Customer Energy Planning Study 2006

Between March and August of 2006 Gainesville Regional Utilities (GRU) conducted a survey of its residential electric customer population. The survey collected reliable customer statistics on dwelling characteristics, appliance saturations, and energy and water consumption patterns.

This survey is an integral component of GRU's load research efforts. Statistics obtained from customer surveys facilitate the management of decision-making process. The findings contribute to system load and energy forecasting, rate design, supplementary load research design, conservation program planning, customer information program development and integrated resource planning. Statistics on appliance saturation and usage patterns are essential for end-use forecasting and the development of hourly load forecasts, useful in generation simulation and facility requirements analysis.

This document is divided into seven sections as follows:

I. Sampling Methodology and Lessons Learned
II. Survey Results Weighted by Dwelling Type
III. Sample Comparison Against Population
    a. Census 2000
    b. Monthly Energy and Water Usage
    c. Geographical Distribution
IV. Seasonal Usage Analysis
V. Raw Survey Results
VI. Sample Errors
VII. Survey Instrument

Section I: Sampling Methodology And Lessons Learned

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A. Sample Selection

The population consists of residential electric customers active as of December 31, 2005 who had been active customers for at least one full year. From this population, a sample of 1,200 households was selected randomly without replacement.

Lesson learned:

By drawing one random sample from the total population it can be difficult to draw conclusions about small subgroups of the population even with a high response rate. This problem can be avoided in future surveys by identifying population subgroups for which information is required and stratifying the survey in order to sample a significant portion of each subgroup. Following this future surveys should at least be stratified by dwelling type.

B. Survey Design

An essential objective of the survey design was to assure the collection of statistically valid data by minimizing non-response bias. This was accomplished by offering a $5 credit on customers bills for completing the survey and utilizing a reasonably comprehensive approach in following up on customers who did not respond initially to the survey questionnaire.

The survey instrument was an eight page booklet (8 ½" x 11") mailed to customers in an 9" x 12" envelope. The envelope also included a 6" x 9" postage paid, return addressed envelope for returning the completed questionnaires. The survey pages consisted of the following:

Page 1: Letter from Mayor
Page 2: Instructions for completing and returning survey
Page 3-6: Survey questions covering dwelling characteristics, household demographics, base use appliance saturations and space conditioning equipment and use patterns
Page 7: Space for additional comments
Page 8: Blank
(See Section VII for full survey instrument)

The design of the questionnaire utilized input from a variety of utility personnel to assure that the questions were concise, understandable and necessary. Before surveys were mailed to customers the survey was administered to a class of approximately twenty five students at the University of Florida to test for readability and understanding.

The questions were constructed to prompt responses from fixed alternatives rather than allowing open-ended replies. Though fixed alternatives can be a source of bias, the potential for bias is effectively eliminated by deliberate efforts to insure that each respondent can make a correct choice from the fixed alternatives. In addition to the ease of data processing and improved statistical accuracy available, fixed alternatives are also less burdensome for the respondent.

C. Data Collection

The data collection effort began with an initial mail out of 1,200 questionnaires in March 2006. Questionnaires were mailed to customer mailing addresses obtained from the utility billing system. Returned questionnaires were screened for respondent omissions and obvious discrepancies. The initial mail out resulted in 394 completed questionnaires.

In May 2006 a questionnaire was sent a second time to non-respondents. The second mail out resulted in 112 completed questionnaires, for a combined response level of approximately 42%. Since a 42% response rate achieved a desirable level of statistical accuracy an additional planned follow-up utilizing telephone interviews was deemed unnecessary.

Table 1
Responses and Contacts

	Frequency	Response Rate
First Mailing Size	1,200	
Second Mailing Size	806	
First Mailing Response	394	32.8%
Second Mailing Response	112	13.8%

Lesson learned:

The second mailing's response rate was less than half of the first mailing's response rate. While a lower response rate to the second mailing was expected the degree of drop off was higher than anticipated. In order to increase the response to the second mailing future surveys should consider implementing one or more of the following for the second mailing:

Alter survey cover letter for second mailing; Increase/Change incentive offered for second mailing; Precede/follow-up second mailing with automated phone calls from IVR system requesting participation

D. Response Highlights

The following table shows the breakdown of survey responses by dwelling type. As can be seen from the table below, the breakdown of dwelling types for returned questionnaires is not the same as the population. To obtain results from the sample which accurately represent all residential customers, it was necessary to reduce the response bias caused by an over representation of customers in unattached dwellings and an under representation of customers in attached dwellings and mobile homes. This was accomplished by weighting the responses by service area dwelling proportions for analyses involving all residential customers. These results can be seen in sections II and IV. Service area dwelling proportions were obtained from GRU billing data.

Table 2
Dwelling Type

	Survey Response	2000 Census (Alachua County)	Billing Data (Service Area)
Unattached Dwellings	71.5%	48.6%	53.7%
Attached Dwellings	25.3%	39.7%	41.8%
Mobile Homes	3.2%	11.5%	4.5%

The following table shows all questions which more than 25 respondents (5%) chose not to respond to. These questions may have been confusing, difficult to answer or may have addressed sensitive information.

Table 3
Questions Respondents Chose Not to Respond To

Question	#	%
Your Home: 4 – Square feet of living space	45	9%
Your AC: 3 – Average thermostat setting	44	9%
Your Heating: 4 – Average thermostat setting	44	9%
Water Heating: 2 – Age of water heater	39	8%
Home Appliances: 3 – Type of internet service	52	10%
Demographic: 5 – Family income	35	7%

Lesson learned:

Questions in Table 3 should be evaluated before inclusion in future surveys. Rewording the questions to include more detailed instructions or rephrasing the way questions are asked may increase response rate to the questions.

E. Seasonal Usage Analysis

Seasonal usage analysis involves the dissociation of annual energy into base, heating and cooling use components. Seasonal usages were calculated for each survey respondent and then used to compare usage diversity based on housing characteristics, appliance saturations, temperature settings and demographic information.

These usage patterns when combined with customer load research will be useful for electric system planning, demand side management planning, and demand impacts and program marketing potentials for energy efficiency and load control programs.

Seasonal electric and natural usages were calculated using the following methodology. Average daily usages were calculated for each billing cycle and multiplied by an average month length to produce generic monthly consumptions. The minimum monthly usage of the calendar year was used to represent the base monthly usage. Annual heating usages were calculated as the sum of monthly usage in excess of the base monthly usage for the following five months: January, February, March, November and December. Annual cooling usages were calculated as the sum of monthly usage in excess of the base monthly usage for the remaining seven months. Heating and cooling months were determined by calendar year 2005 heating and cooling degree day data.

For the purpose of completing the analysis for total energy usage electric and natural gas usages were converted to BTU usages and summed and the analysis was repeated. Finally the analysis was completed to obtain seasonal costs by replacing monthly electric and natural gas usage with monthly cost in dollars. For electric cost the following rates* were applied to monthly usage:

Monthly Charge	$4.66
0-750 kWh	$0.04613
750+ kWh	$0.05576
Fuel Charge	$0.03550 applied to total kWh

For natural gas cost the following rates* were applied to monthly usage:

Monthly Charge	$7.04
Therm Charge	$1.07

*Average applicable rates during the time period January 2005 – December 2005.

Seasonal costs and usages by dwelling type, dwelling age, dwelling size, total number of occupants, water heating fuel type, air conditioning system type, space heating system type, thermostat temperature settings and family income levels are presented in section IV.

Section II: Weighted Survey Results

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YOUR HOME

1. Home ownership.

29.2%	Renting
70.7%	Own (or buying)
.1%	Not sure

2. Type of structure.

18.3%	Multi-family dwelling with 4 units or less
23.5%	Multi-family dwelling with 5 units or more
4.5%	Manufactured house/mobile home
53.7%	Single family home

3. What is the estimated age of your home?

3.6%	4 years or less
9%	5 to 9 years
21.8%	10 to 19 years
41.4%	20 to 35 years
24.2%	36 years or more

4. How many square feet of living area are there in your home, including bathrooms and hallways? (Do not include garages, patios and porches.)

3.7%	0-499	**13.5%**	2,000-2,499
18.5%	500-999	**5.3%**	2,500-2,999
32.9%	1,000-1,499	**4.3%**	3,000-3,999
20.5%	1,500-1,999	**1.3%**	4,000 or more

5. Which of the following utility services, if any, are included in your rent or homeowners fee?

20%	Electric
29.1%	Water
11.9%	Natural Gas
0%	Not sure
61.4%	No utility services are included

YOUR AIR CONDITIONING SYSTEM

1. Describe the main type of air conditioning system used to cool your home? (select one)

Heat pump air conditioning
(Outdoor unit operates in heating and cooling modes)

56.4%	Central system
1.4%	Window/wall/room unit(s)

Standard electric air conditioning

39.8%	Central system
1.9%	Window/wall/room unit(s)
.2%	Outside AC
.3%	Other

2. What type of thermostat does your main cooling system use?

28.6%	Programmable thermostat (Digital units usually have a digital readout and buttons.)
68.2%	Standard thermostat (Allows you to set the temperature and turn the heater on or off. You cannot set on/off times.)
3.2%	No thermostat (simple on/off control) If no thermostat, please skip to question 4).

3. If your main cooling system is controlled by a thermostat, what is the average thermostat temperature usually set for each time period during the ***cooling season***?

	Below 73 F	73-76F	77-80F	Over 80F	Off
Morning (6am-9am)	**11.9%**	**32%**	**42.5%**	**5.2%**	**8.4%**
Day (9am-5pm)	**7.6%**	**27.1%**	**47.4%**	**9.8%**	**8.1%**
Evening (5pm-9pm)	**8.5%**	**40.4%**	**46%**	**3.3%**	**1.8%**
Night (9pm-6am)	**13.6%**	**35.3%**	**39.7%**	**5.5%**	**5.9%**

4. Has an air conditioning professional inspected or performed maintenance on your central cooling system within the last 12 months?

55% Yes **45%** No

Section II: Weighted Survey Results

YOUR HEATING SYSTEM

1. What is the main energy source used to heat your home? (select one)

62.9%	Electricity
31.4%	Natural gas
1.2%	LP (liquid propane)
1.2%	Oil or kerosene
.8%	Wood
1.3%	Do not have home heating system
1.2%	Not sure

2. If the main energy source used to heat your home is electricity, which type of heating system do you have? (select one)

Heat pump heating:
(Outdoor unit operates in heating and cooling modes)

82.5%	Central air to air heat pump
1.2%	Non-central heat pump (window or wall unit)

Resistance or "strip" heating:
(Outdoor unit does not operate in heating mode)

11.8%	Central resistance heating system
.5%	Permanent, non-central resistance heater(s)
1.2%	Portable resistance heater(s)
2.8%	Other

3. What type of thermostat does your main heating system use?

31.1%	Programmable thermostat (Allows you to set on/off times.)
66.5%	Standard thermostat (Allows you to set the temperature and turn the heater on or off. You cannot set on/off times.)
2.4%	No thermostat (simple on/off control) (If no thermostat, please skip question 4 and move to the water heating section)

4. If your main heating system is controlled by a thermostat, what is the average thermostat temperature usually set for each time period during the ***heating season***?

	Below 64F	65-69F	70-74F	Over 74F	Off
Morning (6am-9am)	**7.1%**	**37%**	**38.1%**	**9.6%**	**8.2%**
Day (9am-5pm)	**11.3%**	**35.7%**	**28.8%**	**7.7%**	**16.5%**
Evening (5pm-9pm)	**7%**	**34.9%**	**40.7%**	**9.3%**	**8.1%**
Night (9pm-6am)	**13.3%**	**39.2%**	**29.8%**	**8.6%**	**9.1%**

WATER HEATING

1. What is the main energy source for water heating in your home? (select one)

64.7%	Electricity
29.5%	Natural gas
1.1%	LP (liquid propane) gas
.3%	Oil or kerosene
1%	Solar with gas backup
.2%	Solar with electric backup
	Heat recovery unit with electric backup
.2	Other (_____)
3%	Not sure

2. How old is your primary water heating system?

4%	Less than one year	**33.8%**	4-8 yrs	**23%**	14-30 yrs
15.5%	1-3 yrs	**20.6%**	9-13 yrs	**3.1%**	Over 30 yrs

USES OF WATER/WATER CONSERVATION

1. Do you have an in-ground irrigation system?

27% Yes **73%** No

If yes, please select which days of the week you typically use your irrigation system. (Select all that apply)

Mon	**14.7%**	Wed	**26.1%**	Fri	**19.6%**
Tues	**10.1%**	Thurs	**9.6%**	Sat	**18.6%**
Sun	**19%**				
as needed	**32.1%**				

Section II: Weighted Survey Results

2. How many of the following water saving devices are in your home? (select all that apply)

	1	2	3	4 or more
Low flow showerhead	**20.3**	**19.8**	**3.5**	**.8**
Faucet aerators	**10.4**	**9.2**	**10.8**	**8.8**
Low-flow toilets	**16.5**	**17.8**	**2.3**	**2**
Rain sensor for in-ground irrigation system	**6.7**	**0**	**.2**	**.3**
Other (specify_____)	**0**	**0**	**0**	**0**
No water saving devices	**32.1**			

HOME APPLIANCES

1. How many of the following appliances do you use in your home? (select all that apply)

	1	2	3	4 +
Clothes washer	**81.3%**	**.1%**	**0%**	**0%**
Clothes dryer electric	**73.3%**	**.3%**	**0%**	**0%**
Clothes dryer natural or LP gas	**5.8%**	**0%**	**0%**	**0%**
Well pump	**7.3%**	**0%**	**0%**	**0%**
Swimming pool pump	**10.2%**	**0%**	**0%**	**0%**
Pool heater electric	**1.2%**	**0%**	**0%**	**0%**
Pool heater natural or LP gas	**1.4%**	**0%**	**0%**	**0%**
Pool heater solar	**2.4%**	**0%**	**0%**	**0%**
Hot tub heater electric	**3.6%**	**0%**	**0%**	**0%**
Hot tub heater natural or LP gas	**2.7%**	**.1%**	**0%**	**.4%**
Electric dishwasher	**65.2%**	**0%**	**0%**	**0%**
Ceiling fans	**30.8%**	**11.8%**	**13.9%**	**28.1%**
Attic/Whole house fans	**8.9%**	**2%**	**0%**	**.3%**
Refrigerator / freezer combo	**79.6%**	**10.6%**	**.6%**	**.2%**
Stand alone refrigerators	**12.1%**	**.7%**	**0%**	**0%**
Stand alone freezers	**21.5%**	**.3%**	**.1%**	**0%**
Home theatre	**12.9%**	**1.6%**	**.5%**	**0%**
Sound system	**28.5%**	**1.8%**	**.5%**	**.8%**
Large screen television (>36 inches)	**19.8%**	**.8%**	**0%**	**.1%**
Standard television (<36 inches)	**44.5%**	**21.2%**	**11.2%**	**6.8%**
Personal computers	**52.7%**	**15.9%**	**4%**	**2.7%**
Exterior lights on dusk- to- dawn	**15.8%**	**5.2%**	**1%**	**1%**
Fixtures on motion detectors	**17.5%**	**5.5%**	**1.5%**	**2.6%**
Other _____	**2.3%**	**.8%**	**.3%**	**.5%**

1. Please indicate if you have ***added, replaced or removed*** any of the following appliances in the past 12 months. (Choose all that apply.)

Appliance	Added a new unit	Replaced old unit	Removed and did not replace
Central heating (heat pump)	**1.4%**	**4.4%**	**1%**
Central heating (electric resistance "strip heat")	**.1%**	**1.4%**	**1%**
Central heating (natural gas or propane)	**.5%**	**1%**	**.7%**
Other heating (wood, oil, etc.)	**.3%**	**.1%**	**.6%**
Central cooling (heat pump)	**.9%**	**3.5%**	**.8%**
Central cooling (standard electric)	**1.1%**	**3.1%**	**.6%**
Window/ wall/ room air conditioner	**1.4%**	**.9%**	**.8%**
Water heater (electric)	**1.2%**	**2.7%**	**.8%**
Water heater (natural gas or propane)	**1.3%**	**1%**	**.8%**
Water heater (solar)	**0%**	**.5%**	**.6%**
Water heater (heat recovery)	**.1%**	**.7%**	**.7%**
Dishwasher	**2.1%**	**7%**	**.7%**
Clothes washer	**2.1%**	**.3%**	**1%**
Clothes dryer	**3.2%**	**7.8%**	**1%**
Pool heater	**.3%**	**.2%**	**.6%**
Pool pump	**.1%**	**1.7%**	**.8%**
Hot tub	**.2%**	**.1%**	**.8%**
Large Screen television (>36 inches)	**2.5%**	**1.1%**	**.6%**
54.2%	Have not added, replaced or removed any of the above appliances		

Section II: Weighted Survey Results

2. What type of internet service do you currently use in your home?

24.1% Dial up

37.2% Cable

26.6% DSL

.7% Other (_____)

11.4% None

DEMOGRAPHIC INFORMATION

1. What is the primary language spoken in your home?

95.9% English

.9% Spanish

3.2% Other

2. How many persons live in your household in each of the following age groups?

Ages	1	2	3	4	5+
0 to 4	**.5%**	**.8%**	**.5%**	**.8%**	**0%**
5-17	**8.3%**	**6.2%**	**.7%**	**.5%**	**.2%**
18-34	**20.6%**	**12.9%**	**2.7%**	**2.4%**	**.3%**
35-64	**24.8%**	**25.4%**	**.8%**	**.2%**	**0%**
65+	**19.3%**	**10.2%**	**.1%**	**.2%**	**0%**

3. Will you be moving out of the Gainesville area within the next 12 months?

7% Yes **79.8%** No **13.2%** Unsure

4. What is the highest degree or level of school completed by adults (age 18 or older) living in your home? (Please select one for each adult living in the home. If the adult is currently enrolled mark the previous grade or highest degree obtained.)

Adult(s)	1	2	3	4	5
Did not graduate high school	**5.8%**	**.9%**	**0%**	**0%**	**0.6%**
High school graduate or equivalent	**15.2%**	**7.6%**	**1.7%**	**0.6%**	**0.4%**
Some college credit, no degree	**21%**	**6.5%**	**1.3%**	**0.6%**	**0%**
Associate's Degree	**13.2%**	**4.1%**	**0%**	**0.2%**	**0.3%**
Bachelor's Degree	**26.6%**	**9%**	**0.2%**	**0%**	**0.3%**
Master's Degree	**20.1%**	**3.4%**	**0.2%**	**0%**	**0.1%**
Professional Degree (MD, DDS, DVM)	**7.5%**	**1.5%**	**0%**	**0%**	**0%**
Doctorate Degree (Ph D, Ed D)	**7.6%**	**1.4%**	**0%**	**0%**	**0.1%**

5. We realize that family income is a personal and sensitive matter. However, family income is an important factor in determining how much electric energy a family might use. Because of this, we would like for you to supply this information by placing a check in the box that approximates the total annual income for your household.

8.8% Less than $10,000

7.4% $10,000 - $14,999

13% $15,000 - $24,999

17.2% $25,000 - $34,999

13.9% $35,000 - $49,999

17.2% $50,000 - $74,999

9.5% $75,000 – $99,999

7.8% $100,000 - $149,999

5.2% $150,000 or more

Section III: Sample Comparison Against Population

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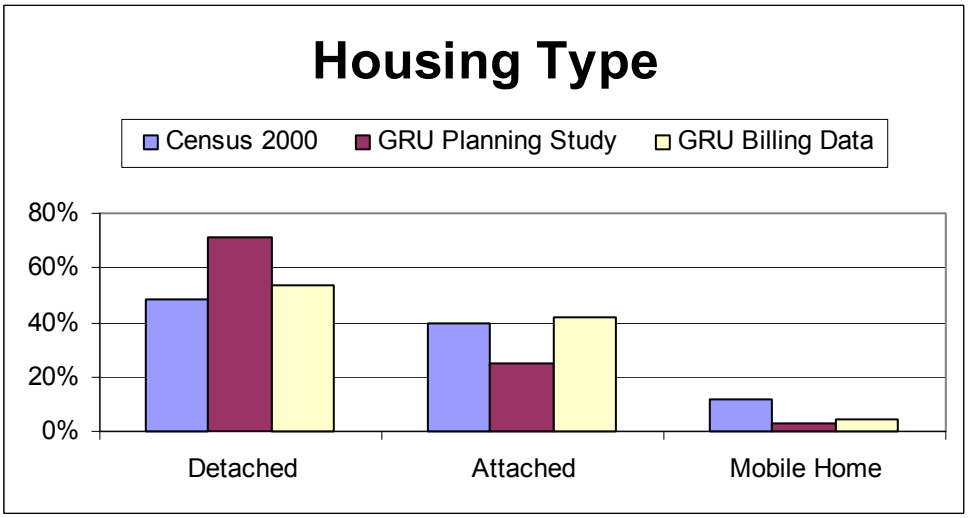
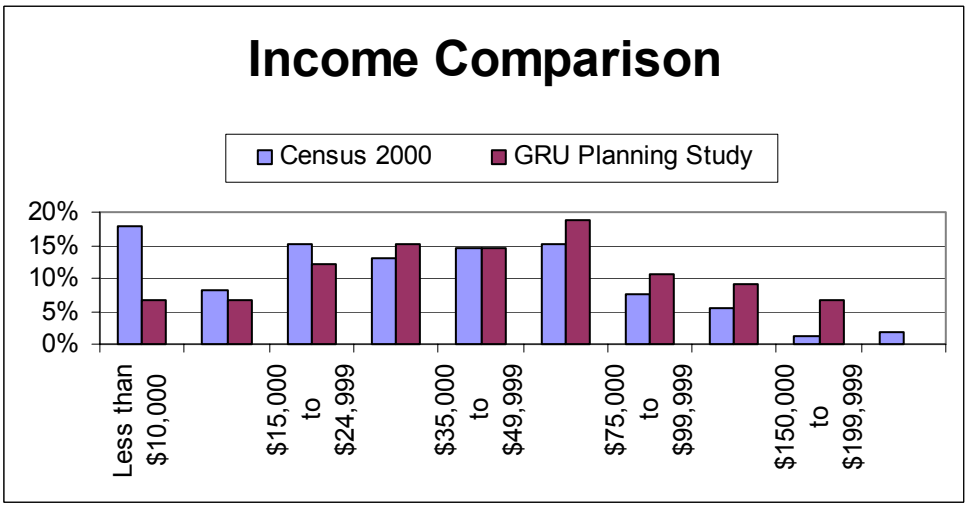
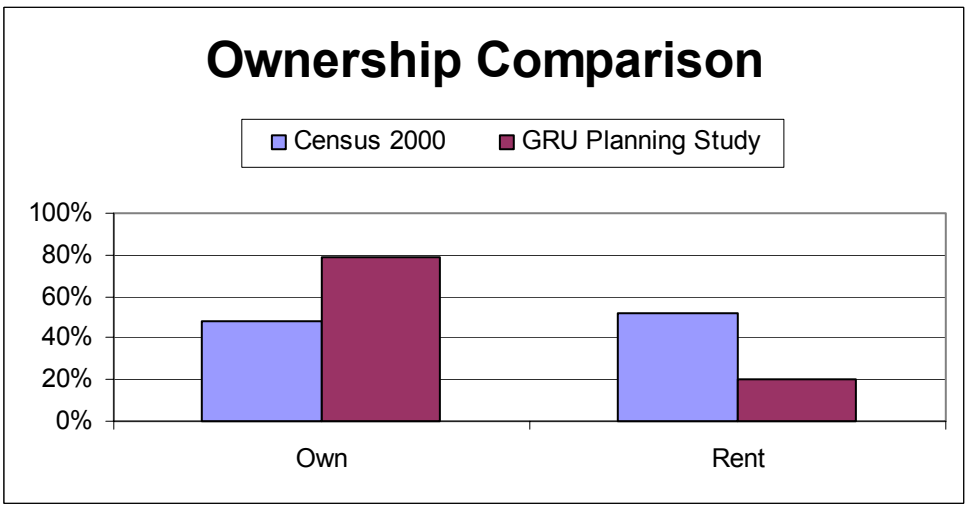
Census 2000

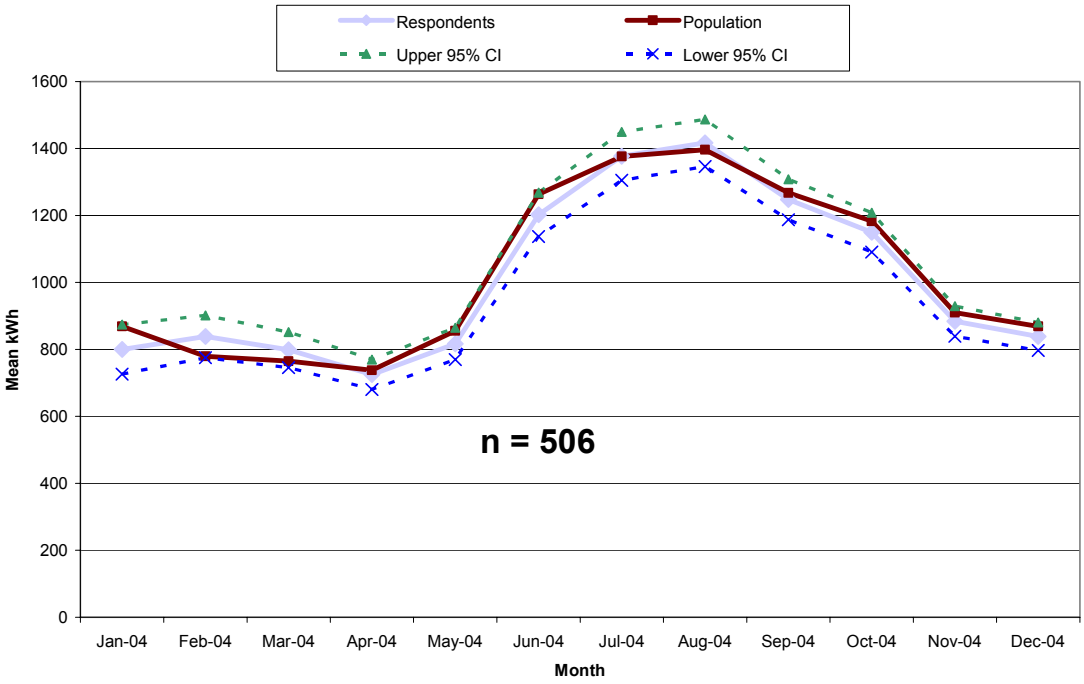




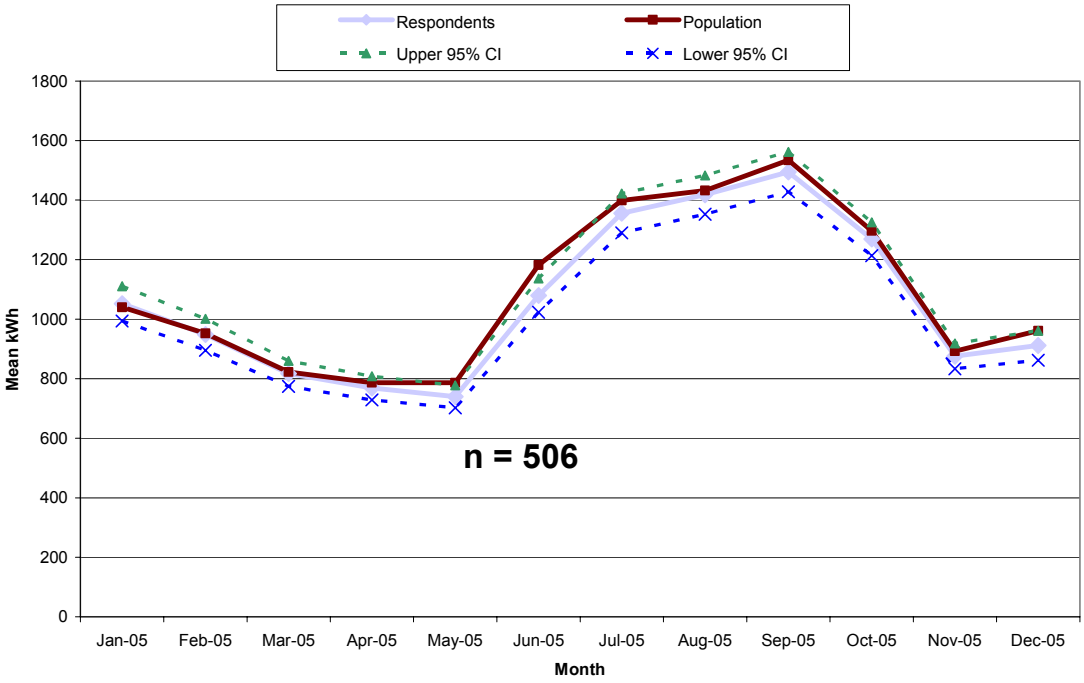


Section III: Sample Comparison Against Population
Monthly Energy and Water Usage

Comparison of Electric Usage Calendar Year 2004

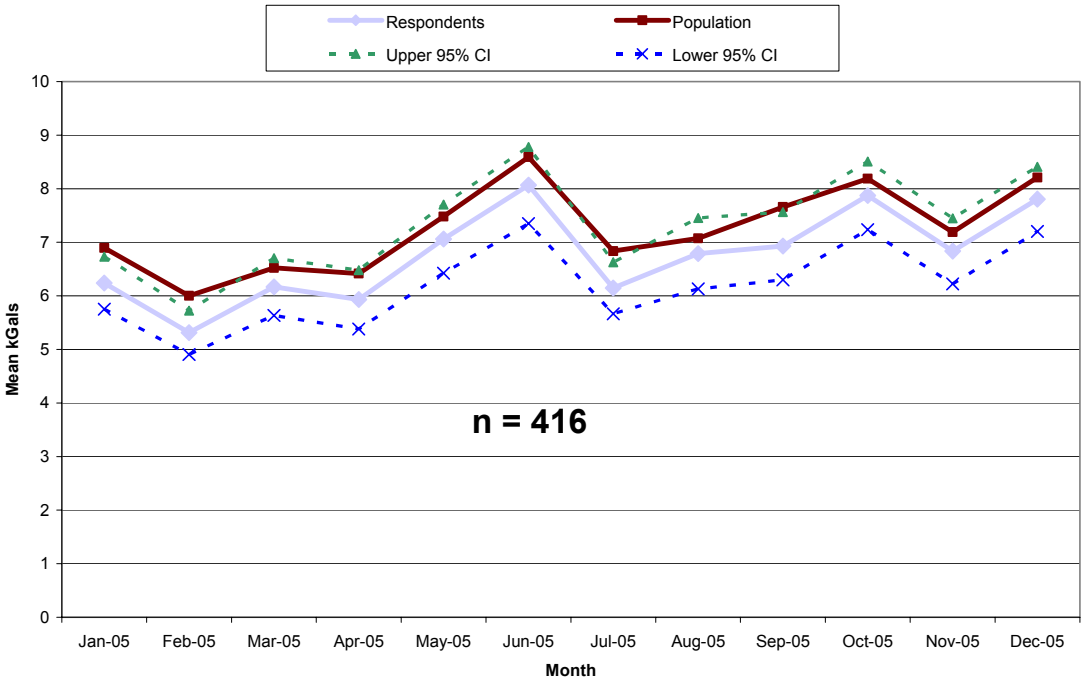


Comparison of Electric Usage Calendar Year 2005

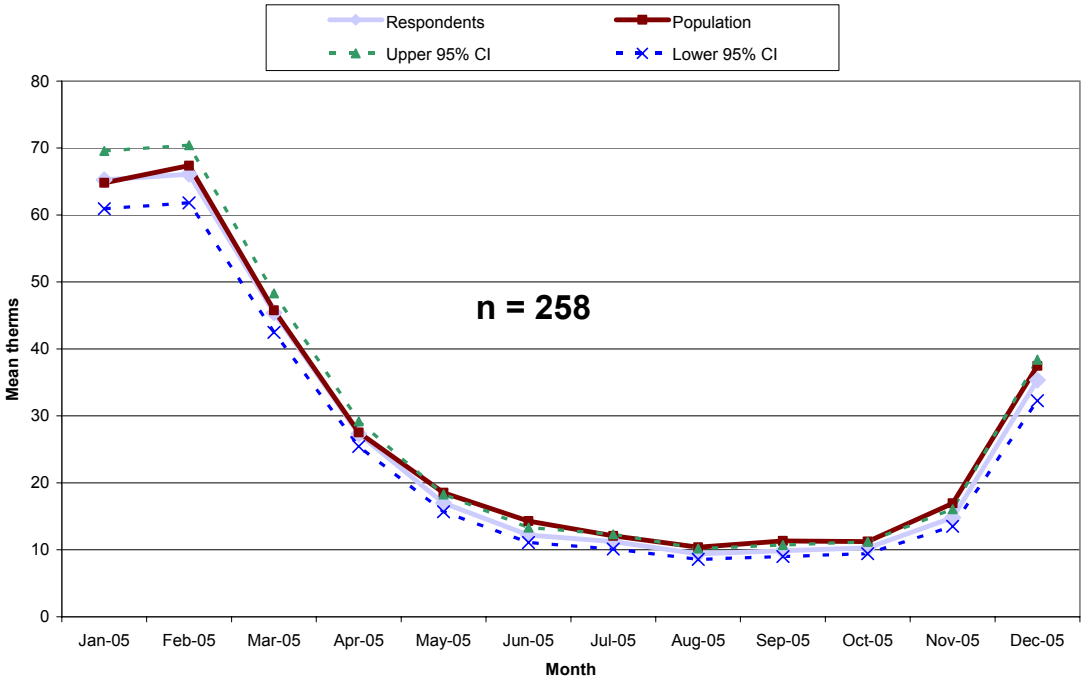


Section III: Sample Comparison Against Population
Monthly Energy and Water Usage

Comparison of Water Usage Calendar Year 2005



Comparison of Gas Usage Calendar Year 2005



Customers Surveyed and Response Distribution

NOTE: LOCATIONS AND DIMENSIONS ARE GIVEN FOR UTILITIES' STAFF USE ONLY. ENGINEER/CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION

0 3,000 6,000

Feet

N

W E

S

Legend

- ServicePoint_Elec
- Surveyed Customers
- Surveys Returned
- City Limits

NOTE For ease of reading, the legend refers to customer points when in fact what is being mapped is a service point location. Since each service point may represent more than one meter, it therefore could possibly represent more than one customer.

GRU More than Energy℠

D:\ARCDATA\BARCLAY SURVEY\APPLIANCE SURVEY RESPONSE 36x24.MXD PLOTTED 10/19/06 BY CJO

Section IV: Seasonal Usage Analysis

Section IV: Seasonal Usage Analysis
Weighted by Dwelling Type

Seasonal Cost by Dwelling Type

Sample Mean Cost for January 2005 through December 2005

		Annual Cost	Base Cost		Heating Cost		Cooling Cost	
Dwelling Type	**n**	$	$	% Annual	$	% Annual	kWh	% Annual
Attached	128	879	381	43%	196	22%	302	34%
Mobile Homes	16	920	448	49%	205	22%	267	29%
Unattached	362	1,279	678	53%	258	20%	344	27%
All Dwellings	506	1,097	544	50%	229	21%	323	29%

Seasonal Cost by Dwelling Age

Sample Mean Cost for January 2005 through December 2005

		Annual Cost	Base Cost		Heating Cost		Cooling Cost	
Dwelling Age	**n**	$	$	% Annual	$	% Annual	kWh	% Annual
< 4 years	19	1,052	509	48%	230	22%	312	30%
5 to 9 years	44	1,062	535	50%	209	20%	318	30%
10 to 19 years	95	991	480	48%	212	21%	298	30%
20 to 35 years	193	1,125	565	50%	227	20%	333	30%
> 36 years	133	1,183	589	50%	251	21%	343	29%

Seasonal Cost by Dwelling Size

Sample Mean Cost for January 2005 through December 2005

		Annual Cost	Base Cost		Heating Cost		Cooling Cost	
SqFt of Dwelling	**n**	$	$	% Annual	$	% Annual	kWh	% Annual
0-499	13	933	437	47%	199	21%	296	32%
500-999	60	824	331	40%	187	23%	306	37%
1,000-1,499	145	952	477	50%	197	21%	278	29%
1,500-1,999	106	1,141	604	53%	229	20%	308	27%
2,000-2,499	73	1,318	658	50%	279	21%	381	29%
2,500-2,999	32	1,523	791	52%	325	21%	407	27%
3,000-3,999	26	2,046	1,145	56%	363	18%	538	26%
> 4,000	7	1,776	815	46%	382	22%	579	33%

Seasonal Cost by Total Occupants

Sample Mean Cost for January 2005 through December 2005

		Annual Cost	Base Cost		Heating Cost		Cooling Cost	
Total Occupants	**n**	$	$	% Annual	$	% Annual	kWh	% Annual
1	135	910	418	46%	203	22%	289	32%
2	215	1,140	571	50%	241	21%	328	29%
3	69	1,097	548	50%	229	21%	321	29%
4	52	1,342	720	54%	244	18%	378	28%
5	14	1,282	688	54%	268	21%	326	25%
6 or more	14	1,482	763	51%	233	16%	486	33%

Section IV: Seasonal Usage Analysis
Weighted by Dwelling Type

Seasonal Cost by Type of Water Heating

Sample Mean Cost for January 2005 through December 2005

		Annual Cost	Base Cost		Heating Cost		Cooling Cost	
Water Heater	n	$	$	% Annual	$	% Annual	kWh	% Annual
Electric	290	986	454	46%	212	21%	320	32%
Gas	187	1,331	740	56%	269	20%	323	24%
Solar	8	1,232	499	41%	209	17%	524	43%

Seasonal Cost by Type of Air Conditioning

Sample Mean Cost for January 2005 through December 2005

		Annual Cost	Base Cost		Heating Cost		Cooling Cost	
AC Type	n	$	$	% Annual	$	% Annual	kWh	% Annual
Any AC	492	1,035	259	25%	348	34%	428	41%
No AC	15	1,077	514	48%	241	22%	321	30%
Std. Central AC	200	1,156	574	50%	244	21%	338	29%
HP Central AC	273	1,064	532	50%	219	21%	314	29%
Non-Central AC	16	946	437	46%	219	23%	290	31%

Seasonal Cost by Type of Heating

Sample Mean Cost for January 2005 through December 2005

		Annual Cost	Base Cost		Heating Cost		Cooling Cost	
Heat Type	n	$	$	% Annual	$	% Annual	kWh	% Annual
Any Electric	283	990	460	46%	210	21%	320	32%
Not Electric	224	1,275	685	54%	262	21%	328	26%
HP Central	254	1,026	484	47%	213	21%	329	32%
Resistance	36	991	503	51%	195	20%	293	30%

Seasonal Cost by Morning Cooling Temperature

Sample Mean Cost for January 2005 through December 2005

		Annual Cost	Base Cost		Heating Cost		Cooling Cost	
Temperature	n	$	$	% Annual	$	% Annual	kWh	% Annual
Below 73	53	1,139	621	55%	207	18%	311	27%
73-76	143	1,184	594	50%	233	20%	357	30%
77-80	209	1,077	527	49%	239	22%	311	29%
Over 80	23	921	509	55%	226	25%	186	20%
Off	35	926	421	45%	206	22%	298	32%

Section IV: Seasonal Usage Analysis
Weighted by Dwelling Type

Seasonal Cost by Daytime Cooling Temperature

Sample Mean Cost for January 2005 through December 2005

		Annual Cost	Base Cost		Heating Cost		Cooling Cost	
Temperature	n	$	$	% Annual	$	% Annual	kWh	% Annual
Below 73	36	1,180	618	52%	244	21%	319	27%
73-76	121	1,174	605	52%	214	18%	355	30%
77-80	209	1,101	549	50%	240	22%	312	28%
Over 80	45	1,082	519	48%	243	22%	320	30%
Off	31	925	403	44%	202	22%	320	35%

Seasonal Cost by Evening Cooling Temperature

Sample Mean Cost for January 2005 through December 2005

		Annual Cost	Base Cost		Heating Cost		Cooling Cost	
Temperature	n	$	$	% Annual	$	% Annual	kWh	% Annual
Below 73	40	1,238	652	53%	240	19%	345	28%
73-76	181	1,147	577	50%	224	20%	347	30%
77-80	209	1,067	526	49%	235	22%	306	29%
Over 80	16	1,010	456	45%	237	24%	317	31%
Off	6	763	329	43%	197	26%	237	31%

Seasonal Cost by Nighttime Cooling Temperature

Sample Mean Cost for January 2005 through December 2005

		Annual Cost	Base Cost		Heating Cost		Cooling Cost	
Temperature	n	$	$	% Annual	$	% Annual	kWh	% Annual
Below 73	61	1,166	631	54%	214	18%	321	28%
73-76	154	1,162	578	50%	235	20%	348	30%
77-80	195	1,063	526	49%	230	22%	307	29%
Over 80	27	1,083	520	48%	234	22%	329	30%
Off	26	975	427	44%	231	24%	317	32%

Seasonal Cost by Morning Heating Temperature

Sample Mean Cost for January 2005 through December 2005

		Annual Cost	Base Cost		Heating Cost		Cooling Cost	
Temperature	n	$	$	% Annual	$	% Annual	kWh	% Annual
Over 74	39	1,050	554	53%	222	21%	274	26%
70-74	179	1,124	564	50%	230	20%	330	29%
65-69	184	1,119	559	50%	240	21%	320	29%
Below 64	32	1,085	534	49%	204	19%	347	32%
Off	33	1,017	478	47%	221	22%	318	31%

Section IV: Seasonal Usage Analysis
Weighted by Dwelling Type

Seasonal Cost by Daytime Heating Temperature

Sample Mean Cost for January 2005 through December 2005

		Annual Cost	Base Cost		Heating Cost		Cooling Cost	
Temperature	n	$	$	% Annual	$	% Annual	kWh	% Annual
Over 74	34	1,056	552	52%	214	20%	289	27%
70-74	135	1,172	617	53%	233	20%	322	27%
65-69	178	1,147	579	50%	245	21%	324	28%
Below 64	54	1,131	542	48%	226	20%	362	32%
Off	62	926	412	44%	204	22%	310	33%

Seasonal Cost by Evening Heating Temperature

Sample Mean Cost for January 2005 through December 2005

		Annual Cost	Base Cost		Heating Cost		Cooling Cost	
Temperature	n	$	$	% Annual	$	% Annual	kWh	% Annual
Over 74	40	1,050	533	51%	226	22%	291	28%
70-74	190	1,146	584	51%	233	20%	330	29%
65-69	176	1,143	576	50%	243	21%	324	28%
Below 64	31	1,079	538	50%	196	18%	345	32%
Off	27	840	343	41%	195	23%	303	36%

Seasonal Cost by Nighttime Heating Temperature

Sample Mean Cost for January 2005 through December 2005

		Annual Cost	Base Cost		Heating Cost		Cooling Cost	
Temperature	n	$	$	% Annual	$	% Annual	kWh	% Annual
Over 74	33	1,060	562	53%	217	20%	282	27%
70-74	134	1,073	540	50%	214	20%	320	30%
65-69	194	1,161	580	50%	245	21%	336	29%
Below 64	67	1,137	583	51%	237	21%	317	28%
Off	39	974	437	45%	218	22%	319	33%

Seasonal Cost by Income Level

Sample Mean Cost for January 2005 through December 2005

		Annual Cost	Base Cost		Heating Cost		Cooling Cost	
Income Level	n	$	$	% Annual	$	% Annual	kWh	% Annual
< $10,000	31	912	418	46%	185	20%	309	34%
$10-14,999	31	930	447	48%	188	20%	295	32%
$15-$24,999	56	971	474	49%	215	22%	282	29%
$25-$34,999	71	957	444	46%	220	23%	293	31%
$35-$49,999	68	1,050	500	48%	234	22%	316	30%
$50-$74,999	91	1,150	563	49%	252	22%	335	29%
$75-$99,999	50	1,283	721	56%	218	17%	344	27%
$100-$149,999	43	1,308	690	53%	239	18%	378	29%
> $150,000	31	1,667	898	54%	311	19%	458	27%

Section IV: Seasonal Usage Analysis
Weighted by Dwelling Type

Seasonal Usage by Dwelling Type

Sample Mean Usage for January 2005 through December 2005

		Annual Usage	Base Usage		Heating Usage		Cooling Usage	
Dwelling Type	**n**	kWh	kWh	% Annual	kWh	% Annual	kWh	% Annual
Attached	128	9,770	3,474	36%	2,231	23%	4,065	42%
Mobile Homes	16	11,187	4,902	44%	2,371	21%	3,914	35%
Unattached	362	13,826	6,706	49%	2,141	15%	4,979	36%
All Dwellings	506	12,015	5,276	44%	2,189	18%	4,550	38%

Seasonal Usage by Dwelling Age

Sample Mean Usage for January 2005 through December 2005

		Annual Usage	Base Usage		Heating Usage		Cooling Usage	
Dwelling Age	**n**	kWh	kWh	% Annual	kWh	% Annual	kWh	% Annual
< 4 years	19	10,074	2,497	25%	2,639	26%	4,939	49%
5 to 9 years	44	11,202	5,205	46%	1,764	16%	4,232	38%
10 to 19 years	95	10,674	4,217	40%	2,102	20%	4,355	41%
20 to 35 years	193	12,939	6,010	46%	2,251	17%	4,678	36%
> 36 years	133	12,939	6,010	46%	2,251	17%	4,678	36%

Seasonal Usage by Dwelling Size

Sample Mean Usage for January 2005 through December 2005

		Annual Usage	Base Usage		Heating Usage		Cooling Usage	
SqFt of Dwelling	**n**	kWh	kWh	% Annual	kWh	% Annual	kWh	% Annual
0-499	13	9,449	3,133	33%	2,433	26%	3,883	41%
500-999	60	8,354	3,276	39%	1,640	20%	3,438	41%
1,000-1,499	145	10,684	4,441	42%	2,147	20%	4,095	38%
1,500-1,999	106	12,504	5,239	42%	2,252	18%	5,013	40%
2,000-2,499	73	15,071	7,690	51%	2,199	15%	5,182	34%
2,500-2,999	32	16,062	7,646	48%	2,346	15%	6,071	38%
3,000-3,999	26	23,382	12,984	56%	3,195	14%	7,203	31%
> 4,000	7	22,452	6,998	31%	5,499	24%	9,955	44%

Seasonal Usage by Total Occupants

Sample Mean Usage for January 2005 through December 2005

		Annual Usage	Base Usage		Heating Usage		Cooling Usage	
Total Occupants	**n**	kWh	kWh	% Annual	kWh	% Annual	kWh	% Annual
1	135	8,358	3,504	42%	1,572	19%	3,282	39%
2	215	12,598	5,845	46%	2,107	17%	4,646	37%
3	69	13,857	6,019	43%	2,673	19%	5,165	37%
4	52	16,167	7,595	47%	2,838	18%	5,734	35%
5	14	15,820	4,431	28%	4,490	28%	6,899	44%
6 or more	14	17,004	6,272	37%	3,084	18%	7,648	45%

Section IV: Seasonal Usage Analysis
Weighted by Dwelling Type

Seasonal Usage by Type of Water Heating

Sample Mean Usage for January 2005 through December 2005

		Annual Usage	Base Usage		Heating Usage		Cooling Usage	
Water Heater	**n**	kWh	kWh	% Annual	kWh	% Annual	kWh	% Annual
Electric	290	12,266	5,352	44%	2,525	21%	4,389	36%
Gas	187	11,667	5,300	45%	1,541	13%	4,826	41%
Solar	8	15,608	8,495	54%	1,699	11%	5,415	35%

Seasonal Usage by Type of Air Conditioning

Sample Mean Usage for January 2005 through December 2005

		Annual Usage	Base Usage		Heating Usage		Cooling Usage	
AC Type	**n**	kWh	kWh	% Annual	kWh	% Annual	kWh	% Annual
Any AC	492	12,077	5,278	44%	2,218	18%	4,581	38%
No AC	15	9,959	5,208	52%	1,218	12%	3,533	35%
Std. Central AC	200	11,852	5,278	45%	1,864	16%	4,709	40%
HP Central AC	273	12,408	5,393	43%	2,461	20%	4,554	37%
Non-Central AC	16	9,021	3,487	39%	2,133	24%	3,402	38%

Seasonal Usage by Type of Heating

Sample Mean Usage for January 2005 through December 2005

		Annual Usage	Base Usage		Heating Usage		Cooling Usage	
Heat Type	**n**	kWh	kWh	% Annual	kWh	% Annual	kWh	% Annual
Any Electric	283	12,200	5,168	42%	2,626	22%	4,406	36%
Not Electric	224	11,707	5,457	47%	1,457	12%	4,792	41%
HP Central	254	12,690	5,425	43%	2,635	21%	4,629	36%
Resistance	36	10,719	5,626	52%	1,611	15%	3,482	32%

Section IV: Seasonal Usage Analysis
Weighted by Dwelling Type

Seasonal Consumption by Morning Cooling Temperature

Sample Mean Usage for January 2005 through December 2005

		Annual Usage	Base Usage		Heating Usage		Cooling Usage	
Temperature	**n**	kWh	kWh	% Annual	kWh	% Annual	kWh	% Annual
Below 73	53	12,306	4,907	40%	2,370	19%	5,028	41%
73-76	143	13,456	6,096	45%	2,277	17%	5,082	38%
77-80	209	11,861	5,339	45%	2,172	18%	4,350	37%
Over 80	23	12,099	5,762	48%	2,126	18%	4,211	35%
Off	35	9,551	3,603	38%	1,995	21%	3,953	41%

Seasonal Consumption by Daytime Cooling Temperature

Sample Mean Usage for January 2005 through December 2005

		Annual Usage	Base Usage		Heating Usage		Cooling Usage	
Temperature	**n**	kWh	kWh	% Annual	kWh	% Annual	kWh	% Annual
Below 73	36	12,724	5,023	39%	2,631	21%	5,071	40%
73-76	121	13,685	5,766	42%	2,469	18%	5,450	40%
77-80	209	9,430	5,532	59%	2,059	22%	1,839	19%
Over 80	45	11,335	5,412	48%	1,956	17%	3,968	35%
Off	31	9,869	3,676	37%	2,142	22%	4,051	41%

Seasonal Consumption by Evening Cooling Temperature

Sample Mean Usage for January 2005 through December 2005

		Annual Usage	Base Usage		Heating Usage		Cooling Usage	
Temperature	**n**	kWh	kWh	% Annual	kWh	% Annual	kWh	% Annual
Below 73	40	13,699	5,068	37%	2,975	22%	5,655	41%
73-76	181	13,030	5,803	45%	2,247	17%	4,980	38%
77-80	209	11,535	5,255	46%	2,052	18%	4,229	37%
Over 80	16	10,396	5,357	52%	1,502	14%	3,537	34%
Off	6	10,595	2,918	28%	3,256	31%	4,421	42%

Seasonal Consumption by Nighttime Cooling Temperature

Sample Mean Usage for January 2005 through December 2005

		Annual Usage	Base Usage		Heating Usage		Cooling Usage	
Temperature	**n**	kWh	kWh	% Annual	kWh	% Annual	kWh	% Annual
Below 73	61	13,030	5,213	40%	2,437	19%	5,380	41%
73-76	154	13,036	5,871	45%	2,207	17%	4,958	38%
77-80	195	11,582	5,286	46%	2,100	18%	4,197	36%
Over 80	27	12,588	6,062	48%	2,294	18%	4,232	34%
Off	26	10,146	3,155	31%	2,443	24%	4,548	45%

Section IV: Seasonal Usage Analysis
Weighted by Dwelling Type

Seasonal Consumption by Morning Heating Temperature

Sample Mean Usage for January 2005 through December 2005

		Annual Usage	Base Usage		Heating Usage		Cooling Usage	
Temperature	n	kWh	kWh	% Annual	kWh	% Annual	kWh	% Annual
Over 74	39	11,946	4,844	41%	2,661	22%	4,441	37%
70-74	179	12,795	5,931	46%	2,273	18%	4,592	36%
65-69	184	11,906	5,674	48%	1,874	16%	4,359	37%
Below 64	32	10,801	4,143	38%	2,044	19%	4,614	43%
Off	33	11,701	3,969	34%	2,429	21%	5,303	45%

Seasonal Consumption by Daytime Heating Temperature

Sample Mean Usage for January 2005 through December 2005

		Annual Usage	Base Usage		Heating Usage		Cooling Usage	
Temperature	n	kWh	kWh	% Annual	kWh	% Annual	kWh	% Annual
Over 74	34	11,392	4,637	41%	2,400	21%	4,356	38%
70-74	135	13,536	6,026	45%	2,527	19%	4,982	37%
65-69	178	12,169	5,794	48%	1,910	16%	4,465	37%
Below 64	54	11,798	4,774	40%	2,127	18%	4,897	42%
Off	62	10,327	4,315	42%	1,933	19%	4,078	39%

Seasonal Consumption by Evening Heating Temperature

Sample Mean Usage for January 2005 through December 2005

		Annual Usage	Base Usage		Heating Usage		Cooling Usage	
Temperature	n	kWh	kWh	% Annual	kWh	% Annual	kWh	% Annual
Over 74	40	11,197	5,078	45%	2,191	20%	3,928	35%
70-74	190	10,402	5,906	57%	2,377	23%	2,120	20%
65-69	176	12,204	5,600	46%	1,994	16%	4,610	38%
Below 64	31	10,778	4,364	40%	1,811	17%	4,602	43%
Off	27	9,946	3,693	37%	2,139	22%	4,113	41%

Seasonal Consumption by Nighttime Heating Temperature

Sample Mean Usage for January 2005 through December 2005

		Annual Usage	Base Usage		Heating Usage		Cooling Usage	
Temperature	n	kWh	kWh	% Annual	kWh	% Annual	kWh	% Annual
Over 74	33	12,534	4,903	39%	2,929	23%	4,703	38%
70-74	134	12,412	5,483	44%	2,329	19%	4,600	37%
65-69	194	12,297	5,707	46%	1,954	16%	4,636	38%
Below 64	67	11,791	5,625	48%	1,865	16%	4,300	36%
Off	39	10,595	4,085	39%	2,068	20%	4,442	42%

Seasonal Usage by Income Level

Sample Mean Usage for January 2005 through December 2005

		Annual Usage	Base Usage		Heating Usage		Cooling Usage	
Income Level	n	kWh	kWh	% Annual	kWh	% Annual	kWh	% Annual
< $10,000	31	10,600	4,558	43%	2,058	19%	3,984	38%
$10-14,999	31	9,701	3,434	35%	2,284	24%	3,983	41%
$15-$24,999	56	10,343	3,835	37%	2,361	23%	4,146	40%
$25-$34,999	71	9,734	3,679	38%	2,107	22%	3,948	41%
$35-$49,999	68	11,454	4,834	42%	2,077	18%	4,542	40%
$50-$74,999	91	12,882	6,188	48%	2,142	17%	4,552	35%
$75-$99,999	50	15,432	7,983	52%	2,254	15%	5,195	34%
$100-$149,999	43	14,875	6,312	42%	2,486	17%	6,077	41%
> $150,000	31	17,757	9,358	53%	2,250	13%	6,149	35%

Section V: Raw Survey Results

Section V: Raw Survey Results

YOUR HOME

1. Home ownership.

20.6% Renting

79.2% Own (or buying)

.2% Not sure

2. Type of structure.

11.1% Multi-family dwelling with 4 units or less

14.2% Multi-family dwelling with 5 units or more

3.2% Manufactured house/mobile home

71.5% Single family home

3. What is the estimated age of your home?

3.7% 4 years or less

9.1% 5 to 9 years

19.5% 10 to 19 years

40% 20 to 35 years

27.7% 36 years or more

4. How many square feet of living area are there in your home, including bathrooms and hallways? (Do not include garages, patios and porches.)

2.8%	0-499	**15.9%**	2,000-2,499
13%	500-999	**6.9%**	2,500-2,999
31.5%	1,000-1,499	**5.6%**	3,000-3,999
22.8%	1,500-1,999	**1.5%**	4,000 or more

5. Which of the following utility services, if any, are included in your rent or homeowners fee?

20.9% Electric

26% Water

12.5% Natural Gas

0% Not sure

65.2% No utility services are included

YOUR AIR CONDITIONING SYSTEM

1. Describe the main type of air conditioning system used to cool your home? (select one)

Heat pump air conditioning
(Outdoor unit operates in heating and cooling modes)

55.4% Central system

1.5% Window/wall/room unit(s)

Standard electric air conditioning

40.7% Central system

1.8% Window/wall/room unit(s)

.2% Outside AC

.4% Other

2. What type of thermostat does your main cooling system use?

31.3% Programmable thermostat (Digital units usually have a digital readout and buttons.)

65.6% Standard thermostat (Allows you to set the temperature and turn the heater on or off. You cannot set on/off times.)

3.1% No thermostat (simple on/off control) If no thermostat, please skip to question 4).

3. If your main cooling system is controlled by a thermostat, what is the average thermostat temperature usually set for each time period during the ***cooling season***?

	Below 73 F	73-76F	77-80F	Over 80F	Off
Morning (6am-9am)	**11.5%**	**31%**	**45%**	**5.2%**	**7.3%**
Day (9am-5pm)	**7.8%**	**26.2%**	**49.3%**	**10%**	**6.7%**
Evening (5pm-9pm)	**8.6%**	**39%**	**47.4%**	**3.7%**	**1.3%**
Night (9pm-6am)	**13.2%**	**33.3%**	**41.8%**	**6.1%**	**5.6%**

4. Has an air conditioning professional inspected or performed maintenance on your central cooling system within the last 12 months?

58% Yes **42%** No

Section V: Raw Survey Results

YOUR HEATING SYSTEM

1. What is the main energy source used to heat your home? (select one)

55.9%	Electricity
37.5%	Natural gas
1.4%	LP (liquid propane)
1.4%	Oil or kerosene
1%	Wood
1.4%	Do not have home heating system
1.4%	Not sure

2. If the main energy source used to heat your home is electricity, which type of heating system do you have? (select one)

Heat pump heating:
(Outdoor unit operates in heating and cooling modes)

82.4%	Central air to air heat pump
1%	Non-central heat pump (window or wall unit)

Resistance or "strip" heating:
(Outdoor unit does not operate in heating mode)

12.1%	Central resistance heating system
.3%	Permanent, non-central resistance heater(s)
1.3%	Portable resistance heater(s)
2.9%	Other

3. What type of thermostat does your main heating system use?

32.7%	Programmable thermostat (Allows you to set on/off times.)
65.1%	Standard thermostat (Allows you to set the temperature and turn the heater on or off. You cannot set on/off times.)
2.2%	No thermostat (simple on/off control) (If no thermostat, please skip question 4 and move to the water heating section)

4. If your main heating system is controlled by a thermostat, what is the average thermostat temperature usually set for each time period during the ***heating season***?

	Below 64F	65-69F	70-74F	Over 74F	Off
Morning (6am-9am)	**6.9%**	**39.5%**	**38.4%**	**8.1%**	**7.1%**
Day (9am-5pm)	**11.7%**	**38.5%**	**29.2%**	**7.2%**	**13.4%**
Evening (5pm-9pm)	**6.7%**	**38%**	**41.1%**	**8.4%**	**5.8%**
Night (9pm-6am)	**14.4%**	**41.4%**	**28.9%**	**6.9%**	**8.4%**

WATER HEATING

1. What is the main energy source for water heating in your home? (select one)

58.1%	Electricity
36.3%	Natural gas
1.2%	LP (liquid propane) gas
.2%	Oil or kerosene
1.4%	Solar with gas backup
.2%	Solar with electric backup
0%	Heat recovery unit with electric backup
.2%	Other (_____)
2.4%	Not sure

2. How old is your primary water heating system?

4.9%	Less than one year	**34.5%**	4-8 yrs	**21.9%**	14-30 yrs
15.6%	1-3 yrs	**19.9%**	9-13 yrs	**3.2%**	Over 30 yrs

USES OF WATER/WATER CONSERVATION

1. Do you have an in-ground irrigation system?

29.4% Yes **70.6%** No

If yes, please select which days of the week you typically use your irrigation system. (Select all that apply)

Mon	**15%**	Wed	**28.7%**	Fri	**21.3%**
Tues	**10.6%**	Thurs	**10%**	Sat	**20.6%**
Sun	**21.3%**				
as needed	**35.4%**				

Section V: Raw Survey Results

2. How many of the following water saving devices are in your home? (select all that apply)

	1	2	3	4 or more
Low flow showerhead	**20.4**	**22.7**	**4.4**	**1**
Faucet aerators	**10.6**	**9.4**	**12.1**	**10.8**
Low-flow toilets	**17.3**	**19.6**	**2.6**	**2.6**
Rain sensor for in-ground irrigation system	**8.2**	**0**	**.2**	**.4**
Other (specify_____)	**0**	**0**	**0**	**0**
No water saving devices	**28.3**			

HOME APPLIANCES

1. How many of the following appliances do you use in your home? (select all that apply)

	1	2	3	4 +
Clothes washer	**87%**	**.2%**	**0%**	**0%**
Clothes dryer electric	**77.7%**	**.4%**	**0%**	**0%**
Clothes dryer natural or LP gas	**92.9%**	**7.1%**	**0%**	**0%**
Well pump	**8.9%**	**0%**	**0%**	**0%**
Swimming pool pump	**12.9%**	**0%**	**0%**	**0%**
Pool heater electric	**1.6%**	**0%**	**0%**	**0%**
Pool heater natural or LP gas	**1.6%**	**0%**	**0%**	**0%**
Pool heater solar	**3%**	**0%**	**0%**	**0%**
Hot tub heater electric	**3%**	**0%**	**0%**	**0%**
Hot tub heater natural or LP gas	**3.2%**	**.2%**	**0%**	**.2%**
Electric dishwasher	**67.8%**	**0%**	**0%**	**0%**
Ceiling fans	**30.4%**	**10.9%**	**13%**	**32.8%**
Attic/Whole house fans	**10.3%**	**2.4%**	**0%**	**.4%**
Refrigerator / freezer combo	**78.3%**	**12.2%**	**.6%**	**.2%**
Stand alone refrigerators	**12.6%**	**1%**	**0%**	**0%**
Stand alone freezers	**24.7%**	**.4%**	**.2%**	**0%**
Home theatre	**12.1%**	**1.4%**	**.4%**	**0%**
Sound system	**29.4%**	**2%**	**.4%**	**.8%**
Large screen television (>36 inches)	**21.9%**	**.8%**	**0%**	**.2%**
Standard television (<36 inches)	**43.3%**	**21.9%**	**11.9%**	**7.7%**
Personal computers	**52.8%**	**17.4%**	**4.1%**	**2%**
Exterior lights on dusk- to- dawn	**16%**	**5.5%**	**1.2%**	**1.4%**
Fixtures on motion detectors	**18.6%**	**6.7%**	**2%**	**3%**
Other _____	**80%**	**0%**	**0%**	**20%**

1. Please indicate if you have ***added, replaced or removed*** any of the following appliances in the past 12 months. (Choose all that apply.)

Appliance	Added a new unit	Replaced old unit	Removed and did not replace
Central heating (heat pump)	**1.4%**	**4.9%**	**.8%**
Central heating (electric resistance "strip heat")	**.2%**	**1.6%**	**1.6%**
Central heating (natural gas or propane)	**1.6%**	**1.4%**	**.4%**
Other heating (wood, oil, etc.)	**.4%**	**.2%**	**.4%**
Central cooling (heat pump)	**1%**	**3.7%**	**.6%**
Central cooling (standard electric)	**1.2%**	**3.1%**	**.4%**
Window/ wall/ room air conditioner	**1.6%**	**1%**	**.6%**
Water heater (electric)	**1.4%**	**2.8%**	**.6%**
Water heater (natural gas or propane)	**.6%**	**1.4%**	**.6%**
Water heater (solar)	**0%**	**.4%**	**.4%**
Water heater (heat recovery)	**.2%**	**.4%**	**.4%**
Dishwasher	**2.6%**	**7.1%**	**.6%**
Clothes washer	**2.2%**	**9.1%**	**.6%**
Clothes dryer	**3.2%**	**8.1%**	**.8%**
Pool heater	**.4%**	**.2%**	**.4%**
Pool pump	**.2%**	**2%**	**.6%**
Hot tub	**.2%**	**.2%**	**.6%**
Large Screen television (>36 inches)	**.4%**	**1%**	**.4%**
52.9%	Have not added, replaced or removed any of the above appliances		

2. What type of internet service do you currently use in your home?

25.8% Dial up

36.5% Cable

26.2% DSL

.7% Other (_____)

10.8% None

DEMOGRAPHIC INFORMATION

1. What is the primary language spoken in your home?

96 % English

1% Spanish

3% Other See Appendix

2. How many persons live in your household in each of the following age groups?

Ages	1	2	3	4	5+
0 to 4	**5.6%**	**.8%**	**0.4%**	**0.6%**	**0%**
5-17	**9.2%**	**7%**	**.8%**	**0.4%**	**.2%**
18-34	**19.1%**	**10.6%**	**2.6%**	**2%**	**0.2%**
35-64	**25.2%**	**30.3%**	**.8%**	**0.2%**	**0%**
65+	**19.4%**	**11.8%**	**.2%**	**0%**	**0.2%**

3. Will you be moving out of the Gainesville area within the next 12 months?

5.4% Yes **82.8%** No **11.8%** Unsure

4. What is the highest degree or level of school completed by adults (age 18 or older) living in your home? (Please select one for each adult living in the home. If the adult is currently enrolled mark the previous grade or highest degree obtained.)

Adult(s)	1	2	3	4	5
Did not graduate high school	**5.2%**	**1.2%**	**0%**	**0%**	**0.4%**
High school graduate or equivalent	**15%**	**7.4%**	**1.8%**	**0.6%**	**0.4%**
Some college credit, no degree	**21.6%**	**6.2%**	**1.2%**	**0.6**	**0%**
Associate's Degree	**13.8%**	**4.6%**	**0%**	**0.2%**	**0.2%**
Bachelor's Degree	**27%**	**9.4%**	**0.2%**	**0%**	**0.2%**
Master's Degree	**20.4%**	**3.8%**	**0.2%**	**0%**	**0.2%**
Professional Degree (MD, DDS, DVM)	**7.8%**	**1.8%**	**0%**	**0%**	**0%**
Doctorate Degree (Ph D, Ed D)	**8.2%**	**1.8%**	**0%**	**0%**	**0.2%**

5. We realize that family income is a personal and sensitive matter. However, family income is an important factor in determining how much electric energy a family might use. Because of this, we would like for you to supply this information by placing a check in the box that approximates the total annual income for your household.

6.6% Less than $10,000

6.6% $10,000 - $14,999

12.1% $15,000 - $24,999

15.1% $25,000 - $34,999

14.4% $35,000 - $49,999

18.9% $50,000 - $74,999

10.6% $75,000 – $99,999

9.1% $100,000 - $149,999

6.6% $150,000 or more

Section VI: Sample Errors

Section VI: Sample Errors
Sample errors calculated at 90% confidence level

Home Ownership

Occupancy Status	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**16**		**126**		**354**		**496**	
Rent	6.3%	10.0%	59.5%	5.6%	7.3%	2.3%	20.6%	3.0%
Own	93.8%	10.0%	40.5%	5.6%	92.4%	2.3%	79.2%	3.0%

Type of Structure

Type of Structure	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**16**		**128**		**362**		**506**	
Mobile Home	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.3%	1.3%
Single Family	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	72.3%	3.3%
Multi-Family 4 or less	0.0%	0.0%	43.8%	7.2%	0.0%	0.0%	11.5%	2.3%
Multi-Family 5 or more	0.0%	0.0%	56.3%	7.2%	0.0%	0.0%	12.9%	2.5%

What is the estimated age of your house?

Home Age	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**16**		**117**		**350**		**483**	
4 or less	0.0%	0.0%	3.4%	2.8%	4.0%	1.7%	3.7%	1.4%
5 to 9	25.0%	17.8%	6.8%	3.8%	9.1%	2.5%	9.1%	2.2%
10 to 19	31.3%	19.1%	29.1%	6.9%	15.7%	3.2%	19.5%	3.0%
20 to 35	37.5%	19.9%	47.0%	7.6%	37.7%	4.3%	40.0%	3.7%
36	6.3%	10.0%	13.7%	5.2%	33.4%	4.1%	27.7%	3.4%

How many square feet of living area are there in your home?

Dwelling Size	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**13**		**113**		**335**		**461**	
0-499	7.7%	12.2%	6.2%	3.7%	1.5%	1.1%	2.8%	1.3%
500-999	7.7%	12.2%	38.1%	7.5%	4.8%	1.9%	13.0%	2.6%
1000-1499	61.5%	22.2%	35.4%	7.4%	29.0%	4.1%	31.5%	3.6%
1500-1999	15.4%	16.5%	13.3%	5.2%	26.3%	4.0%	22.8%	3.2%
2000-2499	7.7%	12.2%	6.2%	3.7%	19.4%	3.6%	15.8%	2.8%
2500-2999	0.0%	0.0%	0.0%	0.0%	9.6%	2.6%	6.9%	1.9%
3000-3999	0.0%	0.0%	0.0%	0.0%	7.8%	2.4%	5.6%	1.8%
4000+	0.0%	0.0%	0.9%	1.4%	1.8%	1.2%	1.5%	0.9%

Which of the following services are included in your rent or homeowners fee?

Services Included	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**16**		**124**		**349**		**489**	
Electricity	31.3%	19.1%	16.1%	6.8%	22.1%	3.7%	20.9%	3.0%
Water	18.8%	16.1%	40.3%	5.8%	21.2%	3.7%	26.0%	3.3%
Natural Gas	6.3%	10.0%	10.5%	3.6%	13.5%	3.7%	12.5%	2.5%
n	**16**		**124**		**342**		**482**	
No Service Included	62.5%	19.9%	49.2%	7.2%	71.1%	3.7%	65.2%	3.5%

Describe the main type of air conditioning system used to cool your home?

Main AC Type	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**16**		**124**		**351**		**491**	
HP Central	31.3%	19.1%	62.1%	7.2%	54.1%	4.4%	55.4%	3.7%
HP Window/Wall	0.0%	0.0%	1.6%	1.9%	1.4%	1.0%	1.4%	0.9%
Outside AC	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
SE Central	68.8%	19.1%	33.9%	7.0%	41.9%	4.3%	40.7%	3.6%
SE Window/Wall	0.0%	0.0%	2.4%	2.3%	1.7%	1.1%	1.8%	1.0%
Other	0.0%	0.0%	0.0%	0.0%	0.6%	0.7%	0.4%	0.5%

Section VI: Sample Errors
Sample errors calculated at 90% confidence level

What type of thermostat does your main cooling system use?

Type of Thermostat	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**16**		**125**		**345**		**486**	
Programmable	18.8%	16.1%	20.8%	6.0%	35.7%	4.2%	31.3%	3.5%
Standard	81.3%	16.1%	75.2%	6.4%	61.5%	4.3%	65.6%	3.5%
No Thermostat	0.0%	0.0%	4.0%	2.9%	2.9%	1.5%	3.1%	1.3%

What is the average thermostat temperature set for each time period during the cooling season?

Summer Morning	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**15**		**115**		**332**		**462**	
Below 73 F	13.3%	14.4%	13.0%	5.2%	10.8%	2.8%	11.5%	2.4%
73-76	20.0%	17.0%	36.5%	7.4%	29.5%	4.1%	31.0%	3.5%
77-80	46.7%	21.2%	33.9%	7.3%	48.8%	4.5%	45.0%	3.8%
Over 80 F	13.3%	14.4%	4.4%	3.1%	5.1%	2.0%	5.2%	1.7%
Off	6.7%	10.6%	12.2%	5.0%	4.5%	1.9%	7.4%	2.0%

Summer Day	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**15**		**113**		**334**		**462**	
Below 73 F	6.7%	10.6%	7.1%	4.0%	8.1%	2.5%	7.8%	2.0%
73-76	20.0%	17.0%	31.0%	7.2%	29.5%	4.1%	26.2%	3.3%
77-80	46.7%	21.2%	40.7%	7.6%	48.8%	4.5%	49.4%	3.7%
Over 80 F	6.7%	10.6%	9.7%	4.6%	5.1%	2.0%	10.0%	2.2%
Off	20.0%	17.0%	11.5%	4.9%	5.7%	2.1%	6.7%	1.9%

Summer Evening	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**15**		**114**		**335**		**462**	
Below 73 F	0.0%	0.0%	8.8%	4.4%	9.0%	2.6%	8.6%	2.1%
73-76	33.3%	20.0%	45.6%	7.7%	37.0%	4.3%	39.0%	3.7%
77-80	53.3%	21.2%	40.4%	7.6%	49.6%	4.5%	47.4%	3.8%
Over 80 F	0.0%	0.0%	2.6%	2.5%	4.2%	1.8%	3.7%	1.4%
Off	13.3%	14.4%	2.6%	2.5%	0.3%	0.5%	1.3%	0.9%

Summer Night	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**15**		**114**		**333**		**462**	
Below 73 F	6.7%	10.6%	15.8%	5.6%	12.5%	3.0%	13.2%	2.6%
73-76	26.7%	18.8%	43.0%	18.2%	30.3%	4.1%	33.3%	3.6%
77-80	33.3%	20.0%	33.3%	19.4%	45.1%	4.5%	41.8%	3.8%
Over 80 F	13.3%	14.4%	2.6%	14.0%	6.9%	2.3%	6.1%	1.8%
Off	20.0%	17.0%	5.3%	16.5%	5.1%	2.0%	5.6%	1.8%

Has your central cooling system been inspected within the last 12 months?

Cooling System Inspection	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**16**		**124**		**346**		**486**	
No	37.5%	19.9%	55.7%	7.3%	37.3%	4.3%	42.0%	3.7%
Yes	62.5%	19.9%	44.4%	7.3%	62.7%	4.3%	58.0%	3.7%

What is the main energy source used to heat your home?

Main Heat Energy Source	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**16**		**127**		**371**		**504**	
Electricty	62.5%	19.9%	85.8%	5.1%	45.2%	4.3%	56.0%	3.6%
Natural Gas	25.0%	17.8%	11.8%	4.7%	47.1%	4.3%	37.5%	3.5%
LP	6.3%	10.0%	0.0%	0.0%	1.7%	1.1%	1.4%	0.9%
Oil/Kerosene	0.0%	0.0%	0.8%	1.3%	1.7%	1.1%	1.4%	0.9%
Wood	0.0%	0.0%	0.0%	0.0%	1.4%	1.0%	1.0%	0.7%
No System	6.3%	10.0%	0.0%	0.0%	1.4%	1.0%	1.4%	0.9%
Not Sure	0.0%	0.0%	0.8%	1.3%	1.7%	1.1%	1.4%	0.9%

Section VI: Sample Errors
Sample errors calculated at 90% confidence level

Which type of heating system do you have?

Main Electric Heat Source	Mobile Homes Saturation	Mobile Homes Error	Attached Dwelling Saturation	Attached Dwelling Error	Unattached Homes Saturation	Unattached Homes Error	All Dwellings Saturation	All Dwellings Error
n	**13**		**105**		**189**		**307**	
HP Central	61.5%	22.2%	84.8%	5.8%	82.5%	4.5%	82.4%	3.6%
HP Non- Central	0.0%	0.0%	1.9%	2.2%	0.5%	0.9%	1.0%	0.9%
Other	7.7%	12.2%	1.9%	2.2%	3.2%	2.1%	2.9%	1.6%
RH Central	30.8%	21.1%	9.5%	4.7%	12.2%	3.9%	12.1%	3.1%
RH Non-Central	0.0%	0.0%	1.0%	1.6%	0.0%	0.0%	0.3%	0.5%
RH Portable	0.0%	0.0%	1.0%	1.6%	1.6%	1.5%	1.3%	1.1%

What type of thermostat does your main heating system use?

Type of Thermostat	Mobile Homes Saturation	Mobile Homes Error	Attached Dwelling Saturation	Attached Dwelling Error	Unattached Homes Saturation	Unattached Homes Error	All Dwellings Saturation	All Dwellings Error
n	**16**		**124**		**353**		**493**	
Programmable	25.0%	17.8%	26.6%	6.5%	35.1%	3.8%	32.7%	3.5%
Standard	75.0%	17.8%	70.2%	6.8%	62.9%	3.8%	65.1%	3.5%
No Thermostat	0.0%	0.0%	3.2%	2.6%	2.0%	0.0%	2.2%	1.1%

What is the average thermostat temperature set for each time period during the heating season?

Winter Morning	Mobile Homes Saturation	Mobile Homes Error	Attached Dwelling Saturation	Attached Dwelling Error	Unattached Homes Saturation	Unattached Homes Error	All Dwellings Saturation	All Dwellings Error
n	**16**		**114**		**336**		**466**	
Below 64	6.6%	10.2%	8.8%	4.4%	6.6%	2.2%	6.9%	1.9%
65-69	43.5%	20.4%	29.0%	7.0%	43.5%	4.4%	39.5%	3.7%
70-74	38.7%	20.0%	36.0%	7.4%	38.7%	4.4%	38.4%	3.7%
Over 74	6.0%	9.7%	14.9%	5.5%	6.0%	2.1%	8.2%	2.1%
Off	5.4%	9.3%	11.4%	4.9%	5.4%	2.0%	7.1%	2.0%

Winter Day	Mobile Homes Saturation	Mobile Homes Error	Attached Dwelling Saturation	Attached Dwelling Error	Unattached Homes Saturation	Unattached Homes Error	All Dwellings Saturation	All Dwellings Error
n	**15**		**112**		**335**		**462**	
Below 64	13.3%	14.4%	9.8%	5.3%	12.2%	3.1%	11.7%	2.4%
65-69	26.7%	18.8%	26.8%	6.9%	43.0%	4.0%	38.5%	3.6%
70-74	26.7%	18.8%	27.7%	6.9%	29.9%	4.0%	29.2%	3.4%
Over 74	6.7%	10.6%	9.8%	3.9%	6.3%	2.2%	7.1%	1.9%
Off	26.7%	18.8%	25.9%	6.9%	8.7%	4.0%	13.4%	2.5%

Winter Evening	Mobile Homes Saturation	Mobile Homes Error	Attached Dwelling Saturation	Attached Dwelling Error	Unattached Homes Saturation	Unattached Homes Error	All Dwellings Saturation	All Dwellings Error
n	**15**		**111**		**337**		**466**	
Below 64	6.7%	10.6%	8.1%	4.3%	9.7%	2.6%	4.7%	1.3%
65-69	33.3%	20.0%	24.3%	6.7%	31.6%	4.2%	38.0%	2.9%
70-74	40.0%	20.8%	39.6%	7.6%	32.5%	4.2%	41.0%	2.9%
Over 74	6.7%	10.6%	12.6%	5.2%	14.9%	3.2%	8.4%	1.6%
Off	13.3%	14.4%	15.3%	5.6%	11.4%	2.8%	5.8%	1.4%

Winter Night	Mobile Homes Saturation	Mobile Homes Error	Attached Dwelling Saturation	Attached Dwelling Error	Unattached Homes Saturation	Unattached Homes Error	All Dwellings Saturation	All Dwellings Error
n	**16**		**114**		**336**		**466**	
Below 64	12.5%	13.6%	9.7%	4.5%	16.1%	3.3%	14.4%	2.7%
65-69	37.5%	19.9%	31.6%	6.8%	44.9%	4.5%	41.4%	3.8%
70-74	31.3%	19.1%	32.5%	7.3%	27.7%	4.0%	29.0%	3.5%
Over 74	6.3%	10.0%	14.9%	5.8%	4.2%	1.8%	6.9%	1.9%
Off	12.5%	13.6%	11.4%	4.9%	7.1%	2.3%	8.4%	2.1%

Section VI: Sample Errors
Sample errors calculated at 90% confidence level

What is the main energy source for water heating in your home?

	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
Main Energy - Water Heating	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**16**		**126**		**357**		**499**	
Electricity	87.5%	13.6%	84.1%	5.4%	47.6%	4.3%	58.1%	3.6%
Natural Gas	6.3%	10.0%	9.5%	4.3%	47.1%	4.3%	36.3%	3.5%
LP	0.0%	0.0%	0.8%	1.3%	1.4%	1.0%	1.2%	0.8%
Oil or Kerosene	0.0%	0.0%	0.8%	1.3%	2.0%	1.2%	0.2%	0.3%
Solar w/Gas Backup	0.0%	0.0%	0.0%	0.0%	2.0%	1.2%	1.4%	0.9%
Solar w/ Electric Backup	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
Heat Recovery w/ Elec Backup	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
Not Sure	6.3%	10.0%	4.8%	3.1%	1.4%	1.0%	2.4%	1.1%

How old is your primary water heating system?

	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
Water Heater Age	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**15**		**105**		**247**		**467**	
less than a year	0.0%	0.0%	1.0%	1.6%	6.3%	2.6%	4.9%	1.6%
1 to 3	13.3%	14.4%	15.2%	5.8%	15.9%	3.8%	15.6%	2.8%
4 to 8	40.0%	20.8%	30.5%	7.4%	35.5%	5.0%	34.5%	3.6%
9 to 13	33.3%	20.0%	21.9%	6.6%	18.7%	4.1%	19.9%	3.0%
14 to 30	13.3%	14.4%	28.6%	7.3%	20.2%	4.2%	21.8%	3.1%
Over 30	0.0%	0.0%	2.9%	2.7%	3.5%	1.9%	3.2%	1.3%

Do you have an in ground irrigation system?

	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
In Ground Irrigation	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**15**		**358**		**117**		**490**	
Yes	6.7%	10.6%	20.5%	3.5%	33.2%	7.2%	29.4%	3.4%
No	93.3%	10.6%	79.5%	3.5%	66.8%	7.2%	70.6%	3.4%

Select which days of the week you typically use your irrigation system.

	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
Days of Irrigation	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**2**		**35**		**123**		**160**	
Monday	0.0%	0.0%	14.3%	3.0%	15.5%	5.4%	15.0%	4.6%
Tuesday	0.0%	0.0%	8.6%	2.4%	11.4%	4.7%	10.6%	4.0%
Wednesday	0.0%	0.0%	17.1%	3.3%	32.5%	6.9%	28.8%	5.9%
Thursday	0.0%	0.0%	8.6%	2.4%	10.6%	4.6%	10.0%	3.9%
Friday	0.0%	0.0%	14.3%	3.0%	23.6%	6.3%	21.3%	5.3%
Saturday	0.0%	0.0%	11.4%	2.8%	23.6%	6.3%	20.6%	5.3%
Sunday	0.0%	0.0%	11.4%	2.8%	24.4%	6.4%	21.3%	5.3%
As needed	50.0%	252.7%	18.2%	3.4%	39.8%	7.3%	35.4%	6.2%

Section VI: Sample Errors
Sample errors calculated at 90% confidence level

How many of the following water saving devices are in your home?

# of Water-Saving Devices	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**16**		**126**		**359**		**501**	
1 Low Flow Showerhead	25.0%	17.8%	19.8%	5.8%	20.3%	3.5%	20.4%	3.0%
2 Low Flow Showerhead	25.0%	17.8%	9.5%	4.3%	27.3%	3.9%	22.8%	3.1%
3 Low Flow Showerhead	0.0%	0.0%	0.8%	1.3%	5.9%	2.0%	4.4%	1.5%
4 + Low Flow Showerhead	0.0%	0.0%	0.0%	0.0%	1.4%	1.0%	1.0%	0.7%
1 Faucet Aerators	12.5%	13.6%	9.5%	4.3%	10.9%	2.7%	10.6%	2.3%
2 Faucet Aerators	6.3%	10.0%	8.7%	4.1%	9.8%	2.6%	9.4%	2.1%
3 Faucet Aerators	12.5%	13.6%	6.4%	3.6%	14.2%	3.0%	12.2%	2.4%
4+ Faucet Aerators	0.0%	0.0%	3.2%	2.6%	13.9%	3.0%	10.8%	2.3%
1 Low Flow Toilets	18.8%	16.1%	13.5%	5.0%	18.7%	3.4%	17.4%	2.8%
2 Low Flow Toilets	37.5%	19.9%	10.4%	4.5%	22.0%	3.6%	19.6%	2.9%
3 Low Flow Toilets	0.0%	0.0%	1.6%	1.8%	3.1%	1.5%	2.6%	1.2%
4+ Low Flow Toilets	0.0%	0.0%	0.0%	0.0%	3.6%	1.6%	2.6%	1.2%
n	**16**		**128**		**357**		**499**	
1 Rain Sensor- in ground	0.0%	0.0%	2.4%	2.2%	10.6%	2.7%	8.2%	2.0%
2 Rain Sensor- in ground	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.3%
3 Rain Sensor- in ground	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.0%	0.0%
4+ Rain Sensor- in ground	0.0%	0.0%	0.0%	0.0%	0.6%	0.6%	0.4%	0.5%
n	**15**		**125**		**352**		**492**	
No water saving device	40.0%	20.8%	44.0%	7.3%	22.2%	3.6%	28.3%	20.8%

Section VI: Sample Errors
Sample errors calculated at 90% confidence level

How many of the following appliances do you use in your home?

Appliances	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**16**		**128**		**362**		**506**	
1 Washer	0.0%	0.0%	14.3%	5.1%	15.5%	3.1%	15.0%	2.6%
2 Washer	0.0%	0.0%	8.6%	4.1%	11.4%	2.7%	10.6%	2.3%
1 Dryer (electric)	0.0%	0.0%	17.1%	5.5%	32.5%	4.1%	28.8%	3.3%
2 Dryer (electric)	0.0%	0.0%	8.6%	4.1%	10.6%	2.7%	10.0%	2.2%
Dryer (gas)	0.0%	0.0%	14.3%	5.1%	23.6%	3.7%	21.3%	3.0%
Well Pump	0.0%	0.0%	11.4%	4.6%	23.6%	3.7%	20.6%	3.0%
Pool Pump	0.0%	0.0%	11.4%	4.6%	24.4%	3.7%	21.3%	3.0%
Pool Heater (electric)	50.0%	20.6%	18.2%	5.6%	39.8%	4.2%	35.4%	3.5%
Pool Heater (gas)	0.0%	0.0%	0.8%	1.3%	1.9%	1.2%	1.6%	0.9%
Pool Heater (solar)	0.0%	0.0%	0.8%	1.3%	3.9%	1.7%	3.0%	1.2%
Hot Tub (electric- heater)	0.0%	0.0%	1.6%	1.8%	5.5%	2.0%	4.4%	1.5%
1 Hot Tub (gas- heater)	0.0%	0.0%	1.6%	1.8%	3.9%	1.7%	3.2%	1.3%
2 Hot Tub (gas- heater)	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
3 Hot Tub (gas- heater)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
4+ Hot Tub (gas- heater)	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
Dishwasher- (electric)	43.8%	20.4%	58.6%	7.2%	72.1%	3.9%	67.8%	3.4%
1 Ceiling Fans	31.3%	19.1%	32.0%	6.8%	29.8%	4.0%	30.4%	3.4%
2 Ceiling Fans	18.8%	16.1%	14.1%	5.1%	9.4%	2.5%	10.9%	2.3%
3 Ceiling Fans	18.8%	16.1%	16.4%	5.4%	11.6%	2.8%	13.0%	2.5%
4 Ceiling Fans	12.5%	13.6%	14.1%	5.1%	40.3%	4.2%	32.8%	3.4%
1 Attic House Fan	12.5%	13.6%	3.9%	2.8%	12.4%	2.9%	10.3%	2.2%
2 Attic House Fan	0.0%	0.0%	0.8%	1.3%	3.0%	1.5%	2.4%	1.1%
3 Attic House Fan	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
4 Attic House Fan	0.0%	0.0%	0.0%	0.0%	0.6%	0.6%	0.4%	0.5%
1 Refrigerator/Freezer	93.8%	10.0%	82.8%	5.5%	76.0%	3.7%	78.3%	3.0%
2 Refrigerator/Freezer	0.0%	0.0%	6.3%	3.5%	14.9%	3.1%	12.3%	2.4%
3 Refrigerator/Freezer	0.0%	0.0%	0.8%	1.3%	0.6%	0.6%	0.6%	0.6%
4 Refrigerator/Freezer	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
1 Refrigerators (stand alone)	12.5%	13.6%	10.2%	4.4%	13.5%	3.0%	12.7%	2.4%
2 Refrigerators (stand alone)	0.0%	0.0%	0.0%	0.0%	1.4%	1.0%	1.0%	0.7%
1 Freezers (stand alone)	12.5%	13.6%	11.7%	4.7%	29.8%	4.0%	24.7%	3.2%
2 Freezers (stand alone)	0.0%	0.0%	0.0%	0.0%	0.6%	0.6%	0.4%	0.5%
3 Freezers (stand alone)	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
4 Freezers (stand alone)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
n	**16**		**128**		**361**		**505**	
1 Home Theatres	12.5%	13.6%	15.6%	5.3%	10.8%	2.7%	12.1%	2.4%
2 Home Theatres	0.0%	0.0%	2.3%	2.2%	1.1%	0.9%	1.4%	0.9%
3 Home Theatres	0.0%	0.0%	0.8%	1.3%	0.3%	0.5%	0.4%	0.5%
n	**16**		**128**		**362**		**506**	
1 Sound System	25.0%	17.8%	25.8%	6.4%	30.9%	4.0%	29.5%	3.3%
2 Sound Systems	6.3%	10.0%	0.8%	1.3%	2.2%	1.3%	2.0%	1.0%
3 Sound Systems	0.0%	0.0%	0.8%	1.3%	0.3%	0.5%	0.4%	0.5%
4 Sound Systems	0.0%	0.0%	0.8%	1.3%	0.8%	0.8%	0.8%	0.6%
1 Large Screen T.V.	6.3%	10.0%	14.1%	5.1%	25.4%	3.8%	21.9%	3.0%
2 Large Screen T.V.	0.0%	0.0%	0.8%	1.3%	0.8%	0.8%	0.8%	0.6%
3 Large Screen T.V.	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
4 Large Screen T.V.	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
1 Standard Screen T.V.	37.5%	19.9%	49.2%	7.3%	41.4%	4.3%	43.3%	3.6%
2 Standard Screen T.V.	12.5%	13.6%	19.5%	5.8%	23.2%	3.6%	21.9%	3.0%
3 Standard Screen T.V.	25.0%	17.8%	7.8%	3.9%	12.7%	2.9%	11.9%	2.4%
4 Standard Screen T.V.	6.3%	10.0%	3.9%	2.8%	9.1%	2.5%	7.7%	2.0%
1 Personal Computer	37.5%	19.9%	53.9%	7.2%	53.0%	4.3%	52.8%	3.7%
2 Personal Computer	6.3%	10.0%	11.7%	4.7%	19.9%	3.5%	17.4%	2.8%
3 Personal Computer	0.0%	0.0%	3.9%	2.8%	4.4%	1.8%	4.2%	1.5%
4 Personal Computer	0.0%	0.0%	2.3%	2.2%	3.3%	1.5%	3.0%	1.2%
1 Exterior Light	0.0%	0.0%	16.4%	5.4%	16.6%	3.2%	16.0%	2.7%
2 Exterior Light	6.3%	10.0%	3.9%	2.8%	6.1%	2.1%	5.5%	1.7%
3 Exterior Light	6.3%	10.0%	0.0%	0.0%	1.4%	1.0%	1.2%	0.8%
4 Exterior Light	0.0%	0.0%	0.0%	0.0%	1.9%	1.2%	1.4%	0.9%
1 Fixture- Motion Detectors	6.3%	10.0%	14.8%	5.2%	20.4%	3.5%	18.6%	2.8%
2 Fixture- Motion Detectors	6.3%	10.0%	1.6%	1.8%	8.6%	2.4%	6.7%	1.8%
3 Fixture- Motion Detectors	0.0%	0.0%	0.0%	0.0%	2.8%	1.4%	2.0%	1.0%
4 Fixture- Motion Detectors	0.0%	0.0%	1.6%	1.8%	3.6%	1.6%	3.0%	1.2%

Section VI: Sample Errors
Sample errors calculated at 90% confidence level

Please indicate if you have added, removed or replaced any of the following appliances?

Appliances A=Addded, Rem=Removed, Rep=Replaced	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**16**		**128**		**362**		**506**	
A: Central heat pump	0.0%	0.0%	1.6%	1.8%	1.4%	1.0%	1.4%	0.9%
Rem: Central heat pump	0.0%	0.0%	1.6%	1.8%	0.6%	0.6%	0.8%	0.6%
Rep: Central heat pump	0.0%	0.0%	31.3%	6.7%	5.8%	2.0%	4.9%	1.6%
A: Central heat-(electric)	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
Rem: Central heat-(electric)	0.0%	0.0%	2.3%	2.2%	0.0%	0.0%	0.6%	0.6%
Rep: Central heat-(electric)	0.0%	0.0%	0.8%	1.3%	1.9%	1.2%	1.6%	0.9%
A: Central heat-gas	0.0%	0.0%	1.6%	1.8%	1.7%	1.1%	1.6%	0.9%
Rem: Central heat-gas	0.0%	0.0%	1.6%	1.8%	0.0%	0.0%	0.4%	0.5%
Rep: Central heat-gas	0.0%	0.0%	0.0%	0.0%	1.9%	1.2%	1.4%	0.9%
A: Central heat (other heat)	0.0%	0.0%	0.0%	0.0%	0.6%	0.6%	0.4%	0.5%
Rem: Central heat (other heat)	0.0%	0.0%	1.6%	1.8%	0.0%	0.0%	0.4%	0.5%
Rep: Central heat (other heat)	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
A: Central cool(heat pump)	6.3%	10.0%	0.0%	0.0%	1.1%	0.9%	1.0%	0.7%
Rem: Central cool(heat pump)	0.0%	0.0%	1.6%	1.8%	0.3%	0.5%	0.6%	0.6%
Rep: Central cool(heat pump)	0.0%	0.0%	3.1%	2.5%	4.1%	1.7%	1.0%	0.7%
A: Central cool(electric)	0.0%	0.0%	0.8%	1.3%	1.4%	1.0%	1.2%	0.8%
Rem: Central cool(electric	0.0%	0.0%	1.6%	1.8%	0.0%	0.0%	0.4%	0.5%
Rep: Central cool(electric	0.0%	0.0%	3.9%	2.8%	3.0%	1.5%	3.2%	1.3%
A: Window/wall/room AC	0.0%	0.0%	0.8%	1.3%	1.9%	1.2%	1.6%	0.9%
Rem: Window/wall/room AC	0.0%	0.0%	1.6%	1.8%	0.3%	0.5%	0.6%	0.6%
Rep: Window/wall/room AC	0.0%	0.0%	0.8%	1.3%	1.1%	0.9%	1.0%	0.7%
A: Water heater (electric)	0.0%	0.0%	0.8%	1.3%	1.7%	1.1%	1.4%	0.9%
Rem: Water heater (electric)	0.0%	0.0%	1.6%	1.8%	0.3%	0.5%	0.6%	0.6%
Rep: Water heater (electric)	12.5%	13.6%	1.6%	1.8%	2.8%	1.4%	2.8%	1.2%
A: Water heater (gas)	6.3%	10.0%	0.0%	0.0%	1.9%	1.2%	1.6%	0.9%
Rem: Water heater (gas)	0.0%	0.0%	1.6%	1.8%	0.3%	0.5%	0.6%	0.6%
Rep: Water heater (gas)	0.0%	0.0%	0.0%	0.0%	2.8%	1.4%	1.4%	0.9%
A: Water heater (solar)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Rem: Water heater (solar)	0.0%	0.0%	1.6%	1.8%	0.0%	0.0%	0.4%	0.5%
Rep: Water heater (solar)	0.0%	0.0%	0.8%	1.3%	0.3%	0.5%	0.4%	0.5%
A: Water heater- heat recovery	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
Rem: Water heater- heat recovery	0.0%	0.0%	1.6%	1.8%	0.0%	0.0%	0.4%	0.5%
Rep: Water heater- heat recovery	0.0%	0.0%	1.6%	1.8%	0.0%	0.0%	0.4%	0.5%
n	16		128		361		505	
A: Dishwasher	0.0%	0.0%	7.8%	3.9%	3.3%	1.6%	2.6%	1.2%
Rem: Dishwasher	0.0%	0.0%	1.6%	1.8%	0.3%	0.5%	0.6%	0.6%
Rep: Dishwasher	0.0%	0.0%	7.0%	3.7%	7.5%	2.3%	7.1%	1.9%
n	16		128		362		506	
A: Clothes washer	6.3%	10.0%	1.6%	1.8%	2.2%	1.3%	2.2%	1.1%
Rem: Clothes washer	0.0%	0.0%	2.3%	2.2%	0.0%	0.0%	0.6%	0.6%
Rep: Clothes washer	12.5%	13.6%	5.5%	3.3%	10.2%	2.6%	9.1%	2.1%
n	16		128		360		504	
A: Clothes dryer	6.3%	10.0%	0.0%	0.0%	3.1%	1.5%	3.2%	1.3%
Rem: Clothes dryer	0.0%	0.0%	1.6%	1.8%	0.6%	0.6%	0.8%	0.6%
Rep: Clothes dryer	12.5%	13.6%	6.3%	3.5%	8.6%	2.4%	8.1%	2.0%
n	16		128		362		506	
A: Pool heater	0.0%	0.0%	0.0%	0.0%	0.6%	0.6%	0.4%	0.5%
Rem: Pool heater	0.0%	0.0%	1.6%	1.8%	0.0%	0.0%	0.4%	0.5%
Rep: Pool heater	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
Add: Pool pump	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
Rem: Pool pump	0.0%	0.0%	1.6%	1.8%	0.3%	0.5%	0.6%	0.6%
Rep: Pool pump	0.0%	0.0%	0.8%	1.3%	2.5%	1.3%	2.0%	1.0%
A: Hot tub	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
Rem: Hot tub	0.0%	0.0%	1.6%	1.8%	0.3%	0.5%	0.6%	0.6%
Rep: Hot tub	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
A: Large Screen TV	0.0%	0.0%	3.1%	2.5%	2.2%	1.3%	2.4%	1.1%
Rem: Large Screen TV	0.0%	0.0%	1.6%	1.8%	0.0%	0.0%	0.4%	0.5%
Rep: Large Screen TV	0.0%	0.0%	1.6%	1.8%	0.8%	0.8%	1.0%	0.7%
n	14		112		322		448	
Nothing A, Rem or Rep	50.0%	20.6%	58.9%	7.2%	50.9%	4.3%	52.9%	3.7%

Section VI: Sample Errors
Sample errors calculated at 90% confidence level

What type of internet service do you currently use in your home?

	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
Type of Service	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**10**		**114**		**362**		**454**	
Dial- up	40.0%	25.5%	17.5%	5.9%	28.2%	3.9%	25.8%	3.2%
Cable	20.0%	20.8%	40.4%	7.6%	35.8%	4.1%	36.6%	3.5%
DSL	0.0%	0.0%	29.8%	7.0%	25.8%	3.8%	26.2%	3.2%
None	40.0%	25.5%	11.4%	4.9%	9.7%	2.6%	10.8%	2.3%
Other	0.0%	0.0%	0.9%	1.4%	0.6%	0.7%	0.7%	0.6%

What is the primary language spoken in your home?

	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
Primary Language	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**16**		**126**		**123**		**160**	
Arabic	0.0%	0.0%	0.0%	0.0%	0.6%	0.9%	0.4%	0.8%
Chinese	0.0%	0.0%	0.0%	0.0%	0.3%	0.6%	0.2%	0.6%
Dutch	0.0%	0.0%	0.0%	0.0%	0.3%	0.6%	0.2%	0.6%
English	100.0%	0.0%	95.2%	3.1%	96.1%	2.2%	96.0%	2.5%
Farsi	0.0%	0.0%	0.8%	1.3%	0.3%	0.6%	0.4%	0.8%
French	0.0%	0.0%	0.0%	0.0%	0.3%	0.6%	0.2%	0.6%
Italian	0.0%	0.0%	1.6%	1.8%	0.0%	0.0%	0.4%	0.8%
Korean	0.0%	0.0%	0.8%	1.3%	0.0%	0.0%	0.2%	0.6%
Other	0.0%	0.0%	0.8%	1.3%	0.3%	0.6%	0.4%	0.8%
Portugeses	0.0%	0.0%	0.0%	0.0%	0.3%	0.6%	0.2%	0.6%
Spanish	0.0%	0.0%	0.8%	1.3%	1.1%	1.2%	1.0%	1.3%
Thai	0.0%	0.0%	0.8%	1.3%	0.3%	0.6%	0.2%	0.6%
Vietnamese	0.0%	0.0%	0.8%	1.3%	0.3%	0.6%	0.2%	0.6%

How many persons live in your household in each of the following age groups?

Age of Occupants	lobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
n	**16**		**126**		**359**		**501**	
Age 0-4	12.5%	13.6%	7.9%	4.0%	7.0%	2.2%	92.4%	1.9%
Age 5-17	25.0%	17.8%	9.5%	4.3%	20.1%	443.0%	5.6%	1.7%
Age 18- 34	25.0%	17.8%	54.8%	7.3%	27.9%	35.0%	0.8%	0.7%
Age 35- 64	56.3%	20.4%	33.3%	6.9%	64.6%	132.9%	0.4%	0.5%
Age 65+	56.3%	20.4%	21.4%	6.0%	34.0%	67.6%	0.6%	0.6%

Will you be moving out of the Gainesville area within the next 12 months?

Moving out of Gainesville	lobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
n	**16**		**126**		**359**		**501**	
Yes	0.0%	0.0%	12.9%	4.9%	3.1%	1.5%	0.5%	0.5%
No	68.8%	19.1%	71.0%	6.7%	87.5%	445.4%	82.8%	2.8%
Unsure	31.3%	19.1%	16.1%	5.4%	9.5%	22.8%	11.8%	2.4%

Section VI: Sample Errors
Sample errors calculated at 90% confidence level

What is the highest degree or level of school completed by the adults in your home?

	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
Level of Education	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**10**		**125**		**362**		**500**	
1 Adult	12.5%	17.2%	7.2%	3.8%	4.2%	1.7%	5.2%	1.6%
2 Adults	0.0%	0.0%	0.0%	0.0%	1.7%	1.1%	1.2%	0.8%
3 Adults	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
4 Adults	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
5 Adults	6.3%	12.6%	0.8%	1.3%	0.0%	0.0%	0.4%	0.5%
High school grad or equal								
1 Adult	37.5%	25.2%	13.6%	5.0%	14.5%	3.0%	15.0%	2.6%
2 Adults	25.0%	22.5%	6.4%	3.6%	7.0%	2.2%	7.4%	1.9%
3 Adults	0.0%	0.0%	1.6%	1.8%	2.0%	1.2%	1.8%	1.0%
4 Adults	0.0%	0.0%	0.8%	1.3%	0.6%	0.6%	0.6%	0.6%
5 Adults	6.3%	12.6%	0.0%	0.0%	0.3%	0.5%	0.4%	0.5%
Some college, no degree								
1 Adult	18.8%	20.3%	19.2%	5.8%	22.6%	3.6%	21.6%	3.0%
2 Adults	25.0%	22.5%	5.6%	3.4%	5.6%	2.0%	6.2%	1.8%
3 Adults	0.0%	0.0%	1.6%	1.8%	1.1%	0.9%	1.2%	0.8%
4 Adults	0.0%	0.0%	0.8%	1.3%	0.6%	0.6%	0.6%	0.6%
5 Adults	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Associate's Degree								
1 Adult	12.5%	17.2%	11.2%	4.6%	14.8%	3.1%	13.8%	2.5%
2 Adults	6.3%	12.6%	2.4%	2.3%	5.3%	1.9%	4.6%	1.5%
3 Adults	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
4 Adults	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
5 Adults	0.0%	0.0%	0.8%	1.3%	0.0%	0.0%	0.2%	0.3%
Bachelor's Degree								
1 Adult	0.0%	0.0%	28.0%	6.6%	27.9%	3.9%	27.0%	3.3%
2 Adults	6.3%	12.6%	8.0%	4.0%	10.0%	2.6%	9.4%	2.1%
3 Adults	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
4 Adults	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
5 Adults	0.0%	0.0%	0.8%	1.3%	0.0%	0.0%	0.2%	0.3%
Master's Degree								
1 Adult	0.0%	0.0%	20.8%	6.0%	21.2%	3.5%	20.4%	3.0%
2 Adults	0.0%	0.0%	2.4%	2.3%	4.5%	1.8%	3.8%	1.4%
3 Adults	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
4 Adults	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
5 Adults	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%
Professional Degree								
1 Adult	6.3%	12.6%	6.4%	3.6%	8.4%	2.4%	7.8%	2.0%
2 Adults	0.0%	0.0%	0.8%	1.3%	2.2%	1.3%	1.8%	1.0%
3 Adults	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
4 Adults	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
5 Adults	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Doctrate Degree								
1 Adult	0.0%	0.0%	6.4%	3.6%	9.2%	2.5%	8.2%	2.0%
2 Adults	0.0%	0.0%	0.0%	0.0%	2.5%	1.4%	1.8%	1.0%
3 Adults		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
4 Adults	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
5 Adults	0.0%	0.0%	0.0%	0.0%	0.3%	0.5%	0.2%	0.3%

What is the total family income for your home?

	Mobile Homes		Attached Dwelling		Unattached Homes		All Dwellings	
Income	Saturation	Error	Saturation	Error	Saturation	Error	Saturation	Error
n	**16**		**117**		**338**		**471**	
Less than $10,000	18.8%	16.1%	15.4%	5.5%	3.0%	1.5%	6.6%	1.9%
$10,000 to $14,999	12.5%	13.6%	9.4%	4.3%	5.3%	2.0%	6.6%	1.9%
$15,000 to $24,999	37.5%	19.9%	13.7%	5.1%	10.4%	2.7%	12.1%	2.5%
$25,000 to $34,999	12.5%	13.6%	24.8%	6.4%	11.8%	2.9%	15.1%	2.7%
$35,000 to $49,999	6.3%	10.0%	12.8%	4.9%	15.4%	3.2%	14.4%	2.7%
$50,000 to $74,999	12.5%	13.6%	12.0%	4.8%	21.6%	3.7%	18.9%	3.0%
$75,000 to $99,999	0.0%	0.0%	6.8%	3.7%	12.4%	3.0%	10.6%	2.3%
$100,000 to $149,999	0.0%	0.0%	4.3%	3.0%	11.2%	2.8%	9.1%	2.2%
$150,000+	0.0%	0.0%	0.9%	1.4%	8.9%	2.5%	6.6%	1.9%

Section VII: Survey Instrument

Customer Energy Planning Study 2006

Dear Family Bill-Payer:

As fuel costs remain high, families throughout Gainesville are looking for ways to reduce home energy expenses. GRU and the City of Gainesville are developing ways to help you save energy, but we need your help. We are asking you to complete a 15 minute survey about your home appliances and features. Your honest answers to these questions will help GRU plan to meet the growing needs of Gainesville and help you and other customers save energy and money.

It is very important that we receive your completed survey by Friday, May 26, 2006. A postage-paid reply envelope is included with this survey. Please return only your completed survey in this envelope, and do not include your bill payment. To thank you for your participation in this study, we will credit your GRU account $5 upon receipt of the completed survey.

If you have any questions about this energy survey, please contact David Barclay in GRU's Planning Department at (352) 393-1296. Thank you for completing this survey and helping us plan for your future energy needs.

Sincerely

Pegeen Hanrahan

Pegeen Hanrahan
Mayor, City of Gainesville

GRU℠
More than Energy™

Your participation is important

The survey should take between 10 and 15 minutes to complete depending on your familiarity with your home and its major appliances.

Please fill out the survey by placing a check mark in the appropriate boxes or by filling in the proper line. Do your best to answer all of the questions. If you do not know the answer to a question, please move onto the next question.

When you are finished, please return the survey in the enclosed postage-paid reply envelope to the address below:

P.O. Box 147117, Station A136
301 S.E. 4th Avenue
Gainesville, FL 32614-7117

Please return only your completed survey in this envelope, and **do not** include your bill payment.

Thank you in advance for helping us better plan for the future. If you would like help completing the survey or have questions related to it, please contact me at (352) 393-1296.

Thank you for participating.

David Barclay
Survey Coordinator

Directions: Answer each question by making a check mark (√) in the appropriate boxes or by filling in the proper line.

YOUR HOME

1. Home ownership.

   - ☐ Renting
   - ☐ Own (or buying)
   - ☐ Not sure

2. Type of structure.

   - ☐ Multi-family dwelling with 4 units or less
   - ☐ Multi-family dwelling with 5 units or more
   - ☐ Manufactured house/mobile home
   - ☐ Single family home

3. What is the estimated age of your home?

   - ☐ 4 years or less
   - ☐ 5 to 9 years
   - ☐ 10 to 19 years
   - ☐ 20 to 35 years
   - ☐ 36 years or more

4. How many square feet of living area are there in your home, including bathrooms and hallways? (Do not include garages, patios and porches.)

   - ☐ 0-499
   - ☐ 500-999
   - ☐ 1,000-1,499
   - ☐ 1,500-1,999
   - ☐ 2,000-2,499
   - ☐ 2,500-2,999
   - ☐ 3,000-3,999
   - ☐ 4,000 or more

5. Which of the following utility services, if any, are included in your rent or homeowners fee?

   - ☐ Electric
   - ☐ Water
   - ☐ Natural Gas
   - ☐ Not sure
   - ☐ No utility services are included

YOUR AIR CONDITIONING SYSTEM

1. Describe the main type of air conditioning system used to cool your home? (select one)

Heat pump air conditioning
(Outdoor unit operates in heating and cooling modes)

- ☐ Central system
- ☐ Window/wall/room unit(s)

Standard electric air conditioning

- ☐ Central system
- ☐ Window/wall/room unit(s)
- ☐ Other _____

2. What type of thermostat does your main cooling system use?

   - ☐ Programmable thermostat (Digital units usually have a digital readout and buttons.)
   - ☐ Standard thermostat (Allows you to set the temperature and turn the heater on or off. You cannot set on/off times.)
   - ☐ No thermostat (simple on/off control) If no thermostat, please skip to question 4).

3. If your main cooling system is controlled by a thermostat, what is the average thermostat temperature usually set for each time period during the ***cooling season***?

	Below 73 F	73-76F	77-80F	Over 80F	Off
Morning (6am-9am)	☐	☐	☐	☐	☐
Day (9am-5pm)	☐	☐	☐	☐	☐
Evening (5pm-9pm)	☐	☐	☐	☐	☐
Night (9pm-6am)	☐	☐	☐	☐	☐

4. Has an air conditioning professional inspected or performed maintenance on your central cooling system within the last 12 months?

   - ☐ Yes
   - ☐ No

YOUR HEATING SYSTEM

1. What is the main energy source used to heat your home? (select one)

- ☐ Electricity
- ☐ Natural gas
- ☐ LP (liquid propane)
- ☐ Oil or kerosene
- ☐ Wood
- ☐ Do not have home heating system
- ☐ Not sure

2. If the main energy source used to heat your home is electricity, which type of heating system do you have? (select one)

Heat pump heating:
(Outdoor unit operates in heating and cooling modes)

- ☐ Central air to air heat pump
- ☐ Non-central heat pump (window or wall unit)

Resistance or "strip" heating:
(Outdoor unit does not operate in heating mode)

- ☐ Central resistance heating system
- ☐ Permanent, non-central resistance heater(s)
- ☐ Portable resistance heater(s)
- ☐ Other

3. What type of thermostat does your main heating system use?

- ☐ Programmable thermostat (Allows you to set on/off times.)
- ☐ Standard thermostat (Allows you to set the temperature and turn the heater on or off. You cannot set on/off times.)
- ☐ No thermostat (simple on/off control) (If no thermostat, please skip question 4 and move to the water heating section)

4. If your main heating system is controlled by a thermostat, what is the average thermostat temperature usually set for each time period during the ***heating season***?

	Below 64F	65-69F	70-74F	Over 74F	Off
Morning (6am-9am)	☐	☐	☐	☐	☐
Day (9am-5pm)	☐	☐	☐	☐	☐
Evening (5pm-9pm)	☐	☐	☐	☐	☐
Night (9pm-6am)	☐	☐	☐	☐	☐

WATER HEATING

1. What is the main energy source for water heating in your home? (select one)

- ☐ Electricity
- ☐ Natural gas
- ☐ LP (liquid propane) gas
- ☐ Oil or kerosene
- ☐ Solar with gas backup
- ☐ Solar with electric backup
- ☐ Heat recovery unit with electric backup
- ☐ Other (_____)
- ☐ Not sure

2. How old is your primary water heating system?

- ☐ Less than one year
- ☐ 1-3 yrs
- ☐ 4-8 yrs
- ☐ 9-13 yrs
- ☐ 14-30 yrs
- ☐ Over 30 yrs

USES OF WATER/WATER CONSERVATION

1. Do you have an in-ground irrigation system?

☐ Yes ☐ No

If yes, please select which days of the week you typically use your irrigation system. (Select all that apply)

Monday ☐ Wednesday ☐ Friday ☐ Sunday
Tuesday ☐ Thursday ☐ Saturday ☐ Only as needed

2. How many of the following water saving devices are in your home? (select all that apply)

	1	2	3	4 or more
Low flow showerhead	☐	☐	☐	☐
Faucet aerators	☐	☐	☐	☐
Low-flow toilets	☐	☐	☐	☐
Rain sensor for in-ground irrigation system	☐	☐	☐	☐
Other (specify_____)	☐	☐	☐	☐
No water saving devices	☐			

HOME APPLIANCES

1. How many of the following appliances do you use in your home? (select all that apply)

	1	2	3	4 or more
Clothes washer	☐	☐	☐	☐
Clothes dryer electric	☐	☐	☐	☐
Clothes dryer natural or LP gas	☐	☐	☐	☐
Well pump	☐	☐	☐	☐
Swimming pool pump	☐	☐	☐	☐
Pool heater electric	☐	☐	☐	☐
Pool heater natural or LP gas	☐	☐	☐	☐
Pool heater solar	☐	☐	☐	☐
Hot tub heater electric	☐	☐	☐	☐
Hot tub heater natural or LP gas	☐	☐	☐	☐
Electric dishwasher	☐	☐	☐	☐
Ceiling fans	☐	☐	☐	☐
Attic/Whole house fans	☐	☐	☐	☐
Refrigerator / freezer combo	☐	☐	☐	☐
Stand alone refrigerators	☐	☐	☐	☐
Stand alone freezers	☐	☐	☐	☐
Home theatre	☐	☐	☐	☐
Sound system	☐	☐	☐	☐
Large screen television (>36 inches)	☐	☐	☐	☐
Standard television (<36 inches)	☐	☐	☐	☐
Personal computers	☐	☐	☐	☐
Exterior lights on dusk- to- dawn	☐	☐	☐	☐
Fixtures on motion detectors	☐	☐	☐	☐
Other _____	☐	☐	☐	☐

2. Please indicate if you have ***added, replaced or removed*** any of the following appliances in the past 12 months. (Choose all that apply.)

Appliance	Added a new unit	Replaced old unit	Removed and did not replace
Central heating (heat pump)	☐	☐	☐
Central heating (electric resistance "strip heat")	☐	☐	☐
Central heating (natural gas or propane)	☐	☐	☐
Other heating (wood, oil, etc.)	☐	☐	☐
Central cooling (heat pump)	☐	☐	☐
Central cooling (standard electric)	☐	☐	☐
Window/ wall/ room air conditioner	☐	☐	☐
Water heater (electric)	☐	☐	☐
Water heater (natural gas or propane)	☐	☐	☐
Water heater (solar)	☐	☐	☐
Water heater (heat recovery)	☐	☐	☐
Dishwasher	☐	☐	☐
Clothes washer	☐	☐	☐
Clothes dryer	☐	☐	☐
Pool heater	☐	☐	☐
Pool pump	☐	☐	☐
Hot tub	☐	☐	☐
Large Screen television (>36 inches)	☐	☐	☐

☐ Have not added, replaced or removed any of the above appliances

3. What type of internet service do you currently use in your home?

- ☐ Dial up
- ☐ Cable
- ☐ DSL
- ☐ Other _____

DEMOGRAPHIC INFORMATION

1. What is the primary language spoken in your home?

- ☐ English
- ☐ Spanish
- ☐ Other _____

2. How many persons live in your household in each of the following age groups?

Ages	1	2	3	4	5 or more
0 to 4	☐	☐	☐	☐	☐
5-17	☐	☐	☐	☐	☐
18-34	☐	☐	☐	☐	☐
35-64	☐	☐	☐	☐	☐
65+	☐	☐	☐	☐	☐

3. Will you be moving out of the Gainesville area within the next 12 months?

☐ Yes ☐ No ☐ Unsure

4. What is the highest degree or level of school completed by adults (age 18 or older) living in your home? (Please select one for each adult living in the home. If the adult is currently enrolled mark the previous grade or highest degree obtained.)

Adult(s)	1	2	3	4	5
Did not graduate high school	☐	☐	☐	☐	☐
High school graduate or equivalent	☐	☐	☐	☐	☐
Some college credit, no degree	☐	☐	☐	☐	☐
Associate's Degree	☐	☐	☐	☐	☐
Bachelor's Degree	☐	☐	☐	☐	☐
Master's Degree	☐	☐	☐	☐	☐
Professional Degree (MD, DDS, DVM)	☐	☐	☐	☐	☐
Doctorate Degree (Ph D, Ed D)	☐	☐	☐	☐	☐

5. We realize that family income is a personal and sensitive matter. However, family income is an important factor in determining how much electric energy a family might use. Because of this, we would like for you to supply this information by placing a check in the box that approximates the total annual income for your household.

- ☐ Less than $10,000
- ☐ $10,000 - $14,999
- ☐ $15,000 - $24,999
- ☐ $25,000 - $34,999
- ☐ $35,000 - $49,999
- ☐ $50,000 - $74,999
- ☐ $75,000 – $99,999
- ☐ $100,000 - $149,999
- ☐ $150,000 or more

Additional Comments: