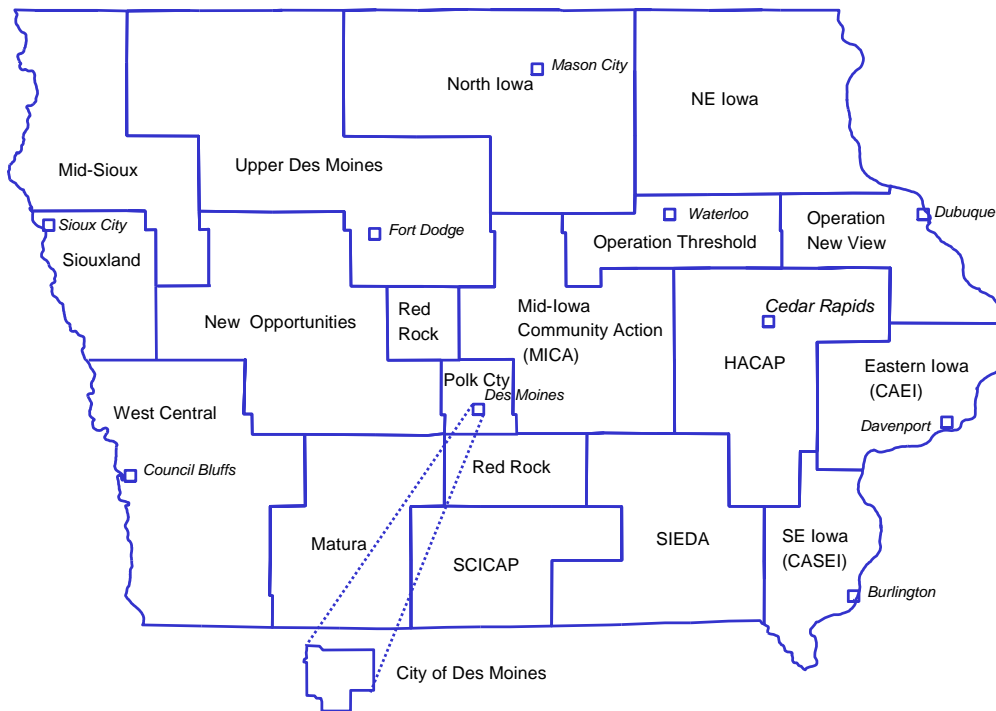


REPORT ON THE IMPACTS AND COSTS OF THE IOWA LOW-INCOME WEATHERIZATION PROGRAM -- Calendar Year 2006

July 20, 2007

Iowa Community Action Agencies



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PROGRAM**

Calendar Year 2006

July 20, 2007

**Prepared for the
Iowa Statewide Low-Income Collaborative**

**by
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1. EXECUTIVE SUMMARY

This report summarizes state and utility low-income weatherization program activity for dwellings weatherized to completion during calendar year 2006. The report includes state, utility, and agency summaries of calendar year 2006 spending and impacts by measure, end-use, and fuel. The base data consisted 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 Aquila Networks – PNG, Interstate Power and Light Company, and MidAmerican Energy.

We estimated energy and coincident demand impacts for the program participants by adjustment factors to the engineering estimates that were developed for the 1992 program¹ and updated for the 2002 program². The gas and electric adjustment factors were derived from a series of fuel consumption analyses, including the 1992, 1994, and 1995 program participants. Gas adjustment factors were extended based upon fuel consumption analyses for completions during the period April, 1996 through March, 1997, September, 1998 through August, 1999, January through December, 2000 and 2001, August 2001 to August 2002, and September 2002 to September 2003, and calendar years 2004, 2005, and 2006. Refrigeration measure impacts were adjusted using the results of a limited electric fuel consumption analysis of January 2002 through December 2002 weatherization clients.

Program Costs and Impacts

The WAP program installed measures in 2,145 dwellings during calendar year (CY) 2006: measures with direct energy savings were installed in all but one of these. Program expenditures for labor, materials, and support increased by 12.4% over the previous year, totaling \$15,034,395. The average expenditure was \$7,009 per dwelling compared with \$6,318 the previous year.

The major measures installed by the program in 2006 are essentially unchanged from the 2005, however over the past several years the program has seen attrition to the point of virtually zero installations of several minor measures, including water heater blankets and turndowns, capsylite bulbs (now fully replaced by installations of compact fluorescent lighting), and waterbed mattress pads.

First-year savings included 475,837 therms, 2,776,170 kWh electricity, 60,496 gallons of propane, 3,639 gallons of fuel oil. First-year peak demand savings totaled 4,915 therms, 453 kW summer demand, and 589 kW winter demand.

On average, the program saved 1,298 kWh of electricity for 2,119 dwellings with electricity impacts. The program saved an average of 261 therms of natural gas for 1,826 dwellings with gas impacts. In addition, the program delivered first-year savings of 241 gallons of propane in 251 dwellings with propane impacts, and 173 gallons of fuel oil in 21 dwellings with fuel oil impacts.

¹ see the following Wisconsin Energy Conservation Corporation reports for a full description of the estimation routines and derivation of the adjustment factors:

- Estimated Low-Income Program Impacts in Iowa, June 14, 1993;
- An Evaluation of Iowa's Low-Income Weatherization Efforts, August 8, 1994; and
- An Evaluation of the 1995 Iowa Low-Income Collaborative Weatherization Program, November 5, 1996.

² Report on Impacts and Costs of the Iowa Low-Income Weatherization Program – Calendar Year 2002. October 31, 2003. Dalhoff and Associates.

First-year client energy cost savings totaled \$931,643, averaging \$435 for dwellings receiving energy savings measures for the CY 2006 program.

Utility Expenditures and Impacts

Utility funding totaled \$4,608,766, and averaged \$2,859 for the 1,612 dwellings that received utility-funded measures (75% of all dwellings treated by the program).

These measures were responsible for 51% of all energy savings for electricity and 52% of gas savings achieved by the program. Utility-funded measures saved an average of 892 kWh of electricity for the 1,588 dwellings with utility-funded electricity measures, and 203 therms of natural gas for the 1,227 dwellings with utility-funded natural gas measures. Utility-funded measures installed in 2006 reduced peak electricity demand by 236 kW in the summer and 273 kW in the winter, and provided 2,572 peak-day therms of gas savings.

Utility-funded measures yielded first-year client bill savings of \$446,069, averaging \$277 per dwelling that received utility-funded measures, including \$92 per dwelling for utility-funded electricity measures, and \$244 for dwellings receiving gas measures.

Summary of Program Impacts and Costs

Overall Program Impacts

	Electricity (kWh and kW)			Natural Gas (therms)			Propane (gals)	Fuel Oil (gals)
	State	DCAA	Utility	State	DCAA	Utility	State	State
Energy	2,776,170	1,386,259	1,389,911	475,837	226,694	249,143	60,496	3,639
Summer Demand	453	217	236	NA	NA	NA	NA	NA
Winter Demand	589	316	273	4,915	2343	2,572	NA	NA

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

	Electricity (kWh)			Natural Gas (therms)			Propane (gals)	Fuel Oil (gals)
	State	CDA A	Utility	State	DCAA	Utility	State	State
Energy	1,298	659	892	261	128	203	241	173
Summer Demand	0.213	0.110	0.165	NA	NA	NA	NA	NA
Winter Demand	0.275	0.144	0.183	2.692	1.328	2.098	NA	NA

Expenditures and Client Fuel Bill Savings

Totals	State	DCAA	Utility	Averages	State	DCAA	Utility
Expenditures	\$15,034,517	\$10,425,751	\$4,608,766	Expenditures	\$7,009	\$4,918	\$2,859
Client Fuel Savings	\$931,643	\$485,574	\$446,069	Client Fuel Savings	\$435	\$229	\$277

Note: average impacts are not additive, i.e., Utility and DCAA do not total to State

Fuel Consumption Analysis Results

The natural gas savings reported herein have been adjusted at the agency level. The adjustment factors were derived from a fuel consumption analysis of recent program participants. The factors were applied to the estimated 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. The fuel consumption showed 272 therms \pm 17 at 90% confidence, and 24.6% savings \pm 1.4% at 90% confidence for natural gas measures installed in CY 2006.

The methodology used this year included enhanced matching of treatment and comparison groups, weighting our large comparison group according to housing type, home ownership (own/rent), number of individuals in the household, and baseline fuel consumption. This more rigorous methodology revealed greater savings in the comparison group, which reduced the net program savings by about 17 therms over what they would have been using the previous methodology (that is, using the previous methodology, savings would have averaged 289 therms).

Changes in Program Delivery and Reporting

Red Rock Area Community Action began providing weatherization services in 2006. This was the only significant change to program delivery or reporting in the calendar year 2006 low income program.

Recommendations

- The procedures used for the past years have provided a comprehensive evaluation of energy and demand impacts of natural gas savings using billing analysis, implicitly capturing changes to measures and program implementation – an example is that the pre-weatherization consumption of WAP participants has declined by 21% over the past nine years. These procedures should be continued.
- Conduct an Electricity Billing Analysis -- A comprehensive electricity billing analysis has not been completed since the calendar year 1995 program, and consequently we have no information on changes to client consumption or a track record of validated program savings. Since that time, a number of major changes to electricity end-uses have occurred in the program:
 - Electricity savings, as a percentage of overall program energy savings, has tripled since 1995 due to increased installation of lighting and refrigeration appliances (note that we have done some refrigeration-targeted billing analysis for refrigeration appliances since the addition of these measures).
 - Far more dwellings have air conditioning: 87% of dwellings in the 2006 program had air conditioners, compared with 49% of dwellings in 1994. Central air conditioning accounted for 57% of all air conditioning in 2006 compared with 43% in 1994.
 - Electric water heater replacements have been added as a program measure – the reported impacts for this measure are based purely on engineering estimates.
- Future evaluations of the Iowa low-income program should consider accounting for non-energy impacts, including:
 - Reduction of client expenditures on water bills due to the installation of efficient showerheads and aerators.

- Emissions: a first step in this direction would include quantifying and assessing the value of avoided emission allowances of greenhouse gases and SO₂.

Organization of the Report

Section 2, 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 3, 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 4, 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 5, Detailed Spending and Impact Profiles by Agency provides tables similar to those in Section 4 for each weatherization agency, for all measures installed.

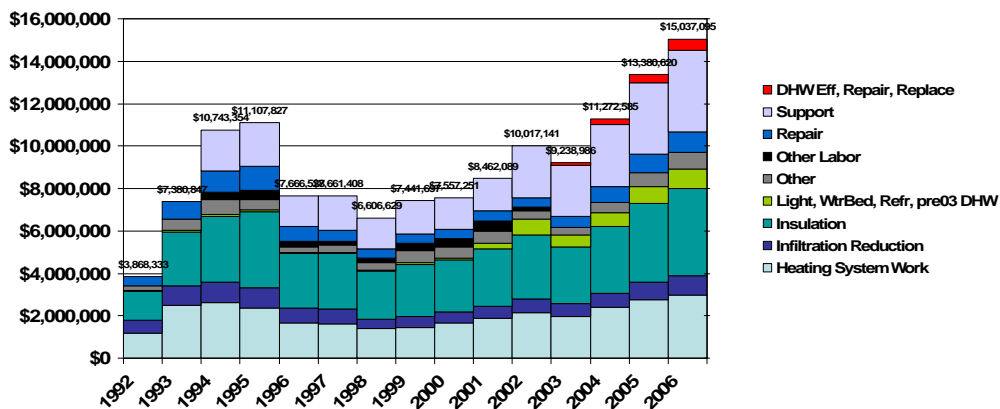
Section 6, Detailed Spending and Impact Profiles by Agency for Utility Expenditures provides similar detail by agency, but is limited to measures funded by the utilities.

2. SUMMARY OF PROGRAM IMPACTS AND EXPENDITURES

Aggregate Program Expenditures and Impacts

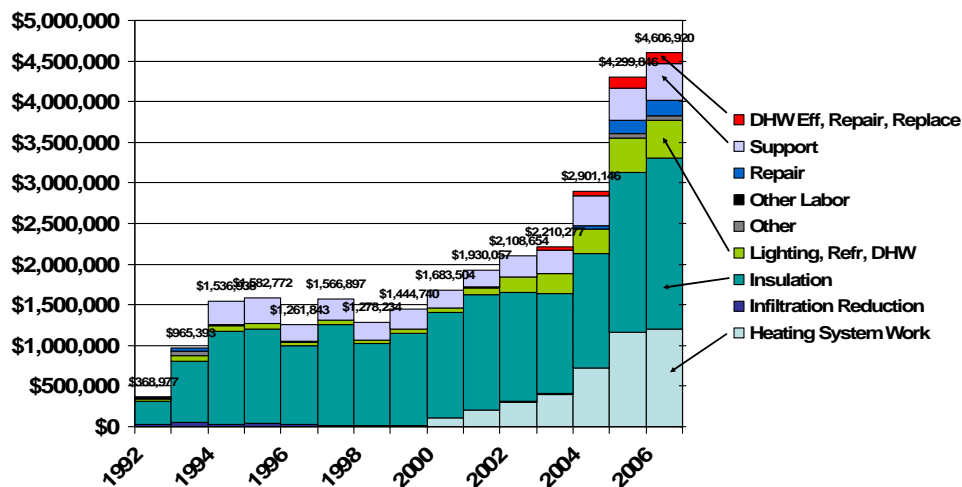
Program spending totaled \$15,034,395 for materials, labor, and support in houses weatherized to completion during calendar year (CY) 2006, up by 12.4% from \$13,380,620 in 2005 (see Figure 2.1a, totals exclude administration expenditures). The number of households weatherized in 2005 increased by 1.2%, from 2,118 in 2005 to 2,145 in 2006.

Figure 2.1a. Overall Program Expenditures



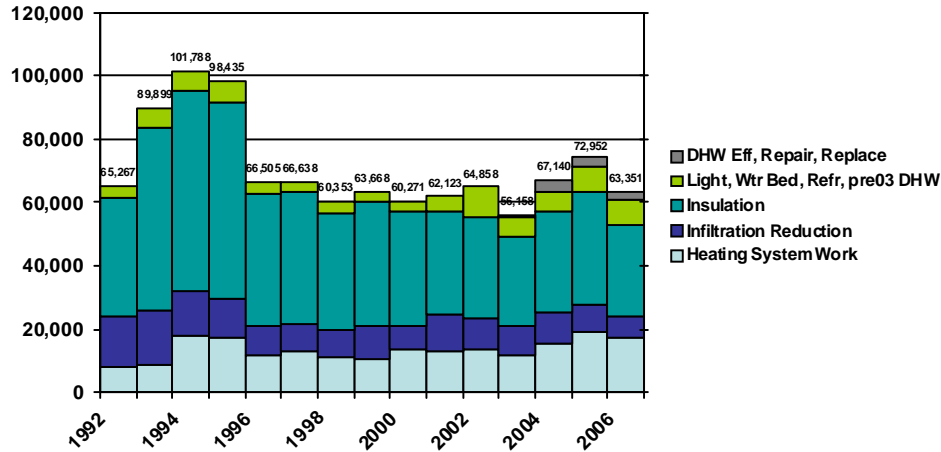
Utility funding totaled \$4,608,766, which represents a 7.2% increase over \$4,299,846 spent during 2005 (Figure 2.1b). Utility expenditures accounted for 30.7% of the total low-income program expenditures, down from 32% in 2005.

Figure 2.1b. Utility Expenditures



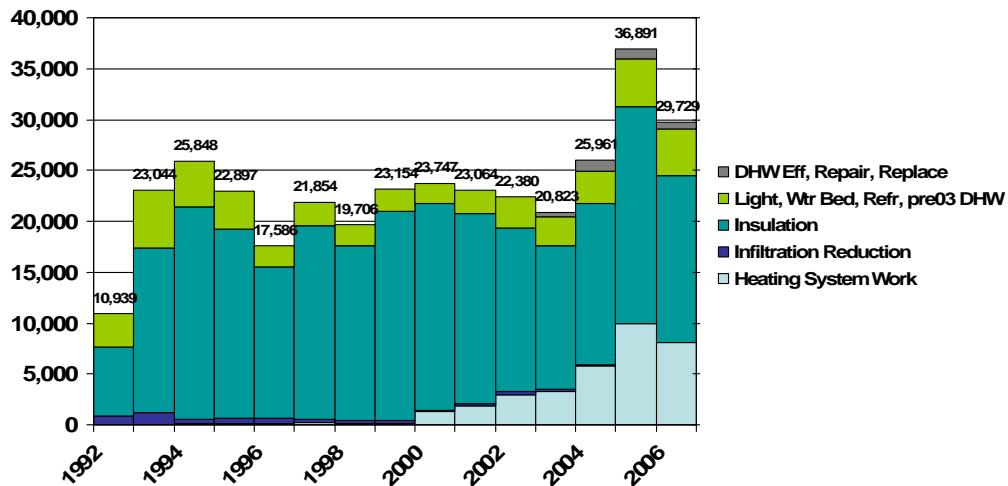
Aggregate program savings declined by 14.3%, from 73,952 MBtu in 2005 to 63,351 MBtu in 2006 (Figure 2.2a.)

Figure 2.2a. Program First Year Savings (MBTU)



Utility-funded energy savings declined by 19.4%, (Figure 2.2b.) Savings totaled 29,729 Mbtu in 2006, compared to 36,891 in 2005.

Figure 2.2b. Utility First Year Savings (MBTU)



The program MBtu savings have declined from the levels reported for the calendar year 2005 program, however this finding does not necessarily correlate with poorer program performance. We will discuss the reasons behind the decline in greater detail in Section 3 (the billing analysis results), but we note at this time that the decline in impacts is due to two major factors; foremost being the implementation of a more robust mechanism for weighting the comparison group impacts in the billing analysis, and to a lesser extent, to a lower baseline consumption for dwellings weatherized in 2006.

In fuel units, first-year savings totaled 475,837 therms of natural gas, 2,776,170 kWh of electricity, 60,496 gallons of propane, 3,639 gallons of fuel oil. Natural gas savings accounted for 75% of savings on an MBtu basis, electricity savings accounted for 15% of savings, and propane savings accounted for 9% in the CY 2006 program. First-year peak demand savings totaled 4,915 therms, 453 kW summer demand, and 589 kW winter demand.

Figure 2.3a Program MBtu Savings by End-Use

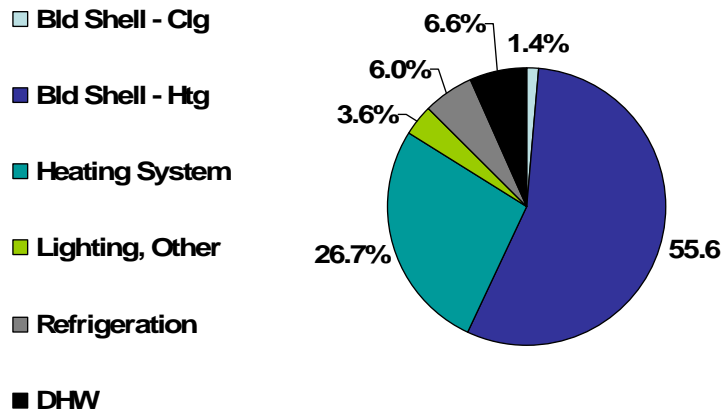
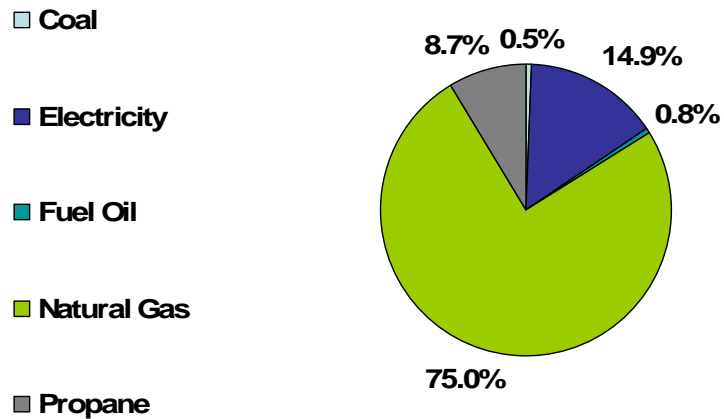


Figure 2.3b Program MBtu Savings by Fuel Type



Total nominal first year client energy bill savings decreased from \$1,031,524 in 2005 to \$931,643 during 2006 (Figure 2.4a.) The reduction in client fuel cost savings is driven by reduced savings: the relatively modest increases in fuel prices were insufficient to offset the overall decreases in savings (Figure 2.4b.) Electricity prices increased by 3.4%, gas prices increased by 1.3%, fuel oil prices increased by 19%, and propane increased by 9.7%.

Figure 2.4a First Year Client Fuel Cost Savings (Nominal Dollars)

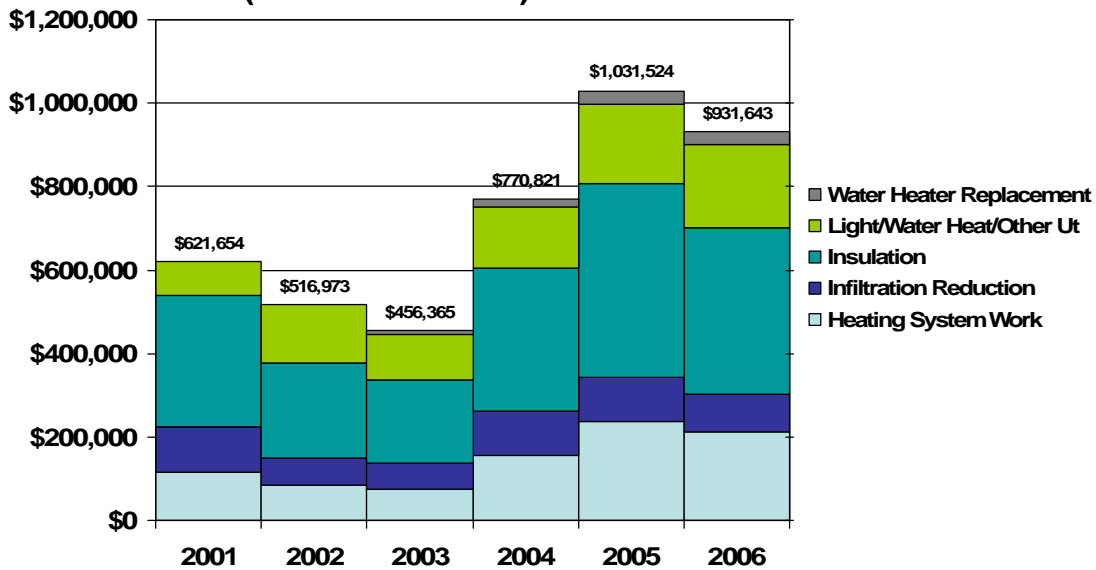
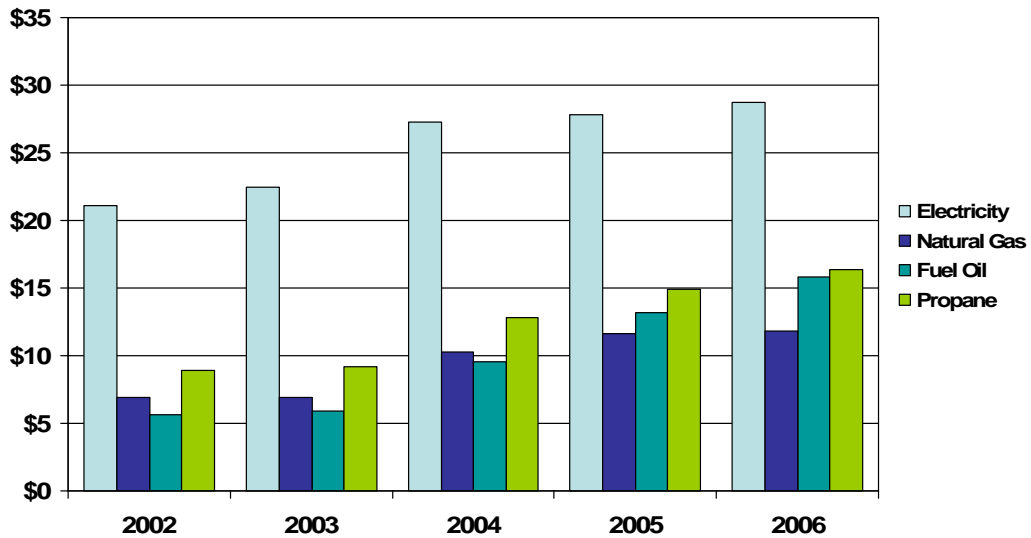


Figure 2.4b Average Fuel Cost (Nominal Dollars per MBTU)



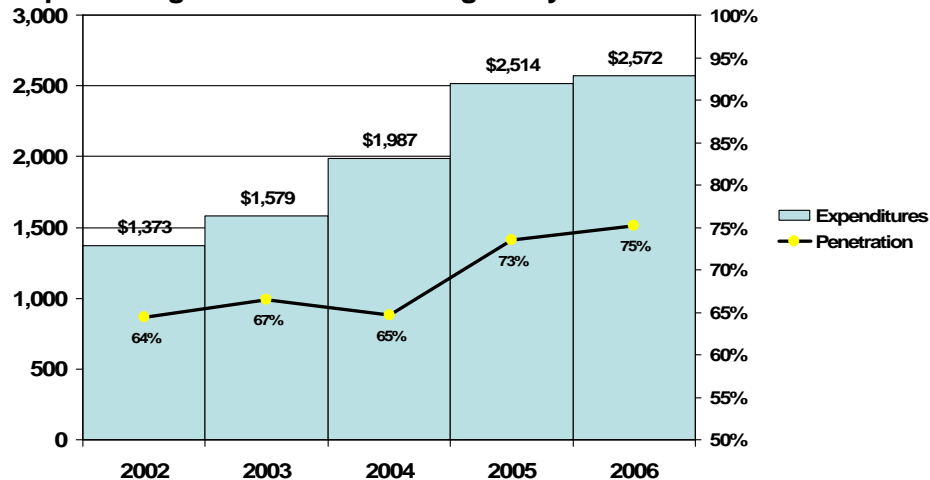
Utility Funding Impacts

Utility funding reached 1,612 households, or 75% of all dwellings treated by the program, up from 72% in 2005. The average utility expenditure for materials and labor was \$2,572 for households receiving these measures: when adding in support expenditures, the total average expenditure was \$2,859.

Utility-funded measures accounted for 51% of all energy savings for electricity and 52% of gas savings. Utility-funded measures saved an average of 892 kWh of electricity for the 1,588 dwellings with utility-funded electricity measures, compared with an average of 925 kWh in 2005. These measures saved 203 therms of natural gas for the 1,227 dwellings with utility-funded natural gas measures compared to an average of 254 therms in 2005. Utility-funded measures installed in 2006 reduced peak electricity demand by 236 kW in the summer and 273 kW in the winter, and provided 2,572 peak-day therms of gas savings.

Utility-funded measures yielded first-year client bill savings of \$446,070, averaging \$277 per dwelling that received utility-funded measures. Savings averaged \$92 per household for utility-funded electricity measures, and \$244 for gas measures.

Figure 2.5 Average utility spending on materials and labor and percentage of homes receiving utility-funded measures



Note: Averages exclude support and administration expenditures

Table 2.1 provides the percentages of total expenditures for measures funded by the utilities.

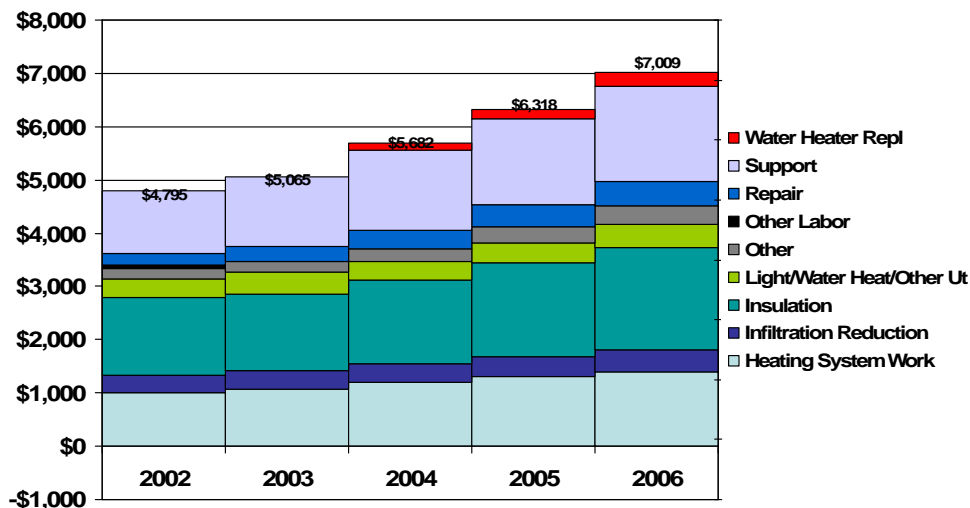
Table 2.1. Percentage of Expenditures Funded by Utilities

Measure	Expenditures		
	Total	Utility	Utility Percentage
Wall Insulation	\$1,666,176	\$960,475	57.6%
Ceiling Insulation	\$1,545,397	\$831,449	53.8%
Floor/Crawlspace Insulation	\$519,921	\$259,049	49.8%
Bandjoist Insulation	\$98,257	\$54,541	55.5%
High Efficiency Htg Sys Repl.	\$2,165,464	\$1,191,365	55.0%
Pipe Wrap	\$5,625	\$3,298	58.6%
Shower Head	\$4,340	\$2,554	58.9%
Faucet Aerator	\$3,349	\$2,039	60.9%
Water Heater Replacement - Hi Eff	\$322,583	\$135,203	41.9%
Compact Fluorescent Lighting	\$92,201	\$61,758	67.0%
Exchange Refrigerator	\$644,827	\$322,226	50.0%
Exchange Freezer	\$169,403	\$75,534	44.6%
Repairs	\$967,974	\$188,939	19.5%
Exhaust Ventilation	\$316,689	\$56,461	17.8%
Overall Excluding Support	\$8,522,205	\$4,144,892	48.6%
Support	\$3,828,204	\$463,875	12.1%
Overall Including Support	\$12,350,409	\$4,608,766	37.3%

Average Household Expenditures and Impacts

Average household expenditures increased by 10.9% to \$7,009 from \$6,318 in 2005 (Figure 2.6.) Insulation accounted for the largest proportion of total expenditures, followed by support and heating system work.

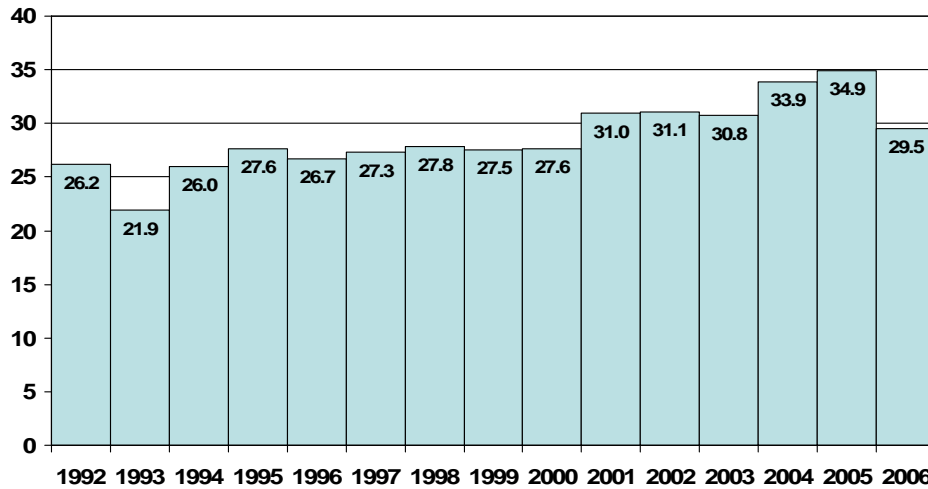
Figure 2.6 Average program expenditures



Note: Water heater replacements were not broken out prior to 2004

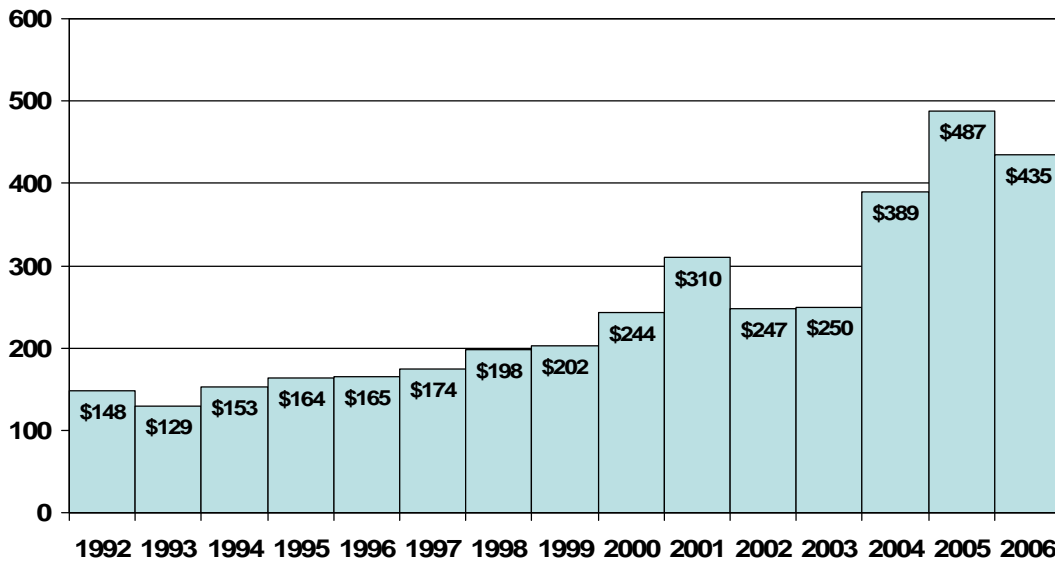
The average dwelling savings was 29.5 MBtu for clients weatherized during 2006 (Figure 2.7).

Figure 2.7 Average annual energy savings per dwelling (MBTU)



First-year client fuel bill savings were \$435 for dwellings receiving energy savings measures for the CY 2006 program, compared with \$487 per dwelling in 2005 (Figure 2.8). As noted earlier, this decline is driven by the apparent decreases in net savings (Figure 2.7) discussed further in Section 3.

Figure 2.8 Average annual client fuel bill savings (nominal dollars)



Compared to the 2005 program, client fuel cost savings declined by 10.7%, but overall MBtu savings declined by 15.5%. The smaller decline in client savings is due in part to marginal increases in fuel costs, but also due to a shift toward savings more electricity, which is more costly on an MBtu basis. The majority of client energy cost savings is attributable to space heating and heating system measures savings, which together account for 72% of savings in 2006, compared to 76% in 2005 (Figure 2.9a). Refrigeration measures accounted for 12% of the energy cost savings compared to 10% in 2005.

Natural gas savings represent the bulk of client bill savings at 60% compared to 64% in 2005, followed by electricity at 29%, which compares to 25% in 2005 (Figure 2.9b.) .

Figure 2.9a Client bill savings by end-use

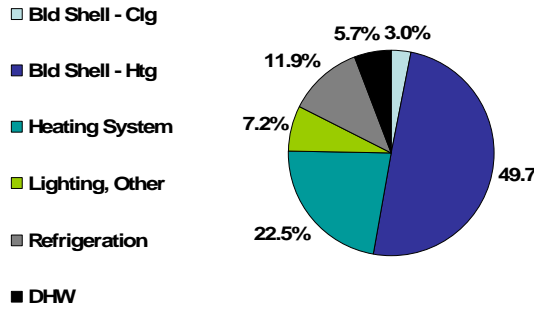


Figure 2.9b Client bill savings by fuel type

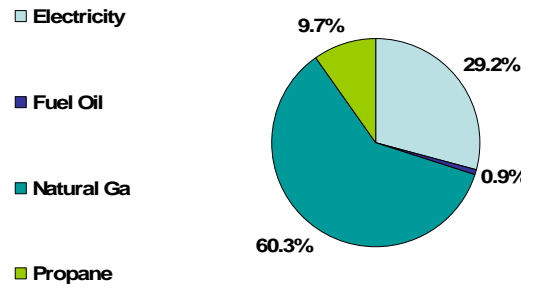
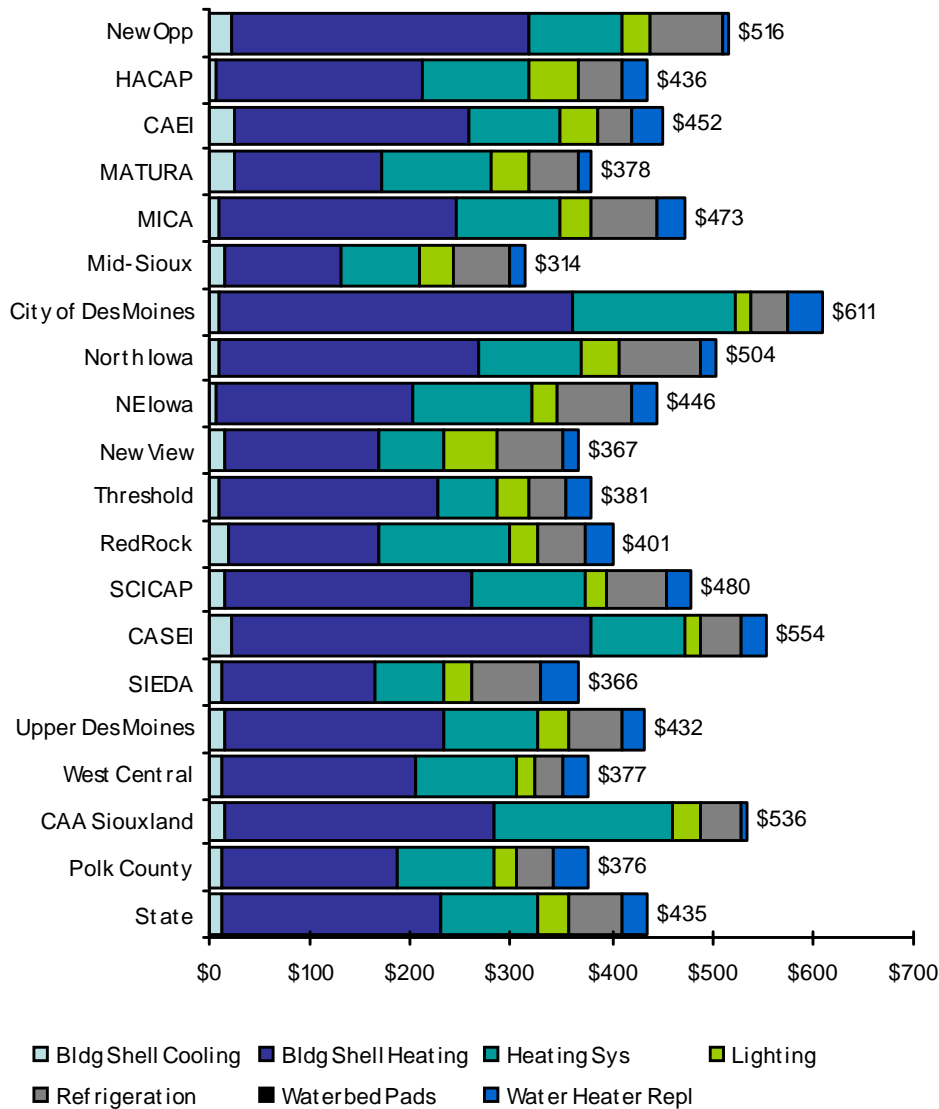


Figure 2.10 shows the average annual energy cost savings by agency. The series are arranged from left to right in the chart according to left to right and top to bottom and in the legend, e.g., Bldg Shell Cooling, then Bldg Shell Heating, then Heating system, etc.

Figure 2.10. Average annual energy cost savings per dwelling



NOTE:
 The results for likely to be **overstated** by a considerable margin for New Opportunities, and to a lesser extent New View and RedRock, and **understated** by a considerable margin for Mid-Sioux and to a lesser extent CASEI.

The natural gas savings attained by each agency were adjusted according to results of the natural gas fuel consumption analyses (see Section 3, Fuel Consumption Analysis and Assessment of Agency-Specific Adjustment Factors). The estimated impacts for propane and fuel oil were adjusted using the same factors as those used for natural gas. An electricity fuel consumption analysis was not run for the 2006 program, consequently we have applied the adjustment factors derived in previous electricity consumption analyses of the Iowa weatherization program.

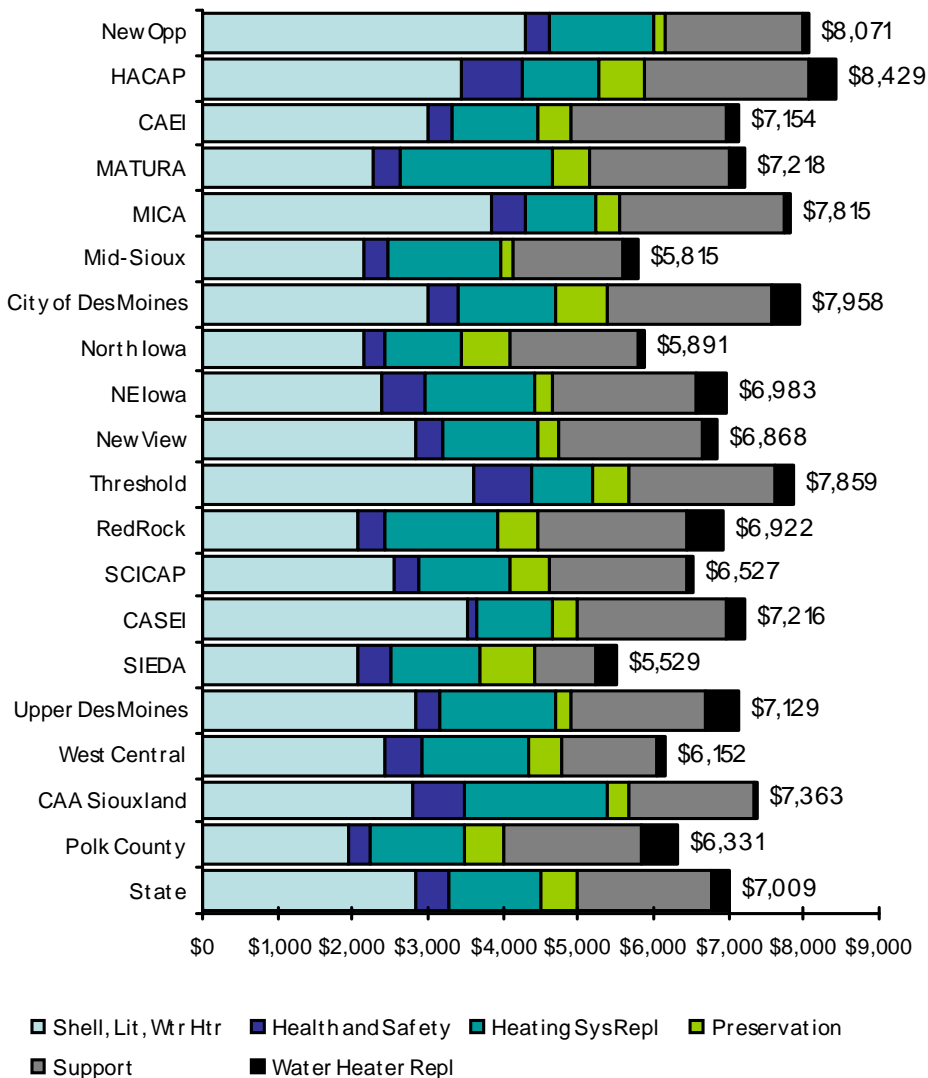
It is important to recognize that seven agencies were aggregated into a single ‘aggregate agency’ in the billing analysis, including New Opportunities, Matura, Mid-Sioux, New View, Redrock, SCICAP, and CASEI. The results for these specific agencies had a high degree of uncertainty, which can occur from small numbers of dwellings and a substantial variation between the structural characteristics for the dwellings in the billing data sample. We discuss the ramifications of aggregating agencies in more detail in Section 3, however ***it bears pointing out at this time that the adjusted impacts for some agencies are likely to be overstated by a considerable margin (particularly New Opportunities, and to a lesser extent New View and Red Rock), where others are likely to be understated (particularly Mid-Sioux, and to a lesser extent CASEI). All of the agency-specific results for total energy savings and client bill savings reported herein for these agencies in particular (including the agency-specific detail provided in Sections 5 and 6) are subject to interpretation of over/understatement as noted above.***

Bear in mind that in addition to distortions introduced by aggregating agencies, there are other factors that 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.

As shown in Figure 2.10, the average first-year client bill savings widely varied across agencies, from lows of \$314 per dwelling (Mid-Sioux, however this estimated is likely to be understated by a large margin as noted above) and New View at \$367 per dwelling (likely to be overstated) to a high of \$611 for City of Des Moines and CASEI, at \$554 (likely to be understated).

Figure 2.11 shows the average expenditures for all households in 2006. HACAP and New Opportunities averaged over \$8,000 per dwelling, followed closely by City of Des Moines. SIEDA, Mid-Sioux, and North Iowa averaged less than \$6,000 per dwelling. The statewide average expenditure was \$7,009 per dwelling.

Figure 2.11 Average spending per dwelling



The average installation rates, costs, and savings for energy efficiency measures for calendar year programs 2004-2006 are shown in Figures 2.12a and 2.12b. Several measures have effectively been phased out in the past years, including water heater turndown and wrap, capsylite bulbs, and waterbed mattress pads.

Heating system replacements were installed in 56% of dwellings weatherized in CY 2006, up from 51% in the previous year. High-efficiency heating system installation rates accounted for 81% of all heating systems replacements. Refrigeration appliance exchanges continued to increase in CY 2006: 44% of dwellings received refrigerator exchanges and 17% received freezer exchanges. Water heater

replacement rates also increased for the fifth straight year: 34% of dwellings received a replacement in CY 2006. Compact fluorescent bulbs were installed in 87% of dwellings in CY 2006.

Figure 2.12a Installation Rate

Average Cost

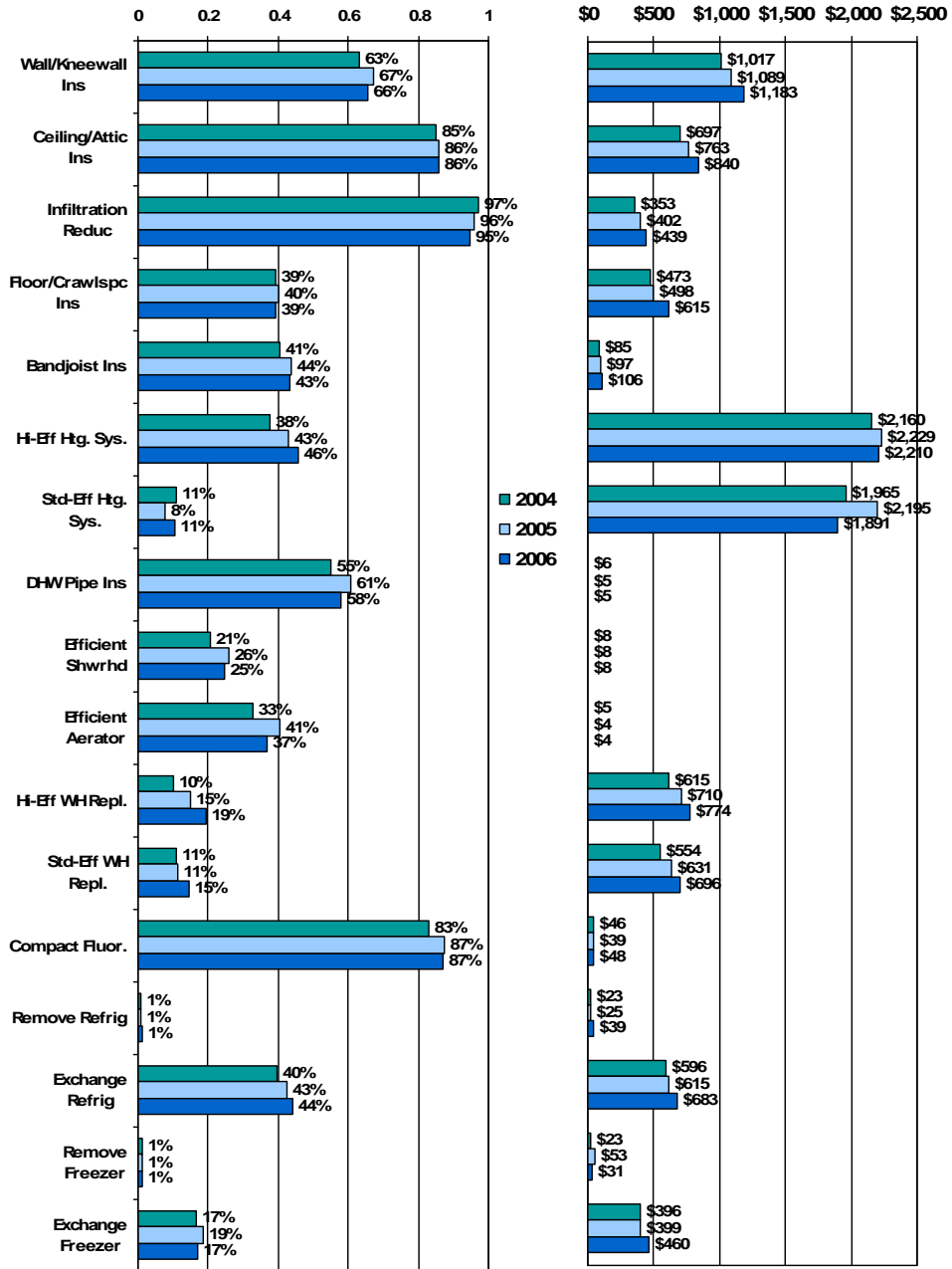
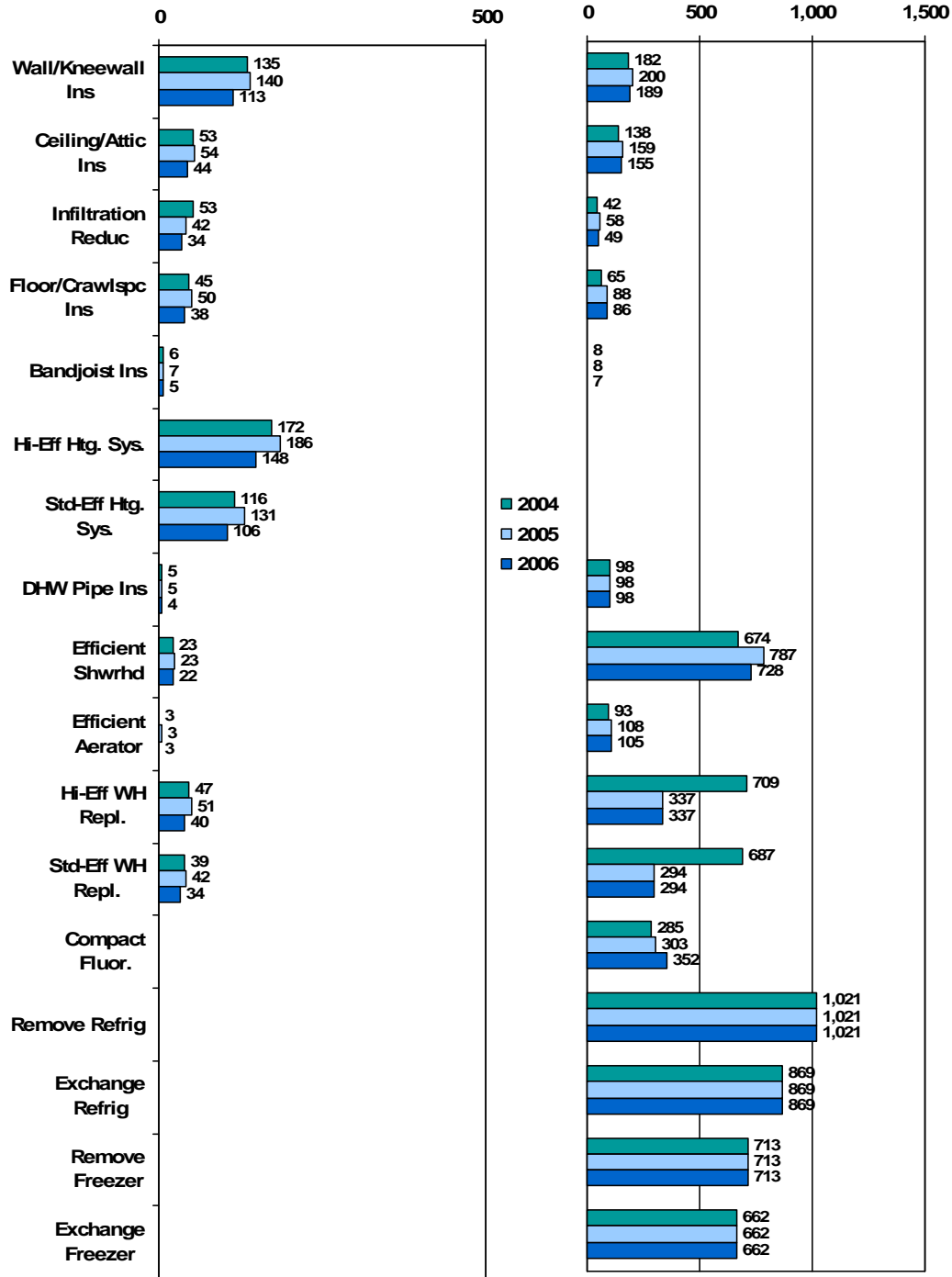


Figure 2.12b Average Gas Savings (therms) Average Electricity Savings (kWh)



The average natural gas energy savings (Figures 12b) declined due to changes in methodological procedures instituted in this year's billing analysis for truing up the comparison group. These changes are discussed in Section 3.

The most notable changes in the average electricity savings (Figure 2.12b) are for compact fluorescent bulbs, which increased to 352 kWh per dwelling from 303 in CY 2005, and the average showerhead savings per dwelling, which decreased from 787 kWh to 728 kWh in 2006.

Note that the estimated savings electric water heater replacements are reduced in the analyses for CY 2005 and CY 2006. In the CY 2004 analysis, the estimates were adjusted to correct an error whereby the impacts of gas water heaters was extrapolated to electric water heaters. This issue was revisited in this analysis and the impacts were adjusted.

Table 2.2 provides a detailed listing of the average installation rates of measures over the past 10 years.

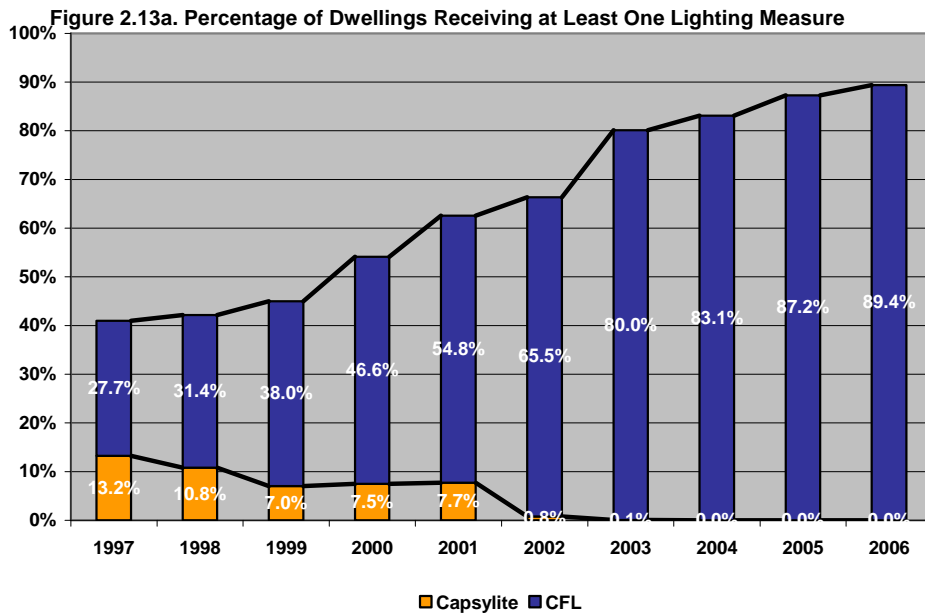
Table 2.2. Percentage of houses receiving measures

Measure	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<i>Insulation and Infiltration Reduction Measures</i>										
Wall/Kneewall Insulation	59	56	51	53	63	68	66	63	67	66
Ceiling/Attic Insulation	73	72	69	74	82	83	85	85	86	86
Infiltration Reduction	87	89	84	82	97	96	97	97	96	95
Floor/Crawlspace Insulation	33	32	29	30	33	35	36	39	40	39
Bandjoist Insulation	41	39	32	35	43	40	44	41	44	43
Damming Material	5	24	28	31	33	0	0	0	0	0
Unspecified Insulation	38	52	60	67	76	73	74	72	69	67
<i>Heating System Measures</i>										
Htg. Sys. Replacement	33	31	29	39	44	44	44	49	50	56
High Eff Htg Sys Repl	6	7	5	8	18	20	25	38	43	46
Std/Unspec Eff Htg Sys Repl	26	24	24	31	26	24	19	11	8	11
Htg. Sys. Tune and Clean	61	59	53	52	63	62	62	57	56	54
Heating System Safety Check	45	55	55	60	25	35	28	29	27	28
Htg. Sys. Other	30	29	15	7	25	43	46	43	43	41
Duct Insulation	3	2	2	2	2	0	0	0	0	0
Duct Sealing	22	20	23	23	28	58	57	56	61	59
<i>Water Heater Measures</i>										
Water Heater Turndown	9	10	4	3	3	3	0	0	0	0
Water Heater Wrap	14	15	12	10	13	10	9	6	1	0
Pipe Wrap	40	44	38	40	46	47	49	55	61	58
Shower Head	18	19	18	14	23	20	18	21	26	25
Faucet Aerator	30	31	27	27	32	33	33	33	41	37
Water Heater Replacement						15	19	21	26	34
Std-Eff Wtr Htr Repl.	Combined with wtr htr repair					14	12	11	11	15
Hi-Eff Wtr Htr Repl.						1	6	10	15	19
Water Heater Repair	14	11	14	20	18	7	13	15	14	12
<i>Lighting Measures</i>										
				53	63	66	80	83	87	89
Capsylite Bulbs	13	11	7	8	8	1	0	0	0	0
Compact Fluorescent Bulbs	28	31	39	47	55	66	80	83	87	89
<i>Water Bed Mattress Pads</i>										
	3	1	2	2	2	1	1	1	0	0
<i>Refrigeration Measures</i>										
					14	36	44	47	51	51
Refrigerator Removal	Na	Na	Na	Na	1	1	2	1	1	1
Refrigerator Exchange	Na	Na	Na	Na	9	31	37	40	43	44
Freezer Removal	Na	Na	Na	Na	0	1	1	1	1	1
Freezer Exchange	Na	Na	Na	Na	3	10	14	17	19	17
<i>Health and Safety (other than heating & water heating measures listed above)</i>										
Asbestos Abatement	1	1	0	0	0	0	1	1	0	0
CO Detector	15	22	24	29	33	30	34	37	38	42
Smoke Detector	3	4	5	7	0	6	9	11	11	15
Exhaust Ventilation	36	36	35	38	57	47	48	51	61	64
Fuses	0	1	0	0	0	0	0	0	0	0
<i>Support and Evaluator/Inspector Labor</i>										
Evaluator Labor	38	44	82	91	94	30	Na	Na	Na	Na
Inspector Labor	33	50	74	84	94	29	Na	Na	Na	Na
Evaluator/Inspector Labor	Na	Na	Na	Na	1	0	Na	Na	Na	Na
Support	98	98	98	98	100	99	94	94	92	96
<i>Other</i>										
Repairs	75	73	68	70	80	80	85	86	88	90
Consumables	31	36	28	27	20	26	26	24	23	26

Ramping up of High-Efficiency Measures

We reviewed the increases in the installation rates of several measures over the past 10 years, including lighting measures, heating system replacements, and refrigeration measures. These are shown in Figures 2.13a through 2.13d.

Figure 2.13a shows the percentage of dwellings receiving at least one lighting measure for each year, beginning in 1997. Lighting was installed in 41% of dwellings in 1997; currently 89% of dwellings receive lighting from the program. Capsylite bulbs, which were initially installed in more than one-third of dwellings receiving lighting measures, were steadily phased-out as more CFL bulbs were installed: by 2002, they were essentially phased-out completely.



The average number of bulbs installed in dwellings that received at least one lighting measure increased by 20% year-over-year, and from 3.8 bulbs in 1997 to 7.4 in 2006, a 95% increase (Figure 2.13b).

Figure 2.13b. Average Number of Bulbs Installed in Dwellings That Received at Least One Lighting Measure

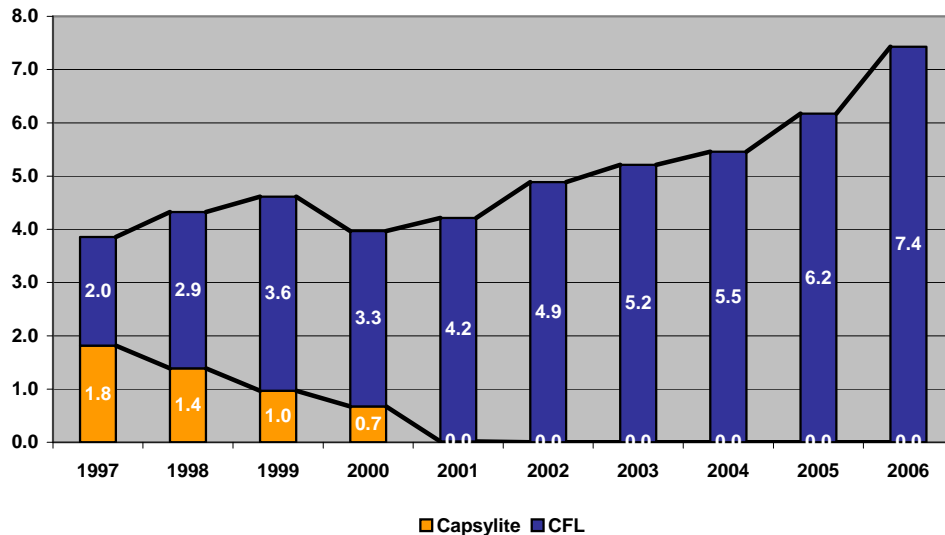


Figure 13c shows the ramping up of refrigeration measure installation rates. Less than 10% of dwellings exchanged refrigerators in 2001 compared with nearly 45% in 2006. Freezer exchanges showed a similar expansion, from approximately 3% of dwellings exchanging freezers in 2001 compared to 17% in 2005. Refrigeration appliance removal rates (where an appliance is removed with no replacement unit) remained at around 1-2% of dwellings throughout the 2001-2006 time period.

Figure 2.13c. Installations of Refrigeration Measures

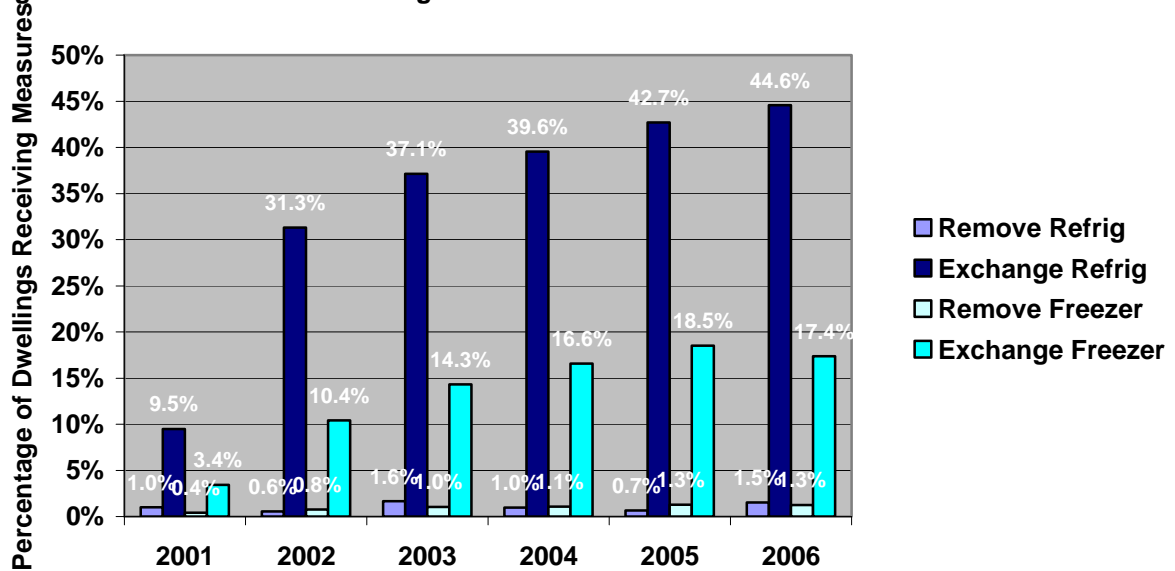
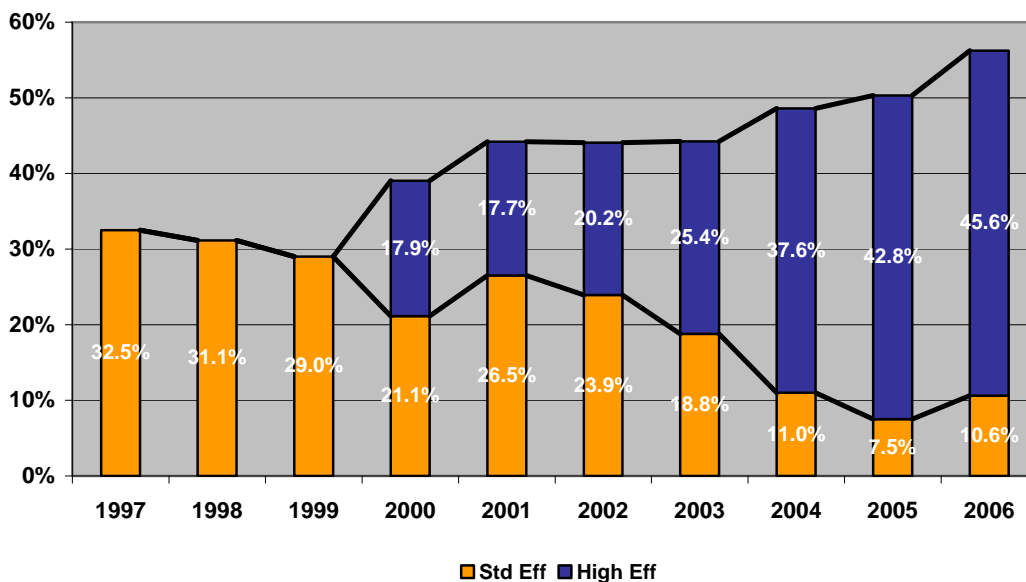


Figure 13d shows the transition away from standard (80%) efficiency furnaces to high (90+) efficiency furnaces. Prior to the inclusion of high-efficiency furnaces, the installation rate of furnace replacements was around 30%. The overall percentage of dwellings receiving furnace replacements began increasing in 2000, and currently stands at 56% of dwellings. High efficiency furnace installations comprised 81% of all furnace replacements in the WAP during 2006.

Figure 2.13d. Natural Gas Heating System Replacement Rates by Year



Savings of Water Heater, Lighting, and Refrigeration Measures

Table 2.3 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 \$93 for these measures, a slight increase from \$90 in CY 2005.

The highest average bill savings were attained by North Iowa at \$129 per dwelling and New View at \$125. New View had the highest installation rates of refrigeration measure exchanges at 58%. In addition, New Opportunities, MICA, NE Iowa, and Threshold all averaged more than \$100 per year. CASEI and West Central showed the lowest average bill savings for these measures, both less than \$60 per dwelling.

Table 2.3 Installation rates of non-space-conditioning measures

Agency	Water Heating			Lighting Compact Fluor	Refrigeration				Average First Year Bill Savings
	Pipe Wrap	Eff Shower- head	Eff Faucet Aerator		Ex- change Refrig	Ex- change Freezer	Remove Refrig	Remove Freezer	
New Opp	93%	0%	0%	100%	51%	27%	8%	5%	\$103.14
HACAP	4%	12%	8%	96%	39%	6%	0%	0%	\$97.71
CAEI	47%	40%	58%	87%	38%	12%	0%	0%	\$86.72
Matura	0%	0%	0%	98%	44%	9%	0%	2%	\$88.43
MICA	89%	55%	75%	99%	50%	26%	0%	0%	\$119.75
Mid-Sioux	69%	3%	35%	98%	44%	32%	0%	5%	\$97.39
City of Des Moines	37%	24%	30%	89%	56%	2%	0%	0%	\$63.73
North Iowa	76%	16%	49%	97%	52%	32%	5%	5%	\$129.09
NE Iowa	82%	0%	0%	90%	44%	35%	5%	3%	\$103.79
New View	1%	7%	29%	93%	58%	9%	1%	0%	\$125.24
Threshold	92%	49%	63%	95%	39%	15%	2%	2%	\$82.49
Redrock	31%	5%	0%	97%	48%	10%	0%	0%	\$77.02
SCICAP	8%	41%	51%	27%	54%	16%	0%	0%	\$85.96
CASEI	82%	0%	0%	64%	35%	6%	0%	0%	\$55.28
SIEDA	79%	48%	42%	83%	52%	26%	0%	0%	\$117.48
Upper Des Moines	56%	0%	50%	98%	53%	22%	0%	0%	\$86.48
West Central	82%	46%	78%	54%	25%	18%	1%	0%	\$56.20
CAA Siouxland	53%	8%	0%	90%	40%	19%	3%	1%	\$73.58
Polk County	64%	41%	54%	96%	50%	7%	0%	0%	\$70.62
State	58%	25%	37%	88%	45%	17%	1%	1%	\$92.76

(1) First-year household bill savings are averages of total water heater, and lighting

Table 2.4 shows details of the average installed costs for each measure over the past 10 years of the joint program (average costs are computed for households that received the specific measures, not across all households treated by the program.) The average installed costs of major energy measures tended to increase by around 8-10% year-over-year. Exceptions included Floor/Crawlspace Insulation, which increased by 23.5%. The average cost for High Efficiency Heating System Replacements decreased by about 1%, and Standard Efficiency Heating System Replacement Costs decreased by 14%. The average costs for Freezer and Refrigerator Exchanges increased by about 15% and 11% respectively.

Table 2.4 Average measure costs

Measure	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	Recent Year Change (%)
<i>Insulation and Infiltration Reduction Measures</i>											
Wall/Kneewall Insulation	819	826	846	831	871	875	919	1017	1089	1183	8.5%
Ceiling/Attic Insulation	543	558	573	592	631	684	664	698	763	840	10.1%
Infiltration Reduction	310	248	264	281	294	340	342	353	402	439	9.2%
Floor/Crawlspace Insulation	315	350	408	407	421	423	391	474	498	615	23.5%
Bandjoist Insulation	71	75	79	77	82	81	79	85	97	106	8.8%
Unspecified Insulation	121	129	143	140	144	146	142	166	191	208	9.0%
<i>Heating System Measures</i>											
Htg. Sys. Replacement											
High Eff Htg Sys Repl	1,929	1,830	2,059	1,959	2,063	2,129	2,103	2,160	2,229	2,212	-0.7%
Std/Unspec Eff Htg Sys Repl	1,604	1,712	1,751	1,781	1,727	1,696	1,872	1,965	2,195	1,891	-13.8%
Htg. Sys. Tune and Clean	73	77	80	75	77	82	80	81	85	90	6.3%
Heating System Safety Check	50	53	119	144	266	69	75	97	77	82	6.2%
Htg. Sys. Other	229	248	326	251	266	281	269	257	261	258	-1.2%
Duct Sealing	149	126	156	142	153	96	83	79	107	114	6.4%
<i>Water Heater Measures</i>											
Pipe Wrap	6	6	7	6	7	7	7	6	5	5	-12.1%
Shower Head	9	8	8	7	29	8	7	8	8	8	1.6%
Faucet Aerator	6	5	5	5	5	5	5	5	4	4	-4.5%
Water Heater Replacement											
Std-Eff Wtr Htr Repl.	Combined with wtr htr repair					422	444	554	631	696	10.3%
Hi-Eff Wtr Htr Repl.						816	521	615	710	774	9.0%
Water Heater Repair	224	252	265	240	328	85	137	143	140	145	4.0%
<i>Lighting Measures</i>											
CFL Bulbs (avg spent per home)	47	70	66	58	62	74	48	48	39	48	23.9%
<i>Refrigeration Measures</i>											
Refrigerator Removal	Na	Na	Na	Na	43	31	28	23	25	39	53.2%
Refrigerator Exchange	Na	Na	Na	Na	589	588	591	596	615	683	11.0%
Freezer Removal	Na	Na	Na	Na	40	31	30	23	53	31	-42.2%
Freezer Exchange	Na	Na	Na	Na	410	397	386	396	399	460	15.4%
<i>Health and Safety (other than heating & water heating measures listed above)</i>											
Asbestos Abatement	500	529	648	0	0	849	772	735	862	330	-61.7%
CO Detector	60	56	55	51	50	53	53	53	53	53	0.0%
Smoke Detector	27	31	33	25	0	25	29	31	30	31	2.5%
Exhaust Ventilation	65	74	73	79	187	89	116	128	191	229	20.3%
Fuses	21	35	35	28	0	23	33	20	68	55	-18.4%
<i>Support and Evaluator/Inspector Labor</i>											
Support and Evaluator/Inspector La	672	709	690	699	754	1,178	1,405	1,584	1,734	1,855	7.0%
<i>Other</i>											
Repairs	287	298	292	279	296	275	318	420	461	503	9.2%
Consumables	23	27	13	15	14	16	20	25	22	23	7.3%
Unknown	85	1976	989	578	541	257	71	242	220	124	-43.8%

Note: Refrigeration measures were phased in beginning the second half of 2001.

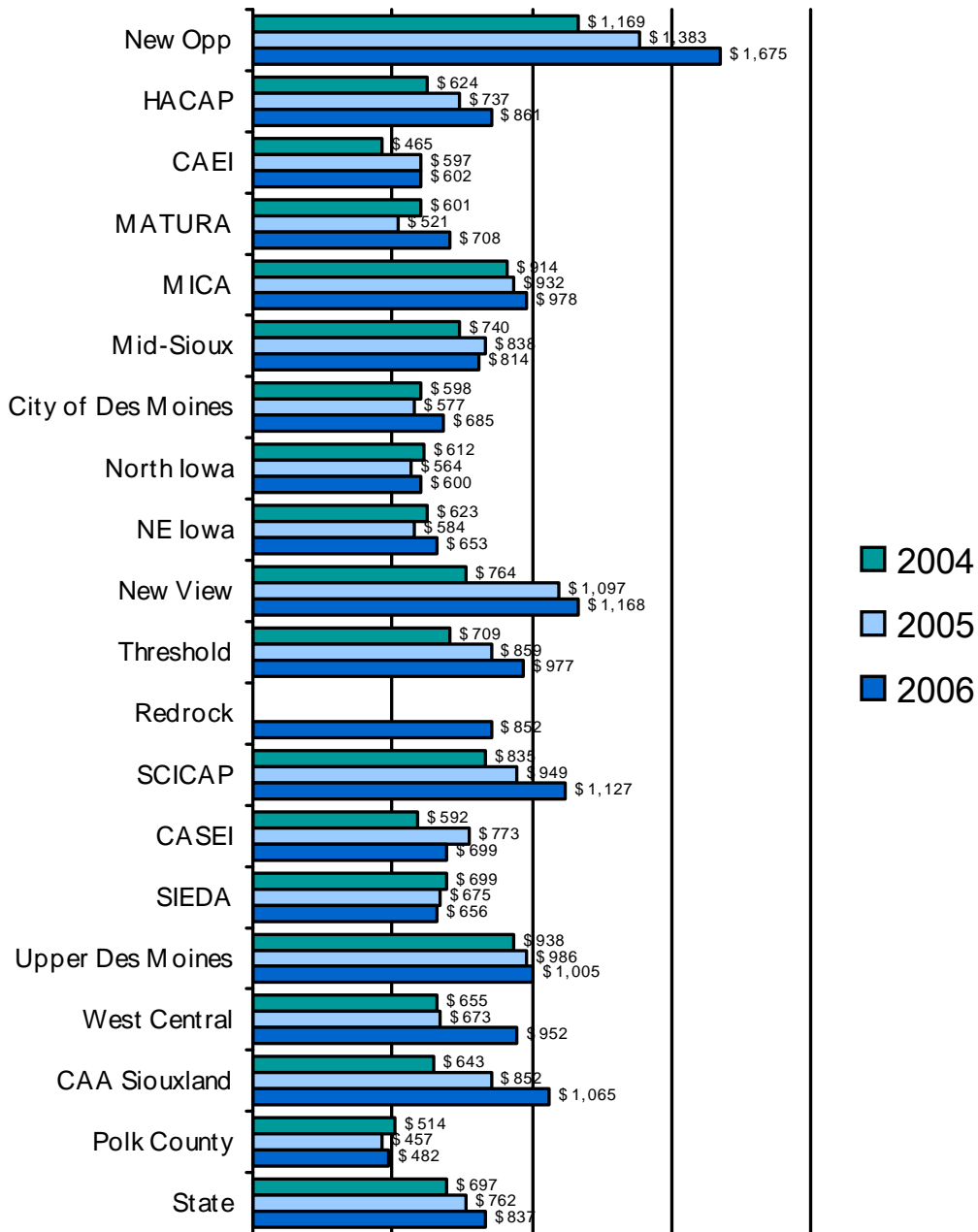
Average Costs of Major Measures by Agency

Figures 2.14-2.17 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 Insulation Expenditures

Figures 2.14a and 2.14b show the average installed costs for ceiling insulation. The statewide average cost for ceiling insulation was \$837 in 2006 as compared to \$762 in 2005.

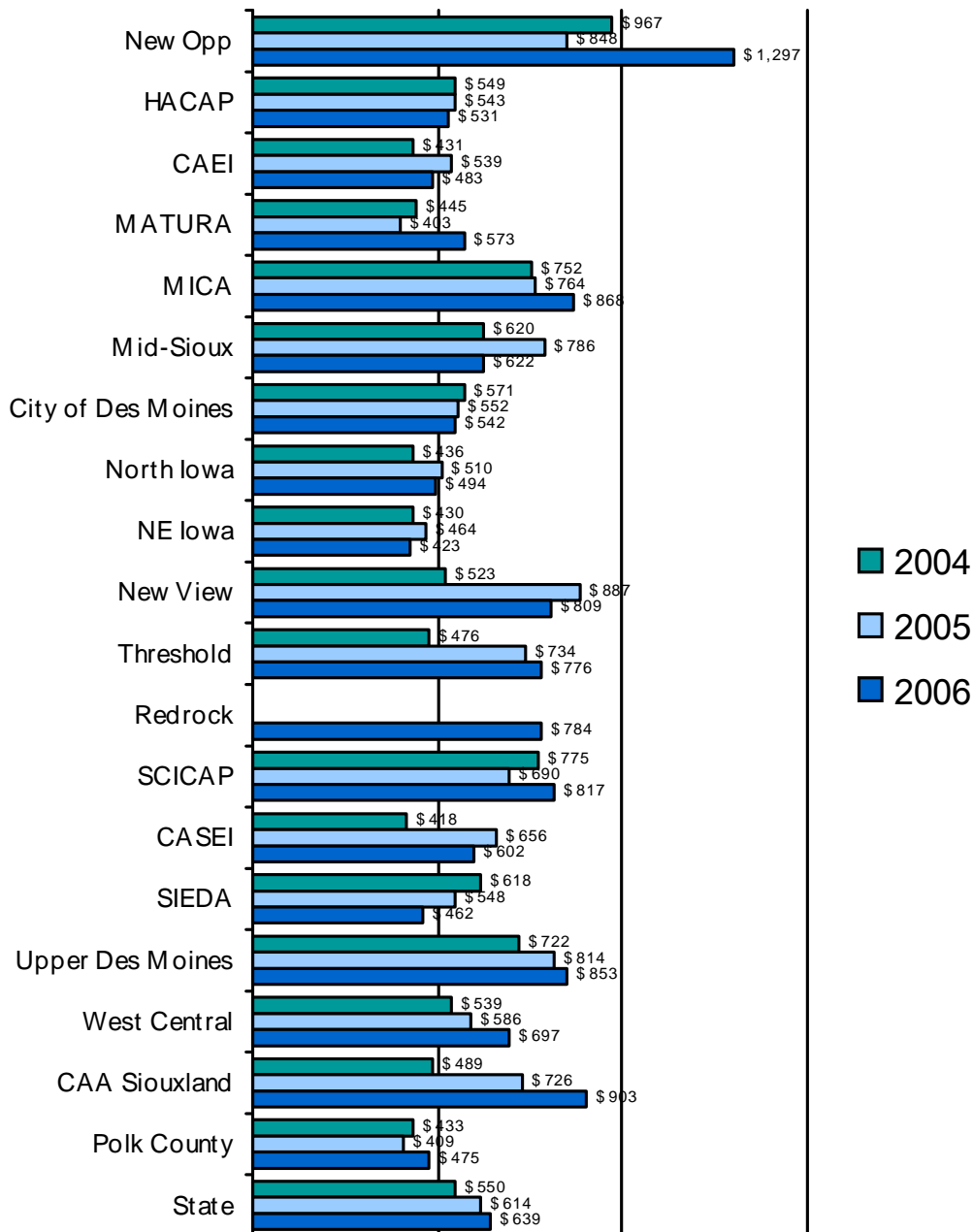
Figure 2.14a. Average Cost of Ceiling Insulation – Dollars per Dwelling



New Opportunities had the highest average expenditure at \$1,675 per dwelling far greater than the next highest (New View at \$1,168). Polk County spent the least, averaging \$482 per dwelling, followed by North Iowa at \$600 and CAEI at \$602.

Figure 2.14b shows the statewide average expenditure of *utility funds* on ceiling insulation was \$639 in 2006. New Opportunities had the highest average average expenditures at \$1,297; the next highest average expenditure was for CAA Siouxland at \$903. NE Iowa and SIEDA had the lowest average expenditures of utility funds, at \$423 and \$462 respectively.

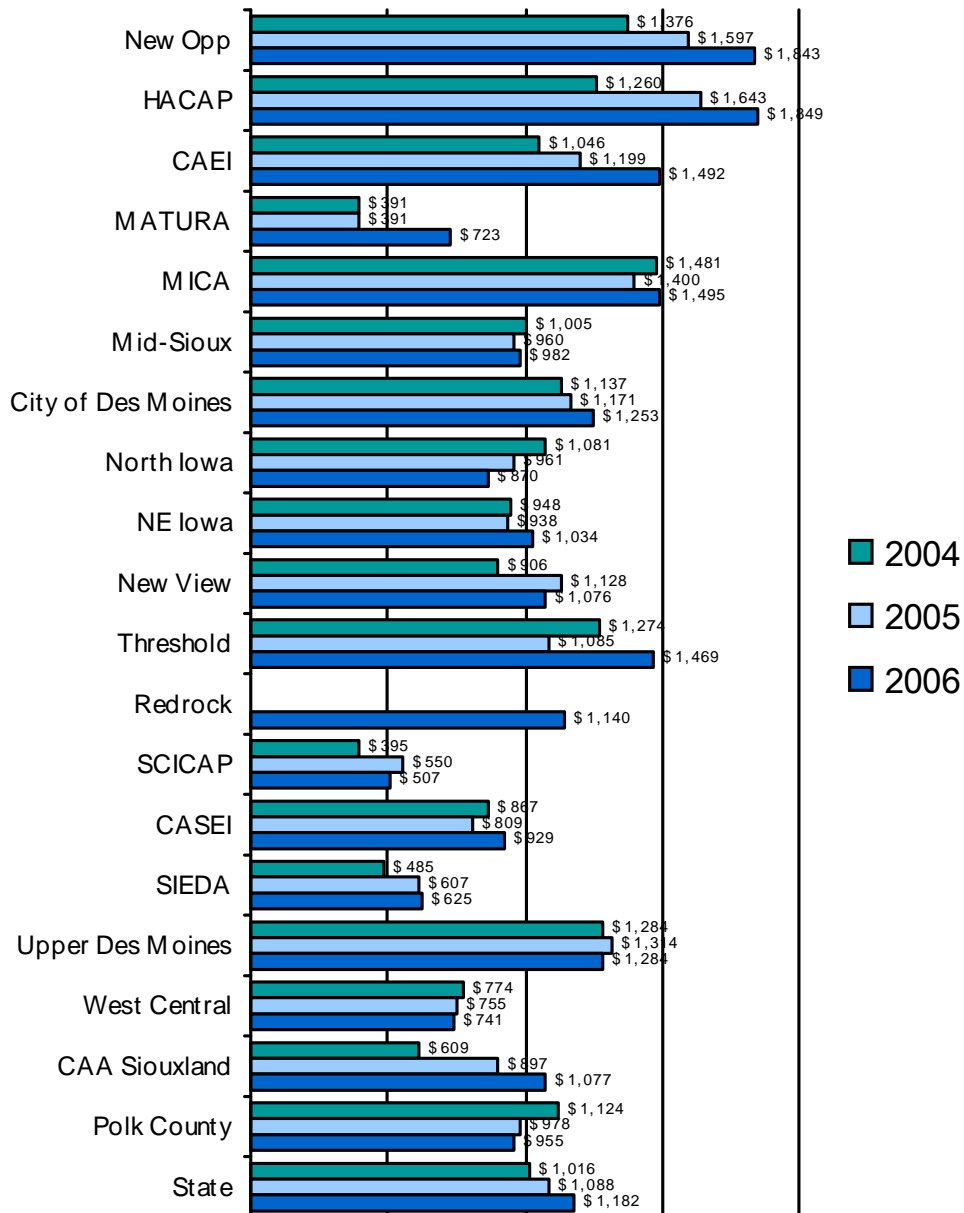
Figure 2.14b. Average Cost of Ceiling Insulation – Utility Dollars per Dwelling



Wall Insulation Expenditures

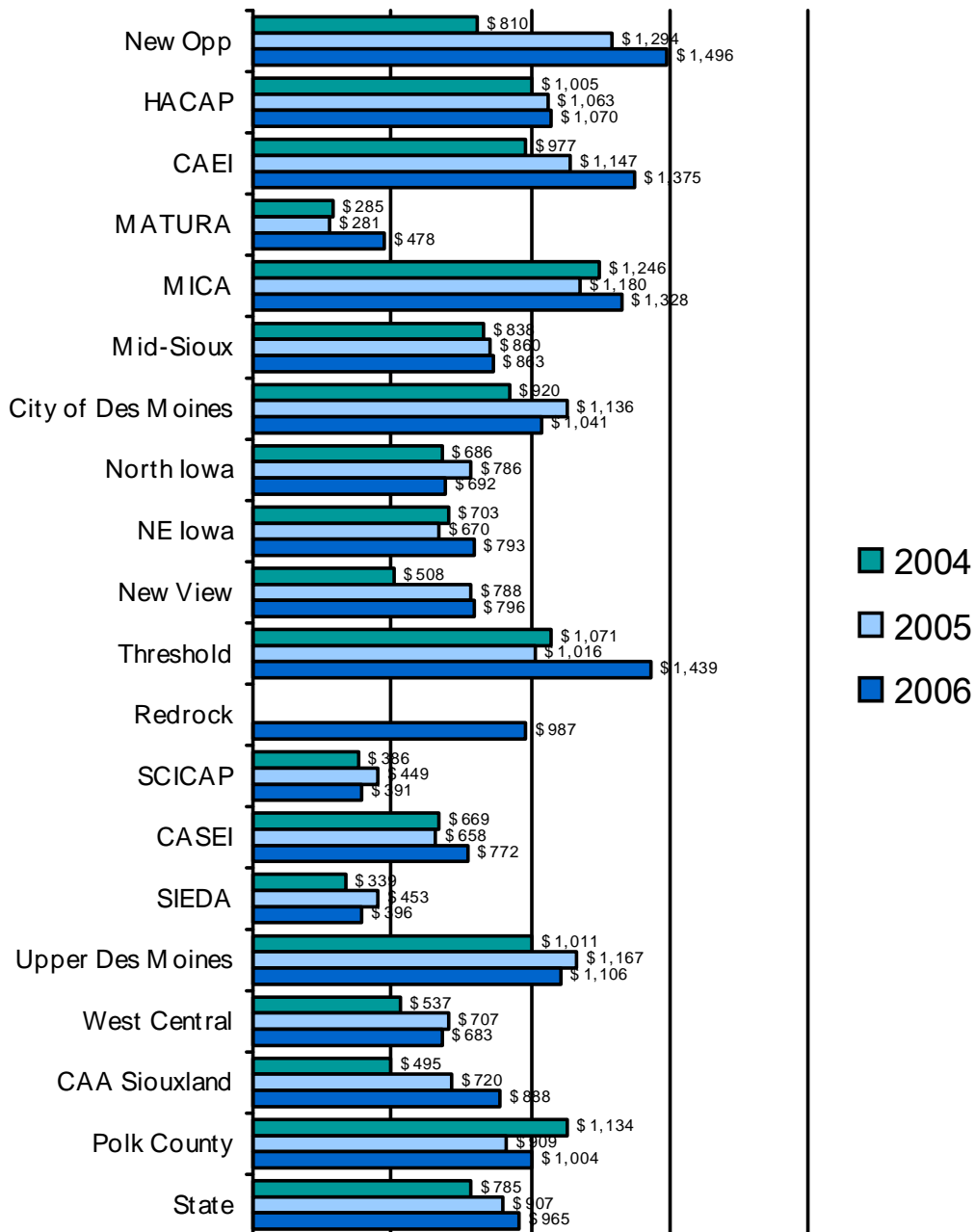
Figures 2.15a and 2.15b show the average installed costs for wall insulation. The overall average expenditure for wall insulation was increased from \$1,088 in CY 2005 to \$1,182 in 2006. HACAP and New Opportunities had the highest average expenditures at \$1,849 and \$1,853, respectively. SCICAP spent the least, at \$507.

Figure 2.15a. Average Cost of Wall Insulation – Dollars per Dwelling



Statewide, the average expenditures for *utility-funded* wall insulation increased year-over-year, from \$907 to \$965. New Opportunities' average expenditure was highest at \$1,496 per dwelling followed by Threshold at \$1,439. SCICAP and SIEDA averaged \$391 and \$396, respectively, for average utility-funded expenditures per dwelling in 2006.

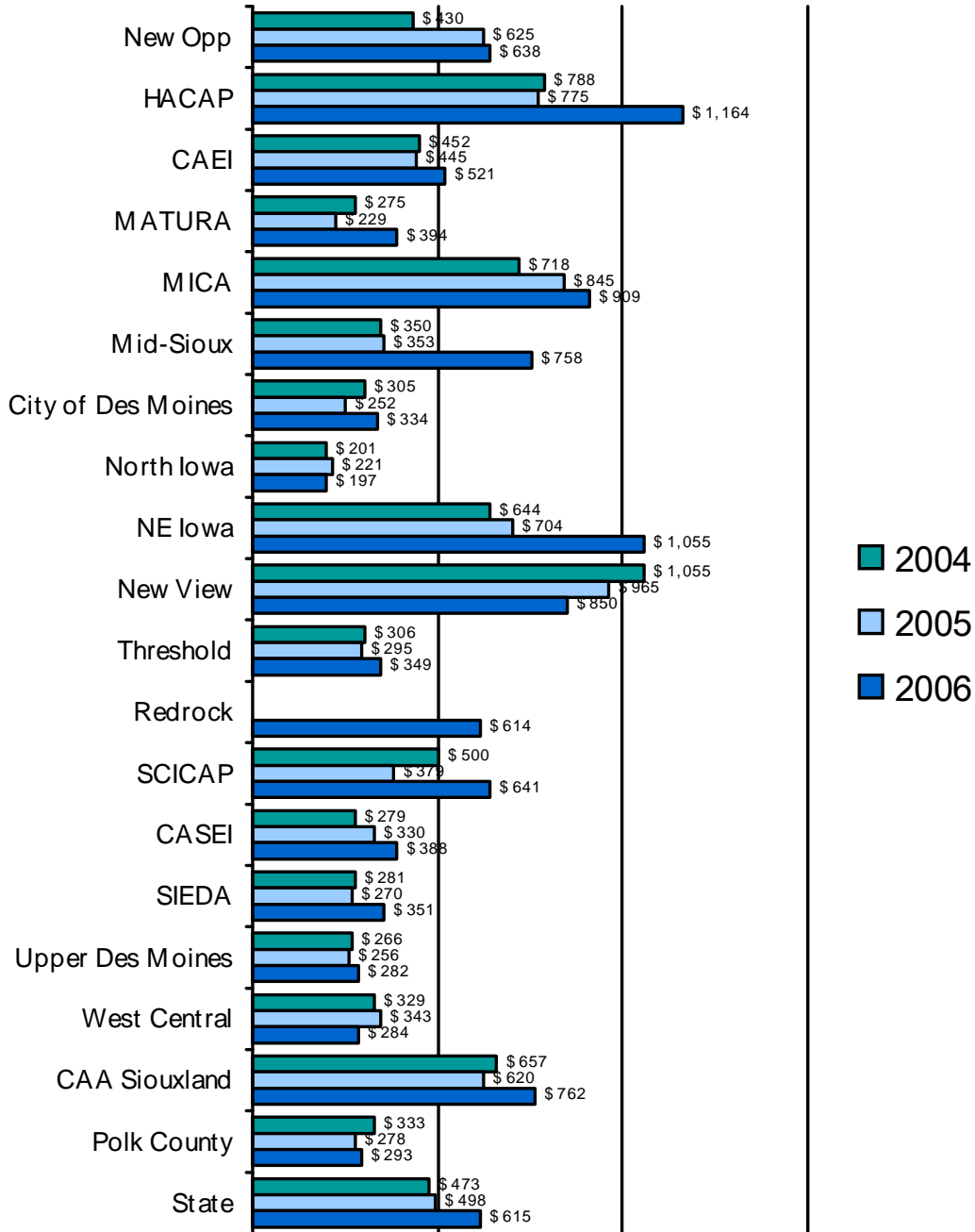
Figure 2.15b. Average Cost of Wall Insulation – Utility Dollars per Dwelling



Floor/Crawlspace Insulation

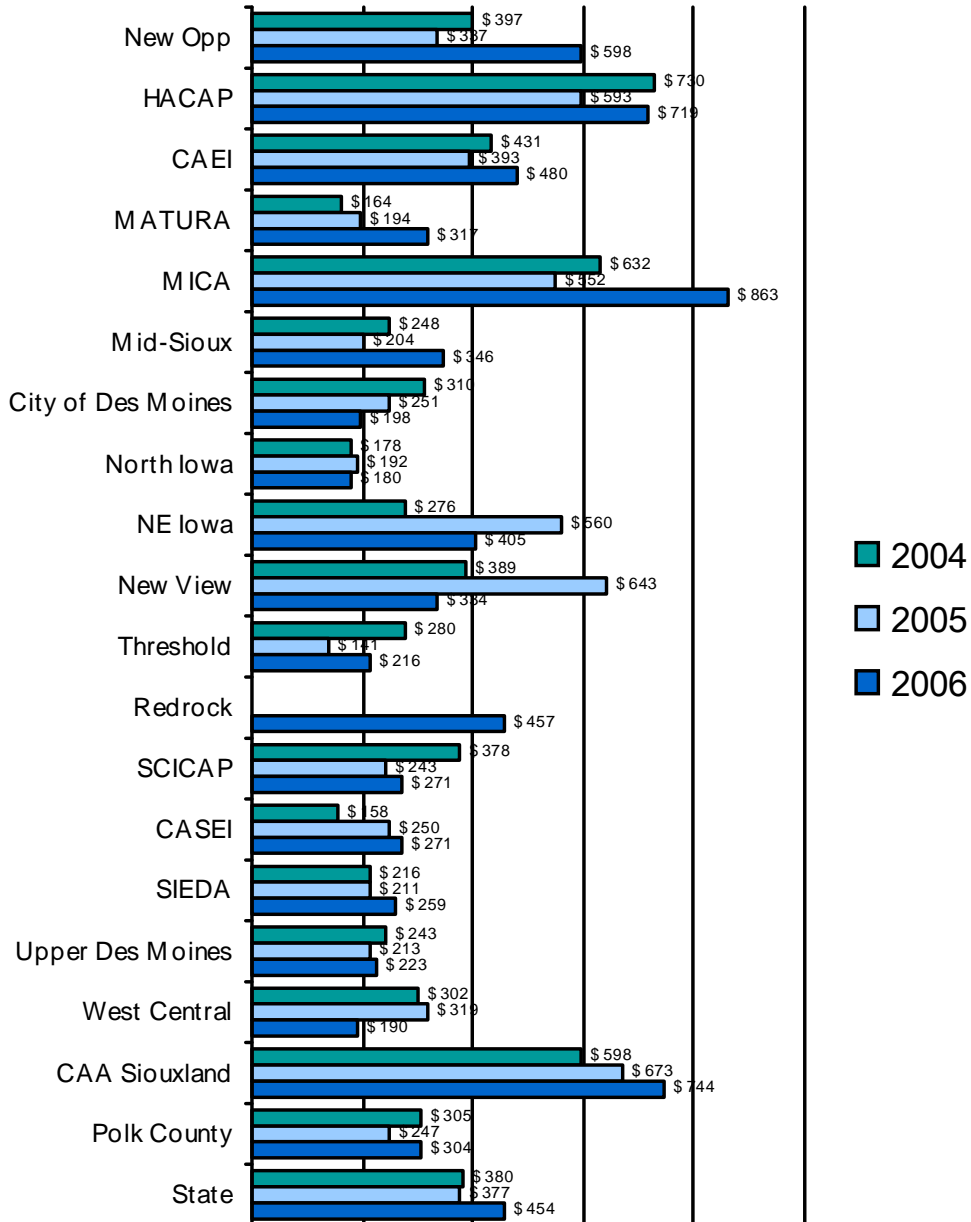
Figures 2.16a and 2.16b show the average expenditures for floor/crawlspace insulation in CY 2006. Statewide, the cost for floor/crawlspace insulation averaged \$615, up from \$498 in 2005. HACAP and NE Iowa had the highest average expenditures, at \$1,165 and \$1,054 respectively. At \$197 per dwelling, North Iowa spent the least.

Figure 2.16a. Average Cost of Floor/Crawlspace Insulation – Dollars per Dwelling



Statewide, the average expenditure of utility funds for floor/crawlspace insulation was \$454. MICA averaged the highest at \$863 per dwelling, and CAA Siouxland and HACAP spent \$744 and \$719 per dwelling, respectively. North Iowa, West Central, and City of Des Moines each averaged less than \$200 per dwelling.

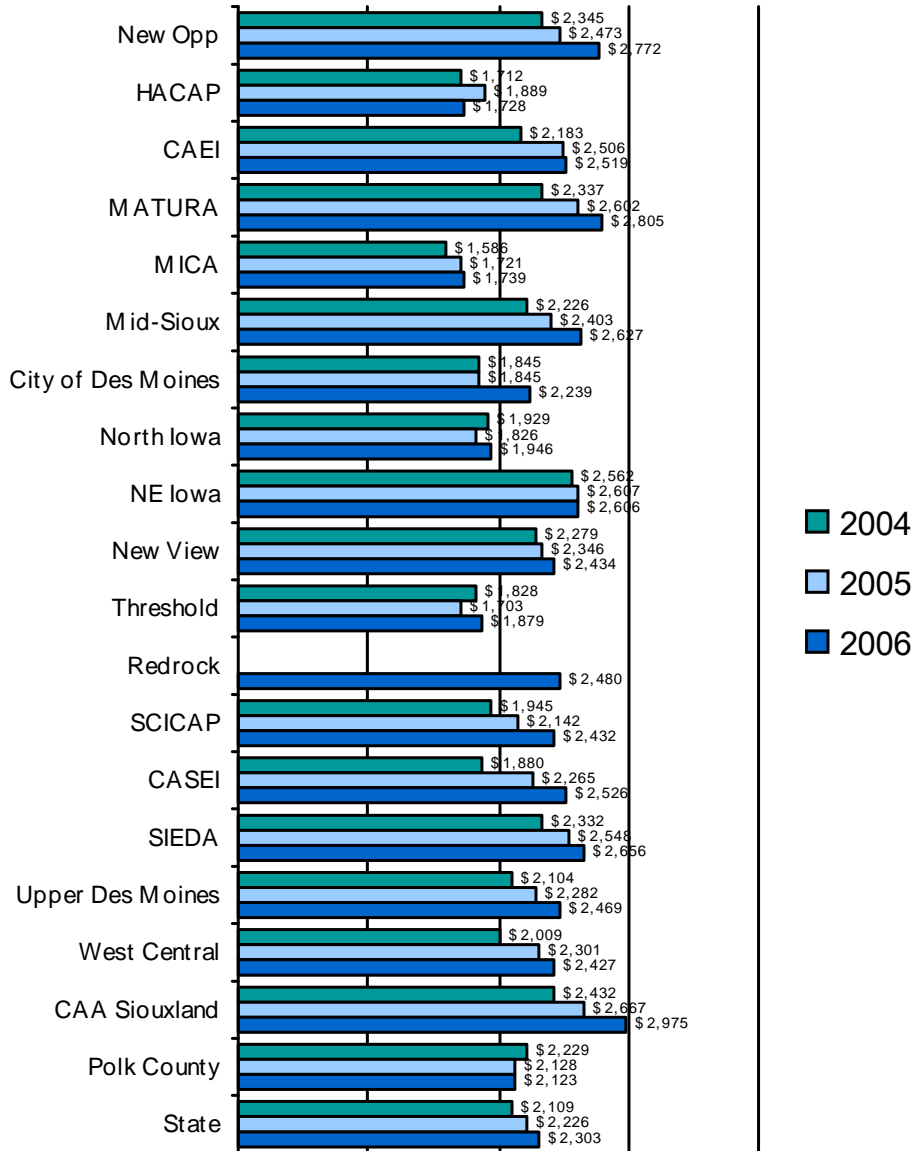
Figure 2.16b. Average Cost of Floor/Crawlspace Insulation – Utility Dollars per Dwelling



Furnace Replacement Expenditures

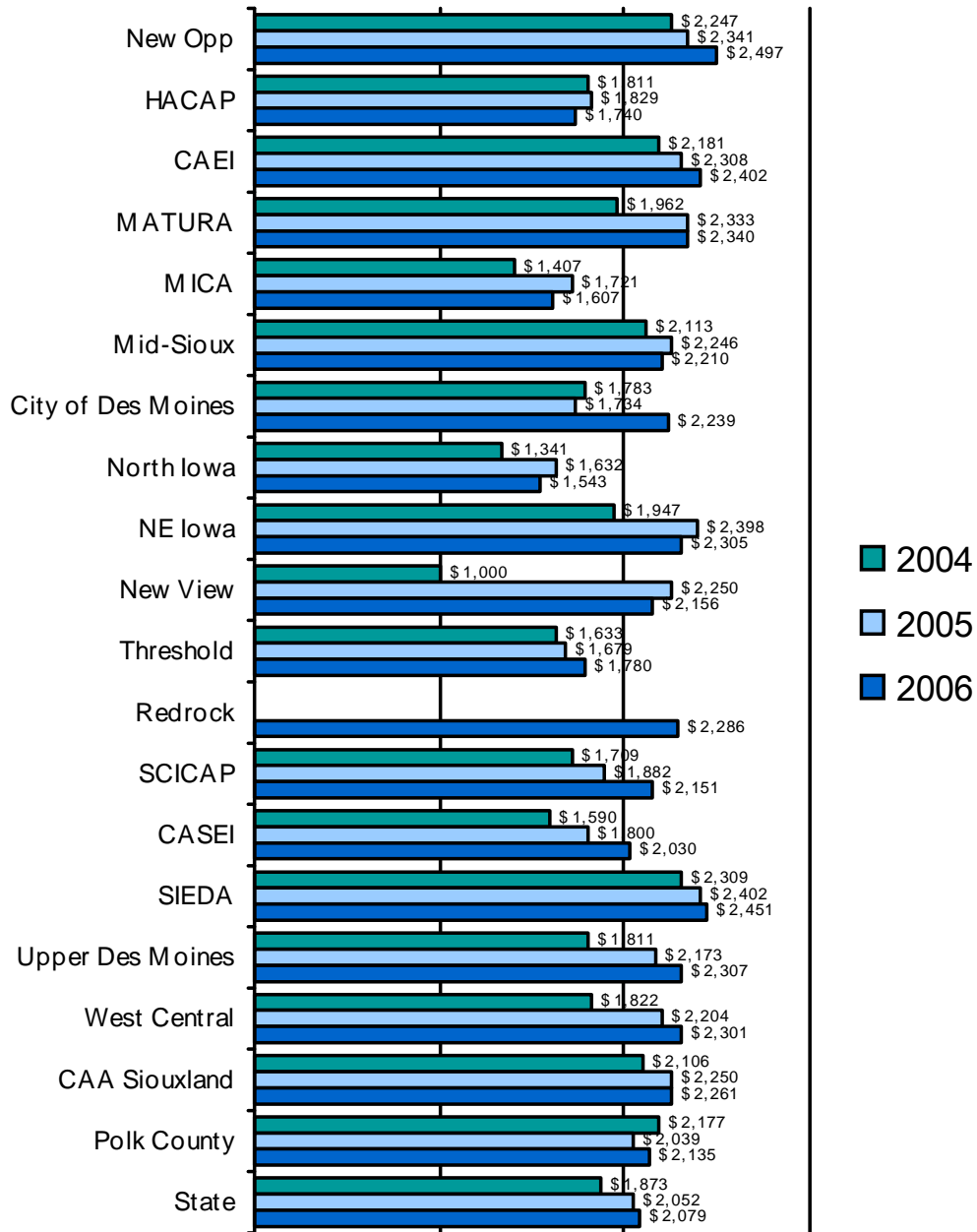
Figures 2.17a and 2.17b show average expenditures for furnace replacements. Statewide average furnace replacement costs increased to \$2,303 in 2006 from \$2,226 the previous year (Figure 2.17a). On average, CAA Siouxland, MATURA, and New Opportunities spent in excess of \$2,770 per dwelling. HACAP and MICA each spent less than \$1,740 on average.

Figure 2.17a. Average Cost of Heating System Replacements – Dollars per Dwelling



All agencies reported *utility-funded* furnace replacements for households with weatherization completed during that year. Figure 2.17b shows the average utility funding for replacement heating systems, which averaged \$2,079 statewide. New Opportunities and SIEDA averaged the most, at \$2,496 and \$2,450, respectively, on utility expenditures for heating system replacements. On the lower end, North Iowa and MICA averaged \$1,543 and \$1,607, respectively for utility-funded heating system replacements.

Figure 2.17b. Average Cost of Heating System Replacements – Utility Dollars per Dwelling



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3. FUEL CONSUMPTION ANALYSIS AND ASSESSMENT OF AGENCY-LEVEL SAVINGS ADJUSTMENT FACTORS

The 1997 WAP report prompted a change in the methodology for estimating program savings. That study discussed the potential error from summarizing agency-level results from the SLICE-algorithm estimates, which were designed for state-level and utility-level reporting. The revised methodology incorporates agency-level adjustment factors for estimated natural gas savings. The adjustment factors are developed annually using weather-normalization analysis of client fuel consumption histories.

Fuel Consumption Analysis of Natural Gas Impacts

For this study, we developed adjustment factors for each agency using observed savings from a PRISM analysis of natural gas clients with dates of completion from January 1, 2006 to December 31, 2006. These adjustment factors were applied to estimated natural gas, propane, and fuel oil heating and insulation measures, and to natural gas and propane water heater measures.

We used a comparison group to adjust for non-program factors that could affect energy consumption. We assessed savings for a group of clients with similar characteristics to our treatment group, and netted the change in consumption from this comparison group from the WAP client group savings. 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.

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, 2006 through March, 2007. The purpose of the comparison group is to account for all non-weatherization program factors that affect fuel usage: examples are fuel price shocks, naturally-occurring conservation, and participation in other energy programs. The comparison group should be drawn from a sample of homes that are representative of the treatment group. Many energy evaluations use a comparison group that is composed of future weatherization participants – this essentially delays an assessment of impacts by a full year. The Iowa utilities require a more timely assessment of impacts, and consequently we use the population of LIHEAP (low income clients) that will be used to select the following year program. This group differs from the treatment group in a number of key respects, including housing type, home ownership (rent, own, other), and household size, and as a consequence of these differences, energy consumption tends to be lower for this group. Our analysis accounts for these differences by weighting each comparison group dwelling according to the characteristics in the treatment group on these key characteristics.

Methodology

We assessed impacts for changes in natural gas consumption using the methodology reported in detail in previous studies. Pre- and post-weatherization gas consumption was weather-normalized using PRISM. We used the same ten weather zones that we used in previous studies (Figure 3.1). Our long-term normal datasets for this year's analysis used the 10-year period ending in Dec, 2002.

As noted above, we weighted comparison group dwellings on key structural/household respects and baseline consumption. These procedures are inherently superior to those used in previous years, providing better matches between the treatment and comparison groups. We found somewhat higher values of naturally-occurring conservation in the comparison group using the improved procedures, which nullifies some of the treatment group impacts. *As a result, net program savings are somewhat lower than they would have been using the previous methodology (by 17 therms on average). Consequently,*

reduced savings reported herein are not indicative of changes in program performance, but rather reflect the changes in the billing analysis methodology.

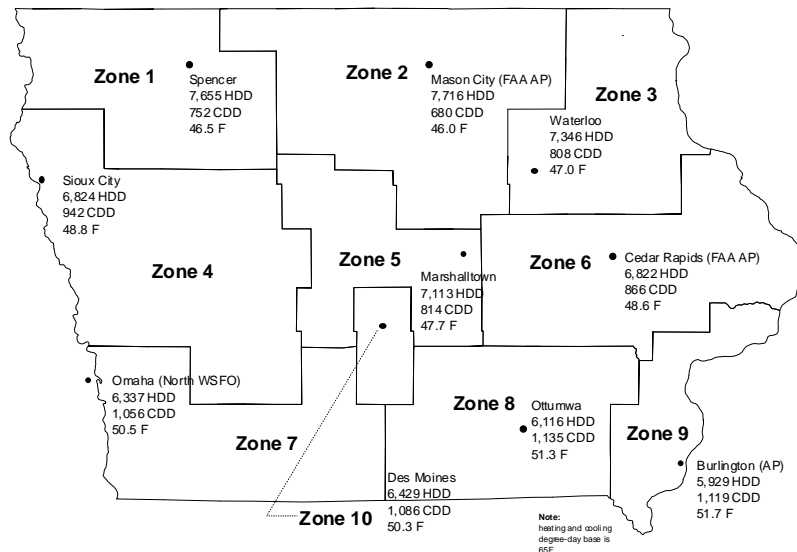


Figure 3.1 Weather zones used for the PRISM analysis

Study Sample

Of 1,826 weatherization client households with gas heating, we had pre- and post-billing data for 814. In addition, we had pre- and post-billing data for 27,956 comparison group dwellings. The PRISM models were screened to include only those dwellings with a minimum R^2 of 0.70 on modeled consumption and a maximum coefficient of variation on normalized annual consumption (NAC) of 8.0 on both the pre- and post- PRISM models. Our analysis set after screening included 561 WAP client dwellings and 14,350 comparison group dwellings (LIHEAP clients).

Results

Our results are summarized in Table 3.1. 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.

We show a similar range of values for the comparison group, however there are some differences. The ‘Un-weighted Baseline’ provides a value that does not weight each dwelling according to housing type, homeownership, the number of persons in each household, and annual consumption. The ‘Weighted Baseline’ applies the weighting factors, resulting in a value that is approximately the same as the Baseline Consumption for the Treatment Group.

The next section of Table 3.1 shows the comparison-group adjusted savings and percentage savings, each with 90% confidence intervals. The rightmost section summarizes our estimated savings for the Treatment Group, and the realization rate. The realization rate is defined as the ratio of observed savings to estimated savings. By adjusting our estimated savings for natural gas with these realization rates, we help assure that savings reported for each agency are approximately correct.

Table 3.1 Fuel Consumption Analysis Results

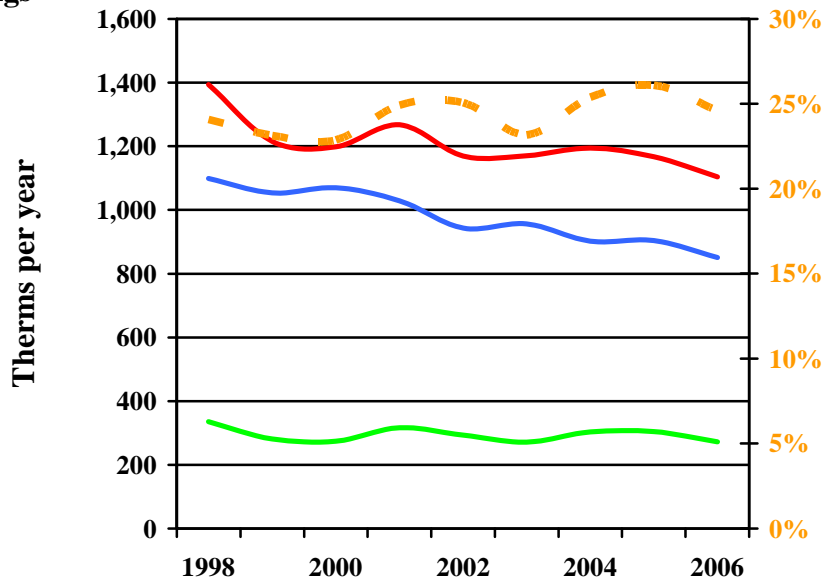
	Population n (with gas heating source)	Treatment Group					Comparison Group						90% CI							
		Baseline Cons. n	90% CI	Savings (therms)	90% CI	Un-weighted Baseline Cons. n	Weighted Baseline Cons. (therms)	Weighted 90% CI	Weighted Savings (therms)	90% CI	Adjusted Savings (therms)	90% CI	Percent Savings (%)	on Pct Savings (%)	Average			90% CI on RR (%)		
															Estimated Savings (therms)	90% CI	Realization Rate (%)			
Agency																				
<i>New Opp (in Aggregate)</i>	53	8	1,349	202	113	161	45	892	1,265	55	51	42	59	162	4.4	12.0	419	99	14.1%	37.9%
HACAP	219	38	1,200	112	388	83	482	797	1,204	35	87	16	301	83	25.1	6.0	446	72	67.5%	16.8%
CAEI	158	57	943	80	283	44	1,029	822	925	19	29	9	254	42	26.9	3.4	263	31	96.6%	12.2%
<i>MATURA (in Aggregate)</i>	34	10	951	186	193	90	51	844	872	71	-7	22	201	90	21.2	7.8	265	69	76.0%	33.9%
MICA	126	52	1,080	75	344	58	366	853	1,067	30	48	14	296	57	27.4	4.5	316	44	93.5%	16.4%
<i>Mid-Sioux (in Aggregate)</i>	42	6	1,465	230	494	284	12	847	1,533	126	97	98	402	285	27.4	20.3	267	67	150.4%	102.5%
City of Des Moines	54	17	1,324	143	446	73	250	893	1,363	47	-30	27	475	112	35.9	7.7	445	64	106.9%	19.9%
North Iowa	126	53	1,172	66	336	57	425	865	1,167	20	51	14	285	63	24.3	4.9	315	31	90.5%	17.1%
NE Iowa	76	26	1,141	137	318	101	240	879	1,041	40	38	20	276	105	24.2	7.9	412	65	67.1%	21.0%
<i>New View (in Aggregate)</i>	76	12	1,108	191	175	154	69	852	1,066	75	78	35	93	150	8.4	13.2	248	58	37.6%	56.9%
Threshold	131	44	1,133	103	282	60	354	883	1,126	37	41	15	241	60	21.2	4.7	293	34	82.2%	18.3%
<i>Redrock (in Aggregate)</i>	55	8	1,190	221	239	106	77	779	1,225	83	36	42	204	166	17.1	14.0	453	228	45.0%	43.0%
<i>SCICAP (in Aggregate)</i>	18	2	1,596	66	592	16	1	797	1,463	0	-12	0	605	8	37.9	0.3	833	560	72.6%	26.0%
<i>CASEI (in Aggregate)</i>	107	14	1,434	160	523	141	54	861	1,312	70	65	62	452	184	31.6	12.6	461	89	98.1%	38.6%
SIEDA	136	46	829	89	170	48	370	813	853	28	8	11	162	50	19.6	5.1	208	37	78.0%	18.3%
Upper Des Moines	98	36	1,086	71	293	64	566	944	1,072	21	39	13	253	71	23.3	6.4	357	43	71.0%	21.7%
West Central	116	50	1,038	88	227	49	867	817	1,041	24	9	9	218	53	21.0	4.5	289	36	75.5%	14.3%
CAA Siouxland	78	40	1,144	53	361	48	219	895	1,099	22	10	20	350	74	30.6	6.4	293	30	119.7%	22.0%
Polk County	123	42	1,179	70	335	70	468	893	1,222	27	36	15	301	79	25.5	6.1	330	36	91.2%	22.9%
Aggregate ¹	385	60	1,253	82	305	66	1,612	837	1,232	17	50	9	254	67	20.3	5.1	372	49	68.3%	17.2%
Overall	1,826	561	1,104	25	305	17	14,350	851	1,100	5	33	3	272	17	24.6	1.4	323	13	84.3%	4.6%

¹ The results for some agencies showed exceptionally high variability, due to small numbers of dwellings in the sample and high variability in the impacts of those dwellings. The results for these agencies, italicized in the table, comprise the 'Aggregate' results. The 'Aggregate' results were used to adjust impacts for these agencies.

The overall adjusted savings averaged 272 therms per dwelling. The 90% confidence interval was 17 therms, meaning that we are 90% certain that the true population mean savings falls in the range of 255 therms and 289 therms. The overall percentage savings was 24.6%, with a 1.4% confidence interval. The baseline consumption of weatherized dwellings was 1,104 therms per year. The unweighted baseline consumption of the comparison group was 851 therms, however the weighted baseline consumption was 1,100 therms – this compares very well with the baseline of the treatment group (1,104 therms) and essentially validates that our weighting procedures effectively adjusted for major differences in the treatment and comparison groups.

Figure 3.2 provides a yearly summary of baseline consumption, savings, and percentage savings for billing analyses conducted since the calendar year 1998 program. Baseline consumption of the treatment group has declined by 21% since 1998, and the comparison group baseline has declined by 23%. In spite of these declines, net savings and percentage savings remain relatively flat throughout the nine-year period.

Figure 3.2 Annual Baseline, Savings, and Percentage Savings



— Treatment — Comparison — Net Savings — Pct Savings

Implications of aggregating agencies to determine adjusted impacts

As noted previously, we assessed agency-specific impacts in order to provide guidance on their respective performance. As has been done in past studies, we combined agencies into a single ‘Aggregate’ agency if the agency-specific results were too variable. These agencies included New Opportunities, MATURA, Mid-Sioux, New View, Red Rock, SCICAP, and CASEI. The realization rate for the ‘Aggregate’ group was used to adjust savings for these agencies for purposes of this report. Note that the results for seven of the agencies are italicized in Table 3.1.

In this year’s analysis, we found that the agency-specific adjusted savings determined in the billing analysis (column labeled ‘Adjusted Savings’ in Table 3.1) vary across an extraordinarily

wide range for the seven agencies in the ‘Aggregate’ group, from 59 therms for New Opportunities to 605 therms for SCICAP. The net effect of grouping the agencies is that the adjusted impacts of the better-performing agencies may be understated, and the impacts for the poorer-performing agencies may be overstated.

Table 3.2 provides a basis for understanding the implications of aggregating the agencies. The first column shows the savings that were determined through the billing analysis. The second column shows the savings which were determined using the aggregate adjustment (used to adjust impacts for this report). The third column shows the difference of the previous two columns. The fourth column provides an assessment of whether the final (aggregate-adjusted) impacts overstate or understate impacts relative to the agency-specific assessments.

Table 3.2 Comparison of Agency-Specific Results to Aggregate-adjusted Agency Results

	Savings using agency-only results (therms)	Savings using Aggregate Adjustment Factor (therms)	Difference between agency-specific results and aggregate-adjusted results	Result
New Opp	59	286	227	Overstated
New View	93	170	76	Overstated
MATURA	201	181	-20	
Redrock	204	309	105	Overstated
Mid-Sioux	402	182	-219	Understated
CASEI	452	315	-138	Understated
SCICAP	605	568	-36	

We found that the impacts for Mid-Sioux and CASEI are likely to be understated by a large margin. The adjusted savings used in this report for Mid-Sioux (based upon only six dwellings) may be understated by as much as 55%. The adjusted savings for CASEI may be understated by 31%, based upon results for fourteen dwellings.

On the other end of the spectrum, the aggregate-adjusted savings of New Opportunities, New View, and Red Rock may be overstated by a significant margin. Savings reported herein may be overstated by 82% for New View (based on results for 12 dwellings), and 51% for Red Rock (based upon 8 dwellings).

The eight dwellings treated by New Opportunities averaged only 59 therms: the aggregate-adjusted impacts may overstate impacts of this agency by 385%. We discussed the relatively lower savings attained by New Opportunities with DCAA, and found that five of the eight dwellings were recorded with some degree of failure, and were to be revisited. We don’t have record of when the dwellings were revisited, so these results may not be representative of the long-term savings for the dwelling weatherized by this agency.

As a result of aggregating these agencies, it is important to consider that the adjusted impacts are likely to be *overstated* by a considerable margin for New Opportunities, and to a lesser extent New View and RedRock. The impacts for others, (particularly Mid-Sioux, and to a lesser extent CASEI) are likely to be *understated*. All of the agency-specific results for total energy savings and client bill savings reported herein for these agencies in particular (including the agency-specific detail provided in Sections 5 and 6) are subject to interpretation of over/understatement as noted above.

Importance of Targeting High Users

In previous studies we have emphasized the importance between savings and pre-weatherization energy consumption: in general, higher pre-weatherization consumption yields greater savings. The WAP prioritizes on energy consumption so that higher consumption dwellings are given precedence over lower consumption dwellings. In practice, the prioritization list is a guideline, and various issues arise that may cause the agency to pick a dwelling lower on the priority list.

For agencies that follow the prioritization list closely, we would expect that the average treatment group consumption to the comparison group consumption in the pre-weatherization period, and the greater the differences between the treatment and comparison group, the more effective the targeting of the highest energy users.

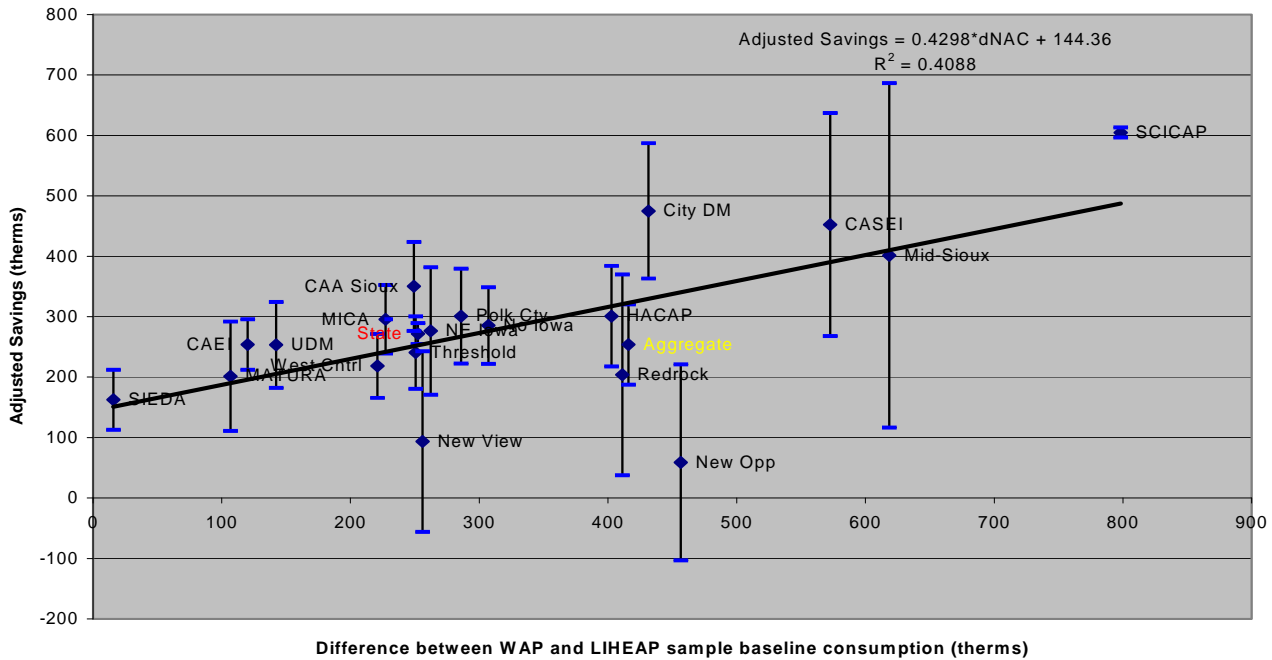


Figure 3.3 Savings in relation to the difference between WAP and LIHEAP client usage.

We plotted the relationship between savings and the difference in average energy consumption between the treatment and comparison groups in Figure 3.2. *We have included impacts for the agencies that are included in the aggregate group, as well as the aggregate group itself* and the state overall. In addition we regressed a line through the groups indicated in Table 1. The 90% confidence interval on the adjusted savings is shown as the range between the upper and lower triangles for each point and signifies the range for which we are 90% certain that the true agency average savings falls within.

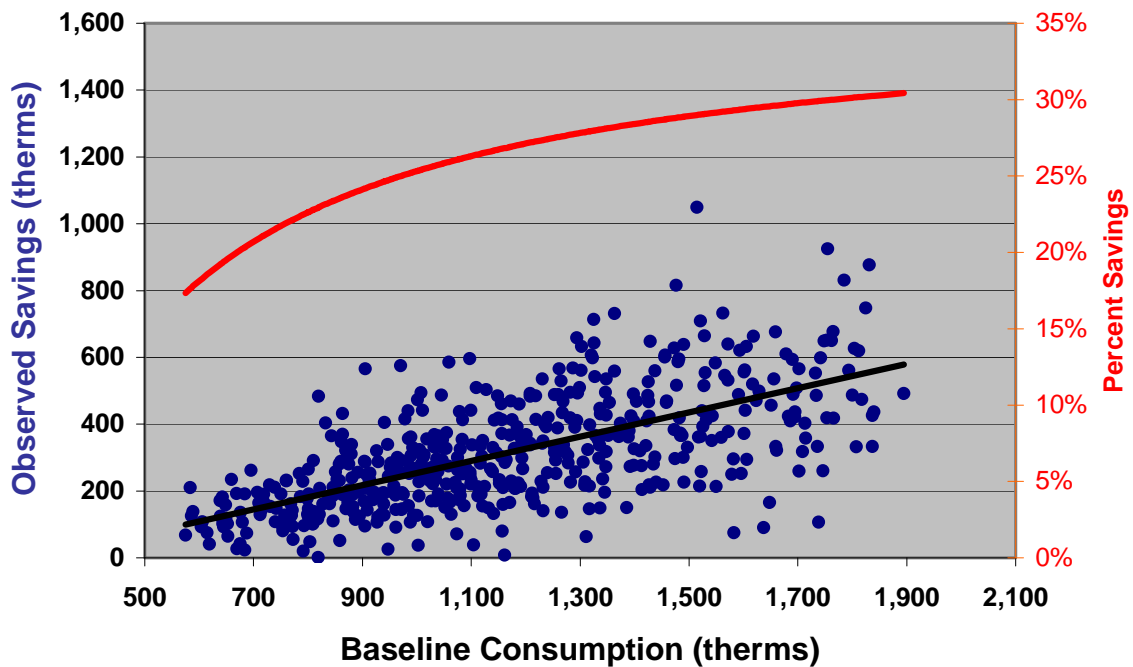
The chart demonstrates the potential savings that can be attained by targeting clients with the highest energy consumption, where the greater difference (shown on the 'x' axis) is indicative of more effective targeting. These findings affirm our previous analysis that concluded targeting the highest usage households substantially increases the average household savings.

Figure 3.4 provides another view of the benefits of targeting higher users by illustrating the relationship between baseline consumption, savings, and percentage savings. The plot shows a

point for the adjusted savings for dwellings weatherized in CY 2005, and a regression line through the 'cloud' of points, and an assessment of the percentage savings as determined by this regression line.

Not only do absolute savings increase as higher-consumption dwellings are targeted, but the percentage savings also increase. Percentage savings appears to reach a maximum at around 30%.

Figure 3.4 Relationship between baseline consumption, savings, and percentage savings



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4. 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 2006
Costs, Fuel, and Demand Impacts for All Measures**

Measure	Number of Households with Impacts						Count of Households with Electricity Impacts by End-Use		Spending on Materials & Labor (\$)	Estimated First-Year Savings						Average Estimated First Year Measure Cost and Savings Average per Treated Household										
	Total	Electric	Gas	Propane	Fuel Oil	Other	Cooling	Heating		Electricity		Annua kWh	Gas		Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor (\$)	Electricity		Annua kWh	Gas		Propane gallons	Fuel Oil gallons	Other Mbtu
										Summer kW	Winter kWh		Pk-Day therms	Annua therms					Summer kW	Winter kWh		Pk-Day therms	Annua therms			
OVERALL	2,144	2,138	1,826	251	21	0	1,801	2,119	8,812,758	452.5	588.9	2,776,170	4,916	475,837	60,496	3,639	0	4,110.43	0.213	0.275	1,298	2,692	261	241	173	-
Shell & Htg. Sys.	2,135	2,123	1,793	250	21	0	1,801	2,119	7,348,910	245.4	267,431	2,261.1	4,762	442,780	58,897	3,639	0	3,442.11	0.136	0.154	239	365	261	236	173	-
Wall Insul.	1,409	1,409	1,222	143	17	0	1,211	1,408	1,666,176	95.78	104,311	103.21	1,489	138,667	15,512	1,294	0	1,182.52	0.079	0.073	114	189	113	108	76	-
Ceiling Insul.	1,840	1,840	1,556	202	20	0	1,576	1,835	1,545,337	128.32	139,439	93.12	731	68,086	9,173	621	0	839.89	0.081	0.051	79	155	44	45	31	-
Infltr. Reduction	2,034	2,034	1,672	241	21	0	1,737	1,996	893,549	16.29	17,788	52.65	619	57,477	8,858	388	0	439.31	0.009	0.026	41	49	0.370	34	18	-
Found./Crawl. Insul.	846	846	694	118	8	0	721	846	519,921	4.97	5,293	43.81	67,461	72,754	288	26,552	6,133	614.56	0.007	0.052	80	86	0.415	38	52	24
Bandjoist Insul.	930	930	783	115	10	0	-	930	98,257	0.00	0	4.28	6,670	6,670	46	4,283	662	105.65	-	0.005	7	7	0.059	5	6	4
Hi-Eff Htg Sys Repl	979	0	879	94	6	0	-	0	2,165,464	0.00	0	0.00	0	1,403	130,471	13,362	2,211.91	-	-	-	-	1,596	148	142	109	-
Std-Eff Htg Sys Repl	228	0	163	59	6	0	-	0	431,251	0.00	0	0.00	0	186	17,244	5,178	1,691.45	-	-	-	-	1,140	106	88	76	-
Electric Htg Sys Repl	3	3	0	0	0	0	-	3	3,074	0.00	8.42	12,850	0	0	0	0	1024.75	-	2.805	4,283	-	-	-	-	-	-
Heat Pump Rep	9	9	0	0	0	0	-	9	25,822	0.00	20.65	32,172	0	0	0	0	2,869.08	-	2.294	3,575	3,575	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0.00	0	0.00	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-

Measure	Number of Households with Impacts						Number of Measures by Fuel Type						Spending on Materials & Labor (\$)	Estimated First-Year Savings						Average Estimated First Year Measure Cost and Savings Average per Treated Household									
	Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kWh	Annua kWh	Pk-Day therms	Annua therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor (\$)	Summer kW	Winter kWh	Annua kWh	Pk-Day therms	Annua therms	Propane gallons	Fuel Oil gallons
Water Heating	1,717	458	1,218	41	0	0	2,740	657	1,996	87	0	0	555,098	0.0	4.3	219,534	154.7	33,058	1,599	0	0	323.30	0.000	0.009	479	0.127	27	39	-
Temp. Reduct.	10	0	10	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.5	179	0	0	0	0.00	-	-	-	0.052	18	-	-	-
WH Wrap	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.	1,239	296	915	28	0	0	0	0	0	0	0	5,625	0.00	0.06	29,112	11.6	4,029	123	0	0	4.54	0.000	0.000	98	0.013	4	4	-	
LF Showerhead	526	149	361	16	0	0	546	155	374	17	0	0	4,340	0.00	2.47	108,535	26.3	8,094	375	0	8.25	0.000	0.017	728	0.073	22	23	-	
Faucet Aerator	787	180	583	24	0	0	1,315	294	979	42	0	0	3,349	0.00	0.43	18,822	5.8	1,781	75	0	4.26	0.000	0.002	105	0.010	3	3	-	
Std-Eff Wtr Htr Repl.	319	149	140	26	0	0	315	149	140	26	0	0	215,201	0.00	0.87	43,875	26.1	4,702	937	0	695.98	0.000	0.006	294	0.186	34	36	-	
Hi-Eff Wtr Htr Repl.	417	57	358	2	0	0	564	59	503	2	0	0	322,583	0.00	0.47	19,189	84.5	14,273	88	0	773.58	0.000	0.008	337	0.236	40	44	-	
Lighting	1,917	1,917	0	0	0	0	14,418	14,418	0	0	0	92,836	71.0	131.2	676,317	-	-	-	-	-	48.43	0.037	0.068	353	-	-	-	-	
CapsyLite (42W)	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CapsyLite (52W)	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CapsyLite (72W)	5	5	0	0	0	0	635	5	5	0	0	167	0.00	0.03	167	-	-	-	-	-	126.99	0.004	0.006	33	-	-	-	-	-
CapsyLite, unknown	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (5W)	2	2	0	0	0	0	9	9	9	0	0	60	0.02	0.03	157	-	-	-	-	-	30.00	0.008	0.015	78	-	-	-	-	-
CFL (7W)	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (9W)	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
CFL (11W)	79	79	0	0	0	0	318	318	0	0	0	1,800	0.81	1.49	7,671	-	-	-	-	-	22.79	0.010	0.019	97	-	-	-	-	-
CFL (14W)	91	91	0	0	0	0	539	539	0	0	0	3,272	2.18	4.03	20,796	-	-	-	-	-	35.96	0.024	0.044	229	-	-	-	-	-
CFL (15W)	741	741	0	0	0	0	4,800	4,800	0	0	0	26,353	19.46	35.95	185,320	-	-	-	-	-	35.56	0.026	0.049	250	-	-	-	-	-
CFL (18W)	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-
CFL (20W)	663	663	0	0	0	0	4,401	4,401	0	0	0	31,535	20.99	38.78	199,920	-	-	-	-	-	47.56	0.032	0.058	302	-	-	-	-	-
CFL (23W)	563	563	0	0	0	0	3,271	3,271	0	0	0	21,919	19.70	36.39	187,582	-	-	-	-	-	38.93	0.035	0.065	333	-	-	-	-	-
CFL (25W)	223	223	0	0	0	0	1,065	1,065	0	0	0	7,174	7.72	14.27	73,567	-	-	-	-	-	32.17	0.035	0.064	330	-	-	-	-	-
CFL (30W)	8	8	0	0	0	0	10	10	0	0	0	88	0.12	0.22	1,138	-	-	-	-	-	11.01	0.015	0.028	142	-	-	-	-	-
CFL, unknown	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-
Waterbed Mattress Pad	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	-	-	-	-	-	-	-	-
King	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Double	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Single	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
Refrigerator/Freezer	1,102	1,102	0	0	0	0	1,762	1,762	0	0	0	815,915	136.08	127.23	1,106,373	-	-	-	-	-	740.39	0.123	0.115	1,004	-	-	-	-	
Refrigerator Remova	26	26	0	0	0	0	26																						

**Interstate Power and Light Co.
Calendar Year 2006
Costs, Fuel, and Demand Impacts for Utility-Funded Measures**

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use			Spending on Materials & Labor (\$)	Estimated First-Year Savings						Average Estimated First Year Measure Cost and Savings Average per Treated Household							
	Total	Electric	Gas	Cooling	Heating			Electricity		Annual kWh	Pk-Day therms	Annual therms	Spending on Materials & Labor (\$)	Electricity		Annual kWh	Pk-Day therms	Annual therms			
								Summer kWh	Winter kWh					Summer kWh	Winter kWh						
OVERALL	1,057	938	570				2,047,558	151.4	194.7	971,173	1,217	118,328	1937.14	0.162	0.211	1,035	2,135	208			
Shell & Htg. Sys.	935	810	558	722	463		1,633,243	69.8	84,231	88.6	135,758	219,990	1,181	110,364	1746.78	0.097	0.191	293	272	2,117	198
Wall Insul.	616	548	391	484	332		480,026	30.38	36,644	32.40	49,194	85,838	461	43,075	775.26	0.063	0.088	148	157	1,179	110
Ceiling Insul	799	711	475	629	413		423,852	37.44	45,155	35.44	54,993	100,148	222	20,772	530.48	0.060	0.086	133	141	0.466	44
Infl. Reductor	0	0	0	0	0		14	0.00	0	0.00	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	387	342	223	314	190		152,483	2.02	2,432	18.93	28,745	31,177	89	8,130	394.01	0.006	0.010	151	91	0.397	36
Bandjoist Insul.	269	230	258	-	230		32,523	0.00	0	0.00	0	2,826	15	1,422	120.90	-	0.008	12	12	0.060	6
Hi-Eff Htg Sys Repl	269	0	269	-	0		544,346	0.00	0	0.00	0	0	395	36,964	2023.59	-	-	-	-	1.468	137
Std-Eff Htg Sys Repl	0	0	0	-	0		0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0		0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-
Heat Pump Rep	0	0	0	-	0		0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0		0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-
	Total	Electric	Gas	Number of Measures by Fuel Type				Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms			
Water Heating	497	100	397	668	130	538	78,207	0.0	0.9	43,803	35.7	7,964	157.36	0.000	0.009	438	0.090	20			
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.	360	70	290	1,511	130	114	1,511	0.00	0.01	6,885	3.7	1,296	4.20	0.000	0.000	98	0.013	4			
LF Showerhead	151	38	113	155	41	114	1,078	0.00	0.58	25,491	8.0	2,472	7.14	0.000	0.015	671	0.071	22			
Faucet Aerator	237	40	197	385	67	318	798	0.00	0.09	4,022	2.0	618	3.37	0.000	0.002	101	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.	128	22	106	128	22	106	74,821	0.00	0.18	7,406	21.9	3,578	584.54	0.000	0.008	337	0.207	34			
Lighting	840	840		6,770	6,770		40,419	31.8	58.7	302,652	-	-	48.12	0.038	0.070	360	-	-			
Capsyrite (42W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Capsyrite (52W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Capsyrite (72W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Capsyrite, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (5W)	1	1		1	1		4	0.00	0.00	17	-	-	4.00	0.002	0.003	17	-	-			
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)	25	25		89	89		272	0.24	0.45	2,312	-	-	10.87	0.010	0.018	92	-	-			
CFL (14W)	9	9		81	81		272	0.30	0.56	2,883	-	-	30.26	0.034	0.062	320	-	-			
CFL (15W)	398	398		2,790	2,790		14,065	11.20	20.69	106,656	-	-	35.34	0.028	0.052	268	-	-			
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (20W)	253	253		2,202	2,202		15,208	9.88	18.25	94,091	-	-	60.11	0.039	0.072	372	-	-			
CFL (23W)	159	159		1,093	1,093		7,215	6.45	11.91	61,382	-	-	45.37	0.041	0.075	386	-	-			
CFL (25W)	122	122		505	505		3,306	3.60	6.65	34,294	-	-	27.10	0.030	0.055	281	-	-			
CFL (30W)	7	7		9	9		78	0.11	0.20	1,018	-	-	11.15	0.015	0.028	145	-	-			
CFL, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Refrigerator/Freezer	478	478		569	569		295,689	49.78	46.54	404,729	-	-	618.60	0.104	0.097	847	-	-			
Refrigerator Remova	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Refrigerator Exchange	417	417		417	417		239,444	39.01	36.47	317,132	-	-	574.21	0.094	0.087	761	-	-			
Freezer Remova	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Freezer Exchange	152	152		152	152		56,244	10.77	10.07	87,597	-	-	370.03	0.071	0.066	576	-	-			
Costs for Measures Without Energy Impacts Installed in 1061 Total Households with Spending and/or Energy Impacts:																					
Total							388,666														
Unspecified Insul.	4						148						36.94								
Duct Insulation	0						0						0.00								
Duct Sealing	1						17						16.95								
Damming Materia	0						0						0.00								
Htg. Sys. Tune & Clean	0						0						0.00								
Htg. Sys./WH Other	0						0						0.00								
Space Heater Repl	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								
Unspecified Utility Meas	0						0						0.00								
Asbestos Abatement	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								
Exhaust Ventilator	195						25,639						131.48								
Health/Safety Repair	0						0						0.00								
Health/Safety Other	0						0						0.00								
Consumables	0						0						0.00								
Preservation	0						0						0.00								
Roof Repairs	0						0						0.00								
General Repairs	562						120,772						214.90								
Evaluator Labor	0						0						0.00								
Inspector Labor	0						0						0.00								
Eval/Insp Labor	0						0						0.00								
Meter Refrig (no action)	0						0						0.00								
Meter Freezer (no action)	0																				

Interstate Power and Light Co.
Calendar Year 2006
Fuel and Demand Impacts For All Customer Households From All Funding Sources

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use			Spending on Materials & Labor (\$)	Estimated First-Year Savings						Average Estimated First Year Measure Cost and Savings Average per Treated Household								
	Total	Electric	Gas	Cooling	Heating	Other		Electricity		Annual kWh	Pk-Day therms	Annual therms	Spending on Materials & Labor (\$)	Electricity		Annual kWh	Pk-Day therms	Annual therms				
								Summer kWh	Winter kWh					Summer kWh	Winter kWh							
OVERALL	1,101	976	610				0	185.6	291.4	1,348,150	1,651	160,740	0.00	0.191	0.299	1,381	2,706	264				
Shell & Htg. Sys.	1,096	970	597	826	967		0	86.4	104,250	185.4	254,794	359,044	1,596	149,202	0.00	0.105	126	263	370	2,674	250	
Wall Insul.	704	629	427	546	629		0	35.54	42,868	51.54	79,273	122,141	512	47,913	0.00	0.065	79	0.082	126	194	1,199	112
Ceiling Insul	916	815	518	698	814		0	42.85	51,881	45.73	71,105	122,788	247	23,155	0.00	0.061	74	0.056	87	151	0,477	45
Infil. Reductor	1,041	930	544	798	899		0	5.59	6,743	28.79	44,417	51,160	226	21,050	0.00	0.007	8	0.032	49	55	0,415	39
Found./Crawl. Insul.	460	408	252	352	408		0	2.45	2,958	23.80	36,298	39,256	99	9,079	0.00	0.007	8	0.058	89	96	0,392	36
Bandjoist Insul.	514	466	296	-	466		0	0.00	0	2.62	4,086	4,086	18	1,650	0.00	-	-	0.006	9	9	0,060	6
Hi-Eff Htg Sys Repl	288	0	288	-	0		0	0.00	0	0.00	0	0	450	42,224	0.00	-	-	-	-	-	1,554	147
Std-Eff Htg Sys Repl	35	0	35	-	0		0	0.00	0	0.00	0	0	45	4,130	0.00	-	-	-	-	-	1,275	118
Electric Htg Sys Repl	2	2	0	-	2		0	0.00	0	5.77	8,668	8,668	0	0	0.00	-	-	2.884	4,334	4,334	-	-
Heat Pump Repl	3	3	0	-	3		0	0.00	0	7.17	10,946	10,946	0	0	0.00	-	-	2.391	3,649	3,649	-	-
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 kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms				
Water Heating	775	289	486	1,154	417	737	0	0.0	2.9	136,471	54.3	11,537	0.00	0.000	0.010	472	0.112	24				
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.	548	163	385				0	0.00	0.03	16,031	5.0	1,743	0.00	0.000	0.000	98	0.013	5				
LF Showerhead	221	88	133	236	93	143	0	0.00	1.38	60,673	9.7	2,994	0.00	0.000	0.016	689	0.073	23				
Faucet Aeratoi	331	105	225	530	162	368	0	0.00	0.23	10,080	2.4	727	0.00	0.000	0.002	95	0.010	3				
Std-Eff Wtr Htr Repl.	140	107	33	140	107	33	0	0.00	0.78	31,507	7.1	1,162	0.00	0.000	0.007	284	0.216	35				
Hi-Eff Wtr Htr Repl.	175	54	121	248	55	193	0	0.00	0.45	18,179	30.1	4,911	0.00	0.000	0.008	337	0.249	41				
Lighting	878	878		7,059	7,059		0	33.3	61.5	316,813	-	-	0.00	0.038	0.070	361	-	-				
CapsyLite (42W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CapsyLite (52W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CapsyLite (72W)	3	3	0	3	3	0	0	0.01	0.02	95	-	-	0.00	0.003	0.006	33	-	-				
CapsyLite, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CFL (5W)	1	1	1	1	1	1	0	0.00	0.00	17	-	-	0.00	0.002	0.003	17	-	-				
CFL (7W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CFL (9W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CFL (11W)	25	25	89	89	89	0	0	0.24	0.45	2,312	-	-	0.00	0.010	0.018	92	-	-				
CFL (14W)	9	9	81	81	81	0	0	0.30	0.56	2,883	-	-	0.00	0.034	0.062	320	-	-				
CFL (15W)	416	416	2,935	2,935	2,935	0	0	11.78	21.76	112,190	-	-	0.00	0.028	0.052	270	-	-				
CFL (18W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CFL (20W)	256	256	2,222	2,222	2,222	0	0	9.98	18.43	95,025	-	-	0.00	0.039	0.072	371	-	-				
CFL (23W)	171	171	1,173	1,173	1,173	0	0	6.84	12.82	66,070	-	-	0.00	0.041	0.075	386	-	-				
CFL (25W)	130	130	546	546	546	0	0	3.91	7.22	37,199	-	-	0.00	0.030	0.056	286	-	-				
CFL (30W)	7	7	9	9	9	0	0	0.11	0.20	1,018	-	-	0.00	0.015	0.028	145	-	-				
CFL, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
Refrigerator/Freezer	532	532		976	976		0	65.91	61.62	535,822	-	-	0.00	0.124	0.116	1,007	-	-				
Refrigerator Remova	10	10	10	10	10	0	0	1.26	1.17	10,209	-	-	0.00	0.126	0.117	1,021	-	-				
Refrigerator Exchange	460	460	699	699	699	0	0	49.18	45.98	399,821	-	-	0.00	0.107	0.100	869	-	-				
Freezer Remova	13	13	13	13	13	0	0	1.14	1.07	9,263	-	-	0.00	0.088	0.082	713	-	-				
Freezer Exchange	176	176	254	254	254	0	0	14.33	13.40	116,529	-	-	0.00	0.081	0.076	662	-	-				
Costs for Measures Without Energy Impacts Installed in 1101 Total Households with Spending and/or Energy Impacts:																						
Total							0															
Unspecified Insul.							0															
Duct Insulation							0															
Duct Sealing							0															
Damming Materia							0															
Htg. Sys. Tune & Clean							0															
Htg. Sys./WH Other							0															
Space Heater Repl							0															
Air Conditioning Work							0															
Water Heater Repair							0															
Refrigerator Coil Clear							0															
Unspecified Utility Meas							0															
Asbestos Abatement							0															
CO Detector							0															
Smoke Detector							0															
Fuses							0															
Htg Sys Safety Check							0															
Exhaust Ventilator							0															
Health/Safety Repair							0															
Health/Safety Other							0															
Consumables							0															
Preservation							0															
Roof Repairs							0															
General Repairs							0															
Evaluator Labor							0															
Inspector Labor							0															
Eval/Insp Labor							0															
Meter Refrig (no action)							0															
Meter Freezer (no action)							0															
Support							0															
Landlord Contr Misc							0															
Landlord Contr Furnact							0															
Landlord Contr DHW							0															
Client Contr Misc							0															
Client Contr Refr							0															
Warehouse							0															
Unspecified							0															
Total Reported Materials, Labor, and Support Costs							0															
Grand Total of Expenditures							0															

Aquila Networks - PNG
Calendar Year 2006
Fuel and Demand Impacts For All Customer Households From All Funding Sources

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use			Spending on Materials & Labor (\$)	Estimated First-Year Savings					Average Estimated First Year Measure Cost and Savings Average per Treated Household						
	Total	Electric	Gas	Cooling	Heating	Other		Electricity		Annual kWh	Pk-Day therms	Annual therms	Spending on Materials & Labor (\$)	Electricity		Annual kWh	Pk-Day therms	Annual therms	
								Summer kWh	Winter kWh					Summer kWh	Winter kWh				
OVERALL	255	0	255				0	0.0	0.0	0	0	582	57,083	0.00	-	-	-	2,284	224
Shell & Htg. Sys.	255	0	255	0	0	0	0	0.00	0.00	0	0	568	54,085	0.00	-	-	-	2,226	212
Wall Insul.	164	0	164	0	0	0	0	0.00	0.00	0	0	162	15,447	0.00	-	-	-	0.990	94
Ceiling Insul	215	0	215	0	0	0	0	0.00	0.00	0	0	90	8,571	0.00	-	-	-	0.419	40
Infil. Reductor	244	0	244	0	0	0	0	0.00	0.00	0	0	74	7,100	0.00	-	-	-	0.305	29
Found./Crawl. Insul.	89	0	89	0	0	0	0	0.00	0.00	0	0	32	3,084	0.00	-	-	-	0.359	35
Bandjoist Insul.	96	0	96	-	0	0	0	0.00	0.00	0	0	5	507	0.00	-	-	-	0.055	5
Hi-Eff Htg Sys Repl	115	0	115	-	0	0	0	0.00	0.00	0	0	165	15,655	0.00	-	-	-	1.432	136
Std-Eff Htg Sys Repl	37	0	37	-	0	0	0	0.00	0.00	0	0	39	3,722	0.00	-	-	-	1.052	101
Electric Htg Sys Repl	0	0	0	-	0	0	0	0.00	0.00	0	0	0	0	0.00	-	-	-	-	-
Heat Pump Rep	0	0	0	-	0	0	0	0.00	0.00	0	0	0	0	0.00	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0	0.00	0.00	0	0	0	0	0.00	-	-	-	-	-
	Total	Electric	Gas	Total	Electric	Gas		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms	
Water Heating	131	0	131	225	0	225	0	0.0	0.0	0	14.8	2,998	0.00	-	-	-	0.113	23	
Temp. Reduct.	1	0	1	0	0	0	0	0.00	0.00	0	0.0	6	0.00	-	-	-	0.017	6	
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	
Pipe Insul.	92	0	92	0	0	0	0	0.00	0.00	0	1.2	412	0.00	-	-	-	0.013	4	
LF Showerhead	32	0	32	33	0	33	0	0.00	0.00	0	1.9	590	0.00	-	-	-	0.060	18	
Faucet Aeratoi	74	0	74	128	0	128	0	0.00	0.00	0	0.6	192	0.00	-	-	-	0.008	3	
Std-Eff Wtr Htr Repl.	18	0	18	18	0	18	0	0.00	0.00	0	3.8	621	0.00	-	-	-	0.211	34	
Hi-Eff Wtr Htr Repl.	31	0	31	46	0	46	0	0.00	0.00	0	7.2	1,178	0.00	-	-	-	0.233	38	
Lighting	0	0	0	0	0	0	0	0.0	0.0	0	-	-	0.00	-	-	-	-	-	
CapsyLite (42W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CapsyLite (52W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CapsyLite (72W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CapsyLite, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CFL (5W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CFL (7W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CFL (9W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CFL (11W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CFL (14W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CFL (15W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CFL (18W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CFL (20W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CFL (23W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CFL (25W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CFL (30W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CFL, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	
Refrigerator/Freezer	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
Refrigerator Remova	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
Refrigerator Exchange	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
Freezer Remova	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
Freezer Exchange	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	

Costs for Measures Without Energy Impacts Installed in 255 Total Households with Spending and/or Energy Impacts:

Total	0	0.00
Unspecified Insul.	0	0.00
Duct Insulator	0	0.00
Duct Sealing	0	0.00
Damming Materia	0	0.00
Htg. Sys. Tune & Clean	0	0.00
Htg. Sys./WH Other	0	0.00
Space Heater Repl	0	0.00
Air Conditioning Work	0	0.00
Water Heater Repair	0	0.00
Refrigerator Coil Clear	0	0.00
Unspecified Utility Meas	0	0.00
Asbestos Abatement	0	0.00
CO Detector	0	0.00
Smoke Detector	0	0.00
Fuses	0	0.00
Htg Sys Safety Check	0	0.00
Exhaust Ventilator	0	0.00
Health/Safety Repair	0	0.00
Health/Safety Other	0	0.00
Consumables	0	0.00
Preservation	0	0.00
Roof Repairs	0	0.00
General Repairs	0	0.00
Evaluator Labor	0	0.00
Inspector Labor	0	0.00
Eval/Insp Labor	0	0.00
Meter Refrig (no action)	0	0.00
Meter Freezer (no action)	0	0.00
Support	0	0.00
Landlord Contr Misc	0	0.00
Landlord Contr Furnace	0	0.00
Landlord Contr DHW	0	0.00
Client Contr Misc	0	0.00
Client Contr Refr	0	0.00
Warehouse	0	0.00
Unspecified	0	0.00

Total Reported Materials, Labor, and Support Costs 0

Grand Total of Expenditures 0

**MidAmerican Energy
Calendar Year 2006
Costs, Fuel, and Demand Impacts for Utility-Funded Measures**

Measure	Number of Households with Impacts			Count of Households by End-Use		Spending on Materials & Labor (\$)	Estimated First-Year Savings						Average Estimated First Year Measure Cost and Savings Average per Treated Household						
	Total	Electric	Gas	Cooling	Heating		Electricity		Annual kWh	Pk-Day therms	Gas Annual therms	Spending on Materials & Labor (\$)	Electricity		Annual kWh	Pk-Day therms	Gas Annual therms		
							Summer kWh	Winter kWh					Summer kWh	Winter kWh					
OVERALL	633	504	518			1,522,569	84.1		78.6		418,738	1,124	108,123	2,405.32	0.171	0.158	831	2,170	209
Shell & Htg. Sys.	593	466	510	392	391	1,348,170	51.0	61,456	32.4	50,534	111,991	1,094	100,764	2,273.47	0.130	0.083	129	240	198
Wall Insul.	388	322	333	270	270	397,728	20.17	24,321	17.35	27,198	51,519	424	39,227	1,025.07	0.075	0.064	101	160	127.5
Ceiling Insul	514	421	431	341	345	319,259	30.27	36,509	11.67	18,035	54,545	196	18,095	621.13	0.089	0.034	52	130	0.456
Infl. Reductor	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-
Found./Crawl. Insul.	205	145	175	112	116	91,270	0.52	626	2.86	4,543	5,169	69	6,315	445.22	0.005	6	0.025	39	36
Bandjoist Insul.	195	139	193	-	139	18,639	0.00	0	0.48	758	758	11	1,025	95.58	-	-	0.003	5	5
Hi-Eff Htg Sys Repl	246	0	246	-	0	521,273	0.00	0	0.00	0	0	393	36,102	2,119.00	-	-	-	-	1,597
Std-Eff Htg Sys Repl	0	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 Rep	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	Total	Electric	Gas	Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms		
Water Heating	354	27	327	555	40	515	50,989	0.0	0.3	14,401	30.5	7,359	144.04	0.000	0.011	533	0.093	23	
Temp. Reduct.	8	0	8	0	0	0	0	0.00	0.00	0	0	154	0.00	-	-	-	-	0.055	
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0	0	0.00	-	-	-	-	-	
Pipe Insul.	291	22	269	1,518	0	0	1,518	0.00	0.00	2,164	3.4	1,170	5.22	0.000	0.000	98	0.013	4	
LF Showerhead	141	8	133	142	8	134	1,257	0.00	0.21	9,316	9.8	3,027	8.92	0.000	0.026	1,164	0.074	23	
Faucet Aerator	195	16	179	334	30	304	975	0.00	0.05	2,348	1.8	568	5.00	0.000	0.003	147	0.010	3	
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0	0	0.00	-	-	-	-	-	
Hi-Eff Wtr Htr Repl.	79	2	77	79	2	77	47,239	0.00	0.01	574	15.0	2,440	597.96	0.000	0.007	287	0.194	32	
Lighting	452	452	0	3,060	3,060	0	21,339	16.4	30.2	155,863	-	-	47.21	0.036	0.067	345	-	-	
CapsyLite (42W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CapsyLite (52W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CapsyLite (72W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CapsyLite, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CFL (5W)	1	1	0	8	8	0	56	0.01	0.03	140	8	8	56.00	0.015	0.027	140	-	-	
CFL (7W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CFL (9W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CFL (11W)	15	15	0	65	65	0	490	0.16	0.29	1,512	-	-	32.67	0.011	0.020	101	-	-	
CFL (14W)	47	47	0	248	248	0	1,651	1.04	1.93	9,927	-	-	35.13	0.022	0.041	211	-	-	
CFL (15W)	97	97	0	523	523	0	3,355	2.16	3.99	20,555	-	-	34.59	0.022	0.041	212	-	-	
CFL (18W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CFL (20W)	209	209	0	1,066	1,066	0	8,005	5.71	10.56	54,421	-	-	38.39	0.027	0.051	260	-	-	
CFL (23W)	167	167	0	932	932	0	6,234	5.65	10.45	53,851	-	-	37.33	0.034	0.063	322	-	-	
CFL (25W)	36	36	0	218	218	0	1,548	1.62	3.00	15,457	-	-	43.00	0.045	0.083	429	-	-	
CFL (30W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
CFL, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	
Refrigerator/Freezer	161	161	0	190	190	0	102,071	16.79	15.70	136,484	-	-	633.98	0.104	0.097	848	-	-	
Refrigerator Remova	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
Refrigerator Exchange	138	138	0	138	138	0	82,781	13.11	12.25	106,551	-	-	599.86	0.095	0.089	772	-	-	
Freezer Remova	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	
Freezer Exchange	52	52	0	52	52	0	19,290	3.68	3.44	29,933	-	-	370.96	0.071	0.066	576	-	-	
Costs for Measures Without Energy Impacts Installed in 635 Total Households with Spending and/or Energy Impacts:																			
Total							262,345												
Unspecified Insul.	0						0						0.00						
Duct Insulation	0						0						0.00						
Duct Sealing	0						0						0.00						
Damming Materia	0						0						0.00						
Htg. Sys. Tune & Clean	1						50						50.00						
Htg. Sys./WH Other	11						7,348						667.95						
Space Heater Repl	0						0						0.00						
Air Conditioning Work	0						0						0.00						
Water Heater Repair	1						5						5.00						
Refrigerator Coil Clear	0						0						0.00						
Unspecified Utility Meas	0						0						0.00						
Asbestos Abatement	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						
Exhaust Ventilator	171						22,134						129.44						
Health/Safety Repair	0						0						0.00						
Health/Safety Other	0						0						0.00						
Consumables	0						0						0.00						
Preservation	0						0						0.00						
Roof Repairs	0						0						0.00						
General Repairs	235						49,490						210.55						
Evaluator Labor	0						0						0.00						
Inspector Labor	0						0						0.00						
Eval/Insp Labor	0						0						0.00						
Meter Refrig (no action)	0						0						0.00						
Meter Freezer (no action)	0						0						0.00						

**MidAmerican Energy
Calendar Year 2006
Fuel and Demand Impacts For All Customer Households From All Funding Sources**

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use			Spending on Materials & Labor (\$)	Estimated First-Year Savings						Average Estimated First Year Measure Cost and Savings Average per Treated Household								
	Total	Electric	Gas	Cooling	Heating	Other		Electricity		Annual kWh	Gas Annual therms	Spending on Materials & Labor (\$)	Electricity		Annual kWh	Gas Annual therms						
								Summer kWh	Winter kWh				Summer kWh	Winter kWh								
OVERALL	1,014	776	841				0	165.2	182.1	906,303	2,424	232,818	0.00	0.215	0.235	1,168	2,882	277				
Shell & Htg. Sys.	1,008	771	837	662	770		0	94.7	114,156	92.6	144,326	258,482	2,340	215,910	0.00	0.143	0.120	187	335	2,796	258	
Wall Insul.	670	546	559	476	545		0	36.31	43,797	33.49	52,348	96,145	744	68,763	0.00	0.076	0.061	96	176	1,330	123	
Ceiling Insul	890	708	730	615	704		0	50.89	61,375	25.94	40,102	101,477	356	32,865	0.00	0.083	0.037	57	143	0,487	45	
Infl. Reductor	958	742	787	643	736		0	6.51	7,849	12.65	19,639	27,488	285	26,305	0.00	0.010	0.017	27	37	0,363	33	
Found./Crawl. Insul.	378	268	310	226	268		0	0.94	1,135	7.35	11,515	12,651	136	12,434	0.00	0.004	0.027	43	47	0,438	40	
Bandjoist Insul.	420	317	355	-	317		0	0.00	0	1.15	1,795	21	1,950	0.00	-	-	6	6	0,060	5		
Hi-Eff Htg Sys Repl	420	0	420	-	0		0	0.00	0	0.00	0	711	65,587	0.00	-	-	-	-	1,694	156		
Std-Eff Htg Sys Repl	71	0	71	-	0		0	0.00	0	0.00	0	87	8,007	0.00	-	-	-	-	1,228	113		
Electric Htg Sys Repl	1	1	0	-	1		0	0.00	0	2.65	4,183	4,183	0	0	0.00	-	-	2,647	4,183	4,183	-	
Heat Pump Rep	4	4	0	-	4		0	0.00	0	9.43	14,743	14,743	0	0	0.00	-	-	2,357	3,686	3,686	-	
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 kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms				
Water Heating	619	87	532	1,069	127	942	0	0.0	0.8	39,448	83.5	16,908	0.00	0.000	0.009	453	0.157	32				
Temp. Reduct.	9	0	9				0	0.00	0.00	0	0.5	173	0.00	-	-	-	-	-	0.055	19		
WH Wrap	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-		
Pipe Insul.	458	71	387				0	0.00	0.01	6,983	4.8	1,667	0.00	0.000	0.000			98	0.012	4		
LF Showerhead	206	28	178	207	28	179	0	0.00	0.50	22,155	13.4	4,121	0.00	0.000	0.018			791	0.075	23		
Faucet Aerator	304	46	258	520	82	438	0	0.00	0.12	5,472	2.6	793	0.00	0.000	0.003			119	0.010	3		
Std-Eff Wtr Htr Repl.	87	13	74	87	13	74	0	0.00	0.09	3,828	15.1	2,468	0.00	0.000	0.007			294	0.304	33		
Hi-Eff Wtr Htr Repl.	196	3	193	255	4	251	0	0.00	0.02	1,010	47.1	7,696	0.00	0.000	0.008			337	0.244	40		
Lighting	687	687	0	4,692	4,692	0	0	24.9	46.1	237,514	-	-	0.00	0.036	0.067	346	-	-	-	-	-	
CapsyLite (42W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	
CapsyLite (52W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	
CapsyLite (72W)	2	2	0	0	0	0	0	0.01	0.01	68	-	-	0.00	0.004	0.007	34	-	-	-	-	-	
CapsyLite, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	
CFL (5W)	1	1	0	8	8	0	0	0.01	0.03	140	-	-	0.00	0.015	0.027	140	-	-	-	-	-	
CFL (7W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	
CFL (9W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	
CFL (11W)	28	28	0	126	126	0	0	0.31	0.58	2,990	-	-	0.00	0.011	0.021	107	-	-	-	-	-	
CFL (14W)	61	61	0	316	316	0	0	1.32	2.44	12,566	-	-	0.00	0.022	0.040	206	-	-	-	-	-	
CFL (15W)	162	162	0	889	889	0	0	3.69	6.82	35,180	-	-	0.00	0.023	0.042	217	-	-	-	-	-	
CFL (18W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	
CFL (20W)	294	294	0	1,526	1,526	0	0	8.00	14.79	76,233	-	-	0.00	0.027	0.050	259	-	-	-	-	-	
CFL (23W)	268	268	0	1,476	1,476	0	0	9.00	16.62	85,683	-	-	0.00	0.034	0.062	320	-	-	-	-	-	
CFL (25W)	59	59	0	348	348	0	0	2.58	4.76	24,534	-	-	0.00	0.044	0.081	416	-	-	-	-	-	
CFL (30W)	1	1	0	1	1	0	0	0.01	0.02	120	-	-	0.00	0.013	0.023	120	-	-	-	-	-	
CFL, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
Refrigerator/Freezer	372	372	0	537	537	0	0	45.62	42.65	370,859	-	-	0.00	0.123	0.115	997	-	-	-	-	-	
Refrigerator Remova	11	11	0	11	11	0	0	1.38	1.29	11,229	-	-	0.00	0.126	0.117	1,021	-	-	-	-	-	
Refrigerator Exchange	322	322	0	382	382	0	0	34.42	32.19	279,875	-	-	0.00	0.107	0.100	869	-	-	-	-	-	
Freezer Remova	6	6	0	6	6	0	0	0.53	0.49	4,275	-	-	0.00	0.088	0.082	713	-	-	-	-	-	
Freezer Exchange	114	114	0	138	138	0	0	9.28	8.68	75,479	-	-	0.00	0.081	0.076	662	-	-	-	-	-	
Costs for Measures Without Energy Impacts Installed in 1014 Total Households with Spending and/or Energy Impacts:																						
Total	0						0							0.00								
Unspecified Insul.	0						0							0.00								
Duct Insulation	0						0							0.00								
Duct Sealing	0						0							0.00								
Damming Materia	0						0							0.00								
Htg. Sys. Tune & Clean	0						0							0.00								
Htg. Sys./WH Other	0						0							0.00								
Space Heater Repl	0						0							0.00								
Air Conditioning Work	0						0							0.00								
Water Heater Repair	0						0							0.00								
Refrigerator Coil Clear	0						0							0.00								
Unspecified Utility Meas	0						0							0.00								
Asbestos Abatement	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								
Exhaust Ventilator	0						0							0.00								
Health/Safety Repair	0						0							0.00								
Health/Safety Other	0						0							0.00								

5. DETAILED SPENDING AND IMPACT PROFILES BY AGENCY

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

Energy impacts were estimated according to the statewide algorithms, which include agency-specific adjustments beginning this year.

**New Opportunities
Calendar Year 2006
Costs, Fuel, and Demand Impacts for All Measures**

Measure	Number of Households with Impacts						Count of Households with Electricity Impacts by End-Use		Estimated First-Year Savings											Average Estimated First Year Measure Cost and Savings											
	Total	Electric	Gas	Propane	Fuel Oil	Other	Cooling	Heating	Spending on Materials & Labor (\$)	Electricity				Annua kWh	Gas		Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor (\$)	Average per Treated Household				Propane gallons	Fuel Oil gallons	Other Mbtu				
										Summer kWh	Winter kWh	Annua kWh	Pk-Day thrms		Annua thrms	Summer kWh					Winter kWh	Annua kWh	Pk-Day thrms	Annua thrms							
OVERALL	59	59	53	4	3	0	52	59	333,251	19.2	33.0	113,372	144	13,755	1,273	665	0	5648.33	0.326	0.559	1,922	2,723	260	318	222	-					
Shell & Htg. Sys.	59	59	48	4	3	0	52	59	298,262	12.0	24.5	38,623	51,135	143	13,386	1,269	665	0	5055.29	0.230	0.415	655	867	2,978	279	317	222	-			
Wall Insul.	50	50	40	4	3	0	44	50	92,170	4.13	4,284	10.73	16,855	21,139	53	4,356	514	261	0	1843.40	0.094	97	0.215	337	423	1,324	124	128	87	-	
Ceiling Insul.	58	58	47	4	3	0	51	58	97,178	6.36	6,707	6.38	10,071	16,778	31	2,917	262	96	0	1675.49	0.125	132	0.110	174	289	0.662	62	65	32	-	
Infl. Reduction	53	53	43	4	3	0	47	53	10,216	1.06	1,083	2.10	3,308	4,390	11	1,018	89	61	0	192.76	0.022	23	0.040	62	83	0.253	24	22	20	-	
Found./Crawl. Insul.	27	27	23	1	2	0	26	27	17,234	0.41	439	2.52	4,000	4,440	10	928	35	49	0	638.31	0.016	17	0.093	148	164	0.429	40	35	25	-	
Bandjoist Insul.	11	11	6	1	3	0	-	11	1,080	0.00	0	0.13	206	206	0	27	5	10	0	98.15	-	-	0.012	19	19	0.048	5	5	3	-	
Hi-Eff Htg Sys Repl	20	0	16	2	2	0	-	0	51,908	0.00	0	0.00	0	0	24	2,224	250	188	0	2595.40	-	-	-	-	-	1,494	139	125	94	-	
Std-Eff Htg Sys Repl	8	0	7	1	0	0	-	0	26,022	0.00	0	0.00	0	0	14	1,315	115	0	0	3252.75	-	-	-	-	-	1,995	188	115	-	-	
Electric Htg Sys Repl	1	1	0	0	0	0	-	1	2,453	0.00	2.65	4,183	4,183	0	0	0	0	0	2453.00	-	2.647	4,183	4,183	-	-	-	-	-	-	-	
Heat Pump Rep	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	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	0	-	-	-	-	-	-	-	-	-	-	
	Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other	Summer kWh	Winter kWh	Annua kWh	Pk-Day thrms	Annua thrms	Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor (\$)	Summer kWh	Winter kWh	Annua kWh	Pk-Day thrms	Annua thrms	Propane gallons	Fuel Oil gallons	Other Mbtu		
Water Heating	55	7	47	1	0	0	7	0	5,017	0.0	0.0	0.0	688	1.4	370	4	0	0	0	91.21	0.000	0.000	98	0.029	8	4	-	-	-	-	
Temp. Reduct.	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Pipe Insul.	55	7	47	1	0	0	7	0	315	0.00	0.00	0.00	688	0.5	171	4	0	0	0	5.73	0.000	0.000	98	0.010	4	4	-	-	-	-	
LF Showerhead	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-	-
Faucet Aerator	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-	-
Std-Eff Wtr Htr Repl.	7	0	7	0	0	0	7	0	4,702	0.00	0.00	0.00	0	0	0.9	199	0	0	0	671.44	-	-	-	0.125	28	-	-	-	-	-	-
Hi-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-	-
Lighting	59	59	0	0	0	0	283	283	1,981	1.9	3.4	17,638	-	-	-	-	-	-	-	33.58	0.031	0.058	299	-	-	-	-	-	-	-	
Capsy lite (42W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-
Capsy lite (52W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-
Capsy lite (72W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-
Capsy lite, unknown	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-
CFL (5W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-
CFL (7W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-
CFL (9W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-
CFL (11W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-
CFL (14W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-
CFL (15W)	11	11	0	0	0	0	52	52	364	0.24	0.44	2,250	-	-	-	-	-	-	-	33.09	0.021	0.040	205	-	-	-	-	-	-	-	-
CFL (18W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-
CFL (20W)	7	7	0	0	0	0	40	40	280	0.21	0.38	1,979	-	-	-	-	-	-	-	40.00	0.030	0.055	283	-	-	-	-	-	-	-	-
CFL (23W)	10	10	0	0	0	0	40	40	280	0.28	0.52	2,679	-	-	-	-	-	-	-	28.00	0.028	0.052	268	-	-	-	-	-	-	-	-
CFL (25W)	31	31	0	0	0	0	151	151	1,057	1.13	2.08	10,730	-	-	-	-	-	-	-	34.10	0.036	0.067	346	-	-	-	-	-	-	-	-
CFL (30W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-
CFL, unknown	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	-	-	-
King	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	-	-	-
Double	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	-	-	-
Single	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	-	-	-
Refrigerator/Freezer	36	36	0	0	0	0	57	57	27																						

**Community Action of Eastern Iowa
Calendar Year 2006
Costs, Fuel, and Demand Impacts for All Measures**

Measure	Number of Households with Impacts						Count of Households with Electricity Impacts by End-Use		Spending on Materials & Labor (\$)	Estimated First-Year Savings						Average Estimated First Year Measure Cost and Savings Average per Treated Household																	
	Total	Electric	Gas	Propane	Fuel Oil	Other	Cooling	Heating		Electricity		Annual kWh	Gas		Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor (\$)	Electricity		Annual kWh	Gas		Propane gallons	Fuel Oil gallons	Other Mbtu							
										Summer kW	Winter kWh		Pk-Day therms	Annual therms					Summer kW	Winter kWh		Pk-Day therms	Annual therms										
OVERALL	171	171	158	10	1	0	153	170	665,452	55.0	33.8	199,808	465	44,843	2,036	316	0	3891.53	0.323	0.198	1,168	2,944	284	204	316	-							
Shell & Htg. Sys.	170	170	158	10	1	0	153	170	568,963	40.5	44.123	13.8	20,939	65,062	445	40,353	1,805	316	0	3346.84	0.265	288	0.081	123	383	2,814	255	181	316	-			
Wall Insul.	106	106	103	1	1	0	94	106	158,175	13.10	14,408	5.89	8,940	23,348	143	12,985	83	108	0	1482.22	0.139	153	0.056	84	220	1,388	126	83	108	-			
Ceiling Insul.	145	145	140	3	1	0	131	145	87,327	26.03	28,206	3.02	4,577	32,783	66	5,941	186	42	0	602.26	0.199	215	0.021	32	226	0,469	42	62	42	-			
Infltr. Reduction	170	170	158	10	1	0	153	170	74,545	1.10	1,184	3.45	5,232	6,416	75	6,808	300	28	0	438.50	0.007	8	0.020	31	38	0,475	43	30	28	-			
Found./Crawl. Insul.	80	80	71	8	1	0	71	80	41,695	0.32	324	1.10	1,668	1,992	29	2,671	494	18	0	521.19	0.004	5	0.014	21	25	0,415	38	62	18	-			
Bandjoist Insul.	106	106	102	2	1	0	-	106	18,281	0.00	0	0.34	522	7	647	15	5	0	172.46	-	-	0.003	5	5	0,070	6	7	5	-				
Hi-Eff Htg Sys Repl	68	0	64	4	0	0	-	0	169,367	0.00	0	0.00	0	113	10,274	728	0	0	2490.70	-	-	-	-	-	1,768	161	182	-	-				
Std-Eff Htg Sys Repl	8	0	7	0	1	0	-	0	19,572	0.00	0	0.00	0	11	1,028	0	116	0	2446.53	-	-	-	-	-	1,614	147	-	-	116	-			
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	-	-	-	-	-	-	-	-	-	-			
Heat Pump Rep	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	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	0	-	-	-	-	-	-	-	-	-	-			
	Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other	Summer kW	Winter kWh	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Summer kW	Winter kWh	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu					
Water Heating	139	14	121	4	0	0	309	27	274	8	0	0	35,808	0.0	0.1	7,669	20.5	4,490	231	0	0	0	0	0	257.61	0.000	0.010	548	0.170	37	58	-	-
Temp. Reduct.	1	0	1	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	0	0	0	0	0	0	0	0	0	
Pipe Insul.	81	5	76	0	0	0	68	7	59	2	0	0	453	0.00	0.00	492	1.2	414	0	0	0	0	0	0	5.59	0.000	0.000	98	0.016	5	-	-	
LF Showerheac	68	7	59	2	0	0	68	7	59	2	0	0	680	0.00	0.10	4,425	5.2	1,591	41	0	0	0	0	10.00	0.000	0.014	632	0.088	27	21	-	-	
Faucet Aeratoi	99	9	89	1	0	0	169	14	153	2	0	0	507	0.00	0.02	901	1.1	333	3	0	0	0	0	5.12	0.000	0.002	100	0.012	4	3	-	-	
Std-Eff Wtr Htr Repl.	25	4	17	4	0	0	25	4	17	4	0	0	13,942	0.00	0.01	1,178	4.4	725	186	0	0	0	0	557.66	0.000	0.002	294	0.251	43	47	-	-	
Hi-Eff Wtr Htr Repl.	30	2	28	0	0	0	47	2	45	0	0	0	20,226	0.00	0.02	673	8.6	1,398	0	0	0	0	0	674.21	0.000	0.008	337	0.306	50	-	-		
Lighting	148	148	1,165	0	0	0	1,165	0	0	0	0	0	8,155	6.9	12.8	66,071	-	-	-	-	55.10	0.047	0.087	446	-	-	-	-	-	-	-	-	
Capsylite (42W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	
Capsylite (52W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	
Capsylite (72W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	
Capsylite, unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	
CFL (5W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	
CFL (7W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	
CFL (9W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	
CFL (11W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	
CFL (14W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	
CFL (15W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	
CFL (18W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	
CFL (20W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	
CFL (23W)	147	147	1,153	0	0	0	1,153	0	0	0	0	0	8,071	6.87	12.69	65,396	-	-	-	-	54.90	0.047	0.086	445	-	-	-	-	-	-	-	-	
CFL (25W)	1	1	12	12	0	0	12	12	84	0.07	0.13	675	84	0.07	0.13	675	-	-	-	-	84.00	0.071	0.131	675	-	-	-	-	-	-	-	-	
CFL (30W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	
CFL, unknown	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	
Waterbed Mattress Pad	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	-	-	-	
King	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	-	-	-	
Queen	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	-	-	-	
Double	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	-	-	-	
Single	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	-	-	-	
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	-	-	-	
Refrigerator/Freezer	<																																

**North Iowa Community Action Organization
Calendar Year 2006
Costs, Fuel, and Demand Impacts for All Measures**

Measure	Number of Households with Impacts						Count of Households with Electricity Impacts by End-Use		Spending on Materials & Labor (\$)	Estimated First-Year Savings						Average Estimated First Year Measure Cost and Savings Average per Treated Household															
	Total	Electric	Gas	Propane	Fuel Oil	Other	Cooling	Heating		Summer kW	Electricity		Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor (\$)	Summer kW	Electricity		Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu			
											Winter kWh	Winter kWh									Summer kWh	Winter kWh							Summer kWh	Winter kWh	Annual kWh
OVERALL	148	148	126	21	2	0			466,297	28.4	31.7			194,451	336	34,409	6,296	561	0	3,150.66	0.192	0.214		1,314	2,668	273	300	280	-		
Shell & Htg. Sys.	148	148	123	21	2	0	139	148	371,244	9.2	10.189	8.7	14,458	24,648	330	32,827	6,242	561	0	2,508.40	0.066	0.059	98	167	2,682	267	297	280	-		
Wall Insul.	105	105	87	16	2	0	96	105	91,402	6.54	7,249	2.99	4,981	12,230	92	9,157	2,134	194	0	870.49	0.068	0.028	47	116	1,057	105	133	97	-		
Ceiling Insul.	144	144	119	21	2	0	135	144	86,357	2.58	2,899	2.89	4,774	7,673	60	5,921	928	77	0	599.70	0.019	0.020	33	53	0.500	50	44	39	-		
Infl. Reduction	143	143	119	21	2	0	134	143	34,786	-0.09	(102)	2.41	4,014	3,912	70	6,919	1,568	109	0	243.26	-0.001	(1)	0.017	28	27	0.586	58	75	54	-	
Found./Crawl. Insul.	40	40	33	7	0	0	37	40	7,873	0.12	144	0.24	393	537	7	723	139	0	0	196.82	0.003	4	0.006	10	13	0.221	22	20	-	-	
Bandjoist Insul.	40	40	30	7	1	0	-	40	2,968	0.00	0	0.18	296	296	2	194	49	4	0	74.21	-	-	0.005	7	7	0.065	6	7	4	-	
Hi-Eff Htg Sys Repl	12	0	64	7	1	0	-	0	130,232	0.00	0	0.00	0	0	91	9,080	1,067	104	0	1808.77	-	-	-	-	-	1,422	142	152	104	-	
Std-Eff Htg Sys Repl	72	0	8	3	1	0	-	0	17,627	0.00	0	0.00	0	0	8	833	366	72	0	1468.90	-	-	-	-	-	1,051	104	119	72	-	
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 Rep	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	-	-	-	-	-	-	-	-	-	-	
	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	Spending on Materials & Labor (\$)	Summer kW	Winter kW	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		
Water Heating	127	26	99	2	0	0	140	25	111	4	0	0	12,198	0.0	0.1	6,151	6.3	1,582	55	0	0	96.05	0.000	0.004	237	0.063	16	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	0.00	-	-	-	-	-	-	-	-	-	
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	
Pipe Insul.	112	23	87	2	0	0	0	0	0	0	0	0	197	0.00	0.00	2,262	1.1	376	9	0	0	1.76	0.000	0.000	98	0.012	4	5	-	-	
LF Showerhead	23	3	20	0	0	0	23	3	20	0	0	0	114	0.00	0.03	1,309	1.8	547	0	0	0	4.95	0.000	0.010	436	0.089	27	-	-	-	
Faucet Aeratoi	73	15	56	2	0	0	94	18	73	3	0	0	83	0.00	0.03	1,402	0.7	222	8	0	0	0.45	0.000	0.002	93	0.013	4	4	-	-	
Std-Eff Wtr Htr Repl.	5	4	0	1	0	0	5	4	0	1	0	0	3,659	0.00	0.03	1,178	0.0	0	37	0	0	73.79	0.000	0.007	294	-	-	37	-	-	
Hi-Eff Wtr Htr Repl.	11	0	11	0	0	0	18	0	18	0	0	0	8,196	0.00	0.00	0	2.7	436	0	0	0	745.07	-	-	-	0.243	40	-	-	-	
Lighting	144	144					1,453	1,453					8,289	5.4	10.0	51,740	-	-	-	-	57.56	0.038	0.070	359	-	-	-	-	-	-	
CapsyLite (42W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	
CapsyLite (52W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	
CapsyLite (72W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	
CapsyLite, unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (5W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (7W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (9W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (11W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (14W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (15W)	144	144					1,453	1,453					8,289	5.43	10.04	51,740	-	-	-	-	57.56	0.038	0.070	359	-	-	-	-	-	-	
CFL (18W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (20W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (23W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (25W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (30W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL, unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	
Waterbed Mattress Pad	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	0.0	0.00	-	-	-	-	-	-	-	-	-
King	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	0.0	0.00	-	-	-	-	-	-	-	-	-
Queen	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	0.0	0.00	-	-	-	-	-	-	-	-	-
Double	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	0.0	0.00	-	-	-	-	-	-	-	-	-
Single	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	0.0	0.00	-	-	-	-	-	-	-	-	-
Unknown	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	0.0	0.00	-	-	-	-	-	-	-	-	-
Refrigerator/Freezer	94	94					202	202					74,566	13.77	12.87	111,912	-	-	-	-	793.26	0.146	0.137	1,191	-	-	-	-	-	-	
Refrigerator Remova	8	8					8	8					238	1.00	0.94	8,167	-	-													

**Northeast Iowa Community Action Corporation
Calendar Year 2006
Costs, Fuel, and Demand Impacts for All Measures**

Measure	Number of Households with Impacts						Count of Households with Electricity Impacts by End-Use		Spending on Materials & Labor (\$)	Estimated First-Year Savings						Average Estimated First Year Measure Cost and Savings Average per Treated Household														
	Total	Electric	Gas	Propane	Fuel Oil	Other	Cooling	Heating		Electricity		Annual kWh	Gas		Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor (\$)	Electricity		Annual kWh	Gas		Propane gallons	Fuel Oil gallons	Other Mbtu				
										Summer kWh	Winter kWh		Pk-Day therms	Annual therms					Summer kWh	Winter kWh		Pk-Day therms	Annual therms							
OVERALL	99	99	76	17	2	0	83	99	402,623	15.3	28.3	132,032	193	19,505	4,261	305	0	4066.90	0.157	0.286	1,334	2,538	257	251	153	-				
Shell & Htg. Sys.	99	99	75	16	2	0	83	99	316,268	4.7	4,940	16.1	26,328	31,268	186	18,184	4,165	305	0	3194.62	0.056	60	0.163	266	316	2,474	242	260	153	-
Wall Insul.	44	44	39	5	0	0	35	44	45,488	2.50	2,667	1.80	2,952	5,619	48	4,747	552	0	0	1033.81	0.071	76	0.041	67	128	1,242	122	110	-	-
Ceiling Insul.	62	62	48	10	1	0	51	62	40,498	1.35	1,401	9.37	15,277	16,678	23	2,282	482	31	0	653.20	0.026	27	0.151	246	269	0,486	48	48	31	-
Infl. Reduction	95	95	72	14	2	0	79	94	44,759	0.81	873	3.25	5,341	6,214	24	2,370	730	8	0	471.15	0.010	11	0.035	57	65	0,336	33	52	4	-
Found./Crawl. Insul.	34	34	24	9	0	0	27	34	35,860	0.00	(1)	1.08	1,781	1,779	15	1,480	530	0	0	1054.72	0.000	(0)	0.032	52	52	0,624	62	59	-	-
Bandjoist Insul.	32	32	24	5	0	0	-	32	3,730	0.00	0	0.59	977	977	2	176	41	0	0	116.56	-	-	0.019	31	31	0,075	7	8	-	-
Ht-Err Htg Sys Repl	37	0	29	6	2	0	-	0	90,802	0.00	0	0.00	0	0	51	4,998	1,085	266	0	2454.11	-	-	-	-	-	1,760	172	181	133	-
Std-Err Htg Sys Repl	22	0	17	5	0	0	-	0	55,130	0.00	0	0.00	0	0	22	2,131	745	0	0	2505.91	-	-	-	-	-	1,282	125	149	-	-
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	-	-	-	-	-	-	-	-	-	-
Heat Pump Rep	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	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	0	-	-	-	-	-	-	-	-	-	-

Measure	Number of Households with Impacts						Number of Measures by Fuel Type						Spending on Materials & Labor (\$)	Estimated First-Year Savings						Average Estimated First Year Measure Cost and Savings Average per Treated Household													
	Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor (\$)	Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu			
																															Summer kWh	Winter kWh	Annual kWh
Water Heating	90	41	47	2	0	0	70	26	42	2	0	0	41,912	0.0	0.2	11,338	7.4	1,321	97	0	0	0	0	0	0.00	0.000	0.005	277	0.157	28	48	-	-
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	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	0	0.00	-	-	-	-	-	-	-	-
Pipe Insul.	81	34	45	2	0	0	0	0	0	0	0	0	131	0.00	0.01	3,344	0.6	225	11	0	0	0	0	0	1.62	0.000	0.000	98	0.014	5	5	-	-
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	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	0	0.00	-	-	-	-	-	-	-	-
Std-Err Wtr Htr Repl.	13	10	1	2	0	0	13	10	1	2	0	0	10,744	0.00	0.07	2,945	0.2	39	86	0	0	0	0	0	825.43	0.000	0.007	294	0.241	39	43	-	-
Ht-Err Wtr Htr Repl.	38	15	23	0	0	0	57	16	41	0	0	0	31,038	0.00	0.12	5,050	6.5	1,056	0	0	0	0	0	0	816.78	0.000	0.008	337	0.281	46	-	-	-
Lighting	89	89	0	0	0	0	420	420	0	0	0	0	1,719	2.3	4.2	21,787	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CapsyLite (42W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-
CapsyLite (52W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-
CapsyLite (72W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-
CapsyLite, unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-
CFL (5W)	1	1	0	0	0	0	1	1	0	0	0	0	4	0.00	0.00	17	-	-	-	-	-	-	-	-	-	4.00	0.002	0.003	17	-	-	-	-
CFL (7W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-
CFL (9W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-
CFL (11W)	4	4	0	0	0	0	12	12	0	0	0	0	48	0.03	0.06	304	-	-	-	-	-	-	-	-	-	12.00	0.008	0.015	76	-	-	-	-
CFL (14W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-
CFL (15W)	37	37	0	0	0	0	158	158	0	0	0	0	632	0.66	1.23	6,320	-	-	-	-	-	-	-	-	-	17.08	0.018	0.033	171	-	-	-	-
CFL (18W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	
CFL (20W)	37	37	0	0	0	0	116	116	0	0	0	0	464	0.62	1.15	5,920	-	-	-	-	-	-	-	-	-	12.54	0.017	0.031	160	-	-	-	-
CFL (23W)	28	28	0	0	0	0	85	85	0	0	0	0	340	0.59	1.08	5,582	-	-	-	-	-	-	-	-	-	12.14	0.021	0.039	199	-	-	-	-
CFL (25W)	21	21	0	0	0	0	41	41	0	0	0	0	168	0.30	0.56	2,867	-	-	-	-	-	-	-	-	-	8.00	0.014	0.026	137	-	-	-	-
CFL (30W)	6	6	0	0	0	0	7	7	0	0	0	0	63	0.08	0.15	778	-	-	-	-	-	-	-	-	-	10.48	0.014	0.025	130	-	-	-	-
CFL, unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	
Waterbed Mattress Pad	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	0	0	0.00	-	-	-	-	-	-	-	-
King	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	0	0	0.00	-	-	-	-	-	-	-
Queen	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	0	0	0.00	-	-	-	-	-	-	-
Double	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	0	0	0.00	-	-	-	-	-	-	-
Single	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	0	0	0.00	-	-	-	-			

**Operation: New View Community Action Agency
Calendar Year 2006
Costs, Fuel, and Demand Impacts for All Measures**

Measure	Number of Households with Impacts						Count of Households with Electricity Impacts by End-Use		Spending on Materials & Labor (\$)	Estimated First-Year Savings							Average Estimated First Year Measure Cost and Savings Average per Treated Household														
	Total	Electric	Gas	Propane	Fuel Oil	Other	Cooling	Heating		Electricity		Annual kWh	Gas		Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor (\$)	Electricity		Annual kWh	Gas		Propane gallons	Fuel Oil gallons	Other Mbtu					
										Summer kW	Winter kWh		Pk-Day therms	Annual therms					Summer kW	Winter kWh		Pk-Day therms	Annual therms								
OVERALL	91	90	76	9	2	0	80	90	377,710	21.0	26.9	137,077	140	13,529	1,541	418	0	4150.66	0.233	0.299	1,523	1.845	178	171	209	-					
Shell & Htg. Sys.	91	90	75	9	2	0	80	90	306,375	9.8	10.689	11.9	19,057	29,746	138	13,041	1,541	418	0	3366.75	0.122	0.133	212	331	1,836	174	171	209	-		
Wall Insul.	66	66	56	5	2	0	58	66	71,016	4.74	5,183	6.22	9,982	15,165	47	4,440	363	156	0	1076.01	0.082	0.094	151	230	0.837	79	73	78	-		
Ceiling Insul.	75	75	67	4	2	0	65	75	87,623	4.32	4,772	3.32	5,277	10,049	24	2,274	234	76	0	1169.30	0.066	0.044	70	134	0.358	34	58	38	-		
Inflr. Reduction	87	87	71	9	2	0	77	87	13,630	0.54	0.56	1.93	3,087	3,642	18	1,689	212	24	0	156.67	0.007	0.022	35	42	0.251	24	24	12	-		
Found./Crawl. Insul.	18	18	13	5	0	0	18	18	15,309	0.17	0.179	0.32	511	690	4	350	282	0	0	850.47	0.010	0.018	28	38	0.285	27	56	-	-		
Bandjoist Insul.	24	24	21	1	1	0	-	24	1,944	0.00	0	0.13	200	200	1	81	4	3	0	81.00	-	-	0.005	8	8	0.041	4	4	3	-	
Hi-Eff Htg Sys Repl	32	0	31	1	0	0	-	0	74,880	0.00	0	0.00	0	0	37	3,508	109	0	0	2339.99	-	-	-	-	-	1.196	113	109	-	-	
Std-Eff Htg Sys Repl	16	0	10	4	2	0	-	0	41,973	0.00	0	0.00	0	0	7	700	336	160	0	2623.32	-	-	-	-	-	0.739	70	84	80	-	
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 Rep	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	-	-	-	-	-	-	-	-	-	-	
	Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other	Summer kW	Winter kWh	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor (\$)	Summer kW	Winter kWh	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		
Water Heating	46	21	25	0	0	0	88	38	50	0	0	0	20,466	0.0	0.2	9,835	2.5	488	0	0	0	444.90	0.000	0.010	468	0.101	20	-	-	-	
Temp. Reduct.	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
WH Wrap	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Pipe Insul.	1	0	1	0	0	0	0	0	0	0	0	0	12	0.00	0.00	0	0	3	0	0	12.00	-	-	-	-	-	0.010	3	-	-	-
LF Showerheac	6	4	2	0	0	0	7	4	3	0	0	0	70	0.00	0.09	4,144	0.1	18	0	0	11.67	0.000	0.024	1,036	0.029	9	-	-	-	-	-
Faucet Aeratort	26	11	15	0	0	0	52	20	32	0	0	0	156	0.00	0.03	1,485	0.1	33	0	0	6.00	0.000	0.003	135	0.007	2	-	-	-	-	-
Std-Eff WH Htr Repl.	17	12	5	0	0	0	17	12	5	0	0	0	13,285	0.00	0.07	3,534	0.5	130	0	0	78.53	0.000	0.005	294	0.096	26	-	-	-	-	-
Hi-Eff WH Htr Repl.	12	2	10	0	0	0	12	2	10	0	0	0	6,942	0.00	0.02	673	1.9	304	0	0	578.47	0.000	0.008	337	0.186	30	-	-	-	-	-
Lighting	85	85	85	4	0	0	920	920	0	0	0	0	6,440	4.7	8.8	45,111	-	-	-	-	75.76	0.056	0.103	531	-	-	-	-	-	-	
Capsy lite (42W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-
Capsy lite (52W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-
Capsy lite (72W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-
Capsy lite, unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-
CFL (5W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-
CFL (7W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-
CFL (9W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-
CFL (11W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-
CFL (14W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-
CFL (15W)	9	9	0	0	0	0	108	108	0	0	0	0	756	0.38	0.71	3,644	-	-	-	-	84.00	0.043	0.079	405	-	-	-	-	-	-	-
CFL (18W)	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-
CFL (20W)	13	13	0	0	0	0	131	131	0	0	0	0	11	0.60	1.10	5,691	-	-	-	-	73.54	0.046	0.085	438	-	-	-	-	-	-	-
CFL (23W)	62	62	0	0	0	0	610	610	0	0	0	0	4,270	3.32	6.13	31,590	-	-	-	-	68.87	0.053	0.099	510	-	-	-	-	-	-	-
CFL (25W)	13	13	0	0	0	0	71	71	0	0	0	0	497	0.44	0.81	4,186	-	-	-	-	38.23	0.034	0.062	322	-	-	-	-	-	-	-
CFL (30W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-
CFL, unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-
Waterbed Mattress Pad	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	0.00	-	-	-	-	-	-	-	-	-	
King	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Double	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Single	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-
Refrigerator/Freezer	56	56	0	0	0	0	102	102	0	0	0	0	44,430	6.44	6.02	52,384	-	-	-	-	793.40	0.115	0.108	935	-	-	-	-	-	-	
Refrigerator Remova	1	1	0																												

**Operation Threshold
Calendar Year 2006
Costs, Fuel, and Demand Impacts for All Measures**

Measure	Number of Households with Impacts						Count of Households with Electricity Impacts by End-Use		Spending on Materials & Labor (\$)	Estimated First-Year Savings						Average Estimated First Year Measure Cost and Savings Average per Treated Household														
	Total	Electric	Gas	Propane	Fuel Oil	Other	Cooling	Heating		Electricity		Annual kWh	Gas		Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor (\$)	Electricity		Annual kWh	Gas		Propane gallons	Fuel Oil gallons	Other Mbtu				
										Summer kW	Winter kWh		Pk-Day therms	Annual therms					Summer kW	Winter kWh		Pk-Day therms	Annual therms							
OVERALL	143	143	131	7	2	0	131	143	618,009	28.7	36.3	178,931	307	31,448	2,108	348	0	4321.74	0.201	0.254	1,251	2,342	240	301	174	-				
Shell & Htg. Sys.	143	143	130	7	2	0	131	143	533,482	15.5	16.435	19.1	31,118	47,553	295	28,622	2,069	348	0	3730.64	0.118	0.133	218	333	2,265	220	296	174	-	
Wall Insul.	136	136	123	7	2	0	124	136	199,783	11.75	12.454	10.77	17,572	30,026	127	12,327	846	123	0	1468.99	0.095	0.079	129	221	1,031	100	121	61	-	
Ceiling Insul.	140	140	127	7	2	0	138	140	136,740	2.74	2.955	9.29	8,632	11,587	56	5,485	402	62	0	976.72	0.021	0.038	62	83	0.443	43	57	31	-	
Infl. Reduction	141	141	128	7	2	0	129	141	61,580	1.01	1.067	1.88	3,067	4,134	30	2,867	91	17	0	436.74	0.008	0.013	22	29	0.231	22	13	8	-	
Found./Crawl. Insul.	35	35	32	1	1	0	32	35	12,206	-0.03	(41)	0.81	1,321	1,280	10	1,013	37	48	0	348.74	-0.001	(1)	0.023	38	37	0.326	32	37	48	-
Bandjoist Insul.	77	77	70	4	1	0	-	77	6,697	0.00	0	0.32	525	525	4	365	22	3	0	86.97	-	-	0.004	7	7	0.054	5	5	3	-
Ht-Eff Htg Sys Repl	60	0	55	4	1	0	-	0	107,845	0.00	0	0.00	0	0	86	6,452	670	95	0	1757.42	-	-	-	-	-	1,208	117	168	95	-
Std-Eff Htg Sys Repl	3	0	3	0	0	0	-	0	8,630	0.00	0	0.00	0	0	1	133	0	0	0	2876.67	-	-	-	-	-	0.455	44	-	-	-
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	-	-	-	-	-	-	-	-	-	-
Heat Pump Rep	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	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	0	-	-	-	-	-	-	-	-	-	-

Measure	Number of Households with Impacts						Number of Measures by Fuel Type						Spending on Materials & Labor (\$)	Estimated First-Year Savings						Average Estimated First Year Measure Cost and Savings Average per Treated Household												
	Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kW	Winter kWh	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor (\$)	Summer kW	Winter kWh	Annual kWh	Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu		
																															Summer kW	Winter kWh
Water Heating	140	31	108	1	0	0	295	43	249	3	0	0	33,011	0.0	0.3	16,534	12.3	2,826	39	0	0	235.79	0.000	0.010	533	0.114	26	39	-	-	-	
Temp. Reduct.	4	0	4	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.2	67	0	0	0	0.00	-	-	-	0.049	17	-	-	-	-	
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.	132	31	100	1	0	0	0	0	0	0	0	0	783	0.00	0.01	3,049	1.0	347	4	0	0	5.93	0.000	0.000	98	0.010	3	4	-	-	-	
LF Showerhead	70	17	52	1	0	0	70	17	52	1	0	0	700	0.00	0.24	10,502	3.1	943	31	0	0	10.00	0.000	0.014	618	0.059	18	31	-	-	-	
Faucet Aerator	90	13	76	1	0	0	159	21	136	2	0	0	477	0.00	0.03	1,468	0.7	202	5	0	0	5.30	0.000	0.003	113	0.009	3	5	-	-	-	
Std-Eff WH Htr Repl.	26	4	22	0	0	0	26	4	22	0	0	0	16,482	0.00	0.01	1,178	3.3	598	0	0	0	63.15	0.000	0.004	294	0.152	27	-	-	-	-	
Ht-Eff WH Htr Repl.	22	1	21	0	0	0	40	1	39	0	0	0	14,589	0.00	0.01	337	4.1	668	0	0	0	683.13	0.000	0.008	337	0.195	32	-	-	-	-	
Lighting	136	136	836	836	0	0	836	836	0	0	0	0	5,880	5.0	9.2	47,273	-	-	-	-	43.24	0.036	0.067	348	-	-	-	-	-	-	-	
CapsyLite (42W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CapsyLite (52W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CapsyLite (72W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CapsyLite, unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL (5W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL (7W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL (9W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL (11W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL (14W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL (15W)	40	40	0	0	0	0	204	204	0	0	0	0	1,414	0.86	1.59	8,220	-	-	-	-	35.35	0.022	0.040	205	-	-	-	-	-	-	-	
CFL (18W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL (20W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL (23W)	115	115	0	0	0	0	596	596	0	0	0	0	4,214	3.85	7.11	36,652	-	-	-	-	36.64	0.033	0.062	319	-	-	-	-	-	-	-	
CFL (25W)	6	6	0	0	0	0	36	36	0	0	0	0	252	0.25	0.47	2,401	-	-	-	-	42.00	0.042	0.078	400	-	-	-	-	-	-	-	
CFL (30W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL, unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
Waterbed Mattress Pad	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	0.00	-	-	-	-	-	-	-	-	-	-	
King	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	0.00	-	-	-	-	-	-	-	-	-	-	
Queen	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	0.00	-	-	-	-	-	-	-	-	-	-	
Double	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	0.00	-	-	-	-	-	-	-	-	-	-	
Single	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	0.00	-	-	-	-	-	-	-	-	-	-	
Unknown	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	0.00	-	-	-	-	-	-	-	-	-	-	
Refrigerator/Freezer	64	64	0	0	0	0																										

**Red Rock Area Community Action
Calendar Year 2006
Costs, Fuel, and Demand Impacts for All Measures**

Measure	Number of Households with Impacts						Count of Households with Electricity Impacts by End-Use		Estimated First-Year Savings										Average Estimated First Year Measure Cost and Savings Average per Treated Household									
	Total	Electric	Gas	Propane	Fuel Oil	Other	Cooling	Heating	Spending on Materials & Labor (\$)	Electricity				Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor (\$)	Electricity				Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
										Summer kW	Summer kWh	Winter kW	Winter kWh							Annual kWh	Summer kW	Winter kW	Annual kWh					
OVERALL	61	61	55	6	0	0	58	58	243,191	14.4	12.4	12.4	8,120	67,579	131	12,645	1,756	0	0	3986.73	0.249	0.204	1,108	2,390	230	293	-	-
Shell & Htg. Sys.	61	58	54	6	0	0	58	58	190,005	8.8	9,946	5.3	8,120	18,066	125	11,394	1,721	0	0	3114.84	0.151	0.092	140	311	2,308	211	287	-
Wall Insul.	29	29	26	3	0	0	29	29	34,192	3.93	4,472	2.66	4,060	8,532	29	2,636	408	0	0	1179.03	0.136	0.092	140	294	1,110	101	136	-
Ceiling Insul.	43	43	41	2	0	0	43	43	36,651	1.81	2,029	1.15	1,758	3,787	23	2,058	111	0	0	852.34	0.042	0.027	41	88	0.549	50	55	-
Infl. Reduction	53	53	47	5	0	0	53	53	14,723	2.38	2,719	0.83	1,274	3,993	9	856	1423	0	0	277.79	0.045	0.016	24	75	0.199	18	29	-
Found./Crawl. Insul.	13	13	11	2	0	0	13	13	7,986	0.54	635	0.42	637	1,272	5	497	63	0	0	614.31	0.042	0.032	49	98	0.488	45	32	-
Bandjoist Insul.	19	19	15	4	0	0	-	19	2,213	0.09	91	0.21	330	422	1	74	21	0	0	116.47	-	0.011	17	22	0.054	5	5	-
Hi-Eff Htg Sys Repl	37	0	32	5	0	0	-	0	92,605	0.00	0	0.00	60	60	57	5,198	974	0	0	2502.84	-	-	-	-	1,777	162	195	-
Std-Eff Htg Sys Repl	1	0	1	0	0	0	-	0	1,635	0.00	0	0.00	0	0	1	75	0	0	0	1635.00	-	-	-	-	0.822	75	-	-
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	
Heat Pump Rep	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 Households with Impacts						Number of Measures by Fuel Type		Estimated First-Year Savings										Average Estimated First Year Measure Cost and Savings Average per Treated Household											
	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	Spending on Materials & Labor (\$)	Electricity				Pk-Day therms	Annual therms	Propane gallons	Fuel Oil gallons	Other Mbtu
																						Summer kWh	Winter kWh	Annual kWh	Summer kWh					
Water Heating	42	3	38	1	0	0	60	3	56	1	0	0	30,017	0.0	0.0	729	6.8	1,251	35	0	0	714.69	0.000	0.005	243	0.179	33	35	-	-
Temp. Reduct.	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	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	
Pipe Insul.	19	1	18	0	0	0	0	0	0	0	0	72	0.00	0.00	98	0.2	74	0	0	0	3.79	0.000	0.000	98	0.012	4	4	-	-	
LF Showerhead	3	0	3	0	0	0	3	0	3	0	0	30	0.00	0.00	0	0.2	62	0	0	0	10.00	-	-	-	0.067	21	-	-	-	
Faucet Aerator	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	1	2	1	0	0	4	1	2	1	0	3,243	0.00	0.01	294	0.4	64	35	0	0	815.75	0.000	0.007	294	0.197	32	35	-	-	
Hi-Eff Wtr Htr Repl.	29	1	28	0	0	0	53	2	51	0	0	26,672	0.00	0.01	337	6.0	1,051	0	0	0	919.72	0.000	0.008	337	0.214	38	-	-	-	
Lighting	55	55	0	0	0	0	424	424	3,346	2.0	3.6	18,735	-	-	-	-	-	0	0	0	60.84	0.036	0.066	341	-	-	-	-	-	
CapsyLite (42W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	
CapsyLite (52W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	
CapsyLite (72W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	
CapsyLite, unknown	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	
CFL (5W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	
CFL (7W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	
CFL (9W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	
CFL (11W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	
CFL (14W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	
CFL (15W)	53	53	0	0	0	0	208	208	1,673	0.86	1.60	8,233	-	-	-	-	-	-	-	-	31.57	0.016	0.030	155	-	-	-	-	-	
CFL (18W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	
CFL (20W)	55	55	0	0	0	0	216	216	1,673	1.10	2.04	10,501	-	-	-	-	-	-	-	-	32.42	0.020	0.037	191	-	-	-	-	-	
CFL (23W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	
CFL (25W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	
CFL (30W)	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	
CFL, unknown	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	
Waterbed Mattress Pad	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0	0.0	0.0	0	0.0	0.0	0.00	-	-	-	-	-	-	-	-
King	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	
Queen	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	
Double	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	
Single	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	
Refrigerator/Freezer	33	33	0	0	0	0	38	38	19,823	3.70	3.46	30,048	-	-	-	-	-	600.69	0.112	0.105	911	-	-	-	-	-	-	-	-	
Refrigerator Remova	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	
Refrigerator Exchange	30	30	0	0	0	0	32	32	17,422	3.21	3.00	26,075	-	-	-	-	-	580.72	0.107	0.100	869	-	-	-	-	-	-	-	-	
Freezer Remova	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	-	
Freezer Exchange	6	6	0	0	0	0	6	6	2,401	0.49	0.46	3,973	-	-	-	-	-	400.21	0.081	0.076	662	-	-	-	-	-	-	-	-	

Costs for Measures Without Energy Impacts Installed in 62 Total Households with Spending and/or Energy Impacts:

Measure	Total	Spending on Materials & Labor (\$)	Total
Total	185,991	185,991	185,991
Unspecified Insul.	42	7,473	177.93
Duct Insulation	0	0	0.00
Duct Sealing	14	1,733	123.81
Damming Materia	0		

**South Central Iowa Community Action Program
Calendar Year 2006
Costs, Fuel, and Demand Impacts for All Measures**

Measure	Number of Households with Impacts						Count of Households with Electricity Impacts by End-Use		Estimated First-Year Savings										Average Estimated First Year Measure Cost and Savings																																												
	Total	Electric	Gas	Propane	Fuel Oil	Other	Cooling		Heating		Spending on Materials & Labor (\$)	Electricity		Summer kW	Winter kWh	Annua kWh	Pk-Day therms	Annua therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor (\$)	Electricity		Summer kW	Winter kWh	Annua kWh	Pk-Day therms	Annua therms	Propane gallons	Fuel Oil gallons	Other Mbtu																															
							Summer	Winter	Summer	Winter		Summer	Winter										Summer	Winter									Annua	Pk-Day	Annua	Propane	Fuel Oil	Other	Summer	Winter	Annua	Pk-Day	Annua	Propane	Fuel Oil	Other																	
OVERALL	37	37	18	17	0	0	25	35	137,898	8.6	11.9	50,438	58	5,478	3,904	0	0	37,269.97	0.239	0.321	1,363	3,235	304	230	-	-	37	37	18	17	0	0	25	35	137,898	8.6	11.9	50,438	58	5,478	3,904	0	0	37,269.97	0.239	0.321	1,363	3,235	304	230	-	-											
Shell & Htg. Sys.	37	35	18	17	0	0	25	35	115,888	5.2	4,956	16,701	57	5,154	3,793	0	0	31,321.11	0.208	198	0.225	336	477	3,171	286	223	-	-	-	25	35	115,888	5.2	4,956	16,701	57	5,154	3,793	0	0	31,321.11	0.208	198	0.225	336	477	3,171	286	223	-	-												
Wall Insul.	26	26	16	10	0	0	19	26	13,179	2.20	2,146	0.78	1,172	3,318	13	1,160	868	0	0	506.87	0.116	113	0.030	45	128	0.800	72	87	-	-	-	19	26	13,179	2.20	2,146	0.78	1,172	3,318	13	1,160	868	0	0	506.87	0.116	113	0.030	45	128	0.800	72	87	-	-								
Ceiling Insul.	29	29	15	13	0	0	22	29	32,680	2.49	2,327	2.69	3,952	6,280	10	866	865	0	0	11,236.91	0.113	106	0.093	136	217	0.641	58	67	-	-	-	22	29	32,680	2.49	2,327	2.69	3,952	6,280	10	866	865	0	0	11,236.91	0.113	106	0.093	136	217	0.641	58	67	-	-								
Infl. Reduction	34	34	17	16	0	0	25	34	9,109	0.34	330	0.85	1,258	1,588	5	432	495	0	0	267.93	0.014	13	0.025	37	47	0.283	25	31	-	-	-	25	34	9,109	0.34	330	0.85	1,258	1,588	5	432	495	0	0	267.93	0.014	13	0.025	37	47	0.283	25	31	-	-								
Found./Crawl. Insul.	21	21	10	11	0	0	15	21	13,467	0.17	153	0.56	831	984	5	456	977	0	0	641.30	0.011	10	0.027	40	47	0.504	46	89	-	-	-	15	21	13,467	0.17	153	0.56	831	984	5	456	977	0	0	641.30	0.011	10	0.027	40	47	0.504	46	89	-	-								
Bandjoist Insul.	15	15	10	5	0	0	-	15	1,244	0.00	0	0.03	39	39	0	42	25	0	0	82.90	-	-	0.002	3	3	0.047	4	5	-	-	-	-	15	1,244	0.00	0	0.03	39	39	0	42	25	0	0	82.90	-	-	0.002	3	3	0.047	4	5	-	-								
Hi-Eff Htg Sys Repl	17	0	14	3	0	0	-	0	36,079	0.00	0	0.00	0	23	2,037	448	0	0	2,239.91	-	-	-	-	-	1,615	146	149	-	-	-	-	0	36,079	0.00	0	0.00	0	23	2,037	448	0	0	2,239.91	-	-	-	-	-	1,615	146	149	-	-										
Std-Eff Htg Sys Repl	2	0	1	1	0	0	-	0	7,774	0.00	0	0.00	0	2	160	114	0	0	3887.03	-	-	-	-	-	1,737	160	114	-	-	-	-	0	7,774	0.00	0	0.00	0	2	160	114	0	0	3887.03	-	-	-	-	-	1,737	160	114	-	-										
Electric Htg Sys Repl	1	1	0	0	0	0	-	1	356	0.00	0	2.95	4,491	4,491	0	0	0	0	356.25	-	-	2,955	4,491	4,491	-	-	-	-	1	356	0.00	0	2.95	4,491	4,491	0	0	0	356.25	-	-	2,955	4,491	4,491	-	-	-																
Heat Pump Rep	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	0	0	0.00	0	0.00	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	0.00	-	-	-	-	-	-	-	-	-	0	0	0.00	0	0.00	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-																
	Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other	Summer kW	Winter kWh	Annua kWh	Pk-Day therms	Annua therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor (\$)	Summer kW	Winter kWh	Annua kWh	Pk-Day therms	Annua therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other	Summer kW	Winter kWh	Annua kWh	Pk-Day therms	Annua therms	Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor (\$)	Summer kW	Winter kWh	Annua kWh	Pk-Day therms	Annua therms	Propane gallons	Fuel Oil gallons	Other Mbtu					
Water Heating	23	9	11	3	0	0	64	28	28	8	0	0	3,723	0.0	0.1	4,956	1.2	324	111	0	0	161.85	0.000	0.012	551	0.105	29	37	-	-	23	9	11	3	0	0	64	28	28	8	0	0	3,723	0.0	0.1	4,956	1.2	324	111	0	0	161.85	0.000	0.012	551	0.105	29	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	-	-	-	-	-	-	-	-	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	-	-	-	-	-	0	0	0	0	0	0
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	-	-	-	-	-	-	-	-	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	-	-	-	-	-	0	0	0	0	0	0
Pipe Insul.	3	1	0	2	0	0	0	0	0	0	0	0	11	0.00	0.00	98	0.0	0	8	0	0	3.57	0.000	0.000	98	-	-	4	-	-	3	1	0	2	0	0	0	0	0	0	0	0	11	0.00	0.00	98	0.0	0	8	0	0	3.57	0.000	0.000	98	-	-	4	-	-			
LF Showerhead	15	7	6	2	0	0	17	8	7	2	0	0	88	0.00	0.08	3,397	0.6	191	61	0	0	5.84	0.000	0.011	485	0.104	32	31	-	-	15	7	6	2	0	0	17	8	7	2	0	0	88	0.00	0.08	3,397	0.6	191	61	0	0	5.84	0.000	0.011	485	0.104	32	31	-	-			
Faucet Aerator	19	8	9	2	0	0	40	17	18	5	0	0	69	0.00	0.01	534	0.1	33	9	0	0	3.65	0.000	0.002	67	0.012	4	4	-	-	19	8	9	2	0	0	40	17	18	5	0	0	69	0.00	0.01	534	0.1	33	9	0	0	3.65	0.000	0.002	67	0.012	4	4	-	-			
Std-Eff Wtr Htr Repl.	4	2	1	1	0	0	4	2	1	1	0	0	2,133	0.00	0.01	589	0.0	30	33	0	0	533.35	0.000	0.004	294	0.001	30	33	-	-	4	2	1	1	0	0	4	2	1	1	0	0	2,133	0.00	0.01	589	0.0	30	33	0	0	533.35	0.000	0.004	294	0.001	30	33	-	-			
Hi-Eff Wtr Htr Repl.	3	1	2	0	0	0	3	1	2	0	0	0	1,421	0.00	0.01	337	0.4	70	0	0	0	473.80	0.000	0.008	337	0.214	35	-	-	-	3	1	2	0	0	0	3	1	2	0	0	0	1,421	0.00	0.01	337	0.4	70	0	0	0	473.80	0.000	0.008	337	0.214	35	-	-	-			
Lighting	22	22	0	0	0	0	205	205	0	0	0	0	1,121	0.8	1.4	7,425	-	-	-	-	-	50.95	0.035	0.065	337	-	-	-	-	-	22	22	0	0	0	0	205	205	0	0	0	0	1,121	0.8	1.4	7,425	-	-	-	-	-	50.95	0.035	0.065	337	-	-						
Capsy lite (42W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-						
Capsy lite (52W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-						
Capsy lite (72W)	2	2	0	0	0	0	2	2	457	0.01	0.00	0.00	60	-	-	-	-	-	228.55	0.003	0.006	30	-	-	-	-	-	2	2	0	0	0	0	2	2	457	0.01	0.00	0.00	60	-	-	228.55	0.003	0.006	30	-	-	-	-	-												
Capsy lite, unknown	0	0	0	0																																																											

**Southern Iowa Economic Development Authority
Calendar Year 2006
Costs, Fuel, and Demand Impacts for All Measures**

Measure	Number of Households with Impacts						Count of Households with Electricity Impacts by End-Use						Estimated First-Year Savings											Average Estimated First Year Measure Cost and Savings Average per Treated Household										
	Total	Electric		Gas	Propane	Fuel Oil	Other	Cooling		Heating		Spending on Materials & Labor (\$)	Electricity		Annua kWh	Gas		Propane	Fuel Oil	Other	Spending on Materials & Labor (\$)	Electricity		Annua kWh	Gas		Propane	Fuel Oil	Other					
		202	201	136	52	3	0	147	199	689,129	40.3		64.8	318,799		233	21,805	9,221	357	0		3411.53	0.205		0.321	1,578	1.713	160	177	119	-			
OVERALL	202	201	136	52	3	0	147	199	689,129	40.3	64.8	318,799	233	21,805	9,221	357	0	3411.53	0.205	0.321	1,578	1.713	160	177	119	-								
Shell & Htg. Sys.	201	201	134	52	3	0	147	199	501,274	19.5	22,295	39.3	58,432	80,726	225	19,928	8,869	357	0	2493.90	0.133	0.197	294	402	1,676	149	171	119	-					
Wall Insul.	78	78	48	26	2	0	56	78	48,787	5.12	6,052	7.28	10,858	16,909	41	3,690	2,099	147	0	625.47	0.092	0.093	139	217	0.863	77	81	74	-					
Ceiling Insul.	155	155	96	44	3	0	118	154	105,553	11.06	12,778	12.10	17,997	30,774	38	3,398	1,463	67	0	681.02	0.096	0.079	117	199	0.399	35	33	22	-					
Infltr. Reduction	185	185	88	50	3	0	147	152	66,547	2.06	2,316	7.07	10,467	12,782	30	2,673	1,501	29	0	359.71	0.014	0.047	69	69	0.343	30	30	10	-					
Found./Crawl. Insul.	90	90	62	24	1	0	65	90	31,628	1.00	1,150	5.31	7,919	9,069	26	2,309	1,202	7	0	351.42	0.015	0.059	88	101	0.419	37	50	7	-					
Bandjoist Insul.	133	133	91	37	0	0	-	133	12,337	0.00	0	0.85	1,272	1,272	5	446	202	0	0	92.76	-	-	0.006	10	10	0.055	5	5	-	-				
Hi-Eff Htg Sys Repl	60	0	50	10	0	0	-	0	162,157	0.00	0	0.00	0	0	67	5,927	1,184	0	0	2702.62	-	-	-	-	1,337	118	-	-	-					
Std-Eff Htg Sys Repl	37	0	19	16	2	0	-	0	68,005	0.00	0	0.00	0	0	17	1,484	1,219	107	0	1837.97	-	-	-	-	0.884	78	76	53	-					
Electric Htg Sys Repl	1	1	0	0	0	0	-	1	265	0.00	0	2.81	4,176	4,176	0	0	0	0	0	265.00	-	-	2.814	4,176	4,176	-	-	-	-	-				
Heat Pump Rep	2	2	0	0	0	0	-	2	5,991	0.00	0	3.83	5,744	5,744	0	0	0	0	0	2995.50	-	-	1.917	2,872	2,872	-	-	-	-	-				
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	-	-	-	-	-	-	-	-	-	-				
	Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other	Summer kWh	Winter kWh	Annua kWh	Pk-Day thrms	Annua thrms	Propane gallons	Fuel Oil gallons	Other Mbtu	Summer kWh	Winter kWh	Annua kWh	Pk-Day thrms	Annua thrms	Propane gallons	Fuel Oil gallons	Other Mbtu						
Water Heating	182	99	76	7	0	0	324	174	130	20	0	0	60,847	0.0	1.2	61,483	8.4	1,877	352	0	0	0	334.33	0.000	0.012	621	0.110	25	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	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	0.00	-	-	-	-	-	-	-	-			
Pipe Insul.	159	87	65	7	0	0	0	0	803	0.00	0.02	0.02	8,557	0.8	275	32	0	0	0	5.05	0.000	0.000	98	0.012	4	5	-	-	-	-	-			
LF Showerheac	96	56	34	6	0	0	111	60	44	7	0	0	777	0.00	0.79	34,717	1.8	545	125	0	0	8.09	0.000	0.014	620	0.052	16	21	-	-				
Faucet Aeratoi	85	44	36	5	0	0	124	65	51	8	0	0	234	0.00	0.08	3,739	0.3	84	14	0	0	2.76	0.000	0.002	85	0.008	2	3	-	-				
Std-Eff Wtr Htr Repl.	73	48	20	5	0	0	73	48	20	5	0	0	52,171	0.00	0.28	14,134	3.7	663	181	0	0	714.67	0.000	0.006	294	0.183	33	36	-	-				
Hi-Eff Wtr Htr Repl.	9	1	8	0	0	0	16	1	15	0	0	0	6,862	0.00	0.01	337	1.9	310	0	0	0	762.44	0.000	0.008	337	0.238	39	-	-	-				
Lighting	168	168					997	997					6,470	5.3	9.9	50,897	-	-	-	-	-	38.51	0.032	0.059	303	-	-	-	-	-				
CapsyLite (42W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-			
CapsyLite (52W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-			
CapsyLite (72W)	1	1					1	1					75	0.00	0.00	38	-	-	-	-	-	75.00	0.004	0.007	38	-	-	-	-	-	-			
CapsyLite, unknown	0	0					0	0					0	0.00	0.00	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 (14W)	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-			
CFL (15W)	93	93					564	564					3,523	2.34	4.32	22,268	-	-	-	-	-	37.88	0.025	0.046	239	-	-	-	-	-	-			
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)	1	1					4	4					25	0.03	0.05	268	-	-	-	-	-	24.96	0.028	0.052	268	-	-	-	-	-	-			
CFL (25W)	93	93					428	428					2,847	2.97	5.49	28,322	-	-	-	-	-	30.62	0.032	0.059	305	-	-	-	-	-	-			
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	-	-	-	-	-	-	-	-	-			
Waterbed Mattress Pad	0	0					0	0					0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	-			
King	0	0					0	0					0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	-			
Queen	0	0					0	0					0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	-			
Double	0	0					0	0					0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	-			
Single	0	0					0	0					0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	-			
Unknown	0	0					0	0					0	0.00	0.00	0	0.0	0	0.0	0.0	0.0	0.00	-	-	-	-	-	-	-	-	-			
Refrigerator/Freezer	125	125					259	259					120,538	15.46	14.45	125,693	-	-	-	-	-	964.30	0.124	0.116	1,006	-	-	-	-	-	-			
Refrigerator Remova	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-			
Refrigerator Exchange	105	105					181	181					91,936	11.23	10.50	91,263	-	-	-	-	-	875.58	0.107	0.100	869	-	-	-	-	-	-			
Freezer Remova	0	0					0	0					0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-			
Freezer Exchange	52	52					78	78																										

**Community Action Agency of Siouxland
Calendar Year 2006
Costs, Fuel, and Demand Impacts for All Measures**

Measure	Number of Households with Impacts						Count of Households with Electricity Impacts by End-Use		Spending on Materials & Labor (\$)	Estimated First-Year Savings						Average Estimated First Year Measure Cost and Savings Average per Treated Household														
	Total	Electric	Gas	Propane	Fuel Oil	Other	Cooling	Heating		Electricity		Annua kWh	Gas		Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor (\$)	Electricity		Annua kWh	Gas		Propane gallons	Fuel Oil gallons	Other Mbtu				
										Summer kWh	Winter kWh		Pk-Day therms	Annua therms					Summer kWh	Winter kWh		Pk-Day therms	Annua therms							
OVERALL	88	88	78	2	0	0	77	88	401,948	24.5	52.1	160,406	317	29,841	459	0	0	4567.59	0.281	0.592	1,823	4.063	383	229	-	-				
Shell & Htg. Sys.	88	88	78	2	0	0	77	88	366,937	15.7	17,364	40.9	63,672	81,036	314	29,210	459	0	4169.74	0.203	0.464	724	921	4,028	374	229	-	-		
Wall Insul.	52	52	47	1	0	0	45	52	55,992	6.53	7,401	10.23	15,925	23,325	75	6,988	164	0	1076.76	0.145	0.197	306	449	1,598	149	164	-	-		
Ceiling Insul	86	86	76	2	0	0	76	86	91,613	6.06	7,640	10.91	16,949	24,589	48	4,480	149	0	1065.26	0.092	0.127	197	286	0,634	59	75	-	-		
Inflr. Reduction	79	79	69	2	0	0	68	79	21,046	0.72	816	3.79	5,907	6,724	35	3,210	66	0	266.41	0.011	0.048	75	85	0,501	47	33	-	-		
Found./Crawl. Insul	38	38	33	1	0	0	33	38	28,963	1.46	1,507	4.07	6,335	7,842	23	2,090	71	0	762.18	0.044	0.107	167	206	0,683	63	71	-	-		
Bandjoist Insul.	21	21	17	1	0	0	-	21	2,736	0.00	0	0.34	528	528	1	121	8	0	130.29	-	0.016	25	25	0,077	7	8	-	-		
Hi-Eff Htg Sys Repl	50	0	50	0	0	0	-	0	138,857	0.00	0	0.00	0	0	115	10,725	0	0	2777.13	-	-	-	-	2,306	215	-	-	-	-	
Std-Eff Htg Sys Repl	13	0	13	0	0	0	-	0	19,231	0.00	0	0.00	0	0	17	1,596	0	0	1171.62	-	-	-	-	1,316	123	-	-	-	-	
Electric Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	
Heat Pump Rep	5	5	0	0	0	0	-	5	12,500	0.00	0	11.53	18,027	18,027	0	0	0	0	2500.00	-	-	2,305	3,605	3,605	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-	-

Measure	Number of Households with Impacts						Number of Measures by Fuel Type						Spending on Materials & Labor (\$)	Estimated First-Year Savings						Average Estimated First Year Measure Cost and Savings Average per Treated Household															
	Total	Electric	Gas	Propane	Fuel Oil	Other	Total	Electric	Gas	Propane	Fuel Oil	Other		Summer kWh	Winter kWh	Annua kWh	Gas		Propane gallons	Fuel Oil gallons	Other Mbtu	Spending on Materials & Labor (\$)	Electricity		Annua kWh	Gas		Propane gallons	Fuel Oil gallons	Other Mbtu					
																	Pk-Day therms	Annua therms					Summer kWh	Winter kWh		Pk-Day therms	Annua therms								
Water Heating	53	16	37	0	0	0	0	0	0	0	0	0	0	0	3,383	0.0	0.0	3,278	2.7	631	0	0	0	63.83	0.000	0.003	205	0.073	17	-	-	-	-		
Temp. Reduct.	0	0	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	0	0.00	0.00	0	0.0	0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-	-
Pipe Insul.	47	14	33	0	0	0	0	0	0	0	0	0	0	0	244	0.00	0.00	1,377	0.6	199	0	0	0	5.18	0.000	0.000	98	0.017	6	-	-	-	-	-	
LF Showerheac	7	2	5	0	0	0	0	0	0	0	0	0	0	0	61	0.00	0.04	1,901	0.6	179	0	0	0	8.67	0.000	0.022	950	0.117	36	-	-	-	-	-	
Faucet Aeratoi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0	0.00	-	-	-	-	-	-	-	-	-	-		
Std-Eff Wtr Htr Repl.	3	0	3	0	0	0	0	0	0	0	0	0	0	0	1,933	0.00	0.00	0	0.9	142	0	0	0	644.25	-	-	-	0.290	47	-	-	-	-	-	
Hi-Eff Wtr Htr Repl.	2	0	2	0	0	0	0	0	0	0	0	0	0	0	1,146	0.00	0.00	0	0.7	111	0	0	0	573.09	-	-	-	0.339	55	-	-	-	-	-	
Lighting	80	80	0	0	0	0	0	0	0	0	0	0	0	0	3,394	3.2	5.9	30,640	-	-	-	-	-	42.42	0.040	0.074	383	-	-	-	-	-	-	-	
Capsyrite (42W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
Capsyrite (52W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
Capsyrite (72W)	2	2	0	0	0	0	0	0	0	0	0	0	0	0	80	0.01	0.01	68	-	-	-	-	-	40.00	0.004	0.007	34	-	-	-	-	-	-	-	
Capsyrite, unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL (5W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL (7W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL (9W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL (11W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL (14W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL (15W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL (18W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL (20W)	38	38	380	0	0	0	0	0	0	0	0	0	0	0	0	0.67	1.25	6,428	-	-	-	-	-	21.85	0.018	0.033	169	-	-	-	-	-	-	-	
CFL (23W)	75	75	0	0	0	0	0	0	0	0	0	0	0	0	2,469	2.52	4.66	24,013	-	-	-	-	-	32.92	0.034	0.062	320	-	-	-	-	-	-	-	
CFL (25W)	1	1	0	0	0	0	0	0	0	0	0	0	0	0	14	0.01	0.03	131	-	-	-	-	-	14.00	0.014	0.025	131	-	-	-	-	-	-	-	
CFL (30W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-		
CFL, unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	0	-	-	-	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
Waterbed Mattress Pad	0	0	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	0.0	0.00	-	-	-	-	-	-	-	-	-	-	
King	0	0	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	0.0	0.00	-	-	-	-	-	-	-	-	-	-	
Queen	0	0	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	0.0	0.00	-	-	-	-	-	-	-	-	-	-	
Double	0	0	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	0.0	0.00	-	-	-	-	-	-	-	-	-	-	
Single	0	0	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	0.0	0.											

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

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

**Hawkeye Area Community Action Program
Calendar Year 2006
Costs, Fuel, and Demand Impacts for Utility-Funded Measures**

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use		Spending on Materials & Labor (\$)	Estimated First-Year Savings					Average Estimated First Year Measure Cost and Savings Average per Treated Household									
	Total	Electric	Gas	Cooling	Heating		Electricity		Annual kWh	Pk-Day therms	Annual therms	Spending on Materials & Labor (\$)	Electricity		Annual kWh	Pk-Day therms	Annual therms				
							Summer kWh	Winter kWh					Summer kWh	Winter kWh							
OVERALL	207	192	119			414,385	22.0	30.0	167,232	238	22,227	2001.86	0.114	0.159	871	2,004	187				
Shell & Htg. Sys.	191	155	118	144	120	346,352	5.2	6.268	6.0	9,285	15,554	236	21,673	1813.36	0.036	44	0.050	77	100	1,998	184
Wall Insul.	99	82	57	79	12	108,094	2.43	2,925	0.54	816	3,741	83	7,600	1091.86	0.031	37	0.045	68	46	1,448	133
Ceiling Insul	144	127	85	116	38	79,137	2.35	2,836	2.07	3,198	6,034	36	3,332	549.56	0.020	24	0.055	84	48	0.426	39
Infl. Reductor	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-	-
Found./Crawl. Insul.	99	78	62	74	18	71,168	0.42	507	3.37	5,231	5,738	30	2,723	718.87	0.006	7	0.187	291	74	0.481	44
Bandjoist Insul.	47	13	47	-	13	6,164	0.00	0	0.03	41	41	3	236	131.15	-	-	0.002	3	3	0.055	5
Hi-Eff Htg Sys Repl	47	0	47	-	0	81,787	0.00	0	0.00	0	0	85	7,782	1740.16	-	-	-	-	-	1,799	166
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-	-
Heat Pump Rep	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-	-
	Total	Electric	Gas	Number of Measures by Fuel Type			Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms				
Water Heating	28	5	23	29	9	20	5,906	0.0	0.1	2,548	2.7	554	210.93	0.000	0.011	510	0.119	24			
Temp. Reduct.	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-			
WH Wrap	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-			
Pipe Insul.	10	2	8				48	0.00	0.00	197	0.1	35	4.80	0.000	0.000	98	0.013	4			
LF Showerhead	10	2	8	11	3	8	84	0.00	0.04	1,901	0.6	189	8.40	0.000	0.022	950	0.077	24			
Faucet Aeratoi	5	3	2	9	6	3	20	0.00	0.01	450	0.0	4	4.00	0.000	0.003	150	0.006	2			
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	-	-	-	-	-	-			
Hi-Eff Wtr Htr Repl.	9	0	9	9	0	9	5,754	0.00	0.00	0	2.0	327	639.33	-	-	-	0.222	36			
Lighting	187	187		2,048	2,048		14,413	9.1	16.8	86,541	-	-	77.07	0.049	0.090	463	-	-			
CapsyLite (42W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CapsyLite (52W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CapsyLite (72W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CapsyLite, unknown	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (5W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (7W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (9W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (11W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (14W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (15W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (18W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (20W)	187	187		2,048	2,048		14,413	9.09	16.79	86,541	-	-	77.07	0.049	0.090	463	-	-			
CFL (23W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (25W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (30W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL, unknown	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
Waterbed Mattress Pad	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-			
King	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-			
Queen	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-			
Double	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-			
Single	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-			
Unknown	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-			
Refrigerator/Freezer	80	80		85	85		47,715	7.70	7.20	62,590	-	-	596.43	0.096	0.090	782	-	-			
Refrigerator Remova	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
Refrigerator Exchange	77	77		77	77		44,646	7.11	6.64	57,774	-	-	579.81	0.092	0.086	750	-	-			
Freezer Remova	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
Freezer Exchange	8	8		8	8		3,069	0.59	0.55	4,816	-	-	383.61	0.074	0.069	602	-	-			
Costs for Measures Without Energy Impacts Installed in 210 Total Households with Spending and/or Energy Impacts:							48,143														
Total							48,143														
Unspecified Insul.	0						0.00														
Duct Insulation	0						0.00														
Duct Sealing	0						0.00														
Damming Materia	0						0.00														
Htg. Sys. Tune & Clean	0						0.00														
Htg. Sys./WH Other	0						0.00														
Space Heater Repl	0						0.00														
Air Conditioning Work	0						0.00														
Water Heater Repair	0						0.00														
Refrigerator Coil Clear	0						0.00														
Unspecified Utility Meas	0						0.00														
Asbestos Abatement	0						0.00														
CO Detector	0						0.00														
Smoke Detector	0						0.00														
Fuses	0						0.00														
Htg Sys Safety Check	0						0.00														
Exhaust Ventilator	2						350														
Health/Safety Repair	0						0														
Health/Safety Other	0						0														
Consumables	0						0.00														
Preservation	0						0.00														
Roof Repairs	0						0.00														
General Repairs	1						13														
Evaluator Labor	0						0.00														
Inspector Labor	0						0.00														
Eval/Insp Labor	0						0.00														
Meter Refrig (no action)	0						0.00														
Meter Freezer (no action)	0						0.00														
Support	142						47,780														
Landlord Contr Misc	0						0.00														
Landlord Contr Furnace	0						0.00														
Landlord Contr DHW	0						0.00														
Client Contr Misc	0						0.00														
Client Contr Refr	0						0.00														
Warehouse	0						0.00														
Unspecified	0						0.00														
Total Reported Materials, Labor, and Support Costs							462,528														
Grand Total of Expenditures							462,528														

**Community Action of Eastern Iowa
Calendar Year 2006
Costs, Fuel, and Demand Impacts for Utility-Funded Measures**

Measure	Number of Households with Impacts			Count of Households by End-Use		Spending on Materials & Labor (\$)	Estimated First-Year Savings					Average Estimated First Year Measure Cost and Savings									
	Total	Electric	Gas	Cooling	Heating		Electricity		Annual kWh	Pk-Day therms	Annual therms	Spending on Materials & Labor (\$)	Electricity		Annual kWh	Pk-Day therms	Annual therms				
							Summer kWh	Winter kWh					Summer kWh	Winter kWh							
OVERALL	130	106	125			382,146	29.3	17.8	118,814	282	27,408	2939.58	0.282	0.168	1,121	2,255	219				
Shell & Htg. Sys.	127	103	125	89	125	328,040	19.7	23,773	4.4	6,740	30,513	269	24,378	2582.99	0.221	267	0.035	54	296	2,150	195
Wall Insul.	85	73	85	60	73	118,212	7.37	8,887	2.73	4,172	13,060	113	10,284	1390.73	0.123	148	0.037	57	179	1,333	121
Ceiling Insul	101	82	101	62	81	49,814	12.29	14,825	1.07	1,623	16,448	42	3,838	485.26	0.198	239	0.013	20	201	0.420	38
Infl. Reductor	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	52	43	50	38	40	24,949	0.05	60	0.49	748	808	20	1,780	479.79	0.001	2	0.012	19	19	0.393	36
Bandjoist Insul.	66	53	66	-	53	10,649	0.00	0	0.13	197	197	5	417	161.35	-	-	0.002	4	4	0.070	6
Hi-Eff Htg Sys Repl	52	0	52	-	0	124,916	0.00	0	0.00	0	0	89	8,060	2402.23	-	-	-	-	-	1.706	155
Sub-Eff Htg Sys Repl	0	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 Rep	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	Total	Electric	Gas	Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms				
Water Heating	105	4	101	209	6	203	18,169	0.0	0.1	3,819	13.1	3,030	173.04	0.000	0.022	955	0.130	30			
Temp. Reduct.	1	0	1	0	0	0	0.00	0.00	0	0.1	30	0.00	-	-	-	-	-	0.087	30		
WH Wrap	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-		
Pipe Insul.	68	0	68	0	0	0	361	0.00	0.00	0	1.1	370	5.60	-	-	-	-	0.016	5		
LF Showerhead	48	2	46	48	2	46	480	0.00	0.07	2,928	3.8	1,168	10.00	0.000	0.033	1,464	0.083	25			
Faucet Aerator	77	1	76	131	2	129	393	0.00	0.00	217	0.9	269	5.10	0.000	0.005	217	0.012	4			
Sub-Eff Wtr Htr Repl.	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-			
Hi-Eff Wtr Htr Repl.	30	2	28	30	2	28	16,915	0.00	0.02	673	7.3	1,191	563.83	0.000	0.008	337	0.261	43			
Lighting	100	100		797	797		5,579	4.7	8.7	45,070	-	-	55.79	0.047	0.087	451	-	-			
CapsyLite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CapsyLite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CapsyLite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CapsyLite, unknown	0	0		0	0		0	0.00	0.00	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 (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)	100	100		797	797		5,579	4.73	8.74	45,070	-	-	55.79	0.047	0.087	451	-	-			
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	-	-	-	-	-			
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Refrigerator/Freezer	44	44		53	53		30,358	4.85	4.53	39,412	-	-	689.95	0.110	0.103	896	-	-			
Refrigerator Remova	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Refrigerator Exchange	43	43		43	43		25,654	4.13	3.86	33,600	-	-	596.60	0.096	0.090	781	-	-			
Freezer Remova	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Freezer Exchange	10	10		10	10		4,704	0.71	0.67	5,813	-	-	470.40	0.071	0.067	581	-	-			
Costs for Measures Without Energy Impacts Installed in 130 Total Households with Spending and/or Energy Impacts:							79,162														
Total							79,162														
Unspecified Insul.							0														
Duct Insulation							0														
Duct Sealing							0														
Damming Materia							0														
Htg. Sys. Tune & Clean							0														
Htg. Sys./WH Other							0														
Space Heater Repl							0														
Air Conditioning Work							0														
Water Heater Repair							0														
Refrigerator Coil Clear							0														
Unspecified Utility Meas							0														
Asbestos Abatement							0														
CO Detector							0														
Smoke Detector							0														
Fuses							0														
Htg Sys Safety Check							0														
Exhaust Ventilator							37														
Health/Safety Repair							0														
Health/Safety Other							0														
Consumables							0														
Preservation							0														
Roof Repairs							0														
General Repairs							119														
Evaluator Labor							0														
Inspector Labor							0														
Eval/Insp Labor							0														
Meter Refrig (no action)							0														
Meter Freezer (no action)							0														
Support							128														
Landlord Contr Misc							0														
Landlord Contr Furnace							0														
Landlord Contr DHW							0														
Client Contr Misc							0														
Client Contr Refr							0														
Warehouse							0														
Unspecified							0														
Total Reported Materials, Labor, and Support Costs							461,308														
Grand Total of Expenditures							461,308														

MATURA Action Corporation
Calendar Year 2006
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use			Spending on Materials & Labor (\$)	Estimated First-Year Savings					Average Estimated First Year Measure Cost and Savings Average per Treated Household											
	Total	Electric	Gas	Cooling	Heating			Summer		Electricity		Annual kWh	Gas		Spending on Materials & Labor (\$)	Summer		Electricity		Annual kWh	Gas			
								kW	kWh	kW	kWh		Pk-Day therms	Annual therms		kW	kWh	kW	kWh		Pk-Day therms	Annual therms		
OVERALL	34	29	25				85,589	6.7		5.0	30,050	36	3,327	2,517.33	0.231	0.172	1,036	1,452	133					
Shell & Htg. Sys.	32	25	25	25	26		69,062	4.3	5,127	1.7	2,538	7,665	35	3,181	2,158.20	0.170	0.065	98	307	1,417	127			
Wall Insul.	20	16	15	16	12		9,564	1.37	1,652	0.89	1,334	2,986	9	799	476.18	0.086	0.103	0.074	111	187	0.594	53		
Ceiling Insul	29	24	22	23	18		16,603	2.41	2,901	0.40	596	3,496	7	631	572.53	0.105	0.126	0.022	33	146	0.319	29		
Infil. Reductor	0	0	0	0	0		0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-	-	
Found./Crawl. Insul.	15	13	11	13	10		4,762	0.48	575	0.39	592	1,167	5	422	317.46	0.037	0.044	0.039	59	90	0.427	38		
Bandjoist Insul.	10	6	10	-	6		688	0.00	0	0.01	16	16	0	33	68.79	-	-	0.002	3	3	0.037	3		
Hi-Eff Htg Sys Repl	16	0	16	-	0		37,445	0.00	0	0.00	0	0	14	1,295	2340.34	-	-	-	-	-	0.901	81		
Std-Eff Htg Sys Repl	0	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 Rep	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	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	10	3	7	10	3	7	5,646	0.0	0.0	1,010	0.9	146	564.58	0.000	0.008	337	0.128	21						
Temp. Reduct.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	-	
WH Wrap	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	-	
Pipe Insul.	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.	10	3	7	10	3	7	5,646	0.00	0.02	1,010	0.9	146	564.58	0.000	0.008	337	0.128	21						
Lighting	28	28		261	261		1,827	1.1	2.0	10,163	-	-	65.25	0.038	0.070	363								
CapsyLite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CapsyLite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CapsyLite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CapsyLite, unknown	0	0		0	0		0	0.00	0.00	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 (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL (15W)	25	25		191	191		1,337	0.72	1.34	6,883	-	-	53.48	0.029	0.053	275								
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
CFL (20W)	22	22		58	58		406	0.28	0.51	2,623	-	-	16.46	0.013	0.023	119								
CFL (23W)	7	7		12	12		84	0.07	0.13	657	-	-	12.00	0.010	0.018	94								
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	-	-	-	-	-	-	-	-	-	-	
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	-	
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	-	
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	-	
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	-	
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	-	
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	-	
Refrigerator/Freezer	15	15		16	16		9,054	1.38	1.29	11,212	-	-	603.60	0.092	0.086	747								
Refrigerator Remova	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
Refrigerator Exchange	14	14		14	14		8,270	1.22	1.14	9,903	-	-	590.71	0.087	0.081	707								
Freezer Remova	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	-	
Freezer Exchange	2	2		2	2		784	0.16	0.15	1,310	-	-	392.00	0.081	0.075	655								
Costs for Measures Without Energy Impacts Installed in 34 Total Households with Spending and/or Energy Impacts:																								
Total							20,890																	
Unspecified Insul.							0							0.00										
Duct Insulation							0							0.00										
Duct Sealing							0							0.00										
Damming Materia							0							0.00										
Htg. Sys. Tune & Clean							0							0.00										
Htg. Sys./WH Other							0							0.00										
Space Heater Repl							0							0.00										
Air Conditioning Work							0							0.00										
Water Heater Repair							0							0.00										
Refrigerator Coil Clear							0							0.00										
Unspecified Utility Meas							0							0.00										
Asbestos Abatement							0							0.00										
CO Detector							0							0.00										
Smoke Detector							0							0.00										
Fuses							0							0.00										
Htg Sys Safety Check							0							0.00										
Exhaust Ventilator							20			2,618				130.88										
Health/Safety Repair							0			0.00				0.00										
Health/Safety Other							0			0.00				0.00										
Consumables							0			0.00				0.00										
Preservation							0																	

**Mid-Sioux Opportunity
Calendar Year 2006
Costs, Fuel, and Demand Impacts for Utility-Funded Measures**

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use			Spending on Materials & Labor (\$)	Estimated First-Year Savings					Average Estimated First Year Measure Cost and Savings Average per Treated Household									
	Total	Electric	Gas	Cooling	Heating			Summer		Electricity		Annual	Gas		Spending on Materials & Labor (\$)	Summer		Electricity		Annual	Gas	
								kWh	kWh	kWh	kWh		kWh	PK-Day		Annua	kWh	kWh	kWh		kWh	PK-Day
OVERALL	32	20	24				73,571	3.9	4.3	23,821	26	2,649	2,299.08	0.197	0.228	1,191	1,091	110				
Shell & Htg. Sys.	27	17	21	17	22		61,020	2.1	2,506	1.8	2,988	5,494	25	2,505	2,260.00	0.122	147	0.083	136	323	1,213	119
Wall Insul.	19	11	16	11	7		16,395	0.36	431	0.17	262	713	10	1,005	862.90	0.032	39	0.025	40	65	0.639	63
Ceiling Insul	23	14	18	14	8		14,299	1.73	2,086	0.08	130	2,215	4	417	621.68	0.124	149	0.010	16	158	0.236	23
Infil. Reductor	0	0	0	0	0		0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	10	6	7	6	4		3,459	-0.01	(10)	1.57	2,572	2,561	1	126	345.85	-0.001	(2)	0.392	643	427	0.182	18
Bandjoist Insul.	4	2	4	-	2		352	0.00	0	0.00	5	5	0	14	88.07	-	-	0.001	2	2	0.036	4
Hi-Eff Htg Sys Repl	12	0	12	-	0		26,516	0.00	0	0.00	0	0	10	942	2,209.64	-	-	-	-	-	0.798	79
Std-Eff Htg Sys Repl	0	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 Rep	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				Summer	Winter	Annua	PK-Day	Annua		Summer	Winter	Annua	PK-Day	Annua				
Water Heating	22	5	17	23	9	14	2,467	0.0	0.0	2,104	0.7	143	112.12	0.000	0.008	421	0.041	8				
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.	18	4	14				105	0.00	0.00	393	0.1	40	5.83	0.000	0.000	98	0.008	3				
LF Showerhead	1	1	0	1	1	0	10	0.00	0.03	1,464	0.0	0	10.00	0.000	0.033	1,464	0.008	2				
Faucet Aerator	11	4	7	18	8	10	48	0.00	0.01	246	0.1	16	4.40	0.000	0.001	62	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.	4	0	4	4	0	4	2,303	0.00	0.00	0	0.5	87	575.77	-	-	-	0.133	22				
Lighting	19	19	214	214	214	14	1,675	0.8	1.5	7,705	-	-	82.89	0.043	0.079	406	-	-				
CapsyLite (42W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CapsyLite (52W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CapsyLite (72W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CapsyLite, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CFL (5W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CFL (7W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CFL (9W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CFL (11W)	14	14	47	47	47	14	364	0.11	0.20	1,040	-	-	26.00	0.008	0.014	74	-	-				
CFL (14W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CFL (15W)	18	18	75	75	75	18	539	0.27	0.50	2,566	-	-	29.94	0.015	0.028	143	-	-				
CFL (18W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CFL (20W)	18	18	62	62	62	18	462	0.27	0.50	2,582	-	-	25.67	0.015	0.028	143	-	-				
CFL (23W)	11	11	30	30	30	11	210	0.16	0.29	1,517	-	-	19.09	0.014	0.027	138	-	-				
CFL (25W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CFL (30W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CFL, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
Refrigerator/Freezer	12	12	15	15	15	12	8,509	1.05	0.98	8,518	-	-	708.08	0.087	0.082	710	-	-				
Refrigerator Remova	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
Refrigerator Exchange	10	10	10	10	10	10	6,500	0.76	0.71	6,165	-	-	650.00	0.076	0.071	617	-	-				
Freezer Remova	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
Freezer Exchange	5	5	5	5	5	5	2,009	0.29	0.27	2,353	-	-	401.80	0.058	0.054	471	-	-				
Costs for Measures Without Energy Impacts Installed in 33 Total Households with Spending and/or Energy Impacts:							14,192															
Total							14,192															
Unspecified Insul.							3	37.83														
Duct Insulation							0	0.00														
Duct Sealing							0	0.00														
Damming Materia							0	0.00														
Htg. Sys. Tune & Clean							0	0.00														
Htg. Sys./WH Other							0	0.00														
Space Heater Repl							0	0.00														
Air Conditioning Work							0	0.00														
Water Heater Repair							0	0.00														
Refrigerator Coil Clear							0	0.00														
Unspecified Utility Meas							0	0.00														
Asbestos Abatement							0	0.00														
CO Detector							0	0.00														
Smoke Detector							0	0.00														
Fuses							0	0.00														
Htg Sys Safety Check							0	0.00														
Exhaust Ventilator							12	130.42														
Health/Safety Repair							0	0.00														
Health/Safety Other							0	0.00														
Consumables							0	0.00														
Preservation							0	0.00														
Roof Repairs							0	0.00														
General Repairs							26	157.58														
Evaluator Labor							0	0.00														
Inspector Labor							0	0.00														
Eval/Insp Labor							0	0.00														
Meter Refrig (no action)							0	0.00														
Meter Freezer (no action)							0	0.00														
Support							31	268.58														
Landlord Contr Misc							0	0.00														
Landlord Contr Furnace							0	0.00														
Landlord Contr DHW							0	0.00														
Client Contr Misc							0	0.00														
Client Contr Refr							0	0.00														
Warehouse							0	0.00														
Unspecified							0	0.00														
Total Reported Materials, Labor, and Support Costs							87,672															
Grand Total of Expenditures							87,672															

**City of Des Moines
Calendar Year 2006
Costs, Fuel, and Demand Impacts for Utility-Funded Measures**

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use			Spending on Materials & Labor (\$)	Estimated First-Year Savings					Average Estimated First Year Measure Cost and Savings Average per Treated Household									
	Total	Electric	Gas	Cooling	Heating			Electricity		Annual kWh	Gas		Spending on Materials & Labor (\$)	Electricity		Annual kWh	Gas					
								Summer kWh	Winter kWh		Pk-Day therms	Annual therms		Summer kWh	Winter kWh		Pk-Day therms	Annual therms				
OVERALL	18	18	18				57,288	2.3	1.8	2,118	1.0	1,468	3,585	81	7,679	3,182.64	0.130	0.109	504	4,492	427	
Shell & Htg. Sys.	18	18	18	18	18		54,741	1.8	2,118	1.0	1,468	3,585	79	7,114	3,041.17	0.098	0.054	82	199	4,376	395	
Wall Insul.	15	15	15	15	15		15,617	0.68	821	0.67	1,009	1,830	30	2,713	1,041.13	0.045	0.044	67	122	2,003	181	
Ceiling Insul	16	16	16	16	16		8,672	1.15	1,392	0.23	354	1,746	11	990	542.00	0.072	0.015	22	109	6,685	62	
Infl. Reductor	0	0	0	0	0		0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	
Found./Crawl. Insul.	4	4	4	4	4		790	-0.08	(96)	0.06	85	(11)	3	230	197.50	-0.020	(24)	0.014	21	(3)	0.636	57
Bandjoist Insul.	7	7	7	-	7		555	0.00	0	0.01	20	20	1	50	79.29	-	-	0.002	3	3	0.080	7
Hi-Eff Htg Sys Repl	13	0	13	-	0		29,107	0.00	0	0.00	0	0	35	3,131	2,238.00	-	-	-	-	-	2,667	241
Std-Eff Htg Sys Repl	0	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 Rep	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	Total	Electric	Gas		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms				
Water Heating	12	0	12	28	0	28	1,386	0.0	0.0	0	0	565	115.50	-	-	-	-	-	0.174	47		
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.	8	0	8	10	0	10	58	0.00	0.00	0	0.1	48	7.25	-	-	-	-	-	-	0.017	6	
LF Showerhead	10	0	10	10	0	10	65	0.00	0.00	0	1.2	378	6.50	-	-	-	-	-	-	0.123	38	
Faucet Aerator	8	0	8	16	0	16	63	0.00	0.00	0	0.1	44	7.88	-	-	-	-	-	-	0.018	6	
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.	2	0	2	2	0	2	1,200	0.00	0.00	0	0.6	95	600.00	-	-	-	-	-	-	0.290	47	
Lighting	14	14		84	84		756	0.5	0.9	4,618	-	-	54.00	0.035	0.064	330	-	-	-	-	-	
CapsyLite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	
CapsyLite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	
CapsyLite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	
CapsyLite, unknown	0	0		0	0		0	0.00	0.00	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 (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)	14	14		84	84		756	0.48	0.90	4,618	-	-	54.00	0.035	0.064	330	-	-	-	-	-	
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	-	-	-	-	-	-	-	-	
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
Refrigerator/Freezer	1	1		1	1		405	0.11	0.10	869	-	-	404.55	0.107	0.100	869	-	-	-	-	-	
Refrigerator Remova	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	
Refrigerator Exchange	1	1		1	1		405	0.11	0.10	869	-	-	404.55	0.107	0.100	869	-	-	-	-	-	
Freezer Remova	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 18 Total Households with Spending and/or Energy Impacts:																						
Total							10,191															
Unspecified Insul.							0						0.00									
Duct Insulation							0						0.00									
Duct Sealing							0						0.00									
Damming Materia							0						0.00									
Htg. Sys. Tune & Clean							0						0.00									
Htg. Sys./WH Other							3	340					113.33									
Space Heater Repl							0						0.00									
Air Conditioning Work							0						0.00									
Water Heater Repair							0						0.00									
Refrigerator Coil Clear							0						0.00									
Unspecified Utility Meas							0						0.00									
Asbestos Abatement							0						0.00									
CO Detector							0						0.00									
Smoke Detector							0						0.00									
Fuses							0						0.00									
Htg Sys Safety Check							0						0.00									
Exhaust Ventilator							8	1,013					126.63									
Health/Safety Repair							0						0.00									
Health/Safety Other							0						0.00									
Consumables							0						0.00									
Preservation							0						0.00									
Roof Repairs							0						0.00									
General Repairs							1	36					36.00									
Evaluator Labor							0						0.00									
Inspector Labor							0						0.00									
Eval/Insp Labor							0						0.00									
Meter Refrig (no action)							0						0.00									
Meter Freezer (no action)							0															

**North Iowa Community Action Organization
Calendar Year 2006
Costs, Fuel, and Demand Impacts for Utility-Funded Measures**

Measure	Number of Households with Impacts			Count of Households by End-Use Impacts		Spending on Materials & Labor (\$)	Estimated First-Year Savings					Average Estimated First Year Measure Cost and Savings Average per Treated Household									
	Total	Electric	Gas	Cooling	Heating		Summer		Electricity		Annual kWh	Gas		Spending on Materials & Labor (\$)	Summer		Electricity		Annual kWh	Gas	
							kWh	kWh	kWh	kWh		Pk-Day therms	Annual therms		kWh	kWh	Annual kWh	Pk-Day therms		Annual therms	
OVERALL	138	127	117			297,901	19.8		20.8		131,862	228	23,596	2158.70	0.157	0.163	1,038	1,948	202		
Shell & Htg. Sys.	137	126	116	116	117	233,964	6.4	7,701	3.9	6,533	14,234	222	22,178	1707.76	0.055	0.033	56	113	1,918		
Wall Insul.	96	89	82	80	74	66,396	4.45	5,363	2.03	3,394	8,757	87	8,627	691.63	0.056	0.027	46	98	1,056		
Ceiling Insul	131	122	110	111	100	64,772	1.86	2,244	1.60	2,665	4,909	54	5,369	494.44	0.017	0.016	27	40	0.490		
Infl. Reductor	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-		
Found./Crawl. Insul.	36	30	30	27	23	6,469	0.08	95	0.14	225	320	7	682	179.69	0.003	4	0.006	10	11		
Bandjoist Insul.	29	25	28	-	25	2,201	0.00	0	0.15	248	248	2	181	75.89	-	-	0.006	10	10		
Hi-Eff Htg Sys Repl	61	0	61	-	0	94,125	0.00	0	0.00	0	0	73	7,319	1543.04	-	-	-	-	1,201		
Sub-Eff Htg Sys Repl	0	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 Rep	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	Total	Electric	Gas	Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms		Annual kWh	Pk-Day therms	Annual therms
Water Heating	101	6	95	103	5	98	6,174	0.0	0.0	2,306	5.4	1,418	61.13	0.000	0.007	384	0.057	15			
Temp. Reduct.	0	0	0	0	0	0	0.00	0.00	0	0.0	0.0	0.00	-	-	-	-	-	-			
WH Wrap	0	0	0	0	0	0	0.00	0.00	0	0.0	0.0	0.00	-	-	-	-	-	-			
Pipe Insul.	90	6	84	90	6	84	157	0.00	0.00	590	1.0	363	1.74	0.000	0.000	98	0.012	4			
LF Showerhead	21	2	19	21	2	19	104	0.00	0.03	1,215	1.7	512	4.95	0.000	0.014	608	0.088	27			
Faucet Aerator	56	3	53	72	3	69	25	0.00	0.01	500	0.7	210	0.45	0.000	0.004	167	0.013	4			
Sub-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	0	10	10	0	10	5,888	0.00	0.00	0	2.0	333	588.80	-	-	-	-	204			
Lighting	124	124		1,260	1,260		7,189	4.7	8.7	44,744	-	-	57.98	0.038	0.070	361	-	-			
CapsyLite (42W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CapsyLite (52W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CapsyLite (72W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CapsyLite, unknown	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (5W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (7W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (9W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (11W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (14W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (15W)	124	124		1,260	1,260		7,189	4.70	8.68	44,744	-	-	57.98	0.038	0.070	361	-	-			
CFL (18W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (20W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (23W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (25W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL (30W)	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
CFL, unknown	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
Waterbed Mattress Pad	0	0	0	0	0	0	0.00	0.00	0	0.0	0.0	0.00	-	-	-	-	-	-			
King	0	0	0	0	0	0	0.00	0.00	0	0.0	0.0	0.00	-	-	-	-	-	-			
Queen	0	0	0	0	0	0	0.00	0.00	0	0.0	0.0	0.00	-	-	-	-	-	-			
Double	0	0	0	0	0	0	0.00	0.00	0	0.0	0.0	0.00	-	-	-	-	-	-			
Single	0	0	0	0	0	0	0.00	0.00	0	0.0	0.0	0.00	-	-	-	-	-	-			
Unknown	0	0	0	0	0	0	0.00	0.00	0	0.0	0.0	0.00	-	-	-	-	-	-			
Refrigerator/Freezer	77	77		102	102		50,574	8.68	8.12	70,578	-	-	656.81	0.113	0.105	917	-	-			
Refrigerator Remova	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
Refrigerator Exchange	64	64		64	64		36,097	6.19	5.79	50,319	-	-	564.02	0.097	0.090	786	-	-			
Freezer Remova	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-			
Freezer Exchange	38	38		38	38		14,477	2.49	2.33	20,258	-	-	380.97	0.066	0.061	533	-	-			
Costs for Measures Without Energy Impacts Installed in 138 Total Households with Spending and/or Energy Impacts:							70,180														
Total																					
Unspecified Insul.	0						0						0.00								
Duct Insulation	0						0						0.00								
Duct Sealing	0						0						0.00								
Damming Materia	0						0						0.00								
Htg. Sys. Tune & Clean	0						0						0.00								
Htg. Sys./WH Other	0						0						0.00								
Space Heater Repl	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								
Unspecified Utility Meas	0						0						0.00								
Asbestos Abatement	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								
Exhaust Ventilator	17						1,827						107.44								
Health/Safety Repair	0						0						0.00								
Health/Safety Other	0						0						0.00								
Consumables	0						0						0.00								
Preservation	0						0						0.00								
Roof Repairs	0						0						0.00								
General Repairs	134						29,946						223.48								
Evaluator Labor	0						0						0.00								
Inspector Labor	0						0						0.00								
Eval/Insp Labor	0						0						0.00								
Meter Refrig (no action)	0						0						0.00								
Meter Freezer (no action)	0						0						0.00								
Support	138						38,408						278.32								
Landlord Contr Misc	0						0						0.00								
Landlord Contr Furnace</																					

**Northeast Iowa Community Action Corporation
Calendar Year 2006
Costs, Fuel, and Demand Impacts for Utility-Funded Measures**

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use			Spending on Materials & Labor (\$)	Estimated First-Year Savings					Average Estimated First Year Measure Cost and Savings Average per Treated Household										
	Total	Electric	Gas	Cooling	Heating			Summer		Annual	Gas		Spending on Materials & Labor (\$)	Summer		Electricity		Annual	Gas				
								kW	kWh		kWh	kWh		PK-Day	Annual	kW	kWh		kWh	kWh	PK-Day	Annual	
OVERALL	91	80	49				152,896	9.5	17.7		82,989	87	8,851	1,680.17	0.120	0.230	1,037	1,774	181				
Shell & Htg. Sys.	73	57	43	47	49		106,308	2.2	2,681	9.1	14,788	17,469	83	8,051	1,456.27	0.047	57	0.185	302	306	1,920	187	
Wall Insul.	38	28	28	24	16		30,146	1.48	1,784	0.60	975	2,758	34	3,319	793.30	0.062	74	0.037	61	99	1,215	119	
Ceiling Insul	48	39	31	34	19		20,321	0.75	899	7.70	12,535	13,434	14	1,382	423.35	0.022	26	0.405	660	344	0.457	45	
Infl. Reductor	0	0	0	0	0		0	0.00	0	0.00	0	0	0	0.00	-	-	-	-	-	-	-	-	
Found./Crawl. Insul.	25	21	10	18	5		10,119	0.00	(2)	0.26	421	419	3	294	404.76	0.000	(0)	0.052	84	20	0.301	29	
Bandjoist Insul.	18	8	15	-	8		1,928	0.00	0	0.52	857	857	1	101	107.00	-	-	0.065	107	107	0.069	7	
Hi-Eff Htg Sys Repl	19	0	19	-	0		43,796	0.00	0	0.00	0	0	30	2,954	2305.07	-	-	-	-	-	1,597	155	
Std-Eff Htg Sys Repl	0	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 Rep	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	Total	Electric	Gas		Summer kW	Winter kW	Annual kWh	PK-Day	Annual		Summer kW	Winter kW	Annual kWh	PK-Day	Annual	therms	therms			
Water Heating	51	16	35	26	6	20	16,474	0.0	0.1	3,494	4.4	800	323.02	0.000	0.003	218	0.125	23					
Temp. Reduct.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	
WH Wrap	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	
Pipe Insul.	48	15	33				76	0.00	0.00	1,475	0.5	165	1.58	0.000	0.000	98	0.014	5					
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.	26	6	20	26	6	20	16,399	0.00	0.05	2,019	3.9	635	630.71	0.000	0.008	337	0.195	32					
Lighting	71	71		359	359		1,475	1.9	3.6	18,540	-	-	20.77	0.027	0.051	261							
CapsyLite (42W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
CapsyLite (52W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
CapsyLite (72W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
CapsyLite, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (5W)	1	1	1	1	1	1	4	0.00	0.00	17	-	-	4.00	0.002	0.003	17							
CFL (7W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (9W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (11W)	4	4		12	12		48	0.03	0.06	304	-	-	12.00	0.008	0.015	76							
CFL (14W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (15W)	31	31		134	134		536	0.56	1.03	5,308	-	-	17.29	0.018	0.033	171							
CFL (18W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (20W)	31	31		98	98		392	0.52	0.96	4,957	-	-	12.65	0.017	0.031	160							
CFL (23W)	21	21		66	66		264	0.45	0.84	4,309	-	-	12.57	0.022	0.040	205							
CFL (25W)	21	21		41	41		168	0.30	0.56	2,867	-	-	8.00	0.014	0.026	137							
CFL (30W)	6	6		7	7		63	0.08	0.15	778	-	-	10.48	0.014	0.025	130							
CFL, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	
Refrigerator/Freezer	47	47		61	61		28,639	5.35	5.00	43,486	-	-	608.34	0.114	0.106	925							
Refrigerator Remova	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
Refrigerator Exchange	35	35		35	35		19,442	3.39	3.17	27,565	-	-	555.49	0.097	0.091	788							
Freezer Remova	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
Freezer Exchange	26	26		26	26		9,197	1.96	1.83	15,921	-	-	353.73	0.075	0.070	612							
Costs for Measures Without Energy Impacts Installed in 91 Total Households with Spending and/or Energy Impacts:																							
Total							26,306																
Unspecified Insul.							0							0.00									
Duct Insulation							0							0.00									
Duct Sealing							0							0.00									
Damming Materia							0							0.00									
Htg. Sys. Tune & Clean							0							0.00									
Htg. Sys./WH Other							0							0.00									
Space Heater Repl							0							0.00									
Air Conditioning Work							0							0.00									
Water Heater Repair							0							0.00									
Refrigerator Coil Clear							0							0.00									
Unspecified Utility Meas							0							0.00									
Asbestos Abatement							0							0.00									
CO Detector							0							0.00									
Smoke Detector							0							0.00									
Fuses							0							0.00									
Htg Sys Safety Check							0							0.00									
Exhaust Ventilator							26			4,735				182.11									
Health/Safety Repair							0			0				0.00									
Health/Safety Other							0			0				0.00									
Consumables							0			0				0.00									
Preservation							0			0				0.00									
Roof Repairs							0			0				0.00									
General Repairs							41			5,230													

**Operation Threshold
Calendar Year 2006
Costs, Fuel, and Demand Impacts for Utility-Funded Measures**

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use		Spending on Materials & Labor (\$)	Estimated First-Year Savings					Average Estimated First Year Measure Cost and Savings Average per Treated Household										
	Total	Electric	Gas	Cooling	Heating		Summer		Electricity		Annual kWh	Gas		Spending on Materials & Labor (\$)	Summer		Electricity		Annual kWh	Gas		
							kW	kWh	kW	kWh		Pk-Day therms	Annual therms		kW	kWh	kW	kWh		Pk-Day therms	Annual therms	
OVERALL	63	60	61			207,307	8.6		9.0		57,176	122	12,625	3,290.59	0.143		0.150		953	1,994	207	
Shell & Htg. Sys.	62	60	60	48	60	175,022	3.4	4,126	2.2	3,603	7,729	116	11,243	282,293	0.071	86	0.037	60	129	1,927	187	
Wall Insul.	56	55	54	41	52	80,575	2.86	3,453	1.52	2,486	5,939	61	5,937	1438.85	0.070	84	0.029	48	108	1,131	110	
Ceiling Insul	55	54	53	33	51	42,883	0.55	664	0.53	858	1,522	19	1,820	775.05	0.017	20	0.010	17	28	0.353	34	
Infil. Reductor	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-	
Found./Crawl. Insul.	15	15	14	10	14	3,243	0.01	8	0.12	190	198	4	402	216.18	0.001	1	0.008	14	13	0.296	29	
Bandjoist Insul.	28	27	28	-	27	2,229	0.00	0	0.04	69	69	1	135	79.62	-	-	0.002	3	3	0.049	5	
Hi-Eff Htg Sys Repl	26	0	26	-	0	46,291	0.00	0	0.00	0	0	30	2,949	1780.43	-	-	-	-	-	1.167	113	
Std-Eff Htg Sys Repl	0	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 Rep	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			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	3	55	126	10	116	12,592	0.0	0.1	4,497	6.0	1,382	217.11	0.000	0.032	1,499	0.109	25				
Temp. Reduct.	3	0	3				0	0.00	0.00	0	0.1	48	0.00	-	-	-	-	-	0.046	16		
WH Wrap	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
Pipe Insul.	55	3	52				324	0.00	0.00	295	0.5	180	5.89	0.000	0.000	98	0.010	3				
LF Showerhead	32	3	29	32	3	29	320	0.00	0.08	3,365	1.6	506	10.00	0.000	0.025	1,122	0.057	17				
Faucet Aerator	41	3	38	73	6	67	219	0.00	0.01	500	0.3	101	5.34	0.000	0.004	167	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.	21	1	20	21	1	20	11,729	0.00	0.01	337	3.4	547	558.54	0.000	0.008	337	0.168	27				
Lighting	56	56		324	324		2,282	2.0	3.7	19,162	-	-	40.75	0.036	0.066	342						
CapsyLite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	
CapsyLite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	
CapsyLite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	
CapsyLite, unknown	0	0		0	0		0	0.00	0.00	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 (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	
CFL (15W)	13	13		60	60		420	0.26	0.47	2,430	-	-	32.31	0.020	0.036	187						
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)	45	45		228	228		1,610	1.50	2.78	14,331	-	-	35.78	0.033	0.062	318						
CFL (25W)	6	6		36	36		252	0.25	0.47	2,401	-	-	42.00	0.042	0.078	400						
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	-	-	-	-	-	-	-	-	
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	
Refrigerator/Freezer	28	28		35	35		17,411	3.17	2.97	25,788	-	-	621.83	0.113	0.106	921						
Refrigerator Remova	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	
Refrigerator Exchange	24	24		24	24		13,506	2.39	2.24	19,455	-	-	562.75	0.100	0.093	811						
Freezer Remova	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	
Freezer Exchange	11	11		11	11		3,905	0.78	0.73	6,333	-	-	355.02	0.071	0.066	576						
Costs for Measures Without Energy Impacts Installed in 63 Total Households with Spending and/or Energy Impacts:																						
Total							30,748															
Unspecified Insul.							0							0.00								
Duct Insulation							0							0.00								
Duct Sealing							0							0.00								
Damming Materia							0							0.00								
Htg. Sys. Tune & Clean							0							0.00								
Htg. Sys./WH Other							1		128					127.50								
Space Heater Repl							0							0.00								
Air Conditioning Work							0							0.00								
Water Heater Repair							0							0.00								
Refrigerator Coil Clean							0							0.00								
Unspecified Utility Meas							0							0.00								
Asbestos Abatement							0							0.00								
CO Detector							0							0.00								
Smoke Detector							0							0.00								
Fuses							0							0.00								
Htg Sys Safety Check							0							0.00								
Exhaust Ventilator							7		1,025					146.43								
Health/Safety Repair							0							0.00								
Health/Safety Other							0							0.00								
Consumables							0							0.00								
Preservation							0							0.00								
Roof Repairs							0							0.00								
General Repairs							50		10,194					203.68								
Evaluator Labor							0							0.00								
Inspector Labor							0							0.00								
Eval/Insp Labor							0							0.00								
Meter Refrig (no action)	</																					

**Red Rock Area Community Action
Calendar Year 2006
Costs, Fuel, and Demand Impacts for Utility-Funded Measures**

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use			Spending on Materials & Labor (\$)	Estimated First-Year Savings						Average Estimated First Year Measure Cost and Savings Average per Treated Household							
	Total	Electric	Gas	Cooling	Heating			Electricity		Annual kWh	Pk-Day therms	Gas Annual therms	Spending on Materials & Labor (\$)	Electricity		Annual kWh	Pk-Day therms	Gas Annual therms			
								Summer kWh	Winter kWh					Summer kWh	Winter kWh						
OVERALL	56	43	51				156,506	4.7		5.2		28,713	107	10,094	2,794.76	0.111	0.121	668	2,090	198	
Shell & Htg. Sys.	50	24	50	50	50		131,937	1.9	2,204	1.3	2,001	4,205	102	9,343	2638.73	0.039	0.026	40	175	2,047	187
Wall Insul.	24	15	24	15	15		25,963	0.89	1,000	0.57	867	1,867	26	2,399	1063.28	0.059	0.038	58	124	1,097	100
Ceiling Insul	39	22	39	22	22		31,358	1.17	1,340	0.41	628	1,968	21	1,907	804.05	0.053	0.019	29	89	0,535	49
Infl. Reductor	0	0	0	0	0		0	0.27	313	0.21	314	627	0	0	0.00	-	-	-	-	-	-
Found./Crawl. Insul.	9	6	9	6	6		5,030	0.04	45	0.11	163	208	5	450	558.89	0.007	0.018	27	35	0,540	50
Bandjoist Insul.	14	8	14	-	8		1,315	0.00	0	0.02	30	30	1	69	93.96	-	0.002	4	4	0,054	5
Hi-Eff Htg Sys Repl	30	0	30	-	0		68,571	0.00	0	0.00	0	0	50	4,519	2285.69	-	-	-	-	1,651	151
Std-Eff Htg Sys Repl	0	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 Rep	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				Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms			
Water Heating	35	2	33	28	1	27	15,643	0.0	0.0	336	4.2	750	446.94	0.000	0.003	168	0.129	23			
Temp. Reduct.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
WH Wrap	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Pipe Insul.	16	1	15				63	0.00	0.00	98	0.2	61	3.94	0.000	0.000	98	0.012	4			
LF Showerhead	2	0	2	2	0	2	20	0.00	0.00	0	0.2	54	10.00	-	-	-	-	0.087	27		
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.	26	1	25	26	1	25	15,560	0.00	0.01	238	3.9	635	598.46	0.000	0.006	238	0.156	25			
Lighting	41	41		317	317		2,352	1.5	2.7	13,971	-	-	57.37	0.036	0.066	341	-	-			
CapsyLite (42W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CapsyLite (52W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CapsyLite (72W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CapsyLite, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (5W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (7W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (9W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (11W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (14W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (15W)	39	39	156	156			1,176	0.65	1.20	6,164	-	-	30.15	0.017	0.031	158	-	-			
CFL (18W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (20W)	41	41	161	161			1,176	0.62	1.51	7,807	-	-	28.68	0.020	0.037	190	-	-			
CFL (23W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (25W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (30W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Refrigerator/Freezer	12	12		13	13		6,575	1.25	1.17	10,201	-	-	547.90	0.105	0.098	850	-	-			
Refrigerator Remova	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Refrigerator Exchange	11	11	11	11	11		5,857	1.09	1.02	8,877	-	-	532.42	0.099	0.093	807	-	-			
Freezer Remova	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Freezer Exchange	2	2	2	2	2		718	0.16	0.15	1,324	-	-	359.05	0.081	0.076	662	-	-			
Costs for Measures Without Energy Impacts Installed in 58 Total Households with Spending and/or Energy Impacts:							31,501														
Total							31,501														
Unspecified Insul.							0														
Duct Insulation							0														
Duct Sealing							0														
Damming Materia							0														
Htg. Sys. Tune & Clean							0														
Htg. Sys./WH Other							120														
Space Heater Repl							0														
Air Conditioning Work							0														
Water Heater Repair							0														
Refrigerator Coil Clean							0														
Unspecified Utility Meas							0														
Asbestos Abatement							0														
CO Detector							0														
Smoke Detector							0														
Fuses							0														
Htg Sys Safety Check							0														
Exhaust Ventilator							27														
Health/Safety Repair							4,151														
Health/Safety Other							0														
Consumables							0														
Preservation							0														
Roof Repairs							0														
General Repairs							42														
Evaluator Labor							9,715														
Inspector Labor							0														
Eval/Insp Labor							0														
Meter Refrig (no action)							0														
Meter Freezer (no action)							0														
Support							17,365														
Landlord Contr Misc							0														
Landlord Contr Furnace							0														
Landlord Contr DHW							0														
Client Contr Misc							0														
Client Contr Refr							0														
Warehouse							0														
Unspecified							(50)														
Total Reported Materials, Labor, and Support Costs							188,008														
Grand Total of Expenditures							188,008														

**South Central Iowa Community Action Program
Calendar Year 2006
Costs, Fuel, and Demand Impacts for Utility-Funded Measures**

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use			Spending on Materials & Labor (\$)	Estimated First-Year Savings					Average Estimated First Year Measure Cost and Savings Average per Treated Household										
	Total	Electric	Gas	Cooling	Heating			Electricity		Annual kWh	Pk-Day therms	Gas Annual therms	Spending on Materials & Labor (\$)	Electricity		Annual kWh	Pk-Day therms	Gas Annual therms					
								Summer kWh	Winter kWh					Summer kWh	Winter kWh								
OVERALL	19	18	10				43,897	3.5		4.6		24,188	28	2,613	2310.37	0.195	0.255	1,344	2,806	261			
Shell & Htg. Sys.	15	14	10	12	11		34,826	1.8	2,225	2.5	3,745	5,969	27	2,500	2321.70	0.154	0.231	340	426	2749	250		
Wall Insul.	11	11	8	10	8		4,303	0.91	1,095	0.22	345	1,440	6	575	391.21	0.091	0.109	43	131	0.783	72		
Ceiling Insul	13	12	8	10	8		10,615	0.89	1,068	2.21	3,225	4,303	5	482	816.52	0.089	0.107	0.276	404	359	0.666	60	
Infl. Reductor	0	0	0	0	0		0	0.00	0	0.00	0	0	0	0	0.00	-	-	-	-	-	-		
Found./Crawl. Insul.	8	8	6	7	6		2,165	0.05	61	0.10	147	208	2	227	270.61	0.007	9	0.016	25	26	0.412	38	
Bandjoist Insul.	7	6	7	-	6		537	0.00	0	0.01	17	17	0	30	76.66	-	-	0.002	3	3	0.047	4	
Hi-Eff Htg Sys Repl	8	0	8	-	0		17,206	0.00	0	0.00	0	0	13	1,185	2150.76	-	-	-	-	-	1.637	148	
Std-Eff Htg Sys Repl	0	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 Rep	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	Total	Electric	Gas		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms					
Water Heating	12	7	5	30	19	11	1,490	0.0	0.1	4,047	0.6	114	124.17	0.000	0.013	578	0.114	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.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	
LF Showerhead	6	5	1	7	6	1	34	0.00	0.07	3,210	0.1	31	5.73	0.000	0.015	642	0.100	31					
Faucet Aerator	10	6	4	20	12	8	34	0.00	0.01	501	0.0	13	3.43	0.000	0.002	83	0.011	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.	3	1	2	3	1	2	1,421	0.00	0.01	337	0.4	70	473.80	0.000	0.008	337	0.214	35					
Lighting	11	11		117	117		381	0.4	0.8	4,147	-	-	34.68	0.040	0.073	337	-	-					
CapsyLite (42W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
CapsyLite (52W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
CapsyLite (72W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
CapsyLite, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (5W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (7W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (9W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (11W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
CFL (14W)	10	10		101	101		327	0.37	0.69	3,558	-	-	32.74	0.037	0.069	356	-	-					
CFL (15W)	1	1		12	12		38	0.04	0.08	395	-	-	37.68	0.041	0.077	395	-	-					
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-					
CFL (20W)	2	2		2	2		8	0.01	0.02	94	-	-	4.22	0.004	0.008	42	-	-					
CFL (23W)	1	1		1	1		4	0.01	0.01	50	-	-	3.95	0.005	0.010	50	-	-					
CFL (25W)	1	1		1	1		4	0.01	0.01	60	-	-	3.95	0.006	0.012	60	-	-					
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	-	-	-	-	-					
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-	
Refrigerator/Freezer	11	11		13	13		7,200	1.23	1.15	10,024	-	-	654.55	0.112	0.105	911	-	-					
Refrigerator Remova	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
Refrigerator Exchange	10	10		10	10		6,000	1.04	0.97	8,425	-	-	600.00	0.104	0.097	842	-	-					
Freezer Remova	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-	
Freezer Exchange	3	3		3	3		1,200	0.20	0.18	1,600	-	-	400.00	0.066	0.061	533	-	-					
Costs for Measures Without Energy Impacts Installed in 19 Total Households with Spending and/or Energy Impacts:																							
Total							7,948																
Unspecified Insul.							0							0.00									
Duct Insulation							0							0.00									
Duct Sealing							0							0.00									
Damming Materia							0							0.00									
Htg. Sys. Tune & Clean							0							0.00									
Htg. Sys./WH Other							0							0.00									
Space Heater Repl							0							0.00									
Air Conditioning Work							0							0.00									
Water Heater Repair							0							0.00									
Refrigerator Coil Clear							0							0.00									
Unspecified Utility Meas							0							0.00									
Asbestos Abatement							0							0.00									
CO Detector							0							0.00									
Smoke Detector							0							0.00									
Fuses							0							0.00									
Htg Sys Safety Check							0							0.00									
Exhaust Ventilator							8			1,000				125.05									
Health/Safety Repair							0			0				0.00									
Health/Safety Other							0			0				0.00									
Consumables							0			0				0.00									
Preservation							0			0				0.00									
Roof Repairs							0			0				0.00									
General Repairs							0			0				0.00									
Evaluator Labor							0			0				0.00									

**Community Action of South Eastern Iowa
Calendar Year 2006
Costs, Fuel, and Demand Impacts for Utility-Funded Measures**

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use			Spending on Materials & Labor (\$)	Estimated First-Year Savings					Average Estimated First Year Measure Cost and Savings Average per Treated Household									
	Total	Electric	Gas	Cooling	Heating			Electricity		Annual kWh	Pk-Day therms	Annual therms	Spending on Materials & Labor (\$)	Electricity		Annual kWh	Pk-Day therms	Annual therms				
								Summer kWh	Winter kWh					Summer kWh	Winter kWh							
OVERALL	108	99	84				250,110	19.6	34.5	107,013	237	21,438	2315.83	0.200	0.363	1,081	2,821	255				
Shell & Htg. Sys.	107	98	84	97	89		207,283	14.0	16,856	27.9	41,021	57,877	229	20,100	1937.23	0.144	0.314	461	591	2,723	239	
Wall Insul.	88	84	69	83	65		67,973	7.43	8,959	13.20	19,384	28,343	105	9,260	772.42	0.089	0.108	0.203	298	337	1,528	134
Ceiling Insul	102	96	78	95	71		61,453	6.18	7,449	8.09	8,948	16,397	39	3,467	602.48	0.065	0.086	0.126	171		0.506	44
Infl. Reductor	0	0	0	0	0		0	0.00	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Found./Crawl. Insul.	48	45	35	45	32		12,990	0.37	447	8.39	12,336	12,784	24	2,141	270.63	0.008	0.010	0.262	386	284	0.696	61
Bandjoist Insul.	53	46	52	-	46		6,005	0.00	0.24	353	353	3	297	113.31	-	-	0.005	8	8	0.065	6	
Hi-Eff Htg Sys Repl	29	0	29	-	0		58,862	0.00	0.00	0	0	56	4,935	2028.72	-	-	-	-	-	-	1.936	170
Std-Eff Htg Sys Repl	0	0	0	-	0		0	0.00	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0		0	0.00	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Heat Pump Rep	0	0	0	-	0		0	0.00	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0		0	0.00	0.00	0	0	0	0	0.00	-	-	-	-	-	-	-	-
	Total	Electric	Gas	Total	Electric	Gas		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms				
Water Heating	37	5	32	37	5	32	21,437	0.0	0.0	1,683	8.2	1,338	579.38	0.000	0.008	0.000	337	0.256	42			
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.	37	5	32	37	5	32	21,437	0.00	0.04	1,683	8.2	1,338	579.38	0.000	0.008	0.000	337	0.256	42			
Lighting	63	63		332	332		717	1.4	2.6	13,258	-	-	11.38	0.022	0.041	210	-	-	-	-	-	-
CapsyLite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-
CapsyLite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-
CapsyLite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-
CapsyLite, unknown	0	0		0	0		0	0.00	0.00	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)	19	19		71	71		182	0.20	0.36	1,870	-	-	8.56	0.010	0.019	98	-	-	-	-	-	-
CFL (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-
CFL (15W)	52	52		241	241		467	1.05	1.94	10,007	-	-	8.97	0.020	0.037	192	-	-	-	-	-	-
CFL (18W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-
CFL (20W)	2	2		4	4		16	0.02	0.04	207	-	-	8.12	0.011	0.020	104	-	-	-	-	-	-
CFL (23W)	8	8		13	13		35	0.09	0.17	871	-	-	4.32	0.011	0.021	109	-	-	-	-	-	-
CFL (25W)	1	1		1	1		3	0.01	0.01	63	-	-	2.66	0.007	0.012	63	-	-	-	-	-	-
CFL (30W)	1	1		2	2		15	0.03	0.05	240	-	-	15.18	0.025	0.047	240	-	-	-	-	-	-
CFL, unknown	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-	-	-	-
Refrigerator/Freezer	39	39		41	41		20,672	4.21	3.93	34,195	-	-	530.06	0.108	0.101	877	-	-	-	-	-	-
Refrigerator Remova	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-
Refrigerator Exchange	35	35		35	35		18,358	3.74	3.50	30,421	-	-	524.53	0.107	0.100	869	-	-	-	-	-	-
Freezer Remova	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-	-	-	-	-
Freezer Exchange	6	6		6	6		2,314	0.46	0.43	3,774	-	-	385.67	0.077	0.072	629	-	-	-	-	-	-
Costs for Measures Without Energy Impacts Installed in 108 Total Households with Spending and/or Energy Impacts:																						
Total							44,095						34.28									
Unspecified Insul.	1						34						34.28									
Duct Insulation	0						0						0.00									
Duct Sealing	1						17						16.95									
Damming Materia	0						0						0.00									
Htg. Sys. Tune & Clean	0						0						0.00									
Htg. Sys./WH Other	0						0						0.00									
Space Heater Repl	0						0						0.00									
Air Conditioning Work	0						0						0.00									
Water Heater Repair	0						0						0.00									
Refrigerator Coil Clear	0						0						0.00									
Unspecified Utility Meas	0						0						0.00									
Asbestos Abatement	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									
Exhaust Ventilator	0						0						0.00									
Health/Safety Repair	0						0						0.00									
Health/Safety Other	0						0						0.00									
Consumables	0						0															

**Southern Iowa Economic Development Authority
Calendar Year 2006
Costs, Fuel, and Demand Impacts for Utility-Funded Measures**

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use			Spending on Materials & Labor (\$)	Estimated First-Year Savings						Average Estimated First Year Measure Cost and Savings Average per Treated Household							
	Total	Electric	Gas	Cooling	Heating			Electricity		Annual kWh	Pk-Day therms	Annual therms	Spending on Materials & Labor (\$)	Electricity		Annual kWh	Pk-Day therms	Annual therms			
								Summer kWh	Winter kWh					Summer kWh	Winter kWh						
OVERALL	162	162	87				268,982	25.7	33.3	170,554	125	11,793	1,660.38	0.164	0.209	1,053	1,442	136			
Shell & Htg. Sys.	135	130	84	102	93		194,681	12.9	15,546	17.4	25,982	41,528	122	10,790	1,442.08	0.126	0.187	279	319	1,447	128
Wall Insul.	59	59	35	46	30		23,771	4.08	4,923	5.57	8,308	13,231	28	2,514	402.89	0.089	0.186	277	224	0.807	72
Ceiling Insul	113	111	65	94	55		54,953	8.10	9,770	8.27	12,365	22,135	26	2,347	485.31	0.086	0.150	225	199	0.407	36
Infl. Reductor	0	0	0	0	0		0	0.00	0	0.00	0	0	0	0.00	-	-	-	-	-	-	-
Found./Crawl. Insul.	63	62	42	50	35		16,297	0.71	853	2.97	4,481	5,333	18	1,593	258.69	0.014	0.085	128	86	0.427	38
Bandjoist Insul.	66	55	62	-	55		6,536	0.00	0	0.55	828	828	3	302	99.03	-	0.010	15	15	0.055	5
Hi-Eff Htg Sys Repl	38	0	38	-	0		93,124	0.00	0	0.00	0	0	46	4,034	2,450.63	-	-	-	-	1.198	106
Sub-Eff Htg Sys Repl	0	0	0	-	0		0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0		0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-
Heat Pump Repl	0	0	0	-	0		0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0		0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-
	Total	Electric	Gas	Number of Measures by Fuel Type				Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms			
Water Heating	106	41	65	133	51	82	5,247	0.0	0.4	19,471	3.8	1,003	49.50	0.000	0.009	475	0.059	15			
Temp. Reduct.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
WH Wrap	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Pipe Insul.	94	39	55				482	0.00	0.01	3,836	0.7	233	5.13	0.000	0.000	98	0.012	4			
LF Showerhead	55	24	31	57	25	32	435	0.00	0.32	13,900	1.5	468	7.91	0.000	0.013	579	0.049	15			
Faucet Aerator	48	17	31	69	26	43	130	0.00	0.04	1,735	0.2	71	2.72	0.000	0.002	102	0.007	2			
Sub-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.	7	0	7	7	0	7	4,200	0.00	0.00	0	1.4	231	600.00	-	-	-	0.203	33			
Lighting	128	128		740	740		4,785	4.0	7.3	37,751	-	-	37.38	0.031	0.057	295	-	-			
CapsyLite (42W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CapsyLite (52W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CapsyLite (72W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CapsyLite, unknown	0	0		0	0		0	0.00	0.00	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 (14W)	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (15W)	71	71		430	430		2,696	1.78	3.29	16,974	-	-	37.97	0.025	0.046	239	-	-			
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)	69	69		310	310		2,089	2.18	4.03	20,778	-	-	30.28	0.032	0.058	301	-	-			
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	-	-	-	-	-			
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Refrigerator/Freezer	95	95		120	120		64,269	8.83	8.26	71,804	-	-	676.52	0.093	0.087	756	-	-			
Refrigerator Remova	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Refrigerator Exchange	83	83		83	83		50,108	6.51	6.09	52,950	-	-	603.71	0.078	0.073	638	-	-			
Freezer Remova	0	0		0	0		0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Freezer Exchange	37	37		37	37		14,161	2.32	2.17	18,854	-	-	382.73	0.063	0.059	510	-	-			
Costs for Measures Without Energy Impacts Installed in 163 Total Households with Spending and/or Energy Impacts:																					
Total							74,647														
Unspecified Insul.							0							0.00							
Duct Insulation							0							0.00							
Duct Sealing							0							0.00							
Damming Materia							0							0.00							
Htg. Sys. Tune & Clean							0							0.00							
Htg. Sys./WH Other							0							0.00							
Space Heater Repl							0							0.00							
Air Conditioning Work							0							0.00							
Water Heater Repair							0							0.00							
Refrigerator Coil Clear							0							0.00							
Unspecified Utility Meas							0							0.00							
Asbestos Abatement							0							0.00							
CO Detector							0							0.00							
Smoke Detector							0							0.00							
Fuses							0							0.00							
Htg Sys Safety Check							0							0.00							
Exhaust Ventilator							48							139.10							
Health/Safety Repair							0							0.00							
Health/Safety Other							0							0.00							
Consumables							0							0.00							
Preservation							0							0.00							
Roof Repairs							0							0.00							
General Repairs							152							215.37							
Evaluator Labor							0							0.00							
Inspector Labor							0							0.00							
Eval/Insp Labor							0							0.00							
Meter Refrig (no action)							0							0.00							
Meter Freezer (no action)							0							0.00							
Support							159							35,234							
Landlord Contr Misc							0							0.00							
Landlord Contr Furnace							0							0.00							
Landlord Contr DHW							0							0.00							
Client Contr Misc							0							0.00							
Client Contr Refr							0							0.00							
Warehouse							0							0.00							
Unspecified							0							0.00							
Total Reported Materials, Labor, and Support Costs							343,629														
Grand Total of Expenditures							343,629														

**Upper Des Moines Opportunity
Calendar Year 2006
Costs, Fuel, and Demand Impacts for Utility-Funded Measures**

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use		Spending on Materials & Labor (\$)	Estimated First-Year Savings					Average Estimated First Year Measure Cost and Savings Average per Treated Household								
	Total	Electric	Gas	Cooling	Heating		Electricity		Annual kWh	Pk-Day therms	Gas Annual therms	Spending on Materials & Labor (\$)	Electricity		Annual kWh	Pk-Day therms	Gas Annual therms			
							Summer kWh	Winter kWh					Summer kWh	Winter kWh						
OVERALL	76	56	64			246,057	10.7		8.0	52,955	125	12,631	3237.60	0.191	0.143	946	1,946	197		
Shell & Htg. Sys.	74	52	64	44	64	207,213	5.9	7,141	1.8	2,876	10,017	120	11,844	2800.18	0.135	0.027	45	193	1,879	
Wall Insul.	54	38	48	31	29	59,717	2.64	3,189	1.16	1,900	5,089	50	4,892	1105.87	0.085	0.103	0.040	66	134	1,036
Ceiling Insul	69	51	59	43	35	58,872	3.31	3,992	0.50	827	4,819	23	2,303	853.22	0.077	0.014	24	94	0.397	
Infil. Reductor	0	0	0	0	0	0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	
Found./Crawl. Insul.	17	12	14	10	8	3,799	-0.03	(40)	0.07	118	78	3	317	223.46	-0.003	(4)	0.009	15	6	0.225
Bandjoist Insul.	21	9	21	-	9	1,775	0.00	0	0.02	32	32	1	113	84.51	-	0.002	4	4	0.054	
Hi-Eff Htg Sys Repl	36	0	36	-	0	83,050	0.00	0	0.00	0	0	43	4,219	2306.95	-	-	-	-	1,189	
Std-Eff Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	
Electric Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	
Heat Pump Rep	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	
Other Htg Sys Repl	0	0	0	-	0	0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	
	Total	Electric	Gas	Total	Electric	Gas	Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms			
Water Heating	45	4	41	83	9	74	18,898	0.0	0.0	1,521	4.3	787	419.96	0.000	0.007	380	0.105	19		
Temp. Reduct.	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0.00	-	-	-	-	-		
WH Wrap	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0.00	-	-	-	-	-		
Pipe Insul.	33	4	29	0	0	0	192	0.00	0.00	393	0.3	106	5.82	0.000	0.000	98	0.010	4		
LF Showerhead	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0.00	-	-	-	-	-		
Faucet Aerator	30	4	26	52	6	46	130	0.00	0.00	117	0.2	57	4.33	0.000	0.001	29	0.007	2		
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0	0.00	-	-	-	-	-		
Hi-Eff Wtr Htr Repl.	31	3	28	31	3	28	18,576	0.00	0.02	1,010	3.8	624	599.24	0.000	0.008	337	0.137	22		
Lighting	53	53		292	292		2,044	1.9	3.5	18,172	-	-	38.57	0.036	0.067	343	0.105	19		
CapsyLite (42W)	0	0	0	0	0	0	0.00	0.00	0	0	-	-	0.00	-	-	-	-	-		
CapsyLite (52W)	0	0	0	0	0	0	0.00	0.00	0	0	-	-	0.00	-	-	-	-	-		
CapsyLite (72W)	0	0	0	0	0	0	0.00	0.00	0	0	-	-	0.00	-	-	-	-	-		
CapsyLite, unknown	0	0	0	0	0	0	0.00	0.00	0	0	-	-	0.00	-	-	-	-	-		
CFL (5W)	0	0	0	0	0	0	0.00	0.00	0	0	-	-	0.00	-	-	-	-	-		
CFL (7W)	0	0	0	0	0	0	0.00	0.00	0	0	-	-	0.00	-	-	-	-	-		
CFL (9W)	0	0	0	0	0	0	0.00	0.00	0	0	-	-	0.00	-	-	-	-	-		
CFL (11W)	0	0	0	0	0	0	0.00	0.00	0	0	-	-	0.00	-	-	-	-	-		
CFL (14W)	0	0	0	0	0	0	0.00	0.00	0	0	-	-	0.00	-	-	-	-	-		
CFL (15W)	24	24	118	118	118	826	0.56	1.03	5,309	-	-	-	34.42	0.023	0.043	221	-	-		
CFL (18W)	0	0	0	0	0	0	0.00	0.00	0	0	-	-	0.00	-	-	-	-	-		
CFL (20W)	0	0	0	0	0	0	0.00	0.00	0	0	-	-	0.00	-	-	-	-	-		
CFL (23W)	4	4	24	24	24	168	0.17	0.31	1,607	-	-	-	42.00	0.042	0.078	402	-	-		
CFL (25W)	25	25	150	150	150	1,050	1.18	2.18	11,255	-	-	-	42.00	0.047	0.087	450	-	-		
CFL (30W)	0	0	0	0	0	0	0.00	0.00	0	0	-	-	0.00	-	-	-	-	-		
CFL, unknown	0	0	0	0	0	0	0.00	0.00	0	0	-	-	0.00	-	-	-	-	-		
Waterbed Mattress Pad	0	0	0	0	0	0	0.00	0.00	0.00	0.0	0.0	0	0.00	-	-	-	-	-		
King	0	0	0	0	0	0	0.00	0.00	0	0	0	0	0.00	-	-	-	-	-		
Queen	0	0	0	0	0	0	0.00	0.00	0	0	0	0	0.00	-	-	-	-	-		
Double	0	0	0	0	0	0	0.00	0.00	0	0	0	0	0.00	-	-	-	-	-		
Single	0	0	0	0	0	0	0.00	0.00	0	0	0	0	0.00	-	-	-	-	-		
Unknown	0	0	0	0	0	0	0.00	0.00	0	0	0	0	0.00	-	-	-	-	-		
Refrigerator/Freezer	24	24		31	31		17,902	2.86	2.67	23,246	-	-	745.90	0.119	0.111	969	0.105	19		
Refrigerator Remova	0	0	0	0	0	0	0.00	0.00	0	0	-	-	0.00	-	-	-	-	-		
Refrigerator Exchange	22	22	22	22	22	14,929	2.16	2.02	17,531	-	-	-	678.60	0.098	0.092	797	-	-		
Freezer Remova	0	0	0	0	0	0	0.00	0.00	0	0	-	-	0.00	-	-	-	-	-		
Freezer Exchange	9	9	9	9	9	2,972	0.70	0.66	5,715	-	-	-	330.27	0.078	0.073	635	-	-		
Costs for Measures Without Energy Impacts Installed in 76 Total Households with Spending and/or Energy Impacts:							31,365													
Total																				
Unspecified Insul.	0						0						0.00							
Duct Insulation	0						0						0.00							
Duct Sealing	0						0						0.00							
Damming Materia	0						0						0.00							
Htg. Sys. Tune & Clean	0						0						0.00							
Htg. Sys./WH Other	0						0						0.00							
Space Heater Repl	0						0						0.00							
Air Conditioning Work	0						0						0.00							
Water Heater Repair	0						0						0.00							
Refrigerator Coil Clear	0						0						0.00							
Unspecified Utility Meas	0						0						0.00							
Asbestos Abatement	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							
Exhaust Ventilator	26						3,850						148.09							
Health/Safety Repair	0						0						0.00							
Health/Safety Other	0						0						0.00							
Consumables	0						0						0.00							
Preservation	0						0						0.00							
Roof Repairs	0						0						0.00							
General Repairs	0						0						0.00							
Evaluator Labor	0						0						0.00							
Inspector Labor	0						0						0.00							
Eval/Insp Labor	0						0						0.00							
Meter Refrig (no action)	0						0						0.00							
Meter Freezer (no action)	0						0						0.00							
Support	72						27,455						381.31							
Landlord Contr Misc	0						0						0.00							

West Central Development Corporation
Calendar Year 2006
Costs, Fuel, and Demand Impacts for Utility-Funded Measures

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use			Spending on Materials & Labor (\$)	Estimated First-Year Savings						Average Estimated First Year Measure Cost and Savings Average per Treated Household								
	Total	Electric	Gas	Cooling	Heating			Summer		Electricity		Annual	Gas		Spending on Materials & Labor (\$)	Summer		Electricity		Annual	Gas	
								kWh	kWh	kWh	kWh		kWh	Pk-Day		Annua	kWh	kWh	kWh		kWh	Pk-Day
OVERALL	93	75	78				216,615	12.1	8.9	53,633	139	13,619	2329.20	0.162	0.131	715	1,778	175				
Shell & Htg. Sys.	88	64	75	61	77		197,612	8.2	9.884	3.7	5,809	15,693	135	12,412	0.134	0.049	75	245	1,799	165		
Wall Insul.	63	47	56	45	16		43,733	3.23	3,901	0.53	804	4,705	48	4,367	0.072	0.033	50	100	0.848	78		
Ceiling Insul	84	63	71	60	20		59,240	5.09	6,134	3.15	4,891	11,026	26	2,414	0.085	0.157	245	175	0.369	34		
Infl. Reductor	0	0	0	0	0		0	0.00	0.00	0.00	0	0	0	0.00	-	-	-	-	-	-		
Found./Crawl. Insul.	40	27	34	25	9		7,799	-0.13	(151)	0.07	109	(42)	7	666	194.97	-0.005	(6)	0.008	12	(2)	0.215	20
Bandjoist Insul.	15	2	15	-	2		1,709	0.00	0.00	0.00	5	5	1	78	113.91	-	0.002	2	2	0.056	5	
Hi-Eff Htg Sys Repl	37	0	37	-	0		85,131	0.00	0.00	0.00	0	0	53	4,887	2300.84	-	-	-	-	-	1.434	132
Std-Eff Htg Sys Repl	0	0	0	-	0		0	0.00	0.00	0.00	0	0	0	0	-	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0		0	0.00	0.00	0.00	0	0	0	0	-	-	-	-	-	-	-	-
Heat Pump Rep	0	0	0	-	0		0	0.00	0.00	0.00	0	0	0	0	-	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0		0	0.00	0.00	0.00	0	0	0	0	-	-	-	-	-	-	-	-
	Total	Electric	Gas	Total	Electric	Gas		Summer	Winter	Annua	Pk-Day	Annua		Summer	Winter	Annua	Pk-Day	Annua				
Water Heating	79	6	73	144	13	131	1,081	0.0	0.1	3,887	3.8	1,206	13.68	0.000	0.013	648	0.052	17				
Temp. Reduct.	5	0	5	0	0	0	0	0.00	0.00	0	0.2	81	0.00	-	-	-	-	0.047	16			
WH Wrap	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-	-			
Pipe Insul.	66	4	62	361	2	34	361	0.00	0.00	393	0.8	282	5.77	0.000	0.000	98	0.013	5				
LF Showerhead	36	2	34	36	2	34	370	0.00	0.05	2,243	2.2	672	10.28	0.000	0.025	1,122	0.064	20				
Faucet Aerator	68	6	62	108	11	97	330	0.00	0.03	1,251	0.6	171	4.85	0.000	0.005	208	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.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
Lighting	62	62	348	348	0	0	2,436	1.6	2.9	14,763	-	-	39.29	0.025	0.046	238	-	-				
CapsyLite (42W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CapsyLite (52W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CapsyLite (72W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CapsyLite, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CFL (5W)	1	1	8	8	8	8	56	0.01	0.03	140	-	-	56.00	0.015	0.027	140	-	-				
CFL (7W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CFL (9W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CFL (11W)	3	3	24	24	24	24	168	0.06	0.12	609	-	-	56.00	0.021	0.039	203	-	-				
CFL (14W)	46	46	228	228	228	228	1,596	0.97	1.79	9,252	-	-	34.70	0.021	0.039	201	-	-				
CFL (15W)	1	1	4	4	4	4	28	0.02	0.03	180	-	-	28.00	0.019	0.035	180	-	-				
CFL (18W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CFL (20W)	20	20	52	52	52	52	364	0.27	0.50	2,555	-	-	18.25	0.013	0.025	128	-	-				
CFL (23W)	19	19	32	32	32	32	224	0.21	0.39	2,026	-	-	11.79	0.011	0.021	107	-	-				
CFL (25W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CFL (30W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
CFL, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-				
Refrigerator/Freezer	23	23	30	30	0	0	15,487	2.37	2.22	19,290	-	-	673.34	0.103	0.096	839	-	-				
Refrigerator Remova	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
Refrigerator Exchange	16	16	16	16	16	16	9,908	1.42	1.33	11,549	-	-	619.25	0.089	0.083	722	-	-				
Freezer Remova	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-				
Freezer Exchange	14	14	14	14	14	14	5,579	0.95	0.89	7,741	-	-	398.49	0.068	0.064	553	-	-				
Costs for Measures Without Energy Impacts Installed in 93 Total Households with Spending and/or Energy Impacts:																						
Total							55,405															
Unspecified Insul.							0							0.00								
Duct Insulation							0							0.00								
Duct Sealing							0							0.00								
Damming Materia							0							0.00								
Htg. Sys. Tune & Clean							0							0.00								
Htg. Sys./WH Other							0							0.00								
Space Heater Repl							0							0.00								
Air Conditioning Work							0							0.00								
Water Heater Repair							0							0.00								
Refrigerator Coil Clean							0							0.00								
Unspecified Utility Meas							0							0.00								
Asbestos Abatement							0							0.00								
CO Detector							0							0.00								
Smoke Detector							0							0.00								
Fuses							0							0.00								
Htg Sys Safety Check							0							0.00								
Exhaust Ventilator							47							143.81								
Health/Safety Repair							0							0.00								
Health/Safety Other							0							0.00								
Consumables							0							0.00								
Preservation							0							0.00								
Roof Repairs							0							0.00								
General Repairs							88							227.53								
Evaluator Labor							0							0.00								
Inspector Labor							0							0.00								
Eval/Insp Labor							0							0.00								
Meter Refrig (no action)							0							0.00								
Meter Freezer (no action)							0							0.00								
Support							93							28,823								
Landlord Contr Misc							0							0.00								
Landlord Contr Furnace							0							0.00								
Landlord Contr DHW							0							0.00								
Client Contr Misc							0							0.00								
Client Contr Refr							0							0.00								
Warehouse							0															

**Polk County Planning and Development
Calendar Year 2006
Costs, Fuel, and Demand Impacts for Utility-Funded Measures**

Measure	Number of Households with Impacts			Count of Households with Electricity Impacts by End-Use			Spending on Materials & Labor (\$)	Estimated First-Year Savings					Average Estimated First Year Measure Cost and Savings Average per Treated Household								
	Total	Electric	Gas	Cooling	Heating			Electricity		Annual kWh	Pk-Day therms	Annual therms	Spending on Materials & Labor (\$)	Electricity		Annual kWh	Pk-Day therms	Annual therms			
								Summer kWh	Winter kWh					Summer kWh	Winter kWh						
OVERALL	99	98	96				254,485	12.8	9.5	50,603	133	21,654	2570.55	0.134	0.096	516	1,381	226			
Shell & Htg. Sys.	97	96	95	86	95		246,565	9.7	11,725	3.9	5,833	17,558	133	20,456	2541.90	0.113	0.041	61	183	1,396	215
Wall Insul.	75	75	73	67	73		75,300	3.15	3,799	2.65	4,012	7,811	0	8,474	1004.00	0.047	0.036	55	104	0.000	116
Ceiling Insul	90	90	87	81	87		43,189	6.48	7,813	0.96	1,454	9,266	35	3,171	479.88	0.080	0.011	17	103	0.404	36
Infl. Reductor	0	0	0	0	0		0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-
Found./Crawl. Insul.	27	27	26	20	26		8,195	0.09	113	0.19	285	398	7	601	303.52	0.005	0.007	11	15	0.252	23
Bandjoist Insul.	35	35	35	-	35		2,447	0.00	0	0.05	83	83	2	173	69.90	-	0.002	2	2	0.055	5
Hi-Eff Htg Sys Repl	55	0	55	-	0		117,434	0.00	0	0.00	0	0	89	8,037	2,135.17	-	-	-	-	1.618	146
Std-Eff Htg Sys Repl	0	0	0	-	0		0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-
Electric Htg Sys Repl	0	0	0	-	0		0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-
Heat Pump Rep	0	0	0	-	0		0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-
Other Htg Sys Repl	0	0	0	-	0		0	0.00	0	0.00	0	0	0	0	-	-	-	-	-	-	-
	Total	Electric	Gas	Number of Measures by Fuel Type				Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms		Summer kWh	Winter kWh	Annual kWh	Pk-Day therms	Annual therms			
Water Heating	58	3	55	122	5	117	2,892	0.0	0.0	3,613	0.0	1,198	49.86	0.000	0.000	1,204	0.000	22			
Temp. Reduct.	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
WH Wrap	0	0	0				0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Pipe Insul.	55	3	52				263	0.00	0.00	295	0.0	212	4.78	0.000	0.000	98	0.000	4			
LF Showerhead	37	1	36	38	1	37	315	0.00	0.00	2,835	0.0	744	8.51	0.000	0.000	2,835	0.000	21			
Faucet Aerator	46	2	44	81	4	77	264	0.00	0.00	483	0.0	130	5.74	0.000	0.000	242	0.000	3			
Std-Eff Wtr Htr Repl.	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	-	-	-	-	-	-			
Hi-Eff Wtr Htr Repl.	3	0	3	3	0	3	2,050	0.00	0.00	0	0.0	112	683.33	-	-	-	-	0.000	37		
Lighting	89	89		517	517		4,039	2.9	5.4	28,041	-	-	45.38	0.033	0.061	315	-	-			
Capsyrite (42W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Capsyrite (52W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Capsyrite (72W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Capsyrite, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (5W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (7W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (9W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (11W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (14W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (15W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (18W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (20W)	89	89		517	517		4,039	2.94	5.44	28,041	-	-	45.38	0.033	0.061	315	-	-			
CFL (23W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (25W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL (30W)	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
CFL, unknown	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Waterbed Mattress Pad	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
King	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Queen	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Double	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Single	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Unknown	0	0	0	0	0	0	0	0.00	0.00	0	0.0	0	0.00	-	-	-	-	-			
Refrigerator/Freezer	2	2		2	2		989	0.17	0.16	1,391	-	-	494.55	0.086	0.080	695	-	-			
Refrigerator Remova	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Refrigerator Exchange	2	2		2	2		989	0.17	0.16	1,391	-	-	494.55	0.086	0.080	695	-	-			
Freezer Remova	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Freezer Exchange	0	0	0	0	0	0	0	0.00	0.00	0	-	-	0.00	-	-	-	-	-			
Costs for Measures Without Energy Impacts Installed in 99 Total Households with Spending and/or Energy Impacts:	Total							45,922													
Unspecified Insul.	0						0						0.00								
Duct Insulation	0						0						0.00								
Duct Sealing	0						0						0.00								
Damming Materia	0						0						0.00								
Htg. Sys. Tune & Clean	0						0						0.00								
Htg. Sys./WH Other	0						480						0.00								
Space Heater Repl	0						0						0.00								
Air Conditioning Work	0						0						0.00								
Water Heater Repair	0						5						0.00								
Refrigerator Coil Clear	0						0						0.00								
Unspecified Utility Meas	0						0						0.00								
Asbestos Abatement	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								
Exhaust Ventilator	0						5,594						0.00								
Health/Safety Repair	0						0						0.00								
Health/Safety Other	0						0						0.00								
Consumables	0						0						0.00								
Preservation	0						0						0.00								
Roof Repairs	0						0						0.00								
General Repairs	0						256						0.00								
Evaluator Labor	0						0						0.00								
Inspector Labor	0						0						0.00								
Eval/Insp Labor	0						0						0.00								
Meter Refrig (no action)	0						0						0.00								
Meter Freezer (no action)	0						0						0.00								
Support	0						39,587						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 Misc																					

Appendix A -- Client Characteristics

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Household characteristics										
Quarterly gross income	\$2,759	\$2,987	\$2,834	\$3,285	\$3,488	\$3,282	\$3,363	\$3,649	\$3,618	\$3,727
Average members	2.7	2.7	2.5	2.5	2.6	2.6	2.6	2.8	2.8	2.8
Percentage of households with:										
Elderly	37.2	37.9	40.7	42.0	42.4	42.5	38.9	36.3	35.2	32.3
Handicapped	37.1	36.8	41.6	44.0	49.6	47.6	47.3	42.0	42.7	42.5
Young children	19.3	20.1	17.8	18.0	18.0	NA	15.8	9.7	18.3	15.6
Housing type (%)										
Single family home	90.3	88.5	85.0	92.0	91.3	92.4	92.9	91.2	91.0	90.3
Mobile home	5.6	6.9	8.4	7.0	7.4	7.4	5.8	8.1	7.2	7.7
Duplex	1.6	1.2	2.6	0.0	1.3	0.0	0.4	0.7	0.9	2.1
Three+ unit apartment	0.8	0.9	1.3	0.0	0.0	0.1	0.9	0.2	0.8	0.0
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	1.7	2.6	2.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Heating system type (%)										
Natural gas	82.4	80.7	81.1	81.0	85.2	84.5	85.5	84.0	84.4	84.0
Propane	11.8	13.6	11.9	14.0	11.2	11.8	11.4	12.2	10.7	11.7
Fuel oil	3.8	2.1	2.1	3.0	1.9	1.4	1.4	1.9	1.4	1.0
Electricity	0.0	0.0	0.0	0.0	1.5	2.2	85.5	1.9	3.4	3.3
Other	2.0	3.5	4.8	2.0	0.1	0.0	0.0	0.2	0.0	0.0
Air conditioning type (%)										
Central	30.5	32.9	31.6	39.0	40.0	41.6	44.1	48.4	47.8	49.8
Room	41.3	43.9	45.7	46.0	46.4	44.5	39.4	42.4	39.8	37.4
None	28.3	23.2	22.7	16.0	13.6	13.9	16.5	9.4	12.4	12.8
Blower door readings (average cfm50)										
Pre	3,487	3,403	3,356	3,191	3,531	3,555	3,642	3,733	3,723	3,856
Post	2,337	2,261	2,377	2,443	2,302	2,341	2,348	2,355	2,310	2,389

