



LivingWise Program brought to you by:



RESOURCE ACTION PROGRAMS®

LivingWise 2008 Program Summary Report

The LivingWise® Program

Sponsored by:



Program Summary Report 2007-2008

Submitted By:

Resource Action Programs®



August 2008

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This report summarizes the 2007-2008 LivingWise Program which was requested and implemented by teachers in Mission Springs Water District service territory. The program was used by three hundred eleven (311) sixth grade students and their families, and was jointly funded by Mission Springs Water District, Southern California Edison, and Southern California Gas Company.

LivingWise is a fully implemented, multi-resource efficiency/education program which successfully addresses the California Urban Water Council (CUWCC) Best Management Practices (BMPs) and California Public Utilities Commission (CPUC) requirements. The combination of education, measure installation, and tracking formed the basis of the “As Least As Effective As” certification by the CUWCC in 2001 to satisfy BMPs 1, 2, 7, and 8. The Program also meets CPUC goals of collaboration between energy and water utilities, and coordination of resource conservation messaging to consumers.

The Program delivered a proven blend of teacher-designed classroom activities with hands-on home projects to install high efficiency devices and introduce resource conscious behavior to students and their families. Both educational studies and utility evaluations have confirmed the importance of utilizing the various learning styles to maximize both

learning and the adoption of new behaviors. The most critical elements of this approach are not only the actual use of the new behavior, but also the reporting function which provides a crucial reinforcement of the learning process while increasing participation and the persistence of the impacts. An overview of the results from the Program appears below, with greater detail in the attached report.

“...the program is good because kids learn how to save energy and water.”

**Veronica Rodriguez, Parent
Desert Springs Middle School**



As part of the program, students receive a kit full of high efficiency devices.

Participant Satisfaction: A significant element of a successful Program is participant satisfaction. Students, Teachers and parents are all asked to evaluate the program and add additional comments. Responses were unanimously positive and reveal a high level of parent involvement in the activities. Specifically:

- **100% of participating teachers indicated they would conduct the Program again given the opportunity.**
- **100% of participating teachers indicated they would recommend this program to other colleagues.**

(A summary of responses can be found in Appendix C)

Knowledge Gained (BMP 7): Identical surveys (tests) were taken by students prior to the Program and again upon its completion to measure knowledge gained. Scores and subject knowledge improved from **62% to 87%**.

Audit Data Obtained (BMP 1): Home audits were performed by students and their families, collecting household demographic and usage data along with program participation information.

- **80% reported they worked with their family on the Program.**
- **70% reported they changed the way they use water.**
- **72% reported they changed the way they use energy.**

(A summary of responses can be found in Appendix B)

Measures Installed (BMP 2): Students completed retrofit activities as part of the Program, and reported the measures they installed in their own homes. Specifically:

- **42% reported they intalled the new high efficiency showerhead.**
- **34% reported they intalled the new bathroom aerator.**

(A summary of responses can be found in Appendix B)

Community Visibility (BMP 8): School presentations were conducted by LivingWise staff, providing information on Mission Springs Water District along with program introduction to participants and guests from the community.

Water and Energy Savings Results: The Program successfully met the cost-effectiveness requirements of all participating utilities. Student reporting activities not only provided the data used in savings projections, but also reinforced the learning benefits.

Projected Water and Energy Savings

(A list of assumptions and formulas used for these calculations can be found in Appendix A)

Projected Annual Savings

2,361,112 gallons of water saved
10,463 therms of gas saved
96,360 kWh electricity saved
2,361,112 gallons wastewater saved

Projected Ten Year Savings

21,340,820 gallons of water saved
94,573 therms of gas saved
830,391 kWh electricity saved
21,340,820 gallons wastewater saved

Projected Average Annual Savings per Home

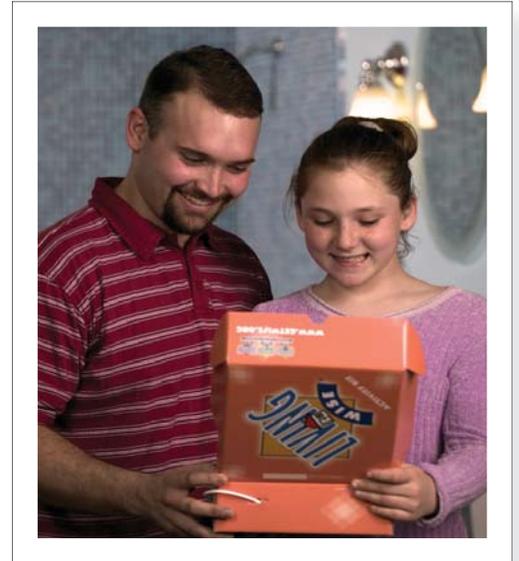
7,592 gallons of water saved
34 therms of gas saved
310 kWh electricity saved
7,592 gallons wastewater saved

Projected Average Ten Year Savings per Home

68,620 gallons of water saved
304 therms of gas saved
2,670 kWh electricity saved
68,620 gallons wastewater saved

For more than fourteen years, Resource Action Programs (RAP) has designed and implemented resource efficiency and education programs – changing household energy and water use while delivering significant, measurable resource savings for program sponsors. All RAP programs feature a proven blend of innovative education, comprehensive implementation services, and hands-on activities to put new knowledge to work in participants' homes.

RAP Programs serve more than 150,000 households each year through elementary school, middle school and adult programs. Our forty person staff manages the implementation process and program oversight for nearly 200 individual programs annually. Recognized nationally as a leader in water and energy efficiency education and program design, RAP has a strong reputation for providing an unusual level of client service to its sponsors as part of a wide range of conservation and resource efficiency solutions for municipalities, utilities, states, community agencies and corporations.



RAP Programs serve more than 150,000 households each year through elementary school, middle school and adult programs.

All aspects of program design and implementation is completed from the Program Center in Modesto, California. This includes graphic and web design, print production, warehousing and distribution, kit production, marketing, program tracking, data tabulation and reporting.

The school-based LivingWise Program is fully implemented and designed to generate immediate and long-term savings by incorporating interactive “real world” practices at home. The Program staff identifies and enrolls students and teachers within a designated service territory. Participants receive educational materials designed to build family knowledge and demonstrate simple ways to save by changing habits and changing devices. Materials meet state and national educational standards, which allows the Program to easily fit into teachers' existing schedules and requirements.

The Program begins with classroom discussions teaching the importance of using water and energy efficiently, followed by hands-on home projects using students' new Resource Action Kit of devices and supplies. With the help of their parents, students install the devices in their home and complete a home audit report. The reporting phase of the program gathers household data while reinforcing education and building commitment. The LivingWise staff tabulates all results including home audits, teacher evaluations, student reports, and parent to generate a final Program Summary Report.

Each participant receives a Resource Action Kit containing efficiency technologies for their home and materials to perform the hands-on activities. Program materials include:

Each student/teacher receives:

Student Guide

Home Energy and Water Use Workbook

Parent Introduction Letter*

Home Audit Form

Pre & Post Surveys

Certificate of Achievement

Computer Lab Activity

Resource Action Kit containing:

- Compact Fluorescent Light Bulb
- Digital Water / Air / Refrigerator / Freezer Thermometer*
- FilterTone® Alarm*
- Oxygenics® Showerhead*
- Kitchen Aerator*
- Bathroom Aerator*
- Drip / Rain Gauge*
- Flow Rate Test Bag
- Natural Resources Fact Chart
- Toilet Leak Detector Tablets*
- Mini Tape Measure
- Parent Comment Card

'GetWise' Wristband

Interactive Program Website

Toll-Free Telephone Support

*Materials / Installation Instructions
Provided in Spanish

Each teacher/classroom receives:

Teacher Guide

Step-by-Step Program Checklist

Lesson Plans

Program Evaluation

LivingWise Program Video (VHS)

Supplemental Activities*

State Education Standard Correlation Chart

Pre/Post Survey Answer Keys

Electricity, Water & Natural Gas Posters for classroom

Self Addressed Postage Paid Envelope





PROGRAM IMPLEMENTATION

The LivingWise Program followed the comprehensive implementation schedule:

1. Identification of State Education Standards & Benchmarks
2. Curriculum Development and Refinement (Completed Annually)
3. Curriculum Correlation to State Education Standards & Benchmarks
4. Incentive Program Development
5. Teacher / School Identification - with Sponsor Approval
6. Teacher Outreach and Program Introduction
7. Teachers Enrolled in the Program Individually
8. In-Class 'kick-off' Presentations by LivingWise Staff Offered to Teachers
9. Implementation Dates Scheduled with Teachers
10. Program Material Delivered to Coincide with Desired Implementation Date
11. Delivery Confirmation
12. In-Class 'kick-off' Presentations Conducted by LivingWise Staff
13. Periodic Contact to Ensure Implementation and Teacher Satisfaction
14. Program Completion Incentive Offered
15. Results Collection
16. Program Completion Incentive Delivered to Qualifying Participants
17. Thank-you Cards Sent to Participating Teachers
18. Data Analysis
19. Program Summary Report

Participating teachers are free to implement the LivingWise Program at any time during the school year to coincide with their lesson plans and schedules. The table on the below provides a comprehensive list of sixth grade classrooms that participated during the 2007-2008 school year.

| School | Teacher | Teachers | Students |
|------------------------------|-----------------|----------|----------|
| Desert Springs Middle School | Araceli Madrid | 1 | 17 |
| Desert Springs Middle School | Bob Masse | 1 | 69 |
| Desert Springs Middle School | Brandy Lee | 1 | 65 |
| Desert Springs Middle School | Kari Gunkel | 1 | 85 |
| Desert Springs Middle School | Leann Hoelscher | 1 | 70 |

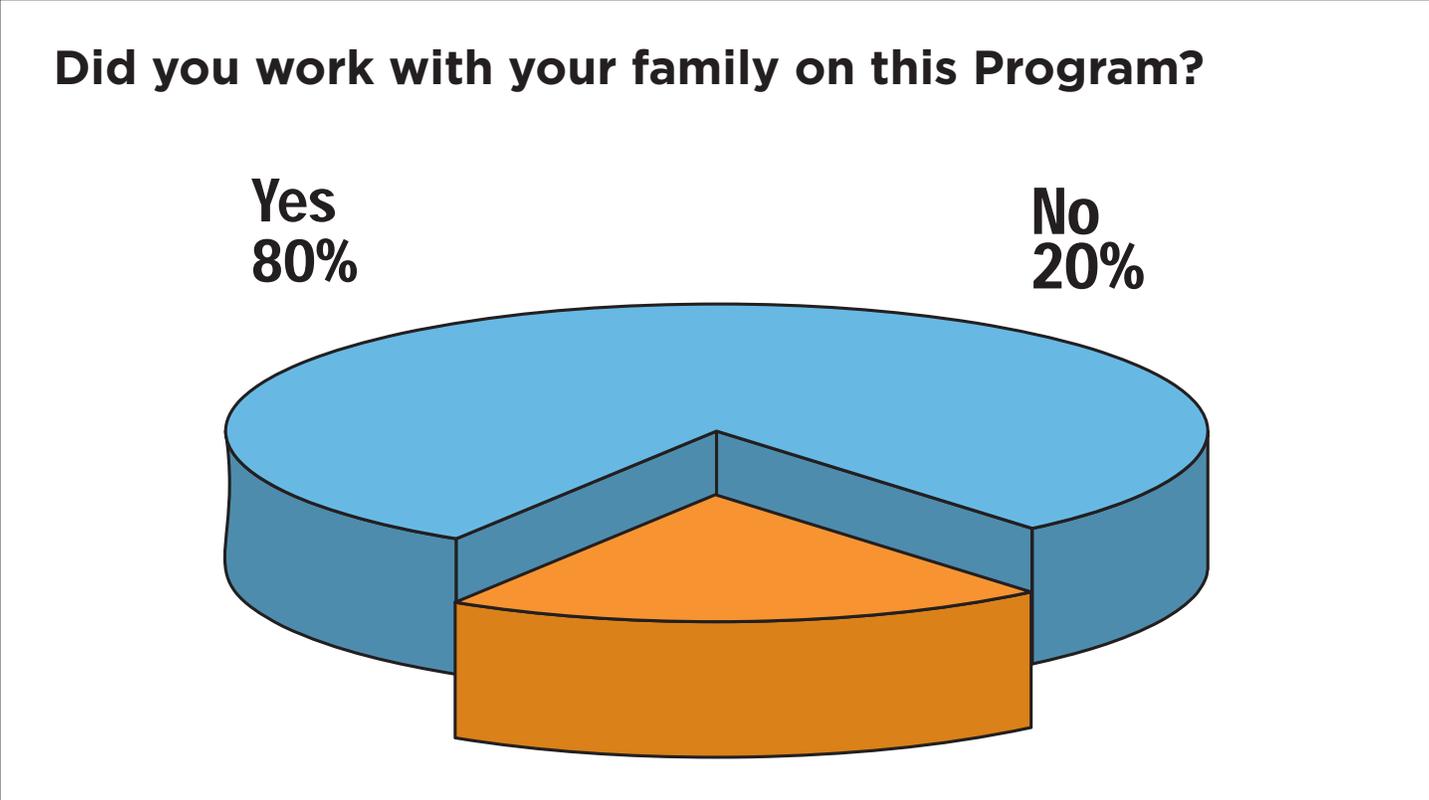
| | | |
|---------------------------|-----|-----|
| <i>Totals</i> | 5 | 306 |
| <i>Total Participants</i> | 311 | |

The Mission Springs Water District, Southern California Edison and Southern California Gas LivingWise Program has had a significant impact within the communities served. As illustrated below, the Program has demonstrated its success in educating a portion of the community about water and energy efficiency while installing efficiency measures in homes and collecting household usage data for sponsors. The following results were compiled:

A. Home Survey and Retrofits (BMPs 1 and 2)

Upon completion of the Program, participating families are asked to complete a Home Audit to assess their resource use, verify product installation, provide demographic information and measure participation rates. A few samples of questions asked are below while a complete summary of all responses is included in the appendices.

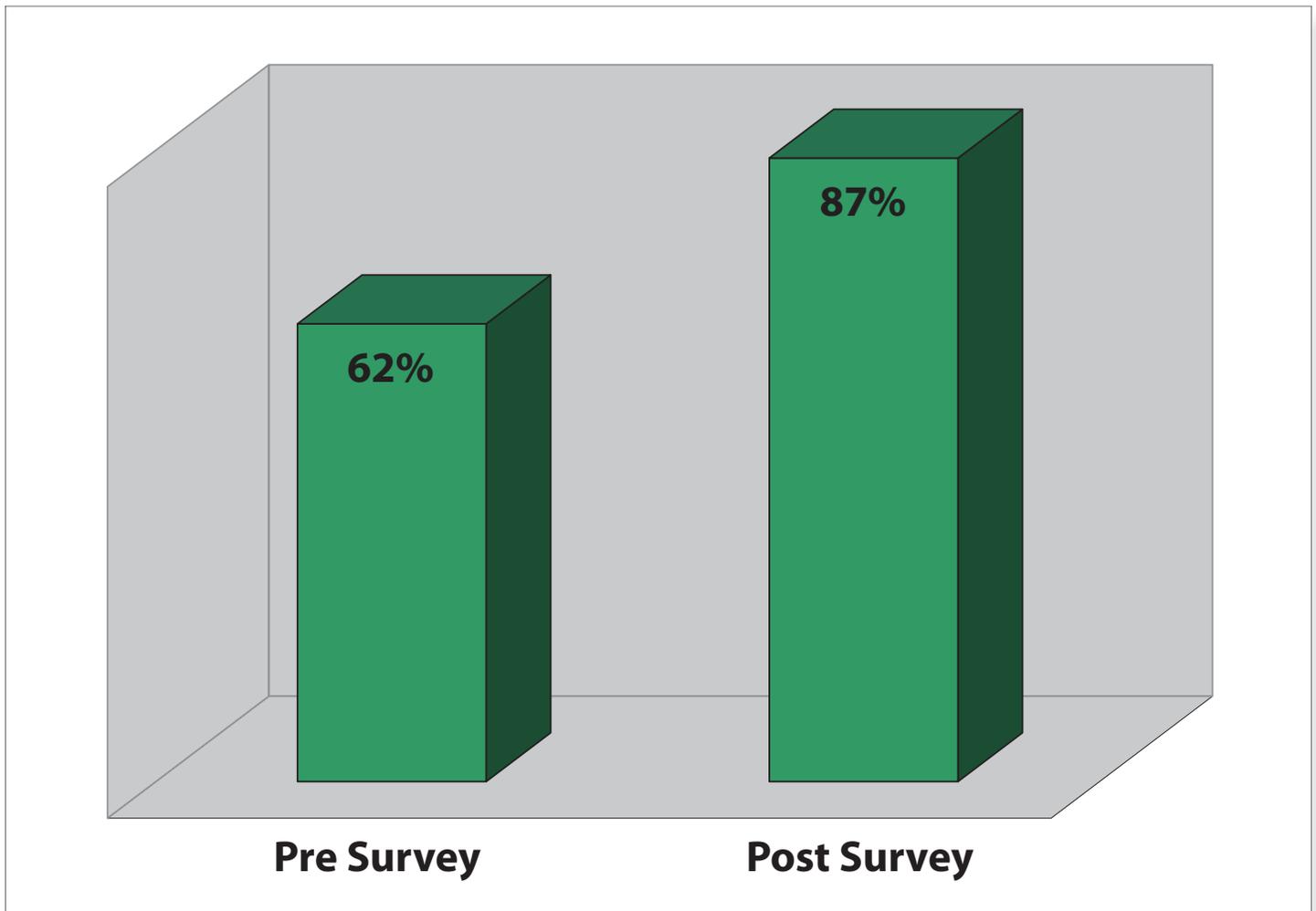
- Did you work with your family on this Program? Yes - 80%**
- Did you and your family change the way you use water? Yes - 70%**
- Did you install the high efficiency showerhead? Yes - 42%**



B. Knowledge Gained (BMP 7)

Students were asked to complete a 10 question survey before the Program was introduced and then again after it was completed to determine the learning impact and the knowledge gained through the Program. The average student answered 6.2 questions correctly prior to being involved in the Program and then improved to answer 8.7 questions correctly following participation.

Scores improved from 62% to 87%





C. Water and Energy Savings Summary

As part of the program and working with parents or guardians, students installed resource efficiency technologies in their homes. They also measured the pre-existing equipment to calculate savings that they generated. Using the family habits collected from the customer survey information as the basis for this calculation, three hundred eleven (311) Mission Springs Water District, Southern California Edison and Southern California Gas LivingWise Program households are expected to save the following resource totals. Savings from these activities will continue for many years to come.

| Projected Resource Savings | | |
|---|--|---|
| Number of Participants: | 311 | |
| | <u>Annual</u> | <u>Lifetime</u> |
| Reduction from showerhead retrofit: Product Life: 10 years | 1,907,052 8,451 50,827 | 19,070,520 gallons 84,512 therms 508,269 kWh |
| Reduction from bathroom aerator retrofit: Product Life: 5 years | 241,219 1,069 6,429 | 1,206,097 gallons 5,345 therms 32,145 kWh |
| Reduction from kitchen aerator retrofit: Product Life: 5 years | 212,841 943 5,673 | 1,064,203 gallons 4,716 therms 28,363 kWh |
| Reduction from air filter alarm: Product Life: 10 years | 10,356 | 103,563 kWh |
| Reduction from compact fluorescent lightbulb: Product Life: 10,000 hours | 23,075 | 158,050 kWh |
| TOTAL PROGRAM SAVINGS: | 2,361,112 10,463 96,360 | 21,340,820 gallons 94,573 therms 830,391 kWh |
| TOTAL PROGRAM SAVINGS PER HOUSEHOLD: | 7,592 34 310 | 68,620 gallons 304 therms 2,670 kWh |



D. Participant Response

Program improvements are based on participant feedback received from each program. Students, Teachers and Parents are each asked to evaluate relevant aspects of the program. Each response is reviewed for pertinent information to both the Program and the Program Sponsor. The following is a sample of feedback collected during the Program.

Teacher Responses

(A summary of responses can be found in Appendix C)

100% of participating teachers indicated they would conduct the Program again given the opportunity.

100% of participating teachers indicated they would recommend the Program to their colleagues.

E. Program Enhancements (BMP 8)

In addition to increasing resource awareness and efficiency, the Program strengthens bonds between sponsors and their communities. The Program has been designed from start to finish with this in mind. Some of the steps taken to ensure our sponsors receive the greatest possible exposure are as follows:

School Presentations: In-class 'kickoff' presentations by LivingWise Program staff were made available to participating teachers. These presentations provided an overview of the LivingWise Program along with information on Mission Springs Water District and other sponsors. Unfortunately, zero schools requested presentations.

Promotion of Sponsor Programs: LivingWise materials were used to publicize and boost enrollment in additional efficiency program opportunities. These were used by energy utilities, but can easily promote Mission Springs Water District residential programs such as appliance rebates, toilet retrofits or landscape programs.

Custom Branding: Each Resource Action Kit was labeled with the Mission Springs Water District, Southern California Edison and Southern California Gas logos. In addition to the Resource Action Kit, the Introduction to Parent Letter and Program Evaluation featured sponsor branding.

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Projected Savings from Showerhead Retrofit

| | |
|--|--------------------------------------|
| Average household size: | 2.50 people ³ |
| Average length of use: | 8.00 minutes ⁴ per day |
| Product life: | 10.00 years ¹ |
| Average showerhead has a flow rate of: | 4.00 gallons per minute ⁴ |
| Oxygenics showerhead has flow rate of: | 2.00 gallons per minute |
| Flow reduction: | 2.00 gallons per minute |

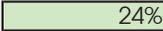
Water:

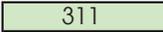
| | |
|---|-----------------------|
| Average showerhead requires: | 80.00 gallons per day |
| Retrofit showerhead requires: | 40.00 gallons per day |
| Showerhead produces an annual reduction of: | 14,600.00 gallons |
| Showerhead produces a lifetime reduction of: | 146,000 gallons |

Gas:

| | |
|---|--|
| Average showerhead requires: | 0.47 therms per day |
| Retrofit showerhead requires: | 0.23 therms per day |
| % of water heated by gas: |  76% |
| Showerhead produces an annual reduction of: | 65 therms |
| Showerhead produces a lifetime reduction of: | 647 therms |

Electricity:

| | |
|---|--|
| Average showerhead requires: | 8.88 kWh per day |
| Retrofit showerhead requires: | 4.44 kWh per day |
| % of water heated by electricity: |  24% |
| Showerhead produces an annual reduction of: | 389 kWh |
| Showerhead produces a lifetime reduction of: | 3,891 kWh |

| | |
|---------------------------------------|--|
| Number of Participants |  311 |
| Installation / participation rate of: |  42% |

Total reduction from showerhead retrofit:

| | |
|------------------|--------------------|
| Annual: | 1,907,052 gallons |
| | 8,451 therms |
| | 50,827 kWh |
| Lifetime: | 19,070,520 gallons |
| | 84,512 therms |
| | 508,269 kWh |

1. Product life taken from manufacturer.

3. U.S. Census Bureau, 2003. Population Division, Fertility and Family Statistics Branch

4. Ridge & Associates, 2001. Southern California Edison: Evaluation of 2000-2001 School Programs.

Projected Savings from Kitchen Aerator Retrofit

| | |
|---|--------------------------------------|
| Average household size: | 2.50 people ³ |
| Average length of use: | 2.50 minutes ⁴ per day |
| Product life: | 5.00 years ¹ |
| Average kitchen aerator has a flow rate of: | 2.50 gallons per minute ⁴ |
| Retrofit kitchen aerator has flow rate of: | 1.50 gallons per minute |
| Flow reduction: | 1.00 gallons per minute |

Water:

| | |
|---|-----------------------|
| Average kitchen aerator requires: | 15.63 gallons per day |
| Retrofit kitchen aerator requires: | 9.38 gallons per day |
| Retrofit kitchen aerator produces an annual reduction of: | 2,281 gallons |
| Retrofit kitchen aerator produces a lifetime reduction of: | 11,406 gallons |

Gas:

| | |
|---|---------------------|
| Average kitchen aerator requires: | 0.09 therms per day |
| Retrofit kitchen aerator requires: | 0.05 therms per day |
| % of water heated by gas: | 76% |
| Retrofit kitchen aerator produces an annual reduction of: | 10 therms |
| Retrofit kitchen aerator produces a lifetime reduction of: | 51 therms |

Electricity:

| | |
|---|------------------|
| Average kitchen aerator requires: | 1.74 kWh per day |
| Retrofit kitchen aerator requires: | 1.04 kWh per day |
| % of water heated by electricity: | 24% |
| Retrofit kitchen aerator produces an annual reduction of: | 61 kWh |
| Retrofit kitchen aerator produces a lifetime reduction of: | 304 kWh |

| | |
|---------------------------------------|-----|
| Number of Participants | 311 |
| Installation / participation rate of: | 30% |

Total reduction from kitchen aerator retrofit:

| | |
|------------------|-------------------|
| Annual: | 212,841 gallons |
| | 943 therms |
| | 5,673 kWh |
| Lifetime: | 1,064,203 gallons |
| | 4,716 therms |
| | 28,363 kWh |

1. Product life taken from manufacturer.
 3. U.S. Census Bureau, 2003. Population Division, Fertility and Family Statistics Branch
 4. Ridge & Associates, 2001. Southern California Edison: Evaluation of 2000-2001 School Programs.

Projected Savings from Bathroom Aerator Retrofit

| | |
|--|--------------------------------------|
| Average household size: | 2.50 people ³ |
| Average length of use: | 2.50 minutes ⁴ |
| Product life: | 5.00 years ¹ |
| Average bathroom aerator has a flow rate of: | 2.00 gallons per minute ⁴ |
| Retrofit bathroom aerator has flow rate of: | 1.00 gallons per minute |
| Flow reduction: | 1.00 gallons per minute |

Water:

| | |
|--|----------------|
| Average bathroom aerator requires: | 12.50 gallons |
| Retrofit bathroom aerator requires: | 6.25 gallons |
| Retrofit bathroom aerator produces an annual reduction of: | 2,281 gallons |
| Retrofit bathroom aerator produces a lifetime reduction of: | 11,406 gallons |

Gas:

| | |
|--|-------------|
| Average bathroom aerator requires: | 0.07 therms |
| Retrofit bathroom aerator requires: | 0.04 therms |
| % of water heated by gas: | 76% |
| Retrofit bathroom aerator produces an annual reduction of: | 10 therms |
| Retrofit bathroom aerator produces a lifetime reduction of: | 51 therms |

Electricity:

| | |
|--|----------|
| Average bathroom aerator requires: | 1.39 kWh |
| Retrofit bathroom aerator requires: | 0.69 kWh |
| % of water heated by electricity: | 24% |
| Retrofit bathroom aerator produces an annual reduction of: | 61 kWh |
| Retrofit bathroom aerator produces a lifetime reduction of: | 304 kWh |

| | |
|---------------------------------------|-----|
| Number of participants: | 311 |
| Installation / participation rate of: | 34% |

Total reduction from bathroom aerator retrofit:

| | |
|------------------|-------------------|
| Annual: | 241,219 gallons |
| | 1,069 therms |
| | 6,429 kWh |
| Lifetime: | 1,206,097 gallons |
| | 5,345 therms |
| | 32,145 kWh |

1. Product life taken from manufacturer.
 3. U.S. Census Bureau, 2003. Population Division, Fertility and Family Statistics Branch
 4. Ridge & Associates, 2001. Southern California Edison: Evaluation of 2000-2001 School Programs.

Projected Savings from CFL Retrofit

| | |
|---------------------------------------|---------------------------|
| Average length of use: | 1460 hours per year |
| Average incandescent light bulb uses: | 100 watts per hour |
| Compact fluorescent light bulb uses: | 23 watts per hour |
| Product life: | 10,000 hours ¹ |
| Energy saved per year | 112 kWh |
| Energy saved over life expectancy: | 770 kWh |

| | |
|---------------------------------------|-----|
| Number of Participants | 311 |
| Installation / participation rate of: | 66% |

Reduction from compact fluorescent light bulb:

| | |
|-----------|-------------|
| Annual: | 23,075 kWh |
| Lifetime: | 158,050 kWh |

1. Product life taken from manufacturer.

2. Reichmuth P.E., Howard, 1999. Engineering Review and Savings Estimates for the 'Filtertone' Filter Restriction Alarm.

Projected Savings from Filtertone Retrofit

| | |
|---|-----------------------|
| Annual energy use by air conditioner, heat pump or furnace: | 3,000 kWh |
| Projected increase in efficiency: | 3% ² |
| Product life | 10 years ¹ |
| Energy saved per year: | 90 kWh per year |
| Energy saved over life expectancy: | 900 kWh |

| | |
|---------------------------------------|-----|
| Number of Participants | 311 |
| Installation / participation rate of: | 37% |

Total reduction from FilterTone[®] alarm:

| | |
|-----------|-------------|
| Annual: | 10,356 kWh |
| Lifetime: | 103,563 kWh |

1. Product life taken from manufacturer.

2. Reichmuth P.E., Howard, 1999. Engineering Review and Savings Estimates for the 'Filtertone' Filter Restriction Alarm.



Home Survey and Retrofits (BMPs 1 & 2)

Section I - Home Check-up

| | |
|---|-----|
| 1 What type of home do you live in? | |
| Single family home | 79% |
| Multi-family (2-4 units) | 12% |
| Multi-family (5-20 units) | 7% |
| Multi-family (21+ units) | 2% |
| 2 Was your home built before 1992? | |
| Yes | 47% |
| No | 53% |
| 3 Is your home owned or rented? | |
| Owned | 85% |
| Rented | 15% |
| 4 How many kids live in your home? | |
| 1 | 14% |
| 2 | 43% |
| 3 | 29% |
| 4 | 9% |
| 5+ | 6% |
| 5 How many adults live in your home? | |
| 1 | 8% |
| 2 | 75% |
| 3 | 10% |
| 4 | 5% |
| 5+ | 3% |
| 6 What is the main source of heat in your home? | |
| Natural Gas Furnace | 66% |
| Electric Heater | 27% |
| Propane | 2% |
| Wood | 1% |
| Heating Oil | 0% |
| Other | 5% |
| 7 Does your home have a programmable thermostat? | |
| Yes | 83% |
| No | 17% |

| | |
|---|-----|
| 8 Does your home have a dishwasher? | |
| Yes | 92% |
| No | 8% |
| 9 How many half bathrooms are in your home? | |
| 0 | 0% |
| 1 | 57% |
| 2 | 37% |
| 3 | 4% |
| 4+ | 2% |
| 10 How many full bathrooms are in your home? | |
| 1 | 10% |
| 2 | 55% |
| 3 | 30% |
| 4 | 4% |
| 5+ | 1% |
| 11 How many toilets are in your home? | |
| 1 | 7% |
| 2 | 30% |
| 3 | 53% |
| 4 | 8% |
| 5+ | 3% |
| 12 How is your water heated? | |
| Natural Gas | 76% |
| Electricity | 24% |

13 How many incandescent bulbs (non CFL's) are in your home?

| | |
|------|-----|
| 1 | 8% |
| 2 | 2% |
| 3 | 3% |
| 4 | 4% |
| 5 | 3% |
| 6 | 4% |
| 7 | 2% |
| 8 | 4% |
| 9 | 2% |
| 10 | 4% |
| 11 | 1% |
| 12 | 3% |
| 13 | 2% |
| 14 | 2% |
| 15 | 3% |
| 16 | 3% |
| 17 | 2% |
| 18 | 2% |
| 19 | 1% |
| 20 | 3% |
| 21 | 1% |
| 22 | 1% |
| 23 | 2% |
| 24 + | 37% |

Section II - Home Activities

| | |
|--|-----|
| 1 What is the flow rate of your old showerhead? | |
| 0 - 1.0 gpm | 5% |
| 1.1 - 1.5 gpm | 21% |
| 1.6 - 2.0 gpm | 24% |
| 2.1 - 2.5 gpm | 23% |
| 2.6 - 3.0 gpm | 18% |
| 3.1+ gpm | 11% |
| 2 What is the flow rate of your old bathroom aerator? | |
| 0 - 1.0 gpm | 10% |
| 1.1 - 1.5 gpm | 31% |
| 1.6 - 2.0 gpm | 28% |
| 2.1 - 2.5 gpm | 12% |
| 2.6 - 3.0 gpm | 12% |
| 3.1+ gpm | 6% |
| 3 What is the flow rate of your old kitchen aerator? | |
| 0 - 1.0 gpm | 9% |
| 1.1 - 1.5 gpm | 25% |
| 1.6 - 2.0 gpm | 34% |
| 2.1 - 2.5 gpm | 15% |
| 2.6 - 3.0 gpm | 11% |
| 3.1+ gpm | 7% |
| 4 Did you install the high efficiency showerhead? | |
| Yes | 42% |
| No | 58% |
| 5 If you answered yes to question 4, what is the flow rate of your new showerhead? | |
| 0 - 1.0 gpm | 23% |
| 1.0 - 1.5 gpm | 60% |
| 1.5 - 2.0 gpm | 17% |
| 6 Was your toilet leaking? | |
| Yes | 19% |
| No | 81% |
| 7 Did your family install the bathroom aerator? | |
| Yes | 34% |
| No | 66% |
| 8 If you answered yes to question 7, what is the flow rate of your new bathroom aerator? | |
| 0 - 0.5 gpm | 45% |

| | |
|---|-----|
| 9 Did your family install the kitchen aerator? | |
| Yes | 30% |
| No | 70% |
| 10 If you answered yes to question 9, what is the flow rate of your new kitchen aerator? | |
| 0 - 1.0 gpm | 39% |
| 1.1 - 1.5 gpm | 61% |
| 11 Did your home have any water leaks? | |
| Yes | 17% |
| No | 83% |
| 12 Did your family change the way they use water outdoors? | |
| Yes | 48% |
| No | 52% |
| 13 Did your family lower your water heater settings? | |
| Yes | 39% |
| No | 61% |
| 14 Did your family raise the temperature on your refrigerator? | |
| Yes | 20% |
| No | 80% |
| 15 Did your family turn down the thermostat in winter for heating? | |
| Yes | 55% |
| No | 45% |
| 16 Did your family turn up the thermostat in summer for cooling? | |
| Yes | 56% |
| No | 44% |
| 17 Did you install the FilterTone® Alarm? | |
| Yes | 37% |
| No | 63% |
| 18 What was the wattage of the incandescent bulb you replaced? | |
| 60 | 29% |
| 75 | 25% |
| 100 | 20% |
| Other | 26% |
| 19 Did your family install the Compact Fluorescent Lamp (CFL)? | |
| Yes | 66% |
| No | 34% |

| | |
|--|-----|
| 20 Did you work with your family on this program? | |
| Yes | 80% |
| No | 20% |
| 21 Did your family change the way they use water? | |
| Yes | 70% |
| No | 30% |
| 22 Did your family change the way they use energy? | |
| Yes | 72% |
| No | 28% |
| 23 How would you rate the LivingWise program? | |
| Great | 33% |
| Pretty good | 39% |
| Okay | 22% |
| Not so good | 5% |

Teacher Program Evaluations

| | |
|---|------|
| 1 The materials were attractive and easy to use. | |
| Strongly Agree | 80% |
| Agree | 20% |
| Disagree | 0% |
| Strongly Disagree | 0% |
| 2 The materials and activities were well received by students. | |
| Strongly Agree | 60% |
| Agree | 40% |
| Disagree | 0% |
| Strongly Disagree | 0% |
| 3 The materials were clearly written and well organized. | |
| Strongly Agree | 60% |
| Agree | 40% |
| Disagree | 0% |
| Strongly Disagree | 0% |
| 4 The conservation technologies were easy for students to use. | |
| Strongly Agree | 60% |
| Agree | 40% |
| Disagree | 0% |
| Strongly Disagree | 0% |
| 5 Students indicated that their parents supported the program. | |
| Strongly Agree | 40% |
| Agree | 60% |
| Disagree | 0% |
| Strongly Disagree | 0% |
| 6 If you had the opportunity, would you conduct this program again? | |
| Yes | 100% |
| No | 0% |
| 7 Would you recommend this program to other colleagues? | |
| Yes | 100% |
| No | 0% |

LivingWise

RESOURCE ACTION PROGRAMS®



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