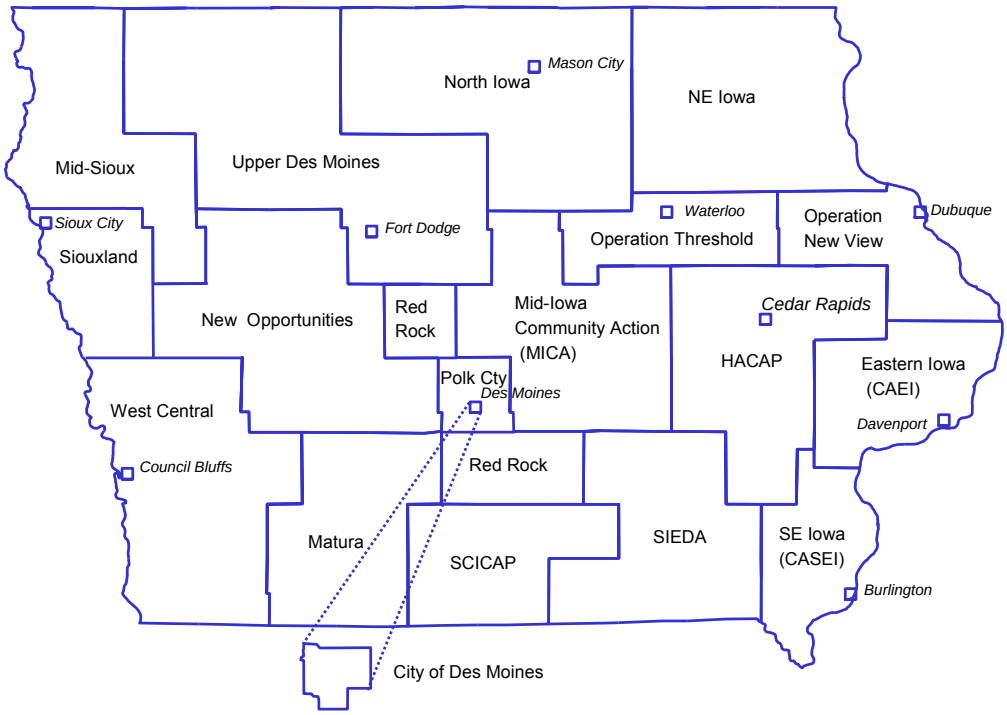
REPORT ON THE IMPACTS AND COSTS OF THE IOWA LOW-INCOME WEATHERIZATION PROGRAM -- Calendar Year 2013

Final

April 30, 2015

Iowa Local Weatherization Agencies



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Prepared for the

Iowa Statewide Low-Income Collaborative

by

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EXECUTIVE SUMMARY

This report summarizes the state and utility low-income weatherization program activity for low-income dwellings weatherized to completion in Iowa during calendar year 2013 through the Iowa Weatherization Assistance Program. The report includes state, utility, and agency summaries of spending and impacts by measure, end-use, and fuel type. The base data consists of statewide program tracking databases of spending and measure installations maintained by the Iowa Division of Community Action Agencies. Fuel consumption histories were provided by the three co-funding utilities, including by Black Hills Energy, Interstate Power and Light Company, and MidAmerican Energy.

We estimated energy and coincident demand impacts for the program participants by using algorithms developed as part of the study of the calendar year 2007 program[1]. The estimated impacts were adjusted using billing analysis of the program clients.

PROGRAM COSTS AND IMPACTS

The WAP program installed measures in 1,850 dwellings during calendar year (CY) 2013. Program spending totaled $17,721,600 for materials, labor, and support in houses weatherized to completion during calendar year (CY) 2013. Spending was 33% less than in 2012, due to reductions in Federal and State funding. Federal and state funding accounted for 72% of overall expenditures

The average household expenditures for all dwellings weatherized in 2013 increased by 7.6% to $9,580 from $8,900 in 2012. The major measures installed by the program in 2013 are essentially unchanged from the 2012 program.

First-year savings totaled 355,500 therms; 1,122,200 kWh electricity; 65,300 gallons of propane; and 3,000 gallons of fuel oil. First-year peak demand savings totaled 3,700 therms, 330 kW summer demand, and 220 kW winter demand.

On average, the program saved 610 kWh of electricity for 1,822 dwellings with electricity impacts. The program saved an average of 240 therms of natural gas for 1,487 dwellings with gas impacts. In addition, the program delivered first-year savings of 290 gallons of propane in 285 dwellings with propane impacts, and 190 gallons of fuel oil in 187 dwellings with fuel oil impacts.

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[1] Dalhoff Associates, LLC. Report on the Impacts and Costs of the Iowa Low-Income Weatherization Program – Calendar Year 2007, October 15, 2008.

First-year client energy cost savings totaled $503,100, averaging $272 for dwellings weatherized in the CY 2013 program.

UTILITY EXPENDITURES AND IMPACTS

The three major investor-owned utilities, Alliant-IPL, MidAmerican Energy, and Black Hills Energy, contributed $5,024,300, accounting for 28% of total program expenditures. The utility expenditures averaged $3,720 for the 1,350 dwellings that received utility-funded measures. The values for utility expenditures, number of dwellings, and the average spent per dwelling were essentially unchanged from the 2012 program.

Utility-funded measures accounted for 52% of all energy savings for electricity and 61% of gas savings. Utility-funded measures saved a total of 587,700 kWh, averaging of 530 kWh of electricity for the 1,108 dwellings with utility-funded electricity measures. Utility funded measures also saved a total of 217,400 therms, averaging 200 therms of natural gas for the 1,064 dwellings with utility-funded natural gas measures. Utility-funded measures installed reduced peak electricity demand by 190 kW in the summer and 90 kW in the winter, and provided 2,260 peak-day therms of gas savings.

Utility-funded measures yielded first-year client bill savings of $230,700, averaging $162 per dwelling that received utility-funded measures. Electricity bill savings averaged $52 per household for utility-funded electricity measures. Gas bill savings averaged $164 for those with utility-funded gas measures.

Summary of Program Impacts and Costs

Overall Program Impacts

	Electricity (kWh and kW)			Natural Gas (therms)			Propane (gals)	Fuel Oil (gals)
	Overall	DCAA	Utility	Overall	DCAA	Utility	DCAA	DCAA
Energy	1,122,200	534,500	587,700	355,500	138,100	217,400	65,300	3,000
Summer Demand	330	140	190	NA	NA	NA	NA	NA
Winter Demand	220	120	90	3,700	1,440	2,260	NA	NA

Average Impacts[1] per Dwelling (for those receiving measures with a given fuel type)

	Electricity (kWh)			Natural Gas (therms)			Propane (gals)	Fuel Oil (gals)
	Overall	DCAA	Utility	Overall	DCAA	Utility	DCAA	DCAA
Energy	610	330	530	240	100	200	290	190
Summer Demand	0.180	0.090	0.170	NA	NA	NA	NA	NA
Winter Demand	0.120	0.070	0.090	2.5	1.0	2.1	NA	NA

Expenditures and First Year Client Fuel Bill Savings

Totals	Overall	DCAA	Utility	Averages	Overall	DCAA	Utility
Expenditures	$17,721,600	$12,697,300	$5,024,300	Expenditures	$9,580	$6,860	$3,720
Client Fuel Savings	$503,100	$272,500	$230,700	Client Fuel Savings	$272	$147	$171

[1] Average impacts are for dwellings that received the measures, and so the averages of the Utility and DCAA will not total to the statewide average

FUEL CONSUMPTION ANALYSIS RESULTS

The natural gas savings reported herein were first estimated using the measure-specific revised algorithms developed for the CY 2007 program, and then adjusted based upon a billing analysis of the weatherization clients. The factors were applied to the estimated electricity, natural gas, propane, and fuel oil heating measures, and to natural gas and propane water heater measures. Along with providing better assessments of agency-level impacts, this procedure also provides a check on the accuracy of the algorithms used to estimate savings.

Natural gas savings for single family site-built dwellings averaged 236 therms $\pm$ 13 at 90% confidence. This represents a 25.1% savings $\pm$ 1.3% at 90% confidence for natural gas measures. Mobile home savings averaged 124 therms $\pm$ 29 at 90% confidence, equating to a 15.9% savings $\pm$ 3.6%.

Electricity savings were initially estimated using algorithms developed from savings of the 2005 and 2006 program. These estimates were adjusted based upon a billing analysis of electricity impacts of the

2012 and 2013 programs. That assessment found that savings averaged 2,123 kWh ± 1,130 for dwellings with electric main heat, and 509 kWh ± 137 for dwellings heating without electric main heat.

CHANGES IN PROGRAM DELIVERY AND REPORTING

There were no significant changes in measures delivered for the CY 2013 program, as compared to the CY 2012 program.

Organization of the Report

Section 1, Summary of Program Impacts and Expenditures, provides the overall findings of the study, and relates these to prior year results. In addition, it provides broad summaries of impacts and costs for the agencies.

Section 2, Fuel Consumption Analysis and Assessment of Agency-Level Savings Adjustment Factors, details the methodology and results of the fuel consumption analysis. A standard comparison-adjusted pre/post weather-normalization methodology was used to assess impacts.

Section 3, Detailed Spending and Impact Profiles by Funding Entity provides detailed result tables for the overall program, state funding, and for each of the three funding utilities. These tables include counts of installations and totals and average energy savings, demand impacts, and program expenditures by measure.

Section 4, Detailed Spending and Impact Profiles by Agency provides tables similar to those in Section 4 for each weatherization agency, for all measures installed.

Section 5, Detailed Spending and Impact Profiles by Agency for Utility Expenditures provides similar detail by agency, but is limited to measures funded by the utilities.

Appendix A provides a characterization of households and dwellings weatherized during 2013.

1. SUMMARY OF PROGRAM IMPACTS AND EXPENDITURES

AGGREGATE PROGRAM EXPENDITURES AND IMPACTS

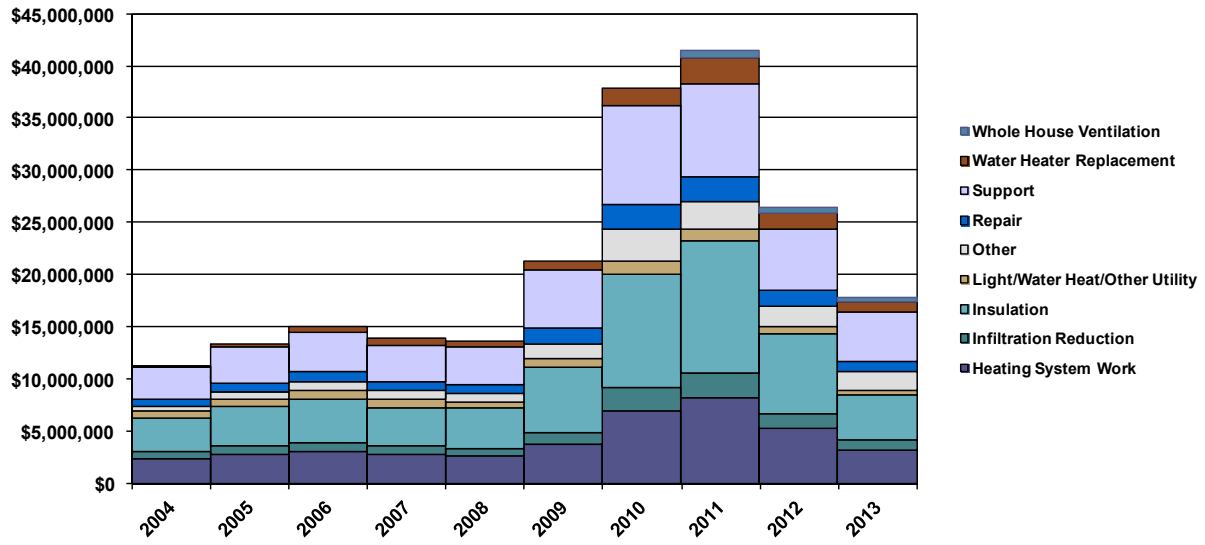

Figure 1.1a Overall Program Expenditures

Program spending totaled $17,721,600 for materials, labor, and support in houses weatherized to completion during calendar year (CY) 2012, decreasing by 33% from $26,445,639 spent in 2012 (see Figure 1.1a, totals exclude administration expenditures). This was a 58% reduction from the program peak expenditures of $41,977,443 in 2011. The decreases in spending are due to reductions in Federal and state funding. Federal and state funding accounted for 72% of all funding.

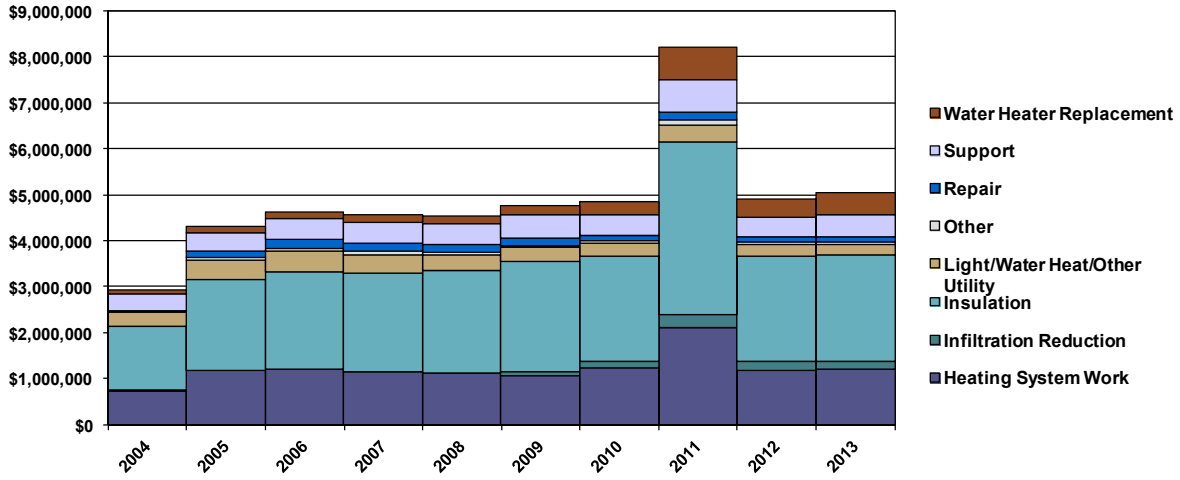

Figure 1.1b Utility Expenditures

A total of 1,850 dwellings were weatherized in 2013, compared to 2,971 in 2012. The utilities funded measures in 1,350 dwellings (73%).

The utilities spent $5,024,300 in 2013, which was a slight increase from 2012. (Figure 1.1b). Utility expenditures accounted for 28% of the total low-income program expenditures.

First year natural gas savings totaled 355,500 therms for the program overall (Figure 1.2a) – utility funding was credited with 217,400 therms, or 61% of the total (Fig 1.2b).

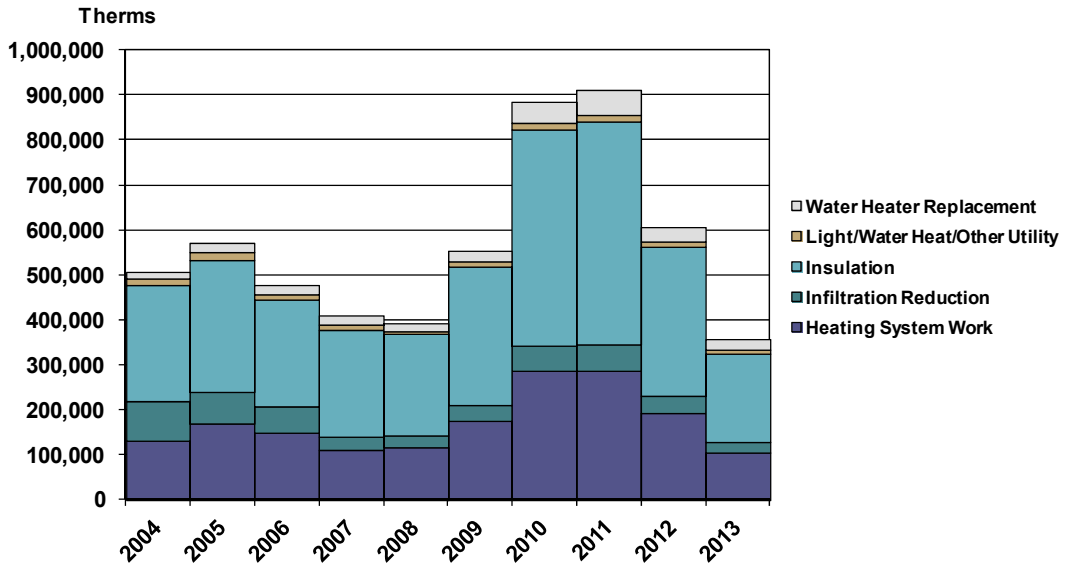

Figure 1.2a First Year Energy Savings (therms)

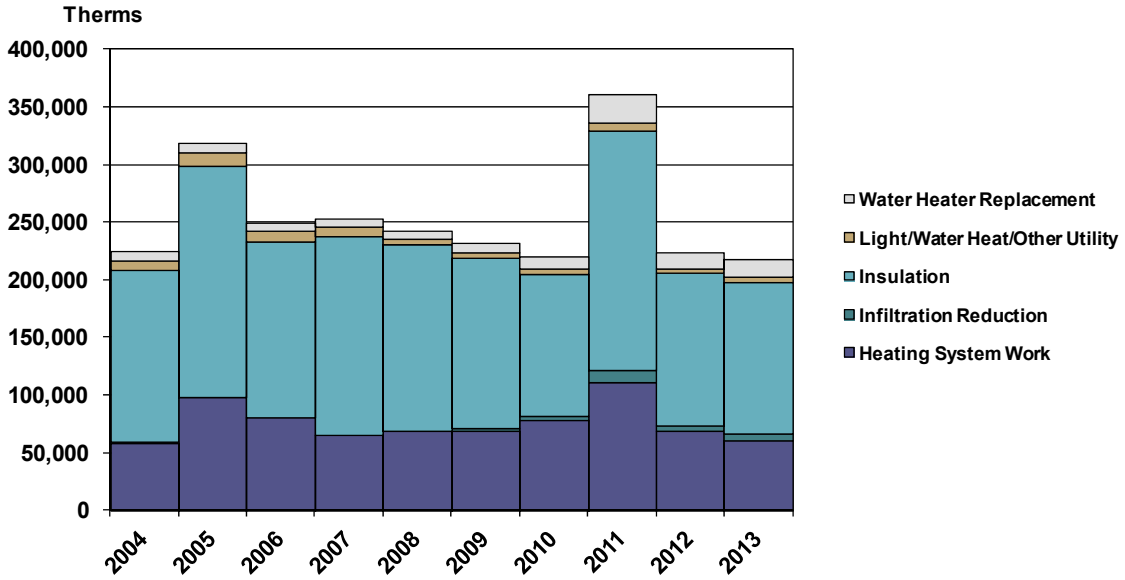

Figure 1.2b Utility First Year Energy Savings (therms)

Electricity savings totaled 1,122,200 kWh for the program overall (Figure 1.2c) – utility funding was credited with 587,700 kWh, or 52% of the total (Fig 1.2d).

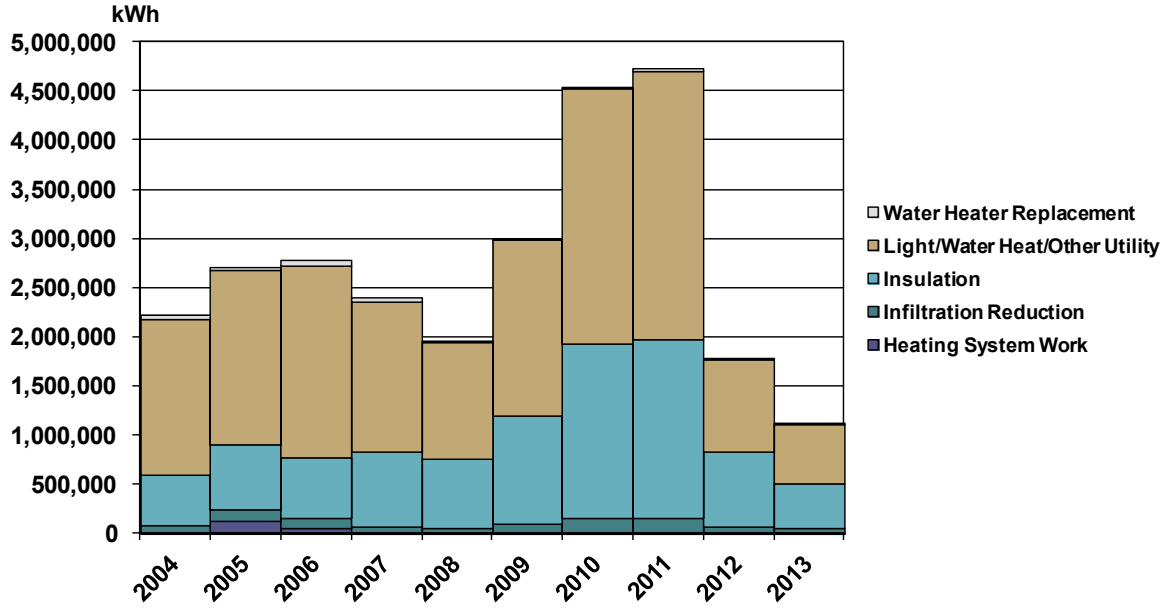

Figure 1.2c First Year Energy Savings (kWh)

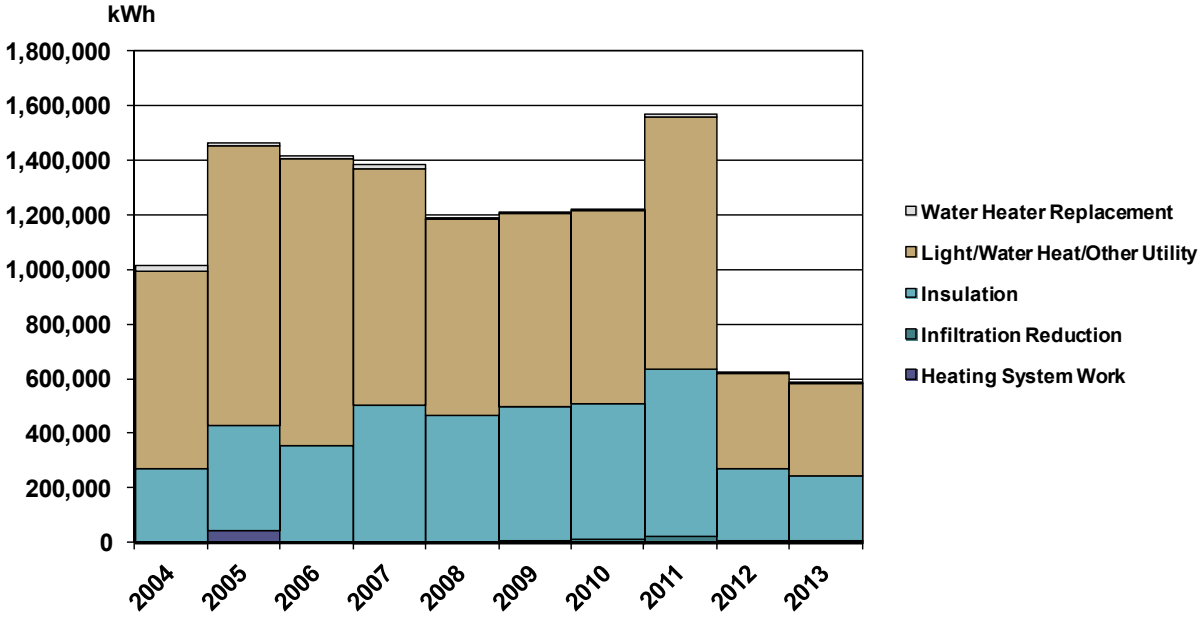

Figure 1.2d Utility First Year Energy Savings (kWh)

ENERGY SAVINGS BY END-USE AND FUEL TYPE

Heating system and shell measures savings accounted for 85.1% of the program savings on an MBtu basis, while domestic hot water measures accounted for 8.2%, refrigeration measures 1.5%, lighting 2.7%.

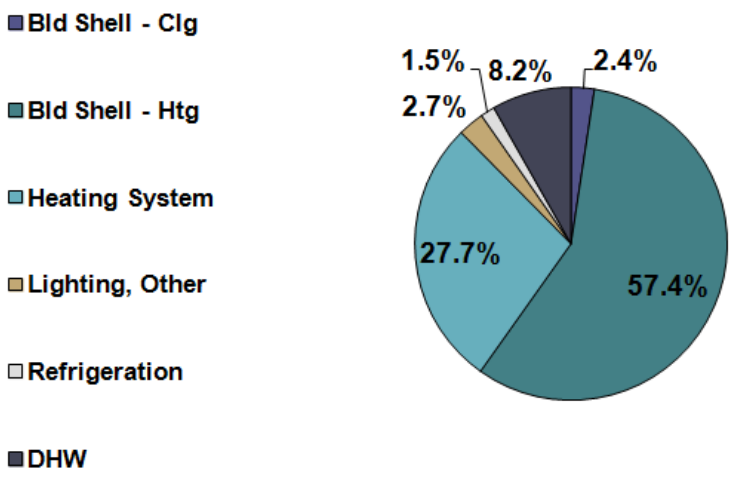

Figure 1.3a Program Energy Savings by End-Use

Natural gas savings accounted for 77.5% of savings on an MBtu basis, electricity savings accounted for 8.4% of savings, and propane savings accounted for 13%. First-year savings totaled 355,500 therms; 1,122,200 kWh electricity; 65,300 gallons of propane; and 3,000 gallons of fuel oil. First-year peak demand savings totaled 3,700 therms, 330 kW summer demand, and 220 kW winter demand.

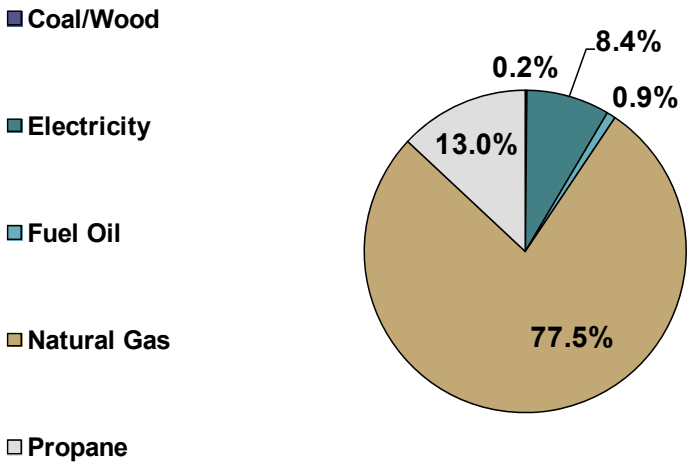

Figure 1.3b Program Energy Savings by Fuel Type

CLIENT BILL SAVINGS

Client fuel bill savings were estimated using Department of Energy's Energy Information Agency (EIA) state monthly average prices for electricity and natural gas, and seasonal fuel costs for propane and fuel oil. The savings for each measure are allocated by month so that the estimated bill savings reflect the seasonal fluctuations in fuel prices.

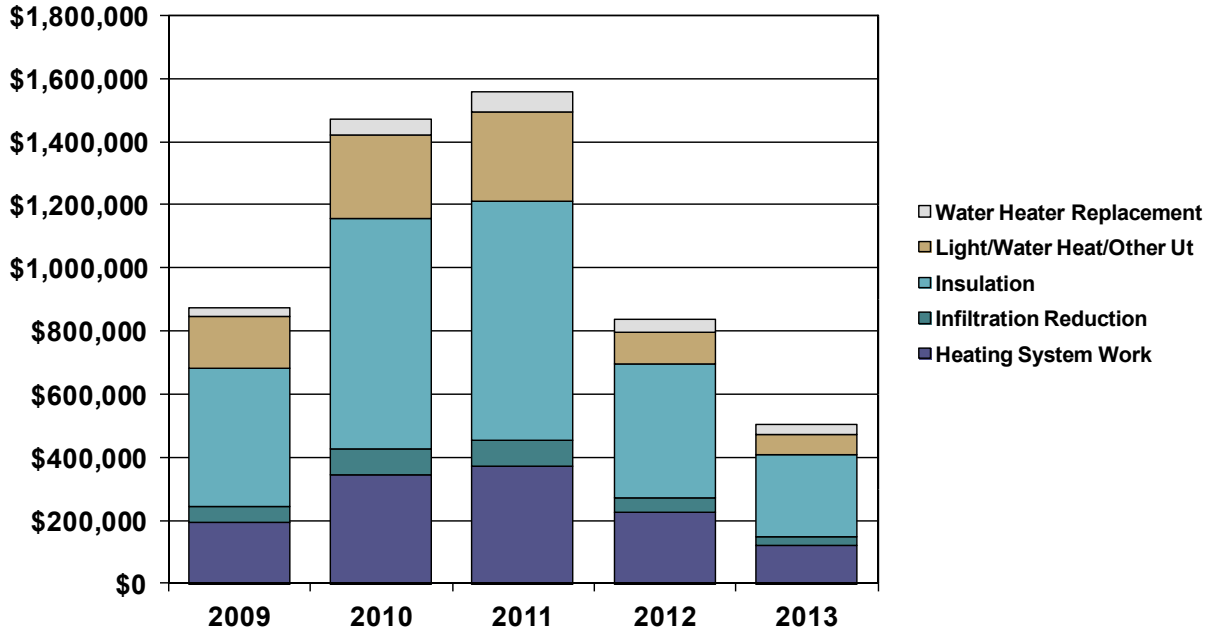

Figure 1.4a First Year Client Fuel Cost Savings (Nominal Dollars)

The nominal first year client energy bill savings totaled $503,100 in 2013 (Figure 1.4a).

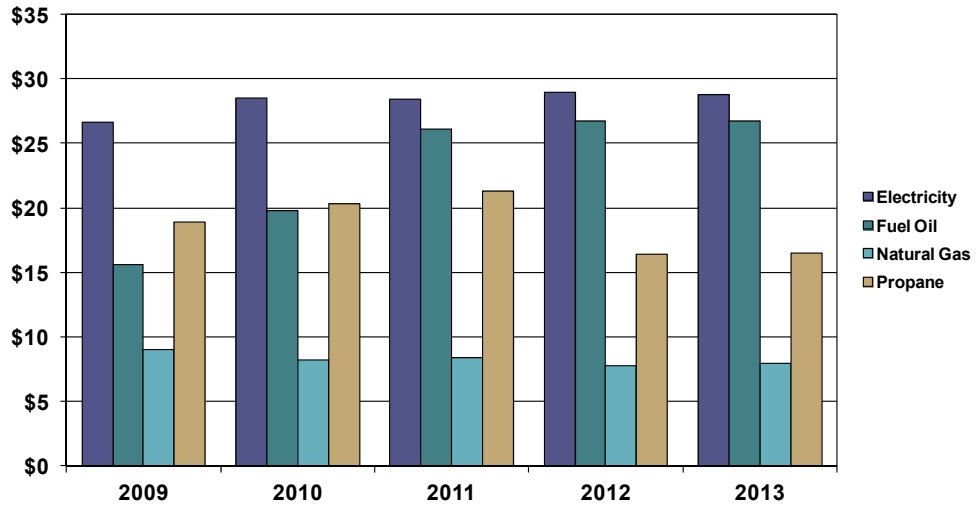

Figure 1.4b Average Fuel Cost per MBtu (Nominal Dollars)

Natural gas prices increased by 2% from CY 2012, while the prices for all other fuels remained essentially unchanged (Figure 1.4b).

CLIENT SAVINGS BY FUEL TYPE AND END-USE

Natural gas savings provided 55% of client bill savings, electricity accounted for 23%, propane accounted for 20%, and fuel oil provided 2% (Figure 1.5a).

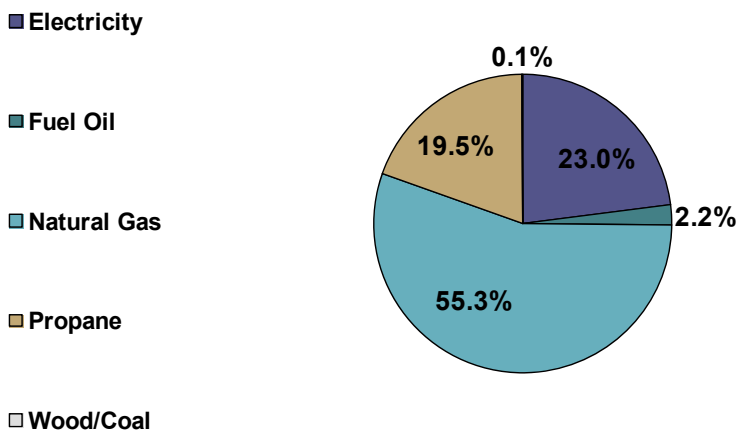

Figure 1.5a Client Bill Savings by Fuel Type

Approximately 50% of client bill savings are attributable to the heating impacts of shell measures (insulation and infiltration reduction), and 24% due to heating system work (Figure 1.5b). Taken together, heating impacts from shell improvements and heating system measures accounted for 74% of total client bill savings.

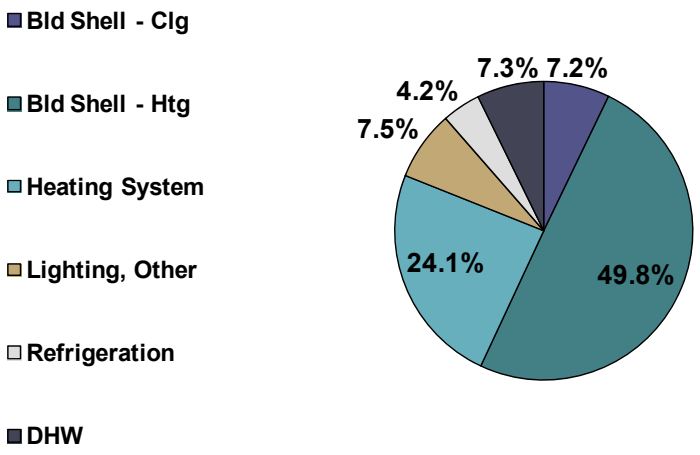

Figure 1.5b Client Bill Savings by End Use

UTILITY FUNDING IMPACTS

Utility funding reached a total of 1,350 households, or 73% of all dwellings weatherized by the program. Forty-six of these received only program support or measures with minor savings for which we do not assess impacts, leaving 1,304 with energy savings (Table 1.1). Utility expenditures for labor and material totaled $4,558,023; an additional $466,296 was spent for program support. Materials and labor expenditures averaged $3,376 across all dwellings receiving utility funded measures, and total expenditures including support averaged $3,722.

Table 1.1 Utility Expenditures and Counts of Dwellings with Impacts

	Total Expenditures		Counts of Dwellings With Energy Impacts					
Utility	Excluding Program Support	With Program Support	Electric Impacts	Pct of Prg	Gas Impacts	Pct of Prg	Total	Pct of Prg
Alliant IPL	$ 1,954,500	$ 2,157,900	631	34.6%	403	27.1%	744	40.2%
Black Hills Corp	$ 464,900	$ 511,700			166	11.2%	166	9.0%
MidAmerican	$ 2,138,600	$ 2,354,700	477	26.2%	494	33.2%	597	32.3%
Total Utilities	$ 4,558,000	$ 5,024,300	1,108	60.8%	1,064	71.6%	1,304	70.5%

Note: expenditures exclude utility administation costs

Utility-funded measures accounted for 54% of all energy savings for electricity and 62% of gas savings. Utility-funded measures saved a total of 639,900 kWh, averaging of 580 kWh of electricity for the 1,108 dwellings with utility-funded electricity measures. Utility funded measures also saved a total of 219,700 therms, averaging 206 therms of natural gas for the 1,064 dwellings with utility-funded natural gas measures. Utility-funded measures installed reduced peak electricity demand by 210 kW in the summer and 100 kW in the winter, and provided 2,290 peak-day therms of gas savings.

Table 1.2 First Year Fuel and Client Bill Savings Impacts from Utility-Funded Measures

Utility	First Yr Fuel Savings	Pct of Prg	Summer Demand Savings	Pct of Prg	Winter Demand Savings	Pct of Prg	First Year Fuel Cost Savings	Pct of Prg
Electricity	(kWh)		(kW)		(kW)			
Alliant IPL	306,500	28.0%	100	30.4%	46	21.9%	$ 30,300	28.1%
MidAmerican	281,100	25.6%	90	26.8%	49	23.3%	$ 27,700	25.7%
Total Electric Utilities	587,700	53.6%	190	57.2%	94	45.2%	$ 57,900	53.8%
Gas	Therms				Peak Day Therms			
Alliant IPL	90,800	25.7%			950	25.8%	$ 71,700	25.6%
Black Hills Corp	26,200	7.5%			270	7.3%	$ 20,900	7.5%
MidAmerican	100,300	28.6%			1,040	28.2%	$ 80,100	28.7%
Total Gas Utilities	217,400	61.7%			2,260	61.4%	$ 172,700	61.9%

Utility-funded measures yielded first-year client bill savings of $230,700, averaging $171 per dwelling that received utility-funded measures. Electricity bill savings averaged $52 per household for utility-funded electricity measures. Gas bill savings averaged $162 for those with utility-funded gas measures.

Figure 1.6 provides a average utility funding for labor and materials and percentages dwellings with utility funding for the past five years.

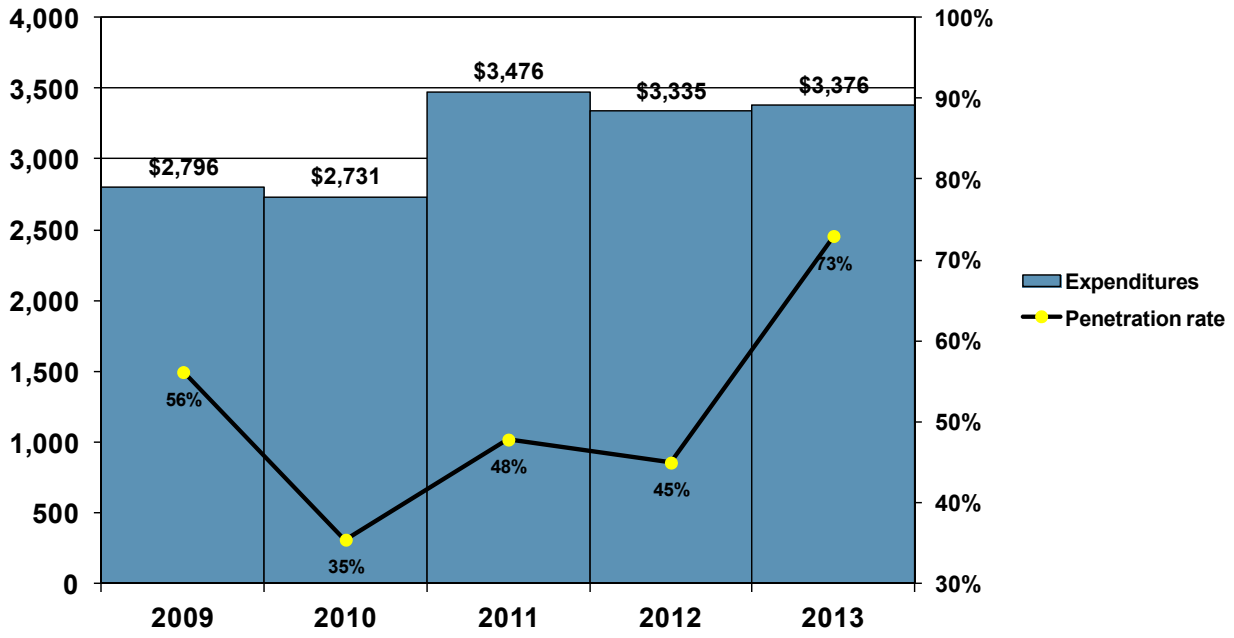

Figure 1.6 Average Utility Spending on Materials and Labor (excluding Support), and Percentage of Homes Receiving Utility-Funded Measures with Impacts

Table 1.3 provides the percentages of total expenditures for the types of measures that were funded by the utilities.

Table 1.3 Utility Funding Percentages by Measure

Measure	Expenditures Total	Expenditures Utility	Utility Percentage
Wall Insulation	$1,622,336	$966,119	59.6%
Attic Insulation	$1,571,729	$894,336	56.9%
Kneewall Insulation	$132,665	$79,661	60.0%
Floor/Crawlspace Insulation	$540,946	$286,098	52.9%
Bandjoist Insulation	$116,901	$51,662	44.2%
Infiltration Reduction	$1,002,359	$172,746	17.2%
High Efficiency Htg Sys Repl.	$2,235,242	$1,162,398	52.0%
Electric Htg Sy/Ht Pump Repl.	$147,467	$2,745	1.9%
Pipe Wrap	$6,880	$3,733	54.3%
Faucet Aerator	$2,612	$1,320	50.5%
Shower Head	$3,602	$1,838	51.0%
Water Heater Replacement - Hi Eff	$844,536	$481,837	57.1%
Compact Fluorescent Lighting	$95,718	$56,925	59.5%
Exchange Refrigerator	$275,619	$150,065	54.4%
Exchange Freezer	$43,310	$15,659	36.2%
Repairs	$1,039,839	$104,157	10.0%
Programmable Thermostat	$1,963	$1,749	89.1%
Htg Sys Tune/Clean	$113,462	$33,315	29.4%
Htg Sys Ventilation	$146,618	$33,631	22.9%
Water Heater Ventilation	$79,927	$22,693	28.4%
Other	$3,041,774	$35,336	1.2%
Overall Excluding Support	$13,065,506	$4,558,023	34.9%
Support	$4,656,124	$466,296	10.0%
Overall Including Support	$17,721,630	$5,024,319	28.4%

AVERAGE EXPENDITURES AND IMPACTS

The nominal average household expenditures for all dwellings weatherized in 2013 increased by 8% to $9,580 in 2013 (Figure 1.7). The relative proportion of expenditures by major measure groups has changed little in recent years -- insulation accounted for the largest proportion of total expenditures, followed by support and heating system work.

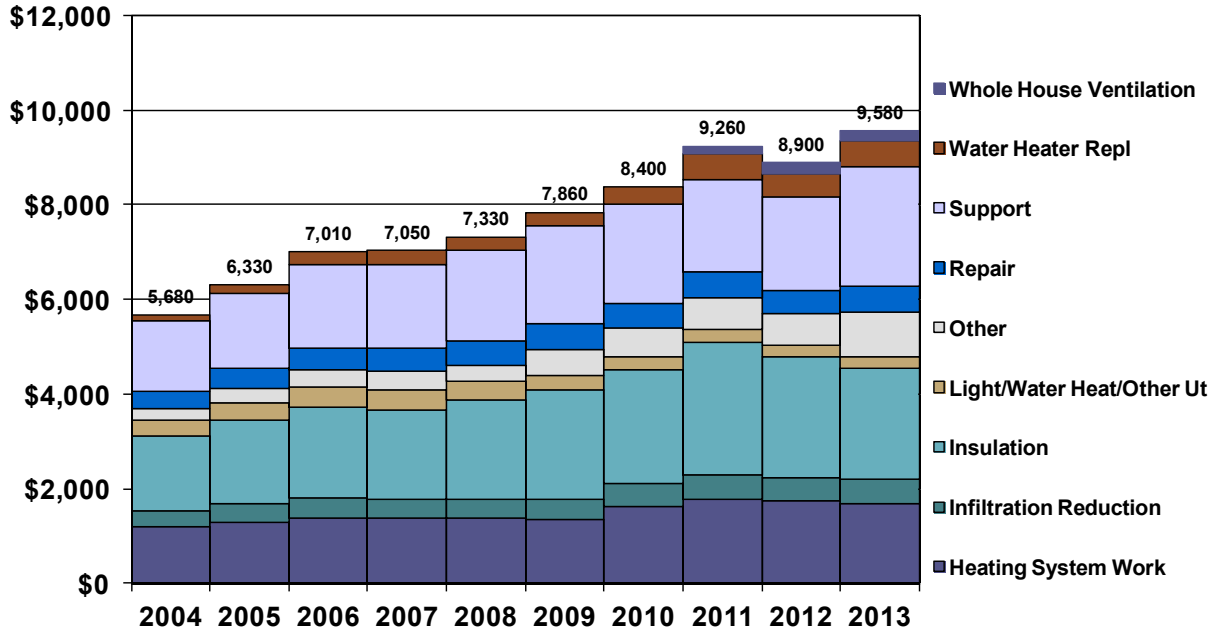

Figure 1.7 Average Program Expenditures per Housing Unit

The average savings per dwelling was 24.9 MBtu for clients weatherized during 2013 (Figure 1.8).

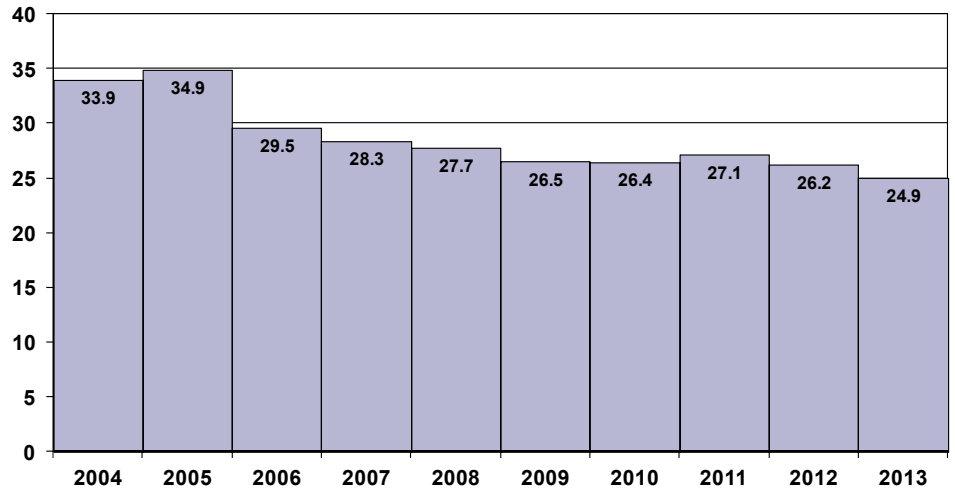

Figure 1.8 Average Energy Savings per Housing Unit (MBtu)

First-year client fuel bill savings averaged $272 for the CY 2013 program, compared with $282 per dwelling in 2012 (Figure 1.9).

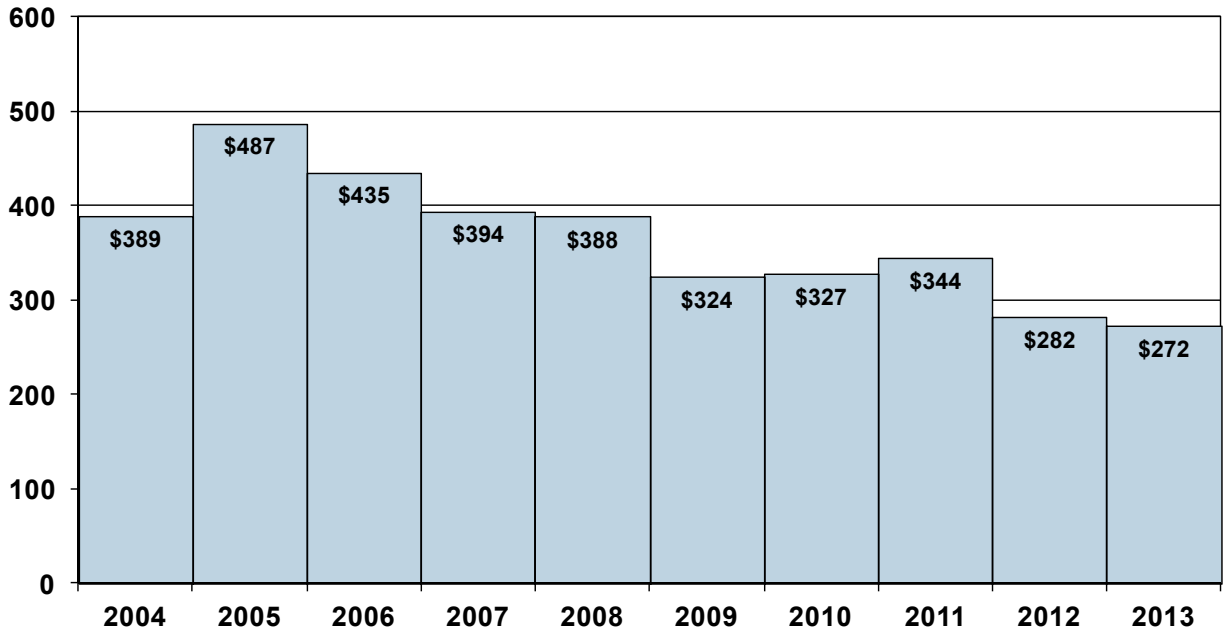

Figure 1.9 Average Annual Client Fuel Bill Savings per Housing Unit

EXPENDITURES AND SAVINGS BY AGENCY

Figure 1.10 shows the average annual energy cost savings by agency. The series are arranged from left to right in the chart according to left to right and top to bottom and in the legend, e.g., Bldg Shell Cooling, then Bldg Shell Heating, then Heating system, etc.

Savings attained by each agency were adjusted according to results of the natural gas and electricity fuel consumption analyses, detailed in Section 2 of this report. The estimated impacts for propane and fuel oil were adjusted using the same factors as those used for natural gas.

Bear in mind that various factors affect the values shown in this chart, factors beyond quality or intensity of weatherization treatment (an example is climate variations within the state). Consequently, these results should not be used as a basis for comparing the quality, attention to detail, dedication, or other factors of agency performance.

The statewide average client bill savings was $272 per dwelling. The wide variation in average client cost savings is typical of what we've observed in past years. The average first-year client bill savings widely varied across agencies, from lows near $180 per dwelling for (Redrock) to highs exceeding $340 for MATURA, MidSioux, and New Opportunities. As in the 2012 program, the results for MATURA are

significantly higher than for other agencies due to a relatively small sample of homes in the billing analysis – these dwellings had very high pre-weatherization consumption and savings.

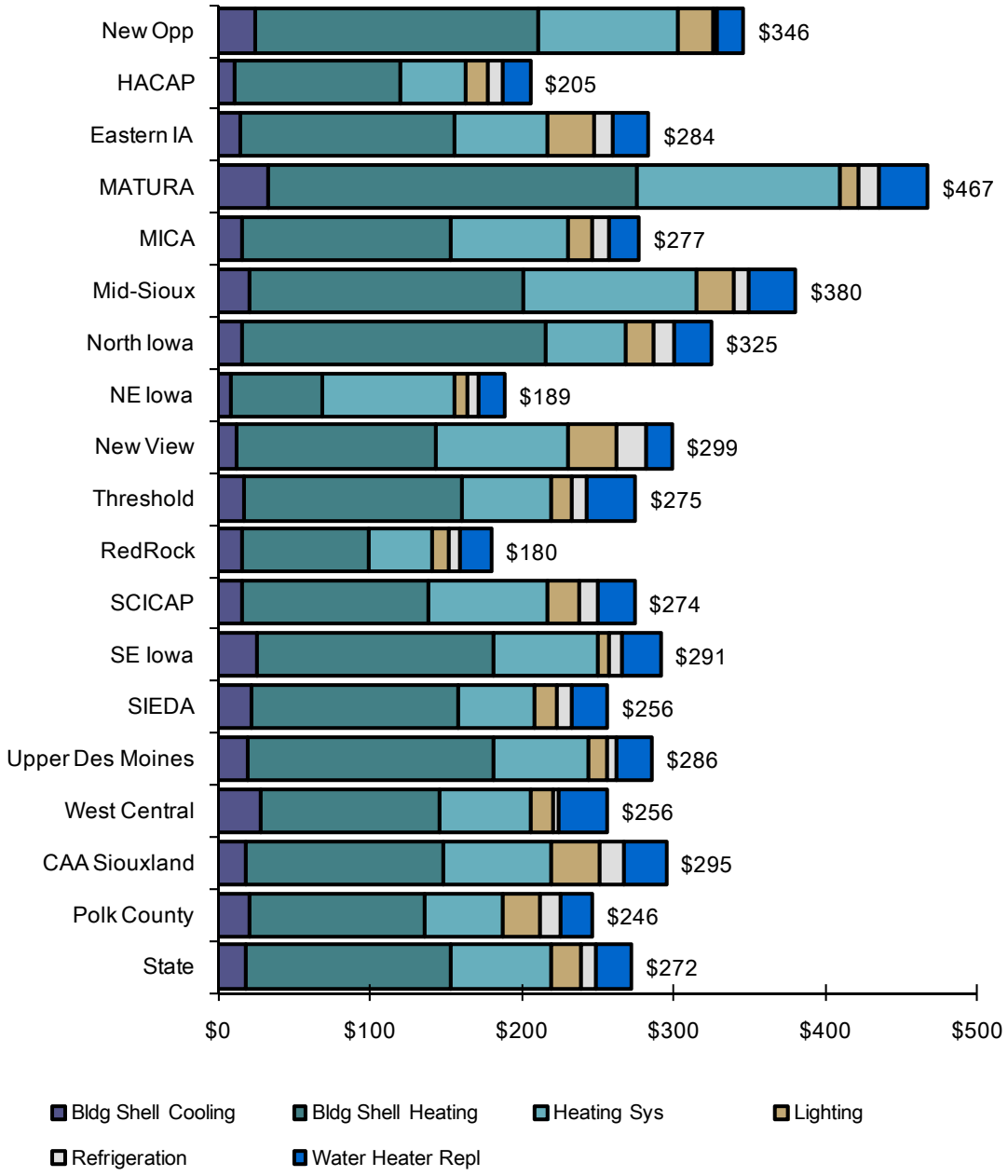

Figure 1.10 Average Annual Fuel Bill Savings per Housing Unit by Agency

Figure 1.11 shows the average expenditures for all households with impacts in 2013, ranging from highs exceeding $11,000 for MATURA, Redrock, and SIEDA to less than of $7,000 for Northeast Iowa. The statewide average expenditure was $9,580 per dwelling.

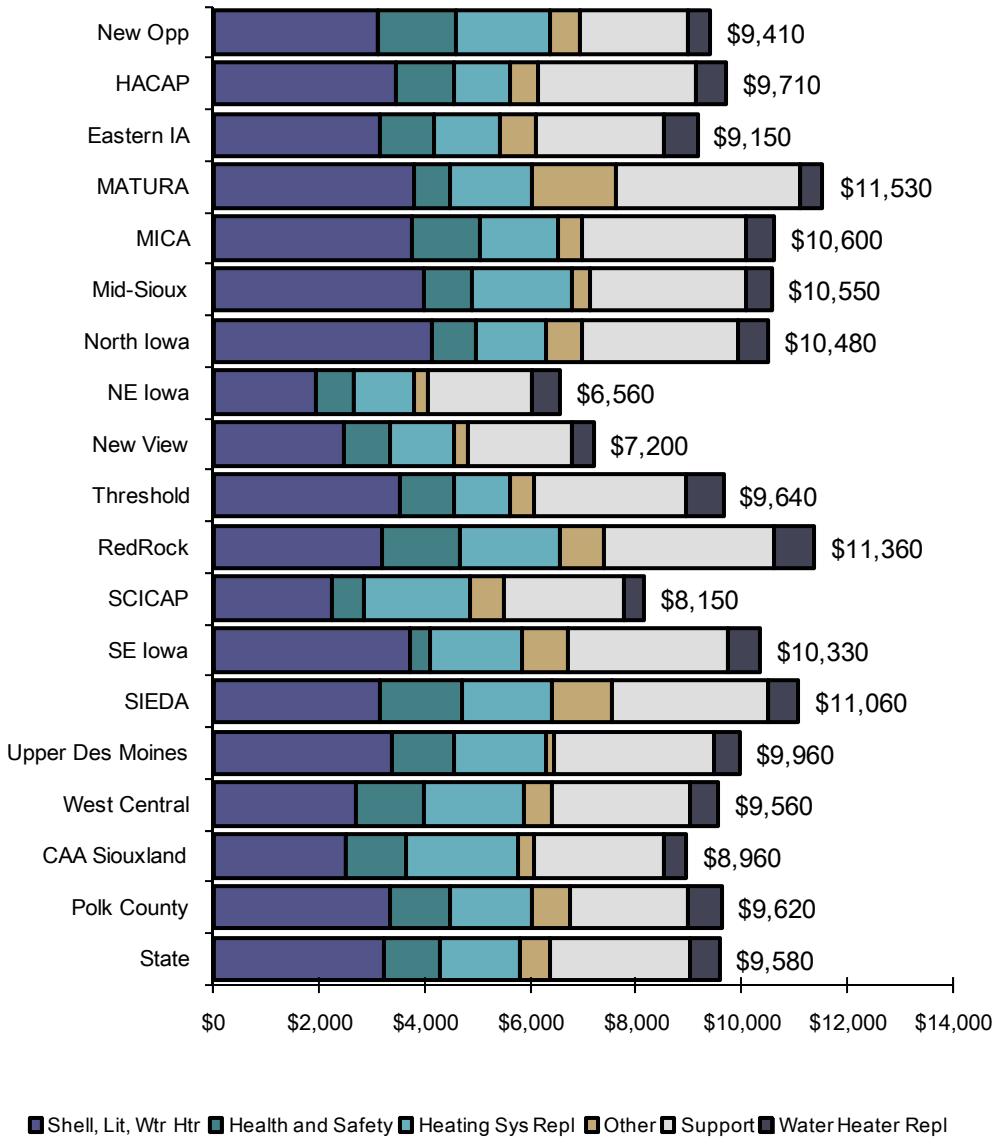

Figure 1.11 Average Expenditures per Housing Unit by Agency

The average installation rates, costs, and savings for energy efficiency and heating and water heating system replacement measures for calendar year programs 2011-2013 are shown in Figures 1.12a and 1.12b.

The installation rates of nearly all insulation measures and infiltration reduction in the 2013 program changed little from the previous two years (see Figure 1.12a, left chart), however bandjoist insulation rates decreased by about 10%.

Figure 1.12a, right chart, shows that the average measure costs. Non-condensing heating system costs increased, but this is due to a greater proportion of these units being more costly boiler installations.

The average first-year energy gas and electricity savings for each major measure is shown in Figures 1.12b.

The average natural gas savings by measure changed little from 2011 through 2013, however the savings for ceiling/attic insulation has increased annually over this period. The savings for condensing heating system replacements decreased but this may be attributable to several factors, including infiltration rate reduction and decreases in pre-weatherization consumption.

The average electricity savings are lower for 2013 than in 2012. Note that the savings for 2011 were likely overstated, as these were based upon estimates determine in a billing analysis of the 2005 and 2006 programs . We conducted billing analyses for the 2012 and 2013 programs, so the savings reflect impacts of measures installed in recent years.

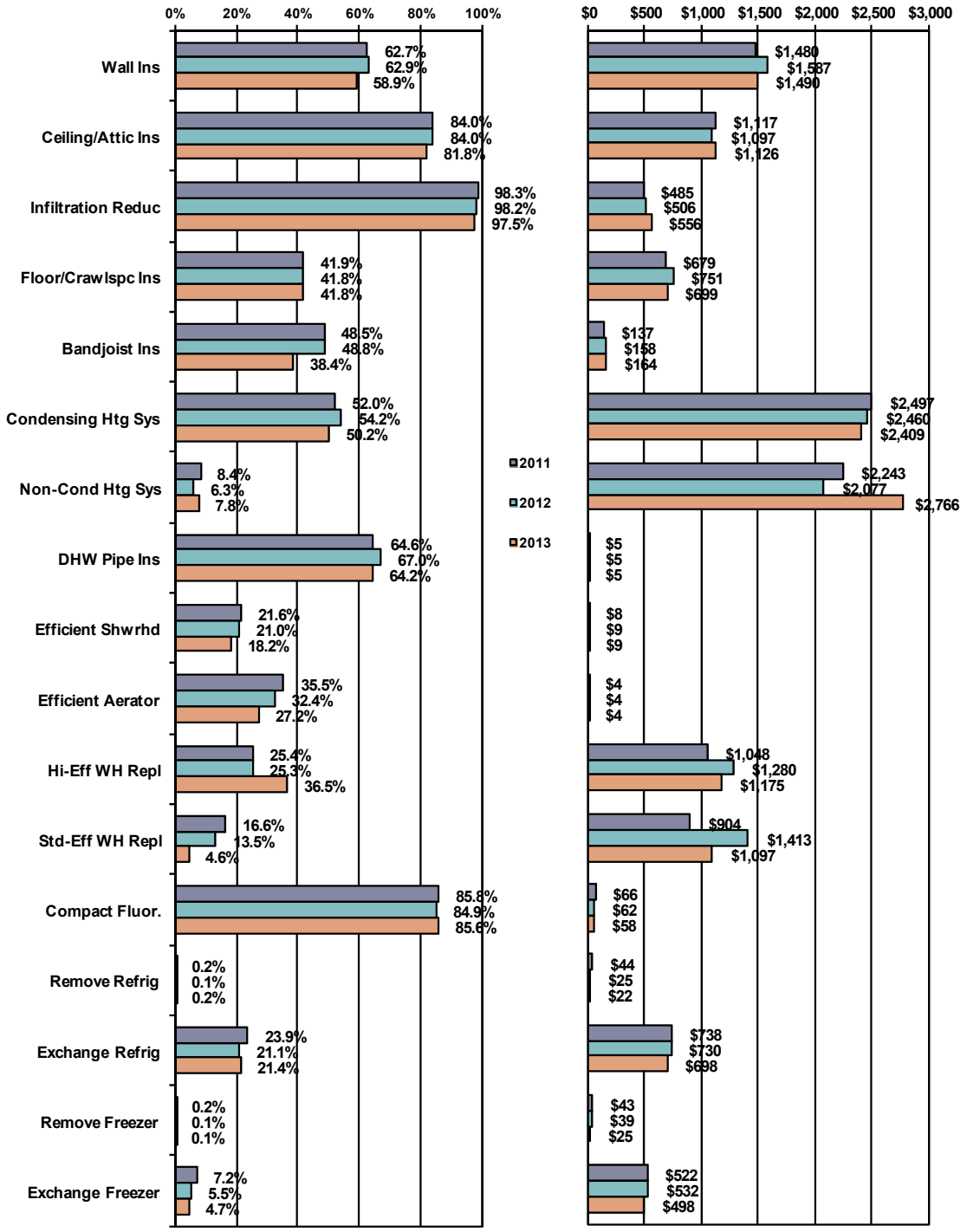

Figure 1.12a Average Installation Rates and Measure Costs of Efficiency Measures, Heating System and Water Heating Replacements

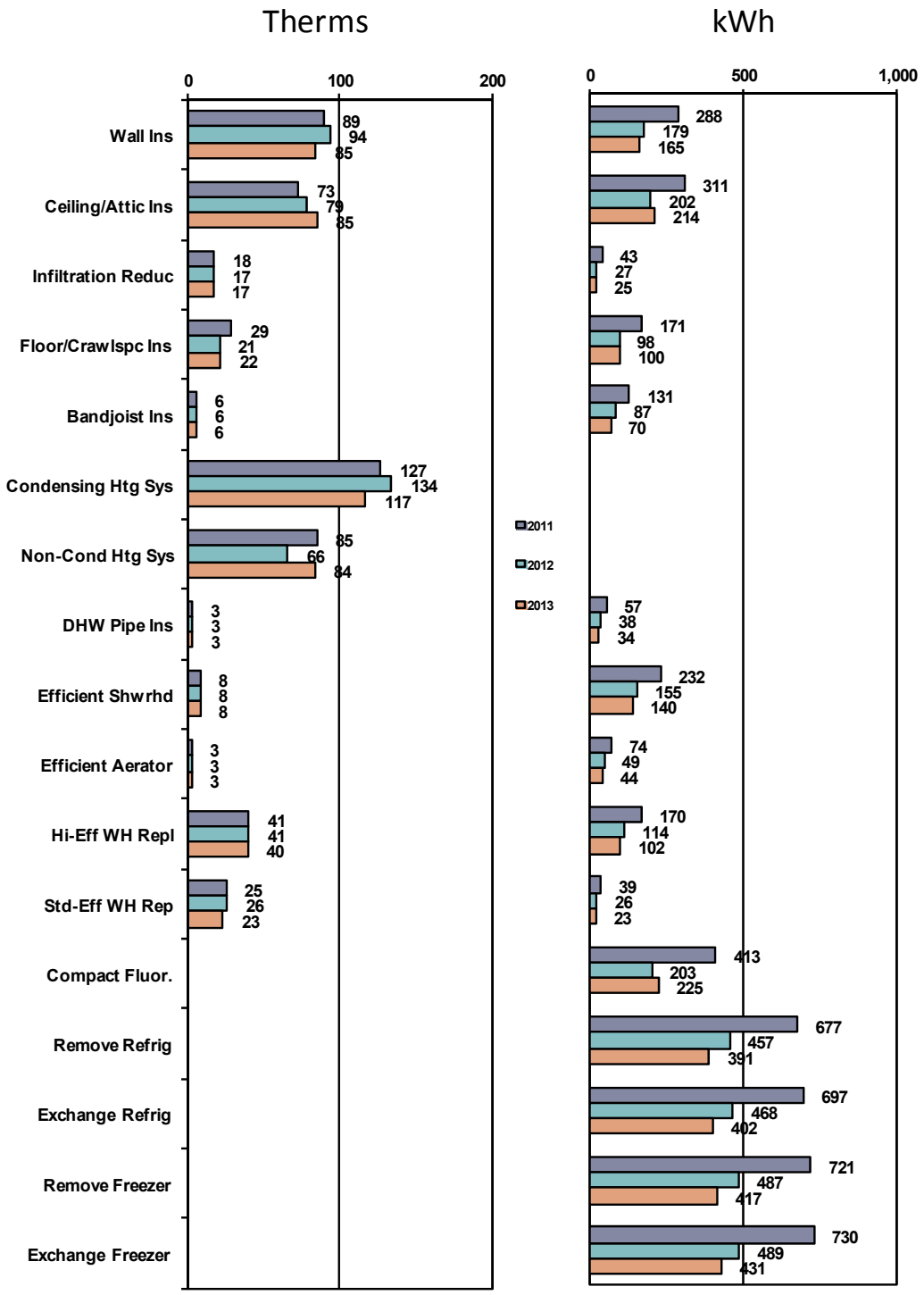

Figure 1.12b Average Gas and Electricity Savings of Efficiency Measures, Heating System and Water Heating Replacements

Table 1.4 provides a listing of the average installation rates of measures (i.e., the percentage of households receiving measures) over the past 5 years. Cases where the percentage changes are highest correspond to measures with very low installation rates and/or savings, so these are not indicative of major changes in the installation protocols for these measures or program impacts.

Table 1.4 Installation Rates of Measures

Measure	2009	2010	2011	2012	2013	Percentage Change in Installation Rate (%)
Insulation and Infiltration Reduction Measures						
Wall Insulation	61.5	64.3	63.0	62.9	59.8	-5.1%
Ceiling/Attic Insulation	84.7	84.5	84.5	84.0	82.0	-3.0%
Floor/Crawlspace Insulation	40.5	38.6	43.8	43.3	42.8	-2.3%
Bandjoist Insulation	48.1	48.4	48.8	48.9	38.4	-21.2%
Infiltration Reduction	96.0	98.1	99.0	98.4	97.5	-1.5%
Heating System Measures						
Htg. Sys. Replacement	50.1	53.0	60.7	60.5	58.4	-3.8%
High Eff Htg Sys Repl	45.1	49.3	52.3	54.2	50.6	-3.3%
Std/Unspec Eff Htg Sys Repl	5.0	3.7	8.4	6.3	7.8	-7.0%
Htg. Sys. Tune and Clean	50.4	41.5	42.6	40.0	39.5	-7.3%
Heating System Safety Check	26.9	25.8	24.5	21.3	15.0	-39.0%
Heating System Ventilation	11.2	7.2	13.7	9.5	33.3	142.9%
Water Heater Measures						
Pipe Wrap	68.5	69.4	73.6	75.7	75.0	1.9%
Shower Head	26.4	23.9	24.8	22.5	21.7	-12.6%
Faucet Aerator	44.1	41.0	38.7	35.2	33.0	-14.7%
Water Heater Replacement	32.1	38.0	48.4	45.4	48.2	-0.4%
Hi-Eff Wtr Htr Repl.	15.6	19.0	27.3	27.1	38.9	42.2%
Std-Eff Wtr Htr Repl.	16.5	19.0	21.1	18.3	9.4	-55.7%
Water Heater Ventilation	13.1	19.0	20.6	22.4	20.3	-1.2%
Water Heater Repair	8.0	8.1	7.8	11.0	9.7	24.3%
Lighting Measures						
Compact Fluorescent Bulbs	87.9	81.6	86.2	84.9	86.1	-0.2%
Refrigeration Measures	32.7	26.8	28.6	24.7	24.8	-13.4%
Refrigerator Removal	0.3	0.1	0.2	0.1	0.3	35.4%
Refrigerator Exchange	27.0	22.0	24.0	21.1	21.4	-11.0%
Freezer Removal	0.4	0.2	0.2	0.1	0.1	-69.5%
Freezer Exchange	9.6	8.1	7.3	5.5	4.7	-35.4%
Health and Safety (other than heating & water heating measures listed above)						
CO Detector	59.3	67.4	76.7	77.3	81.1	5.7%
Smoke Detector	30.7	35.4	45.2	48.8	59.9	32.8%
Exhaust Ventilation	67.6	77.4	81.0	83.5	80.4	-0.8%
Fuses	0.3	0.2	0.6	0.6	0.1	-80.5%
Repairs	88.1	82.9	88.5	87.6	88.4	-0.1%

Table 1.5 shows details of the average installed costs for each measure over the past 5 years of the joint program. Insulation costs decreased by 7% to 12% with the exception of bandjoist insulation which increased slightly. Non-condensing heating system replacement costs increased by 14% in the 2013 program due to higher number of boiler installations. Other cases with large percentage changes in costs tend to be those associated with very few installations or costs, and have little effect on the overall program costs.

Table 1.5 Average Measure Costs

Measure	2009	2010	2011	2012	2013	Recent Year Change (%)
Insulation and Infiltration Reduction Measures						
Wall Insulation	1,409	1,477	1,712	1,587	1,466	-14.4%
Ceiling/Attic Insulation	1,089	1,115	1,240	1,096	1,124	-9.4%
Infiltration Reduction	439	484	528	505	556	5.2%
Floor/Crawlspace Insulation	676	662	797	725	683	-14.3%
Bandjoist Insulation	118	136	151	157	164	8.8%
Heating System Measures						
Htg. Sys. Replacement						
Condensing Htg Sys Repl	2,372	2,497	2,503	2,460	2,388	-4.6%
Non-Cond Htg Sys Repl	1,885	2,243	2,421	2,077	2,766	14.3%
Htg. Sys. Tune and Clean	93	114	141	147	155	10.1%
Heating System Safety Check	98	94	127	119	135	6.1%
Heating System Ventilation	130	128	138	131	238	72.9%
Water Heater Measures						
Water Heater Wrap	0	0	0	0	0	0.0%
Pipe Wrap	5	5	5	5	5	2.5%
Shower Head	8	8	9	9	9	0.4%
Faucet Aerator	5	4	4	4	4	3.9%
Water Heater Replacement						
Hi-Eff Wtr Htr Repl.	973	1,048	1,171	1,197	1,175	0.3%
Std-Eff Wtr Htr Repl.	828	904	1,035	1,037	1,097	6.0%
Water Heater Ventilation	164	223	216	226	213	-1.6%
Water Heater Repair	100	107	94	97	102	8.3%
Lighting Measures						
CFL Bulbs (avg spent per home)	66	66	65	62	60	-8.0%
Refrigeration Measures						
Refrigerator Removal	28	44	39	25	18	-55.4%
Refrigerator Exchange	725	738	719	730	698	-3.0%
Freezer Removal	23	43	71	39	25	-64.9%
Freezer Exchange	511	522	510	532	498	-2.4%
Health and Safety (other than heating & water heating measures listed above)						
CO Detector	50	54	51	52	49	-4.0%
Smoke Detector	30	35	44	45	47	7.4%
Exhaust Ventilation	320	462	436	452	659	51.1%
Fuses	56	64	71	108	22	-69.3%
Repairs	621	628	603	573	636	5.5%
Support	2,135	2,280	2,415	2,424	2,631	8.9%

SAVINGS OF WATER HEATER, LIGHTING, AND REFRIGERATION MEASURES

Table 1.6 shows the installation rates for energy efficiency measures other than space heating or cooling. These measures include water heater (except water heater replacements which are primarily health and safety measures), lighting, and refrigeration measures. Statewide, client bill savings averaged $36 for these measures in 2013. The highest average bill savings were attained by Siouxland, New View, and Eastern Iowa exceeded $50 per dwelling. NE Iowa and Redrock the lowest average savings for these measures, averaging less than $21 per dwelling.

Table 1.6 Installation Rates and Savings of Baseload Measures

	Water Heating			Lighting	Refrigeration				
Agency	Pipe Wrap	Eff Shower-head	Eff Faucet Aerator	Compact Fluor	Ex-change Refrig	Ex-change Freezer	Remove Refrig	Remove Freezer	Average First Year Bill Savings
New Opp	62%	0%	0%	99%	8%	0%	0%	0%	$29.06
HACAP	43%	0%	1%	84%	20%	4%	0%	0%	$27.98
Eastern IA	69%	18%	42%	89%	23%	5%	2%	0%	$51.28
Matura	95%	39%	0%	76%	34%	0%	2%	0%	$36.34
MICA	51%	24%	34%	80%	25%	2%	0%	0%	$32.53
Mid-Sioux	96%	21%	42%	92%	17%	8%	0%	0%	$45.17
North Iowa	94%	43%	82%	96%	25%	10%	1%	0%	$41.19
NE Iowa	76%	0%	0%	66%	13%	5%	0%	0%	$20.75
New View	95%	0%	2%	99%	34%	11%	1%	0%	$54.99
Threshold	94%	52%	69%	95%	18%	7%	0%	1%	$34.22
Redrock	68%	7%	5%	73%	10%	10%	0%	0%	$20.52
SCICAP	21%	50%	81%	83%	29%	2%	0%	0%	$45.51
SE Iowa	71%	0%	0%	56%	17%	4%	0%	0%	$18.88
SIEDA	49%	17%	48%	68%	18%	4%	0%	0%	$32.53
Upper Des Moines	98%	0%	0%	96%	16%	1%	0%	0%	$25.22
West Central	78%	35%	79%	76%	7%	4%	0%	0%	$24.74
CAA Siouxland	92%	80%	58%	92%	34%	7%	0%	0%	$63.05
Polk County	94%	27%	44%	95%	28%	4%	0%	0%	$43.92
State	75%	22%	33%	86%	21%	5%	0%	0%	$36.06

TRENDS IN THE INSTALLATION RATES OF LIGHTING, REFRIGERATION, AND HEATING SYSTEM REPLACEMENTS

This section focuses on trends in the installation rates of several efficiency measures phased into the joint utility/WAP program, including compact fluorescent lighting, heating system replacements, and refrigeration measures. These are shown in Figures 1.13a through 1.13d.

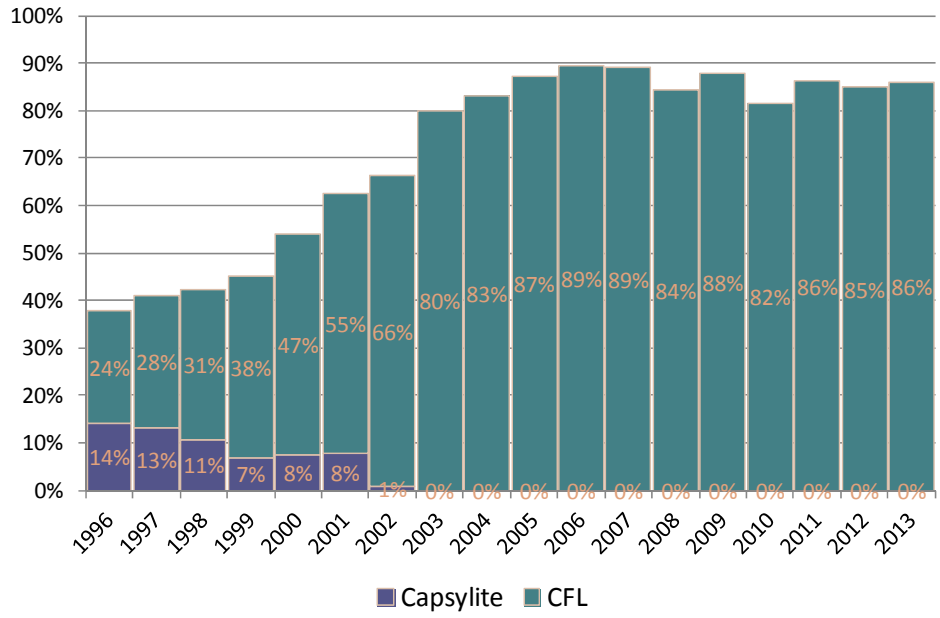

Figure 1.13a Percentage of Housing Units Receiving Lighting Measures

Figure 1.13a shows the percentage of dwellings receiving at least one lighting measure for each year, beginning in 1996. Lighting was installed in 38% of dwellings in 1996; currently 86% of dwellings receive lighting from the program.

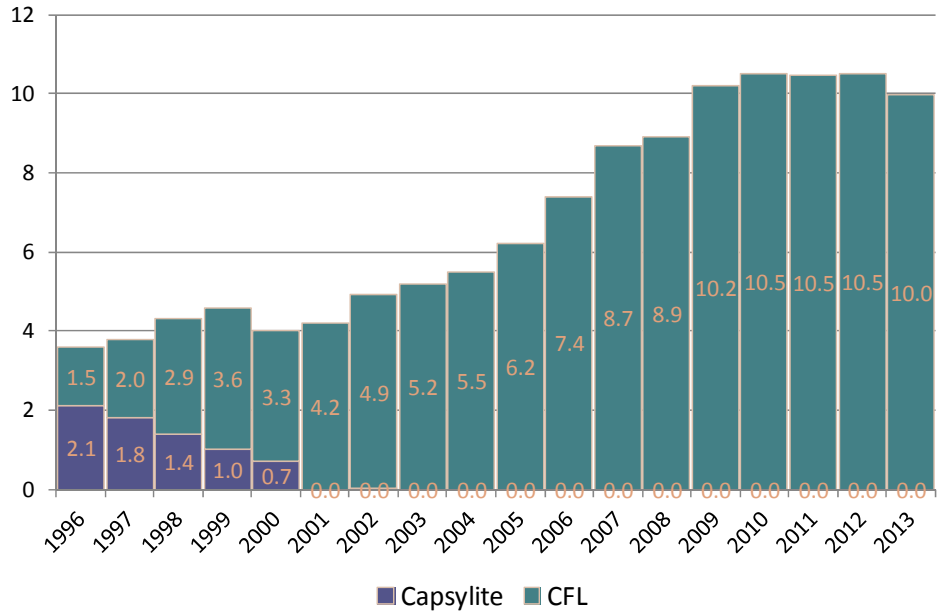

Figure 1.13b Average Number of Bulbs Installed for Housing Units Receiving Lighting Measures

The average number of bulbs installed in dwellings that received at least one lighting measure averaged 10 bulbs per house 2013, which is a slight decline from the previous four years (Figure 1.13b).

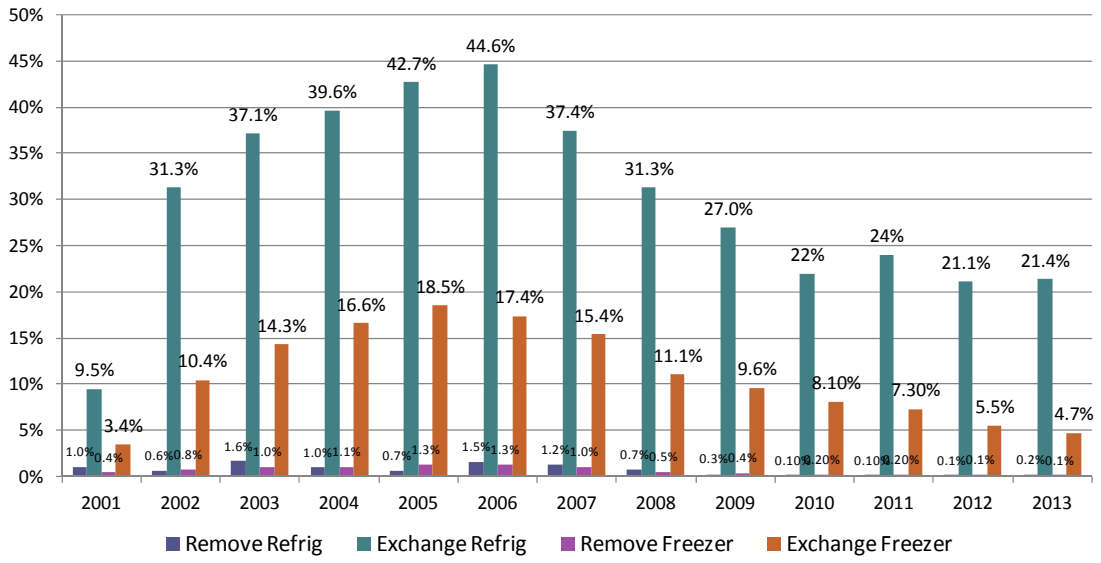

Figure 1.13c Installation Rates of Refrigeration Measures

Figure 1.13c shows the initial ramp up of refrigeration measure installation rates as well as declines in recent years. Installation rates are leveling off at in the lower 20% range over the past four years. It is likely that the efficiency of in-place units is steadily increasing in the population as clients replace failing units prior to participating in the weatherization program, resulting in fewer cases of cost-effective replacements.

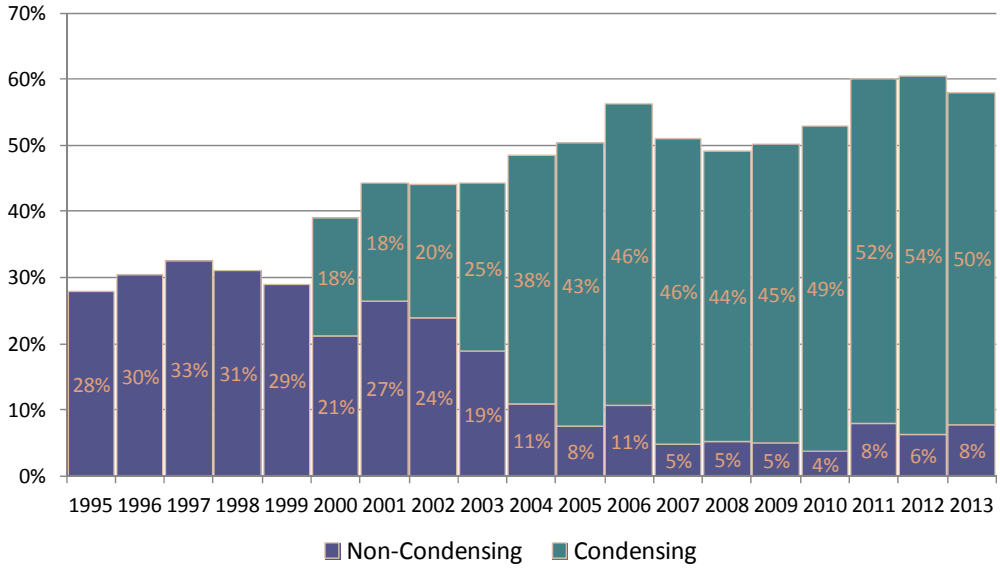

Figure 1.13d Installation Rates of Natural Gas Heating System Replacements

Figure 1.13d shows the transition to condensing (90+ efficiency) furnaces from non-condensing (80% efficiency) heating systems. Overall, 58% of dwellings with natural gas heating received a heating system replacement during 2013, with the vast majority of these being condensing units.

AVERAGE COSTS OF MAJOR MEASURES BY AGENCY

Figures 1.14-1.17 show the agency-specific average costs for ceiling, wall, and floor/crawlspace insulation and furnace replacements for the overall program and for utility-funded measures only. These costs represent the total expenditures for these measures averaged over the number of households that received the measure (as opposed to an average across all households that were treated by the agency).

CEILING AND ATTIC INSULATION EXPENDITURES

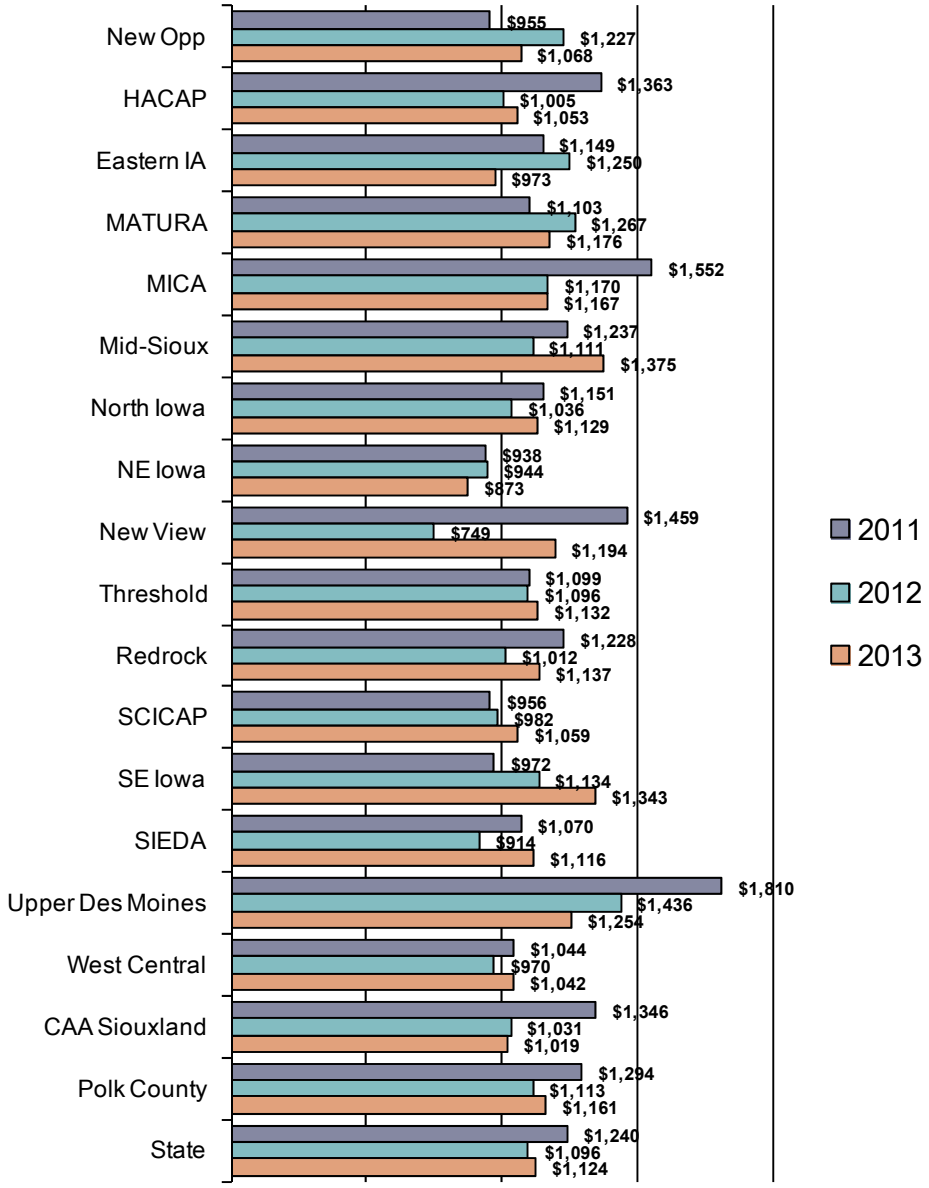

Figure 1.14a Average Program Expenditures on Ceiling Insulation by Agency

Figures 1.14a and 1.14b show the average installed costs for ceiling and attic insulation (including cavity-fill blown attic insulation). The statewide average cost for ceiling insulation was $1,124 in 2013.

Mid-Sioux and SE Iowa averaged over $1,300 per dwelling. The lowest average spending was reported by NE Iowa, averaging $873.

Figure 1.14b shows the statewide average expenditure of utility funds on ceiling and attic insulation was $944 in 2013. RedRock and Polk County each averaged over $1,100 per dwelling while NE Iowa and MATURA spend less than $700 in utility funds for ceiling and attic insulation.

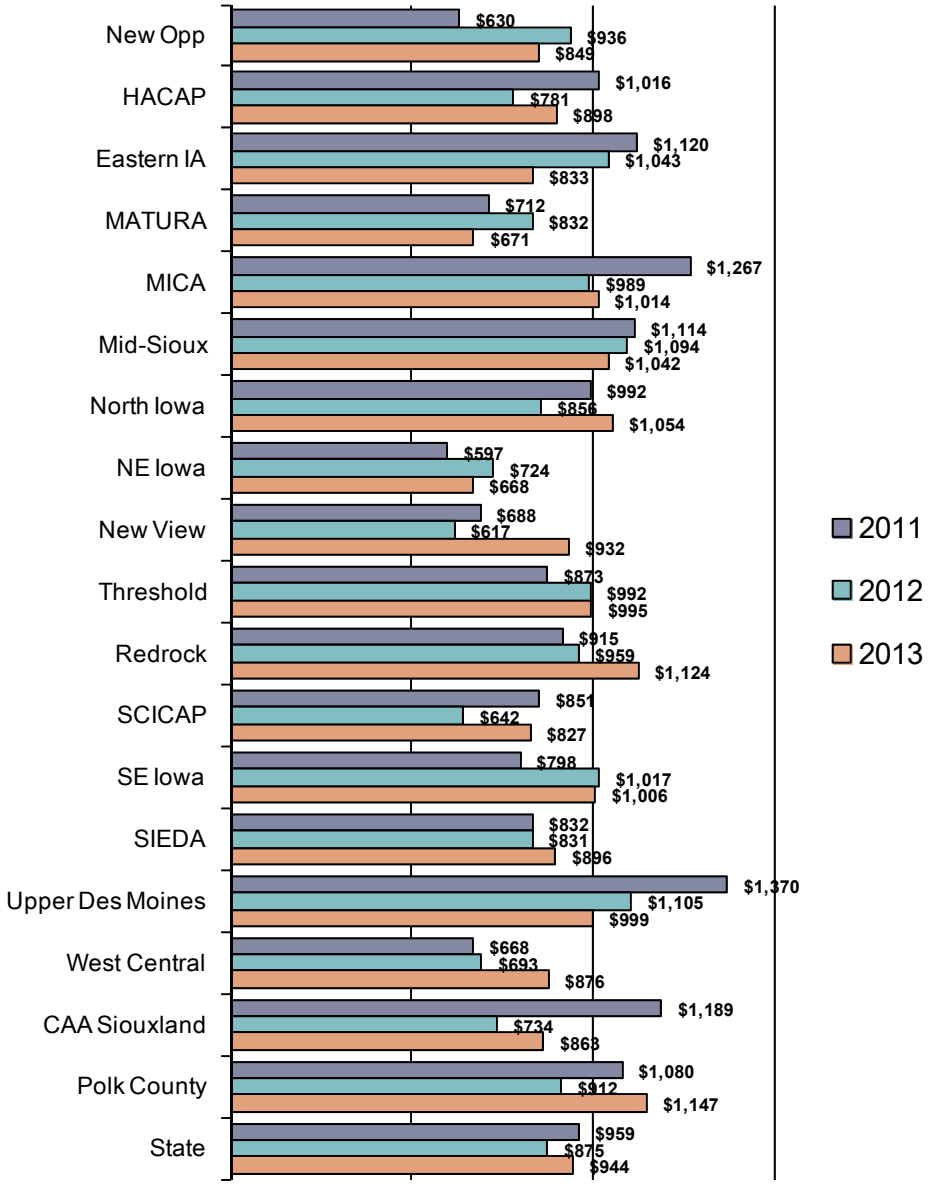

Figure 1.14b Average Utility Expenditures on Ceiling Insulation by Agency

WALL INSULATION EXPENDITURES

Figures 1.15a and 1.15b show the average installed costs for wall insulation. The state average expenditure for wall insulation was $1,466 in CY 2013. Mid-Sioux and North Iowa each averaged more than $2,000, while SCICAP spent the least, averaging $560 per dwelling.

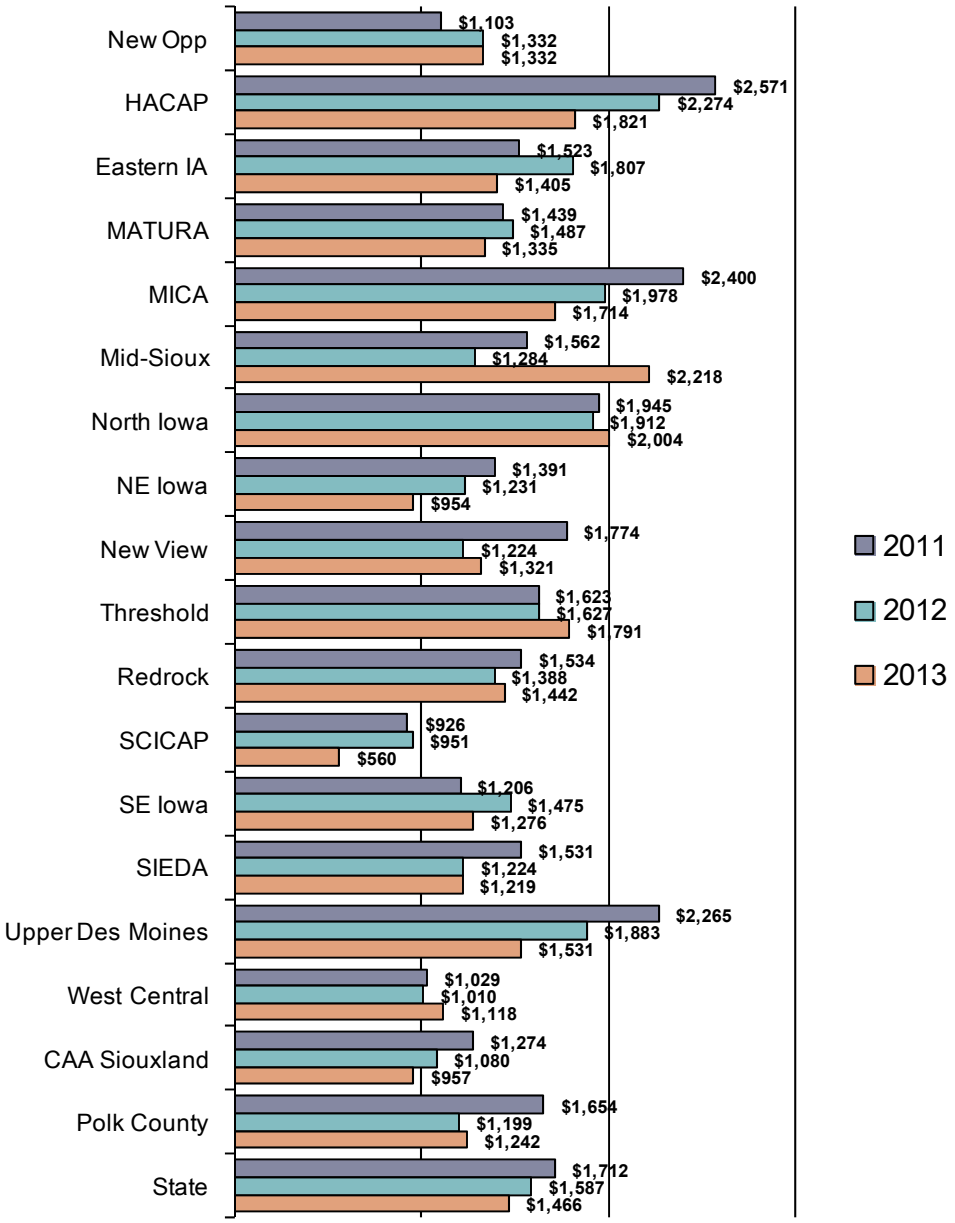

Figure 1.15a Average Program Expenditures on Wall Insulation by Agency

Statewide, the average expenditures for utility-funded wall insulation averaged $1,275 in CY 2013. Threshold and North Iowa spent the most utility funds, averaging over $1,600; SCICAP, CAA Siouxland and Northeast Iowa spent less than $900 per dwelling.

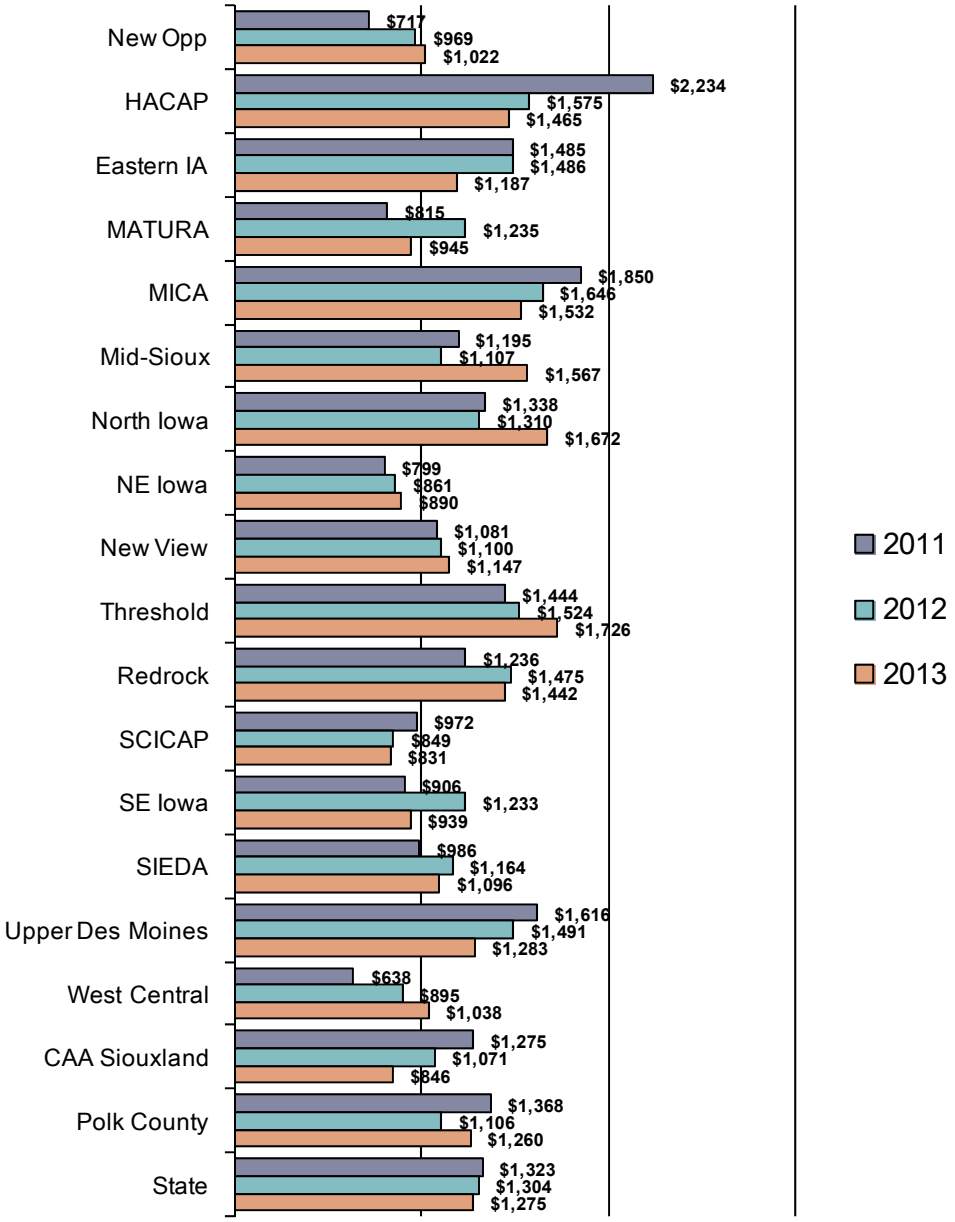

Figure 1.15b Average Utility Expenditures on Wall Insulation by Agency

FLOOR/CRAWLSPACE INSULATION

Figures 1.16a and 1.16b show the average expenditures for floor/crawlspace insulation. Statewide, the cost for floor/crawlspace insulation averaged $683. Mid-Sioux averaged over $2,000 per dwelling, while West Central spend $197.

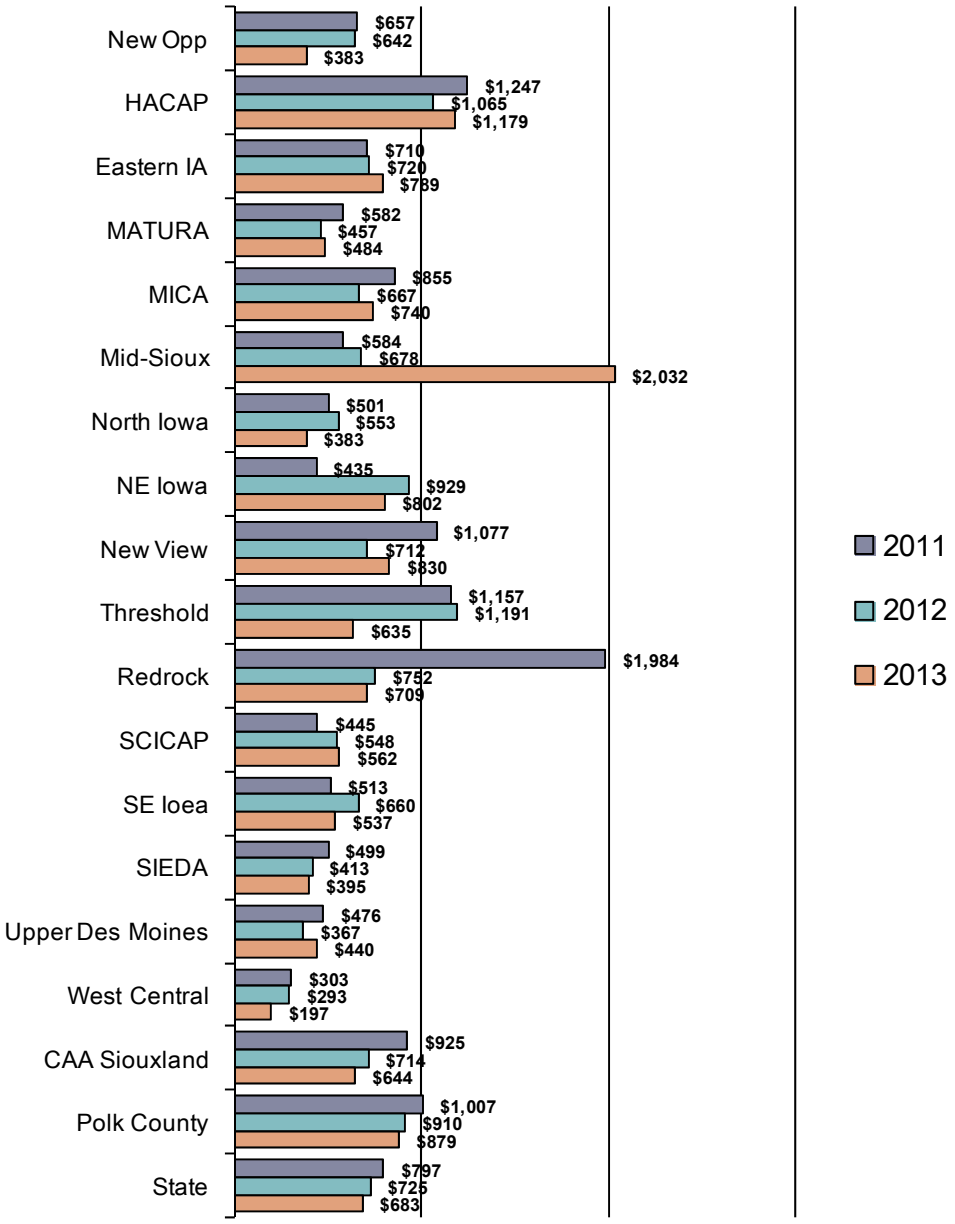

Figure 1.16a Average Program Expenditures on Floor/Crawlspace Insulation by Agency

Statewide, the average expenditure of utility funds for floor/crawlspace insulation was $571. Mid-Sioux spent the most at $1,174 while MATURA and West Central spent less than $200.

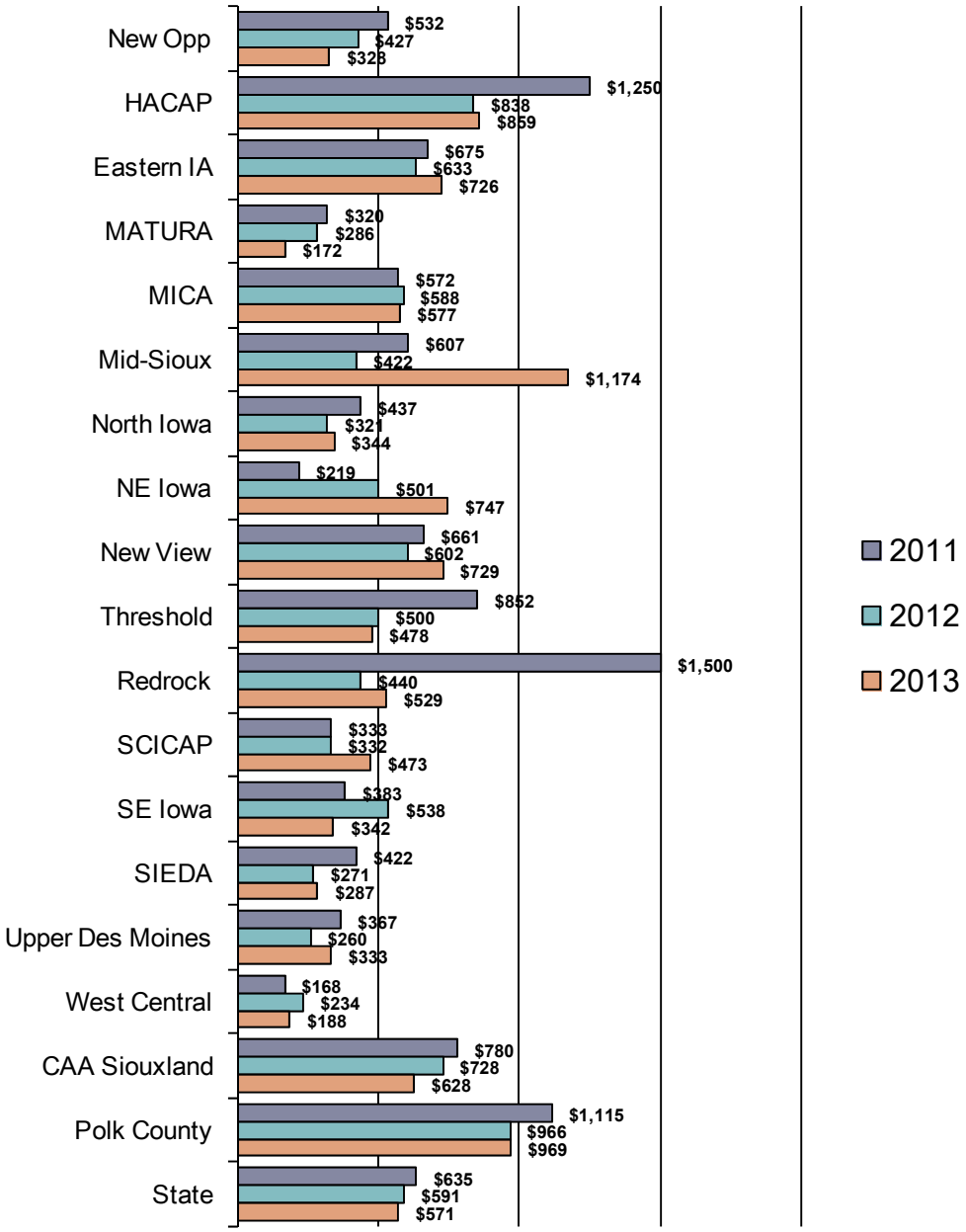

Figure 1.16b Average Utility Expenditures on Floor/Crawlspace Insulation by Agency

NON-ELECTRIC HEATING SYSTEM REPLACEMENT EXPENDITURES

Figures 1.17a and 1.17b show average expenditures for all heating non-electric heating system replacements. Statewide average heating system replacement costs were $2,477 in 2013 (Figure 1.17a). Four agencies reported average expenditures approaching or exceeding $3,000, including West Central ($3,769), CAA Siouxland ($3,342), SIEDA ($3,272), and New Opportunities ($2,991). Two agencies averaged less than $2,000, including HACAP ($1,988), and Northeast Iowa ($1,787).

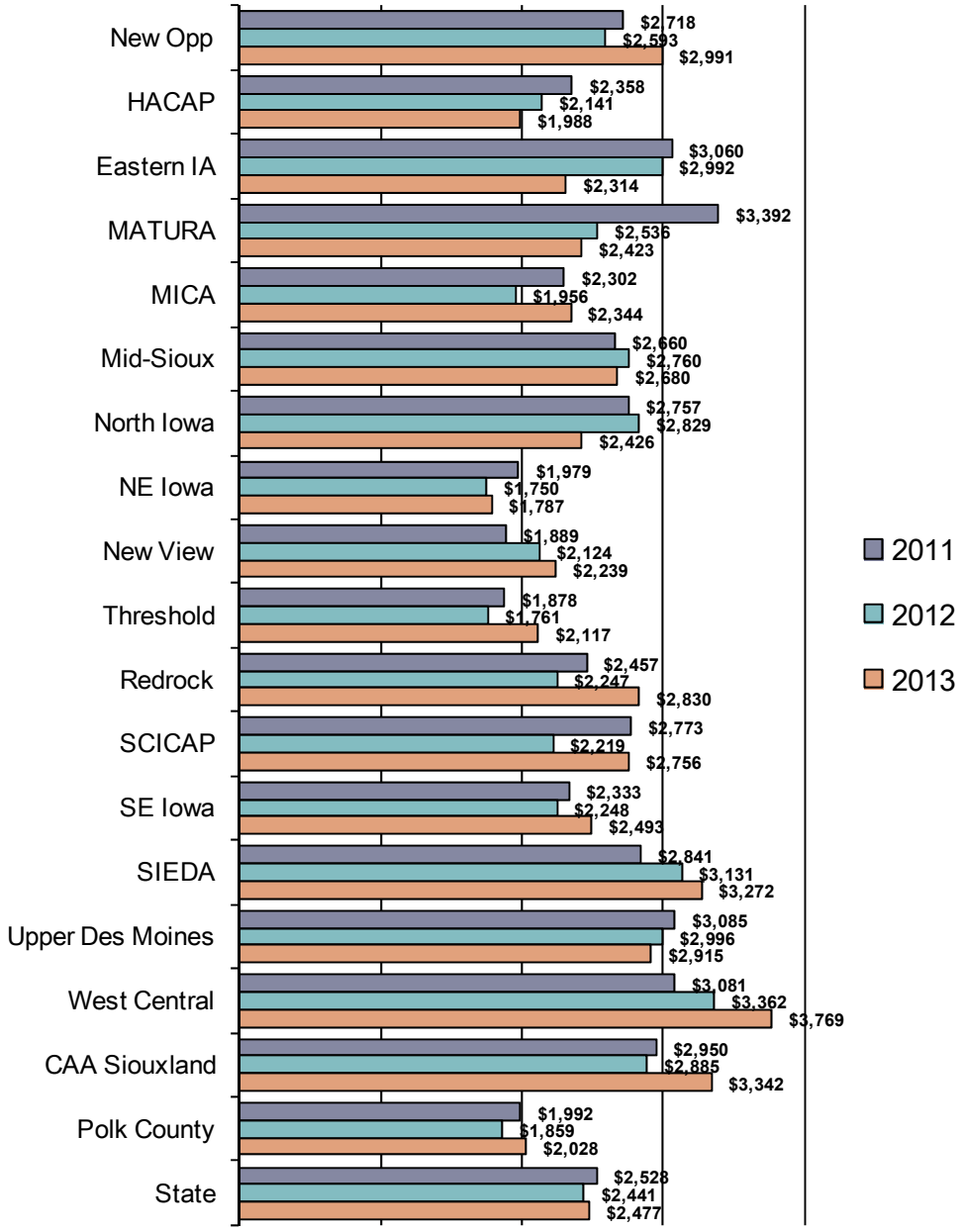

Figure 1.17a Average Program Expenditures on Heating System Replacements by Agency

Figure 1.17b shows the average utility funding for replacement heating systems of $2,088 statewide. West Central ($2,651) and CAA Siouxland ($2,600) averaged $2,600 or more. Threshold spent the least, at $1,647 per housing unit.

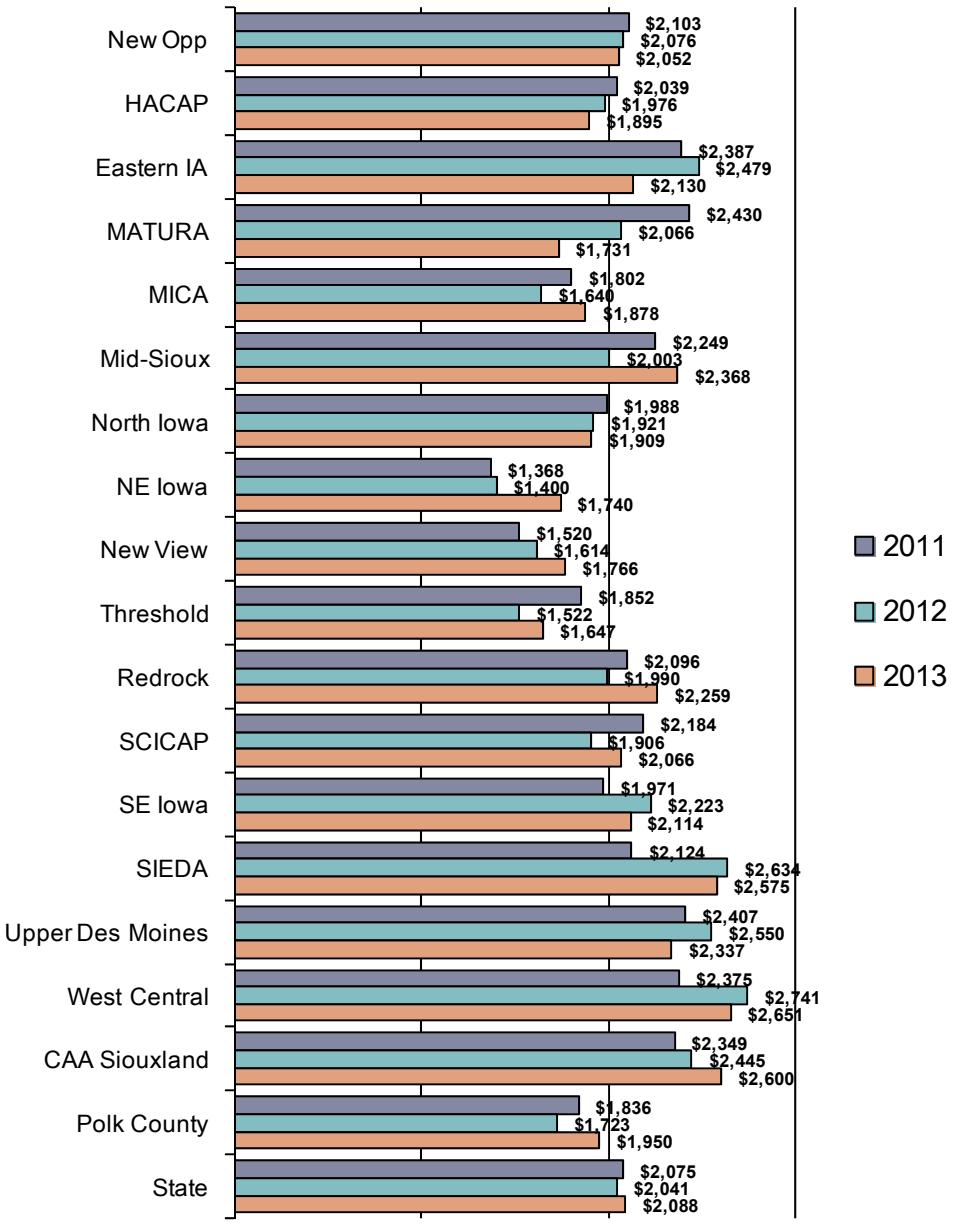

Figure 1.17b Average Utility Expenditures on Heating System Replacements by Agency

2. FUEL CONSUMPTION ANALYSIS

Savings were estimated for all clients based upon measures installed in each dwelling, using algorithms developed in prior studies of the Iowa low-income program. The fuel consumption analysis provides adjustment factors to the estimated impacts, with gas adjustments applied to estimates of natural gas, propane, and fuel oil heating impacts.

STUDY SAMPLE AND METHODOLOGY

Weatherization jobs completed from January 1, 2013 through December 31, 2013 comprised our treatment group.

We used a comparison group to adjust for non-weatherization program factors that affect fuel usage, including but not limited to fuel price shocks, naturally-occurring conservation, and participation in other energy programs. Our comparison group consisted of all LIHEAP clients who were natural gas customers of the SLICE utilities and who applied for energy assistance from October, 2013 through March, 2014. In order to assess a change in consumption for the comparison group, we established a pseudo-treatment period for each comparison group household by assigning the same period as that of a randomly selected household from the treatment group. The energy consumption tends to be lower for this group – consequently we weighted each comparison group dwelling in five usage bins so that our consumption of the weighted comparison group was similar to our treatment group.

Estimated readings were combined with subsequent actual readings. Phone/postcard readings and final or corrected readings were considered actual readings. Reading codes not corresponding to actual readings were considered estimated.

The weatherization period was defined as beginning with the audit date and ending with the date the dwelling was reported as complete. We truncated the usage data to a period of no more than to 390 days prior to the beginning of the weatherization period, and up to 390 days following end of the weatherization period.

Fuel consumption was weather-normalized using weather data from the same ten weather zones (Figure 2.1). Our long-term normal weather datasets are comprised of the 20-year period ending in Dec, 2009.

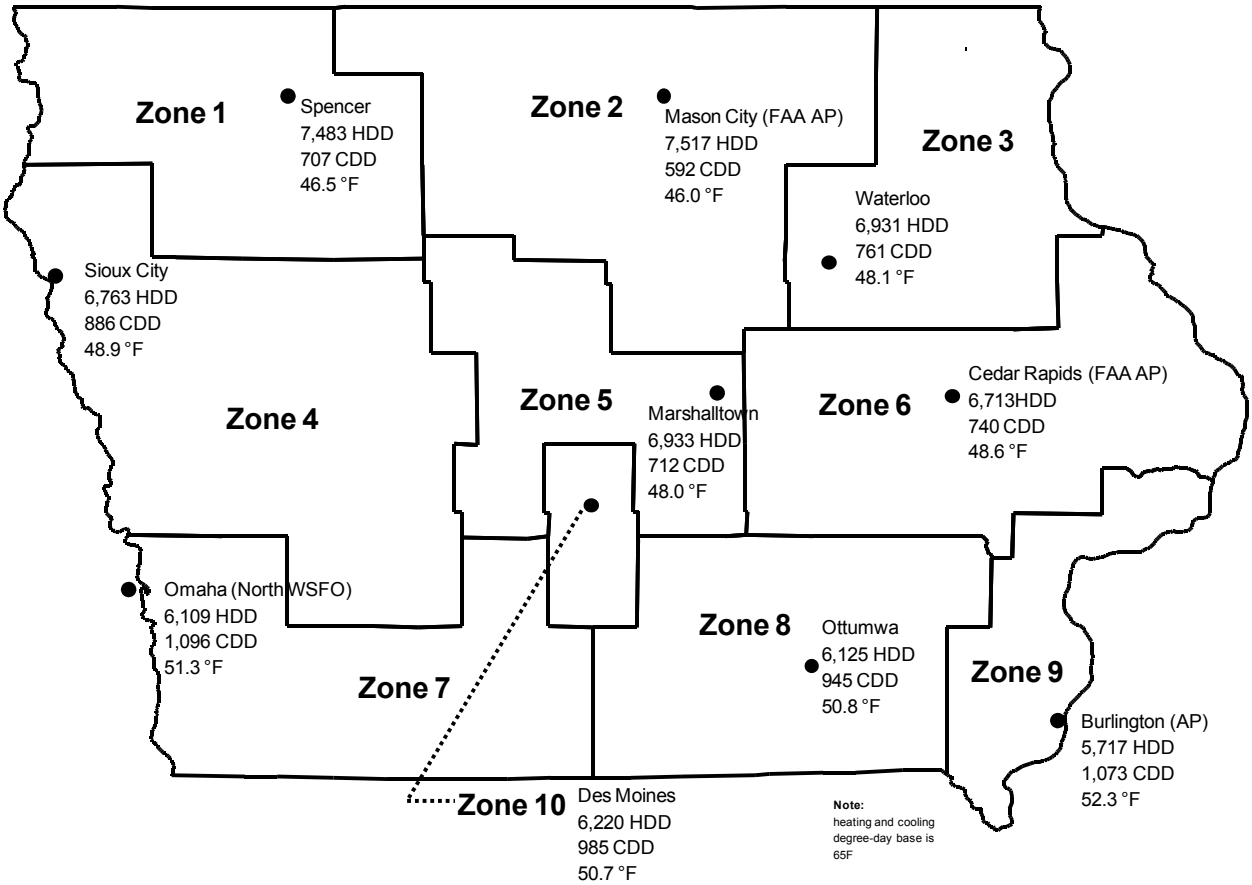

Figure 2.1. Weather zones used in the weather-normalization

MODEL SELECTION

We investigated impacts using five model specifications for each dwelling:

- Heating/Baseload (gas and electricity)
  - HB using floating point reference temperatures ranging between 40˚F to 70˚F
  - HBF using fixed reference temperatures of 62˚F for natural gas and 58˚F for electricity
- Cooling/Baseload (electricity only)
  - CB using floating point reference temperatures ranging between 60˚F to 80˚F
  - CBF using fixed reference temperatures of 68˚F
- Heating only (gas only)
  - HO using floating point reference temperatures ranging between 40˚F and 70˚F
  - HOF using fixed reference temperatures of 62˚F

- Heating/Cooling/Baseload (electricity only)
  - Heating floating point reference temperatures ranging between 40˚F and 70˚F
  - Cooling floating point reference temperatures ranging between 60˚F and 80˚F
  - HCF using fixed reference temperatures of 58˚F for heating and 68˚F for cooling
- BO Baseload (electricity and gas, but no gas models passed the selection process)
  - flat usage, requiring 8 ½ months of data

The models passing the usability criteria (as described in the following section) were evaluated using the Prediction Sum of Squares (PRESS) measure to determine the model with the best fit. The PRESS statistic was developed in 1974 as a method of cross-validating models with relatively small numbers of observations, whereby a model is fit against a subset of the data by dropping an observation, and the resulting model is used to predict the values for removed observation. This procedure is repeated for each observation in the data, and the square of the difference between the predicted value and the actual value are totaled. This total is the PRESS value.

The PRESS measurement is performed on all models: the model with the lowest PRESS value is selected.

In practice, we utilized a modified approach for models with floating reference temperatures. A strict conformance with the PRESS measure would require that the floating reference temperature be assessed for each fit of the model when an observation is removed. The full implementation would have resulted in literally hundreds of thousands of additional regressions, and time constraints prevented us from performing this level of assessment. Our alternative specification used the reference temperature as determined in the base model for fitting models in our PRESS calculations.

We have compared the results of models selected using the PRESS method with to those selected using R^2 and cvNAC screens and found that the mean normalized consumption compared similarly for most models, and in most cases the PRESS-selected model was the simpler specification. We reviewed cases with the greatest differences in the normalized consumption between the PRESS-selected models and alternative screens, and determined that the PRESS models provided a more reasonable representation of the usage in these cases.

ATTRITION ANALYSIS – GAS

We requested data for 1,415 weatherization client dwellings with gas heating and 56,298 LIHEAP client dwellings for our comparison group (also with gas heating). Our final analytic dataset included 829 weatherization client dwellings and 29,212 comparison dwellings, representing 56.6% and 51.9% of the requested usage histories for the treatment and comparison groups, respectively.

Three levels of screens were used, including:

1) Insufficient usage history or usage characteristics
2) Poor model diagnostics
3) Poor model reliability

SCREENS FOR POOR MODEL DIAGNOSTICS

Models were dropped if:

- the coefficient of variation exceeded 0.1
- negative values for adjusted r^2

SCREENS FOR POOR MODEL RELIABILITY

Models were dropped if:

- the normalized annual heating consumption, heating slope, or baseload components were negative
- Minimal requirements for specific model types:
  - Heating models require usage during periods representing at least 50% of the annual heating days
  - Baseload models required 8.5 months of consumption
- The normalized annual consumption was within 10% of the results for alternate model specifications where multiple models met other criteria

ATTRITION RATES

Table 2.1 provides a breakout of the attrition rates for the state and the utilities.

Table 2.1 Gas Analysis Sample Attrition

		State		IPL		BHC		MAE	
		Trt	Cmpr	Trt	Cmpr	Trt	Cmpr	Trt	Cmpr
Return Rate	Requested	1,415	56,298	449	16,021	197	9,379	769	30,898
Useable Histories	Pre Count	1,240	46,406	422	12,287	183	8,582	635	25,537
	Pre Percentage	87.6%	82.4%	94.0%	76.7%	92.9%	91.5%	82.6%	82.6%
	Post Count	1,208	49,194	396	15,136	178	8,407	634	25,651
	Post Percentage	85.4%	87.4%	88.2%	94.5%	90.4%	89.6%	82.4%	83.0%
	Both Pre and Pst Cnt	1,206	46,099	394	12,202	178	8,369	634	25,528
	Both Pre and Pst Pct	85.2%	81.9%	87.8%	76.2%	90.4%	89.2%	82.4%	82.6%
Passed Model Diagnostics	Pre Count	1,239	46,079	421	12,045	183	8,548	635	25,486
	Pre Percentage	87.6%	81.8%	93.8%	75.2%	92.9%	91.1%	82.6%	82.5%
	Post Count	1,204	49,107	392	15,065	178	8,393	634	25,649
	Post Percentage	85.1%	87.2%	87.3%	94.0%	90.4%	89.5%	82.4%	83.0%
	Both Pre and Pst Cnt	1,201	45,745	389	11,932	178	8,335	634	25,478
	Both Pre and Pst Pct	84.9%	81.3%	86.6%	74.5%	90.4%	88.9%	82.4%	82.5%
Passed Reliability Screens	Pre Count	1,150	41,151	382	10,223	165	7,505	603	23,423
	Pre Percentage	81.3%	73.1%	85.1%	63.8%	83.8%	80.0%	78.4%	75.8%
	Post Count	887	34,135	267	9,954	123	5,750	497	18,431
	Post Percentage	62.7%	60.6%	59.5%	62.1%	62.4%	61.3%	64.6%	59.7%
	Both Pre and Pst Cnt	829	29,212	245	7,007	111	5,164	473	17,041
	Both Pre and Pst Pct	58.6%	51.9%	54.6%	43.7%	56.3%	55.1%	61.5%	55.2%

The utilities returned useable data for 85% of the treatment client dwellings and 82% for the comparison group (LIHEAP) clients.

Less than 1% of useable histories were dropped due to failure of one or more of the model diagnostic criteria. Model reliability screens dropped accounted for 26% to 29% attrition. Ultimately, 59% of the requested treatment group clients and 52% of the comparison group clients had usage data suitable for the billing analysis.

Table 2.2 provides a the attrition analysis broken out by housing type. Overall, 61% of single family site-built dwellings were useable, and 51% of mobile homes from the treatment group were passed reliability screens. Essentially no data was returned for the few multi-family dwellings weatherized by the program.

Table 2.2 Gas Attrition by Housing Type

		State		IPL		BHC		MAE	
		Trt	Cmpr	Trt	Cmpr	Trt	Cmpr	Trt	Cmpr
Single Family Detached Framed Dwellings									
Requested		1,191	45,506	393	13,246	169	7,789	629	24,471
Passed Model	Both Pre and Pst Cnt	1,034	37,872	348	10,198	156	6,936	530	20,738
Diagnostics	Both Pre and Pst Pct	86.8%	83.2%	88.5%	77.0%	92.3%	89.0%	84.3%	84.7%
Passed Reliability	Both Pre and Pst Cnt	722	24,808	225	6,085	100	4,388	397	14,335
Screens	Both Pre and Pst Pct	60.6%	54.5%	57.3%	45.9%	59.2%	56.3%	63.1%	58.6%
Mobile Homes									
Requested		175	2,873	30	891	21	421	124	1,561
Passed Model	Both Pre and Pst Cnt	140	2,278	26	627	18	360	96	1,291
Diagnostics	Both Pre and Pst Pct	80.0%	79.3%	86.7%	70.4%	85.7%	85.5%	77.4%	82.7%
Passed Reliability	Both Pre and Pst Cnt	90	1,509	12	384	10	218	68	907
Screens	Both Pre and Pst Pct	51.4%	52.5%	40.0%	43.1%	47.6%	51.8%	54.8%	58.1%
Multi-Family									
Requested		49	7,919	26	1,884	7	1,169	16	4,866
Passed Model	Both Pre and Pst Cnt	27	5,595	15	1,107	4	1,039	8	3,449
Diagnostics	Both Pre and Pst Pct	2.3%	12.3%	57.7%	58.8%	57.1%	88.9%	50.0%	70.9%
Passed Reliability	Both Pre and Pst Cnt	17	2,895	8	538	1	558	8	1,799
Screens	Both Pre and Pst Pct	1.4%	6.4%	30.8%	28.6%	14.3%	47.7%	50.0%	37.0%

OUTLIERS

An outlier screen was then applied to models with reliable pre and post usage data. Results were flagged as outliers in cases where the absolute value of the median was greater than 2.5 times the inter-quartile range for pre treatment consumption and percentage savings followed by a 1% upper and lower trim.

The outlier screen dropped approximately 3% of treatment group observations with pre and post savings models.

GAS IMPACT ANALYSIS

Our results are summarized in Table 2.3. The agency-specific results are summarized on each line, with the overall program impacts summarized on the bottom line. The column labeled 'Population' provides the count of all dwellings with natural gas heating that were treated by the weatherization program during the calendar year. The treatment group columns indicate the number of dwellings in our screened analysis dataset ('n'), the weather-normalized annual consumption prior to weatherization ('Baseline' consumption), the 90% confidence interval on the baseline consumption (interpreted as the variation from baseline for which we are 90% certain that the true mean value of the baseline consumption falls within), the unadjusted savings ('Savings') and the 90% confidence interval on the savings.

The low-income energy assistance (LIHEAP) population provided the comparison group. We selected five comparison group dwellings with the nearest baseline consumption for each weatherized dwelling.

The next section of Table 2.3 (shaded) provides the net savings by agency, including average savings and percentage savings.

The rightmost section summarizes the average estimated savings which were developed using dwelling-specific measure data as well as a comparison between the estimated and observed savings, termed the realization rate. The realization rate is defined as the ratio of observed savings to estimated savings. Our final agency-specific results are developed by applying this ratio to the estimated savings for all dwellings with non-electric heating.

The overall adjusted savings (reported under the Net Savings column) averaged 236 therms for single family site-built dwellings. The 90% confidence interval was 13 therms, meaning that we are 90% certain that the true population mean savings falls in the range of 222 and 248 therms. The overall mean percent savings was 25.1%, with a 1.2% confidence interval.

Net gas savings for mobile homes averaged 124 therms ±29 therms. The overall percentage savings for mobile homes was 15.9%, with a 3.6% confidence interval.

Table 2.3 Gas Fuel Consumption Analysis Results

	Population n (with gas heating source)	Treatment Group					Comparison Group											
		n	Baseline Cons. (therms)	90% CI	Savings (therms)	90% CI	n	Baseline Cons. (therms)	90% CI	Savings (therms)	90% CI	Net Savings (therms)	90% CI	Percent Savings (%)	90% CI	Estimated Savings	90% CI	Realization Rate (%)
Single Family Detached Framed Dwelling Results																		
New Opportunities	49	25	951	71	228	49	54	862	52	-69	22	297	54	31.2%	5.3%	248	31	119.6%
HACAP	120	54	840	73	196	46	74	804	55	-12	16	208	48	24.8%	4.6%	240	28	86.9%
Eastern IA	75	42	936	86	225	48	77	1,001	74	-9	20	234	52	25.0%	4.2%	225	28	104.0%
MATURA	22	11	1,070	95	270	81	34	1,068	59	-58	36	328	89	30.6%	7.4%	212	45	154.5%
MICA	83	60	1,039	81	315	43	73	1,013	68	10	16	306	46	29.4%	3.8%	256	28	119.3%
Mid-Sioux	34	13	1,053	174	250	98	24	980	88	-63	30	314	103	29.8%	7.5%	259	71	121.2%
North Iowa	88	56	1,056	57	309	47	113	980	34	3	18	306	50	29.0%	4.2%	351	19	87.4%
NE Iowa	59	28	863	80	86	41	62	878	38	0	20	86	45	9.9%	5.1%	128	27	67.0%
New View	36	23	1,066	174	178	74	35	1,140	113	-58	33	236	81	22.1%	7.8%	228	49	103.2%
Threshold	98	59	992	75	227	43	78	882	64	-31	22	258	49	26.0%	4.2%	236	26	109.3%
Redrock	35	25	851	73	197	32	64	809	40	30	21	168	38	19.7%	4.0%	201	30	83.4%
SCICAP	28	11	758	155	161	99	30	910	97	-8	28	169	103	22.4%	8.7%	174	35	97.4%
SE Iowa	61	16	1,033	183	265	94	44	971	78	18	28	247	98	23.9%	9.8%	253	51	97.7%
SIEDA	38	18	1,043	99	249	71	14	1,065	160	-12	51	261	87	25.0%	8.5%	259	38	100.7%
Upper Des Moines	112	62	837	48	192	41	96	802	34	-41	14	233	44	27.8%	4.4%	213	19	109.0%
West Central	74	42	801	59	159	40	95	779	43	-30	17	189	43	23.6%	5.5%	162	24	116.9%
CAA Siouxland	62	38	1,003	79	187	56	54	967	65	-44	27	231	62	23.0%	5.5%	207	28	111.5%
Polk County	171	106	916	45	212	29	91	929	55	-14	18	227	34	24.8%	3.0%	288	16	78.7%
Overall	1,245	689	938	20	218	12	1,112	924	16	-18	5	236	13	25.1%	1.2%	239	7	98.8%
Mobile Homes Results (entire state)																		
Overall	180	80	780	39	121	25	110	763	34	-3	15	124	29	15.9%	3.6%	123	13	100.5%

Table 2.4 Fuel Consumption Analysis Results

	Percentage of Mobile Homes	
	Within Agency	State Overall
New Opportunities	0.0%	0.0%
HACAP	30.3%	27.1%
Eastern IA	19.8%	11.8%
MATURA	0.0%	0.0%
MICA	16.7%	10.4%
Mid-Sioux	6.3%	1.4%
North Iowa	0.9%	0.5%
NE Iowa	0.9%	0.5%
New View	24.1%	9.5%
Threshold	10.1%	5.4%
Redrock	7.3%	1.4%
SCICAP	11.5%	2.7%
SE Iowa	1.3%	0.5%
SIEDA	11.8%	5.0%
Upper Des Moines	0.7%	0.5%
West Central	2.0%	0.9%
CAA Siouxland	7.9%	3.2%
Polk County	19.5%	19.5%

The average savings of 124 therms for mobile homes are significantly lower than the 236 therms observed for single family site-built dwellings. HACAP weatherized the highest percentage of mobile homes, both within the agency and for the state overall – nearly 30% of all dwellings weatherized by HACAP during 2013 were mobile homes, and these accounted for 27% of all of the mobile homes weatherized in the state (Table 2.4). New View, Eastern Iowa, and Polk County also reported that mobile homes comprised nearly 20% or more of the total program completions for their agency.

SAVINGS WITH RESPECT TO PRE-WEATHERIZATION USAGE

We plotted the relationship between the normalized annual consumption and the net savings for single family site-built dwellings (Figure 2.2). The upward trending regression line indicates the population-weighted fit between NAC and savings, and demonstrates savings in relation to baseline consumption.

The 90% confidence intervals of the average adjusted savings for each agency are shown in the error bars. Agencies with confidence intervals overlapping the regression line produced savings consistent with the state overall for dwellings relative to the baseline consumption for those agencies. The confidence intervals on the savings for all of the agencies except NE Iowa spanned the regression line. The upper range of the confidence interval on savings for NE Iowa fell significantly short of the statewide trend, indicating relatively lower savings were attained by this agency.

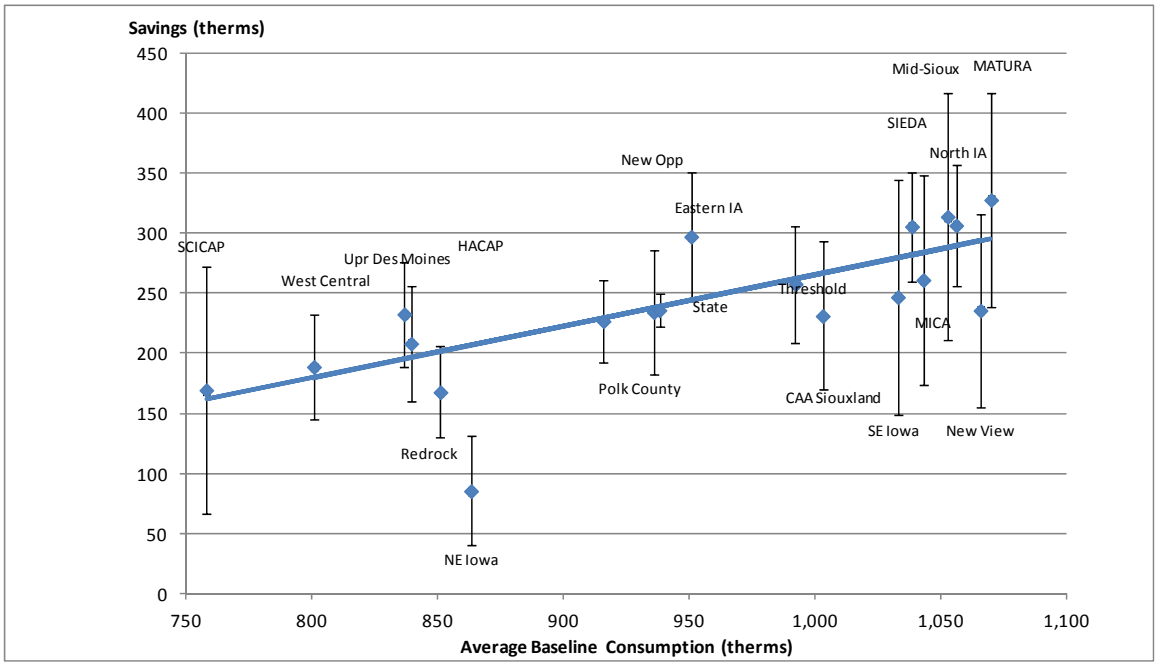

Figure 2.2 Savings in relation to the pre-weatherization normalized annual consumption (single family site-built dwellings).

Figure 2.3 provides another view of the savings with respect to baseline consumption. The plot shows a point for the savings for dwellings in our billing dataset, a regression line through all points, and an assessment of the percentage savings as determined by this regression line (shown by the curved line). The chart provides confirmation that absolute savings increase as higher-consumption dwellings are targeted. Percent savings increases significantly as baseline consumption increases at the lower range, and less so at higher ranges as the curve flattens out.

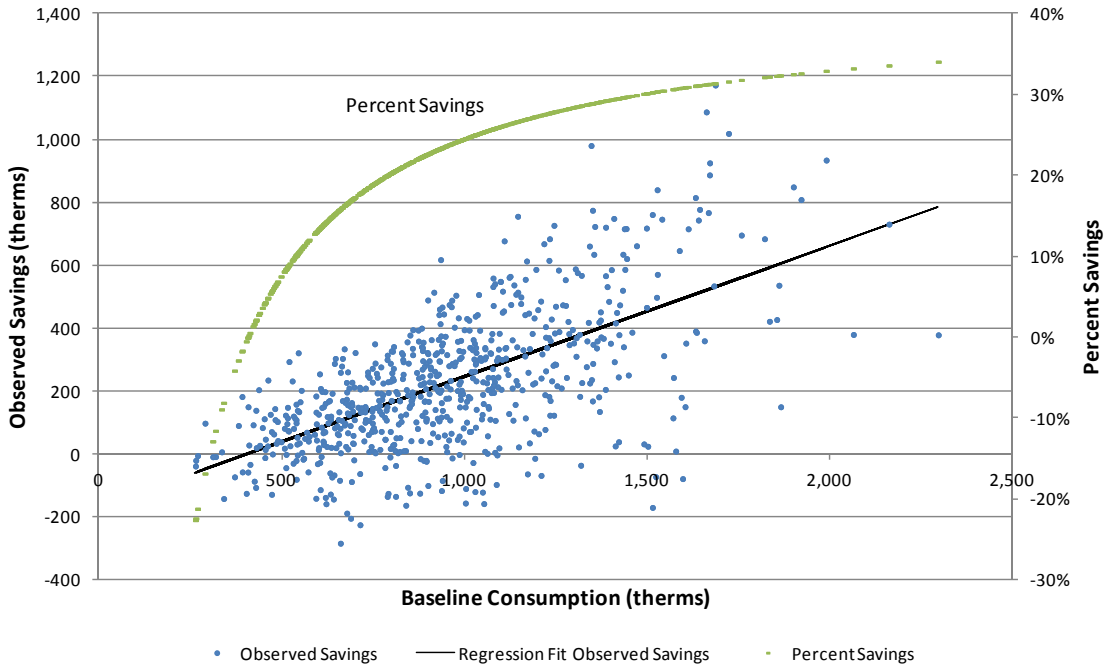

Figure 2.3. Relationship between baseline consumption, savings, and percentage savings

TRENDS IN BASELINE CONSUMPTION AND ENERGY SAVINGS

Figure 2.4 provides a yearly summary of baseline consumption, savings, and percentage savings for billing analyses conducted since the calendar year 1998 program. The treatment group normalized annual consumption approached 1,394 therms per site-built dwelling in the CY 1998 program. Baseline consumption has declined by 29% since then, to 938 in CY 2013. Net savings has declined over the same period, however percentage savings has remained in the 23% to 26% range (25.1% in the 2013 program).

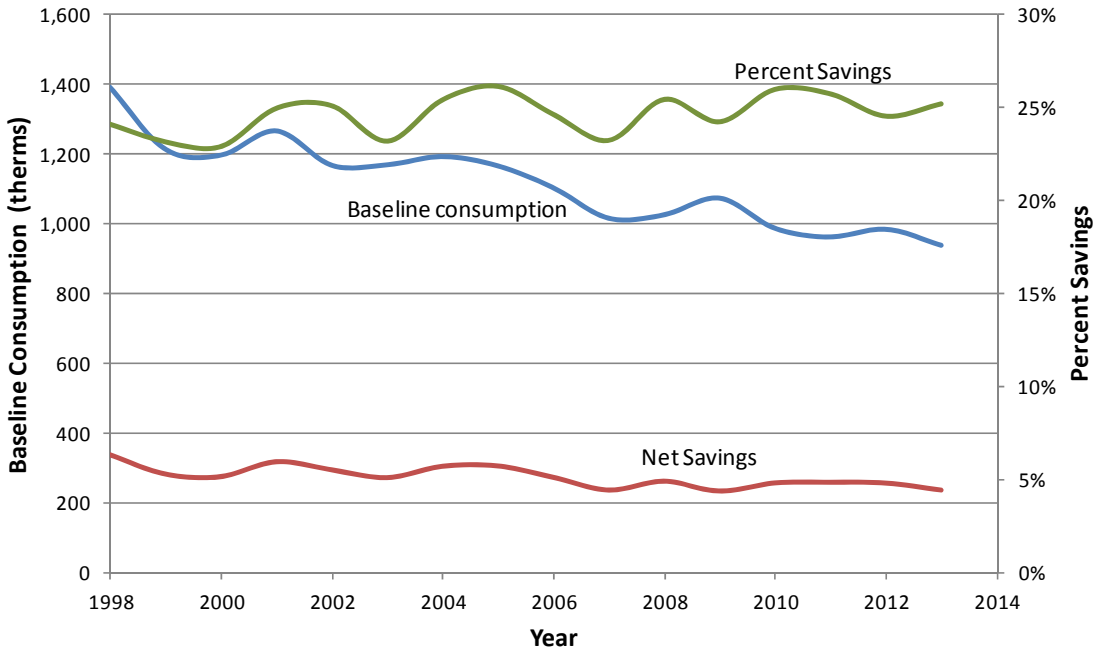

Figure 2.4 Annual Baseline Consumption, Savings, and Percentage Savings

ATTRITION ANALYSIS – ELECTRICITY

We requested data for 1,483 weatherization client dwellings and 68,417 LIHEAP client dwellings for our comparison group. Our final analytic dataset included 761 weatherization client dwellings and 29,872 comparison dwellings, resulting in overall attrition rates of 51% and 44% for the treatment and comparison groups, respectively.

Table 2.5 Electricity Analysis Sample Attrition

		State		IPL		MAE	
		Trt	Cmpr	Trt	Cmpr	Trt	Cmpr
Return Rate	Requested	1,483	68,417	730	32,725	753	35,692
Useable Histories	Pre Count	1,335	56,509	691	25,328	644	31,181
	Pre Percentage	90.0%	82.6%	94.7%	77.4%	85.5%	87.4%
	Post Count	1,287	62,800	643	31,442	644	31,358
	Post Percentage	86.8%	91.8%	88.1%	96.1%	85.5%	87.9%
	Both Pre and Pst Cnt	1,286	56,178	642	25,001	644	31,177
	Both Pre and Pst Pct	86.7%	82.1%	87.9%	76.4%	85.5%	87.4%
Passed Model Diagnostics	Pre Count	1,331	55,953	687	24,808	644	31,145
	Pre Percentage	89.8%	81.8%	94.1%	75.8%	85.5%	87.3%
	Post Count	1,281	62,558	637	31,204	644	31,354
	Post Percentage	86.4%	91.4%	87.3%	95.4%	85.5%	87.8%
	Both Pre and Pst Cnt	1,277	55,506	633	24,368	644	31,138
	Both Pre and Pst Pct	86.1%	81.1%	86.7%	74.5%	85.5%	87.2%
Passed Reliability Screens	Pre Count	1,205	47,754	609	20,983	596	26,771
	Pre Percentage	81.3%	69.8%	83.4%	64.1%	79.2%	75.0%
	Post Count	832	37,490	386	18,170	446	19,320
	Post Percentage	56.1%	54.8%	52.9%	55.5%	59.2%	54.1%
	Both Pre and Pst Cnt	761	29,872	349	12,978	412	16,894
	Both Pre and Pst Pct	51.3%	43.7%	47.8%	39.7%	54.7%	47.3%

The utilities returned useable data for 87% of the treatment client dwellings and 82% for the comparison group (LIHEAP) clients.

Approximately 1% of dwellings useable histories dropped due to failure of one or more of the model diagnostic criteria. Model reliability screens accounted for 27 to 30% attrition. Ultimately, 51% of the requested treatment group clients and 44% of the comparison group clients had usage data suitable for the billing analysis.

Table 2.6 provides a the attrition analysis broken out by housing type. Overall, 52% of single family site-built dwellings were useable, and 50% of mobile homes from the treatment group

were passed reliability screens. Essentially no data was returned for the few multi-family dwellings weatherized by the program.

Table 2.6 Electricity Attrition by Housing Type

		State		IPL		MAE	
		Trt	Cmpr	Trt	Cmpr	Trt	Cmpr
Single Family Detached Framed Dwellings							
Requested		1,267	50,291	621	24,286	646	26,005
Passed Model	Both Pre and Pst Cnt	1,114	41,614	549	18,637	565	22,977
Diagnostics	Both Pre and Pst Pct	87.9%	82.7%	88.4%	76.7%	87.5%	88.4%
Passed Reliability	Both Pre and Pst Cnt	663	22,662	302	9,963	361	12,699
Screens	Both Pre and Pst Pct	52.3%	45.1%	48.6%	41.0%	55.9%	48.8%
Mobile Homes							
Requested		167	2,698	78	1,310	89	1,388
Passed Model	Both Pre and Pst Cnt	140	2,112	69	939	71	1,173
Diagnostics	Both Pre and Pst Pct	83.8%	78.3%	88.5%	71.7%	79.8%	84.5%
Passed Reliability	Both Pre and Pst Cnt	83	1,157	37	485	46	672
Screens	Both Pre and Pst Pct	49.7%	42.9%	47.4%	37.0%	51.7%	48.4%
Multi-Family							
Requested		49	15,428	31	7,129	18	8,299
Passed Model	Both Pre and Pst Cnt	23	11,780	15	4,792	8	6,988
Diagnostics	Both Pre and Pst Pct	1.8%	23.4%	48.4%	67.2%	44.4%	84.2%
Passed Reliability	Both Pre and Pst Cnt	15	6,053	10	2,530	5	3,523
Screens	Both Pre and Pst Pct	1.2%	12.0%	32.3%	35.5%	27.8%	42.5%

OUTLIERS

The outlier screen dropped approximately 6% of treatment group observations with pre and post savings models.

ELECTRICITY IMPACT ANALYSIS

We developed state-level electricity savings results for two groups, those with non-electric space heat and for those with electric space heat.

Our results are summarized in Table 2.7.

Table 2.7 Electricity Fuel Consumption Analysis Results (State Level Results)

Treatment Group					Comparison Group											
n	Baseline Cons. (kWh)	90% CI	Savings (kWh)	90% CI	n	Baseline Cons. (kWh)	90% CI	Savings (kWh)	90% CI	Net Savings (kWh)	90% CI	Percent Savings (%)	90% CI	Estimated Savings (kWh)	90% CI	Realization Rate (%)
Electric Savings for Dwellings with Non-Electric Space Heat																
677	9,235	277	731	126	3,065	9,318	131	222	54	509	137	5.2%	1.4%	594	21	85.6%
Electric Savings for Dwellings with Electric Space Heat																
31	21,544	2,437	2,303	1,065	147	22,568	1,188	181	376	2,123	1,130	8.2%	5.0%	2,192	398	96.8%

Dwellings with non-electric space heat averaged 509 kWh savings from lighting, refrigerators and freezers, water heating, and cooling measures.

The average savings for dwellings with electric heat averaged 2,123 kWh per dwelling.

Overall, the weighted observed electricity savings were 86% of estimated for dwellings with non-electric heating, and 97% for dwellings with electric heat.

3. DETAILED SPENDING AND IMPACT PROFILES BY FUNDING ENTITY

This section provides tables of spending and impacts for the utilities, the state, and the overall program. The tables are designed to provide information to meet the filing requirements for cost recovery.

The summaries of impacts for state and utility funding are similar in format to those provided in the earlier SLICE reports.

We show a second table for each of the utilities in this report. These tables show the combined impacts of electricity and natural gas measures from all funding sources. These tables should prove useful for the energy and demand planning departments at the utilities to account for the aggregate impacts of the low-income program, and not just the impacts funded by a specific utility.

Combined State and Utility
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**1,849**	**1,826**	**1,484**	**229**	**16**	**3**	**1,825**	**1,696**	**9,600,235**	**329.6**		**215.9**		**1,122,196**	**3,701**	**355,483**	**65,297**	**2,968**	**73**	**5192.12**	**0.181**		**0.127**		**615**	**2.494**	**240**	**285**	**186**	**24**
Shell & Htg. Sys.	1,846	1,650	1,482	228	16	3	1,643	117	8,138,006	267.2	322,219	122.0	185,293	507,513	3,522	322,462	62,154	2,968	73	4408.45	0.163	196	1.043	1,584	308	2.376	218	273	186	24
Wall Insul.	1,089	952	905	128	10	2	949	44	1,622,336	99.96	120,553	23.79	36,064	156,617	833	76,499	12,747	612	24	1489.75	0.105	127	0.541	820	165	0.920	85	100	61	12
Open Blown Ceiling Insul.	1,447	1,299	1,169	171	13	2	1,292	92	1,062,053	98.83	119,192	52.64	80,094	199,285	675	61,800	10,400	745	23	733.97	0.076	92	0.572	871	153	0.578	53	61	57	11
Cavity Fil Insul.	413	327	334	50	5	1	325	23	312,066	13.84	16,693	10.69	16,431	33,124	210	19,487	3,775	76	2	755.61	0.043	51	0.465	714	101	0.628	58	76	15	2
Sloped Attic Insul.	499	419	410	59	3	1	416	26	197,609	17.55	21,161	9.45	14,204	35,365	187	17,078	2,581	52	4	396.01	0.042	51	0.363	546	84	0.455	42	44	17	4
Kneewall Insul.	360	304	304	35	3	1	301	17	132,665	5.42	6,535	2.97	4,479	11,013	64	5,937	398	90	0	368.51	0.018	22	0.175	263	36	0.211	20	11	30	0
Infil. Reduction	1,803	1,618	1,452	223	16	3	1,612	109	1,002,359	19.23	23,194	11.11	16,741	39,935	268	24,403	4,249	154	4	555.94	0.012	14	0.102	154	25	0.184	17	19	10	1
Found./Crawl. Insul.	774	285	603	118	7	2	271	44	540,946	12.35	14,892	8.95	13,726	28,618	146	13,353	2,738	69	2	698.90	0.046	55	0.203	312	100	0.242	22	23	10	1
Bandjoist Insul.	711	40	537	126	7	1	-	40	116,901	0.00	0	1.87	2,809	2,809	33	3,045	739	34	1	164.42	-	-	0.047	70	70	0.062	6	6	5	1
Exhaust Ventilation	362	24	302	32	4	0	-	24	367,224	0.00	0	-2.08	(3,191)	(3,191)	(20)	(1,852)	(203)	(17)	0	1014.43	-	-	-0.086	(133)	(133)	-0.067	-6	-6	-4	-
Condensing Htg Sys Repl	928	0	792	125	10	1	-	-	2,235,242	0.00	0	0.00	0	0	1,018	92,756	21,932	1,089	12	2408.67	-	-	-	-	-	1.285	117	175	109	12
Non-Cond Htg Sys Repl	145	0	119	26	0	0	-	-	401,136	0.00	0	0.00	0	0	109	9,955	2,495	0	0	2766.45	-	-	-	-	-	0.914	84	96	-	-
Electric Htg Sys Repl	38	36	0	2	0	0	-	36	110,995	0.00	0	2.24	3,390	3,390	0	0	304	0	0	2920.93	-	-	0.062	94	89	-	-	152	-	-
Heat Pump Repl	7	6	0	0	1	0	-	6	36,472	0.00	0	0.37	547	547	0	0	0	63	0	5210.29	-	-	0.061	91	78	-	-	-	63	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	1,740	485	1,153	102	0	0	3,960	972	2,742	246	0	0	1,047,469	0.0	0.8	54,248	178.6	33,021	3,144	0	0	601.99	0.000	0.002	112	0.155	29	31	-	-
Temp. Reduct.	228	79	138	11	0	0	228	79	138	11	0	0	0	0.00	0.01	7,259	3.4	1,172	90	0	0	0.00	0.000	0.000	92	0.024	8	8	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	1,388	403	909	76	0	0	1,388	403	909	76	0	0	6,880	0.00	0.03	13,656	8.8	3,052	294	0	0	4.96	0.000	0.000	34	0.010	3	4	-	-
LF Showerhead	401	101	279	21	0	0	409	102	283	24	0	0	3,602	0.00	0.32	14,132	7.6	2,353	210	0	0	8.98	0.000	0.003	140	0.027	8	10	-	-
Faucet Aerator	611	155	423	33	0	0	1,043	262	717	64	0	0	2,612	0.00	0.16	6,858	3.7	1,148	114	0	0	4.28	0.000	0.001	44	0.009	3	3	-	-
Std-Eff Wtr Htr Repl.	173	6	135	32	0	0	173	6	135	32	0	0	189,839	0.00	0.00	139	19.4	3,170	903	0	0	1097.33	0.000	0.001	23	0.144	23	28	-	-
Hi-Eff Wtr Htr Repl.	719	120	560	39	0	0	719	120	560	39	0	0	844 536	0.00	0.30	12 204	135.6	22 125	1 531	0	0	1174.60	0.000	0.003	102	0.242	40	39	-	-
Lighting	1,593	1,593					15,884	15,884					95,718	38.0	70.2	362,005	-	-	-	-	-	60.09	0.024	0.044	227	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	3	3					16	16					112	0.02	0.04	215	-	-	-	-	-	37.33	0.008	0.014	72	-	-	-	-	-
CFL (11W)	211	211					1,703	1,703					11,569	2.27	4.19	21,615	-	-	-	-	-	54.83	0.011	0.020	102	-	-	-	-	-
CFL (13W)	70	70					488	488					3,366	0.61	1.13	5,802	-	-	-	-	-	48.09	0.009	0.016	83	-	-	-	-	-
CFL (14W)	1	1					5	5					34	0.01	0.02	100	-	-	-	-	-	34.10	0.010	0.019	100	-	-	-	-	-
CFL (15W)	826	826					6,529	6,529					34,646	13.49	24.92	128,454	-	-	-	-	-	41.94	0.016	0.030	156	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	411	411					3,402	3,402					22,876	8.54	15.77	81,301	-	-	-	-	-	55.66	0.021	0.038	198	-	-	-	-	-
CFL (23W)	425	425					2,096	2,096					10,902	7.43	13.72	70,728	-	-	-	-	-	25.65	0.017	0.032	166	-	-	-	-	-
CFL (25W)	130	130					1,520	1,520					10,613	5.20	9.62	49,569	-	-	-	-	-	81.64	0.040	0.074	381	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	87	87					125	125					1 600	0.44	0.82	4 220	-	-	-	-	-	18.39	0.005	0.009	49	-	-	-	-	-
Refrigerator/Freezer	458	458					497	497					319 042	24.41	22.82	198 431	-	-	-	-	-	696.60	0.053	0.050	433					
Refrigerator Removal	4	4					4	4					88	0.19	0.18	1,566	-	-	-	-	-	22.00	0.048	0.045	391	-	-	-	-	-
Refrigerator Exchange	395	395					403	403					275,619	19.55	18.28	158,958	-	-	-	-	-	697.77	0.049	0.046	402	-	-	-	-	-
Freezer Removal	1	1					1	1					25	0.05	0.05	417	-	-	-	-	-	25.00	0.051	0.048	417	-	-	-	-	-
Freezer Exchange	87	87					89	89					43,310	4.61	4.31	37,490	-	-	-	-	-	497.81	0.053	0.050	431	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 1850 Total Households with Spending and/or Energy Impacts:

Total		**8,121,395**	**4389.94**
Unspecified Insul.	1,471	333,153	226.48
Duct Sealing	570	99,444	174.46
Duct Insulation	752	56,139	74.65
Damming Material	827	34,023	41.14
Htg. Sys. Tune & Clean	731	113,462	155.21
Htg. Sys./WH Other	496	224,704	453.03
Air Conditioning Work	63	9,733	154.48
Water Heater Repair	180	18,418	102.32
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	20	1,963	98.14
Unspecified Utility Meas.	0	0	0.00
CO Detector	1,500	74,095	49.40
Smoke Detector	1,109	52,190	47.06
Fuses	2	44	21.84
Htg Sys Safety Check	277	37,383	134.96
Htg Sys Ventilation	616	146,618	238.02
Water Heater Ventilation	376	79,927	212.57
Bathroom Ventilation	860	144,309	167.80
Dryer Exhaust Ventilation	1,032	90,102	87.31
Other Exhaust Ventilation	1,151	468,752	407.26
Health/Safety Repairs	815	129,037	158.33
Health/Safety Other	292	23 759	81.37
Consumables	337	11,081	32.88
General Repairs	1 635	1 039 839	635.99
Meter Refrig (no action)	1,297	0	0.00
Meter Freezer (no action)	549	0	0.00
Support	1,770	4,656,124	2630.58
Transportation Allowance	316	54,147	171.35
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	891	221,071	248.12
Unspecifed	29	1,878	64.77
Total Reported Materials, Labor, and Support Costs:		**17,721,630**	**9,579.26**
Grand Total of Expenditures:		**17,721,630**	

DCAA Only
Calendar Year 2013
Costs, Fuel, and Demand Impacts for DCAA-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**1,823**	**1,642**	**1,428**	**229**	**16**	**3**	**1,637**	**846**	**5,273,084**	**142.2**		**121.4**		**534,524**	**1,440**	**138,176**	**65,297**	**2,968**	**73**	**2892.53**	**0.087**		**0.143**		**326**	**1.008**	**97**	**285**	**186**	**24**
Shell & Htg. Sys.	1,809	1,542	1,418	228	16	3	1,533	112	4,522,241	115.4	139,225	82.2	124,207	263,432	1,369	125,034	62,154	2,968	73	2499.86	0.075	91	0.734	1,109	171	0.965	88	273	186	24
Wall Insul.	588	434	346	128	10	2	433	30	656,217	38.36	46,264	13.64	20,590	66,854	251	23,047	12,747	612	24	1116.02	0.089	107	0.455	686	154	0.726	67	100	61	12
Open Blown Ceiling Insul.	789	596	428	171	13	2	591	62	461,920	40.44	48,766	39.13	59,188	107,954	238	21,722	10,400	745	23	585.45	0.068	83	0.631	955	181	0.557	51	61	57	11
Cavity Fil Insul.	227	155	122	50	5	1	153	15	134,564	5.97	7,197	5.33	8,075	15,272	74	6,829	3,775	76	2	592.79	0.039	47	0.355	538	99	0.605	56	76	15	2
Sloped Attic Insul.	254	178	138	59	3	1	175	15	80,910	7.18	8,655	6.17	9,206	17,861	60	5,461	2,581	52	4	318.54	0.041	49	0.411	614	100	0.434	40	44	17	4
Kneewall Insul.	186	132	113	35	3	1	130	11	53,004	2.25	2,711	1.84	2,817	5,528	25	2,341	398	90	0	284.97	0.017	21	0.167	256	42	0.224	21	11	30	0
Infil. Reduction	1,738	1,481	1,334	223	16	3	1,475	103	829,613	15.65	18,880	9.80	14,788	33,669	211	19,274	4,249	154	4	477.34	0.011	13	0.095	144	23	0.158	14	19	10	1
Found./Crawl. Insul.	426	146	252	118	7	2	137	30	254,848	5.60	6,751	4.46	6,796	13,547	56	5,149	2,738	69	2	598.23	0.041	49	0.149	227	93	0.224	20	23	10	1
Bandjoist Insul.	340	26	180	126	7	1	-	26	65,239	0.00	0	1.48	2,225	2,225	13	1,166	739	34	1	191.88	-	-	0.057	86	86	0.070	6	6	5	1
Exhaust Ventilation	362	24	302	32	4	0	-	24	367,224	0.00	0	-2.08	(3,191)	(3,191)	(20)	(1,852)	(203)	(17)	0	1014.43	-	-	-0.086	(133)	(133)	-0.067	-6	-6	-4	-
Condensing Htg Sys Repl	468	0	332	125	10	1	-	-	1,072,844	0.00	0	0.00	0	0	351	31,943	21,932	1,089	12	2292.40	-	-	-	-	-	1.058	96	175	109	12
Non-Cond Htg Sys Repl	145	0	119	26	0	0	-	-	401,136	0.00	0	0.00	0	0	109	9,955	2,495	0	0	2766.45	-	-	-	-	-	0.914	84	96	-	-
Electric Htg Sys Repl	36	34	0	2	0	0	-	34	108,251	0.00	0	2.08	3,166	3,166	0	0	304	0	0	3006.96	-	-	0.061	93	88	-	-	152	-	-
Heat Pump Repl	7	6	0	0	1	0	-	6	36,472	0.00	0	0.37	547	547	0	0	0	63	0	5210.29	-	-	0.061	91	78	-	-	-	63	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	975	271	602	102	0	0	1,938	551	1,141	246	0	0	558,741	0.0	0.5	32,620	70.8	13,142	3,144	0	0	573.07	0.000	0.002	120	0.118	22	31	-	-
Temp. Reduct.	139	53	75	11	0	0	139	53	75	11	0	0	0	0.00	0.01	4,968	1.8	641	90	0	0	0.00	0.000	0.000	94	0.025	9	8	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	635	204	355	76	0	0	635	204	355	76	0	0	3,147	0.00	0.01	6,984	3.4	1,168	294	0	0	4.96	0.000	0.000	34	0.009	3	4	-	-
LF Showerhead	190	58	111	21	0	0	195	58	113	24	0	0	1,764	0.00	0.18	8,100	2.9	881	210	0	0	9.29	0.000	0.003	140	0.026	8	10	-	-
Faucet Aerator	286	85	168	33	0	0	507	146	297	64	0	0	1,292	0.00	0.09	3,813	1.5	450	114	0	0	4.52	0.000	0.001	45	0.009	3	3	-	-
Std-Eff Wtr Htr Repl.	173	6	135	32	0	0	173	6	135	32	0	0	189,839	0.00	0.00	139	19.4	3,170	903	0	0	1097.33	0.000	0.001	23	0.144	23	28	-	-
Hi-Eff Wtr Htr Repl.	381	85	257	39	0	0	289	84	166	39	0	0	362 699	0.00	0.21	8 617	41.9	6 832	1 531	0	0	951.97	0.000	0.003	101	0.163	27	39	-	-
Lighting	638	638					6,287	6,287					38,793	14.9	27.6	142,034	-	-	-	-	-	60.80	0.023	0.043	223	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	2	2					12	12					84	0.02	0.03	161	-	-	-	-	-	42.00	0.008	0.016	81	-	-	-	-	-
CFL (11W)	95	95					772	772					5,288	1.04	1.91	9,861	-	-	-	-	-	55.66	0.011	0.020	104	-	-	-	-	-
CFL (13W)	31	31					233	233					1,599	0.29	0.54	2,775	-	-	-	-	-	51.57	0.009	0.017	90	-	-	-	-	-
CFL (14W)	1	1					5	5					34	0.01	0.02	100	-	-	-	-	-	34.10	0.010	0.019	100	-	-	-	-	-
CFL (15W)	306	306					2,304	2,304					12,494	4.79	8.85	45,616	-	-	-	-	-	40.83	0.016	0.029	149	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	188	188					1,651	1,651					11,238	4.15	7.67	39,533	-	-	-	-	-	59.78	0.022	0.041	210	-	-	-	-	-
CFL (23W)	152	152					731	731					3,736	2.61	4.83	24,904	-	-	-	-	-	24.58	0.017	0.032	164	-	-	-	-	-
CFL (25W)	48	48					528	528					3,696	1.82	3.37	17,353	-	-	-	-	-	77.00	0.038	0.070	362	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	36	36					51	51					624	0.18	0.34	1 731	-	-	-	-	-	17.33	0.005	0.009	48	-	-	-	-	-
Refrigerator/Freezer	281	281					239	239					153 308	11.86	11.09	96 439	-	-	-	-	-	545.58	0.042	0.039	343					
Refrigerator Removal	3	3					3	3					79	0.14	0.14	1,174	-	-	-	-	-	26.33	0.048	0.045	391	-	-	-	-	-
Refrigerator Exchange	235	235					178	178					125,554	8.70	8.13	70,738	-	-	-	-	-	534.27	0.037	0.035	301	-	-	-	-	-
Freezer Removal	1	1					1	1					25	0.05	0.05	417	-	-	-	-	-	25.00	0.051	0.048	417	-	-	-	-	-
Freezer Exchange	64	64					57	57					27,651	2.97	2.77	24,110	-	-	-	-	-	432.04	0.046	0.043	377	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 1850 Total Households with Spending and/or Energy Impacts:

Total		**7,424,227**	**4013.10**
Unspecified Insul.	1,439	304,395	211.53
Duct Sealing	568	99,329	174.87
Duct Insulation	749	55,811	74.51
Damming Material	827	34,023	41.14
Htg. Sys. Tune & Clean	564	80,146	142.10
Htg. Sys./WH Other	496	224,704	453.03
Air Conditioning Work	63	9,733	154.48
Water Heater Repair	180	18,418	102.32
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	3	214	71.33
Unspecified Utility Meas.	0	0	0.00
CO Detector	1,497	73,975	49.42
Smoke Detector	1,109	52,190	47.06
Fuses	2	44	21.84
Htg Sys Safety Check	277	37,383	134.96
Htg Sys Ventilation	488	112,987	231.53
Water Heater Ventilation	249	57,234	229.86
Bathroom Ventilation	860	144,309	167.80
Dryer Exhaust Ventilation	1,032	90,102	87.31
Other Exhaust Ventilation	1,151	468,752	407.26
Health/Safety Repairs	714	123,087	172.39
Health/Safety Other	292	23 759	81.37
Consumables	337	11,081	32.88
General Repairs	1 495	935 682	625.87
Meter Refrig (no action)	920	0	0.00
Meter Freezer (no action)	383	0	0.00
Support	1,725	4,189,828	2428.89
Transportation Allowance	316	54,147	171.35
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	891	221,071	248.12
Unspecifed	24	1,823	75.97
Total Reported Materials, Labor, and Support Costs:		**12,697,311**	**6,863.41**
Grand Total of Expenditures:		**12,697,311**	

Alliant Energy - IPC
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by Season		Estimated First-Year Savings								Average Estimated First Year Measure Cost and Savings Average per Treated Household						
						Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Pk Day therms	Gas Annual therms	Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Pk Day therms	Gas Annual therms
	Total	Electric	Gas	Cooling	Heating																
OVERALL (Energy Mea)	**745**	**632**	**403**	**632**	**566**	**1,856,861**	**99.9**		**45.7**		**306,547**	**954**	**90,779**	**2492.43**	**0.158**		**0.081**		**485**	**2.367**	**225**
Shell & Htg. Sys.	644	497	397	494	22	1,577,995	81.1	97,860	17.1	26,160	124,020	920	84,486	2450.30	0.164	198	0.779	1,189	250	2.317	213
Wall Insul.	422	338	270	337	10	447,986	33.21	40,055	6.01	9,248	49,303	263	24,175	1061.58	0.099	119	0.601	925	146	0.973	90
Open Blown Ceiing Insul.	533	421	323	419	16	253,278	29.71	35,833	5.02	7,644	43,476	173	15,847	475.19	0.071	86	0.313	478	103	0.535	49
Cavity Fill Insul.	150	109	102	109	1	75,447	4.26	5,137	0.33	530	5,667	57	5,363	502.98	0.039	47	0.325	530	52	0.561	53
Sloped Attic Insul.	198	150	132	150	5	55,813	5.96	7,188	1.92	2,958	10,146	61	5,663	281.88	0.040	48	0.385	592	68	0.465	43
Kneewall Insul.	130	102	93	101	2	40,153	1.51	1,823	0.67	965	2,788	15	1,406	308.87	0.015	18	0.334	483	27	0.160	15
Infl. Reduction	331	242	246	241	16	91,784	1.82	2,190	0.83	1,241	3,431	25	2,246	277.29	0.008	9	0.052	78	14	0.101	9
Found./Crawl. Insul.	232	107	165	105	11	118,312	4.67	5,634	1.95	2,953	8,586	29	2,618	509.96	0.044	54	0.178	268	80	0.173	16
Bandjoist Insul.	189	12	177	-	12	29,867	0.00	0	0.33	506	506	11	1,002	158.03	-	-	0.028	42	42	0.062	6
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	224	0	224	-	-	465,010	0.00	0	0.00	0	0	287	26,166	2075.94	-	-	-	-	-	1.280	117
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	1	1	0	-	1	347	0.00	0	0.08	116	116	0	0	346.50	-	-	0.079	116	116	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
	Total	Electric	Gas	Number of Measures by Fuel Type Total	Electric	Gas		Summer kW		Winter kW		Annual kWh	Pk Day therms	Annual therms		Summer kW		Winter kW		Annual kWh	Pk Day therms	Annual therms
Water Heating	396	153	243	769	267	502	157,507	0.0		0.2		13,560	34.1	6,293	397.74	0.000		0.001		89	0.140	26
Temp. Reduct.	52	21	31	52	21	31	0	0.00		0.00		1,851	0.7	248	0.00	0.000		0.000		88	0.023	8
WH Wrap	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.00	-		-		-	-	-
Pipe Insul.	279	126	153	279	126	153	1,181	0.00		0.01		4,196	1.5	530	4.23	0.000		0.000		33	0.010	3
LF Showerhead	81	27	54	81	27	54	542	0.00		0.08		3,703	1.5	455	6.69	0.000		0.003		137	0.027	8
Faucet Aerator	130	44	86	213	74	139	406	0.00		0.04		1,917	0.7	220	3.13	0.000		0.001		44	0.008	3
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.00	-		-		-	-	-
Hi-Eff Wtr Htr Repl.	151	19	132	144	19	125	155 377	0.00		0.05		1 894	29.7	4 840	1028.99	0.000		0.002		100	0.225	37
Lighting	526	526		5,053	5,053		26,521	11.8		21.9		112,768	-	-	50.42	0.023		0.042		214	-	-
CFL (5W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (7W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (9W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (11W)	37	37		323	323		2,050	0.43		0.79		4,064	-	-	55.41	0.012		0.021		110	-	-
CFL (13W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (14W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (15W)	388	388		3,348	3,348		16,751	6.90		12.74		65,695	-	-	43.17	0.018		0.033		169	-	-
CFL (18W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (20W)	53	53		280	280		1,365	0.70		1.30		6,694	-	-	25.75	0.013		0.025		126	-	-
CFL (23W)	132	132		519	519		2,256	1.82		3.37		17,366	-	-	17.09	0.014		0.026		132	-	-
CFL (25W)	44	44		566	566		3,919	1.93		3.57		18,382	-	-	89.06	0.044		0.081		418	-	-
CFL (30W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL unknown	13	13		17	17		180	0.06		0.11		567	-	-	13.86	0.005		0.008		44	-	-
Refrigerator/Freezer	144	144		142	142		94 838	6.91		6.46		56 200	-	-	658.60	0.048		0.045		390		
Refrigerator Removal	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
Refrigerator Exchange	130	130		124	124		85,741	6.00		5.61		48,791	-	-	659.54	0.046		0.043		375	-	-
Freezer Removal	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
Freezer Exchange	19	19		18	18		9,098	0.91		0.85		7,409	-	-	478.82	0.048		0.045		390	-	-

Costs for Measures Without Energy Impacts Installed in 750 Total Households with Spending and/or Energy Impacts:

Total		**301,048**	**401.40**
Unspecified Insul.	101	13,055	129.26
Duct Sealing	2	115	57.50
Duct Insulation	1	90	89.58
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	106	11,264	106.26
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	5	500	100.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	94	11,281	120.01
Water Heater Ventilation	58	6,212	107.11
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Ventilation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	61	2,787	45.68
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	266	52 307	196.64
Meter Refrig (no action)	178	0	0.00
Meter Freezer (no action)	74	0	0.00
Support	679	203,398	299.55
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	4	40	10.00

Total Reported Materials, Labor, and Support Costs:	**2,157,909**
Utility Expenditures for Administration:	**109,157**
Grand Total of Expenditures:	**2,267,066**

2,877.21

Alliant Energy - IPC
Calendar Year 2013
Fuel and Demand Impacts For All Customer Households from All Measures (All Federal, State, and Utility Funding Sources)

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use		Estimated First-Year Savings							Average per Treated Household						
						Electricity					Gas		Electricity					Gas	
	Total	Electric	Gas	Cooling	Heating	Summer kW	kWh	Winter kW	kWh	Annual kWh	Pk-Day therms	Annual therms	Summer kW	kWh	Winter kW	kWh	Annual kWh	Pk-Day therms	Annual therms
OVERALL	**828**	**716**	**449**	**716**	**650**	**120.6**		**57.5**		**374,899**	**1,206**	**115,811**	**0.168**		**0.089**		**524**	**2.687**	**258**
Shell & Htg. Sys.	780	628	449	625	33	98.3	118,585	24.1	36,670	155,255	1,155	106,374	0.157	190	0.731	1,111	247	2.571	237
Wall Insul.	474	380	304	379	12	37.77	45,556	6.61	10,135	55,691	306	28,251	0.100	120	0.551	845	147	1.006	93
Open Blown Ceiling Insul.	610	486	366	483	23	34.31	41,379	7.65	11,561	52,940	196	18,068	0.071	86	0.333	503	109	0.535	49
Cavity Fill Insul.	176	127	122	127	1	5.15	6,209	0.33	530	6,740	71	6,664	0.041	49	0.325	530	53	0.582	55
Sloped Attic Insul.	233	176	155	175	6	6.91	8,329	2.36	3,631	11,960	70	6,506	0.039	48	0.394	605	68	0.454	42
Kneewall Insul.	151	121	103	119	3	1.84	2,223	0.68	978	3,201	19	1,820	0.015	19	0.225	326	26	0.186	18
Infil. Reduction	765	619	440	616	31	6.89	8,304	2.91	4,390	12,695	79	7,227	0.011	13	0.094	142	21	0.180	16
Found./Crawl. Insul.	268	125	190	122	13	5.46	6,583	2.79	4,234	10,817	34	3,156	0.045	54	0.215	326	87	0.181	17
Bandjoist Insul.	221	14	207	-	14	0.00	0	0.57	864	864	13	1,234	-	-	0.041	62	62	0.065	6
Exhaust Ventilation	70	5	65	-	5	0.00	0	-0.43	(665)	(665)	(5)	(417)	-	-	-0.086	(133)	(133)	-0.069	-6
Condensing Htg Sys Repl	254	0	254	-	0	0.00	0	0.00	0	0	347	31,792	-	-	-	-	-	1.367	125
Non-Cond Htg Sys Repl	26	0	26	-	0	0.00	0	0.00	0	0	23	2,073	-	-	-	-	-	0.867	80
Electric Htg Sys Repl	11	11	0	-	11	0.00	0	0.63	945	945	0	0	-	-	0.057	86	86	-	-
Heat Pump Repl	1	1	0	-	1	0.00	0	0.04	66	66	0	0	-	-	0.043	66	66	-	-
Other Htg Sys Repl	0	0	0	-	0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-

				Number of Measures by Fuel Type														
	Total	Electric	Gas	Total	Electric	Gas	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms
Water Heating	514	202	312	617	173	444	0.0	0.3	19,547	51.8	9,438	0.000	0.001	97	0.166	30
Temp. Reduct.	73	29	44				0.00	0.01	2,579	1.0	354	0.000	0.000	89	0.023	8
WH Wrap	0	0	0				0.00	0.00	0	0.0	0	-	-	-	-	-
Pipe Insul.	377	160	217				0.00	0.01	5,336	2.1	739	0.000	0.000	33	0.010	3
LF Showerhead	104	33	71	104	33	71	0.00	0.10	4,506	1.9	593	0.000	0.003	137	0.027	8
Faucet Aerator	166	55	111	268	91	177	0.00	0.05	2,360	0.9	276	0.000	0.001	43	0.008	2
Std-Eff Wtr Htr Repl.	23	3	20	23	3	20	0.00	0.00	68	3.1	513	0.000	0.001	23	0.157	26
Hi-Eff Wtr Htr Repl.	222	46	176	222	46	176	0.00	0.12	4,698	42.7	6,961	0.000	0.003	102	0.242	40
Lighting	602	602		5,747	5,747		13.4	24.8	127,948	-	-	0.022	0.041	213	-	-
CFL (5W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (7W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (9W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (11W)	38	38		327	327		0.43	0.80	4,115	-	-	0.011	0.021	108	-	-
CFL (13W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (14W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (15W)	451	451		3,916	3,916		8.07	14.91	76,866	-	-	0.018	0.033	170	-	-
CFL (18W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (20W)	59	59		299	299		0.75	1.39	7,146	-	-	0.013	0.023	121	-	-
CFL (23W)	155	155		602	602		2.12	3.92	20,208	-	-	0.014	0.025	130	-	-
CFL (25W)	45	45		570	570		1.97	3.64	18,771	-	-	0.044	0.081	417	-	-
CFL (30W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL, unknown	18	18		25	25		0.09	0.16	842	-	-	0.005	0.009	47	-	-
Refrigerator/Freezer	169	169		182	182		8.87	8.30	72,148	-	-	0.053	0.049	427		
Refrigerator Removal	1	1		1	1		0.05	0.05	391	-	-	0.048	0.045	391	-	-
Refrigerator Exchange	150	150		154	154		7.43	6.95	60,445	-	-	0.050	0.046	403	-	-
Freezer Removal	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
Freezer Exchange	27	27		27	27		1.39	1.30	11,312	-	-	0.052	0.048	419	-	-

Black Hills Energy
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts Total	Electric	Gas	Count of Households with Electricity Impacts by Season Cooling	Heating	Estimated First-Year Savings: Spending on Materials & Labor ($)	Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk Day therms	Annual therms
OVERALL (Energy Mea)	**166**	**0**	**166**	**0**	**0**	**438,380**	**0.0**		**0.0**		**0**	**270**	**26,198**	**2640.84**						**1.624**	**158**
Shell & Htg. Sys.	158	0	158	0	0	385,760	0.0	0	0.0	0	0	256	23,573	2441.52	-	-	-	-	-	1.618	149
Wall Insul.	68	0	68	0	0	78,680	0.00	0	0.00	0	0	57	5,268	1157.06	-	-	-	-	-	0.837	77
Open Blown Ceiing Insul.	117	0	117	0	0	59,786	0.00	0	0.00	0	0	44	4,083	510.99	-	-	-	-	-	0.377	35
Cavity Fill Insul.	36	0	36	0	0	23,392	0.00	0	0.00	0	0	22	2,053	649.77	-	-	-	-	-	0.615	57
Sloped Attic Insul.	37	0	37	0	0	11,881	0.00	0	0.00	0	0	14	1,279	321.10	-	-	-	-	-	0.376	35
Kneewall Insul.	24	0	24	0	0	6,431	0.00	0	0.00	0	0	4	381	267.97	-	-	-	-	-	0.172	16
Infl. Reduction	62	0	62	0	0	13,281	0.00	0	0.00	0	0	7	621	214.20	-	-	-	-	-	0.111	10
Found./Crawl. Insul.	49	0	49	0	0	25,290	0.00	0	0.00	0	0	12	1,143	516.12	-	-	-	-	-	0.253	23
Bandjoist Insul.	58	0	58	-	0	6,457	0.00	0	0.00	0	0	3	267	111.33	-	-	-	-	-	0.049	5
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	79	0	79	-	-	160,563	0.00	0	0.00	0	0	92	8,478	2032.45	-	-	-	-	-	1.170	107
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

	Number of Measures by Fuel Type Total	Electric	Gas	Total	Electric	Gas		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms
Water Heating	117	0	117	234	0	234	52,620	0.0	0.0	0	13.8	2,625	449.74	-	-	-	0.118	22
Temp. Reduct.	16	0	16	16	0	16	0	0.00	0.00	0	0.4	138	0.00	-	-	-	0.025	9
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	100	0	100	100	0	100	528	0.00	0.00	0	1.0	347	5.28	-	-	-	0.010	3
LF Showerhead	17	0	17	18	0	18	174	0.00	0.00	0	0.5	157	10.22	-	-	-	0.030	9
Faucet Aerator	34	0	34	51	0	51	141	0.00	0.00	0	0.3	92	4.14	-	-	-	0.009	3
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	50	0	50	49	0	49	51 778	0.00	0.00	0	11.6	1 891	1035.56	-	-	-	0.232	38
Lighting	0	0		0	0		0	0.0	0.0	0	-	-	0.00	-	-	-	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (13W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (23W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (25W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator/Freezer	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 166 Total Households with Spending and/or Energy Impacts:

Total		**73,366**	**441.96**
Unspecified Insul.	34	5,600	164.71
Duct Sealing	0	0	0.00
Duct Insulation	2	34	16.95
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	42	4,586	109.18
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	29	4,003	138.03
Water Heater Ventilation	34	3,672	108.00
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Vent lation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	17	583	34.31
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	48	8 040	167.49
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action)	0	0	0.00
Support	158	46,848	296.51
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**511,746**	**3,082.81**
Utility Expenditures for Administration:		**27,737**	
Grand Total of Expenditures:		**539,483**	

Black Hills Energy
Calendar Year 2013
Fuel and Demand Impacts For All Customer Households from All Measures (All Federal, State, and Utility Funding Sources)

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use		Estimated First-Year Savings							Average per Treated Household						
						Electricity					Gas		Electricity					Gas	
	Total	Electric	Gas	Cooling	Heating	Summer kW	kWh	Winter kW	kWh	Annual kWh	Pk-Day therms	Annual therms	Summer kW	kWh	Winter kW	kWh	Annual kWh	Pk-Day therms	Annual therms
OVERALL	**196**	**0**	**196**	**0**	**0**	**0.0**		**0.0**		**0**	**406**	**39,688**	**-**		**-**		**-**	**2.073**	**202**
Shell & Htg. Sys.	195	0	195	0	0	0.0	0	0.0	0	0	384	35,480	-	-	-	-	-	1.969	182
Wall Insul.	94	0	94	0	0	0.00	0	0.00	0	0	81	7,514	-	-	-	-	-	0.860	80
Open Blown Ceiling Insul.	153	0	153	0	0	0.00	0	0.00	0	0	63	5,890	-	-	-	-	-	0.415	38
Cavity Fill Insul.	45	0	45	0	0	0.00	0	0.00	0	0	28	2,636	-	-	-	-	-	0.629	59
Sloped Attic Insul.	50	0	50	0	0	0.00	0	0.00	0	0	18	1,685	-	-	-	-	-	0.364	34
Kneewall Insul.	39	0	39	0	0	0.00	0	0.00	0	0	8	772	-	-	-	-	-	0.213	20
Infil. Reduction	187	0	187	0	0	0.00	0	0.00	0	0	31	2,892	-	-	-	-	-	0.168	15
Found./Crawl. Insul.	76	0	76	0	0	0.00	0	0.00	0	0	18	1,629	-	-	-	-	-	0.232	21
Bandjoist Insul.	80	0	80	-	0	0.00	0	0.00	0	0	4	350	-	-	-	-	-	0.047	4
Exhaust Ventilation	37	0	37	-	0	0.00	0	0.00	0	0	(3)	(233)	-	-	-	-	-	-0.070	-6
Condensing Htg Sys Repl	93	0	93	-	0	0.00	0	0.00	0	0	118	10,863	-	-	-	-	-	1.273	117
Non-Cond Htg Sys Repl	13	0	13	-	0	0.00	0	0.00	0	0	16	1,483	-	-	-	-	-	1.234	114
Electric Htg Sys Repl	0	0	0	-	0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-

				Number of Measures by Fuel Type														
	Total	Electric	Gas	Total	Electric	Gas	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms
Water Heating	151	0	151	189	0	189	0.0	0.0	0	22.5	4,208	-	-	-	0.149	28
Temp. Reduct.	25	0	25				0.00	0.00	0	0.6	225	-	-	-	0.026	9
WH Wrap	0	0	0				0.00	0.00	0	0.0	0	-	-	-	-	-
Pipe Insul.	134	0	134				0.00	0.00	0	1.3	466	-	-	-	0.010	3
LF Showerhead	26	0	26	28	0	28	0.00	0.00	0	0.8	232	-	-	-	0.029	9
Faucet Aerator	48	0	48	78	0	78	0.00	0.00	0	0.4	138	-	-	-	0.009	3
Std-Eff Wtr Htr Repl.	9	0	9	9	0	9	0.00	0.00	0	1.4	230	-	-	-	0.156	26
Hi-Eff Wtr Htr Repl.	74	0	74	74	0	74	0.00	0.00	0	17.9	2,917	-	-	-	0.242	39
Lighting	0	0		0	0		0.0	0.0	0	-	-	-	-	-	-	-
CFL (5W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (7W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (9W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (11W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (13W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (14W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (15W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (18W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (20W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (23W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (25W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (30W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL, unknown	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
Refrigerator/Freezer	0	0		0	0		0.00	0.00	0	-	-	-	-	-		
Refrigerator Removal	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
Refrigerator Exchange	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
Freezer Removal	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
Freezer Exchange	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-

MidAmerican Energy
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by Season		Estimated First-Year Savings								Average Estimated First Year Measure Cost and Savings Average per Treated Household						
							Electricity					Gas			Electricity				Gas	
	Total	Electric	Gas	Cooling	Heating	Spending on Materials & Labor ($)	Summer kW	kWh	Winter kW	kWh	Annual kWh	Pk Day therms	Annual therms	Spending on Materials & Labor ($)	Summer kW	kWh	Winter kW	kWh	Annual kWh	Pk Day therms	Annual therms
OVERALL (Energy Mea)	**597**	**477**	**494**	**477**	**448**	**2,031,910**	**87.5**		**48.8**		**281,125**	**1,037**	**100,330**	**3403.53**	**0.183**		**0.109**		**589**	**2.100**	**203**
Shell & Htg. Sys.	577	418	484	416	18	1,652,009	70.6	85,135	22.6	34,926	120,061	977	89,369	2863.10	0.170	205	1.258	1,940	287	2.019	185
Wall Insul.	349	269	303	268	7	439,453	28.39	34,234	4.14	6,226	40,459	262	24,009	1259.18	0.106	128	0.591	889	150	0.865	79
Open Blown Ceiing Insul.	453	359	370	358	17	287,070	28.68	34,593	8.50	13,262	47,854	220	20,149	633.71	0.080	97	0.500	780	133	0.595	54
Cavity Fill Insul.	113	78	89	78	8	78,664	3.61	4,359	5.04	7,826	12,185	57	5,241	696.15	0.046	56	0.630	978	156	0.638	59
Sloped Attic Insul.	136	101	112	101	6	49,006	4.41	5,319	1.35	2,040	7,358	51	4,675	360.34	0.044	53	0.225	340	73	0.459	42
Kneewall Insul.	107	86	88	86	5	33,077	1.66	2,000	0.47	697	2,697	20	1,810	309.13	0.019	23	0.094	139	31	0.223	21
Infl. Reduction	245	202	215	202	8	67,682	1.76	2,124	0.48	712	2,836	25	2,262	276.25	0.009	11	0.060	89	14	0.115	11
Found./Crawl. Insul.	197	50	179	47	7	142,497	2.08	2,507	2.54	3,977	6,484	49	4,443	723.34	0.044	53	0.363	568	130	0.272	25
Bandjoist Insul.	144	3	141	-	3	15,337	0.00	0	0.05	78	78	7	610	106.51	-	-	0.017	26	26	0.047	4
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	246	0	246	-	-	536,825	0.00	0	0.00	0	0	287	26,169	2182.21	-	-	-	-	-	1.168	106
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	1	1	0	-	1	2,398	0.00	0	0.08	109	109	0	0	2398.19	-	-	0.075	109	109	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

	Number of Measures by Fuel Type																		
	Total	Electric	Gas	Total	Electric	Gas	Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms
Water Heating	477	81	396	1,019	154	865	278,601	0.0	0.1	8,069	59.9	10,962	584.07	0.000	0.002	100	0.151	28
Temp. Reduct.	21	5	16	21	5	16	0	0.00	0.00	441	0.4	145	0.00	0.000	0.000	88	0.026	9
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	374	73	301	374	73	301	2,024	0.00	0.00	2,476	2.9	1,008	5.41	0.000	0.000	34	0.010	3
LF Showerhead	113	16	97	115	17	98	1,123	0.00	0.05	2,329	2.8	859	9.93	0.000	0.003	146	0.029	9
Faucet Aerator	161	26	135	272	42	230	773	0.00	0.03	1,129	1.3	387	4.80	0.000	0.001	43	0.009	3
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	248	17	231	237	17	220	274 682	0.00	0.04	1 693	52.5	8 563	1107.59	0.000	0.002	100	0.227	37
Lighting	434	434		4,544	4,544		30,405	11.3	20.8	107,203	-	-	70.06	0.026	0.048	247	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	1	1		4	4		28	0.01	0.01	54	-	-	28.00	0.006	0.010	54	-	-
CFL (11W)	79	79		608	608		4,231	0.81	1.49	7,690	-	-	53.55	0.010	0.019	97	-	-
CFL (13W)	39	39		255	255		1,767	0.32	0.59	3,027	-	-	45.32	0.008	0.015	78	-	-
CFL (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	132	132		877	877		5,401	1.80	3.33	17,143	-	-	40.92	0.014	0.025	130	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	170	170		1,471	1,471		10,273	3.68	6.80	35,074	-	-	60.43	0.022	0.040	206	-	-
CFL (23W)	141	141		846	846		4,911	2.99	5.52	28,458	-	-	34.83	0.021	0.039	202	-	-
CFL (25W)	38	38		426	426		2,998	1.45	2.68	13,835	-	-	78.89	0.038	0.071	364	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL unknown	38	38		57	57		796	0.20	0.37	1 922	-	-	20.94	0.005	0.010	51	-	-
Refrigerator/Freezer	116	116		116	116		70 895	5.63	5.27	45 792	-	-	611.16	0.049	0.045	395		
Refrigerator Removal	1	1		1	1		9	0.05	0.05	391	-	-	9.00	0.048	0.045	391	-	-
Refrigerator Exchange	102	102		100	100		64,325	4.85	4.53	39,429	-	-	630.63	0.048	0.044	387	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	15	15		14	14		6,561	0.73	0.69	5,971	-	-	437.42	0.049	0.046	398	-	-

Costs for Measures Without Energy Impacts Installed in 633 Total Households with Spending and/or Energy Impacts:

Total		**322,754**	**509.88**
Unspecified Insul.	88	10,103	114.81
Duct Sealing	0	0	0.00
Duct Insulation	2	205	102.50
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	162	17,466	107.81
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	13	1,249	96.07
Unspecified Utility Meas.	0	0	0.00
CO Detector	3	120	40.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	136	18,346	134.90
Water Heater Ventilation	109	12,809	117.51
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Ventilation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	54	2,580	47.79
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	234	43 810	187.22
Meter Refrig (no action)	199	0	0.00
Meter Freezer (no action)	92	0	0.00
Support	528	216,051	409.19
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	1	15	15.00

Total Reported Materials, Labor, and Support Costs:	**2,354,664**
Utility Expenditures for Administration:	**90,883**
Grand Total of Expenditures:	**2,445,547**

MidAmerican Energy
Calendar Year 2013
Fuel and Demand Impacts For All Customer Households from All Measures (All Federal, State, and Utility Funding Sources)

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use		Estimated First-Year Savings							Average per Treated Household						
						Electricity					Gas		Electricity					Gas	
						Summer		Winter		Annual	Pk-Day	Annual	Summer		Winter		Annual	Pk-Day	Annual
	Total	Electric	Gas	Cooling	Heating	kW	kWh	kW	kWh	kWh	therms	therms	kW	kWh	kW	kWh	kWh	therms	therms
OVERALL	**922**	**750**	**768**	**750**	**717**	**148.4**		**86.2**		**481,477**	**1,876**	**180,430**	**0.198**		**0.120**		**642**	**2.443**	**235**
Shell & Htg. Sys.	914	694	767	691	36	120.3	145,096	43.6	66,630	211,726	1,781	162,608	0.174	210	1.210	1,851	305	2.322	212
Wall Insul.	543	418	466	416	16	45.58	54,966	7.70	11,534	66,499	406	37,148	0.110	132	0.481	721	159	0.871	80
Open Blown Ceiling Insul.	717	567	589	565	31	46.70	56,321	15.96	24,623	80,944	375	34,190	0.083	100	0.515	794	143	0.636	58
Cavity Fill Insul.	186	129	150	127	13	5.75	6,937	7.47	11,535	18,472	100	9,212	0.045	55	0.575	887	143	0.665	61
Sloped Attic Insul.	218	156	179	155	10	6.64	8,008	3.12	4,663	12,671	84	7,636	0.043	52	0.312	466	81	0.468	43
Kneewall Insul.	177	136	149	135	8	2.68	3,227	1.27	1,910	5,137	35	3,189	0.020	24	0.158	239	38	0.233	21
Infil. Reduction	900	682	756	679	34	8.61	10,380	3.35	5,067	15,447	141	12,811	0.013	15	0.098	149	23	0.186	17
Found./Crawl. Insul.	334	99	301	94	17	4.36	5,257	4.23	6,593	11,850	84	7,694	0.046	56	0.249	388	120	0.280	26
Bandjoist Insul.	231	9	222	-	9	0.00	0	0.35	541	541	14	1,327	-	-	0.039	60	60	0.065	6
Exhaust Ventilation	193	6	187	-	6	0.00	0	-0.53	(798)	(798)	(12)	(1,109)	-	-	-0.088	(133)	(133)	-0.065	-6
Condensing Htg Sys Repl	402	0	402	-	0	0.00	0	0.00	0	0	488	44,455	-	-	-	-	-	1.215	111
Non-Cond Htg Sys Repl	77	0	77	-	0	0.00	0	0.00	0	0	66	6,056	-	-	-	-	-	0.862	79
Electric Htg Sys Repl	10	10	0	-	10	0.00	0	0.60	906	906	0	0	-	-	0.060	91	91	-	-
Heat Pump Repl	1	1	0	-	1	0.00	0	0.04	56	56	0	0	-	-	0.037	56	56	-	-
Other Htg Sys Repl	0	0	0	-	0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-

				Number of Measures by Fuel Type														
	Total	Electric	Gas	Total	Electric	Gas	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms
Water Heating	777	134	643	1,154	156	998	0.0	0.3	16,478	95.6	17,822	0.000	0.002	123	0.149	28
Temp. Reduct.	87	20	67				0.00	0.00	1,809	1.7	574	0.000	0.000	90	0.025	9
WH Wrap	0	0	0				0.00	0.00	0	0.0	0	-	-	-	-	-
Pipe Insul.	641	118	523				0.00	0.01	4,024	4.9	1,716	0.000	0.000	34	0.009	3
LF Showerhead	206	32	174	209	33	176	0.00	0.10	4,559	4.7	1,450	0.000	0.003	142	0.027	8
Faucet Aerator	299	50	249	521	84	437	0.00	0.05	2,225	2.2	688	0.000	0.001	44	0.009	3
Std-Eff Wtr Htr Repl.	97	1	96	97	1	96	0.00	0.00	23	13.1	2,137	0.000	0.001	23	0.136	22
Hi-Eff Wtr Htr Repl.	327	38	289	327	38	289	0.00	0.09	3,839	69.0	11,256	0.000	0.002	101	0.239	39
Lighting	695	695		7,309	7,309		17.6	32.6	167,956	-	-	0.025	0.047	242	-	-
CFL (5W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (7W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (9W)	1	1		4	4		0.01	0.01	54	-	-	0.006	0.010	54	-	-
CFL (11W)	126	126		1,003	1,003		1.33	2.46	12,691	-	-	0.011	0.020	101	-	-
CFL (13W)	59	59		428	428		0.53	0.99	5,084	-	-	0.009	0.017	86	-	-
CFL (14W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (15W)	213	213		1,372	1,372		2.82	5.22	26,896	-	-	0.013	0.024	126	-	-
CFL (18W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL (20W)	302	302		2,849	2,849		7.14	13.19	68,009	-	-	0.024	0.044	225	-	-
CFL (23W)	193	193		1,124	1,124		3.98	7.36	37,946	-	-	0.021	0.038	197	-	-
CFL (25W)	41	41		45	45		1.55	2.86	14,744	-	-	0.038	0.070	360	-	-
CFL (30W)	0	0		0	0		0.00	0.00	0	-	-	-	-	-	-	-
CFL, unknown	51	51		75	75		0.27	0.49	2,531	-	-	0.005	0.010	50	-	-
Refrigerator/Freezer	198	198		214	214		10.49	9.81	85,316	-	-	0.053	0.050	431		
Refrigerator Removal	1	1		1	1		0.05	0.05	391	-	-	0.048	0.045	391	-	-
Refrigerator Exchange	172	172		175	175		8.49	7.94	69,027	-	-	0.049	0.046	401	-	-
Freezer Removal	1	1		1	1		0.05	0.05	417	-	-	0.051	0.048	417	-	-
Freezer Exchange	36	36		37	37		1.90	1.78	15,481	-	-	0.053	0.049	430	-	-

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4. DETAILED SPENDING AND IMPACT PROFILES BY AGENCY

This section provides tables of spending and impacts by agency for state and utility expenditures. Energy impacts were estimated according to the statewide algorithms, which include agency-specific adjustments.

New Opportunities
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**71**	**71**	**49**	**8**	**3**	**1**	**71**	**71**	**417,717**	**16.4**		**16.8**		**58,314**	**157**	**14,834**	**2,921**	**667**	**41**	**5883.33**	**0.231**		**0.237**		**821**	**3.213**	**303**	**365**	**222**	**41**
Shell & Htg. Sys.	71	68	49	7	3	1	66	11	380,131	14.3	17,259	13.2	20,221	37,481	151	13,818	2,866	667	41	5353.96	0.217	262	1.202	1,838	551	3.091	282	409	222	41
Wall Insul.	54	51	35	7	3	1	50	8	73,261	5.60	6,756	4.29	6,558	13,314	38	3,455	785	160	14	1356.69	0.112	135	0.536	820	261	1.082	99	112	53	14
Open Blown Ceiling Insul.	68	65	46	7	3	1	63	11	43,828	4.18	5,043	2.53	3,860	8,903	20	1,826	569	219	6	644.53	0.066	80	0.230	351	137	0.435	40	81	73	6
Cavity Fil Insul.	25	23	15	3	1	1	23	5	13,814	1.17	1,416	2.15	3,288	4,705	9	856	184	17	2	552.57	0.051	62	0.430	658	205	0.626	57	61	17	2
Sloped Attic Insul.	32	30	20	5	0	1	29	6	11,444	1.47	1,775	2.13	3,258	5,033	9	783	270	0	4	357.63	0.051	61	0.355	543	168	0.429	39	54	-	4
Kneewall Insul.	22	22	12	4	0	1	21	5	4,581	0.20	242	0.27	418	660	1	105	34	0	0	208.23	0.010	12	0.055	84	30	0.096	9	8	-	0
Infil. Reduction	70	67	49	7	3	1	65	10	40,678	0.79	949	1.04	1,585	2,534	10	918	95	15	1	581.11	0.012	15	0.104	158	38	0.205	19	14	5	1
Found./Crawl. Insul.	39	20	25	6	1	1	18	6	14,950	0.89	1,078	1.18	1,802	2,880	5	491	102	4	1	383.33	0.050	60	0.196	300	144	0.215	20	17	4	1
Bandjoist Insul.	29	3	21	3	2	0	-	3	2,198	0.00	0	0.04	68	68	1	70	12	11	0	75.79	-	-	0.015	23	23	0.037	3	4	6	-
Exhaust Ventilation	33	6	25	1	1	0	-	6	46,756	0.00	0	-0.52	(798)	(798)	(2)	(178)	(8)	(5)	0	1416.85	-	-	-0.087	(133)	(133)	-0.078	-7	-8	-5	-
Condensing Htg Sys Repl	36	0	29	4	2	1	-	-	93,796	0.00	0	0.00	0	0	53	4,854	823	247	12	2605.45	-	-	-	-	-	1.835	167	206	123	12
Non-Cond Htg Sys Repl	5	0	5	0	0	0	-	-	22,950	0.00	0	0.00	0	0	7	638	0	0	0	4590.00	-	-	-	-	-	1.399	128	-	-	-
Electric Htg Sys Repl	2	2	0	0	0	0	-	2	11,875	0.00	0	0.12	182	182	0	0	0	0	0	5937.50	-	-	0.059	91	91	-	-	-	-	-
Heat Pump Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	66	27	36	3	0	0	71	27	41	3	0	0	31,759	0.0	0.0	1,281	6.0	1,016	55	0	0	481.20	0.000	0.001	47	0.166	28	18	-	-
Temp. Reduct.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	44	22	20	2	0	0	44	22	20	2	0	0	270	0.00	0.00	751	0.2	80	9	0	0	6.14	0.000	0.000	34	0.012	4	4	-	-
LF Showerhead	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Faucet Aerator	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Std-Eff Wtr Htr Repl.	4	0	4	0	0	0	4	0	4	0	0	0	5,050	0.00	0.00	0	0.8	129	0	0	0	1262.50	-	-	-	0.197	32	-	-	-
Hi-Eff Wtr Htr Repl.	23	5	17	1	0	0	23	5	17	1	0	0	26 439	0.00	0.01	530	4.9	807	46	0	0	1149.52	0.000	0.003	106	0.291	47	46	-	-
Lighting	70	70					503	503					1,123	1.8	3.3	17,100	-	-	-	-	-	16.05	0.026	0.047	244	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (13W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (14W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (15W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (23W)	69	69					478	478					961	1.71	3.15	16,249	-	-	-	-	-	13.92	0.025	0.046	235	-	-	-	-	-
CFL (25W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	19	19					25	25					163	0.09	0.17	851	-	-	-	-	-	8.55	0.005	0.009	45	-	-	-	-	-
Refrigerator/Freezer	6	6					6	6					4 703	0.30	0.28	2 452	-	-	-	-	-	783.83	0.050	0.047	409					
Refrigerator Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator Exchange	6	6					6	6					4,703	0.30	0.28	2,452	-	-	-	-	-	783.83	0.050	0.047	409	-	-	-	-	-
Freezer Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 71 Total Households with Spending and/or Energy Impacts:

Total		**250,211**	**3524.11**
Unspecified Insul.	67	6,927	103.39
Duct Sealing	1	16	16.20
Duct Insulation	23	1,346	58.52
Damming Material	45	1,055	23.44
Htg. Sys. Tune & Clean	17	2,806	165.03
Htg. Sys./WH Other	26	12,702	488.54
Air Conditioning Work	0	0	0.00
Water Heater Repair	5	1,764	352.87
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	67	2,443	36.46
Smoke Detector	68	1,357	19.96
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	38	14,751	388.17
Water Heater Ventilation	22	4,564	207.45
Bathroom Ventilation	15	2,364	157.63
Dryer Exhaust Ventilation	39	4,279	109.73
Other Exhaust Ventilation	38	3,997	105.19
Health/Safety Repairs	54	6,148	113.84
Health/Safety Other	15	430	28.64
Consumables	0	0	0.00
General Repairs	67	39 813	594.22
Meter Refrig (no action)	65	0	0.00
Meter Freezer (no action)	43	0	0.00
Support	67	139,369	2080.14
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	45	4,041	89.80
Unspecifed	2	40	20.00
Total Reported Materials, Labor, and Support Costs:		**667,928**	**9,407.44**
Grand Total of Expenditures:		**667,928**	

Hawkeye Area Community Action Program
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**198**	**194**	**177**	**16**	**2**	**0**	**194**	**182**	**959,630**	**22.1**		**9.8**		**74,805**	**349**	**33,606**	**3,631**	**292**	**0**	**4846.61**	**0.114**		**0.054**		**386**	**1.972**	**190**	**227**	**146**	
Shell & Htg. Sys.	198	162	177	16	2	0	161	3	808,689	16.6	20,016	1.6	2,480	22,496	331	30,468	3,481	292	0	4084.29	0.103	124	0.537	827	139	1.873	172	218	146	-
Wall Insul.	96	70	85	8	2	0	69	1	174,793	6.29	7,584	0.49	754	8,338	63	5,823	597	91	0	1820.76	0.091	110	0.489	754	119	0.745	69	75	45	-
Open Blown Ceiling Insul.	113	87	98	12	2	0	86	1	83,003	6.40	7,716	0.93	1,431	9,147	77	7,082	1,006	155	0	734.54	0.074	90	0.929	1,431	105	0.786	72	84	77	-
Cavity Fil Insul.	25	13	23	2	0	0	13	0	25,083	0.41	500	0.00	0	500	14	1,325	15	0	0	1003.33	0.032	38	-	-	38	0.627	58	7	-	-
Sloped Attic Insul.	34	23	29	4	1	0	23	0	12,134	0.72	872	0.00	0	872	11	991	149	11	0	356.87	0.031	38	-	-	38	0.372	34	37	11	-
Kneewall Insul.	27	16	24	2	1	0	16	0	8,256	0.20	241	0.00	0	241	4	363	12	20	0	305.76	0.012	15	-	-	15	0.165	15	6	20	-
Infil. Reduction	197	162	176	16	2	0	161	3	121,664	1.76	2,118	0.18	271	2,389	31	2,831	333	18	0	617.58	0.011	13	0.059	90	15	0.175	16	21	9	-
Found./Crawl. Insul.	93	21	83	9	1	0	21	0	109,619	0.82	985	0.00	0	985	32	2,965	327	7	0	1178.70	0.039	47	-	-	47	0.389	36	36	7	-
Bandjoist Insul.	71	2	61	7	1	0	-	2	11,834	0.00	0	0.02	24	24	3	250	39	4	0	166.68	-	-	0.008	12	12	0.045	4	6	4	-
Exhaust Ventilation	56	0	50	5	1	0	-	0	49,633	0.00	0	0.00	0	0	(3)	(266)	(28)	(4)	0	886.30	-	-	-	-	-	-0.058	-5	-6	-4	-
Condensing Htg Sys Repl	78	0	71	6	1	0	-	-	154,557	0.00	0	0.00	0	0	81	7,479	709	(11)	0	1981.49	-	-	-	-	-	1.146	105	118	-11	-
Non-Cond Htg Sys Repl	28	0	24	4	0	0	-	-	58,114	0.00	0	0.00	0	0	18	1,624	323	0	0	2075.51	-	-	-	-	-	0.736	68	81	-	-
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	172	35	130	7	0	0	237	44	181	12	0	0	117,191	0.0	0.0	2,652	17.7	3,138	149	0	0	681.34	0.000	0.001	76	0.136	24	21	-	-
Temp. Reduct.	53	11	39	3	0	0	53	11	39	3	0	0	0	0.00	0.00	969	0.9	302	24	0	0	0.00	0.000	0.000	88	0.022	8	8	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	86	23	59	4	0	0	86	23	59	4	0	0	447	0.00	0.00	762	0.5	180	14	0	0	5.20	0.000	0.000	33	0.009	3	3	-	-
LF Showerhead	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Faucet Aerator	1	0	1	0	0	0	1	0	1	0	0	0	3	0.00	0.00	0	0.0	2	0	0	0	3.00	-	-	-	0.005	2	-	-	-
Std-Eff Wtr Htr Repl.	26	1	21	4	0	0	26	1	21	4	0	0	34,567	0.00	0.00	23	2.9	479	84	0	0	1329.52	0.000	0.001	23	0.140	23	21	-	-
Hi-Eff Wtr Htr Repl.	71	9	61	1	0	0	71	9	61	1	0	0	82 174	0.00	0.02	898	13.3	2 175	28	0	0	1157.38	0.000	0.002	100	0.219	36	28	-	-
Lighting	167	167					1,553	1,553					10,892	3.3	6.0	31,027	-	-	-	-	-	65.22	0.020	0.036	186	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (13W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (14W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (15W)	166	166					1,500	1,500					10,521	3.07	5.68	29,260	-	-	-	-	-	63.38	0.019	0.034	176	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (23W)	14	14					53	53					371	0.19	0.34	1,767	-	-	-	-	-	26.50	0.013	0.024	126	-	-	-	-	-
CFL (25W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator/Freezer	47	47					47	47					22 857	2.29	2.14	18 630	-	-	-	-	-	486.32	0.049	0.046	396					
Refrigerator Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator Exchange	40	40					40	40					20,660	1.93	1.81	15,711	-	-	-	-	-	516.50	0.048	0.045	393	-	-	-	-	-
Freezer Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	7	7					7	7					2,197	0.36	0.34	2,918	-	-	-	-	-	313.86	0.051	0.048	417	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 198 Total Households with Spending and/or Energy Impacts:

Total		**963,058**	**4863.93**
Unspecified Insul.	131	48,263	368.42
Duct Sealing	118	32,935	279.11
Duct Insulation	113	13,609	120.43
Damming Material	78	4,352	55.79
Htg. Sys. Tune & Clean	81	6,820	84.20
Htg. Sys./WH Other	48	12,381	257.93
Air Conditioning Work	0	0	0.00
Water Heater Repair	12	1,603	133.54
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	167	10,750	64.37
Smoke Detector	115	8,656	75.27
Fuses	0	0	0.00
Htg Sys Safety Check	1	85	85.00
Htg Sys Ventilation	1	270	270.14
Water Heater Ventilation	5	1,879	375.70
Bathroom Ventilation	31	5,035	162.42
Dryer Exhaust Ventilation	90	7,207	80.08
Other Exhaust Ventilation	147	81,520	554.56
Health/Safety Repairs	66	27,237	412.68
Health/Safety Other	32	4 205	131.39
Consumables	0	0	0.00
General Repairs	158	106 441	673.68
Meter Refrig (no action)	119	0	0.00
Meter Freezer (no action)	38	0	0.00
Support	198	531,884	2686.28
Transportation Allowance	132	25,369	192.19
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	123	32,558	264.70
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**1,922,687**	**9,710.54**
Grand Total of Expenditures:		**1,922,687**	

Community Action of Eastern Iowa
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**131**	**130**	**108**	**22**	**0**	**0**	**130**	**119**	**622,030**	**22.1**		**12.4**		**83,940**	**250**	**24,300**	**6,306**	**0**	**0**	**4748.32**	**0.170**		**0.104**		**646**	**2.315**	**225**	**287**		
Shell & Htg. Sys.	131	120	108	22	0	0	120	1	509,143	15.7	18,893	2.2	3,361	22,254	236	21,723	6,107	0	0	3886.59	0.131	157	2.182	3,361	185	2.188	201	278	-	-
Wall Insul.	74	68	61	12	0	0	68	1	108,155	6.05	7,292	0.44	679	7,971	62	5,677	1,134	0	0	1461.55	0.089	107	0.441	679	117	1.012	93	95	-	-
Open Blown Ceiling Insul.	92	83	72	19	0	0	83	1	54,612	5.23	6,304	1.42	2,180	8,484	39	3,565	1,324	0	0	593.60	0.063	76	1.416	2,180	102	0.539	50	70	-	-
Cavity Fil Insul.	31	28	26	5	0	0	28	0	20,919	1.31	1,583	0.00	0	1,583	16	1,459	369	0	0	674.82	0.047	57	-	-	57	0.610	56	74	-	-
Sloped Attic Insul.	24	18	22	2	0	0	18	0	10,160	0.59	707	0.00	0	707	11	975	89	0	0	423.33	0.033	39	-	-	39	0.482	44	45	-	-
Kneewall Insul.	20	18	17	3	0	0	18	0	5,736	0.17	203	0.00	0	203	3	263	13	0	0	286.78	0.009	11	-	-	11	0.168	15	4	-	-
Infil. Reduction	131	120	108	22	0	0	120	1	66,912	1.16	1,398	0.11	174	1,572	26	2,346	488	0	0	510.78	0.010	12	0.113	174	13	0.236	22	22	-	-
Found./Crawl. Insul.	70	30	56	14	0	0	30	0	55,998	1.17	1,407	0.00	0	1,407	14	1,275	241	0	0	799.97	0.039	47	-	-	47	0.248	23	17	-	-
Bandjoist Insul.	64	1	48	15	0	0	-	1	23,133	0.00	0	0.14	219	219	4	392	127	0	0	361.46	-	-	0.142	219	219	0.089	8	8	-	-
Exhaust Ventilation	2	0	2	0	0	0	-	0	1,559	0.00	0	0.00	0	0	(0)	(12)	0	0	0	779.50	-	-	-	-	-	-0.066	-6	-	-	-
Condensing Htg Sys Repl	52	0	41	11	0	0	-	-	118,177	0.00	0	0.00	0	0	51	4,647	2,214	0	0	2272.63	-	-	-	-	-	1.233	113	201	-	-
Non-Cond Htg Sys Repl	17	0	16	1	0	0	-	-	41,633	0.00	0	0.00	0	0	12	1,138	106	0	0	2449.00	-	-	-	-	-	0.774	71	106	-	-
Electric Htg Sys Repl	1	1	0	0	0	0	-	1	2,150	0.00	0	0.07	109	109	0	0	0	0	0	2150.00	-	-	0.071	109	109	-	-	-	-	-
Heat Pump Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	123	24	89	10	0	0	299	58	220	21	0	0	82,166	0.0	0.0	2,786	13.7	2,577	199	0	0	668.01	0.000	0.002	116	0.154	29	20	-	-
Temp. Reduct.	31	5	25	1	0	0	31	5	25	1	0	0	0	0.00	0.00	441	0.6	216	10	0	0	0.00	0.000	0.000	88	0.025	9	10	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	90	18	63	9	0	0	90	18	63	9	0	0	516	0.00	0.00	594	0.6	219	34	0	0	5.73	0.000	0.000	33	0.010	3	4	-	-
LF Showerhead	24	4	18	2	0	0	24	4	18	2	0	0	240	0.00	0.01	536	0.5	151	18	0	0	10.00	0.000	0.003	134	0.027	8	9	-	-
Faucet Aerator	55	15	38	2	0	0	88	24	60	4	0	0	264	0.00	0.01	603	0.3	99	7	0	0	4.80	0.000	0.001	40	0.008	3	4	-	-
Std-Eff Wtr Htr Repl.	27	1	21	5	0	0	27	1	21	5	0	0	33,000	0.00	0.00	23	3.1	513	130	0	0	1222.22	0.000	0.001	23	0.150	24	26	-	-
Hi-Eff Wtr Htr Repl.	39	6	33	0	0	0	39	6	33	0	0	0	48 146	0.00	0.01	590	8.5	1 379	0	0	0	1234.50	0.000	0.002	98	0.256	42	-	-	-
Lighting	116	116					1,386	1,386					9,734	4.5	8.3	42,981	-	-	-	-	-	83.91	0.039	0.072	371	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (13W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (14W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (15W)	1	1					5	5					35	0.01	0.02	97	-	-	-	-	-	35.00	0.010	0.019	97	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	38	38					251	251					1,757	0.63	1.16	5,994	-	-	-	-	-	46.24	0.017	0.031	158	-	-	-	-	-
CFL (23W)	35	35					192	192					1,344	0.67	1.25	6,424	-	-	-	-	-	38.40	0.019	0.036	184	-	-	-	-	-
CFL (25W)	75	75					934	934					6,538	3.18	5.88	30,333	-	-	-	-	-	87.17	0.042	0.078	404	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	3	3					4	4					60	0.01	0.03	133	-	-	-	-	-	20.00	0.005	0.009	44	-	-	-	-	-
Refrigerator/Freezer	34	34					40	40					20 987	1.96	1.83	15 919	-	-	-	-	-	617.26	0.058	0.054	468					
Refrigerator Removal	2	2					2	2					18	0.10	0.09	783	-	-	-	-	-	9.00	0.048	0.045	391	-	-	-	-	-
Refrigerator Exchange	30	30					32	32					18,638	1.55	1.45	12,579	-	-	-	-	-	621.27	0.052	0.048	419	-	-	-	-	-
Freezer Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	6	6					6	6					2,331	0.31	0.29	2,556	-	-	-	-	-	388.50	0.052	0.049	426	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 131 Total Households with Spending and/or Energy Impacts:

Total		**576,663**	**4402.01**
Unspecified Insul.	93	9,667	103.95
Duct Sealing	105	15,396	146.63
Duct Insulation	85	4,998	58.80
Damming Material	83	1,829	22.04
Htg. Sys. Tune & Clean	127	21,744	171.21
Htg. Sys./WH Other	39	18,106	464.26
Air Conditioning Work	0	0	0.00
Water Heater Repair	12	1,851	154.25
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	11	1,079	98.08
Unspecified Utility Meas.	0	0	0.00
CO Detector	116	6,581	56.73
Smoke Detector	92	4,885	53.10
Fuses	0	0	0.00
Htg Sys Safety Check	22	2,550	115.91
Htg Sys Ventilation	60	9,481	158.01
Water Heater Ventilation	40	7,538	188.46
Bathroom Ventilation	71	9,419	132.66
Dryer Exhaust Ventilation	99	8,350	84.34
Other Exhaust Ventilation	79	31,366	397.04
Health/Safety Repairs	68	12,270	180.44
Health/Safety Other	24	1 631	67.96
Consumables	47	1,506	32.04
General Repairs	129	85 166	660.20
Meter Refrig (no action)	107	0	0.00
Meter Freezer (no action)	33	0	0.00
Support	101	281,421	2786.35
Transportation Allowance	57	10,143	177.94
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	75	29,470	392.94
Unspecifed	2	217	108.30
Total Reported Materials, Labor, and Support Costs:		**1,198,693**	**9,150.33**
Grand Total of Expenditures:		**1,198,693**	

MATURA Action Corporation
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**41**	**41**	**22**	**14**	**0**	**0**	**41**	**37**	**227,174**	**12.0**		**7.6**		**33,747**	**80**	**7,166**	**6,713**	**0**	**0**	**5540.83**	**0.292**		**0.205**		**823**	**3.621**	**326**	**479**		
Shell & Htg. Sys.	41	41	22	14	0	0	41	5	194,878	10.8	12,978	5.9	8,560	21,539	77	6,621	6,311	0	0	4753.12	0.262	317	1.186	1,712	525	3.493	301	451	-	-
Wall Insul.	32	32	19	10	0	0	32	3	42,733	4.48	5,398	0.74	1,074	6,471	27	2,318	1,209	0	0	1335.42	0.140	169	0.248	358	202	1.416	122	121	-	-
Open Blown Ceiling Insul.	36	36	19	12	0	0	36	5	32,932	3.84	4,628	3.77	5,439	10,067	8	653	1,402	0	0	914.77	0.107	129	0.753	1,088	280	0.399	34	117	-	-
Cavity Fil Insul.	6	5	3	2	0	0	5	1	4,072	0.37	448	0.51	741	1,189	2	151	316	0	0	678.70	0.074	90	0.513	741	238	0.585	50	158	-	-
Sloped Attic Insul.	12	12	6	6	0	0	12	0	4,694	0.68	824	0.00	0	824	4	364	304	0	0	391.17	0.057	69	-	-	69	0.705	61	51	-	-
Kneewall Insul.	3	3	2	1	0	0	3	0	1,818	0.10	125	0.00	0	125	1	78	2	0	0	606.03	0.034	42	-	-	42	0.455	39	2	-	-
Infil. Reduction	41	41	22	14	0	0	41	5	33,984	0.61	734	0.39	559	1,293	4	377	347	0	0	828.87	0.015	18	0.077	112	32	0.199	17	25	-	-
Found./Crawl. Insul.	19	11	7	10	0	0	11	2	9,196	0.68	821	0.32	460	1,281	2	131	354	0	0	484.00	0.062	75	0.159	230	116	0.217	19	35	-	-
Bandjoist Insul.	23	4	11	8	0	0	-	4	1,678	0.00	0	0.12	178	178	0	42	24	0	0	72.96	-	-	0.031	44	44	0.045	4	3	-	-
Exhaust Ventilation	1	0	1	0	0	0	-	0	776	0.00	0	0.00	0	0	(0)	(9)	0	0	0	776.12	-	-	-	-	-	-0.107	-9	-	-	-
Condensing Htg Sys Repl	23	0	12	11	0	0	-	-	50,975	0.00	0	0.00	0	0	27	2,326	2,354	0	0	2216.30	-	-	-	-	-	2.249	194	214	-	-
Non-Cond Htg Sys Repl	1	0	1	0	0	0	-	-	8,000	0.00	0	0.00	0	0	2	190	0	0	0	8000.00	-	-	-	-	-	2.200	190	-	-	-
Electric Htg Sys Repl	1	1	0	0	0	0	-	1	4,020	0.00	0	0.08	110	110	0	0	0	0	0	4020.00	-	-	0.076	110	110	-	-	-	-	-
Heat Pump Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	40	15	17	8	0	0	72	22	30	20	0	0	18,070	0.0	0.0	1,498	2.8	545	402	0	0	451.75	0.000	0.002	100	0.167	32	50	-	-
Temp. Reduct.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	39	14	17	8	0	0	39	14	17	8	0	0	240	0.00	0.00	480	0.3	88	45	0	0	6.15	0.000	0.000	34	0.015	5	6	-	-
LF Showerhead	16	6	6	4	0	0	16	6	6	4	0	0	160	0.00	0.02	821	0.2	76	55	0	0	10.00	0.000	0.003	137	0.041	13	14	-	-
Faucet Aerator	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Std-Eff Wtr Htr Repl.	8	0	1	7	0	0	8	0	1	7	0	0	7,800	0.00	0.00	0	0.2	34	242	0	0	975.00	-	-	-	0.209	34	35	-	-
Hi-Eff Wtr Htr Repl.	9	2	6	1	0	0	9	2	6	1	0	0	9 870	0.00	0.00	197	2.1	347	60	0	0	1096.67	0.000	0.002	98	0.354	58	60	-	-
Lighting	31	31					224	224					1,568	0.5	1.0	5,126	-	-	-	-	-	50.58	0.017	0.032	165	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (13W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (14W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (15W)	23	23					125	125					875	0.26	0.48	2,492	-	-	-	-	-	38.04	0.011	0.021	108	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	17	17					73	73					511	0.18	0.34	1,754	-	-	-	-	-	30.06	0.011	0.020	103	-	-	-	-	-
CFL (23W)	14	14					26	26					182	0.09	0.17	880	-	-	-	-	-	13.00	0.007	0.012	63	-	-	-	-	-
CFL (25W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator/Freezer	14	14					14	14					12 658	0.69	0.64	5 584	-	-	-	-	-	904.14	0.049	0.046	399					
Refrigerator Removal	0	0					0	0					15	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator Exchange	14	14					14	14					12,643	0.69	0.64	5,584	-	-	-	-	-	903.07	0.049	0.046	399	-	-	-	-	-
Freezer Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 41 Total Households with Spending and/or Energy Impacts:

Total		**245,510**	**5988.06**
Unspecified Insul.	38	7,378	194.16
Duct Sealing	0	0	0.00
Duct Insulation	2	95	47.50
Damming Material	30	1,472	49.08
Htg. Sys. Tune & Clean	7	2,000	285.71
Htg. Sys./WH Other	6	3,698	616.33
Air Conditioning Work	1	150	150.00
Water Heater Repair	1	225	225.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	34	966	28.41
Smoke Detector	21	766	36.50
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	24	4,700	195.83
Water Heater Ventilation	17	1,745	102.65
Bathroom Ventilation	16	2,774	173.38
Dryer Exhaust Ventilation	15	1,215	81.00
Other Exhaust Ventilation	14	7,259	518.47
Health/Safety Repairs	22	1,860	84.53
Health/Safety Other	6	465	77.50
Consumables	1	5	4.78
General Repairs	40	65 322	1633.05
Meter Refrig (no action)	27	0	0.00
Meter Freezer (no action)	10	0	0.00
Support	41	131,105	3197.68
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	33	12,311	373.05
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**472,684**	**11,528.89**
Grand Total of Expenditures:		**472,684**	

Mid-Iowa Community Action
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**138**	**137**	**111**	**16**	**1**	**0**	**137**	**122**	**762,722**	**22.2**		**14.2**		**77,228**	**316**	**30,467**	**3,676**	**284**	**0**	**5526.97**	**0.162**		**0.116**		**564**	**2.849**	**274**	**230**	**284**	
Shell & Htg. Sys.	137	121	111	16	1	0	120	9	665,438	17.9	21,628	7.8	12,196	33,824	305	28,381	3,552	284	0	4857.21	0.149	180	0.868	1,355	280	2.744	256	222	284	-
Wall Insul.	92	83	77	9	1	0	83	5	157,655	7.68	9,260	3.34	5,218	14,478	87	8,075	891	105	0	1713.64	0.093	112	0.668	1,044	174	1.125	105	99	105	-
Open Blown Ceiling Insul.	99	89	80	12	1	0	88	6	65,535	4.06	4,894	0.66	1,032	5,926	20	1,900	335	29	0	661.97	0.046	56	0.110	172	67	0.255	24	28	29	-
Cavity Fil Insul.	35	27	31	4	0	0	27	0	29,754	1.71	2,061	0.00	0	2,061	29	2,731	298	0	0	850.11	0.063	76	-	-	76	0.945	88	74	-	-
Sloped Attic Insul.	49	41	41	6	0	0	41	2	17,713	1.96	2,364	0.83	1,298	3,662	19	1,788	226	0	0	361.48	0.048	58	0.416	649	89	0.468	44	38	-	-
Kneewall Insul.	20	16	15	4	0	0	16	1	11,848	0.33	397	0.14	215	612	3	298	36	0	0	592.41	0.021	25	0.138	215	38	0.213	20	9	-	-
Infil. Reduction	133	121	107	16	1	0	120	9	91,215	1.25	1,509	1.34	2,089	3,598	22	2,010	351	5	0	685.83	0.010	13	0.149	232	30	0.202	19	22	5	-
Found./Crawl. Insul.	59	24	44	8	0	0	23	7	43,681	0.95	1,142	1.19	1,854	2,997	8	717	144	0	0	740.36	0.041	50	0.170	265	125	0.175	16	18	-	-
Bandjoist Insul.	59	4	43	11	1	0	-	4	8,960	0.00	0	0.27	427	427	3	313	83	8	0	151.87	-	-	0.068	107	107	0.078	7	8	8	-
Exhaust Ventilation	35	2	28	4	1	0	-	2	37,473	0.00	0	-0.17	(266)	(266)	(2)	(199)	(31)	(5)	0	1070.65	-	-	-0.085	(133)	(133)	-0.076	-7	-8	-5	-
Condensing Htg Sys Repl	66	0	59	6	1	0	-	-	135,416	0.00	0	0.00	0	0	99	9,224	1,063	142	0	2051.76	-	-	-	-	-	1.678	156	177	142	-
Non-Cond Htg Sys Repl	16	0	14	2	0	0	-	-	50,986	0.00	0	0.00	0	0	16	1,525	155	0	0	3186.62	-	-	-	-	-	1.169	109	78	-	-
Electric Htg Sys Repl	3	3	0	0	0	0	-	3	9,535	0.00	0	0.17	262	262	0	0	0	0	0	3178.20	-	-	0.056	87	87	-	-	-	-	-
Heat Pump Repl	1	1	0	0	0	0	-	1	5,667	0.00	0	0.04	66	66	0	0	0	0	0	5667.00	-	-	0.043	66	66	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	121	52	65	4	0	0	217	86	124	7	0	0	74,868	0.0	0.1	4,935	11.7	2,086	123	0	0	618.74	0.000	0.002	95	0.180	32	31	-	-
Temp. Reduct.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	71	38	31	2	0	0	71	38	31	2	0	0	252	0.00	0.00	1,267	0.4	123	9	0	0	3.55	0.000	0.000	33	0.011	4	4	-	-
LF Showerhead	33	14	18	1	0	0	33	14	18	1	0	0	177	0.00	0.04	1,910	0.6	173	9	0	0	5.36	0.000	0.003	136	0.031	10	9	-	-
Faucet Aerator	47	18	28	1	0	0	59	22	35	2	0	0	141	0.00	0.01	566	0.2	65	4	0	0	3.01	0.000	0.001	31	0.008	2	4	-	-
Std-Eff Wtr Htr Repl.	7	0	7	0	0	0	7	0	7	0	0	0	7,815	0.00	0.00	0	1.2	189	0	0	0	1116.44	-	-	-	0.166	27	-	-	-
Hi-Eff Wtr Htr Repl.	47	12	33	2	0	0	47	12	33	2	0	0	66 483	0.00	0.03	1 193	9.4	1 535	102	0	0	1414.52	0.000	0.002	99	0.285	47	51	-	-
Lighting	111	111					1,043	1,043					3,075	2.5	4.5	23,413	-	-	-	-	-	27.71	0.022	0.041	211	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (13W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (14W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (15W)	110	110					829	829					2,326	1.71	3.16	16,264	-	-	-	-	-	21.15	0.016	0.029	148	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (23W)	69	69					214	214					749	0.75	1.39	7,148	-	-	-	-	-	10.85	0.011	0.020	104	-	-	-	-	-
CFL (25W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator/Freezer	36	36					38	38					19 341	1.85	1.73	15 056	-	-	-	-	-	537.26	0.051	0.048	418					
Refrigerator Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator Exchange	34	34					35	35					18,264	1.70	1.59	13,805	-	-	-	-	-	537.17	0.050	0.047	406	-	-	-	-	-
Freezer Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	3	3					3	3					1,078	0.15	0.14	1,251	-	-	-	-	-	359.19	0.051	0.048	417	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 138 Total Households with Spending and/or Energy Impacts:

Total		**700,048**	**5072.81**
Unspecified Insul.	119	44,067	370.31
Duct Sealing	49	15,751	321.45
Duct Insulation	54	6,590	122.03
Damming Material	6	519	86.50
Htg. Sys. Tune & Clean	63	7,452	118.29
Htg. Sys./WH Other	41	6,309	153.88
Air Conditioning Work	0	0	0.00
Water Heater Repair	41	1,875	45.74
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	105	3,298	31.41
Smoke Detector	50	1,296	25.92
Fuses	2	44	21.84
Htg Sys Safety Check	138	27,001	195.66
Htg Sys Ventilation	93	21,721	233.56
Water Heater Ventilation	46	8,368	181.92
Bathroom Ventilation	52	27,617	531.10
Dryer Exhaust Ventilation	44	4,754	108.05
Other Exhaust Ventilation	46	24,294	528.13
Health/Safety Repairs	68	8,842	130.03
Health/Safety Other	7	907	129.60
Consumables	0	0	0.00
General Repairs	112	63 231	564.57
Meter Refrig (no action)	82	0	0.00
Meter Freezer (no action)	41	0	0.00
Support	138	407,545	2953.23
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	107	18,566	173.51
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**1,462,771**	**10,599.79**
Grand Total of Expenditures:		**1,462,771**	

Mid-Sioux Opportunity
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings, Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**48**	**48**	**36**	**8**	**0**	**0**	**48**	**47**	**288,985**	**10.1**		**5.9**		**34,404**	**118**	**11,331**	**3,877**	**0**	**0**	**6020.51**	**0.211**		**0.125**		**717**	**3.280**	**315**	**485**		
Shell & Htg. Sys.	48	46	36	8	0	0	46	4	252,835	8.2	9,939	2.9	4,385	14,324	112	10,244	3,793	0	0	5267.39	0.179	216	0.717	1,096	311	3.119	285	474	-	-
Wall Insul.	26	25	21	5	0	0	25	0	62,098	2.91	3,514	0.00	0	3,514	29	2,684	1,071	0	0	2388.40	0.117	141	-	-	141	1.401	128	214	-	-
Open Blown Ceiling Insul.	43	41	33	6	0	0	41	4	37,323	3.04	3,667	1.48	2,267	5,934	12	1,054	407	0	0	867.98	0.074	89	0.371	567	145	0.350	32	68	-	-
Cavity Fil Insul.	18	15	13	2	0	0	15	3	17,018	0.72	874	1.13	1,729	2,602	10	916	249	0	0	945.47	0.048	58	0.377	576	173	0.773	70	124	-	-
Sloped Attic Insul.	19	18	14	4	0	0	18	1	7,738	0.88	1,066	0.05	80	1,146	9	790	190	0	0	407.27	0.049	59	0.052	80	64	0.618	56	48	-	-
Kneewall Insul.	6	4	6	0	0	0	4	0	2,538	0.08	91	0.00	0	91	1	122	0	0	0	423.06	0.019	23	-	-	23	0.222	20	-	-	-
Infil. Reduction	46	44	34	8	0	0	44	4	20,470	0.60	728	0.15	224	951	6	589	160	0	0	445.01	0.014	17	0.037	56	22	0.190	17	20	-	-
Found./Crawl. Insul.	4	0	3	1	0	0	0	0	8,126	0.00	0	0.00	0	0	1	104	72	0	0	2031.55	-	-	-	-	-	0.380	35	72	-	-
Bandjoist Insul.	4	0	4	0	0	0	-	0	4,316	0.00	0	0.00	0	0	2	182	0	0	0	1079.11	-	-	-	-	-	0.499	45	-	-	-
Exhaust Ventilation	1	0	1	0	0	0	-	0	2,100	0.00	0	0.00	0	0	(0)	(7)	0	0	0	2100.00	-	-	-	-	-	-0.079	-7	-	-	-
Condensing Htg Sys Repl	32	0	26	6	0	0	-	-	89,105	0.00	0	0.00	0	0	42	3,811	1,644	0	0	2784.53	-	-	-	-	-	1.606	147	274	-	-
Non-Cond Htg Sys Repl	0	0	0	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Electric Htg Sys Repl	1	1	0	0	0	0	-	1	2,000	0.00	0	0.06	85	85	0	0	0	0	0	2000.00	-	-	0.056	85	85	-	-	-	-	-
Heat Pump Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other								Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	47	19	27	1	0	0	127	51	74	2	0	0	24,165	0.0	0.0	2,872	5.8	1,087	84	0	0	514.15	0.000	0.002	151	0.214	40	84	-	-
Temp. Reduct.	15	7	8	0	0	0	15	7	8	0	0	0	0	0.00	0.00	717	0.2	81	0	0	0	0.00	0.000	0.000	102	0.029	10	-	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	46	19	26	1	0	0	46	19	26	1	0	0	270	0.00	0.00	673	0.3	105	4	0	0	5.87	0.000	0.000	35	0.012	4	4	-	-
LF Showerhead	10	3	7	0	0	0	10	3	7	0	0	0	100	0.00	0.01	402	0.2	67	0	0	0	10.00	0.000	0.003	134	0.031	10	-	-	-
Faucet Aerator	20	10	10	0	0	0	30	15	15	0	0	0	90	0.00	0.01	380	0.1	29	0	0	0	4.50	0.000	0.001	38	0.009	3	-	-	-
Std-Eff Wtr Htr Repl.	3	0	3	0	0	0	3	0	3	0	0	0	2,175	0.00	0.00	0	0.4	66	0	0	0	725.00	-	-	-	0.136	22	-	-	-
Hi-Eff Wtr Htr Repl.	23	7	15	1	0	0	23	7	15	1	0	0	21 530	0.00	0.02	701	4.5	738	79	0	0	936.09	0.000	0.002	100	0.302	49	79	-	-
Lighting	44	44					525	525					3,675	1.3	2.4	12,356	-	-	-	-	-	83.52	0.029	0.054	281	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (13W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (14W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (15W)	33	33					242	242					1,694	0.50	0.92	4,757	-	-	-	-	-	51.33	0.015	0.028	144	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	27	27					196	196					1,372	0.49	0.91	4,668	-	-	-	-	-	50.81	0.018	0.034	173	-	-	-	-	-
CFL (23W)	22	22					87	87					609	0.31	0.57	2,931	-	-	-	-	-	27.68	0.014	0.026	133	-	-	-	-	-
CFL (25W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator/Freezer	12	12					12	12					8 310	0.60	0.56	4 851	-	-	-	-	-	692.50	0.050	0.046	404					
Refrigerator Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator Exchange	8	8					8	8					5,514	0.39	0.37	3,183	-	-	-	-	-	689.25	0.049	0.046	398	-	-	-	-	-
Freezer Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	4	4					4	4					2,796	0.21	0.19	1,668	-	-	-	-	-	699.00	0.051	0.048	417	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 48 Total Households with Spending and/or Energy Impacts:

Total		**217,403**	**4529.22**
Unspecified Insul.	45	16,438	365.30
Duct Sealing	6	1,400	233.33
Duct Insulation	0	0	0.00
Damming Material	15	421	28.09
Htg. Sys. Tune & Clean	14	3,495	249.64
Htg. Sys./WH Other	7	2,370	338.57
Air Conditioning Work	1	1,000	1000.00
Water Heater Repair	10	490	49.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	44	2,460	55.91
Smoke Detector	44	2,343	53.26
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	25	2,980	119.20
Water Heater Ventilation	18	3,550	197.22
Bathroom Ventilation	26	5,547	213.36
Dryer Exhaust Ventilation	27	2,660	98.52
Other Exhaust Ventilation	40	13,748	343.71
Health/Safety Repairs	12	1,469	122.38
Health/Safety Other	1	20	20.00
Consumables	0	0	0.00
General Repairs	42	15 916	378.95
Meter Refrig (no action)	42	0	0.00
Meter Freezer (no action)	17	0	0.00
Support	48	139,203	2900.07
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	17	1,759	103.48
Unspecifed	2	132	66.17
Total Reported Materials, Labor, and Support Costs:		**506,387**	**10,549.74**
Grand Total of Expenditures:		**506,387**	

North Iowa Community Action Organization
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings, Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**108**	**107**	**100**	**5**	**1**	**0**	**107**	**105**	**639,461**	**17.6**		**11.3**		**63,849**	**301**	**30,798**	**2,075**	**350**	**0**	**5920.94**	**0.164**		**0.108**		**597**	**3.007**	**308**	**415**	**350**	
Shell & Htg. Sys.	108	88	100	5	1	0	88	2	538,303	13.4	16,208	5.4	8,953	25,162	288	28,411	2,031	350	0	4984.29	0.153	184	2.709	4,477	286	2.881	284	406	350	-
Wall Insul.	90	73	84	4	1	0	73	1	180,403	5.66	6,829	0.25	421	7,250	84	8,314	480	93	0	2004.48	0.078	94	0.255	421	99	1.004	99	120	93	-
Open Blown Ceiling Insul.	103	85	95	5	1	0	85	2	38,318	4.13	4,985	2.42	4,003	8,989	76	7,511	354	86	0	372.02	0.049	59	1.211	2,002	106	0.802	79	71	86	-
Cavity Fil Insul.	52	39	47	3	1	0	39	1	28,656	0.90	1,087	1.08	1,782	2,869	20	1,955	266	19	0	551.07	0.023	28	1.079	1,782	74	0.422	42	89	19	-
Sloped Attic Insul.	61	47	57	4	0	0	47	0	29,001	0.93	1,119	0.00	0	1,119	19	1,880	170	0	0	475.42	0.020	24	-	-	24	0.334	33	43	-	-
Kneewall Insul.	43	36	42	1	0	0	36	0	24,833	0.57	685	0.00	0	685	13	1,264	25	0	0	577.51	0.016	19	-	-	19	0.305	30	25	-	-
Infil. Reduction	108	88	100	5	1	0	88	2	67,267	0.77	932	0.23	375	1,306	12	1,152	77	13	0	622.84	0.009	11	0.113	187	15	0.117	12	15	13	-
Found./Crawl. Insul.	51	14	45	4	0	0	14	2	19,552	0.47	572	1.31	2,169	2,741	6	627	82	0	0	383.37	0.034	41	0.656	1,084	196	0.141	14	21	-	-
Bandjoist Insul.	38	0	38	0	0	0	-	0	4,711	0.00	0	0.00	0	0	3	255	0	0	0	123.98	-	-	-	-	-	0.068	7	-	-	-
Exhaust Ventilation	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Condensing Htg Sys Repl	57	0	52	4	1	0	-	-	137,275	0.00	0	0.00	0	0	54	5,336	577	140	0	2408.33	-	-	-	-	-	1.041	103	144	140	-
Non-Cond Htg Sys Repl	1	0	1	0	0	0	-	-	3,988	0.00	0	0.00	0	0	1	116	0	0	0	3988.00	-	-	-	-	-	1.178	116	-	-	-
Electric Htg Sys Repl	2	2	0	0	0	0	-	2	4,300	0.00	0	0.12	204	204	0	0	0	0	0	2150.00	-	-	0.062	102	102	-	-	-	-	-
Heat Pump Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other	Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	108	17	87	4	0	0	340	44	288	8	0	0	62,660	0.0	0.0	2,153	12.6	2,387	44	0	0	580.19	0.000	0.002	127	0.145	27	11	-	-
Temp. Reduct.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	102	17	82	3	0	0	102	17	82	3	0	0	69	0.00	0.00	566	0.7	241	10	0	0	0.67	0.000	0.000	33	0.008	3	3	-	-
LF Showerhead	46	8	38	0	0	0	46	8	38	0	0	0	152	0.00	0.03	1,106	0.9	272	0	0	0	3.30	0.000	0.003	138	0.023	7	-	-	-
Faucet Aerator	89	13	72	4	0	0	141	19	118	4	0	0	73	0.00	0.01	481	0.5	165	6	0	0	0.82	0.000	0.001	37	0.007	2	2	-	-
Std-Eff Wtr Htr Repl.	2	0	2	0	0	0	2	0	2	0	0	0	1,262	0.00	0.00	0	0.3	55	0	0	0	631.00	-	-	-	0.170	28	-	-	-
Hi-Eff Wtr Htr Repl.	49	0	48	1	0	0	49	0	48	1	0	0	61 105	0.00	0.00	0	10.1	1 654	28	0	0	1247.04	-	-	-	0.211	34	28	-	-
Lighting	104	104					1,061	1,061					6,335	2.2	4.1	20,880	-	-	-	-	-	60.91	0.021	0.039	201	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (13W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (14W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (15W)	104	104					1,047	1,047					6,161	2.15	3.96	20,433	-	-	-	-	-	59.24	0.021	0.038	196	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	1	1					3	3					18	0.01	0.01	71	-	-	-	-	-	17.64	0.008	0.014	71	-	-	-	-	-
CFL (23W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (25W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	7	7					11	11					156	0.04	0.07	376	-	-	-	-	-	22.29	0.006	0.010	54	-	-	-	-	-
Refrigerator/Freezer	34	34					39	39					32 163	1.93	1.80	15 654	-	-	-	-	-	945.97	0.057	0.053	460					
Refrigerator Removal	1	1					1	1					25	0.05	0.05	391	-	-	-	-	-	25.00	0.048	0.045	391	-	-	-	-	-
Refrigerator Exchange	27	27					27	27					26,672	1.31	1.22	10,622	-	-	-	-	-	987.85	0.048	0.045	393	-	-	-	-	-
Freezer Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	11	11					11	11					5,466	0.57	0.53	4,641	-	-	-	-	-	496.91	0.052	0.049	422	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 108 Total Households with Spending and/or Energy Impacts:

Total		**492,628**	**4561.37**
Unspecified Insul.	63	8,449	134.11
Duct Sealing	0	0	0.00
Duct Insulation	0	0	0.00
Damming Material	68	3,813	56.07
Htg. Sys. Tune & Clean	56	3,102	55.39
Htg. Sys./WH Other	48	13,307	277.23
Air Conditioning Work	0	0	0.00
Water Heater Repair	15	1,501	100.06
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	107	6,792	63.48
Smoke Detector	108	6,177	57.19
Fuses	0	0	0.00
Htg Sys Safety Check	108	6,257	57.94
Htg Sys Ventilation	3	600	200.00
Water Heater Ventilation	4	767	191.71
Bathroom Ventilation	83	17,189	207.09
Dryer Exhaust Ventilation	50	5,239	104.77
Other Exhaust Ventilation	74	22,033	297.74
Health/Safety Repairs	59	8,281	140.35
Health/Safety Other	0	0	0.00
Consumables	108	5,024	46.52
General Repairs	106	64 943	612.67
Meter Refrig (no action)	61	0	0.00
Meter Freezer (no action)	28	0	0.00
Support	108	319,156	2955.15
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**1,132,089**	**10,482.30**
Grand Total of Expenditures:		**1,132,089**	

Northeast Iowa Community Action Corporation
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**107**	**101**	**61**	**39**	**3**	**0**	**101**	**92**	**390,550**	**9.7**		**3.8**		**32,715**	**67**	**6,551**	**7,164**	**234**	**0**	**3650.00**	**0.096**		**0.041**		**324**	**1.094**	**107**	**184**	**78**	
Shell & Htg. Sys.	107	82	61	39	3	0	82	4	318,691	7.7	9,278	0.9	1,448	10,726	63	5,855	6,682	234	0	2978.42	0.094	113	0.232	362	131	1.030	96	171	78	-
Wall Insul.	35	21	21	13	0	0	21	1	33,405	1.96	2,359	0.13	204	2,563	16	1,529	1,055	0	0	954.43	0.093	112	0.131	204	122	0.781	73	81	-	-
Open Blown Ceiling Insul.	64	49	39	23	2	0	49	0	45,440	3.60	4,346	0.00	0	4,346	3	289	213	8	0	709.99	0.074	89	-	-	89	0.080	7	9	4	-
Cavity Fil Insul.	2	1	2	0	0	0	1	0	673	0.08	97	0.00	0	97	1	123	0	0	0	336.30	0.081	97	-	-	97	0.659	61	-	-	-
Sloped Attic Insul.	5	4	4	1	0	0	4	0	2,667	0.25	304	0.00	0	304	1	113	41	0	0	533.47	0.063	76	-	-	76	0.303	28	41	-	-
Kneewall Insul.	21	15	16	4	0	0	14	1	10,593	0.50	606	0.15	238	843	1	127	83	0	0	504.42	0.036	43	0.152	238	56	0.085	8	21	-	-
Infil. Reduction	100	79	58	36	3	0	79	3	39,275	0.83	997	0.35	549	1,546	9	855	588	43	0	392.75	0.010	13	0.117	183	20	0.158	15	16	14	-
Found./Crawl. Insul.	32	12	14	16	1	0	12	1	25,665	0.47	569	0.27	420	989	1	90	151	4	0	802.03	0.039	47	0.269	420	82	0.069	6	9	4	-
Bandjoist Insul.	74	1	42	30	1	0	-	1	23,435	0.00	0	0.11	170	170	2	220	151	5	0	316.69	-	-	0.109	170	170	0.056	5	5	5	-
Exhaust Ventilation	14	1	6	6	1	0	-	1	14,261	0.00	0	-0.09	(133)	(133)	(0)	(24)	(26)	(3)	0	1018.68	-	-	-0.085	(133)	(133)	-0.043	-4	-4	-3	-
Condensing Htg Sys Repl	65	0	33	30	2	0	-	-	113,066	0.00	0	0.00	0	0	27	2,490	4,175	176	0	1739.47	-	-	-	-	-	0.810	75	139	88	-
Non-Cond Htg Sys Repl	4	0	1	3	0	0	-	-	10,211	0.00	0	0.00	0	0	0	43	251	0	0	2552.75	-	-	-	-	-	0.460	43	84	-	-
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	99	48	35	16	0	0	164	75	59	30	0	0	57,665	0.0	0.0	4,255	3.9	696	482	0	0	582.48	0.000	0.001	89	0.111	20	30	-	-
Temp. Reduct.	32	17	11	4	0	0	32	17	11	4	0	0	0	0.00	0.00	1,498	0.2	62	28	0	0	0.00	0.000	0.000	88	0.016	6	7	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	81	45	25	11	0	0	81	45	25	11	0	0	330	0.00	0.00	1,479	0.2	56	27	0	0	4.07	0.000	0.000	33	0.006	2	2	-	-
LF Showerhead	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Faucet Aerator	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Std-Eff Wtr Htr Repl.	2	0	1	1	0	0	2	0	1	1	0	0	1,935	0.00	0.00	0	0.1	15	24	0	0	967.53	-	-	-	0.091	15	24	-	-
Hi-Eff Wtr Htr Repl.	49	13	22	14	0	0	49	13	22	14	0	0	55 400	0.00	0.03	1 278	3.4	562	403	0	0	1130.62	0.000	0.002	98	0.157	26	29	-	-
Lighting	71	71					404	404					899	1.1	2.0	10,168	-	-	-	-	-	12.66	0.015	0.028	143	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	1	1					1	1					2	0.00	0.00	13	-	-	-	-	-	2.25	0.001	0.002	13	-	-	-	-	-
CFL (13W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (14W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (15W)	34	34					146	146					326	0.30	0.55	2,858	-	-	-	-	-	9.59	0.009	0.016	84	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	35	35					137	137					303	0.34	0.64	3,278	-	-	-	-	-	8.66	0.010	0.018	94	-	-	-	-	-
CFL (23W)	37	37					111	111					248	0.39	0.72	3,727	-	-	-	-	-	6.70	0.011	0.020	101	-	-	-	-	-
CFL (25W)	3	3					9	9					20	0.03	0.06	292	-	-	-	-	-	6.58	0.010	0.019	97	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator/Freezer	18	18					19	19					13 295	0.93	0.87	7 566	-	-	-	-	-	738.61	0.052	0.048	420					
Refrigerator Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator Exchange	14	14					14	14					10,532	0.67	0.63	5,481	-	-	-	-	-	752.29	0.048	0.045	391	-	-	-	-	-
Freezer Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	5	5					5	5					2,763	0.26	0.24	2,085	-	-	-	-	-	552.60	0.051	0.048	417	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 107 Total Households with Spending and/or Energy Impacts:

Total		**311,003**	**2906.57**
Unspecified Insul.	43	8,330	193.72
Duct Sealing	3	714	238.01
Duct Insulation	3	375	125.02
Damming Material	1	35	34.81
Htg. Sys. Tune & Clean	1	450	450.00
Htg. Sys./WH Other	6	2,509	418.13
Air Conditioning Work	0	0	0.00
Water Heater Repair	2	126	63.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	99	4,460	45.05
Smoke Detector	81	871	10.75
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	0	0	0.00
Water Heater Ventilation	0	0	0.00
Bathroom Ventilation	68	10,101	148.54
Dryer Exhaust Ventilation	48	7,062	147.11
Other Exhaust Ventilation	79	34,226	433.25
Health/Safety Repairs	29	3,966	136.75
Health/Safety Other	2	342	171.20
Consumables	58	999	17.22
General Repairs	85	27 735	326.30
Meter Refrig (no action)	91	0	0.00
Meter Freezer (no action)	37	0	0.00
Support	106	191,759	1809.05
Transportation Allowance	72	11,696	162.44
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	63	5,248	83.30
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**701,553**	**6,556.57**
Grand Total of Expenditures:		**701,553**	

Operation: New View Community Action Agency
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**87**	**87**	**55**	**22**	**3**	**0**	**87**	**86**	**348,380**	**13.5**		**10.8**		**62,882**	**117**	**11,093**	**6,183**	**462**	**0**	**4004.36**	**0.155**		**0.126**		**723**	**2.119**	**202**	**281**	**154**	
Shell & Htg. Sys.	87	80	55	22	3	0	80	7	270,437	8.3	10,047	3.3	5,148	15,194	112	10,323	5,862	462	0	3108.47	0.104	126	0.477	735	190	2.042	188	266	154	-
Wall Insul.	29	27	21	7	1	0	27	0	38,302	2.49	3,005	0.00	0	3,005	16	1,481	868	52	0	1320.76	0.092	111	-	-	111	0.767	71	124	52	-
Open Blown Ceiling Insul.	53	49	33	15	1	0	49	4	30,838	2.61	3,146	1.49	2,301	5,446	16	1,434	617	95	0	581.84	0.053	64	0.373	575	111	0.473	43	41	95	-
Cavity Fil Insul.	28	25	20	5	2	0	25	1	26,398	1.03	1,239	0.45	696	1,935	13	1,198	494	20	0	942.80	0.041	50	0.452	696	77	0.652	60	99	10	-
Sloped Attic Insul.	24	22	19	4	1	0	22	0	7,642	0.59	711	0.00	0	711	7	655	158	22	0	318.44	0.027	32	-	-	32	0.375	34	40	22	-
Kneewall Insul.	9	8	7	1	1	0	8	0	3,194	0.11	128	0.00	0	128	1	122	8	36	0	354.89	0.013	16	-	-	16	0.189	17	8	36	-
Infil. Reduction	87	80	55	22	3	0	80	7	23,816	0.80	961	0.32	493	1,454	10	959	564	18	0	273.75	0.010	12	0.046	70	18	0.190	17	26	6	-
Found./Crawl. Insul.	38	18	25	9	2	0	18	2	32,363	0.71	856	1.03	1,587	2,444	10	926	329	41	0	851.64	0.039	48	0.515	794	136	0.403	37	37	21	-
Bandjoist Insul.	20	0	8	11	1	0	-	0	1,391	0.00	0	0.00	0	0	0	18	39	0	0	69.56	-	-	-	-	-	0.024	2	4	0	-
Exhaust Ventilation	1	0	0	1	0	0	-	0	1,250	0.00	0	0.00	0	0	0	0	(7)	0	0	1250.00	-	-	-	-	-	-	-	-7	-	-
Condensing Htg Sys Repl	36	0	21	13	2	0	-	-	82,432	0.00	0	0.00	0	0	31	2,870	2,521	177	0	2289.78	-	-	-	-	-	1.487	137	194	88	-
Non-Cond Htg Sys Repl	10	0	7	3	0	0	-	-	21,166	0.00	0	0.00	0	0	7	660	271	0	0	2116.56	-	-	-	-	-	1.026	94	90	-	-
Electric Htg Sys Repl	1	1	0	0	0	0	-	1	1,645	0.00	0	0.05	70	70	0	0	0	0	0	1645.00	-	-	0.046	70	70	-	-	-	-	-
Heat Pump Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	84	33	41	10	0	0	117	41	59	17	0	0	38,423	0.0	0.0	1,799	4.3	770	321	0	0	457.42	0.000	0.001	55	0.104	19	32	-	-
Temp. Reduct.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	83	32	41	10	0	0	83	32	41	10	0	0	484	0.00	0.00	1,107	0.4	141	41	0	0	5.83	0.000	0.000	35	0.010	3	4	-	-
LF Showerhead	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Faucet Aerator	2	1	1	0	0	0	3	2	1	0	0	0	9	0.00	0.00	57	0.0	2	0	0	0	4.50	0.000	0.001	57	0.005	2	-	-	-
Std-Eff Wtr Htr Repl.	9	2	4	3	0	0	9	2	4	3	0	0	11,331	0.00	0.00	45	0.6	98	87	0	0	1258.98	0.000	0.001	23	0.150	24	29	-	-
Hi-Eff Wtr Htr Repl.	22	5	13	4	0	0	22	5	13	4	0	0	26 600	0.00	0.01	590	3.2	529	192	0	0	1209.07	0.000	0.003	118	0.250	41	48	-	-
Lighting	86	86					923	923					6,461	2.9	5.4	27,618	-	-	-	-	-	75.13	0.034	0.062	321	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (13W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (14W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (15W)	18	18					167	167					1,169	0.34	0.64	3,280	-	-	-	-	-	64.94	0.019	0.035	182	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	6	6					66	66					462	0.17	0.30	1,572	-	-	-	-	-	77.00	0.028	0.051	262	-	-	-	-	-
CFL (23W)	11	11					115	115					805	0.41	0.75	3,887	-	-	-	-	-	73.18	0.037	0.069	353	-	-	-	-	-
CFL (25W)	51	51					575	575					4,025	1.98	3.66	18,879	-	-	-	-	-	78.92	0.039	0.072	370	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator/Freezer	36	36					45	45					33 058	2.25	2.10	18 271	-	-	-	-	-	918.28	0.062	0.058	508					
Refrigerator Removal	1	1					1	1					30	0.05	0.05	391	-	-	-	-	-	30.00	0.048	0.045	391	-	-	-	-	-
Refrigerator Exchange	30	30					33	33					26,179	1.61	1.50	13,074	-	-	-	-	-	872.63	0.054	0.050	436	-	-	-	-	-
Freezer Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	10	10					11	11					6,849	0.59	0.55	4,805	-	-	-	-	-	684.90	0.059	0.055	481	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 87 Total Households with Spending and/or Energy Impacts:

Total		**278,203**	**3197.73**
Unspecified Insul.	59	4,408	74.71
Duct Sealing	60	2,382	39.70
Duct Insulation	45	1,144	25.41
Damming Material	42	1,184	28.19
Htg. Sys. Tune & Clean	35	7,676	219.31
Htg. Sys./WH Other	17	14,074	827.89
Air Conditioning Work	0	0	0.00
Water Heater Repair	7	584	83.49
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	78	7,367	94.45
Smoke Detector	46	3,341	72.63
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	46	12,399	269.55
Water Heater Ventilation	28	7,663	273.68
Bathroom Ventilation	33	2,115	64.08
Dryer Exhaust Ventilation	64	3,595	56.16
Other Exhaust Ventilation	67	12,740	190.15
Health/Safety Repairs	18	3,525	195.83
Health/Safety Other	7	414	59.14
Consumables	0	0	0.00
General Repairs	74	24 028	324.70
Meter Refrig (no action)	54	0	0.00
Meter Freezer (no action)	29	0	0.00
Support	87	168,579	1937.69
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	10	986	98.62
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**626,583**	**7,202.10**
Grand Total of Expenditures:		**626,583**	

Operation Threshold
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**119**	**119**	**113**	**5**	**0**	**0**	**119**	**114**	**673,183**	**19.4**		**6.2**		**54,012**	**303**	**30,036**	**2,213**	**0**	**0**	**5657.00**	**0.163**		**0.054**		**454**	**2.680**	**266**	**443**		
Shell & Htg. Sys.	119	107	113	5	0	0	107	1	563,063	16.1	19,474	1.4	2,257	21,731	284	26,434	2,213	0	0	4731.62	0.151	182	1.446	2,257	203	2.511	234	443	-	-
Wall Insul.	83	72	80	3	0	0	72	0	148,663	6.79	8,189	0.00	0	8,189	81	7,566	460	0	0	1791.13	0.094	114	-	-	114	1.015	95	153	-	-
Open Blown Ceiling Insul.	94	85	91	2	0	0	85	1	59,103	5.67	6,843	1.20	1,869	8,712	53	4,966	255	0	0	628.76	0.067	81	1.197	1,869	102	0.586	55	127	-	-
Cavity Fil Insul.	40	26	37	3	0	0	26	0	40,431	1.16	1,400	0.00	0	1,400	29	2,739	357	0	0	1010.76	0.045	54	-	-	54	0.795	74	119	-	-
Sloped Attic Insul.	32	23	31	1	0	0	23	0	13,615	0.70	840	0.00	0	840	15	1,373	4	0	0	425.48	0.030	37	-	-	37	0.476	44	4	-	-
Kneewall Insul.	21	15	21	0	0	0	15	0	5,732	0.28	342	0.00	0	342	6	517	0	0	0	272.96	0.019	23	-	-	23	0.264	25	-	-	-
Infil. Reduction	119	107	113	5	0	0	107	1	68,677	1.19	1,438	0.21	335	1,772	16	1,504	78	0	0	577.12	0.011	13	0.214	335	17	0.143	13	16	-	-
Found./Crawl. Insul.	33	10	30	2	0	0	9	1	21,579	0.35	422	0.02	25	447	8	722	89	0	0	653.90	0.039	47	0.016	25	45	0.258	24	44	-	-
Bandjoist Insul.	48	1	44	3	0	0	-	1	4,803	0.00	0	0.03	47	47	3	278	24	0	0	100.07	-	-	0.030	47	47	0.068	6	8	-	-
Exhaust Ventilation	59	1	57	1	0	0	-	1	73,413	0.00	0	-0.09	(133)	(133)	(4)	(377)	(7)	0	0	1244.29	-	-	-0.085	(133)	(133)	-0.071	-7	-7	-	-
Condensing Htg Sys Repl	54	0	50	4	0	0	-	-	106,233	0.00	0	0.00	0	0	70	6,501	859	0	0	1967.28	-	-	-	-	-	1.396	130	215	-	-
Non-Cond Htg Sys Repl	5	0	4	1	0	0	-	-	19,078	0.00	0	0.00	0	0	7	645	96	0	0	3815.60	-	-	-	-	-	1.732	161	96	-	-
Electric Htg Sys Repl	1	1	0	0	0	0	-	1	1,736	0.00	0	0.07	115	115	0	0	0	0	0	1736.00	-	-	0.073	115	115	-	-	-	-	-
Heat Pump Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other	Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	118	21	97	0	0	0	379	58	321	0	0	0	85,713	0.0	0.1	3,134	19.0	3,603	0	0	0	726.38	0.000	0.003	149	0.196	37	-	-	-
Temp. Reduct.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	112	19	93	0	0	0	112	19	93	0	0	0	615	0.00	0.00	627	1.0	343	0	0	0	5.49	0.000	0.000	33	0.011	4	-	-	-
LF Showerhead	62	10	52	0	0	0	62	10	52	0	0	0	620	0.00	0.03	1,339	1.5	469	0	0	0	10.00	0.000	0.003	134	0.029	9	-	-	-
Faucet Aerator	82	14	68	0	0	0	139	23	116	0	0	0	417	0.00	0.01	578	0.7	204	0	0	0	5.09	0.000	0.001	41	0.010	3	-	-	-
Std-Eff Wtr Htr Repl.	10	0	10	0	0	0	10	0	10	0	0	0	9,265	0.00	0.00	0	1.7	285	0	0	0	926.45	-	-	-	0.175	28	-	-	-
Hi-Eff Wtr Htr Repl.	56	6	50	0	0	0	56	6	50	0	0	0	74 796	0.00	0.01	590	14.1	2 301	0	0	0	1335.65	0.000	0.002	98	0.282	46	-	-	-
Lighting	113	113					783	783					5,481	1.8	3.2	16,731	-	-	-	-	-	48.50	0.016	0.029	148	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	32	32					151	151					1,057	0.20	0.37	1,906	-	-	-	-	-	33.03	0.006	0.012	60	-	-	-	-	-
CFL (13W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (14W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (15W)	93	93					452	452					3,164	0.93	1.71	8,823	-	-	-	-	-	34.02	0.010	0.018	95	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (23W)	62	62					180	180					1,260	0.63	1.16	6,002	-	-	-	-	-	20.32	0.010	0.019	97	-	-	-	-	-
CFL (25W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator/Freezer	28	28					31	31					18 926	1.53	1.43	12 417	-	-	-	-	-	675.93	0.055	0.051	443					
Refrigerator Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator Exchange	22	22					22	22					15,336	1.07	1.00	8,664	-	-	-	-	-	697.09	0.048	0.045	394	-	-	-	-	-
Freezer Removal	1	1					1	1					25	0.05	0.05	417	-	-	-	-	-	25.00	0.051	0.048	417	-	-	-	-	-
Freezer Exchange	8	8					8	8					3,565	0.41	0.38	3,335	-	-	-	-	-	445.63	0.051	0.048	417	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 119 Total Households with Spending and/or Energy Impacts:

Total		**474,435**	**3986.85**
Unspecified Insul.	108	15,818	146.46
Duct Sealing	101	10,289	101.87
Duct Insulation	36	2,901	80.59
Damming Material	63	1,956	31.05
Htg. Sys. Tune & Clean	60	4,575	76.24
Htg. Sys./WH Other	50	11,950	239.01
Air Conditioning Work	43	1,159	26.94
Water Heater Repair	16	399	24.95
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	114	4,908	43.05
Smoke Detector	20	836	41.82
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	3	353	117.60
Water Heater Ventilation	9	1,951	216.79
Bathroom Ventilation	14	1,473	105.23
Dryer Exhaust Ventilation	80	5,987	74.83
Other Exhaust Ventilation	69	7,188	104.18
Health/Safety Repairs	52	4,231	81.36
Health/Safety Other	25	1 074	42.96
Consumables	55	2,133	38.78
General Repairs	112	53 329	476.15
Meter Refrig (no action)	72	0	0.00
Meter Freezer (no action)	31	0	0.00
Support	119	311,882	2620.86
Transportation Allowance	55	6,939	126.17
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	87	23,103	265.55
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**1,147,618**	**9,643.85**
Grand Total of Expenditures:		**1,147,618**	

Red Rock Area Community Action
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings, Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**40**	**40**	**38**	**1**	**0**	**0**	**40**	**33**	**240,054**	**6.1**		**1.7**		**15,182**	**69**	**6,820**	**157**	**0**	**0**	**6001.34**	**0.152**		**0.051**		**380**	**1.825**	**179**	**157**		
Shell & Htg. Sys.	40	40	38	1	0	0	40	1	203,568	5.2	6,297	0.5	716	7,013	65	6,051	157	0	0	5089.20	0.131	157	0.459	716	175	1.709	159	157	-	-
Wall Insul.	17	17	17	0	0	0	17	0	25,948	1.56	1,884	0.00	0	1,884	13	1,205	0	0	0	1526.34	0.092	111	-	-	111	0.761	71	-	-	-
Open Blown Ceiling Insul.	32	32	31	0	0	0	32	1	23,658	2.13	2,574	0.32	506	3,080	9	878	0	0	0	739.33	0.067	80	0.324	506	96	0.304	28	-	-	-
Cavity Fil Insul.	7	6	7	0	0	0	6	0	8,004	0.35	417	0.00	0	417	6	539	0	0	0	1143.40	0.058	69	-	-	69	0.826	77	-	-	-
Sloped Attic Insul.	7	6	7	0	0	0	6	0	3,740	0.27	322	0.00	0	322	4	329	0	0	0	534.23	0.045	54	-	-	54	0.505	47	-	-	-
Kneewall Insul.	10	10	10	0	0	0	10	0	2,116	0.18	213	0.00	0	213	1	102	0	0	0	211.60	0.018	21	-	-	21	0.109	10	-	-	-
Infil. Reduction	40	40	38	1	0	0	40	1	29,442	0.42	502	0.06	100	602	8	736	42	0	0	736.04	0.010	13	0.064	100	15	0.208	19	42	-	-
Found./Crawl. Insul.	17	9	16	0	0	0	8	1	12,763	0.32	384	0.03	52	436	3	300	0	0	0	750.76	0.040	48	0.033	52	48	0.201	19	-	-	-
Bandjoist Insul.	20	0	19	1	0	0	-	0	1,980	0.00	0	0.00	0	0	1	95	0	0	0	98.98	-	-	-	-	-	0.053	5	0	-	-
Exhaust Ventilation	15	0	14	1	0	0	-	0	16,675	0.00	0	0.00	0	0	(1)	(73)	(5)	0	0	1111.67	-	-	-	-	-	-0.056	-5	-5	-	-
Condensing Htg Sys Repl	25	0	24	1	0	0	-	-	74,215	0.00	0	0.00	0	0	20	1,837	120	0	0	2968.61	-	-	-	-	-	0.821	77	120	-	-
Non-Cond Htg Sys Repl	2	0	2	0	0	0	-	-	3,625	0.00	0	0.00	0	0	1	103	0	0	0	1812.50	-	-	-	-	-	0.550	51	-	-	-
Electric Htg Sys Repl	1	1	0	0	0	0	-	1	1,403	0.00	0	0.04	59	59	0	0	0	0	0	1402.94	-	-	0.038	59	59	-	-	-	-	-
Heat Pump Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	34	6	28	0	0	0	58	10	48	0	0	0	30,836	0.0	0.0	607	4.4	769	0	0	0	906.94	0.000	0.002	101	0.159	27	-	-	-
Temp. Reduct.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	28	6	22	0	0	0	28	6	22	0	0	0	84	0.00	0.00	201	0.2	63	0	0	0	3.00	0.000	0.000	33	0.008	3	-	-	-
LF Showerhead	3	0	3	0	0	0	3	0	3	0	0	0	30	0.00	0.00	0	0.1	20	0	0	0	10.00	-	-	-	0.022	7	-	-	-
Faucet Aerator	2	0	2	0	0	0	3	0	3	0	0	0	9	0.00	0.00	0	0.0	4	0	0	0	4.50	-	-	-	0.007	2	-	-	-
Std-Eff Wtr Htr Repl.	2	0	2	0	0	0	2	0	2	0	0	0	2,069	0.00	0.00	0	0.2	34	0	0	0	1034.50	-	-	-	0.103	17	-	-	-
Hi-Eff Wtr Htr Repl.	22	4	18	0	0	0	22	4	18	0	0	0	28 644	0.00	0.01	406	4.0	648	0	0	0	1301.99	0.000	0.003	102	0.221	36	-	-	-
Lighting	30	30					208	208					1,544	0.5	0.8	4,328	-	-	-	-	-	51.47	0.015	0.028	144	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (13W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (14W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (15W)	28	28					171	171					1,197	0.35	0.65	3,340	-	-	-	-	-	42.75	0.013	0.023	119	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	12	12					26	26					182	0.07	0.12	619	-	-	-	-	-	15.17	0.005	0.010	52	-	-	-	-	-
CFL (23W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (25W)	1	1					2	2					30	0.01	0.01	65	-	-	-	-	-	30.00	0.007	0.013	65	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	7	7					9	9					135	0.03	0.06	304	-	-	-	-	-	19.29	0.005	0.008	43	-	-	-	-	-
Refrigerator/Freezer	7	7					8	8					4 106	0.40	0.37	3 234	-	-	-	-	-	586.56	0.057	0.053	462					
Refrigerator Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator Exchange	4	4					4	4					2,204	0.19	0.18	1,566	-	-	-	-	-	550.99	0.048	0.045	391	-	-	-	-	-
Freezer Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	4	4					4	4					1,902	0.21	0.19	1,668	-	-	-	-	-	475.49	0.051	0.048	417	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 41 Total Households with Spending and/or Energy Impacts:

Total		**225,842**	**5508.33**
Unspecified Insul.	37	11,964	323.35
Duct Sealing	6	1,040	173.33
Duct Insulation	34	2,113	62.16
Damming Material	28	1,901	67.89
Htg. Sys. Tune & Clean	14	4,433	316.64
Htg. Sys./WH Other	8	5,875	734.38
Air Conditioning Work	0	0	0.00
Water Heater Repair	2	350	175.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	37	716	19.36
Smoke Detector	31	932	30.08
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	1	25	25.00
Water Heater Ventilation	5	1,675	335.00
Bathroom Ventilation	39	5,756	147.59
Dryer Exhaust Ventilation	26	2,111	81.19
Other Exhaust Ventilation	26	16,224	624.00
Health/Safety Repairs	22	2,500	113.64
Health/Safety Other	31	2 397	77.32
Consumables	0	0	0.00
General Repairs	40	33 473	836.83
Meter Refrig (no action)	33	0	0.00
Meter Freezer (no action)	14	0	0.00
Support	40	132,355	3308.88
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**465,895**	**11,363.30**
Grand Total of Expenditures:		**465,895**	

South Central Iowa Community Action Program
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**52**	**51**	**29**	**14**	**0**	**0**	**51**	**47**	**238,726**	**8.6**		**13.2**		**44,754**	**65**	**5,999**	**3,414**	**0**	**0**	**4590.89**	**0.169**		**0.280**		**878**	**2.243**	**207**	**244**		
Shell & Htg. Sys.	52	46	29	14	0	0	46	9	204,793	6.7	8,046	10.2	15,019	23,066	62	5,496	3,191	0	0	3938.32	0.145	175	1.132	1,669	501	2.153	190	228	-	-
Wall Insul.	16	13	8	5	0	0	13	3	15,119	1.53	1,842	0.42	622	2,464	5	470	275	0	0	944.94	0.117	142	0.141	207	190	0.667	59	55	-	-
Open Blown Ceiling Insul.	37	34	24	7	0	0	34	6	28,883	3.41	4,107	7.08	10,434	14,541	21	1,830	551	0	0	780.63	0.100	121	1.179	1,739	428	0.867	76	79	-	-
Cavity Fil Insul.	17	14	11	5	0	0	14	1	8,798	0.35	421	0.16	239	660	3	239	157	0	0	517.55	0.025	30	0.162	239	47	0.247	22	31	-	-
Sloped Attic Insul.	7	6	4	2	0	0	6	1	2,246	0.21	257	0.32	471	728	1	106	138	0	0	320.81	0.036	43	0.319	471	121	0.301	27	69	-	-
Kneewall Insul.	8	6	6	2	0	0	6	0	1,358	0.02	26	0.00	0	26	0	20	16	0	0	169.69	0.004	4	-	-	4	0.037	3	8	-	-
Infil. Reduction	51	46	29	13	0	0	46	9	25,818	0.58	698	0.89	1,312	2,010	6	536	232	0	0	506.23	0.013	15	0.099	146	44	0.210	18	18	-	-
Found./Crawl. Insul.	21	11	10	8	0	0	11	3	13,488	0.58	695	0.83	1,228	1,923	2	207	177	0	0	642.27	0.052	63	0.278	409	175	0.235	21	22	-	-
Bandjoist Insul.	27	6	15	6	0	0	-	6	2,668	0.00	0	0.17	254	254	0	43	24	0	0	98.83	-	-	0.029	42	42	0.032	3	4	-	-
Exhaust Ventilation	2	1	1	0	0	0	-	1	1,678	0.00	0	-0.09	(133)	(133)	(0)	(6)	0	0	0	838.75	-	-	-0.090	(133)	(133)	-0.066	-6	-	-	-
Condensing Htg Sys Repl	23	0	19	4	0	0	-	-	64,595	0.00	0	0.00	0	0	23	1,987	591	0	0	2808.47	-	-	-	-	-	1.188	105	148	-	-
Non-Cond Htg Sys Repl	7	0	1	6	0	0	-	-	21,685	0.00	0	0.00	0	0	1	64	726	0	0	3097.81	-	-	-	-	-	0.728	64	121	-	-
Electric Htg Sys Repl	7	5	0	2	0	0	-	5	12,258	0.00	0	0.33	484	484	0	0	304	0	0	1751.07	-	-	0.066	97	69	-	-	152	-	-
Heat Pump Repl	1	1	0	0	0	0	-	1	6,200	0.00	0	0.07	108	108	0	0	0	0	0	6200.00	-	-	0.074	108	108	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	49	24	14	11	0	0	167	73	52	42	0	0	20,880	0.0	0.1	4,148	2.6	503	223	0	0	426.13	0.000	0.003	173	0.185	36	20	-	-
Temp. Reduct.	11	5	6	0	0	0	11	5	6	0	0	0	0	0.00	0.00	452	0.1	49	0	0	0	0.00	0.000	0.000	90	0.024	8	-	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	11	6	3	2	0	0	11	6	3	2	0	0	36	0.00	0.00	205	0.0	10	7	0	0	3.28	0.000	0.000	34	0.009	3	4	-	-
LF Showerhead	26	11	8	7	0	0	29	11	8	10	0	0	267	0.00	0.03	1,526	0.2	64	62	0	0	10.26	0.000	0.003	139	0.026	8	9	-	-
Faucet Aerator	42	21	11	10	0	0	95	43	26	26	0	0	153	0.00	0.03	1,127	0.1	40	45	0	0	3.65	0.000	0.001	54	0.012	4	4	-	-
Std-Eff Wtr Htr Repl.	4	0	0	4	0	0	4	0	0	4	0	0	5,520	0.00	0.00	0	0.0	0	109	0	0	1380.00	-	-	-	-	-	27	-	-
Hi-Eff Wtr Htr Repl.	17	8	9	0	0	0	17	8	9	0	0	0	14 904	0.00	0.02	838	2.1	340	0	0	0	876.71	0.000	0.003	105	0.231	38	-	-	-
Lighting	43	43					546	546					1,125	1.2	2.2	11,199	-	-	-	-	-	26.16	0.027	0.051	260	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (13W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (14W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (15W)	41	41					486	486					953	1.02	1.88	9,716	-	-	-	-	-	23.26	0.025	0.046	237	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	7	7					57	57					137	0.15	0.27	1,383	-	-	-	-	-	19.50	0.021	0.038	198	-	-	-	-	-
CFL (23W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (25W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	2	2					3	3					35	0.01	0.02	100	-	-	-	-	-	17.49	0.005	0.010	50	-	-	-	-	-
Refrigerator/Freezer	16	16					16	16					11 929	0.78	0.73	6 341	-	-	-	-	-	745.53	0.049	0.046	396					
Refrigerator Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator Exchange	15	15					15	15					11,349	0.73	0.68	5,924	-	-	-	-	-	756.57	0.049	0.045	395	-	-	-	-	-
Freezer Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	1	1					1	1					580	0.05	0.05	417	-	-	-	-	-	580.00	0.051	0.048	417	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 52 Total Households with Spending and/or Energy Impacts:

Total		**184,866**	**3555.11**
Unspecified Insul.	36	3,346	92.95
Duct Sealing	2	313	156.45
Duct Insulation	7	322	46.00
Damming Material	14	264	18.85
Htg. Sys. Tune & Clean	27	1,926	71.33
Htg. Sys./WH Other	10	3,213	321.28
Air Conditioning Work	0	0	0.00
Water Heater Repair	9	755	83.89
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	39	842	21.59
Smoke Detector	33	808	24.48
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	29	10,250	353.44
Water Heater Ventilation	5	1,109	221.80
Bathroom Ventilation	10	1,281	128.07
Dryer Exhaust Ventilation	24	1,412	58.83
Other Exhaust Ventilation	10	3,430	342.96
Health/Safety Repairs	30	3,671	122.37
Health/Safety Other	13	1 719	132.24
Consumables	0	0	0.00
General Repairs	44	32 649	742.03
Meter Refrig (no action)	35	0	0.00
Meter Freezer (no action)	23	0	0.00
Support	52	110,546	2125.89
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	23	6,930	301.32
Unspecifed	8	80	10.00
Total Reported Materials, Labor, and Support Costs:		**423,592**	**8,146.00**
Grand Total of Expenditures:		**423,592**	

Community Action of South Eastern Iowa
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**75**	**69**	**68**	**6**	**0**	**0**	**69**	**48**	**450,706**	**17.2**		**2.9**		**33,074**	**236**	**20,795**	**1,337**	**0**	**0**	**6009.42**	**0.250**		**0.061**		**479**	**3.469**	**306**	**223**		
Shell & Htg. Sys.	75	63	68	6	0	0	63	1	395,754	15.9	19,124	1.1	1,507	20,631	225	18,976	1,263	0	0	5276.72	0.252	304	1.068	1,507	327	3.314	279	210	-	-
Wall Insul.	54	44	49	5	0	0	44	0	68,889	6.11	7,369	0.00	0	7,369	51	4,273	379	0	0	1275.73	0.139	167	-	-	167	1.036	87	76	-	-
Open Blown Ceiling Insul.	66	57	59	6	0	0	57	1	72,942	6.08	7,337	0.26	373	7,710	51	4,312	435	0	0	1105.19	0.107	129	0.264	373	135	0.868	73	72	-	-
Cavity Fil Insul.	5	4	5	0	0	0	4	0	2,308	0.25	300	0.00	0	300	3	234	0	0	0	461.58	0.062	75	-	-	75	0.556	47	-	-	-
Sloped Attic Insul.	27	23	24	3	0	0	23	0	4,867	1.19	1,437	0.00	0	1,437	14	1,163	74	0	0	180.26	0.052	62	-	-	62	0.576	48	25	-	-
Kneewall Insul.	14	13	13	0	0	0	13	1	9,882	0.32	389	0.52	727	1,117	2	141	0	0	0	705.87	0.025	30	0.516	727	86	0.129	11	-	-	-
Infil. Reduction	73	61	66	6	0	0	61	1	75,662	0.94	1,135	0.09	122	1,256	18	1,495	87	0	0	1036.47	0.015	19	0.086	122	21	0.269	23	15	-	-
Found./Crawl. Insul.	44	17	38	5	0	0	16	1	23,626	0.96	1,157	0.18	260	1,417	9	738	102	0	0	536.95	0.060	72	0.184	260	83	0.231	19	20	-	-
Bandjoist Insul.	46	1	41	4	0	0	-	1	5,454	0.00	0	0.02	25	25	3	265	47	0	0	118.57	-	-	0.018	25	25	0.077	6	12	-	-
Exhaust Ventilation	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Condensing Htg Sys Repl	51	0	50	1	0	0	-	-	125,804	0.00	0	0.00	0	0	74	6,224	138	0	0	2466.75	-	-	-	-	-	1.479	124	138	-	-
Non-Cond Htg Sys Repl	1	0	1	0	0	0	-	-	6,319	0.00	0	0.00	0	0	2	131	0	0	0	6319.00	-	-	-	-	-	1.553	131	-	-	-
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	67	5	59	3	0	0	103	6	92	5	0	0	45,096	0.0	0.0	266	10.5	1,819	74	0	0	673.07	0.000	0.001	53	0.178	31	25	-	-
Temp. Reduct.	6	0	6	0	0	0	6	0	6	0	0	0	0	0.00	0.00	0	0.1	49	0	0	0	0.00	-	-	-	0.024	8	-	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	53	5	45	3	0	0	53	5	45	3	0	0	81	0.00	0.00	168	0.4	148	11	0	0	1.53	0.000	0.000	34	0.009	3	4	-	-
LF Showerhead	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Faucet Aerator	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Std-Eff Wtr Htr Repl.	3	0	1	2	0	0	3	0	1	2	0	0	3,046	0.00	0.00	0	0.2	25	64	0	0	1015.45	-	-	-	0.155	25	32	-	-
Hi-Eff Wtr Htr Repl.	41	1	40	0	0	0	41	1	40	0	0	0	41 968	0.00	0.00	98	9.8	1 597	0	0	0	1023.61	0.000	0.002	98	0.245	40	-	-	-
Lighting	42	42					285	285					388	0.6	1.1	5,836	-	-	-	-	-	9.25	0.015	0.027	139	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	3	3					18	18					44	0.02	0.04	226	-	-	-	-	-	14.70	0.008	0.015	75	-	-	-	-	-
CFL (13W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (14W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (15W)	38	38					238	238					261	0.49	0.90	4,653	-	-	-	-	-	6.87	0.013	0.024	122	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	1	1					1	1					2	0.00	0.00	24	-	-	-	-	-	1.91	0.003	0.005	24	-	-	-	-	-
CFL (23W)	11	11					22	22					35	0.08	0.14	734	-	-	-	-	-	3.18	0.007	0.013	67	-	-	-	-	-
CFL (25W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	5	5					6	6					46	0.02	0.04	200	-	-	-	-	-	9.28	0.004	0.008	40	-	-	-	-	-
Refrigerator/Freezer	15	15					16	16					9 468	0.78	0.73	6 340	-	-	-	-	-	631.21	0.052	0.049	423					
Refrigerator Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator Exchange	13	13					13	13					8,343	0.63	0.59	5,089	-	-	-	-	-	641.79	0.048	0.045	391	-	-	-	-	-
Freezer Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	3	3					3	3					1,125	0.15	0.14	1,251	-	-	-	-	-	374.98	0.051	0.048	417	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 75 Total Households with Spending and/or Energy Impacts:

Total		**324,041**	**4320.55**
Unspecified Insul.	57	2,721	47.75
Duct Sealing	0	0	0.00
Duct Insulation	9	457	50.75
Damming Material	29	668	23.05
Htg. Sys. Tune & Clean	26	3,153	121.25
Htg. Sys./WH Other	29	19,394	668.77
Air Conditioning Work	0	0	0.00
Water Heater Repair	9	1,480	164.44
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	39	626	16.05
Smoke Detector	18	142	7.88
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	7	1,345	192.07
Water Heater Ventilation	0	0	0.00
Bathroom Ventilation	14	296	21.18
Dryer Exhaust Ventilation	47	716	15.24
Other Exhaust Ventilation	34	1,062	31.25
Health/Safety Repairs	26	1,045	40.20
Health/Safety Other	1	17	17.22
Consumables	68	1,415	20.80
General Repairs	71	63 289	891.40
Meter Refrig (no action)	39	0	0.00
Meter Freezer (no action)	12	0	0.00
Support	75	213,024	2840.33
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	59	13,156	222.99
Unspecifed	4	33	8.35
Total Reported Materials, Labor, and Support Costs:		**774,748**	**10,329.97**
Grand Total of Expenditures:		**774,748**	

Southern Iowa Economic Development Authority
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**93**	**93**	**46**	**20**	**0**	**2**	**92**	**77**	**463,365**	**19.4**		**23.4**		**77,401**	**121**	**11,226**	**4,739**	**0**	**31**
Shell & Htg. Sys.	93	91	46	20	0	2	90	25	388,475	16.8	20,293	19.5	28,752	49,045	116	10,176	4,274	0	31
Wall Insul.	54	52	30	14	0	1	52	9	65,810	6.06	7,308	6.84	10,085	17,393	28	2,446	941	0	10
Open Blown Ceiling Insul.	75	73	40	16	0	1	72	18	57,396	6.20	7,480	6.38	9,411	16,890	20	1,768	938	0	16
Cavity Fil Insul.	10	10	8	1	0	0	10	1	7,005	0.56	672	0.25	371	1,043	4	368	15	0	0
Sloped Attic Insul.	31	30	20	7	0	0	30	4	13,285	1.65	1,990	1.39	2,052	4,043	9	828	375	0	0
Kneewall Insul.	6	6	2	4	0	0	6	0	6,028	0.02	29	0.00	0	29	0	10	24	0	0
Infil. Reduction	93	91	46	20	0	2	90	25	50,916	1.09	1,309	3.30	4,860	6,170	11	972	317	0	3
Found./Crawl. Insul.	39	24	21	12	0	1	24	5	15,394	1.25	1,504	0.59	865	2,370	3	225	294	0	1
Bandjoist Insul.	61	12	31	17	0	1	-	12	9,573	0.00	0	0.64	943	943	2	141	104	0	1
Exhaust Ventilation	7	3	1	3	0	0	-	3	6,026	0.00	0	-0.27	(399)	(399)	(0)	(6)	(20)	0	0
Condensing Htg Sys Repl	36	0	28	8	0	0	-	-	128,970	0.00	0	0.00	0	0	37	3,277	1,226	0	0
Non-Cond Htg Sys Repl	4	0	3	1	0	0	-	-	14,373	0.00	0	0.00	0	0	2	147	60	0	0
Electric Htg Sys Repl	7	7	0	0	0	0	-	7	13,699	0.00	0	0.38	564	564	0	0	0	0	0
Heat Pump Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0

Measure	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	81	37	32	12	0	0	52,900	0.0	0.1	4,895	5.8	1,050	465	0	0
Temp. Reduct.	20	14	5	1	0	0	0	0.00	0.00	1,315	0.1	42	9	0	0
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0
Pipe Insul.	46	22	15	9	0	0	269	0.00	0.00	773	0.1	51	33	0	0
LF Showerhead	16	7	6	3	0	0	157	0.00	0.02	990	0.2	49	27	0	0
Faucet Aerator	45	21	18	6	0	0	264	0.00	0.03	1,103	0.2	56	21	0	0
Std-Eff Wtr Htr Repl.	5	0	3	2	0	0	6,140	0.00	0.00	0	0.5	75	57	0	0
Hi-Eff Wtr Htr Repl.	33	7	18	8	0	0	46 070	0.00	0.02	714	4.8	777	318	0	0
Lighting	63	63					3,211	1.6	2.9	14,877	-	-	-	-	-
CFL (5W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (7W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (9W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (11W)	7	7					387	0.12	0.23	1,179	-	-	-	-	-
CFL (13W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (14W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (15W)	56	56					2,793	1.42	2.62	13,504	-	-	-	-	-
CFL (18W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (20W)	1	1					10	0.01	0.02	81	-	-	-	-	-
CFL (23W)	1	1					21	0.01	0.02	113	-	-	-	-	-
CFL (25W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL (30W)	0	0					0	0.00	0.00	0	-	-	-	-	-
CFL unknown	0	0					0	0.00	0.00	0	-	-	-	-	-
Refrigerator/Freezer	21	21					18 779	1.06	0.99	8 584	-	-	-	-	-
Refrigerator Removal	0	0					0	0.00	0.00	0	-	-	-	-	-
Refrigerator Exchange	17	17					15,803	0.84	0.79	6,861	-	-	-	-	-
Freezer Removal	0	0					0	0.00	0.00	0	-	-	-	-	-
Freezer Exchange	4	4					2,976	0.21	0.20	1,722	-	-	-	-	-

Average Estimated First Year Measure Cost and Savings Average per Treated Household

Measure	Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**4982.42**	**0.211**		**0.304**		**832**	**2.640**	**244**	**237**		**16**
Shell & Htg. Sys.	4177.15	0.187	225	0.780	1,150	539	2.514	221	214	-	16
Wall Insul.	1218.70	0.117	141	0.760	1,121	334	0.927	82	67	-	10
Open Blown Ceiling Insul.	765.28	0.086	104	0.355	523	231	0.502	44	59	-	16
Cavity Fil Insul.	700.50	0.056	67	0.251	371	104	0.522	46	15	-	-
Sloped Attic Insul.	428.55	0.055	66	0.348	513	135	0.470	41	54	-	-
Kneewall Insul.	1004.67	0.004	5	-	-	5	0.056	5	6	-	-
Infil. Reduction	547.48	0.012	15	0.132	194	68	0.240	21	16	-	2
Found./Crawl. Insul.	394.72	0.052	63	0.117	173	99	0.122	11	25	-	1
Bandjoist Insul.	156.93	-	-	0.053	79	79	0.052	5	6	-	1
Exhaust Ventilation	860.86	-	-	-0.090	(133)	(133)	-0.068	-6	-7	-	-
Condensing Htg Sys Repl	3582.50	-	-	-	-	-	1.330	117	153	-	-
Non-Cond Htg Sys Repl	3593.25	-	-	-	-	-	0.556	49	60	-	-
Electric Htg Sys Repl	1957.00	-	-	0.055	81	81	-	-	-	-	-
Heat Pump Repl	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0.00	-	-	-	-	-	-	-	-	-	-

Measure	Spending on Materials & Labor ($)	Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	653.09	0.000	0.002	132	0.182	33	39	-	-
Temp. Reduct.	0.00	0.000	0.000	94	0.024	8	9	-	-
WH Wrap	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	5.85	0.000	0.000	35	0.010	3	4	-	-
LF Showerhead	9.81	0.000	0.003	141	0.027	8	9	-	-
Faucet Aerator	5.87	0.000	0.001	53	0.010	3	4	-	-
Std-Eff Wtr Htr Repl.	1228.00	-	-	-	0.152	25	29	-	-
Hi-Eff Wtr Htr Repl.	1396.06	0.000	0.003	102	0.265	43	40	-	-
Lighting	50.97	0.025	0.046	236	-	-	-	-	-
CFL (5W)	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0.00	-	-	-	-	-	-	-	-
CFL (11W)	55.29	0.018	0.033	168	-	-	-	-	-
CFL (13W)	0.00	-	-	-	-	-	-	-	-
CFL (14W)	0.00	-	-	-	-	-	-	-	-
CFL (15W)	49.88	0.025	0.047	241	-	-	-	-	-
CFL (18W)	0.00	-	-	-	-	-	-	-	-
CFL (20W)	10.00	0.008	0.016	81	-	-	-	-	-
CFL (23W)	21.00	0.012	0.022	113	-	-	-	-	-
CFL (25W)	0.00	-	-	-	-	-	-	-	-
CFL (30W)	0.00	-	-	-	-	-	-	-	-
CFL unknown	0.00	-	-	-	-	-	-	-	-
Refrigerator/Freezer	894.24	0.050	0.047	409					
Refrigerator Removal	0.00	-	-	-	-	-	-	-	-
Refrigerator Exchange	929.59	0.050	0.046	404	-	-	-	-	-
Freezer Removal	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	744.00	0.053	0.050	431	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 93 Total Households with Spending and/or Energy Impacts:

Total		**565,042**	**6075.72**
Unspecified Insul.	85	33,397	392.90
Duct Sealing	12	2,135	177.92
Duct Insulation	50	6,066	121.32
Damming Material	71	3,149	44.35
Htg. Sys. Tune & Clean	36	12,540	348.33
Htg. Sys./WH Other	43	51,854	1205.91
Air Conditioning Work	5	3,675	735.00
Water Heater Repair	3	2,010	670.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	36	1,300	36.11
Smoke Detector	31	593	19.11
Fuses	0	0	0.00
Htg Sys Safety Check	4	930	232.50
Htg Sys Ventilation	44	13,831	314.34
Water Heater Ventilation	23	4,696	204.17
Bathroom Ventilation	49	7,099	144.88
Dryer Exhaust Ventilation	64	5,842	91.28
Other Exhaust Ventilation	72	24,339	338.04
Health/Safety Repairs	32	9,751	304.72
Health/Safety Other	13	945	72.69
Consumables	0	0	0.00
General Repairs	89	104 277	1171.66
Meter Refrig (no action)	77	0	0.00
Meter Freezer (no action)	42	0	0.00
Support	93	264,919	2848.59
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	77	11,525	149.68
Unspecifed	3	170	56.67
Total Reported Materials, Labor, and Support Costs:		**1,028,407**	**11,058.14**
Grand Total of Expenditures:		**1,028,407**	

Upper Des Moines Opportunity
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**134**	**134**	**113**	**13**	**0**	**0**	**134**	**130**	**750,370**	**23.8**		**16.9**		**75,667**	**275**	**27,960**	**5,720**	**0**	**0**	**5599.78**	**0.178**		**0.130**		**565**	**2.437**	**247**	**440**		
Shell & Htg. Sys.	134	122	113	13	0	0	122	8	658,488	20.8	25,117	12.5	20,337	45,454	262	25,488	5,554	0	0	4914.09	0.171	206	1.558	2,542	373	2.317	226	427	-	-
Wall Insul.	98	90	82	13	0	0	90	3	150,046	8.27	9,976	2.60	4,242	14,217	71	6,911	1,553	0	0	1531.08	0.092	111	0.867	1,414	158	0.866	84	119	-	-
Open Blown Ceiling Insul.	128	118	108	12	0	0	118	8	94,519	7.96	9,605	7.11	11,594	21,199	49	4,780	884	0	0	738.43	0.067	81	0.888	1,449	180	0.455	44	74	-	-
Cavity Fil Insul.	56	46	42	10	0	0	46	4	48,891	1.54	1,854	1.63	2,658	4,513	23	2,273	867	0	0	873.05	0.033	40	0.407	665	98	0.556	54	87	-	-
Sloped Attic Insul.	36	30	31	3	0	0	30	2	15,028	0.92	1,115	0.64	1,038	2,153	16	1,566	131	0	0	417.44	0.031	37	0.318	519	72	0.519	51	44	-	-
Kneewall Insul.	32	25	26	5	0	0	25	1	8,387	0.36	439	0.14	235	674	6	611	79	0	0	262.09	0.015	18	0.144	235	27	0.242	24	16	-	-
Infil. Reduction	125	113	107	13	0	0	113	5	53,362	1.25	1,513	0.37	605	2,118	13	1,287	196	0	0	426.90	0.011	13	0.074	121	19	0.124	12	15	-	-
Found./Crawl. Insul.	54	13	46	7	0	0	13	1	23,765	0.51	616	0.12	188	804	6	553	114	0	0	440.08	0.039	47	0.115	188	62	0.124	12	16	-	-
Bandjoist Insul.	76	2	68	6	0	0	-	2	6,964	0.00	0	0.13	209	209	3	320	55	0	0	91.63	-	-	0.064	105	105	0.048	5	9	-	-
Exhaust Ventilation	27	6	18	3	0	0	-	6	27,249	0.00	0	-0.49	(798)	(798)	(1)	(117)	(21)	0	0	1009.22	-	-	-0.082	(133)	(133)	-0.067	-7	-7	-	-
Condensing Htg Sys Repl	70	0	63	7	0	0	-	-	188,326	0.00	0	0.00	0	0	73	7,142	1,434	0	0	2690.36	-	-	-	-	-	1.164	113	205	-	-
Non-Cond Htg Sys Repl	4	0	2	2	0	0	-	-	19,102	0.00	0	0.00	0	0	2	162	263	0	0	4775.40	-	-	-	-	-	0.831	81	132	-	-
Electric Htg Sys Repl	4	4	0	0	0	0	-	4	22,850	0.00	0	0.22	365	365	0	0	0	0	0	5712.50	-	-	0.056	91	91	-	-	-	-	-
Heat Pump Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	131	41	87	3	0	0	231	64	159	8	0	0	65,064	0.0	0.0	3,628	13.5	2,471	166	0	0	496.67	0.000	0.001	88	0.156	28	55	-	-
Temp. Reduct.	34	13	19	2	0	0	34	13	19	2	0	0	0	0.00	0.00	1,215	0.5	174	20	0	0	0.00	0.000	0.000	93	0.026	9	10	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	131	41	87	3	0	0	131	41	87	3	0	0	786	0.00	0.00	1,378	0.9	318	12	0	0	6.00	0.000	0.000	34	0.011	4	4	-	-
LF Showerhead	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Faucet Aerator	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Std-Eff Wtr Htr Repl.	1	0	1	0	0	0	1	0	1	0	0	0	1,280	0.00	0.00	0	0.1	22	0	0	0	1280.00	-	-	-	0.136	22	-	-	-
Hi-Eff Wtr Htr Repl.	65	10	52	3	0	0	65	10	52	3	0	0	62 998	0.00	0.03	1 035	12.0	1 957	134	0	0	969.20	0.000	0.003	103	0.231	38	45	-	-
Lighting	128	128					1,239	1,239					8,673	1.8	3.3	17,086	-	-	-	-	-	67.76	0.014	0.026	133	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	110	110					1,033	1,033					7,231	1.37	2.52	13,013	-	-	-	-	-	65.74	0.012	0.023	118	-	-	-	-	-
CFL (13W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (14W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (15W)	34	34					206	206					1,442	0.43	0.79	4,073	-	-	-	-	-	42.41	0.013	0.023	120	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (23W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (25W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator/Freezer	23	23					24	24					18 145	1.17	1.09	9 498	-	-	-	-	-	788.91	0.051	0.047	413					
Refrigerator Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator Exchange	22	22					22	22					17,286	1.07	1.00	8,664	-	-	-	-	-	785.75	0.048	0.045	394	-	-	-	-	-
Freezer Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	2	2					2	2					858	0.10	0.10	834	-	-	-	-	-	429.19	0.051	0.048	417	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 134 Total Households with Spending and/or Energy Impacts:

Total		**584,537**	**4362.22**
Unspecified Insul.	123	20,548	167.06
Duct Sealing	6	700	116.67
Duct Insulation	37	1,097	29.65
Damming Material	79	2,186	27.67
Htg. Sys. Tune & Clean	73	12,331	168.92
Htg. Sys./WH Other	31	10,459	337.38
Air Conditioning Work	7	1,920	274.29
Water Heater Repair	8	690	86.25
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	134	8,833	65.91
Smoke Detector	134	7,664	57.19
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	62	17,564	283.29
Water Heater Ventilation	49	13,413	273.73
Bathroom Ventilation	50	4,460	89.19
Dryer Exhaust Ventilation	56	4,444	79.36
Other Exhaust Ventilation	93	45,166	485.65
Health/Safety Repairs	32	1,681	52.52
Health/Safety Other	7	279	39.86
Consumables	0	0	0.00
General Repairs	82	21 909	267.18
Meter Refrig (no action)	113	0	0.00
Meter Freezer (no action)	36	0	0.00
Support	134	377,649	2818.28
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	104	31,547	303.34
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**1,334,907**	**9,962.00**
Grand Total of Expenditures:		**1,334,907**	

West Central Development Corporation
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**99**	**97**	**75**	**10**	**1**	**0**	**97**	**89**	**498,278**	**24.5**		**19.4**		**73,326**	**164**	**15,489**	**2,649**	**450**	**0**	**5033.11**	**0.253**		**0.218**		**756**	**2.190**	**207**	**265**	**450**	
Shell & Htg. Sys.	97	92	73	10	1	0	91	13	425,061	22.5	27,097	16.0	23,154	50,251	152	13,101	2,417	450	0	4382.07	0.247	298	1.233	1,781	546	2.083	179	242	450	-
Wall Insul.	61	58	48	7	1	0	57	5	68,179	8.30	10,005	3.05	4,410	14,415	37	3,226	519	78	0	1117.69	0.146	176	0.611	882	249	0.780	67	74	78	-
Open Blown Ceiling Insul.	88	84	67	9	1	0	83	11	60,757	8.15	9,829	5.44	7,854	17,683	22	1,878	572	61	0	690.42	0.098	118	0.494	714	211	0.325	28	64	61	-
Cavity Fil Insul.	14	13	7	3	1	0	12	3	9,149	0.59	717	1.65	2,386	3,103	4	304	99	20	0	653.50	0.050	60	0.551	795	239	0.503	43	33	20	-
Sloped Attic Insul.	42	39	29	5	1	0	37	7	20,651	2.82	3,403	2.82	4,070	7,473	16	1,345	208	19	0	491.69	0.076	92	0.403	581	192	0.538	46	42	19	-
Kneewall Insul.	28	25	20	3	1	0	24	4	5,332	0.46	557	0.45	646	1,203	3	265	52	34	0	190.43	0.019	23	0.112	161	48	0.154	13	17	34	-
Infil. Reduction	96	92	72	10	1	0	91	13	45,427	1.65	1,994	1.31	1,885	3,879	12	1,006	102	14	0	473.19	0.018	22	0.100	145	42	0.162	14	10	14	-
Found./Crawl. Insul.	40	15	28	3	1	0	8	8	10,042	0.49	593	0.88	1,270	1,863	3	219	20	2	0	251.06	0.061	74	0.110	159	124	0.091	8	7	2	-
Bandjoist Insul.	41	3	34	3	1	0	-	3	2,965	0.00	0	0.17	244	244	2	133	6	5	0	72.31	-	-	0.056	81	81	0.046	4	2	5	-
Exhaust Ventilation	31	3	26	2	0	0	-	3	14,101	0.00	0	-0.28	(399)	(399)	(2)	(188)	(14)	0	0	454.89	-	-	-0.092	(133)	(133)	-0.084	-7	-7	-	-
Condensing Htg Sys Repl	42	0	37	4	1	0	-	-	166,049	0.00	0	0.00	0	0	56	4,851	768	216	0	3953.54	-	-	-	-	-	1.521	131	192	216	-
Non-Cond Htg Sys Repl	2	0	1	1	0	0	-	-	7,890	0.00	0	0.00	0	0	1	62	87	0	0	3945.02	-	-	-	-	-	0.719	62	87	-	-
Electric Htg Sys Repl	5	5	0	0	0	0	-	5	10,919	0.00	0	0.42	601	601	0	0	0	0	0	2183.84	-	-	0.083	120	120	-	-	-	-	-
Heat Pump Repl	1	1	0	0	0	0	-	1	3,600	0.00	0	0.13	187	187	0	0	0	0	0	3600.00	-	-	0.129	187	187	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	99	25	67	7	0	0	307	73	212	22	0	0	56,563	0.0	0.1	4,390	12.3	2,388	231	0	0	571.34	0.000	0.003	176	0.183	36	33	-	-
Temp. Reduct.	26	7	19	0	0	0	26	7	19	0	0	0	0	0.00	0.00	652	0.6	196	0	0	0	0.00	0.000	0.000	93	0.030	10	-	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	77	21	50	6	0	0	77	21	50	6	0	0	426	0.00	0.00	735	0.6	200	26	0	0	5.53	0.000	0.000	35	0.012	4	4	-	-
LF Showerhead	35	10	24	1	0	0	38	11	26	1	0	0	380	0.00	0.03	1,462	0.7	229	10	0	0	10.86	0.000	0.003	146	0.031	10	10	-	-
Faucet Aerator	78	17	54	7	0	0	117	26	81	10	0	0	352	0.00	0.02	690	0.5	152	20	0	0	4.51	0.000	0.001	41	0.009	3	3	-	-
Std-Eff Wtr Htr Repl.	7	0	4	3	0	0	7	0	4	3	0	0	7,165	0.00	0.00	0	0.6	103	85	0	0	1023.57	-	-	-	0.158	26	28	-	-
Hi-Eff Wtr Htr Repl.	42	8	32	2	0	0	42	8	32	2	0	0	48 240	0.00	0.02	851	9.2	1 507	90	0	0	1148.57	0.000	0.003	106	0.289	47	45	-	-
Lighting	85	85					1,022	1,022					7,394	1.5	2.8	14,277	-	-	-	-	-	86.99	0.018	0.033	168	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	3	3					16	16					112	0.02	0.04	215	-	-	-	-	-	37.33	0.008	0.014	72	-	-	-	-	-
CFL (11W)	58	58					411	411					2,848	0.55	1.02	5,278	-	-	-	-	-	49.10	0.010	0.018	91	-	-	-	-	-
CFL (13W)	70	70					488	488					3,366	0.61	1.13	5,802	-	-	-	-	-	48.09	0.009	0.016	83	-	-	-	-	-
CFL (14W)	1	1					5	5					34	0.01	0.02	100	-	-	-	-	-	34.10	0.010	0.019	100	-	-	-	-	-
CFL (15W)	1	1					4	4					28	0.01	0.02	78	-	-	-	-	-	28.00	0.008	0.015	78	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	27	27					52	52					364	0.13	0.24	1,248	-	-	-	-	-	13.48	0.005	0.009	46	-	-	-	-	-
CFL (23W)	5	5					6	6					42	0.02	0.04	209	-	-	-	-	-	8.40	0.004	0.008	42	-	-	-	-	-
CFL (25W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	27	27					40	40					600	0.14	0.26	1 347	-	-	-	-	-	22.22	0.005	0.010	50	-	-	-	-	-
Refrigerator/Freezer	10	10					11	11					9 260	0.54	0.51	4 408	-	-	-	-	-	925.99	0.054	0.051	441					
Refrigerator Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator Exchange	7	7					7	7					6,911	0.34	0.32	2,740	-	-	-	-	-	987.28	0.048	0.045	391	-	-	-	-	-
Freezer Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	4	4					4	4					2,349	0.21	0.19	1,668	-	-	-	-	-	587.24	0.051	0.048	417	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 99 Total Households with Spending and/or Energy Impacts:

Total		**451,974**	**4565.40**
Unspecified Insul.	96	18,563	193.37
Duct Sealing	27	3,048	112.90
Duct Insulation	75	3,237	43.16
Damming Material	62	2,358	38.04
Htg. Sys. Tune & Clean	46	9,173	199.41
Htg. Sys./WH Other	38	19,833	521.93
Air Conditioning Work	3	725	241.67
Water Heater Repair	6	626	104.35
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	38	1,053	27.70
Smoke Detector	23	1,655	71.97
Fuses	0	0	0.00
Htg Sys Safety Check	3	460	153.32
Htg Sys Ventilation	44	15,848	360.17
Water Heater Ventilation	41	9,188	224.11
Bathroom Ventilation	83	7,419	89.39
Dryer Exhaust Ventilation	50	2,878	57.55
Other Exhaust Ventilation	83	36,348	437.93
Health/Safety Repairs	51	7,212	141.41
Health/Safety Other	48	1 356	28.24
Consumables	0	0	0.00
General Repairs	96	52 303	544.83
Meter Refrig (no action)	89	0	0.00
Meter Freezer (no action)	46	0	0.00
Support	94	228,820	2434.26
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	68	29,870	439.26
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**950,252**	**9,598.50**
Grand Total of Expenditures:		**950,252**	

Community Action Agency of Siouxland
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**89**	**88**	**70**	**8**	**1**	**0**	**88**	**85**	**443,717**	**18.5**		**19.5**		**85,198**	**187**	**18,046**	**2,115**	**108**	**0**	**4985.59**	**0.210**		**0.230**		**968**	**2.672**	**258**	**264**	**108**	
Shell & Htg. Sys.	89	81	70	8	1	0	80	10	373,138	13.5	16,283	11.9	18,254	34,537	178	16,269	2,057	108	0	4192.56	0.169	204	1.194	1,825	426	2.547	232	257	108	-
Wall Insul.	43	37	35	6	0	0	37	2	41,159	4.12	4,966	0.92	1,404	6,369	29	2,607	529	0	0	957.19	0.111	134	0.459	702	172	0.817	74	88	-	-
Open Blown Ceiling Insul.	81	73	63	8	1	0	72	9	73,237	6.99	8,429	5.77	8,826	17,255	44	3,982	538	20	0	904.15	0.097	117	0.641	981	236	0.693	63	67	20	-
Cavity Fil Insul.	16	11	12	2	0	0	10	2	8,179	0.55	663	1.39	2,122	2,784	10	954	91	0	0	511.19	0.055	66	0.694	1,061	253	0.871	79	45	-	-
Sloped Attic Insul.	16	13	11	2	0	0	13	3	3,727	0.48	582	1.27	1,937	2,519	9	778	52	0	0	232.94	0.037	45	0.422	646	194	0.775	71	26	-	-
Kneewall Insul.	10	10	6	1	0	0	10	3	2,534	0.24	286	1.09	1,666	1,952	2	206	15	0	0	253.40	0.024	29	0.363	555	195	0.377	34	15	-	-
Infil. Reduction	74	66	59	7	1	0	66	7	15,298	0.82	993	0.51	777	1,770	12	1,058	131	25	0	206.73	0.012	15	0.073	111	27	0.196	18	19	25	-
Found./Crawl. Insul.	22	7	17	2	0	0	6	3	14,161	0.30	364	0.84	1,289	1,653	5	445	10	0	0	643.66	0.050	61	0.281	430	236	0.287	26	5	-	-
Bandjoist Insul.	1	0	0	1	0	0	-	0	96	0.00	0	0.00	0	0	0	0	4	0	0	96.00	-	-	-	-	-	-	-	4	-	-
Exhaust Ventilation	27	1	22	4	0	0	-	1	27,624	0.00	0	-0.09	(133)	(133)	(2)	(151)	(29)	0	0	1023.11	-	-	-0.087	(133)	(133)	-0.075	-7	-7	-	-
Condensing Htg Sys Repl	47	0	42	5	0	0	-	-	133,948	0.00	0	0.00	0	0	65	5,890	716	0	0	2849.96	-	-	-	-	-	1.537	140	143	-	-
Non-Cond Htg Sys Repl	3	0	3	0	0	0	-	-	19,565	0.00	0	0.00	0	0	5	500	0	0	0	6521.67	-	-	-	-	-	1.828	167	-	-	-
Electric Htg Sys Repl	2	2	0	0	0	0	-	2	12,606	0.00	0	0.12	182	182	0	0	0	0	0	6303.00	-	-	0.059	91	91	-	-	-	-	-
Heat Pump Repl	4	3	0	0	1	0	-	3	21,005	0.00	0	0.12	185	185	0	0	0	63	0	5251.25	-	-	0.040	62	46	-	-	-	63	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	88	31	55	2	0	0	0	0	0	0	0	0	40,027	0.0	0.1	6,046	8.7	1,777	58	0	0	454.85	0.000	0.004	195	0.158	32	29	-	-
Temp. Reduct.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	82	30	50	2	0	0	0	0	0	0	0	0	480	0.00	0.00	1,059	0.5	190	8	0	0	5.85	0.000	0.000	35	0.011	4	4	-	-
LF Showerhead	71	22	47	2	0	0	0	0	0	0	0	0	720	0.00	0.07	3,220	1.4	434	20	0	0	10.14	0.000	0.003	146	0.030	9	10	-	-
Faucet Aerator	52	16	34	2	0	0	0	0	0	0	0	0	300	0.00	0.02	831	0.4	120	8	0	0	5.77	0.000	0.001	52	0.012	4	4	-	-
Std-Eff Wtr Htr Repl.	5	1	3	1	0	0	0	0	0	0	0	0	5,748	0.00	0.00	26	0.5	81	22	0	0	1149.60	0.000	0.001	26	0.165	27	22	-	-
Hi-Eff Wtr Htr Repl.	29	9	20	0	0	0	0	0	0	0	0	0	32 779	0.00	0.02	911	5.8	953	0	0	0	1130.31	0.000	0.002	101	0.292	48	-	-	-
Lighting	82	82					0	0					7,375	3.1	5.8	29,849	-	-	-	-	-	89.94	0.038	0.071	364	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (13W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (14W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (15W)	46	46					0	0					1,700	0.51	0.94	4,826	-	-	-	-	-	36.96	0.011	0.020	105	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	32	32					0	0					994	0.36	0.67	3,457	-	-	-	-	-	31.06	0.011	0.021	108	-	-	-	-	-
CFL (23W)	75	75					0	0					4,276	2.17	4.01	20,656	-	-	-	-	-	57.01	0.029	0.053	275	-	-	-	-	-
CFL (25W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	17	17					0	0					405	0.10	0.18	909	-	-	-	-	-	23.82	0.006	0.010	53	-	-	-	-	-
Refrigerator/Freezer	34	34					0	0					23 177	1.82	1.70	14 766	-	-	-	-	-	681.68	0.053	0.050	434					
Refrigerator Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator Exchange	30	30					0	0					19,419	1.46	1.36	11,848	-	-	-	-	-	647.30	0.049	0.045	395	-	-	-	-	-
Freezer Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	6	6					0	0					3,758	0.36	0.34	2,918	-	-	-	-	-	626.33	0.060	0.056	486	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 89 Total Households with Spending and/or Energy Impacts:

Total		**353,364**	**3970.38**
Unspecified Insul.	78	27,115	347.63
Duct Sealing	14	2,825	201.75
Duct Insulation	2	90	45.00
Damming Material	19	1,090	57.37
Htg. Sys. Tune & Clean	14	3,000	214.29
Htg. Sys./WH Other	38	12,071	317.65
Air Conditioning Work	2	954	477.00
Water Heater Repair	20	1,343	67.15
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	38	2,342	61.63
Smoke Detector	68	5,758	84.68
Fuses	0	0	0.00
Htg Sys Safety Check	1	100	100.00
Htg Sys Ventilation	15	3,510	234.00
Water Heater Ventilation	21	7,105	338.33
Bathroom Ventilation	8	3,009	376.13
Dryer Exhaust Ventilation	46	5,898	128.22
Other Exhaust Ventilation	36	23,262	646.17
Health/Safety Repairs	38	4,233	111.39
Health/Safety Other	16	3 355	209.69
Consumables	0	0	0.00
General Repairs	72	27 843	386.71
Meter Refrig (no action)	60	0	0.00
Meter Freezer (no action)	31	0	0.00
Support	88	217,256	2468.82
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	8	1,206	150.75
Total Reported Materials, Labor, and Support Costs:		**797,081**	**8,955.97**
Grand Total of Expenditures:		**797,081**	

Polk County Development Services
Calendar Year 2013
Costs, Fuel, and Demand Impacts for All Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Propane	Fuel Oil	Other	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Average Estimated First Year Measure Cost and Savings, Average per Treated Household: Spending on Materials & Labor ($)	Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
OVERALL (Energy Mea)	**219**	**219**	**213**	**2**	**1**	**0**	**219**	**212**	**1,185,189**	**46.2**		**20.1**		**141,700**	**525**	**48,965**	**409**	**120**	**0**	**5411.82**	**0.211**		**0.095**		**647**	**2.464**	**230**	**204**	**120**	
Shell & Htg. Sys.	219	200	213	2	1	0	200	3	987,121	36.7	44,241	5.6	8,543	52,785	501	44,626	340	120	0	4507.40	0.183	221	1.865	2,848	264	2.354	210	170	120	-
Wall Insul.	135	119	132	0	1	0	119	2	167,716	14.11	17,019	0.27	394	17,413	95	8,438	0	34	0	1242.34	0.119	143	0.134	197	146	0.721	64	-	34	-
Open Blown Ceiling Insul.	175	159	171	0	1	0	159	3	159,730	15.14	18,256	4.38	6,714	24,970	136	12,093	0	72	0	912.74	0.095	115	1.461	2,238	157	0.794	71	-	72	-
Cavity Fil Insul.	26	21	25	0	0	0	21	1	12,914	0.78	943	0.29	420	1,364	13	1,124	0	0	0	496.69	0.037	45	0.286	420	65	0.510	45	-	-	-
Sloped Attic Insul.	41	34	41	0	0	0	34	0	17,258	1.22	1,473	0.00	0	1,473	14	1,250	0	0	0	420.93	0.036	43	-	-	43	0.346	30	-	-	-
Kneewall Insul.	60	56	59	0	0	0	56	1	17,900	1.27	1,536	0.21	334	1,869	15	1,322	0	0	0	298.33	0.023	27	0.214	334	33	0.251	22	-	-	-
Infil. Reduction	219	200	213	2	1	0	200	3	132,478	2.73	3,288	0.28	425	3,714	42	3,772	61	3	0	604.92	0.014	16	0.093	142	19	0.198	18	30	3	-
Found./Crawl. Insul.	99	29	95	2	1	0	29	1	86,979	1.43	1,727	0.16	256	1,983	29	2,619	129	12	0	878.58	0.049	60	0.164	256	68	0.306	28	65	12	-
Bandjoist Insul.	9	0	9	0	0	0	-	0	740	0.00	0	0.00	0	0	0	27	0	0	0	82.22	-	-	-	-	-	0.034	3	-	-	-
Exhaust Ventilation	51	0	50	1	0	0	-	0	46,650	0.00	0	0.00	0	0	(3)	(239)	(7)	0	0	914.71	-	-	-	-	-	-0.054	-5	-7	-	-
Condensing Htg Sys Repl	135	0	135	0	0	0	-	-	272,304	0.00	0	0.00	0	0	135	12,011	0	0	0	2017.07	-	-	-	-	-	1.003	89	-	-	-
Non-Cond Htg Sys Repl	35	0	33	2	0	0	-	-	72,452	0.00	0	0.00	0	0	25	2,208	157	0	0	2070.05	-	-	-	-	-	0.743	67	78	-	-
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-

	Number of Measures by Fuel Type: Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
Water Heating	213	25	187	1	0	0	575	57	513	5	0	0	143,423	0.0	0.1	2,903	23.4	4,339	68	0	0	673.35	0.000	0.002	116	0.125	23	68	-	-
Temp. Reduct.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	206	25	180	1	0	0	206	25	180	1	0	0	1,225	0.00	0.00	832	1.4	496	4	0	0	5.95	0.000	0.000	33	0.008	3	4	-	-
LF Showerhead	59	6	52	1	0	0	60	6	53	1	0	0	600	0.00	0.02	821	1.1	350	9	0	0	10.17	0.000	0.003	137	0.022	7	9	-	-
Faucet Aerator	96	9	86	1	0	0	179	17	160	2	0	0	537	0.00	0.01	441	0.7	209	4	0	0	5.59	0.000	0.001	49	0.008	2	4	-	-
Std-Eff Wtr Htr Repl.	48	1	47	0	0	0	48	1	47	0	0	0	44,670	0.00	0.00	23	5.9	967	0	0	0	930.63	0.000	0.001	23	0.126	21	-	-	-
Hi-Eff Wtr Htr Repl.	82	8	73	1	0	0	82	8	73	1	0	0	96 391	0.00	0.02	786	14.2	2 318	52	0	0	1175.50	0.000	0.002	98	0.195	32	52	-	-
Lighting	207	207					2,395	2,395					16,765	6.0	11.1	57,152	-	-	-	-	-	80.99	0.029	0.054	276	-	-	-	-	-
CFL (5W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (7W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (13W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (14W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (15W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (18W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (20W)	207	207					2,395	2,395					16,765	6.00	11.09	57,152	-	-	-	-	-	80.99	0.029	0.054	276	-	-	-	-	-
CFL (23W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (25W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (30W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL unknown	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator/Freezer	67	67					73	73					37 880	3.55	3.32	28 860	-	-	-	-	-	565.37	0.053	0.050	431					
Refrigerator Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Refrigerator Exchange	62	62					64	64					35,163	3.09	2.89	25,107	-	-	-	-	-	567.15	0.050	0.047	405	-	-	-	-	-
Freezer Removal	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Freezer Exchange	9	9					9	9					2,717	0.46	0.43	3,752	-	-	-	-	-	301.89	0.051	0.048	417	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 219 Total Households with Spending and/or Energy Impacts:

Total		**922,566**	**4212.63**
Unspecified Insul.	193	45,752	237.05
Duct Sealing	60	10,500	175.00
Duct Insulation	177	11,700	66.10
Damming Material	94	5,770	61.38
Htg. Sys. Tune & Clean	34	6,787	199.63
Htg. Sys./WH Other	11	4,600	418.19
Air Conditioning Work	1	150	150.00
Water Heater Repair	2	745	372.50
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	9	884	98.22
Unspecified Utility Meas.	0	0	0.00
CO Detector	208	8,360	40.19
Smoke Detector	126	4,110	32.62
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	121	16,992	140.43
Water Heater Ventilation	43	4,715	109.66
Bathroom Ventilation	198	31,355	158.36
Dryer Exhaust Ventilation	163	16,454	100.94
Other Exhaust Ventilation	144	80,550	559.38
Health/Safety Repairs	136	21,117	155.27
Health/Safety Other	44	4 203	95.52
Consumables	0	0	0.00
General Repairs	216	158 171	732.27
Meter Refrig (no action)	131	0	0.00
Meter Freezer (no action)	38	0	0.00
Support	181	489,650	2705.25
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**2,107,754**	**9,624.45**
Grand Total of Expenditures:		**2,107,754**	

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5. DETAILED SPENDING AND IMPACT PROFILES BY AGENCY FOR UTILITY EXPENDITURES

This section provides tables of spending and impacts by agency for utility expenditures.

New Opportunities
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by Season: Cooling	Heating	Estimated First-Year Savings: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms
OVERALL (Energy Mea)	**49**	**43**	**33**	**43**	**42**	**155,668**	**9.8**		**10.0**		**33,832**	**94**	**8,841**	**3176.91**	**0.229**		**0.237**		**787**	**2.844**	**268**
Shell & Htg. Sys.	49	43	33	42	38	134,838	8.7	10,489	7.9	12,099	22,588	90	8,217	2751.79	0.207	250	0.208	318	525	2.729	249
Wall Insul.	40	34	25	33	5	40,897	3.63	4,374	2.98	4,558	8,932	27	2,438	1022.42	0.110	133	0.596	912	263	1.069	98
Open Blown Ceiing Insul.	48	42	32	41	5	24,034	2.54	3,065	1.50	2,286	5,351	12	1,076	500.70	0.062	75	0.299	457	127	0.368	34
Cavity Fill Insul.	18	16	12	16	3	6,989	0.93	1,122	1.78	2,717	3,838	4	399	388.26	0.058	70	0.592	906	240	0.365	33
Sloped Attic Insul.	24	19	17	19	3	7,402	0.91	1,099	0.96	1,473	2,571	8	719	308.41	0.048	58	0.321	491	135	0.464	42
Kneewall Insul.	14	12	10	12	2	3,198	0.16	188	0.19	296	484	1	102	228.42	0.013	16	0.097	148	40	0.112	10
Infl. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	21	12	17	11	2	7,882	0.53	641	0.46	710	1,351	4	334	375.32	0.048	58	0.232	355	113	0.216	20
Bandjoist Insul.	18	2	16	-	2	1,345	0.00	0	0.04	60	60	1	57	74.72	-	-	0.020	30	30	0.039	4
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	21	0	21	-	-	43,092	0.00	0	0.00	0	0	34	3,091	2052.01	-	-	-	-	-	1.613	147
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
	Total	**Electric**	**Gas**	**Number of Measures by Fuel Type: Total**	**Electric**	**Gas**		**Summer kW**		**Winter kW**	**Annual kWh**	**Pk Day therms**	**Annual therms**		**Summer kW**		**Winter kW**		**Annual kWh**	**Pk Day therms**	**Annual therms**
Water Heating	22	6	16	22	6	16	18,450	0.0		0.0	415	3.8	624	838.64	0.000		0.001		69	0.237	39
Temp. Reduct.	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
WH Wrap	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Pipe Insul.	6	3	3	6	3	3	36	0.00		0.00	107	0.0	12	6.00	0.000		0.000		36	0.012	4
LF Showerhead	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Faucet Aerator	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Hi-Eff Wtr Htr Repl.	17	3	14	16	3	13	18 414	0.00		0.01	308	3.8	612	1083.18	0.000		0.003		103	0.268	44
Lighting	41	41		295	295		641	1.0		1.9	9,994	-	-	15.62	0.026		0.047		244	-	-
CFL (5W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (7W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (9W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (11W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (13W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (14W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (15W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (18W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (20W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (23W)	41	41		285	285		576	1.01		1.87	9,656	-	-	14.04	0.025		0.046		236	-	-
CFL (25W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (30W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL unknown	8	8		10	10		65	0.04		0.07	338	-	-	8.13	0.004		0.008		42	-	-
Refrigerator/Freezer	3	3		2	2		1 740	0.10		0.10	836	-	-	580.05	0.034		0.032		279		
Refrigerator Removal	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
Refrigerator Exchange	3	3		2	2		1,740	0.10		0.10	836	-	-	580.05	0.034		0.032		279	-	-
Freezer Removal	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
Freezer Exchange	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-

Costs for Measures Without Energy Impacts Installed in 49 Total Households with Spending and/or Energy Impacts:

Total		**23,986**	**489.50**
Unspecified Insul.	0	0	0.00
Duct Sealing	0	0	0.00
Duct Insulation	0	0	0.00
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	6	725	120.83
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	19	2,507	131.92
Water Heater Ventilation	14	1,844	131.71
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Ventlation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action)	0	0	0.00
Support	48	18,910	393.96
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**179,654**	**3,666.41**
Grand Total of Expenditures:		**179,654**	

Hawkeye Area Community Action Program
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by Season		Estimated First-Year Savings								Average Estimated First Year Measure Cost and Savings Average per Treated Household						
						Spending on Materials & Labor ($)	Electricity					Gas		Spending on Materials & Labor ($)	Electricity				Gas	
	Total	Electric	Gas	Cooling	Heating		Summer kW	kWh	Winter kW	kWh	Annual kWh	Pk Day therms	Annual therms		Summer kW	kWh	Winter kW	kWh	Annual kWh	Pk Day therms	Annual therms
OVERALL (Energy Mea)	**163**	**143**	**122**	**143**	**138**	**481,003**	**16.4**		**7.7**		**55,313**	**219**	**21,147**	**2950.94**	**0.115**		**0.056**		**387**	**1.797**	**173**
Shell & Htg. Sys.	144	88	117	86	119	385,585	12.3	14,861	1.4	2,209	17,069	206	18,973	2677.67	0.143	173	0.012	19	194	1.764	162
Wall Insul.	82	62	66	61	1	120,116	5.48	6,614	0.49	754	7,368	48	4,398	1464.84	0.090	108	0.489	754	119	0.725	67
Open Blown Ceiing Insul.	94	71	75	70	1	56,563	5.12	6,178	0.93	1,431	7,609	57	5,225	601.73	0.073	88	0.929	1,431	107	0.758	70
Cavity Fill Insul.	20	12	17	12	0	19,075	0.40	479	0.00	0	479	10	893	953.73	0.033	40	-	-	40	0.572	53
Sloped Attic Insul.	30	19	24	19	0	8,980	0.62	749	0.00	0	749	9	815	299.32	0.033	39	-	-	39	0.370	34
Kneewall Insul.	22	13	21	13	0	7,029	0.15	184	0.00	0	184	3	300	319.52	0.012	14	-	-	14	0.155	14
Infl. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	65	14	57	14	0	64,441	0.54	656	0.00	0	656	19	1,768	991.40	0.039	47	-	-	47	0.338	31
Bandjoist Insul.	49	2	47	-	2	8,944	0.00	0	0.02	24	24	2	204	182.53	-	-	0.008	12	12	0.047	4
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	52	0	52	-	-	100,438	0.00	0	0.00	0	0	58	5,369	1931.49	-	-	-	-	-	1.123	103
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
	Total	Electric	Gas	Number of Measures by Fuel Type Total	Electric	Gas		Summer kW		Winter kW		Annual kWh	Pk Day therms	Annual therms		Summer kW		Winter kW		Annual kWh	Pk Day therms	Annual therms
Water Heating	102	17	85	121	20	101	71,953	0.0		0.0		1,050	12.8	2,173	705.42	0.000		0.001		62	0.151	26
Temp. Reduct.	7	2	5	7	2	5	0	0.00		0.00		176	0.1	38	0.00	0.000		0.000		88	0.022	8
WH Wrap	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.00	-		-		-	-	-
Pipe Insul.	53	14	39	53	14	39	279	0.00		0.00		467	0.3	118	5.27	0.000		0.000		33	0.009	3
LF Showerhead	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.00	-		-		-	-	-
Faucet Aerator	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.00	-		-		-	-	-
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.00	-		-		-	-	-
Hi-Eff Wtr Htr Repl.	62	4	58	61	4	57	71 674	0.00		0.01		406	12.4	2 018	1156.03	0.000		0.003		102	0.213	35
Lighting	130	130		1,246	1,246		8,743	2.6		4.9		25,007	-	-	67.25	0.020		0.037		192	-	-
CFL (5W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (7W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (9W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (11W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (13W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (14W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (15W)	129	129		1,195	1,195		8,386	2.45		4.52		23,306	-	-	65.01	0.019		0.035		181	-	-
CFL (18W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (20W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (23W)	12	12		51	51		357	0.18		0.33		1,700	-	-	29.75	0.015		0.027		142	-	-
CFL (25W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (30W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL unknown	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
Refrigerator/Freezer	31	31		31	31		14 722	1.50		1.40		12 188	-	-	474.90	0.048		0.045		393		
Refrigerator Removal	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
Refrigerator Exchange	25	25		25	25		12,699	1.19		1.11		9,686	-	-	507.96	0.048		0.045		387	-	-
Freezer Removal	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
Freezer Exchange	6	6		6	6		2,023	0.31		0.29		2,502	-	-	337.17	0.051		0.048		417	-	-

Costs for Measures Without Energy Impacts Installed in 164 Total Households with Spending and/or Energy Impacts:

Total		**59,095**	**360.33**
Unspecified Insul.	0	0	0.00
Duct Sealing	0	0	0.00
Duct Insulation	0	0	0.00
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	25	1,895	75.80
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	0	0	0.00
Water Heater Ventilation	2	300	150.00
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Vent lation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	0	0	0.00
Meter Refrig (no action)	10	0	0.00
Meter Freezer (no action)	3	0	0.00
Support	164	56,900	346.95
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**540,098**	**3,293.28**
Grand Total of Expenditures:		**540,098**	

Community Action of Eastern Iowa
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by Season		Estimated First-Year Savings								Average Estimated First Year Measure Cost and Savings Average per Treated Household						
						Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Pk Day therms	Gas Annual therms	Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Pk Day therms	Gas Annual therms
	Total	Electric	Gas	Cooling	Heating																
OVERALL (Energy Mea)	**110**	**89**	**95**	**89**	**80**	**337,155**	**14.9**		**7.1**		**53,835**	**183**	**17,721**	**3065.04**	**0.167**		**0.088**		**605**	**1.922**	**187**
Shell & Htg. Sys.	109	84	95	84	95	279,567	10.5	12,707	0.0	0	12,707	173	15,943	2564.83	0.125	151	0.000	0	151	1.826	168
Wall Insul.	63	50	54	50	0	74,778	4.37	5,268	0.00	0	5,268	52	4,746	1186.96	0.087	105	-	-	105	0.956	88
Open Blown Ceiing Insul.	73	58	62	58	0	37,373	3.50	4,224	0.00	0	4,224	32	2,950	511.96	0.060	73	-	-	73	0.518	48
Cavity Fill Insul.	26	23	23	23	0	14,318	1.05	1,264	0.00	0	1,264	14	1,297	550.67	0.046	55	-	-	55	0.614	56
Sloped Attic Insul.	19	14	17	14	0	8,240	0.43	524	0.00	0	524	8	775	433.70	0.031	37	-	-	37	0.496	46
Kneewall Insul.	18	16	15	16	0	3,354	0.12	140	0.00	0	140	2	186	186.35	0.007	9	-	-	9	0.135	12
Infl. Reduction	108	84	94	84	0	30,514	0.61	734	0.00	0	734	13	1,219	282.54	0.007	9	-	-	9	0.141	13
Found./Crawl. Insul.	39	13	37	13	0	31,208	0.46	552	0.00	0	552	9	786	800.21	0.035	42	-	-	42	0.231	21
Bandjoist Insul.	13	0	13	-	0	984	0.00	0	0.00	0	0	0	26	75.68	-	-	-	-	-	0.022	2
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	37	0	37	-	-	78,798	0.00	0	0.00	0	0	43	3,958	2129.66	-	-	-	-	-	1.164	107
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

	Number of Measures by Fuel Type																		
	Total	Electric	Gas	Total	Electric	Gas		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms
Water Heating	86	11	75	190	25	165	38,985	0.0	0.0	1,124	9.2	1,778	453.31	0.000	0.002	102	0.122	24
Temp. Reduct.	18	1	17	18	1	17	0	0.00	0.00	88	0.4	147	0.00	0.000	0.000	88	0.025	9
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	65	9	56	65	9	56	369	0.00	0.00	295	0.6	195	5.68	0.000	0.000	33	0.010	3
LF Showerhead	18	2	16	18	2	16	180	0.00	0.01	268	0.4	134	10.00	0.000	0.003	134	0.027	8
Faucet Aerator	34	6	28	58	11	47	174	0.00	0.01	277	0.3	77	5.12	0.000	0.001	46	0.009	3
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	33	2	31	31	2	29	38 262	0.00	0.00	197	7.5	1 225	1159.45	0.000	0.002	98	0.242	40
Lighting	78	78		1,004	1,004		7,044	3.3	6.0	31,134	-	-	90.31	0.042	0.077	399	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (13W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	1	1		5	5		35	0.01	0.02	97	-	-	35.00	0.010	0.019	97	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	24	24		176	176		1,232	0.44	0.81	4,192	-	-	51.33	0.018	0.034	175	-	-
CFL (23W)	23	23		133	133		931	0.47	0.86	4,435	-	-	40.48	0.020	0.037	193	-	-
CFL (25W)	53	53		688	688		4,816	2.35	4.33	22,344	-	-	90.87	0.044	0.082	422	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL unknown	2	2		2	2		30	0.01	0.01	67	-	-	15.00	0.004	0.006	33	-	-
Refrigerator/Freezer	20	20		23	23		11 559	1.09	1.02	8 870	-	-	577.95	0.055	0.051	444		
Refrigerator Removal	1	1		1	1		9	0.05	0.05	391	-	-	9.00	0.048	0.045	391	-	-
Refrigerator Exchange	18	18		20	20		10,927	0.94	0.88	7,645	-	-	607.06	0.052	0.049	425	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	2	2		2	2		623	0.10	0.10	834	-	-	311.50	0.051	0.048	417	-	-

Costs for Measures Without Energy Impacts Installed in 110 Total Households with Spending and/or Energy Impacts:

Total		**77,348**	**703.17**
Unspecified Insul.	18	619	34.41
Duct Sealing	0	0	0.00
Duct Insulation	0	0	0.00
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	91	11,257	123.70
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	9	879	97.65
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	45	5,667	125.92
Water Heater Ventilation	37	4,341	117.32
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Ventlation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	29	1,277	44.02
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	103	21 698	210.66
Meter Refrig (no action)	63	0	0.00
Meter Freezer (no action)	21	0	0.00
Support	79	31,612	400.15
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**414,503**	**3,768.21**
Grand Total of Expenditures:		**414,503**	

MATURA Action Corporation
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by Season		Estimated First-Year Savings								Average Estimated First Year Measure Cost and Savings Average per Treated Household						
							Electricity					Gas			Electricity				Gas	
	Total	Electric	Gas	Cooling	Heating	Spending on Materials & Labor ($)	Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Pk Day therms	Annual therms	Spending on Materials & Labor ($)	Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Pk Day therms	Annual therms
OVERALL (Energy Mea)	**31**	**24**	**19**	**24**	**22**	**93,309**	**6.9**		**2.0**		**16,200**	**62**	**5,615**	**3009.96**	**0.285**		**0.093**		**675**	**3.265**	**296**
Shell & Htg. Sys.	31	24	19	24	21	75,729	6.1	7,370	1.1	1,574	8,943	60	5,128	2442.86	0.255	307	0.052	75	373	3.132	270
Wall Insul.	26	19	17	19	2	24,566	2.63	3,170	0.35	506	3,676	23	1,952	944.86	0.138	167	0.175	253	193	1.332	115
Open Blown Ceiing Insul.	27	21	16	21	2	15,196	2.38	2,874	0.61	878	3,752	6	513	562.80	0.113	137	0.304	439	179	0.372	32
Cavity Fill Insul.	4	2	2	2	0	1,112	0.09	113	0.00	0	113	1	114	277.96	0.047	57	-	-	57	0.660	57
Sloped Attic Insul.	8	6	4	6	0	1,705	0.26	312	0.00	0	312	3	285	213.08	0.043	52	-	-	52	0.827	71
Kneewall Insul.	2	2	1	2	0	767	0.05	59	0.00	0	59	0	31	383.55	0.024	30	-	-	30	0.362	31
Infl. Reduction	30	23	19	23	1	9,973	0.21	258	0.10	142	400	2	184	332.44	0.009	11	0.098	142	17	0.112	10
Found./Crawl. Insul.	11	8	5	8	0	2,574	0.48	583	0.00	0	583	1	85	234.00	0.060	73	-	-	73	0.196	17
Bandjoist Insul.	11	1	10	-	1	790	0.00	0	0.03	48	48	0	35	71.80	-	-	0.033	48	48	0.040	3
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	10	0	10	-	-	19,046	0.00	0	0.00	0	0	22	1,930	1904.61	-	-	-	-	-	2.240	193
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

	Number of Measures by Fuel Type																		
	Total	Electric	Gas	Total	Electric	Gas		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms
Water Heating	23	9	14	39	13	26	8,397	0.0	0.0	865	2.5	487	365.09	0.000	0.002	96	0.181	35
Temp. Reduct.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	22	8	14	22	8	14	132	0.00	0.00	266	0.2	73	6.00	0.000	0.000	33	0.015	5
LF Showerhead	9	3	6	9	3	6	90	0.00	0.01	402	0.2	76	10.00	0.000	0.003	134	0.041	13
Faucet Aerator	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	8	2	6	8	2	6	8 175	0.00	0.00	197	2.1	338	1021.88	0.000	0.002	98	0.346	56
Lighting	18	18		115	115		805	0.3	0.5	2,587	-	-	44.72	0.015	0.028	144	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (13W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	14	14		61	61		427	0.13	0.23	1,196	-	-	30.50	0.009	0.017	85	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	10	10		43	43		301	0.11	0.20	1,024	-	-	30.10	0.011	0.020	102	-	-
CFL (23W)	8	8		11	11		77	0.04	0.07	367	-	-	9.63	0.005	0.009	46	-	-
CFL (25W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator/Freezer	11	11		10	10		8 378	0.47	0.44	3 805	-	-	761.66	0.043	0.040	346		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	11	11		10	10		8,378	0.47	0.44	3,805	-	-	761.66	0.043	0.040	346	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 32 Total Households with Spending and/or Energy Impacts:

Total		**22,963**	**717.60**
Unspecified Insul.	11	1,102	100.17
Duct Sealing	0	0	0.00
Duct Insulation	0	0	0.00
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	4	500	125.00
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	10	1,025	102.50
Water Heater Ventilation	8	745	93.13
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Ventilation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	5	318	63.56
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	31	7 034	226.89
Meter Refrig (no action)	14	0	0.00
Meter Freezer (no action)	5	0	0.00
Support	25	12,240	489.60
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**116,272**	**3,633.50**
Grand Total of Expenditures:		**116,272**	

Mid-Iowa Community Action
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by Season		Estimated First-Year Savings								Average Estimated First Year Measure Cost and Savings Average per Treated Household						
						Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Pk Day therms	Gas Annual therms	Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Pk Day therms	Gas Annual therms
	Total	Electric	Gas	Cooling	Heating															
OVERALL (Energy Mea)	**107**	**99**	**89**	**99**	**85**	**356,688**	**16.1**		**9.7**		**51,573**	**227**	**21,339**	**3333.53**	**0.163**		**0.114**		**521**	**2.547**	**240**
Shell & Htg. Sys.	105	88	89	87	95	344,606	13.4	16,178	5.5	8,614	24,792	226	21,037	3281.96	0.154	186	0.058	91	282	2.536	236
Wall Insul.	73	63	63	63	4	111,801	5.82	7,016	3.06	4,782	11,798	72	6,720	1531.52	0.092	111	0.765	1,195	187	1.145	107
Open Blown Ceiing Insul.	82	72	68	71	5	46,549	3.34	4,028	0.62	970	4,998	18	1,640	567.67	0.047	57	0.124	194	69	0.259	24
Cavity Fill Insul.	27	19	26	19	0	19,551	1.15	1,386	0.00	0	1,386	25	2,348	724.12	0.060	73	-	-	73	0.969	90
Sloped Attic Insul.	41	36	34	36	2	12,769	1.76	2,128	0.83	1,298	3,426	16	1,525	311.43	0.049	59	0.416	649	95	0.481	45
Kneewall Insul.	16	14	14	14	0	9,307	0.24	292	0.00	0	292	3	244	581.70	0.017	21	-	-	21	0.187	17
Infl. Reduction	97	78	81	77	5	22,818	0.41	498	0.25	389	886	6	577	235.24	0.005	6	0.050	78	11	0.076	7
Found./Crawl. Insul.	40	18	34	17	5	25,405	0.69	831	0.60	937	1,768	6	549	635.13	0.041	49	0.120	187	98	0.173	16
Bandjoist Insul.	41	3	38	-	3	6,270	0.00	0	0.15	238	238	3	281	152.92	-	-	0.051	79	79	0.079	7
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	48	0	48	-	-	90,135	0.00	0	0.00	0	0	77	7,153	1877.82	-	-	-	-	-	1.599	149
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

	Number of Measures by Fuel Type																		
	Total	Electric	Gas	Total	Electric	Gas		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms
Water Heating	71	30	41	115	46	69	417	0.0	0.0	2,162	0.9	302	5.88	0.000	0.001	72	0.023	7
Temp. Reduct.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	55	25	30	55	25	30	200	0.00	0.00	828	0.3	119	3.63	0.000	0.000	33	0.011	4
LF Showerhead	21	7	14	21	7	14	112	0.00	0.02	972	0.4	136	5.35	0.000	0.003	139	0.032	10
Faucet Aerator	34	12	22	39	14	25	105	0.00	0.01	362	0.2	47	3.10	0.000	0.001	30	0.007	2
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Lighting	79	79		741	741		2,170	1.8	3.2	16,738	-	-	27.47	0.022	0.041	212	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (13W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	78	78		581	581		1,609	1.20	2.21	11,403	-	-	20.62	0.015	0.028	146	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (23W)	48	48		160	160		562	0.56	1.03	5,335	-	-	11.70	0.012	0.022	111	-	-
CFL (25W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator/Freezer	20	20		20	20		9 494	0.97	0.91	7 881	-	-	474.68	0.048	0.045	394		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	18	18		18	18		8,640	0.87	0.81	7,047	-	-	480.00	0.048	0.045	391	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	2	2		2	2		854	0.10	0.10	834	-	-	426.83	0.051	0.048	417	-	-

Costs for Measures Without Energy Impacts Installed in 107 Total Households with Spending and/or Energy Impacts:

Total		**71,392**	**667.21**
Unspecified Insul.	43	8,179	190.21
Duct Sealing	0	0	0.00
Duct Insulation	0	0	0.00
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	33	3,195	96.83
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	20	2,079	103.94
Water Heater Ventilation	17	1,416	83.29
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Vent lation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	27	1,204	44.59
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	80	16 396	204.95
Meter Refrig (no action)	61	0	0.00
Meter Freezer (no action)	32	0	0.00
Support	107	38,923	363.76
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**428,079**	**4,000.74**
Grand Total of Expenditures:		**428,079**	

Mid-Sioux Opportunity
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by Season		Estimated First-Year Savings								Average Estimated First Year Measure Cost and Savings Average per Treated Household						
						Spending on Materials & Labor ($)	Electricity					Gas		Spending on Materials & Labor ($)	Electricity				Gas	
	Total	Electric	Gas	Cooling	Heating		Summer kW	kWh	Winter kW	kWh	Annual kWh	Pk Day therms	Annual therms		Summer kW	kWh	Winter kW	kWh	Annual kWh	Pk Day therms	Annual therms
OVERALL (Energy Mea)	**23**	**20**	**16**	**20**	**20**	**87,016**	**3.2**		**2.6**		**11,941**	**39**	**3,787**	**3783.31**	**0.159**		**0.128**		**597**	**2.452**	**237**
Shell & Htg. Sys.	23	19	16	19	18	74,598	2.5	3,060	1.5	2,280	5,340	37	3,365	3243.40	0.134	161	0.083	127	281	2.305	210
Wall Insul.	12	10	8	10	0	18,807	1.00	1,201	0.00	0	1,201	11	980	1567.24	0.100	120	-	-	120	1.343	123
Open Blown Ceiing Insul.	15	13	10	13	2	9,664	1.01	1,217	0.76	1,168	2,385	2	218	644.28	0.078	94	0.382	584	183	0.239	22
Cavity Fill Insul.	8	6	5	6	2	9,380	0.27	323	0.63	961	1,284	6	544	1172.47	0.045	54	0.314	481	214	1.193	109
Sloped Attic Insul.	4	4	2	4	1	655	0.08	95	0.05	80	175	1	62	163.77	0.020	24	0.052	80	44	0.341	31
Kneewall Insul.	2	1	2	1	0	1,148	0.02	28	0.00	0	28	1	51	574.02	0.023	28	-	-	28	0.280	26
Infl. Reduction	19	14	11	14	2	5,378	0.16	197	0.05	70	267	2	147	283.03	0.012	14	0.023	35	19	0.147	13
Found./Crawl. Insul.	2	0	2	0	0	3,523	0.00	0	0.00	0	0	1	90	1761.60	-	-	-	-	-	0.491	45
Bandjoist Insul.	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	10	0	10	-	-	26,043	0.00	0	0.00	0	0	14	1,272	2604.33	-	-	-	-	-	1.395	127
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
	Total	Electric	Gas	Number of Measures by Fuel Type Total	Electric	Gas		Summer kW		Winter kW		Annual kWh	Pk Day therms	Annual therms		Summer kW		Winter kW		Annual kWh	Pk Day therms	Annual therms
Water Heating	20	8	12	46	17	29	9,180	0.0		0.0		739	2.4	422	459.00	0.000		0.001		92	0.196	35
Temp. Reduct.	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.00	-		-		-	-	-
WH Wrap	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.00	-		-		-	-	-
Pipe Insul.	19	8	11	19	8	11	108	0.00		0.00		271	0.1	43	5.68	0.000		0.000		34	0.011	4
LF Showerhead	3	1	2	3	1	2	30	0.00		0.00		134	0.1	18	10.00	0.000		0.003		134	0.029	9
Faucet Aerator	10	4	6	14	6	8	42	0.00		0.00		154	0.0	15	4.20	0.000		0.001		39	0.008	3
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00		0.00		0	0.0	0	0.00	-		-		-	-	-
Hi-Eff Wtr Htr Repl.	10	2	8	10	2	8	9 000	0.00		0.00		180	2.1	345	900.00	0.000		0.002		90	0.265	43
Lighting	19	19		202	202		1,414	0.5		0.9		4,822	-	-	74.42	0.027		0.049		254	-	-
CFL (5W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (7W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (9W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (11W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (13W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (14W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (15W)	14	14		82	82		574	0.17		0.31		1,621	-	-	41.00	0.012		0.022		116	-	-
CFL (18W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (20W)	13	13		84	84		588	0.21		0.39		2,001	-	-	45.23	0.016		0.030		154	-	-
CFL (23W)	11	11		36	36		252	0.13		0.23		1,200	-	-	22.91	0.011		0.021		109	-	-
CFL (25W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL (30W)	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
CFL unknown	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
Refrigerator/Freezer	3	3		3	3		1 824	0.13		0.12		1 040	-	-	608.00	0.043		0.040		347		
Refrigerator Removal	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
Refrigerator Exchange	1	1		1	1		624	0.05		0.05		391	-	-	624.00	0.048		0.045		391	-	-
Freezer Removal	0	0		0	0		0	0.00		0.00		0	-	-	0.00	-		-		-	-	-
Freezer Exchange	2	2		2	2		1,200	0.08		0.07		649	-	-	600.00	0.040		0.037		324	-	-

Costs for Measures Without Energy Impacts Installed in 23 Total Households with Spending and/or Energy Impacts:

Total		**19,753**	**858.82**
Unspecified Insul.	9	2,004	222.63
Duct Sealing	0	0	0.00
Duct Insulation	0	0	0.00
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	6	750	125.00
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	7	750	107.14
Water Heater Ventilation	7	750	107.14
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Ventlation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	19	4 310	226.85
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action)	0	0	0.00
Support	23	11,189	486.48
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**106,769**	**4,642.13**
Grand Total of Expenditures:		**106,769**	

North Iowa Community Action Organization
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts: Total	Electric	Gas	Count of Households with Electricity Impacts by Season: Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings: Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings Average per Treated Household: Spending on Materials & Labor ($)	Electricity: Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Gas: Pk Day therms	Annual therms
OVERALL (Energy Mea)	**75**	**72**	**70**	**72**	**69**	**318,614**	**10.6**		**6.6**		**38,270**	**189**	**19,414**	**4248.19**	**0.147**		**0.096**		**532**	**2.696**	**277**
Shell & Htg. Sys.	73	59	70	59	71	257,729	8.1	9,734	2.9	4,711	14,445	180	17,743	3530.54	0.137	165	0.040	66	245	2.570	253
Wall Insul.	61	49	60	49	0	101,988	3.57	4,300	0.00	0	4,300	57	5,596	1671.93	0.073	88	-	-	88	0.946	93
Open Blown Ceiing Insul.	69	56	65	56	1	24,246	2.65	3,193	0.90	1,487	4,681	51	5,030	351.39	0.047	57	0.900	1,487	84	0.785	77
Cavity Fill Insul.	37	27	34	27	1	19,583	0.59	712	0.93	1,536	2,247	14	1,394	529.26	0.022	26	0.929	1,536	83	0.416	41
Sloped Attic Insul.	41	31	39	31	0	19,124	0.62	744	0.00	0	744	13	1,246	466.44	0.020	24	-	-	24	0.324	32
Kneewall Insul.	31	25	30	25	0	12,913	0.32	387	0.00	0	387	7	711	416.55	0.013	15	-	-	15	0.240	24
Infl. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	35	10	32	10	1	12,039	0.33	397	1.02	1,688	2,085	4	396	343.98	0.033	40	1.021	1,688	209	0.126	12
Bandjoist Insul.	26	0	26	-	0	2,939	0.00	0	0.00	0	0	2	168	113.03	-	-	-	-	-	0.066	6
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	34	0	34	-	-	64,898	0.00	0	0.00	0	0	32	3,201	1908.76	-	-	-	-	-	0.955	94
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
	Number of Measures by Fuel Type: Total	Electric	Gas	Total	Electric	Gas		Summer kW		Winter kW	Annual kWh	Pk Day therms	Annual therms		Summer kW		Winter kW		Annual kWh	Pk Day therms	Annual therms
Water Heating	70	8	62	221	21	200	38,368	0.0		0.0	1,049	8.8	1,671	548.11	0.000		0.002		131	0.142	27
Temp. Reduct.	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
WH Wrap	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Pipe Insul.	65	8	57	65	8	57	42	0.00		0.00	266	0.5	167	0.65	0.000		0.000		33	0.008	3
LF Showerhead	32	4	28	32	4	28	105	0.00		0.01	553	0.6	199	3.30	0.000		0.003		138	0.023	7
Faucet Aerator	56	6	50	91	9	82	47	0.00		0.01	230	0.4	114	0.85	0.000		0.001		38	0.007	2
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Hi-Eff Wtr Htr Repl.	34	0	34	33	0	33	38 173	0.00		0.00	0	7.3	1 190	1122.73	-		-		-	0.215	35
Lighting	69	69		742	742		4,435	1.5		2.8	14,609	-	-	64.27	0.022		0.041		212	-	-
CFL (5W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (7W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (9W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (11W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (13W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (14W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (15W)	69	69		734	734		4,320	1.51		2.78	14,333	-	-	62.62	0.022		0.040		208	-	-
CFL (18W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (20W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (23W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (25W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (30W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL unknown	5	5		8	8		114	0.03		0.05	276	-	-	22.89	0.006		0.011		55	-	-
Refrigerator/Freezer	23	23		21	21		18 082	1.00		0.94	8 167	-	-	786.17	0.044		0.041		355		
Refrigerator Removal	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
Refrigerator Exchange	19	19		15	15		15,099	0.72		0.68	5,885	-	-	794.68	0.038		0.036		310	-	-
Freezer Removal	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
Freezer Exchange	6	6		5	5		2,983	0.28		0.26	2,282	-	-	497.17	0.047		0.044		380	-	-

Costs for Measures Without Energy Impacts Installed in 75 Total Households with Spending and/or Energy Impacts:

Total		**38,423**	**512.31**
Unspecified Insul.	0	0	0.00
Duct Sealing	0	0	0.00
Duct Insulation	0	0	0.00
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	3	450	150.00
Water Heater Ventilation	3	390	130.00
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Vent lation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	0	0	0.00
Meter Refrig (no action)	1	0	0.00
Meter Freezer (no action)	0	0	0.00
Support	75	37,583	501.11
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**357,037**	**4,760.49**
Grand Total of Expenditures:		**357,037**	

Northeast Iowa Community Action Corporation
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts Total	Electric	Gas	Count of Households with Electricity Impacts by Season Cooling	Heating	Spending on Materials & Labor ($)	Estimated First-Year Savings Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk Day therms	Annual therms	Average Estimated First Year Measure Cost and Savings Average per Treated Household Spending on Materials & Labor ($)	Electricity Summer kW	kWh	Winter kW	kWh	Annual kWh	Gas Pk Day therms	Annual therms
OVERALL (Energy Mea)	**79**	**61**	**58**	**61**	**58**	**150,243**	**5.3**		**2.2**		**18,573**	**47**	**4,676**	**1901.81**	**0.086**		**0.039**		**304**	**0.815**	**81**
Shell & Htg. Sys.	60	37	49	36	51	118,327	4.0	4,875	0.4	692	5,567	44	4,121	1972.12	0.112	135	0.009	14	150	0.903	84
Wall Insul.	19	15	16	15	0	16,918	1.40	1,688	0.00	0	1,688	12	1,136	890.43	0.093	113	-	-	113	0.762	71
Open Blown Ceiing Insul.	34	28	26	28	0	17,249	1.89	2,275	0.00	0	2,275	2	194	507.34	0.067	81	-	-	81	0.080	7
Cavity Fill Insul.	1	0	1	0	0	590	0.00	0	0.00	0	0	1	84	590.10	-	-	-	-	-	0.900	84
Sloped Attic Insul.	3	2	3	2	0	1,579	0.15	181	0.00	0	181	1	103	526.21	0.075	90	-	-	90	0.370	34
Kneewall Insul.	13	11	10	10	1	5,951	0.32	392	0.15	238	629	1	91	457.77	0.032	39	0.152	238	57	0.098	9
Infl. Reduction	11	11	4	11	0	3,209	0.08	100	0.00	0	100	1	57	291.73	0.008	9	-	-	9	0.153	14
Found./Crawl. Insul.	10	5	8	5	1	9,717	0.20	241	0.27	420	661	0	34	971.69	0.040	48	0.269	420	132	0.045	4
Bandjoist Insul.	30	1	29	-	1	10,923	0.00	0	0.02	34	34	2	181	364.10	-	-	0.022	34	34	0.067	6
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	30	0	30	-	-	52,191	0.00	0	0.00	0	0	24	2,241	1739.69	-	-	-	-	-	0.802	75
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

	Total	Electric	Gas	Number of Measures by Fuel Type Total	Electric	Gas		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms
Water Heating	63	29	34	91	40	51	23,599	0.0	0.0	2,110	3.0	555	374.58	0.000	0.000	73	0.089	16
Temp. Reduct.	23	12	11	23	12	11	0	0.00	0.00	1,058	0.2	62	0.00	0.000	0.000	88	0.016	6
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	49	26	23	49	26	23	203	0.00	0.00	856	0.1	52	4.13	0.000	0.000	33	0.006	2
LF Showerhead	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Faucet Aerator	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	20	2	18	19	2	17	23 396	0.00	0.00	197	2.7	441	1169.81	0.000	0.002	98	0.150	25
Lighting	48	48		274	274		610	0.7	1.3	6,779	-	-	12.70	0.015	0.027	141	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (13W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	24	24		109	109		244	0.22	0.41	2,137	-	-	10.15	0.009	0.017	89	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	23	23		92	92		204	0.23	0.43	2,207	-	-	8.87	0.010	0.019	96	-	-
CFL (23W)	25	25		64	64		142	0.22	0.42	2,143	-	-	5.69	0.009	0.017	86	-	-
CFL (25W)	3	3		9	9		20	0.03	0.06	292	-	-	6.58	0.010	0.019	97	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator/Freezer	10	10		10	10		7 708	0.51	0.47	4 118	-	-	770.80	0.051	0.047	412		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	9	9		9	9		6,554	0.42	0.39	3,395	-	-	728.22	0.046	0.043	377	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	2	2		2	2		1,154	0.09	0.08	723	-	-	577.00	0.044	0.042	362	-	-

Costs for Measures Without Energy Impacts Installed in 80 Total Households with Spending and/or Energy Impacts:

Total		**19,339**	**241.73**
Unspecified Insul.	1	215	215.12
Duct Sealing	0	0	0.00
Duct Insulation	1	90	89.58
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	0	0	0.00
Water Heater Ventilation	0	0	0.00
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Ventlation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	1	36	35.60
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	23	3 684	160.18
Meter Refrig (no action)	52	0	0.00
Meter Freezer (no action)	19	0	0.00
Support	75	15,314	204.19
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**169,582**	**2,119.77**
Grand Total of Expenditures:		**169,582**	

Operation: New View Community Action Agency
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by Season		Estimated First-Year Savings								Average Estimated First Year Measure Cost and Savings Average per Treated Household						
							Electricity					Gas			Electricity				Gas	
	Total	Electric	Gas	Cooling	Heating	Spending on Materials & Labor ($)	Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Pk Day therms	Annual therms	Spending on Materials & Labor ($)	Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Pk Day therms	Annual therms
OVERALL (Energy Mea)	**63**	**54**	**50**	**54**	**53**	**130,648**	**7.0**		**4.2**		**30,124**	**79**	**7,374**	**2073.78**	**0.129**		**0.079**		**558**	**1.579**	**147**
Shell & Htg. Sys.	55	35	47	35	48	109,298	4.3	5,194	0.1	195	5,389	78	7,174	1987.24	0.123	148	0.003	4	154	1.661	153
Wall Insul.	19	17	17	17	0	22,943	1.48	1,789	0.00	0	1,789	13	1,227	1207.51	0.087	105	-	-	105	0.785	72
Open Blown Ceiing Insul.	34	28	27	28	0	13,987	1.48	1,785	0.00	0	1,785	11	1,011	411.38	0.053	64	-	-	64	0.408	37
Cavity Fill Insul.	21	15	19	15	0	16,771	0.58	702	0.00	0	702	12	1,115	798.63	0.039	47	-	-	47	0.639	59
Sloped Attic Insul.	17	11	14	11	0	3,846	0.32	384	0.00	0	384	5	451	226.23	0.029	35	-	-	35	0.350	32
Kneewall Insul.	7	4	6	4	0	1,748	0.05	57	0.00	0	57	1	114	249.64	0.012	14	-	-	14	0.207	19
Infl. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	25	11	20	11	1	19,674	0.40	476	0.13	195	671	9	837	786.95	0.036	43	0.126	195	61	0.455	42
Bandjoist Insul.	6	0	6	-	0	313	0.00	0	0.00	0	0	0	10	52.17	-	-	-	-	-	0.018	2
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	17	0	17	-	-	30,017	0.00	0	0.00	0	0	26	2,410	1765.71	-	-	-	-	-	1.542	142
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

	Number of Measures by Fuel Type																			
	Total	Electric	Gas	Total	Electric	Gas		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms
Water Heating	46	17	29	50	18	32	3,370	0.0	0.0	614	0.9	199	73.26	0.000	0.000	36	0.031	7
Temp. Reduct.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	44	16	28	44	16	28	255	0.00	0.00	557	0.3	97	5.80	0.000	0.000	35	0.010	3
LF Showerhead	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Faucet Aerator	2	1	1	3	2	1	9	0.00	0.00	57	0.0	2	4.50	0.000	0.001	57	0.005	2
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	3	0	3	3	0	3	3 106	0.00	0.00	0	0.6	101	1035.33	-	-	-	0.207	34
Lighting	53	53		570	570		3,990	1.7	3.2	16,566	-	-	75.28	0.033	0.061	313	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (13W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	13	13		118	118		826	0.24	0.45	2,325	-	-	63.54	0.019	0.035	179	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	6	6		66	66		462	0.17	0.30	1,572	-	-	77.00	0.028	0.051	262	-	-
CFL (23W)	9	9		93	93		651	0.33	0.61	3,153	-	-	72.33	0.037	0.068	350	-	-
CFL (25W)	25	25		293	293		2,051	1.00	1.85	9,516	-	-	82.04	0.040	0.074	381	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator/Freezer	18	18		19	19		13 990	0.93	0.87	7 555	-	-	777.22	0.052	0.048	420		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	17	17		17	17		12,790	0.83	0.78	6,788	-	-	752.35	0.049	0.046	399	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	2	2		2	2		1,200	0.09	0.09	766	-	-	600.00	0.047	0.044	383	-	-

Costs for Measures Without Energy Impacts Installed in 63 Total Households with Spending and/or Energy Impacts:

Total		**14,037**	**222.80**
Unspecified Insul.	0	0	0.00
Duct Sealing	0	0	0.00
Duct Insulation	1	9	8.70
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	13	1,107	85.14
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	1	100	100.00
Water Heater Ventilation	1	150	150.00
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Vent lation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action)	0	0	0.00
Support	60	12,671	211.18
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**144,685**	**2,296.58**
Grand Total of Expenditures:		**144,685**	

Operation Threshold
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by Season		Estimated First-Year Savings								Average Estimated First Year Measure Cost and Savings Average per Treated Household						
						Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Pk Day therms	Gas Annual therms	Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Pk Day therms	Gas Annual therms
	Total	Electric	Gas	Cooling	Heating																
OVERALL (Energy Mea)	**64**	**58**	**60**	**58**	**54**	**250,725**	**9.1**		**2.4**		**25,635**	**142**	**14,190**	**3917.57**	**0.158**		**0.044**		**442**	**2.374**	**237**
Shell & Htg. Sys.	62	53	59	53	59	198,383	7.5	9,016	0.0	0	9,016	133	12,378	3199.72	0.141	170	0.000	0	170	2.252	210
Wall Insul.	43	36	41	36	0	74,224	3.16	3,812	0.00	0	3,812	41	3,825	1726.14	0.088	106	-	-	106	1.001	93
Open Blown Ceiing Insul.	47	41	46	41	0	28,930	2.79	3,368	0.00	0	3,368	27	2,506	615.54	0.068	82	-	-	82	0.585	54
Cavity Fill Insul.	21	14	21	14	0	19,330	0.54	656	0.00	0	656	15	1,419	920.47	0.039	47	-	-	47	0.725	68
Sloped Attic Insul.	10	8	10	8	0	4,322	0.27	331	0.00	0	331	6	513	432.17	0.034	41	-	-	41	0.551	51
Kneewall Insul.	7	7	7	7	0	2,140	0.15	180	0.00	0	180	2	214	305.76	0.021	26	-	-	26	0.328	31
Infl. Reduction	61	53	58	53	0	18,960	0.44	529	0.00	0	529	5	433	310.82	0.008	10	-	-	10	0.080	7
Found./Crawl. Insul.	11	3	10	3	0	5,263	0.12	140	0.00	0	140	2	187	478.44	0.039	47	-	-	47	0.200	19
Bandjoist Insul.	26	0	26	-	0	2,385	0.00	0	0.00	0	0	2	147	91.74	-	-	-	-	-	0.061	6
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	26	0	26	-	-	42,828	0.00	0	0.00	0	0	34	3,134	1647.23	-	-	-	-	-	1.294	121
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

	Number of Measures by Fuel Type						Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms
	Total	Electric	Gas	Total	Electric	Gas											
Water Heating	61	12	49	195	34	161	39,100	0.0	0.0	1,891	9.6	1,812	640.99	0.000	0.003	158	0.195	37
Temp. Reduct.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	60	12	48	60	12	48	318	0.00	0.00	393	0.5	176	5.30	0.000	0.000	33	0.011	4
LF Showerhead	33	6	27	33	6	27	330	0.00	0.02	803	0.8	240	10.00	0.000	0.003	134	0.029	9
Faucet Aerator	44	8	36	70	12	58	210	0.00	0.01	302	0.3	101	4.77	0.000	0.001	38	0.009	3
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	35	4	31	32	4	28	38 242	0.00	0.01	393	7.9	1 296	1092.63	0.000	0.002	98	0.256	42
Lighting	54	54		377	377		2,639	0.8	1.6	8,067	-	-	48.87	0.016	0.029	149	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	18	18		86	86		602	0.11	0.21	1,080	-	-	33.44	0.006	0.012	60	-	-
CFL (13W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	42	42		196	196		1,372	0.40	0.74	3,819	-	-	32.67	0.010	0.018	91	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (23W)	35	35		95	95		665	0.33	0.61	3,168	-	-	19.00	0.010	0.018	91	-	-
CFL (25W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator/Freezer	17	17		17	17		10 603	0.82	0.77	6 661	-	-	623.71	0.048	0.045	392		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	13	13		13	13		8,902	0.62	0.58	5,056	-	-	684.77	0.048	0.045	389	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	4	4		4	4		1,701	0.20	0.18	1,606	-	-	425.25	0.049	0.046	401	-	-

Costs for Measures Without Energy Impacts Installed in 95 Total Households with Spending and/or Energy Impacts:

Total		**39,029**	**410.83**
Unspecified Insul.	19	1,820	95.81
Duct Sealing	0	0	0.00
Duct Insulation	0	0	0.00
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	32	2,387	74.61
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	2	256	128.00
Water Heater Ventilation	6	572	95.33
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Vent lation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	15	668	44.54
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	56	7 781	138.94
Meter Refrig (no action)	61	0	0.00
Meter Freezer (no action)	28	0	0.00
Support	60	25,544	425.74
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**289,754**	**3,050.04**
Grand Total of Expenditures:		**289,754**	

Red Rock Area Community Action
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by Season		Estimated First-Year Savings								Average Estimated First Year Measure Cost and Savings Average per Treated Household						
						Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Pk Day therms	Gas Annual therms	Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Pk Day therms	Gas Annual therms
	Total	Electric	Gas	Cooling	Heating																
OVERALL (Energy Mea)	**39**	**22**	**37**	**22**	**19**	**155,211**	**3.3**		**0.8**		**8,789**	**57**	**5,566**	**3979.77**	**0.151**		**0.044**		**400**	**1.533**	**150**
Shell & Htg. Sys.	39	22	37	22	37	130,448	2.7	3,267	0.0	0	3,267	53	4,953	3344.83	0.123	149	0.000	0	149	1.436	134
Wall Insul.	17	9	17	9	0	25,948	0.82	994	0.00	0	994	13	1,205	1526.34	0.092	110	-	-	110	0.761	71
Open Blown Ceiing Insul.	30	17	30	17	0	21,872	1.13	1,357	0.00	0	1,357	9	849	729.08	0.066	80	-	-	80	0.304	28
Cavity Fill Insul.	6	3	6	3	0	7,247	0.16	188	0.00	0	188	5	457	1207.80	0.052	63	-	-	63	0.817	76
Sloped Attic Insul.	7	3	7	3	0	3,740	0.16	197	0.00	0	197	4	329	534.23	0.054	66	-	-	66	0.505	47
Kneewall Insul.	9	6	9	6	0	1,996	0.09	108	0.00	0	108	1	98	221.78	0.015	18	-	-	18	0.117	11
Infl. Reduction	39	18	33	18	0	10,740	0.11	136	0.00	0	136	3	324	275.37	0.006	8	-	-	8	0.105	10
Found./Crawl. Insul.	14	6	13	6	0	7,400	0.24	288	0.00	0	288	2	161	528.60	0.040	48	-	-	48	0.133	12
Bandjoist Insul.	18	0	18	-	0	1,802	0.00	0	0.00	0	0	1	90	100.08	-	-	-	-	-	0.054	5
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	22	0	22	-	-	49,704	0.00	0	0.00	0	0	15	1,438	2259.28	-	-	-	-	-	0.702	65
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

	Number of Measures by Fuel Type						Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms
	Total	Electric	Gas	Total	Electric	Gas											
Water Heating	27	3	24	40	4	36	20,660	0.0	0.0	197	3.6	614	765.18	0.000	0.001	66	0.149	26
Temp. Reduct.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	20	3	17	20	3	17	60	0.00	0.00	98	0.1	48	3.00	0.000	0.000	33	0.008	3
LF Showerhead	1	0	1	1	0	1	20	0.00	0.00	0	0.0	7	20.00	-	-	-	0.022	7
Faucet Aerator	1	0	1	2	0	2	6	0.00	0.00	0	0.0	3	6.00	-	-	-	0.009	3
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	19	1	18	17	1	16	20 574	0.00	0.00	98	3.4	556	1082.84	0.000	0.002	98	0.190	31
Lighting	18	18		139	139		1,037	0.3	0.6	2,900	-	-	57.61	0.017	0.031	161	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (13W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	16	16		112	112		784	0.23	0.42	2,182	-	-	49.00	0.014	0.026	136	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	9	9		19	19		133	0.05	0.09	453	-	-	14.78	0.005	0.010	50	-	-
CFL (23W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (25W)	1	1		2	2		30	0.01	0.01	65	-	-	30.00	0.007	0.013	65	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL unknown	4	4		6	6		90	0.02	0.04	200	-	-	22.50	0.005	0.010	50	-	-
Refrigerator/Freezer	5	5		6	6		3 066	0.30	0.28	2 425	-	-	613.19	0.060	0.056	485		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	3	3		3	3		1,653	0.14	0.14	1,174	-	-	550.99	0.048	0.045	391	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	3	3		3	3		1,413	0.15	0.14	1,251	-	-	470.99	0.051	0.048	417	-	-

Costs for Measures Without Energy Impacts Installed in 39 Total Households with Spending and/or Energy Impacts:

Total		**29,266**	**750.41**
Unspecified Insul.	21	4,385	208.81
Duct Sealing	0	0	0.00
Duct Insulation	0	0	0.00
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	2	250	125.00
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	0	0	0.00
Water Heater Ventilation	2	175	87.50
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Ventlation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	8	350	43.75
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	36	7 362	204.50
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action)	0	0	0.00
Support	39	16,744	429.33
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**184,477**	**4,730.18**
Grand Total of Expenditures:		**184,477**	

South Central Iowa Community Action Program
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by Season		Estimated First-Year Savings								Average Estimated First Year Measure Cost and Savings Average per Treated Household						
							Electricity					Gas			Electricity				Gas	
	Total	Electric	Gas	Cooling	Heating	Spending on Materials & Labor ($)	Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Pk Day therms	Annual therms	Spending on Materials & Labor ($)	Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Pk Day therms	Annual therms
OVERALL (Energy Mea)	**37**	**29**	**27**	**29**	**27**	**111,311**	**5.0**		**2.7**		**18,211**	**52**	**4,795**	**3008.40**	**0.171**		**0.101**		**628**	**1.908**	**178**
Shell & Htg. Sys.	34	25	26	25	29	90,692	3.9	4,700	1.1	1,646	6,346	49	4,311	2667.42	0.156	188	0.038	57	254	1.884	166
Wall Insul.	10	9	7	9	0	8,314	1.02	1,226	0.00	0	1,226	4	380	831.40	0.113	136	-	-	136	0.618	54
Open Blown Ceiing Insul.	28	20	21	20	2	16,967	1.90	2,297	0.26	391	2,688	18	1,574	605.98	0.095	115	0.132	195	134	0.852	75
Cavity Fill Insul.	13	8	10	8	0	5,286	0.23	280	0.00	0	280	2	211	406.63	0.029	35	-	-	35	0.240	21
Sloped Attic Insul.	5	4	3	4	0	1,333	0.15	180	0.00	0	180	1	95	266.60	0.037	45	-	-	45	0.361	32
Kneewall Insul.	5	4	4	4	0	383	0.02	21	0.00	0	21	0	9	76.56	0.004	5	-	-	5	0.025	2
Infl. Reduction	31	23	24	23	2	8,423	0.21	254	0.10	142	396	4	310	271.70	0.009	11	0.048	71	17	0.147	13
Found./Crawl. Insul.	14	7	9	7	2	7,094	0.37	442	0.64	946	1,388	2	170	506.74	0.052	63	0.321	473	198	0.214	19
Bandjoist Insul.	16	2	14	-	2	1,579	0.00	0	0.03	52	52	0	42	98.70	-	-	0.017	26	26	0.034	3
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	18	0	18	-	-	40,966	0.00	0	0.00	0	0	17	1,519	2275.89	-	-	-	-	-	0.959	84
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	1	1	0	-	1	347	0.00	0	0.08	116	116	0	0	346.50	-	-	0.079	116	116	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

	Total	Electric	Gas	Number of Measures by Fuel Type Total	Electric	Gas		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms
Water Heating	26	12	14	86	38	48	13,429	0.0	0.0	2,379	2.5	485	516.49	0.000	0.004	198	0.180	35
Temp. Reduct.	8	2	6	8	2	6	0	0.00	0.00	176	0.1	49	0.00	0.000	0.000	88	0.024	8
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	5	3	2	5	3	2	17	0.00	0.00	98	0.0	7	3.31	0.000	0.000	33	0.009	3
LF Showerhead	14	7	7	14	7	7	140	0.00	0.02	972	0.2	56	10.00	0.000	0.003	139	0.026	8
Faucet Aerator	20	10	10	44	20	24	72	0.00	0.01	516	0.1	37	3.61	0.000	0.001	52	0.012	4
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	15	6	9	15	6	9	13 200	0.00	0.02	616	2.1	336	880.00	0.000	0.003	103	0.229	37
Lighting	24	24		294	294		608	0.6	1.2	5,987	-	-	25.32	0.026	0.048	249	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (13W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	22	22		258	258		510	0.54	0.99	5,120	-	-	23.20	0.024	0.045	233	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	4	4		35	35		82	0.09	0.16	834	-	-	20.56	0.022	0.040	208	-	-
CFL (23W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (25W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL unknown	1	1		1	1		15	0.00	0.01	33	-	-	15.00	0.004	0.006	33	-	-
Refrigerator/Freezer	9	9		9	9		6 582	0.43	0.40	3 500	-	-	731.33	0.048	0.045	389		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	9	9		9	9		6,582	0.43	0.40	3,500	-	-	731.33	0.048	0.045	389	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 38 Total Households with Spending and/or Energy Impacts:

Total		**22,461**	**591.07**
Unspecified Insul.	12	296	24.63
Duct Sealing	0	0	0.00
Duct Insulation	0	0	0.00
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	14	992	70.86
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	15	1,750	116.67
Water Heater Ventilation	1	40	40.00
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Ventlation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	9	345	38.37
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	30	5 780	192.68
Meter Refrig (no action)	19	0	0.00
Meter Freezer (no action)	7	0	0.00
Support	37	13,218	357.23
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	4	40	10.00

Total Reported Materials, Labor, and Support Costs: **133,771** **3,520.30**

Grand Total of Expenditures: **133,771**

Community Action of South Eastern Iowa
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by Season		Estimated First-Year Savings								Average Estimated First Year Measure Cost and Savings Average per Treated Household						
						Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Pk Day therms	Gas Annual therms	Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Pk Day therms	Gas Annual therms
	Total	Electric	Gas	Cooling	Heating																
OVERALL (Energy Mea)	**72**	**60**	**51**	**60**	**40**	**254,442**	**14.2**		**2.4**		**26,293**	**147**	**12,892**	**3533.92**	**0.237**		**0.061**		**438**	**2.873**	**253**
Shell & Htg. Sys.	71	55	51	55	52	219,815	13.2	15,892	1.0	1,409	17,301	139	11,743	3095.99	0.240	289	0.019	27	315	2.735	230
Wall Insul.	51	40	39	40	0	47,901	5.40	6,514	0.00	0	6,514	37	3,082	939.23	0.135	163	-	-	163	0.939	79
Open Blown Ceiing Insul.	62	48	43	48	1	48,997	5.25	6,334	0.26	373	6,707	34	2,841	790.28	0.109	132	0.264	373	140	0.785	66
Cavity Fill Insul.	5	2	4	2	0	1,921	0.17	208	0.00	0	208	1	113	384.14	0.086	104	-	-	104	0.336	28
Sloped Attic Insul.	23	19	17	19	0	2,938	0.98	1,187	0.00	0	1,187	9	755	127.74	0.052	62	-	-	62	0.527	44
Kneewall Insul.	14	12	10	12	1	9,534	0.27	326	0.52	727	1,053	1	100	681.00	0.023	27	0.516	727	88	0.119	10
Infl. Reduction	49	40	32	40	1	14,318	0.38	456	0.02	23	478	3	224	292.19	0.009	11	0.016	23	12	0.083	7
Found./Crawl. Insul.	35	13	27	12	1	14,042	0.72	868	0.18	260	1,128	5	439	401.20	0.060	72	0.184	260	87	0.193	16
Bandjoist Insul.	30	1	29	-	1	4,048	0.00	0	0.02	25	25	2	210	134.94	-	-	0.018	25	25	0.086	7
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	35	0	35	-	-	76,117	0.00	0	0.00	0	0	47	3,979	2174.76	-	-	-	-	-	1.350	114
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

	Number of Measures by Fuel Type																			
	Total	Electric	Gas	Total	Electric	Gas		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms
Water Heating	29	0	29	28	0	28	28,081	0.0	0.0	0	7.0	1,149	968.31	-	-	-	0.243	40
Temp. Reduct.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
LF Showerhead	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Faucet Aerator	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	29	0	29	28	0	28	28 081	0.00	0.00	0	7.0	1 149	968.31	-	-	-	0.243	40
Lighting	36	36		252	252		353	0.5	1.0	5,138	-	-	9.81	0.015	0.028	143	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	3	3		18	18		44	0.02	0.04	226	-	-	14.70	0.008	0.015	75	-	-
CFL (13W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	31	31		209	209		232	0.43	0.79	4,088	-	-	7.48	0.014	0.026	132	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	1	1		1	1		2	0.00	0.00	24	-	-	1.91	0.003	0.005	24	-	-
CFL (23W)	9	9		18	18		29	0.06	0.12	600	-	-	3.18	0.007	0.013	67	-	-
CFL (25W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL unknown	5	5		6	6		46	0.02	0.04	200	-	-	9.28	0.004	0.008	40	-	-
Refrigerator/Freezer	10	10		10	10		6 193	0.47	0.44	3 853	-	-	619.30	0.047	0.044	385		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	10	10		10	10		6,193	0.47	0.44	3,853	-	-	619.30	0.047	0.044	385	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-

Costs for Measures Without Energy Impacts Installed in 72 Total Households with Spending and/or Energy Impacts:

Total		**26,321**	**365.57**
Unspecified Insul.	0	0	0.00
Duct Sealing	0	0	0.00
Duct Insulation	0	0	0.00
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	0	0	0.00
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	1	100	100.00
Water Heater Ventilation	0	0	0.00
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Ventlation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	0	0	0.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action)	0	0	0.00
Support	72	26,221	364.18
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**280,763**	**3,899.49**
Grand Total of Expenditures:		**280,763**	

Southern Iowa Economic Development Authority
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by Season		Estimated First-Year Savings								Average Estimated First Year Measure Cost and Savings Average per Treated Household						
							Electricity					Gas			Electricity				Gas	
	Total	Electric	Gas	Cooling	Heating	Spending on Materials & Labor ($)	Summer kW	kWh	Winter kW	kWh	Annual kWh	Pk Day therms	Annual therms	Spending on Materials & Labor ($)	Summer kW	kWh	Winter kW	kWh	Annual kWh	Pk Day therms	Annual therms
OVERALL (Energy Mea)	**55**	**54**	**35**	**54**	**41**	**191,197**	**10.8**		**6.9**		**32,452**	**85**	**7,908**	**3476.30**	**0.200**		**0.168**		**601**	**2.442**	**226**
Shell & Htg. Sys.	50	46	35	46	41	158,914	9.4	11,282	4.8	7,021	18,302	81	7,136	3178.27	0.203	245	0.116	171	398	2.317	204
Wall Insul.	34	32	24	32	3	37,254	3.68	4,441	1.92	2,829	7,270	24	2,074	1095.71	0.115	139	0.639	943	227	0.982	86
Open Blown Ceiing Insul.	44	42	31	42	5	26,958	3.67	4,423	1.52	2,246	6,670	15	1,311	612.68	0.087	105	0.305	449	159	0.480	42
Cavity Fill Insul.	7	7	6	7	0	3,850	0.31	375	0.00	0	375	2	219	550.00	0.044	54	-	-	54	0.415	37
Sloped Attic Insul.	17	16	12	16	2	5,900	0.83	997	0.77	1,137	2,134	6	488	347.06	0.052	62	0.385	568	133	0.462	41
Kneewall Insul.	2	2	1	2	0	2,714	0.01	8	0.00	0	8	0	3	1357.00	0.003	4	-	-	4	0.036	3
Infl. Reduction	48	35	33	35	6	11,428	0.25	297	0.35	511	808	4	363	238.08	0.007	8	0.058	85	23	0.125	11
Found./Crawl. Insul.	18	12	14	12	1	5,162	0.61	740	0.13	195	935	2	163	286.78	0.051	62	0.132	195	78	0.132	12
Bandjoist Insul.	27	3	24	-	3	3,853	0.00	0	0.07	104	104	1	106	142.70	-	-	0.023	35	35	0.050	4
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	23	0	23	-	-	61,795	0.00	0	0.00	0	0	27	2,409	2686.74	-	-	-	-	-	1.190	105
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

				Number of Measures by Fuel Type																
	Total	Electric	Gas	Total	Electric	Gas		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms
Water Heating	35	11	24	85	27	58	19,157	0.0	0.0	1,083	4.4	772	547.34	0.000	0.001	98	0.182	32
Temp. Reduct.	5	3	2	5	3	2	0	0.00	0.00	264	0.0	17	0.00	0.000	0.000	88	0.024	8
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	19	7	12	19	7	12	113	0.00	0.00	238	0.1	41	5.95	0.000	0.000	34	0.010	3
LF Showerhead	3	1	2	3	1	2	30	0.00	0.00	151	0.1	16	10.00	0.000	0.003	151	0.027	8
Faucet Aerator	22	8	14	43	16	27	129	0.00	0.01	429	0.1	43	5.86	0.000	0.001	54	0.010	3
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	17	0	17	15	0	15	18 885	0.00	0.00	0	4.0	655	1110.88	-	-	-	0.236	39
Lighting	33	33		400	400		1,534	0.8	1.5	7,656	-	-	46.48	0.024	0.045	232	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	4	4		52	52		223	0.07	0.13	653	-	-	55.75	0.017	0.032	163	-	-
CFL (13W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	29	29		345	345		1,301	0.73	1.34	6,922	-	-	44.86	0.025	0.046	239	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	1	1		3	3		10	0.01	0.02	81	-	-	10.00	0.008	0.016	81	-	-
CFL (23W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (25W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator/Freezer	15	15		14	14		11 592	0.67	0.62	5 411	-	-	772.80	0.044	0.041	361		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	14	14		13	13		10,992	0.63	0.59	5,109	-	-	785.14	0.045	0.042	365	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	1	1		1	1		600	0.04	0.03	302	-	-	600.00	0.037	0.035	302	-	-

Costs for Measures Without Energy Impacts Installed in 58 Total Households with Spending and/or Energy Impacts:

Total		**19,088**	**329.10**
Unspecified Insul.	9	1,727	191.89
Duct Sealing	2	115	57.50
Duct Insulation	0	0	0.00
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	10	1,175	117.50
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	27	3,822	141.56
Water Heater Ventilation	13	1,579	121.46
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Ventlation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	5	374	74.80
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	49	10 296	210.12
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action)	0	0	0.00
Support	0	0	0.00
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**210,285**	**3,625.60**
Grand Total of Expenditures:		**210,285**	

Upper Des Moines Opportunity
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by Season		Estimated First-Year Savings								Average Estimated First Year Measure Cost and Savings Average per Treated Household						
						Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Pk Day therms	Gas Annual therms	Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Pk Day therms	Gas Annual therms
	Total	Electric	Gas	Cooling	Heating															
OVERALL (Energy Mea)	**99**	**63**	**81**	**63**	**61**	**366,176**	**11.2**		**6.4**		**32,175**	**184**	**18,634**	**3698.75**	**0.177**		**0.105**		**511**	**2.268**	**230**
Shell & Htg. Sys.	97	58	81	58	83	320,866	9.8	11,878	4.4	7,139	19,017	175	17,034	3307.90	0.170	205	0.053	86	328	2.160	210
Wall Insul.	70	46	58	46	1	89,834	4.24	5,116	0.52	845	5,960	51	4,966	1283.35	0.092	111	0.518	845	130	0.879	86
Open Blown Ceiing Insul.	91	56	76	56	2	55,518	3.65	4,403	2.35	3,835	8,237	34	3,319	610.08	0.065	79	1.175	1,917	147	0.449	44
Cavity Fill Insul.	37	23	27	23	2	23,297	0.83	997	1.10	1,801	2,798	12	1,203	629.64	0.036	43	0.552	900	122	0.458	45
Sloped Attic Insul.	27	15	23	15	1	11,301	0.44	528	0.32	524	1,052	13	1,289	418.54	0.029	35	0.321	524	70	0.576	56
Kneewall Insul.	21	11	17	11	0	4,752	0.16	193	0.00	0	193	4	393	226.30	0.015	18	-	-	18	0.237	23
Infl. Reduction	76	34	74	34	2	19,189	0.30	360	0.08	135	496	6	621	252.49	0.009	11	0.042	68	15	0.086	8
Found./Crawl. Insul.	37	6	34	6	0	13,328	0.23	281	0.00	0	281	4	354	360.21	0.039	47	-	-	47	0.107	10
Bandjoist Insul.	47	0	47	-	0	3,149	0.00	0	0.00	0	0	2	206	67.00	-	-	-	-	-	0.045	4
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	42	0	42	-	-	100,499	0.00	0	0.00	0	0	48	4,684	2392.83	-	-	-	-	-	1.146	112
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

	Total	Electric	Gas	Number of Measures by Fuel Type Total	Electric	Gas		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms
Water Heating	79	19	60	130	25	105	33,870	0.0	0.0	1,254	8.8	1,600	428.74	0.000	0.000	66	0.146	27
Temp. Reduct.	15	4	11	15	4	11	0	0.00	0.00	353	0.3	101	0.00	0.000	0.000	88	0.026	9
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	78	18	60	78	18	60	468	0.00	0.00	594	0.6	220	6.00	0.000	0.000	33	0.011	4
LF Showerhead	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Faucet Aerator	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	37	3	34	37	3	34	33 402	0.00	0.01	308	7.8	1 279	902.76	0.000	0.003	103	0.231	38
Lighting	61	61		608	608		4,256	0.9	1.6	8,155	-	-	69.77	0.014	0.026	134	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	55	55		536	536		3,752	0.71	1.31	6,752	-	-	68.22	0.013	0.024	123	-	-
CFL (13W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	11	11		72	72		504	0.15	0.27	1,403	-	-	45.82	0.013	0.025	128	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (23W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (25W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator/Freezer	10	10		9	9		7 183	0.46	0.43	3 748	-	-	718.33	0.046	0.043	375		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	9	9		8	8		6,815	0.41	0.38	3,331	-	-	757.21	0.046	0.043	370	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	1	1		1	1		368	0.05	0.05	417	-	-	368.39	0.051	0.048	417	-	-

Costs for Measures Without Energy Impacts Installed in 99 Total Households with Spending and/or Energy Impacts:

Total		**64,595**	**652.47**
Unspecified Insul.	33	2,619	79.35
Duct Sealing	0	0	0.00
Duct Insulation	1	55	55.00
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	24	2,975	123.96
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	37	5,260	142.16
Water Heater Ventilation	30	3,665	122.15
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Ventlation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	13	531	40.81
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	52	6 838	131.51
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action)	0	0	0.00
Support	99	42,653	430.83
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**430,771**	**4,351.22**
Grand Total of Expenditures:		**430,771**	

West Central Development Corporation
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by Season		Estimated First-Year Savings							Average Estimated First Year Measure Cost and Savings Average per Treated Household						
							Electricity					Gas		Electricity					Gas
	Total	Electric	Gas	Cooling	Heating	Spending on Materials & Labor ($)	Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Pk Day therms	Annual therms	Spending on Materials & Labor ($)	Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Pk Day therms	Annual therms
OVERALL (Energy Mea)	**72**	**56**	**63**	**56**	**51**	**247,678**	**13.1**		**5.7**		**31,093**	**122**	**11,601**	**3439.98**	**0.234**		**0.111**		**555**	**1.934**	**184**
Shell & Htg. Sys.	69	52	60	52	65	205,297	12.0	14,464	3.8	5,557	20,020	112	9,616	2975.32	0.231	278	0.059	85	385	1.860	160
Wall Insul.	39	30	35	30	1	40,469	4.30	5,187	0.83	1,201	6,388	28	2,379	1037.66	0.143	173	0.832	1,201	213	0.789	68
Open Blown Ceiing Insul.	65	50	56	50	5	37,513	4.97	5,989	0.66	955	6,945	16	1,397	577.13	0.099	120	0.132	191	139	0.289	25
Cavity Fill Insul.	10	7	7	7	1	5,504	0.41	492	0.93	1,342	1,834	4	304	550.36	0.058	70	0.930	1,342	262	0.503	43
Sloped Attic Insul.	28	19	25	19	2	12,573	1.48	1,788	0.34	487	2,276	13	1,151	449.04	0.078	94	0.169	244	120	0.534	46
Kneewall Insul.	18	13	14	13	2	3,121	0.26	316	0.23	334	650	2	195	173.39	0.020	24	0.116	167	50	0.161	14
Infl. Reduction	69	31	60	31	5	17,797	0.41	496	0.37	540	1,037	8	669	257.93	0.013	16	0.075	108	33	0.129	11
Found./Crawl. Insul.	22	5	19	3	2	4,320	0.16	195	0.41	588	783	1	113	196.38	0.054	65	0.204	294	157	0.069	6
Bandjoist Insul.	27	0	27	-	0	1,824	0.00	0	0.00	0	0	1	101	67.55	-	-	-	-	-	0.043	4
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	30	0	30	-	-	79,779	0.00	0	0.00	0	0	38	3,308	2659.28	-	-	-	-	-	1.279	110
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	1	1	0	-	1	2,398	0.00	0	0.08	109	109	0	0	2398.19	-	-	0.075	109	109	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

	Total	Electric	Gas	Number of Measures by Fuel Type Total	Electric	Gas		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms
Water Heating	69	11	58	200	26	174	33,737	0.0	0.0	983	10.3	1,985	488.95	0.000	0.001	89	0.177	34
Temp. Reduct.	13	2	11	13	2	11	0	0.00	0.00	176	0.3	118	0.00	0.000	0.000	88	0.031	11
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	52	9	43	52	9	43	291	0.00	0.00	312	0.5	172	5.60	0.000	0.000	35	0.012	4
LF Showerhead	22	1	21	24	2	22	240	0.00	0.00	151	0.7	200	10.91	0.000	0.003	151	0.031	10
Faucet Aerator	54	7	47	83	13	70	249	0.00	0.01	343	0.4	132	4.62	0.000	0.001	49	0.009	3
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	30	0	30	28	0	28	32 957	0.00	0.00	0	8.4	1 363	1098.56	-	-	-	0.279	45
Lighting	50	50		565	565		4,124	0.8	1.6	7,999	-	-	82.48	0.017	0.031	160	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	1	1		4	4		28	0.01	0.01	54	-	-	28.00	0.006	0.010	54	-	-
CFL (11W)	36	36		239	239		1,660	0.32	0.59	3,043	-	-	46.11	0.009	0.016	85	-	-
CFL (13W)	39	39		255	255		1,767	0.32	0.59	3,027	-	-	45.32	0.008	0.015	78	-	-
CFL (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	1	1		4	4		28	0.01	0.02	78	-	-	28.00	0.008	0.015	78	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	15	15		34	34		238	0.09	0.16	813	-	-	15.87	0.006	0.011	54	-	-
CFL (23W)	4	4		4	4		28	0.01	0.03	142	-	-	7.00	0.004	0.007	36	-	-
CFL (25W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL unknown	16	16		25	25		375	0.09	0.16	842	-	-	23.44	0.006	0.010	53	-	-
Refrigerator/Freezer	5	5		5	5		4 520	0.26	0.24	2 091	-	-	904.00	0.051	0.048	418		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	5	5		4	4		3,920	0.21	0.20	1,709	-	-	784.00	0.042	0.039	342	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	1	1		1	1		600	0.05	0.04	382	-	-	600.00	0.047	0.044	382	-	-

Costs for Measures Without Energy Impacts Installed in 73 Total Households with Spending and/or Energy Impacts:

Total		**63,100**	**864.39**
Unspecified Insul.	45	5,793	128.74
Duct Sealing	0	0	0.00
Duct Insulation	1	25	25.20
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	30	3,820	127.33
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	30	4,292	143.05
Water Heater Ventilation	32	3,590	112.20
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Ventlation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	20	848	42.42
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	68	12 938	190.26
Meter Refrig (no action)	59	0	0.00
Meter Freezer (no action)	29	0	0.00
Support	66	31,794	481.72
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**310,779**	**4,257.24**
Grand Total of Expenditures:		**310,779**	

Community Action Agency of Siouxland
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by Season		Estimated First-Year Savings								Average Estimated First Year Measure Cost and Savings Average per Treated Household						
							Electricity					Gas			Electricity				Gas	
	Total	Electric	Gas	Cooling	Heating	Spending on Materials & Labor ($)	Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Pk Day therms	Annual therms	Spending on Materials & Labor ($)	Summer kW	Summer kWh	Winter kW	Winter kWh	Annual kWh	Pk Day therms	Annual therms
OVERALL (Energy Mea)	**60**	**55**	**54**	**55**	**52**	**207,223**	**10.1**		**5.2**		**38,381**	**126**	**12,171**	**3453.72**	**0.184**		**0.100**		**698**	**2.325**	**225**
Shell & Htg. Sys.	58	45	53	45	54	172,389	7.2	8,719	0.6	913	9,632	120	10,909	2972.22	0.161	194	0.011	17	214	2.256	206
Wall Insul.	31	25	28	25	0	26,231	2.76	3,324	0.00	0	3,324	23	2,067	846.16	0.110	133	-	-	133	0.809	74
Open Blown Ceiing Insul.	49	39	44	39	1	39,561	3.84	4,629	0.12	177	4,806	31	2,844	807.37	0.098	119	0.116	177	123	0.708	65
Cavity Fill Insul.	7	3	7	3	0	3,701	0.16	199	0.00	0	199	6	544	528.71	0.055	66	-	-	66	0.851	78
Sloped Attic Insul.	10	6	9	6	0	1,873	0.20	241	0.00	0	241	4	408	187.30	0.033	40	-	-	40	0.497	45
Kneewall Insul.	3	3	3	3	0	604	0.07	86	0.00	0	86	1	100	201.33	0.024	29	-	-	29	0.364	33
Infl. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	14	4	12	4	1	9,421	0.20	240	0.48	736	976	4	360	672.93	0.050	60	0.481	736	244	0.329	30
Bandjoist Insul.	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	35	0	35	-	-	90,998	0.00	0	0.00	0	0	50	4,587	2599.94	-	-	-	-	-	1.436	131
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-

	Number of Measures by Fuel Type																		
	Total	Electric	Gas	Total	Electric	Gas		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms		Summer kW	Winter kW	Annual kWh	Pk Day therms	Annual therms
Water Heating	58	14	44	0	0	0	19,029	0.0	0.0	2,416	6.0	1,262	328.09	0.000	0.003	173	0.136	29
Temp. Reduct.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Pipe Insul.	51	13	38	0	0	0	297	0.00	0.00	463	0.4	145	5.82	0.000	0.000	36	0.011	4
LF Showerhead	47	9	38	0	0	0	480	0.00	0.03	1,356	1.1	352	10.21	0.000	0.003	151	0.030	9
Faucet Aerator	33	6	27	0	0	0	186	0.00	0.01	302	0.3	95	5.64	0.000	0.001	50	0.011	4
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	17	3	14	0	0	0	18 066	0.00	0.01	295	4.1	669	1062.71	0.000	0.002	98	0.293	48
Lighting	51	51		0	0		4,774	2.0	3.8	19,432	-	-	93.61	0.040	0.074	381	-	-
CFL (5W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (7W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (9W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (11W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (13W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (15W)	26	26		0	0		1,000	0.29	0.54	2,806	-	-	38.46	0.011	0.021	108	-	-
CFL (18W)	0	0		0	0		- 0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (20W)	19	19		0	0		637	0.23	0.42	2,167	-	-	33.53	0.012	0.022	114	-	-
CFL (23W)	48	48		0	0		2,897	1.46	2.70	13,925	-	-	60.35	0.030	0.056	290	-	-
CFL (25W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL (30W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
CFL unknown	10	10		0	0		240	0.06	0.10	533	-	-	24.00	0.006	0.010	53	-	-
Refrigerator/Freezer	18	18		0	0		11 031	0.85	0.79	6 902	-	-	612.84	0.047	0.044	383		
Refrigerator Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Refrigerator Exchange	16	16		0	0		10,091	0.75	0.70	6,068	-	-	630.69	0.047	0.044	379	-	-
Freezer Removal	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-
Freezer Exchange	2	2		0	0		940	0.10	0.10	834	-	-	470.00	0.051	0.048	417	-	-

Costs for Measures Without Energy Impacts Installed in 61 Total Households with Spending and/or Energy Impacts:

Total		**20,942**	**343.31**
Unspecified Insul.	0	0	0.00
Duct Sealing	0	0	0.00
Duct Insulation	0	0	0.00
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	1	110	110.00
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	0	0	0.00
Unspecified Utility Meas.	0	0	0.00
CO Detector	0	0	0.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	0	0	0.00
Water Heater Ventilation	1	100	100.00
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Vent lation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	0	0	0.00
Meter Refrig (no action)	37	0	0.00
Meter Freezer (no action)	22	0	0.00
Support	61	20,717	339.62
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	1	15	15.00
Total Reported Materials, Labor, and Support Costs:		**228,165**	**3,740.41**
Grand Total of Expenditures:		**228,165**	

Polk County Development Services
Calendar Year 2013
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by Season		Estimated First-Year Savings								Average Estimated First Year Measure Cost and Savings Average per Treated Household						
						Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Pk Day therms	Gas Annual therms	Spending on Materials & Labor ($)	Electricity Summer kW	Electricity Summer kWh	Electricity Winter kW	Electricity Winter kWh	Electricity Annual kWh	Gas Pk Day therms	Gas Annual therms
	Total	Electric	Gas	Cooling	Heating																
OVERALL (Energy Mea)	**107**	**107**	**103**	**107**	**102**	**432,845**	**20.4**		**9.9**		**64,982**	**208**	**19,636**	**4045.28**	**0.190**		**0.097**		**607**	**2.023**	**191**
Shell & Htg. Sys.	103	82	102	82	103	338,684	16.0	19,309	3.2	5,031	24,340	197	17,647	3288.19	0.195	235	0.031	49	297	1.932	173
Wall Insul.	66	61	66	61	0	83,130	6.84	8,254	0.00	0	8,254	48	4,279	1259.55	0.112	135	-	-	135	0.726	65
Open Blown Ceiing Insul.	83	78	82	78	1	78,956	7.29	8,786	3.01	4,708	13,494	62	5,582	951.27	0.093	113	3.015	4,708	173	0.760	68
Cavity Fill Insul.	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Sloped Attic Insul.	21	19	21	19	0	8,422	0.70	840	0.00	0	840	7	607	401.05	0.037	44	-	-	44	0.325	29
Kneewall Insul.	32	32	31	32	1	9,001	0.71	861	0.04	67	927	7	655	281.28	0.022	27	0.043	67	29	0.234	21
Infl. Reduction	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	44	10	43	10	1	43,605	0.47	568	0.16	256	824	15	1,379	991.02	0.047	57	0.164	256	82	0.353	32
Bandjoist Insul.	6	0	6	-	0	515	0.00	0	0.00	0	0	0	15	85.83	-	-	-	-	-	0.028	3
Exhaust Ventilation	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Condensing Htg Sys Repl	59	0	59	-	-	115,055	0.00	0	0.00	0	0	57	5,130	1950.09	-	-	-	-	-	0.974	87
Non-Cond Htg Sys Repl	0	0	0	-	-	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
	Total	Electric	Gas	Number of Measures by Fuel Type Total	Electric	Gas		Summer kW		Winter kW	Annual kWh	Pk Day therms	Annual therms		Summer kW		Winter kW		Annual kWh	Pk Day therms	Annual therms
Water Heating	103	17	86	185	26	159	68,946	0.0		0.0	1,298	11.3	1,989	669.38	0.000		0.001		76	0.132	23
Temp. Reduct.	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
WH Wrap	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Pipe Insul.	90	17	73	90	17	73	546	0.00		0.00	561	0.6	201	6.07	0.000		0.000		33	0.008	3
LF Showerhead	8	2	6	8	2	6	80	0.00		0.01	268	0.1	38	10.00	0.000		0.003		134	0.021	6
Faucet Aerator	15	2	13	27	3	24	90	0.00		0.00	75	0.1	31	6.00	0.000		0.001		38	0.008	2
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00		0.00	0	0.0	0	0.00	-		-		-	-	-
Hi-Eff Wtr Htr Repl.	63	4	59	60	4	56	68 230	0.00		0.01	393	10.5	1 719	1083.01	0.000		0.002		98	0.179	29
Lighting	98	98		1,107	1,107		7,749	2.8		5.1	26,402	-	-	79.07	0.028		0.052		269	-	-
CFL (5W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (7W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (9W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (11W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (13W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (14W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (15W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (18W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (20W)	98	98		1,107	1,107		7,749	2.77		5.12	26,402	-	-	79.07	0.028		0.052		269	-	-
CFL (23W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (25W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL (30W)	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
CFL unknown	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
Refrigerator/Freezer	32	32		33	33		17 466	1.59		1.49	12 942	-	-	545.81	0.050		0.047		404		
Refrigerator Removal	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
Refrigerator Exchange	32	32		33	33		17,466	1.59		1.49	12,942	-	-	545.81	0.050		0.047		404	-	-
Freezer Removal	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-
Freezer Exchange	0	0		0	0		0	0.00		0.00	0	-	-	0.00	-		-		-	-	-

Costs for Measures Without Energy Impacts Installed in 108 Total Households with Spending and/or Energy Impacts:

Total		**66,032**	**611.41**
Unspecified Insul.	0	0	0.00
Duct Sealing	0	0	0.00
Duct Insulation	1	150	150.00
Damming Material	0	0	0.00
Htg. Sys. Tune & Clean	19	2,177	114.58
Htg. Sys./WH Other	0	0	0.00
Air Conditioning Work	0	0	0.00
Water Heater Repair	0	0	0.00
Refrigerator Coil Clean	0	0	0.00
Waterbed Mattress Pad	0	0	0.00
Programmable Tstat	9	870	96.67
Unspecified Utility Meas.	0	0	0.00
CO Detector	3	120	40.00
Smoke Detector	0	0	0.00
Fuses	0	0	0.00
Htg Sys Safety Check	0	0	0.00
Htg Sys Ventilation	42	5,574	132.72
Water Heater Ventilation	27	3,036	112.44
Bathroom Ventilation	0	0	0.00
Dryer Exhaust Vent lation	0	0	0.00
Other Exhaust Ventilation	0	0	0.00
Health/Safety Repairs	0	0	0.00
Health/Safety Other	0	0	0.00
Consumables	0	0	0.00
General Repairs	1	40	40.00
Meter Refrig (no action)	0	0	0.00
Meter Freezer (no action)	0	0	0.00
Support	91	54,065	594.12
Transportation Allowance	0	0	0.00
Landlord Contr Misc	0	0	0.00
Landlord Contr Furnace	0	0	0.00
Landlord Contr DHW	0	0	0.00
Client Contr (Any)	0	0	0.00
Lead Safe Work	0	0	0.00
Unspecifed	0	0	0.00
Total Reported Materials, Labor, and Support Costs:		**498,877**	**4,619.23**
Grand Total of Expenditures:		**498,877**	

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APPENDIX A -- CLIENT CHARACTERISTICS

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Household characteristics										
Quarterly gross income	$3,649	$3,618	$3,727	$3,911	$4,002	$4,190	$4,130	$4,344	$4,355	$4,286
Average members	2.8	2.8	2.8	2.9	2.8	2.8	2.9	2.9	2.8	2.7
Percentage of households with:										
Elderly	36.3	35.2	32.3	32.6	31.5	34.2	24.0	29.1	29.4	30.8
Handicapped	42.0	42.7	42.5	43.1	42.7	35.7	25.4	32.9	30.1	32.6
Young children	9.7	18.3	15.6	18.7	21.5	21.5	18.6	25.2	21.9	20.1
Housing type (%)										
Single family home	91.2	91.0	90.3	90.7	87.7	87.9	82.6	89.6	87.3	84.8
Mobile home	8.1	7.2	7.7	7.8	7.5	9.9	7.6	10.0	10.2	11.9
Duplex	0.7	0.9	2.1	0.6	0.1	0.3	0.3	0.1	0.7	3.2
Three+ unit apartment	0.2	0.8	0.0	0.4	1.3	1.0	6.8	0.3	1.8	0.1
Rent a room	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unknown/other	0.0	0.0	0.0	0.6	3.5	1.0	2.6	0.0	0.0	0.0
Heating system type (%)										
Natural gas	84.0	84.4	84.0	84.3	85.8	85.6	82.7	81.0	80.8	80.3
Propane	12.2	10.7	11.7	11.4	10.1	9.3	11.9	12.9	13.3	12.3
Fuel oil	1.9	1.4	1.0	0.6	0.7	0.3	0.8	0.8	0.8	0.9
Electricity	1.9	3.4	3.3	3.5	3.3	4.7	4.5	5.4	5.1	6.4
Other	0.2	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.2
Air conditioning type (%)										
Central	48.4	47.8	49.8	56.3	52.5	55.3	54.1	58.7	57.3	60.2
Room	42.4	39.8	37.4	8.7	34.6	32.5	31.4	27.8	30.4	29.4
None or Missing Data	9.4	12.4	12.8	35.0	12.8	12.2	14.5	13.6	12.3	10.4
Blower door readings (average cfm50)										
Pre	3,733	3,723	3,856	3,639	3,608	3,374	3,281	3,294	3,454	3,281
Post	2,355	2,310	2,389	2,216	2,215	2,120	2,040	2,054	2,139	2,053