specify:)			
42g. Other non-window air sealing work (specify:)			
Insulation:			
43a. Attic insulation			
If attic insulation was installed, please provide quantity: 43bsquare feet or 43cpounds			
43d. What was the R value of attic insulation prior to weatheri (Leave blank if unknown. Enter 0 if there was no existing			
43e. Wall insulation		D	
If wall insulation was installed, please provide quantity: 43fsquare feet or 43gpounds	1		
43h. Floor insulation <sup>8</sup>			
43i. Rim or band joist insulation (sill box)			
43j. Foundation wall insulation		D	
43k. Duct insulation			

<sup>&</sup>lt;sup>7</sup> Check 42d if duct sealing or duct repair was performed. Check 46d if new ductwork was installed. Check 49c if new vents, grills or registers were installed.

<sup>&</sup>lt;sup>8</sup> Exclude mobile home belly insulation, which should be listed under 430.

Measure	Insta		
	In-house crew	Contractor	Installed?
431. White roof coat applied to mobile home			
43m. Mobile home skirting			
43n. Mobile home belly insulation			
43o. Other insulation (specify:)			
43p. Other insulation (specify:)			
Windows:			
44a. New window (justified because cost effective)	0	0	
44b. New window (justified for reason other than cost effectiveness)			
44c. If new windows were installed, please provide quantity:	_		
44d. Window glass repair or replacement not included under air sealing major holes in building shell (42e)	D		
44e. Repair of window sashes or frames			
44f. Window screen repair/replacement			
44g. Window lock replacement			
44h. Storm window installed			
44i. Window shading (e.g., awning, film, sun screen)			
44j. Other window treatments (specify:)			
44k. Other window treatments (specify:)			
Doors:			
45a. New door (justified because cost effective)			
45b. New door (justified for reason other than cost effectiveness)			
45c. Door lock (new or replacement)			
45d. Door or door framing repair not included under air sealing major holes in building shell (42e)			
45e. Storm door installed			
45f. Other door treatments (specify:)			
45g. Other door treatments (specify: )			
Central space heating systems (e.g., furnaces, boilers): <sup>9</sup>			

<sup>&</sup>lt;sup>9</sup> Include central heating systems installed through programs other than WAP, such as emergency heating system replacements funded by LIHEAP.

Measure	Insta	lled by		
	In-house crew	Contractor	Installed?	
46a. New heating system (justified because cost effective)				
46b. New heating system (justified for reason other than cost effectiveness)				
46c. Space-heating system repair (e.g., controls, safety items, flues)				
46d. New ductwork installed				
46e. Space-heating system tune-up				
46f. Vent damper installed				
46g. Intermittent ignition device installed				
46h. Other heating system modification (specify:) <sup>10</sup>				
46i. Other heating system modification (specify:)				
Air-conditioning systems:				
47a. New air conditioner (justified because cost effective)				
· · · · · · · · · · · · · · · · · · ·				
47b. New air conditioner (justified for reason other than cost effectiveness)				
47c. Air conditioner repair				
47d. Air conditioner recharge/tune-up				
47e. Ceiling or whole-house fans				
47f. Other air-conditioning system modification (specify:)				
47g. Other air-conditioning system modification (specify:)				
Ventilation:				
48a. New bathroom exhaust fan installed				
48b. New kitchen exhaust fan installed				
48c. Repair to kitchen or bathroom exhaust fan (including ductwork)				
48d. Whole-house ventilation system				
48f. Other ventilation system improvements (specify:)				
48g. Other ventilation system improvements (specify:)				

<sup>&</sup>lt;sup>10</sup> Check 42d if duct sealing or duct repair was performed. Check 46d if new ductwork was installed. Check 49c if new vents, grills or registers were installed.

Measure	Installed by		
	In-house crew	Contractor	Installed?
HVAC accessories:			
49a. New programmable (setback) thermostat			
49b. New standard thermostat			
49c. New duct vents, grills, or registers installed <sup>11</sup>			
49d. Standard air filter installed			
49e. High efficiency particulate arresting (HEPA) air filter installed			
49f. Other HVAC accessories (specify:)			
49g. Other HVAC accessories (specify:)			
Water-heating system:			
50a. New water heater (justified because cost effective)			
50b. New water heater (justified for reason other than cost			
effectiveness) 50c. Water-heating system repair			
50d. Water-heater tank insulation wrap			
50e. Pipe insulation			
50f. Installed low-flow showerhead			
50g. Installed low-flow device on faucet (aerator)			
50h. Water heater temperature reduction			
50i. Other water heating system measure (specify:)			
50j. Other water heating system measure (specify:)	D		
Other baseloads:			
51a. Indoor lighting (energy efficient bulb or fixture)			
51b. Outdoor lighting (energy efficient bulb or fixture)			
51c. Lighting (indoor/outdoor location not recorded)			
51d. Refrigerator (justified because cost effective)			
51e. Refrigerator (justified for reason other than cost effectiveness)			
51f. If new refrigerator is installed, how many old refrigerators were removed?			
51g. If new refrigerator is installed, how many stand-along freezers			

<sup>11</sup> Check 42d if duct sealing OR duct repair was performed. Check 46d if new ductwork was installed.

Measure	Inst	Installed by	
	In-house crew	Contractor	Installed?
were removed?			
51h. Other baseload measure (specify:	) 🗆		
51i. Other baseload measure (specify:	) 🛛		
Health and safety and repair:			
52a. Smoke alarm			
52b. CO monitor			
52c. Attic ventilation			
52d. Roof repair			
48e. Clothes dryer vent repair or replacement			0
52f. Ceiling repair			0
52g. Wall repair			
52h. Floor repair			
52i. Foundation repair			
52j. Ground vapor barrier			
52k. Gutter or downspout (installed or repaired)		0	
521. Grading of lot			
52m. Plumbing repair			
52n. Sewer repair			
520. Electrical repair		0	
52p. Stair repair			
52q. Install/repair non-skid material on stairs	-	-	-
52r. Install/repair safety gate at stairs	<b>•</b>	-	-
52s. Install/repair grab bar in bathroom	Ŧ	<del>.</del>	-
52t. Install/repair non-skid material in bathtub	<b>-</b>	-	-
52u. Install/repair metal chimney liner			
52v. Lead abatement			-
52w. Asbestos abatement			
52x. Removal or safe storage of household poisons			-
52y. Other health and safety/repair items (specify:)			

Measure	Installed by			
	In-house crew	Contractor	Installed?	
52z. Other health and safety/repair items (specify:)				
Client education:				
53a. Did the occupants receive an in-home visit in which energy		Yes	•	
education was provided?		No		
1		Don't know		
53b. Did the occupants participate in a classroom training in which		Yes		
energy education was provided?		No		
с, <u>г</u>		Don't know		

## SERC Addendum

Identify the SERC measures that were installed on **THIS** housing unit: (*check all that apply*)

Measure	In		
	In-house crew	Contractor	Installed?
RENEWABLE ENERGY			
S1.1 Solar PV			
S1.2 PV: Shingles			
S1.3 Wind: Small-scale Residential			
S1.4 Passive Solar Panel			
HOT WATER SYSTEMS			
S2.1 Solar HW			
S2.2 Tankless/On-demand HW			
S2.3 Condensing HW			
S2.4 Heat Pump/Hybrid HW			
S2.5 Combination HW and Boiler			
S2.6 Other hot water			
HVAC SYSTEMS			
S3.1 Heat Pumps: Geothermal/Ground-Source			
S3.2 Heat Pumps: Air			
S3.3 Heat Pumps: Mini Split System Ductless			
S3.4 Replacement of Improperly Sized HVAC			
Equipment			
S3.5 Solar Thermal (Home Heat)			
S3.6 Wood Pellet Stoves			
S3.7 Ultra Cooling Systems			
S3.8 Central AC Units			
S3.9 Window AC Units			
S3.10 Micro-combined Heat and Power			
S3.11 High-efficiency Furnaces			

	 1	1
S3.12 Heat Recovery Ventilators		
S3.13 Biomass Thermal Units Installed		
S3.14 Evaporative Cooling System		
S3.15 Vented Space Heating		
S3.16 Solar Powered Attic Ventilation		
S3.17 Energy Recovery Ventilator		
ROOFING: COOL ROOF		
S4.1 Roofing: Cool Roof Technology Installed		
APPLIANCES		
S5.1 Energy Star Clothes Washer		
S5.2 Energy-Efficient Clothes Dryer		
S5.3 Energy-Efficient Refrigerator		
S5.4 Appliance Energy Meters		
INSULATION		
S6.1 Insulation: Aerogel/super		
S6.2 Insulation: Foam Injection Technology		
S6.3 Insulation: Masonry Foam		
S6.4 Insulation: Radiant Barrier Attic		
S6.5 Insulate: Spray Foam		
S6.6 Insulation: Reflective Attic Insulation		
WHOLE-HOUSE RETROFIT		
S7.1 Centralized Building Controls		
S7.2 Deep Energy Retrofits		
S7.3 High-Performance Space Conditioning Retrofits		
S7.4 High-Performance Building Envelope Retrofits		
S7.5 Cold Energy Retrofits		
S7.6 Warm Energy Retrofits		
S7.7 Foundation Improvements		
OUTREACH		
S8.1 Home Energy Saver Workshops		
S8.2 Households Touched by Behavioral Change		
Message		
EQUIPMENT		
S9.1 Monitoring: In-Home Energy Monitors		
OTHER		
S10.1 Units with Window Upgrades		
S10.2 Outdoor Solar Security Lighting		
S10.3 Ceiling Fans		
S10.4 LED Lights		
S10.5 Energy Star Doors		

54. If a new space-heating system was installed, indicate the primary fuel used to heat the unit during the winter after weatherization: *(check only one)* 

Natural gas
Propane/LPG
Kerosene (#1 fuel oil)
Fuel oil (#2 fuel oil)
Electricity
Wood
Coal
Other (specify: \_\_\_\_\_)
Don't know
Not applicable

55. If a new space-heating system was installed, indicate the type of *primary* space-heating system after weatherization: *(check only one)* 

Central (ducted) warm-air furnace (forced-air or gravity, any fuel including electricity)

🛛 Heat pump

Built-in electric units (e.g., electric baseboards, ceiling heat)

Steam or hot water system (e.g., floor or baseboard radiators, convectors)

Floor, wall, or pipeless (ductless) furnace (e.g., floor or wall furnace)

Room/space heater (nonportable)

Portable space heater

Cooking stove

🛛 None

Other (specify: \_\_\_\_\_)

Don't know

□ Not applicable

Select "steam or hot water system" for homes heated with boilers.

56. If a new space-heating system was installed and justified for reasons other than cost effectiveness, identify the reason it was replaced: *(check all that apply)* 

Cost of repair/retrofit exceeded 50% of replacement cost

Existing heating system was not running

Existing heating system was old (e.g., at end of life, too old to be repaired/adjusted)

To switch fuel

[] To convert from a steam system to a hot water system

Heat exchanger was cracked

Boiler was leaking

Safety switches/controls were not operational and could not be repaired

To replace unvented space heater(s)

Existing heating system was not safe to run for other reason (specify:

Other (specify: \_\_\_\_\_

57. Please identify any cost-effective energy-efficiency measures (not repair or health and safety measures) recommended by your energy audit procedures that you were unable to install in this housing unit because of insufficient funds: *(check all that apply)* 

☐ Air sealing
Duct sealing
Attic insulation
□ Wall insulation
☐ Floor/foundation insulation
Duct insulation
□ New window(s)
Storm windows(s)
Door(s)
Storm door(s)
New space-heating system
Space-heating system tune-up
New air conditioner(s)
Air conditioner tune-up(s)
HVAC thermostat
New water heater
Water heater insulation wrap
□ Water flow devices (e.g., showerheads, faucet aerators)
Lighting
Refrigerator
Other:
🗌 None

## This question only applies in states where there is a per-home spending limit. If there is not a per-home spending limit in your state, check "none."

58. If energy efficiency measures were checked in the previous question, provide a rough estimate of the cost for installing all the measures checked:

59. Please identify any repair or health and safety measures recommended by your audit procedures that you were unable to install in this housing unit because of insufficient funds: *(check all that apply)* 

New window(s)
Window glazing(s)
Window screen(s)
Window lock(s)
Window repair
New door(s)
Door lock(s)
Door repair
New space-heating system
Space-heating system repair

New air conditioner(s)
Air conditioner repair
Ceiling or whole-house fan(s)
Exhaust fan(s) or ventilation system
New water heater
Water-heating system repair
□ Refrigerator
Smoke alarm
CO monitor
Attic ventilation
Roof, wall, floor, or foundation repair
Plumbing/sewer repair
Electrical repair
Other:
🗌 None

## This question only applies in states where there is a per-home spending limit. If there is not a per-home spending limit in your state, check "none."

60. If repair or health and safety measures were checked in the previous question, provide a rough estimate of the cost for installing all the measures checked: **\$\_\_\_\_\_** 

## COSTS

61. Provide the total cost of weatherizing this housing unit. Include **ALL** sources of funding. Do **NOT** include program management costs (e.g., intake, audits, final inspections or program administration) or installation-related overhead costs (e.g., vehicles, equipment and training).



62. Divide the total costs spent on this housing unit (from Question 61) into the categories below.

62a. Material costs	
62b. Labor costs	
62c. Enter total job cost if above categories are not known	
62d. Total (should match Q61 total)	[Auto-tally]

63. Divide the labor costs (from Question 62) into the categories below. If labor costs for inhouse crew are not tracked at the job level please leave 63a blank.

63a. In house crew labor <sup>1</sup>	63a. In house crew labor <sup>1</sup>	
---------------------------------------	---------------------------------------	--

63b. Contractor labor	
63c. Profit/overhead <sup>2</sup>	
63d. Enter total labor costs if above categories are not known	
63e. Total (should match Q62 total)	[Auto-tally]
<sup>1</sup> Crew-based labor costs should be based on the crew's fully loaded hourly rate (rather than the crew's take-home pay rate) which may include costs associated with medical and other insurance, workers	

compensation, vacations, and other benefits. These labor costs should include the crew's time for traveling to and from the job site.

<sup>2</sup>If contractor profit and overhead are included in the contractor's material and labor costs, then leave 63b blank.

64. Provide estimates of non-monetary contributions to this weatherization job.

64a. Volunteer Hours <sup>1</sup>	
64b. Apprentice Hours <sup>2</sup>	
64c. Estimated Value of Material In-Kind Contributions	
64d. Estimated Value of Other In-Kind Contributions	
<sup>1</sup> An example of a volunteer is an unpaid person working on weatherizing a Habitat for Humanity Home. <sup>2</sup> An example of an apprentice would be a student whose program of education requires hands-on, real-life work on weatherization jobs.	

65. Divide the total costs spent on this housing unit (from Question 61) into the categories below.

65a. Cost effective energy-related measures (SIR > 1.0)	
65b. Health and safety and other non-cost effective measures	
65c. Incidental repairs	
65d. Enter total job cost if above categories are not known	
65e. Total (should match Q61 total)	[Auto-tally]

66. Divide the total costs spent on this housing unit (from Question 61) into these funding source categories below.

66a. DOE-Normal Appropriation/Formula WAP funds	
66b. DOE SERC Funds	
66c. DOE WIPP Funds	
66d. Non-DOE (leveraged) funds	
66e. Total (should match Q61 total)	[Auto-tally]

# Energy Assistance Program (LI-EAP) funding should be considered Non-DOE funds if it is tracked separately.

67. Provide the amounts spent on the major measure categories below.

67a. HVAC measures	
67b. Water heating measures	
67c. Replacement windows and doors	
67d. All other building shell measures (insulation, air sealing, etc.)	

Single Family Detached – House that provides living space for one family or household, is contained within walls that go from the basement (or the ground floor, if there is no basement) to the roof, and has no walls that are shared (or built in contact) with another household. A manufactured house assembled on site is a single family detached housing unit, not a mobile home.

Single Family Attached – House that provides living space for one household, is contained within walls that go from the basement (or the ground floor, if there is no basement) to the roof, has at least one wall that is shared (or built in contact) with an adjacent household, and has an independent outside entrance. An attached house does not have any other households living above or below, and does not share basement or attic space with other housing units. Also, an attached house does not share a heating or cooling system with any other housing units. Examples include row houses, townhouses, condominiums and side-by-side duplexes that do not have shared attics, basements or HVAC equipment.

Small Multi-family (2-4 units) – Building with two to four housing units (i.e., building that is divided into living quarters for two, three, or four families or households) in which one household lives above or beside another and does not meet the single family attached house definition. Includes houses originally intended for occupancy by one family (or for some other use) that have since been converted to separate dwellings for two to four families. Typical arrangements in these types of living quarters are separate apartments downstairs and upstairs or one apartment on each of three or four floors.

Large multifamily (5 or More Units per Building) – Building with five or more housing units (i.e., building that contains living quarters for five or more families or households) that does not meet the single family attached house definition.

Mobile Home – Home that is built on a movable chassis, is moved to the site, and may be placed on a permanent or temporary foundation. If rooms are added to the structure, it is considered a mobile home if the added floor area is less than the mobile home's original floor area; otherwise, it is a single family detached house. A manufactured house assembled on site is a single family detached house, not a mobile home.

Shelter - Structure whose principal purpose is to house individuals on a temporary basis who may or may not be related to one another and who are not living in nursing homes, prisons, or similar institutional care facilities.