

# IDAHO POWER ENERGYWISE® PROGRAM SUMMARY REPORT

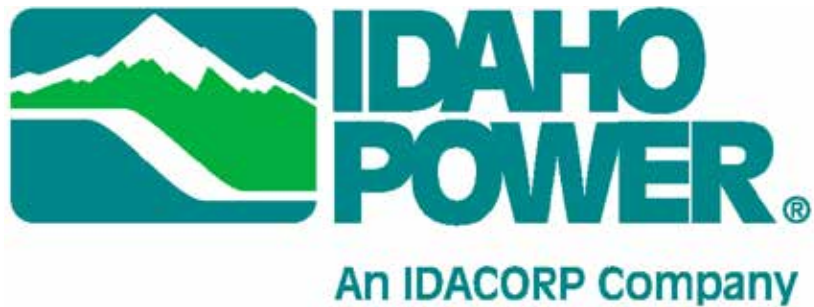
FALL 2019

SUBMITTED BY:



# Idaho Power EnergyWise Program Summary Report Fall 2019


Made possible by:



Submitted by:



January 2020




*“The kids like the kits because they can share what they learn in class with their family. They also liked learning about how much their video game consoles cost to run.”*

**Tanya Scheibe, Teacher**

*Lake Ridge Elementary School*

# Table of Contents

<b>Executive Summary</b> .....	<b>5</b>
<b>Program Overview</b> .....	<b>9</b>
<b>Program Materials</b> .....	<b>11</b>
<b>Program Implementation</b> .....	<b>15</b>
<b>Program Team</b> .....	<b>17</b>
<b>Program Impact</b> .....	<b>19</b>
<b>A. Home Survey</b> .....	<b>19</b>
<b>B. Pre-Program and Post-Program Tests</b> .....	<b>20</b>
<b>C. Home Activities</b> .....	<b>21</b>
<b>D. Teacher Program Evaluation</b> .....	<b>22</b>
<b>E. Teacher Letters</b> .....	<b>24</b>
<b>F. Student Letters</b> .....	<b>28</b>
<b>Appendix A</b> .....	<b>34</b>
<b>Projected Savings from Showerhead Retrofit</b> .....	<b>34</b>
<b>Projected Savings from Shower Timer Installation</b> .....	<b>35</b>
<b>Projected Savings from FilterTone® Alarm Installation</b> .....	<b>36</b>
<b>Projected Savings from First 9-watt LED Retrofit</b> .....	<b>37</b>
<b>Projected Savings from Second 9-watt LED Retrofit</b> .....	<b>38</b>
<b>Projected Savings from Third 9-watt LED Retrofit</b> .....	<b>39</b>
<b>Projected Savings from LED Night Light Retrofit</b> .....	<b>40</b>
<b>Appendix B</b> .....	<b>41</b>
<b>Home Check-Up</b> .....	<b>41</b>
<b>Home Activities</b> .....	<b>43</b>
<b>Appendix C</b> .....	<b>46</b>
<b>Teacher Program Evaluation Data</b> .....	<b>46</b>
<b>Appendix D</b> .....	<b>47</b>
<b>Teacher Letters</b> .....	<b>47</b>
<b>Appendix E</b> .....	<b>49</b>
<b>Student Letters</b> .....	<b>49</b>
<b>Appendix F</b> .....	<b>58</b>
<b>Participant List</b> .....	<b>58</b>



*“I liked how the chapters in the books were broken up into manageable sections. The little activities were great for helping focus on finding key information.”*

**Brian Fischer, Teacher**

*Eagle Hills Elementary School*

# Executive Summary

Franklin Energy is pleased to present this Program Summary Report to Idaho Power, which summarizes the Fall 2019 Idaho Power EnergyWise Program. The program was implemented in the Idaho Power service area in the states of Idaho and Oregon by 5,436 teachers, students, and their families.

The following pages provide an overview of the program and materials, outline of program implementation, introduction to the program team, description of program enhancements, impact of the program, and summary of results from the home activities. In addition to this information, evaluations, letters, and comments are provided for a glimpse into actual participant feedback. Lastly, projected savings from the individual measures found within the EnergyWise Kit are also included.

### Participant Satisfaction

A successful program excites and engages participants. Students, parents, and teachers are asked to evaluate the program and provide personal comments. A sample of the feedback is given in the margin. >



*Teachers who indicated that products in the kit were easy for students to use.*

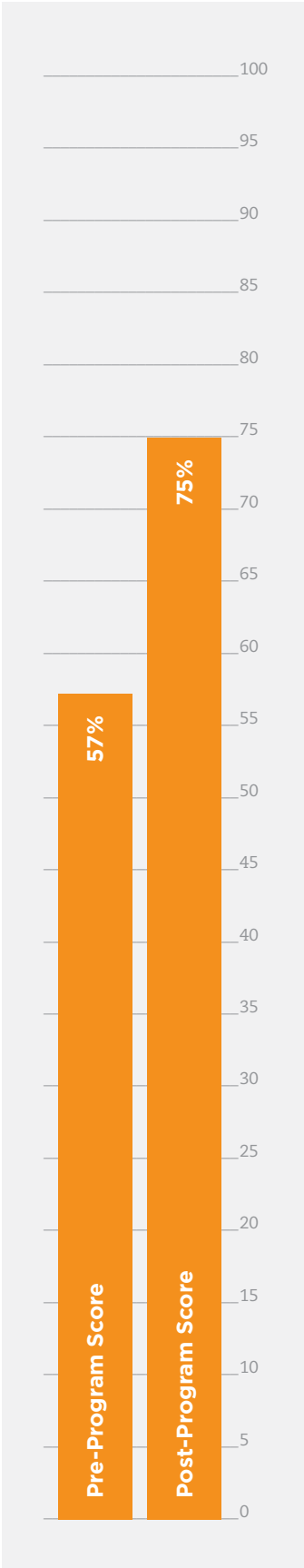


*Teachers who indicated they would recommend this program to other colleagues.*



*Teachers who indicated they would conduct this program again.*

A summary of responses can be found in Appendix D.



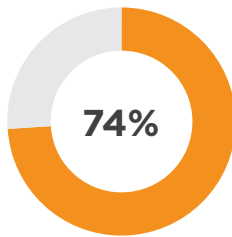
### Knowledge Gained

Identical tests were administered to the students prior to the program and again upon program completion to measure knowledge gained. Scores and subject knowledge improved from **57% to 75%**.

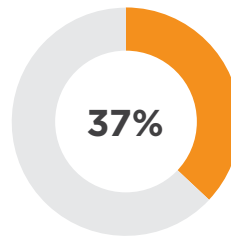
### Measures Installed

Students completed take-home activities as part of the program and reported on the kit measures they installed in their homes.

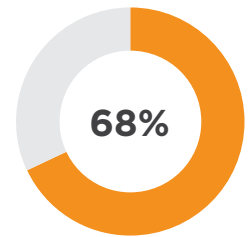
*A summary of responses can be found in Appendix B.*



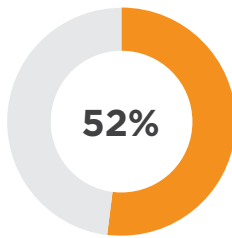
*Students who reported they installed the LED Night Light.*



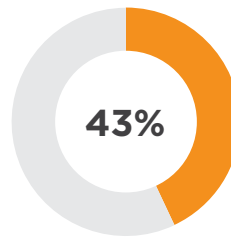
*Students who reported they installed the High-Efficiency Showerhead.*



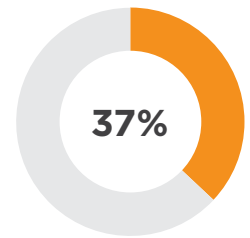
*Students who reported they installed the Shower Timer.*



*Students who reported that they installed the first 9-watt LED Light Bulb.*



*Students who reported that they installed the second 9-watt LED Light Bulb.*



*Students who reported that they installed the third 9-watt LED Light Bulb.*

## Energy and Water Savings Results

In addition to educating students and their parents, a primary program goal is to generate cost-effective energy and water savings. Student home surveys not only provided the data used in the savings projections, but also reinforced the learning benefits.

### Projected Resource Savings


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

PROJECTED ANNUAL SAVINGS		PROJECTED LIFETIME SAVINGS	
<b>7,481,717</b>	gallons of water saved	<b>74,817,167</b>	gallons of water saved
<b>1,029,300</b>	kWh of electricity saved	<b>11,003,486</b>	kWh of electricity saved
<b>30,767</b>	therms of gas saved	<b>307,675</b>	therms of gas saved
<b>7,481,717</b>	gallons of wastewater saved	<b>74,817,167</b>	gallons of wastewater saved

PROJECTED ANNUAL SAVINGS PER HOME		PROJECTED LIFETIME SAVINGS PER HOME	
<b>1,376</b>	gallons of water saved	<b>13,763</b>	gallons of water saved
<b>189</b>	kWh of electricity saved	<b>2,024</b>	kWh of electricity saved
<b>6</b>	therms of gas saved	<b>57</b>	therms of gas saved
<b>1,376</b>	gallons of wastewater saved	<b>13,763</b>	gallons of wastewater saved

\*\*Per Idaho Power's request, the associated savings for the shower timer have not been included in savings totals.





*“The lessons were very engaging for students. They liked learning about energy and how to conserve it.”*

**Andrea Chester, Teacher**

*West Canyon Elementary*

# Program Overview


The Idaho Power EnergyWise Program, a school-based energy efficiency education program, is designed to generate immediate and long-term resource savings by bringing interactive, real-world education home to students and their families. The Fall 2019 program was taught in grade 4-6 throughout the Idaho Power service area.

The Idaho Power EnergyWise Program team identifies and enrolls students and teachers within the designated service area. The program physically begins with classroom discussions using a Student Guide that provides the foundations of using energy and water efficiently. It is followed by hands-on, creative, problem-solving activities led by the classroom teacher.

All program materials support state and national academic standards to allow the program to fit easily into a teacher's existing curriculum and requirements. The participating classroom teachers follow the Teacher Book and lesson plan. Information is given to guide lessons throughout the program in order to satisfy each student's individual needs, whether they are visual, auditory, or kinesthetic learners.

The EnergyWise Kit and Student Workbook comprise the take-home portion of the program. Students receive a kit containing high-efficiency measures they use to install within their homes. With the help of their parents/guardians, students install the kit measures and complete a home survey. The act of installing and monitoring new energy efficiency devices in their homes allows students to put their learning into practice. Here, participants and their parents/guardians realize actual water and energy savings within their home, benefitting two generations.

A critical element of Franklin Energy program design is the use of new knowledge through reporting. At the end of the program, the Idaho Power EnergyWise program team tabulates all participant responses—including home survey information, teacher responses, student letters, and parent feedback—and generates this Program Summary Report.



*“The students liked installing the items in the kit, then telling stories about their experiences.”*

**Julie Bodily, Teacher**

*Four Rivers Community School*

# Program Materials

Each participant in the Idaho Power EnergyWise Program receives classroom materials and energy efficiency kits containing high-efficiency measures to perform the program's take-home activities. Program materials for students, parents/guardians, and teachers are outlined below.

## Each Student & Teacher Receives

Student Guide

Student Workbook

Parent Letter/Pledge Form\*

Student Survey Form

Certificate of Achievement

EnergyWise Kit Containing:

- High-Efficiency Showerhead
- (3) 9-watt LED Light Bulbs
- Shower Timer
- FilterTone® Alarm
- Digital Thermometer
- LED Night Light
- Flow Rate Test Bag
- Natural Resource Fact Chart
- Reminder Stickers and Magnet Pack
- Parent/Guardian Program Evaluation
- Illustrated Installation Guide

Idaho Power Wristband

Website Access at:

<http://www.idahopower.com/wise>

Toll-Free HELP Line

## Each Teacher/Classroom Receives

Teacher Book

Idaho Power Custom Introduction Video -  
Flash Drive

Step-by-Step Program Checklist

Lesson Plans

Idaho State and National Academic  
Standards Chart

Extra Activities

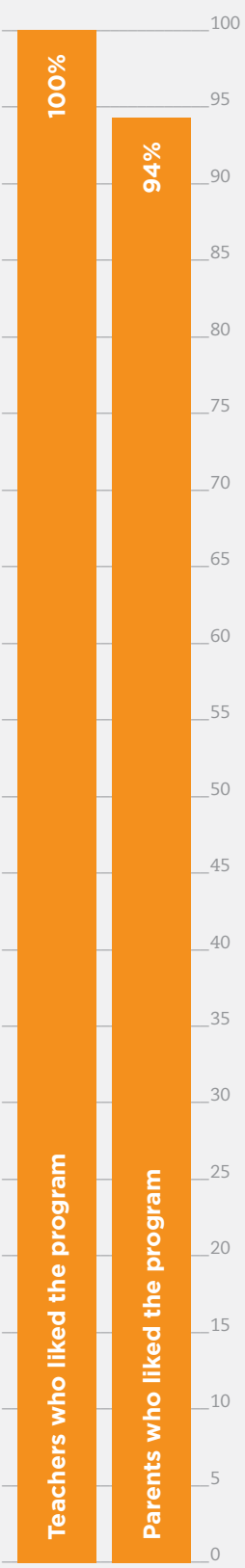
Teacher Survey Form

Pre/Post Student Survey Answer Keys

Electricity Poster

Self-Addressed Postage-Paid Envelope

\* Materials / Installation Instructions provided in English and Spanish



### Custom Branding

In addition to increasing resource awareness and efficiency, the program has been designed to strengthen bonds between Idaho Power and the community. One of the steps taken to ensure the greatest possible exposure is to feature the Idaho Power logo throughout each EnergyWise Kit. In addition to the kit, the Teacher Survey Form, Parent Letter/Pledge Form, and Idaho Power exclusive Introduction Video (flash drive) also feature Idaho Power branding. Further, a custom Teacher Solicitation Flyer was created for Community Education Representatives' program promotion.



**2019-2020 Idaho Power Energy Wise® Program**

**Participate in Idaho Power's 4th-6th grade Energy Wise Program**

Idaho Power's Energy Wise Program provides 4th-6th grade students in schools served by Idaho Power with quality, age appropriate materials engaging the vital instruction regarding the vital use of electricity. Each student who participates receives a take-home kit containing energy products to encourage energy savings at home and reduce emissions as participants learn, understand and reinforce the concepts taught in school.

**Each Student/Teacher Receives:**

- Student Guide
- Student Workbook
- Parent Letter/Pledge Form
- Student Survey Form
- Certificate of Achievement
- EnergyWise Kit
  - 10 x 5 Watt LED Light Bulbs
  - 10 x 5 Watt LED Light Bulbs (950 Lumens, 60 Watt Equivalent)
  - Water Filter
  - Smart Thermostat
  - Water-Furne-A-Run Box
  - High Efficiency Shower Head
  - Insulated Breakfast Bowl
  - Personalized Program Evaluation
  - Personalized Instructional Material
  - Personalized Worksheet
  - Personalized Certificate
  - Personalized Survey Form
  - Personalized Survey Form

**Each Teacher/Classroom Receives:**

- Teacher Book with Lesson Plans and more
- 100 x 5 Watt LED Light Bulbs
- Teacher Manual
- Each Classroom (5th and 6th grade)
  - Smart Thermostat
  - Water-Furne-A-Run Box
  - High Efficiency Shower Head
  - Insulated Breakfast Bowl
  - Personalized Program Evaluation
  - Personalized Instructional Material
  - Personalized Worksheet
  - Personalized Certificate
  - Personalized Survey Form
  - Personalized Survey Form

**There is no cost to participate and a great chance to win a mini-grant!**

**Idaho Power**

For more information, contact: Denise Humphreys, Office: 208.383.5266, dhumphreys@idahopower.com

Students who participate August-November will be eligible for a mini-grant of up to \$100 when they return their Student Survey forms in the postage-paid envelope by December 31, 2019. Mini-grant e-Cards will be emailed 2-3 weeks after receipt of the completed Student Survey forms.

Return Rate	Mini-Grant Award
80-100 percent	\$100
65-79 percent	\$75
50-64 percent	\$50
35-49 percent	\$25

**Idaho Power Energy Wise Program Results!**

- Of teachers, 99% said they would conduct the program again and 99% said they would recommend the program to colleagues.
- Of parents, 100% indicated the program was easy for them and their child to use and 99% indicated they would like to see the program continued in their schools.
- The 2019-2020 school year's participants saved 2,723,829 kWh of electricity, enough to power almost 2,865 homes' electricity use for one year or avoided CO<sub>2</sub> emissions of 4,688 tons of CO<sub>2</sub>.

**Thank You!**

# Program Materials

**TEACHER SURVEY**  
Your feedback is greatly appreciated.

Program brought to you by: **IDaho POWER**  
AN IDACORP COMPANY

Date: \_\_\_\_\_  
School: \_\_\_\_\_  
Teacher name: \_\_\_\_\_  
E-mail: \_\_\_\_\_  
Number of Student Survey Forms returned: \_\_\_\_\_  
Teacher Signature: \_\_\_\_\_

Please assess the Energy Wise® Program by filling out this Teacher Survey Form. Upon completion, return this survey form, your Student Survey Forms, student thank-you notes, and a letter from you to Idaho Power in the postage-paid return envelope provided.

**PLEASE FILL IN THE CIRCLE THAT BEST DESCRIBES YOUR OPINION:**

1. The materials were clearly written and well organized.  
 Strongly Agree    Agree    Disagree    Strongly Disagree

2. The activities in the kit were easy for students to use.  
 Strongly Agree    Agree    Disagree    Strongly Disagree

3. Which classroom activities did you complete? (Mark all that apply.)  
 Science to Disrupt    Classroom Games    Outside Games  
 Use from Light Bulbs    Use from Do the Math    Use from Cycles  
 Student Surveys

4. Students indicated that their parents supported the program.  
 Yes    No

5. Would you conduct this program again?  
 Yes    No

6. Would you recommend this program to other colleagues?  
 Yes    No

7. Would you be willing to participate on a local Teacher Advisory Board?  
 Yes    No

8. If my school is eligible for participation next year, I would like to enroll.  
 Yes    No

9. What did students like best about the program? Explain.

10. What did you like best about the program? Explain.

11. What would you change about the program? Explain.


**GET YOUR \$100.00 MINI GRANT!**  
Return the following by **December 31, 2018** for fall implementors or **May 15, 2019** for spring.

- 80% of Student Survey Forms
- This survey form
- Student Thank you notes
- A letter from you

By submitting this survey, you are agreeing to the program participation and the use of your name and school for all promotional, public relations, advertising, and marketing purposes, including press releases.

Teacher Survey Form

**PARENTS**



**CONGRATULATIONS!**  
Your child's class has been selected to participate in the annual Idaho Power Energy Wise® Program. The program is designed to teach your child the importance of good household energy and water safety habits and responsible. This program is being provided by Idaho Power at no additional cost to your child's ability to attend the school district.

The average U.S. household pays at least \$2000 per year on utility bills, and can often reduce these costs with just a few simple changes. Your child will get a kit, valued at over \$60, which includes such things as energy-saving light bulbs that will help you and your family make energy changes and become more energy efficient. To participate please fill out this form.

- Have your child talk to you about the ways they would like to save energy and water and complete the Pledge Form located on the next page.
- Review the attached Instruction Guide in your kit. Most of the activities in less than 15 minutes.
- Fill out all of the kit items. You and your child can also visit [www.idahopower.com/ewp](http://www.idahopower.com/ewp) to view all of the kit items. You may need additional help installing the kit items. Visit [www.idahopower.com/ewp](http://www.idahopower.com/ewp) for more information.

If you need additional help installing the kit items, visit [www.idahopower.com/ewp](http://www.idahopower.com/ewp). If you have questions, please see the printed IDaho Power Instruction Guide or call 1-888-GET-WISE.

- Work with your child to answer all of the survey questions in the Student Take-Home Workbook.

We thank the Energy Wise® Program will be an early and fun experience for your entire family and will provide an opportunity for your child to be a leader in your home and community. Thank you for your participation.

**STUDENTS**

**PLEDGE FORM**

Name: \_\_\_\_\_  
School: \_\_\_\_\_  
Date: \_\_\_\_\_  
Teacher: \_\_\_\_\_

**TAKE THE PLEDGE**

I pledge to do my part by installing all of the items in my kit to save energy and water as well as reduce my family's utility bills.

I have helped you out by writing your first pledge. All you have to do to complete our first pledge and water efficient at home. Remember, a pledge is a promise.

**SIGN THE PLEDGE**

I, the child named in my pledge above and by signing this form, I promise to use energy and water efficiently at home.

Parent Signature: \_\_\_\_\_


SIGN

+

INSTALL


=

SAVE

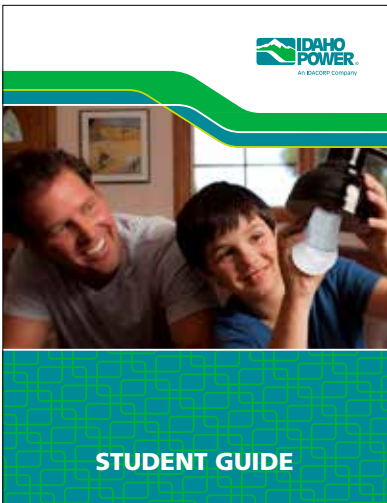


**LET'S GET STARTED!**

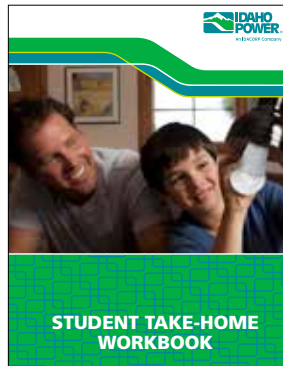
QUESTIONS? • 1-888-GET-WISE • [www.idahopower.com/ewp](http://www.idahopower.com/ewp)



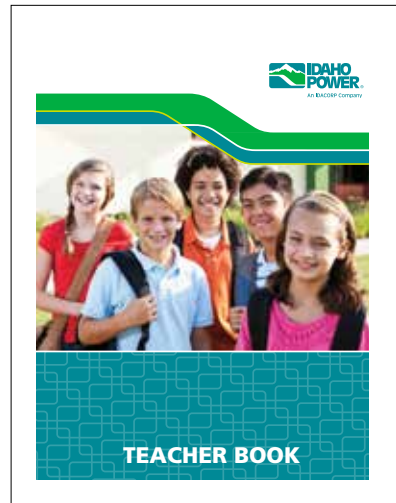
Parent Letter/Pledge Form



Student Guide



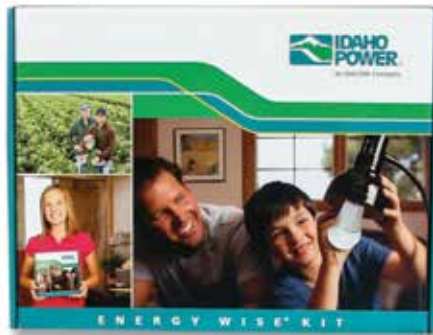
Student Workbook



Teacher Book




Certificate of Achievement



Kit Box



Introduction Video (flash drive) Pen



*“Students enjoyed learning more about energy conservation.”*

**Stephani Little, Teacher**

*Mill Creek Elementary School*


# Program Implementation

The Fall 2019 Idaho Power EnergyWise Program followed this comprehensive implementation schedule:

1. Identification of Idaho and Oregon state and national academic standards & benchmarks
2. Curriculum development and refinement (completed annually)
3. Curriculum correlation to Idaho and Oregon state and national academic standards & benchmarks
4. Materials modification to incorporate Idaho Power branding
5. Incentive program development
6. Teacher/school identification—with Idaho Power approval
7. Teacher outreach and program introduction
8. Teachers enrolled in the program individually
9. Implementation dates scheduled with teachers
10. Program material delivered to coincide with desired implementation date
11. Delivery confirmation
12. Periodic contact to ensure implementation and teacher satisfaction
13. Program completion incentive offered
14. Results collection
15. Program completion incentive delivered to qualifying teachers
16. Thank you cards sent to participating teachers
17. Data analysis
18. Program Summary Report generated and distributed

Participating teachers are free to implement the program to coincide with their lesson plans and class schedules. Appendix F provides a comprehensive list of classrooms in grade 4-6 that participated during the Fall of the 2019-2020 school year.





Franklin Energy has been in the business of designing and implementing energy and water efficiency programs for nearly three decades. Throughout this time we've built an expert team of industry professionals that deliver a seamless program to achieve your goals.

We designed the Idaho Power EnergyWise Program in our program center from the ground up. Working in conjunction with Idaho Power, we identified goals, desired outcomes of the program, and specific materials' customization. The result is a stimulating program that delivers significant and measurable resource savings. The Idaho Power EnergyWise Program features a proven blend of innovative education, comprehensive implementation services, and hands-on activities to put efficiency knowledge to work in homes throughout the Idaho Power service territory.

The Idaho Power EnergyWise Program is a reflection of true teamwork. On behalf of the entire implementation team at Franklin Energy, we would like to thank you for the opportunity to design and implement the Idaho Power EnergyWise Program. It has been a pleasure working with you, we look forward to many more years of program success.

Sincerely,



Chase Griswold  
Program Manager



Libby Wilson  
Director of Program Services

# Program Team

## Program Team

The success of the Idaho Power EnergyWise Program is owed to a cross-functional implementation team chosen specifically to meet the goals of the program. We incorporated both a PMP® certified Program Manager and a CEM® designated energy analyst to ensure the program hits key milestones and delivers results. These thought leaders are supported by an integral mix of specialists working in unity to accomplish your program objectives. The Idaho Power EnergyWise Program implementation team consisted of the following:

## Outreach

Our outreach team is the face of the Idaho Power EnergyWise Program, introducing teachers to the program, and providing support throughout implementation to guarantee the program's success in the classroom. This group builds relationships and keeps teachers engaged in program execution year after year.

## Graphic Design and Marketing

Expertly-designed kits and program materials are a result of our Graphic Design and Marketing teams. This group provides brand alignment and marketing strategies to ensure program branding is within guidelines. Additionally, this team facilitates copy and art direction and works with education to develop end-user activities.

## Education

Led by a Ph.D. educator having both classroom and administration leadership experience, this team is responsible for the development of educational content as well as classroom energy literacy and engagement. The group also ensures the program's content is aligned with Idaho state expectations in science, math, and language as well as the rigorous expectations of STEM (Science, Technology, Engineering, and Math).

## Information Technology

We leave IT strategy and cyber security in the hands of our experts. This team built and manages the integrated systems responsible for seamlessly blending operations, driving automation, and maximizing participation in the Idaho Power EnergyWise Program. This group provides the managed data services and software in support of outreach, enrollment, order processing, fulfillment, data collection and reporting.

## Warehouse and Logistics

Last but not least, our warehouse and logistics teams guarantee Idaho Power EnergyWise Program materials reach the classroom on-time and without errors. This group provides printing, purchasing, production, quality assurance & control, warehousing and shipping for all program materials. Additionally, this team ensures that all materials are consistent with orders and confirms delivery.



*“The students loved getting the kit.  
They were excited to install their  
new goodies.”*

**Emry Smith, Teacher**

*West Canyon Elementary*

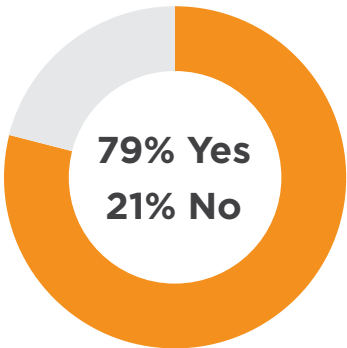
# Program Impact

The Idaho Power EnergyWise Program has had a significant impact within the community. As illustrated below, the program successfully educated participants about energy and water efficiency while generating resource savings through the installation of efficiency measures in homes. Home survey information was collected to track projected savings and provide household consumption and demographic data. Program evaluations and comments were collected from teachers, students, and parents. The following elements were used to collect this data:

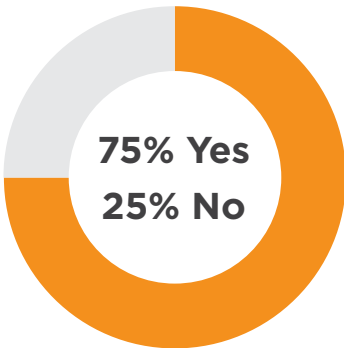
## A. Home Survey

Upon completion of the program, participating families are asked to complete a home survey 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.

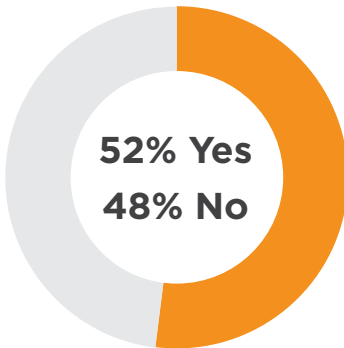
<b>Does your family have a programmable thermostat?</b>	<b>Yes - 79%</b>
<b>Does your family own their home?</b>	<b>Yes - 75%</b>
<b>Did your family change the way they use energy?</b>	<b>Yes - 52%</b>



*Students who indicated that their family has a programmable thermostat.*



*Students who indicated that their family owns their home.*

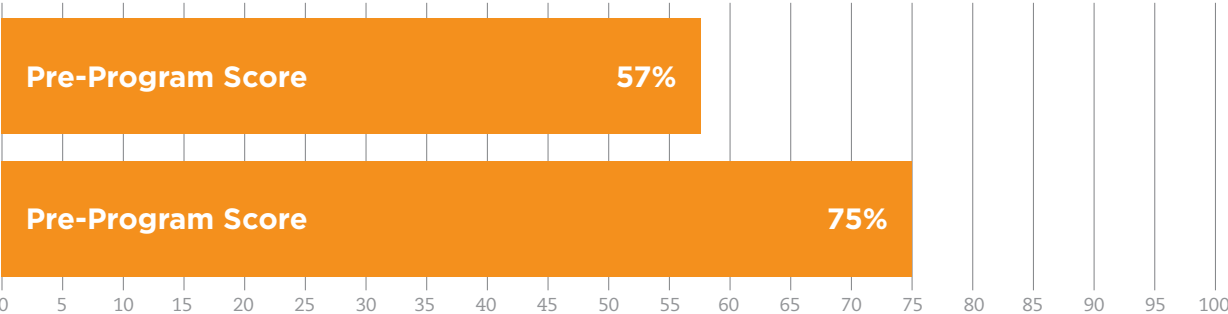


*Students who indicated that their family changed the way they use energy.*

## B. Pre-Program and Post-Program Tests

Students were asked to complete a 10-question test before the program was introduced and then again after it was completed to determine the knowledge gained through the program. The average student answered **5.7** questions correctly prior to being involved in the program and then improved to answer **7.5** questions correctly following participation.

**Scores improved from 57% to 75%.**



## C. Home Activities

As part of the program, parents and students installed resource efficiency measures in their homes. They also measured the pre-existing devices to calculate savings that they generated. Using the family habits collected from the home survey as the basis for this calculation, 5,436 households are expected to save the following resource totals. Savings from these actions and new behaviors will continue for many years to come.

### Projected Resource Savings

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

<b>Number of Participants:</b>	<b>5,436</b>	
	<b>Annual</b>	<b>Lifetime</b>
Projected reduction from Showerhead retrofit:	<b>7,481,717</b>	<b>74,817,167</b> gallons
Product Life: <b>10 years</b>	<b>463,231</b>	<b>4,632,308</b> kWh
	<b>25,993</b>	<b>259,933</b> therms
Projected reduction from first <b>9-watt</b> LED Light Bulb:	<b>143,062</b>	<b>1,716,742</b> kWh
Product Life: <b>25,000 hours</b> (12 years)		
Projected reduction from second <b>9-watt</b> LED Light Bulb:	<b>114,449</b>	<b>1,373,388</b> kWh
Product Life: <b>25,000 hours</b> (12 years)		
Projected reduction from third <b>9-watt</b> LED Light Bulb:	<b>97,730</b>	<b>1,172,757</b> kWh
Product Life: <b>25,000 hours</b> (12 years)		
Projected reduction from LED Night Light retrofit:	<b>114,473</b>	<b>1,144,728</b> kWh
Product Life: <b>10,000 hours</b>		
Projected reduction from FilterTone® installation:	<b>96,356</b>	<b>963,562</b> kWh
Product Life: <b>10 years</b>	<b>4,774</b>	<b>47,741</b> therms
<b>TOTAL PROGRAM SAVINGS:</b>	<b>7,481,717</b>	<b>74,817,167</b> gallons
	<b>1,029,300</b>	<b>11,003,486</b> kWh
	<b>30,767</b>	<b>307,675</b> therms
<b>TOTAL PROGRAM SAVINGS PER HOUSEHOLD:</b>	<b>1,376</b>	<b>13,763</b> gallons
	<b>189</b>	<b>2,024</b> kWh
	<b>6</b>	<b>57</b> therms

\*\*Per Idaho Power's request, the associated savings for the shower timer have not been included in savings totals.

## D. Teacher Program Evaluation

Program improvements are based on participant feedback received. One of the types of feedback obtained is from participating teachers via a Teacher Program Evaluation Form. They are asked to evaluate relevant aspects of the program and each response is reviewed for pertinent information. The following is feedback from the Teacher Program Evaluation for the Idaho Power EnergyWise Program.

### Teacher Response

*(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.

### What did students like best about the program? Explain.

*“They loved to experiment with the different items in the kits.”*

**Jill Mesecher, Mill Creek Elementary School**

*“Having the kits to take home and use.”*

**Courtney Craner, Central Elementary School**

*“The kits, they also enjoyed the night lights.”*

**Staci Miller, Mill Creek Elementary School**

*“They liked activities in the books such as crosswords and the classroom activities, with items such as the nightlight, and shower timer.”*

**Brian Fischer, Eagle Hills Elementary School**

*“The hands-on information and activities.”*

**Matea Schindel, Snake River Elementary**

*“They loved the kits and were dying to take them home.”*

**Karla Miller, Silver Trail Elementary School**

*“The ability to apply what they learned in class at home.”*

**Lindsay Strong, Snake River Elementary**

*“Students were excited about using the kits at home.”*

**Andrea Chester, West Canyon Elementary**

*“They loved the kits and the activities.”*

**Rachel Thomas, Green Acres Elementary School**

## Teacher Response

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

### What did you like best about the program? Explain.

*“Extra science materials with all the visuals.”*

**Courtney Craner, Central Elementary School**

*“The kits, encourages power conservation.”*

**Staci Miller, Mill Creek Elementary School**

*“Easy to use and integrate the content.”*

**Matea Schindel, Snake River Elementary**

*“I liked having the materials handy in the classroom and the student books.”*

**Karla Miller, Silver Trail Elementary School**

*“The real world science for students.”*

**Lindsay Strong, Snake River Elementary**

*“The students were able to report how using the kit changed their energy habits.”*

**Christin Brown, Gate City Elementary School**

*“Can do as little or much as needed.”*

**Kathy Walker, Green Acres Elementary School**

*“The workbooks are on the students level.”*

**Rachel Thomas, Green Acres Elementary School**

*“I liked that the students were able to talk with their parents.”*

**Emry Smith, West Canyon Elementary**

*“Good information, the text provided helped with real life learning.”*

**Julie Bodily, Four Rivers Community School**

### What would you change about the program? Explain.

*“I think it’s very well organized and very easy to use. Thank you!”*

**Christin Brown, Gate City Elementary School**

*“Provide some of the supplies needed for the lessons.”*

**Jill Mesecher, Mill Creek Elementary School**

*“Nothing!”*

**Stephani Little, Mill Creek Elementary School**



## E. Teacher Letters

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

Dear Idaho Power,

Thank you so much for the opportunity to participate in this program! It was a great chance for the students to experience hands on how they can conserve energy and make our city a cleaner and better place to live.

The students really enjoyed receiving their kits and completing the activities at home. I know that many were excited about the simple ways that they can conserve such as using the shower timer, switching out light bulbs, and simply plugging in an LED night light. The ease of the Energy Kits was great for the students, parents, and teacher.

It was such a simple process to go through the text with the students. I loved how organized the materials were and how meaningful the activities were. As a whole, the program is organized extremely well. In fact, I recently sent in a request for an energy kit for my home through Idaho Power.

The students learned a lot about conservation through this program. In fact, during our Passion Project Time (a time students get to research and learn about a topic of their choice) many students were interested in related topics and what they could do to conserve energy and help the environment. It was great to see students take a real interest and dip deeper into a topic that was interesting to them.

I am excited to participate in this program again next year. I hope to be able to spend more time on activities to make the program even more meaningful for the students.

Thank you again for providing schools and students with such a simple, well organized, and meaningful way for students to learn about conservation and energy. It is a great experience for all students!

With much appreciation,

Laura VanDerschaaf  
5<sup>th</sup> Grade - Lake Ridge Elementary

## Teacher Letters

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

**Birch Elementary School  
6900 Birch Lane  
Nampa, ID 83687  
(208) 461-5960**

November 13, 2019

Dear Idaho Power,

I would like to thank you for allowing us to participate in the Energy Wise education program.

The kids learned a lot about energy and how to be more energy efficient in their homes. I think teaching children how to conserve energy has fallen by the wayside, so these lessons help families become more energy conscious at home and at school. The lessons were interesting, easy to teach, and the kids had a fun time installing the items in the kit.

Thanks again for making this program available to our schools and for the monetary donation. We really appreciate it!

Sincerely,



**Mary Jo Pegram  
4<sup>th</sup> Grade Teacher**

## Teacher Letters

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

December 16, 2019



Dear Idaho Power Representatives,

Enclosed you will find my classes student surveys, completed to the best of the students and families abilities.

Thank you for this program and giving us FREE energy wise student kits, student and teacher guides, and other resources to use to learn about conservation of Energy and Resources. The students really liked the activities and readings as well as taking the pledge with their parents and families. I am new to this district this year and this has become one of my favorite projects of the year! I really like how the student guide is laid out and the understanding the kids gain about resources, and how they can conserve energy personally in the real world.

I think it's very important to raise this kind of awareness. It was amazing to see all the "AhHa" moments and how they didn't really think about how a 10-11 year old can make a difference too. The program helped the students realize how they can save energy. I loved that it went along with our new science standards and there was also cross over in curriculum in ELA and Math.

I like that my students were really excited to teach their families how to save energy and how we can make a difference. This program focuses and students using proper vocabulary that was meaningful and made students think about conservation and their future.

Thank you again for this wonderful program.

Sincerely,

A handwritten signature in black ink that reads "Monique Gannon".

Monique Gannon  
5th Grade  
Wilcox Elementary School  
427 Lark Lane  
Pocatello, ID 83201





## Teacher Letters

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

Ponderosa Elementary  
2950 N. Naomi Avenue  
Meridian, ID 83646  
December 19, 2019

Dear Idaho Power,

Thank you so much for providing the materials to complete our unit on energy. The students loved getting the resources. We completed several activities in class and students were reminded to use their take home books to enrich our classroom lessons.

Mr. Weedon's classroom presentations are amazing. I love doing the project after his visit because students have more background knowledge about energy usage and its importance in our environment.

Again, thank you so much for this opportunity. It provides real-life science experiences right in our classroom.

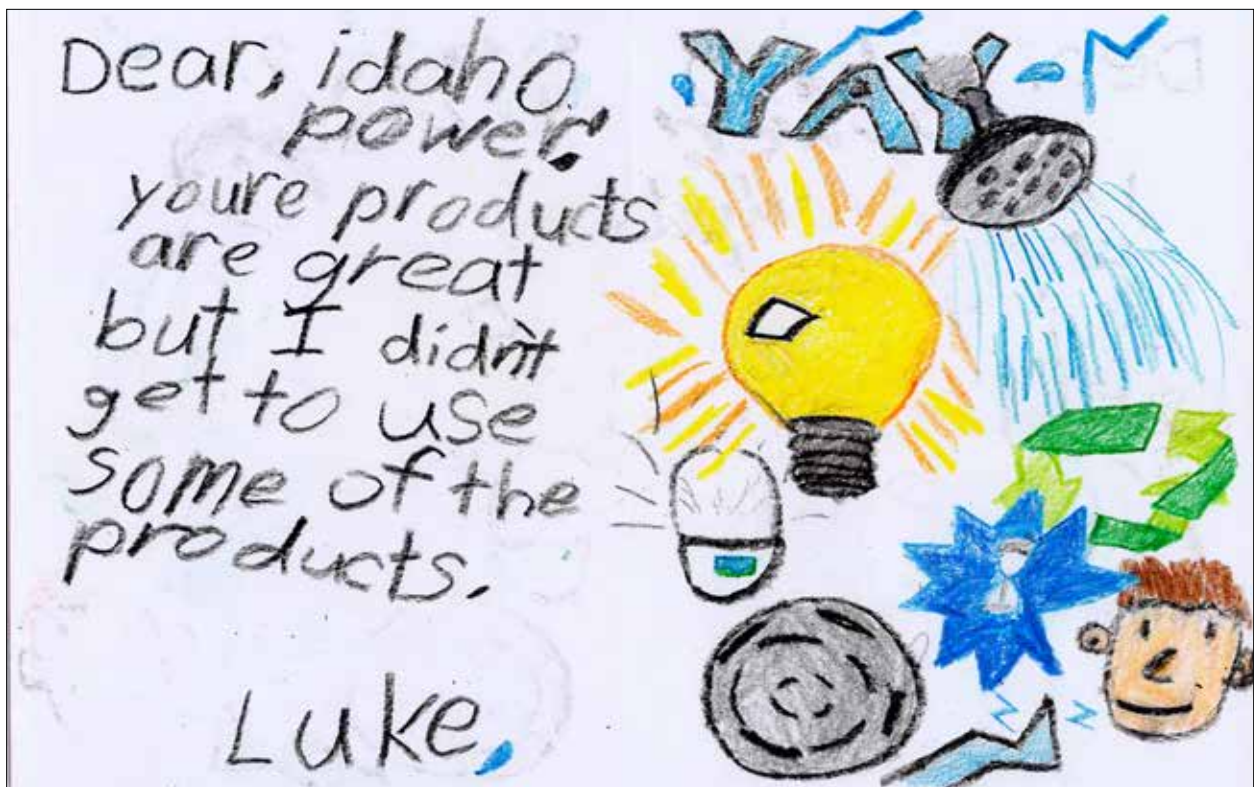
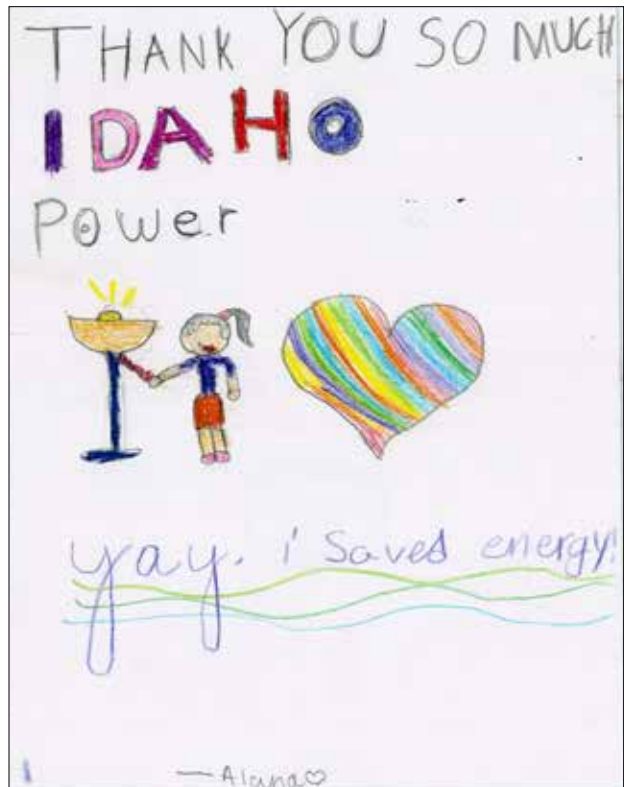
Sincerely,



Debbie Lichter

## F. Student Letters

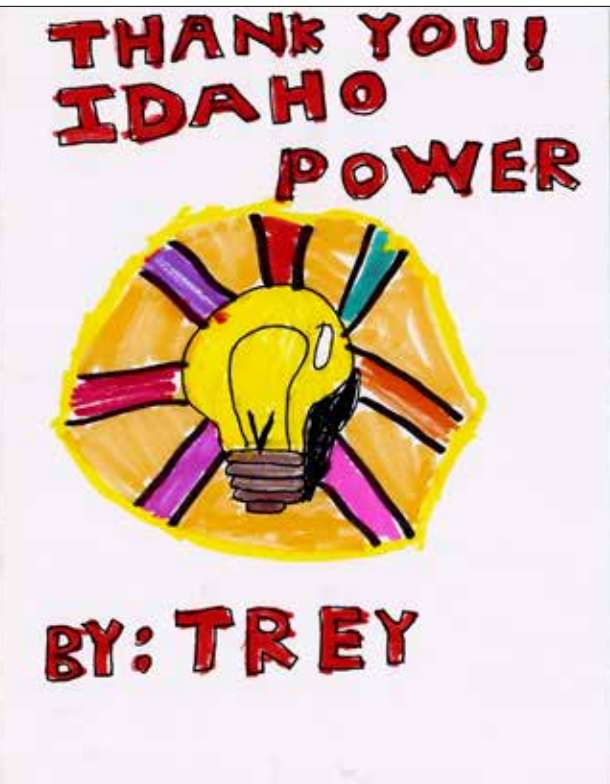
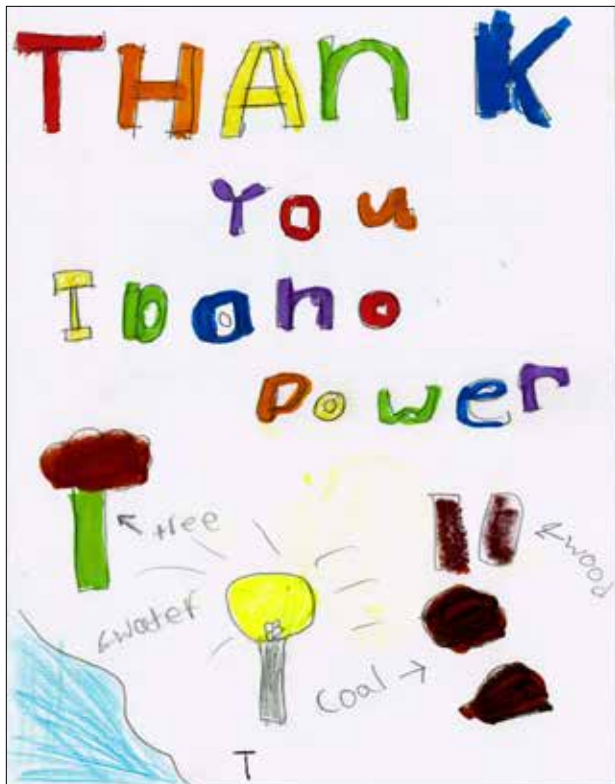
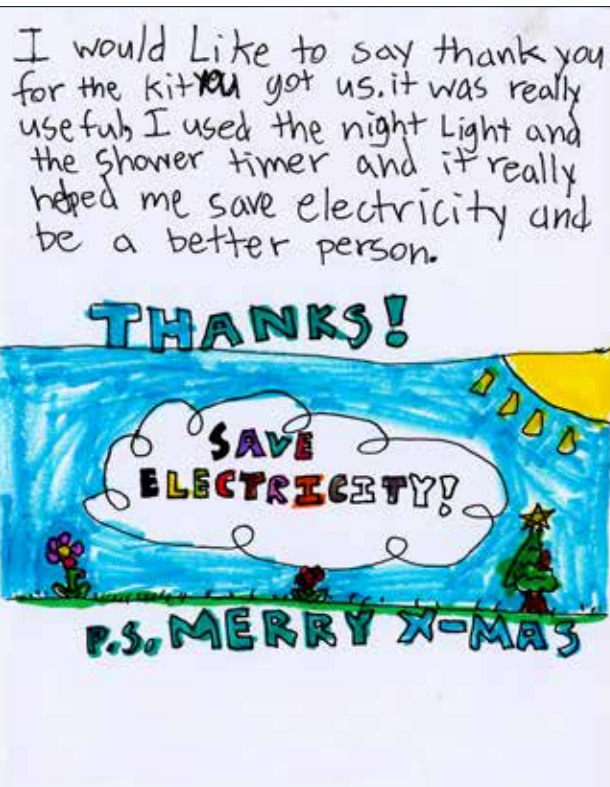
(A summary of responses can be found in Appendix E)





## Student Letters

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



## Student Letters

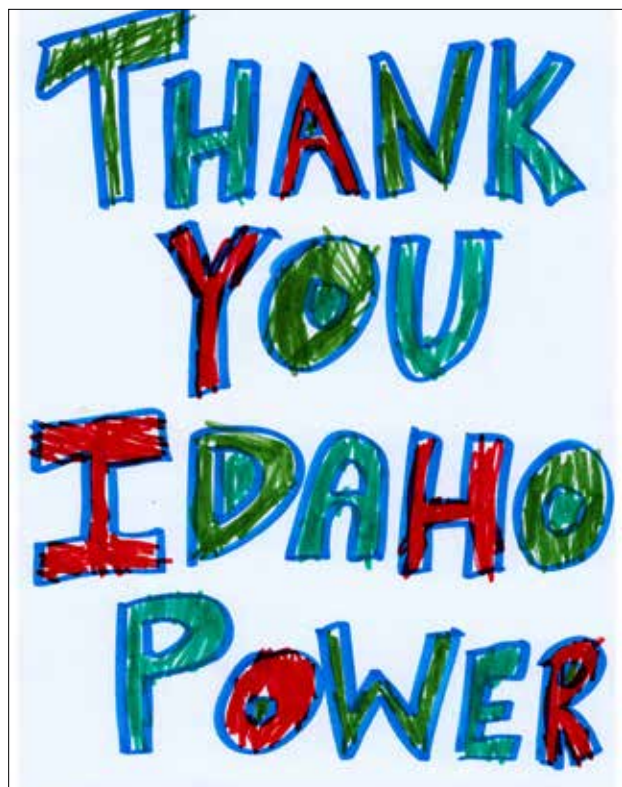
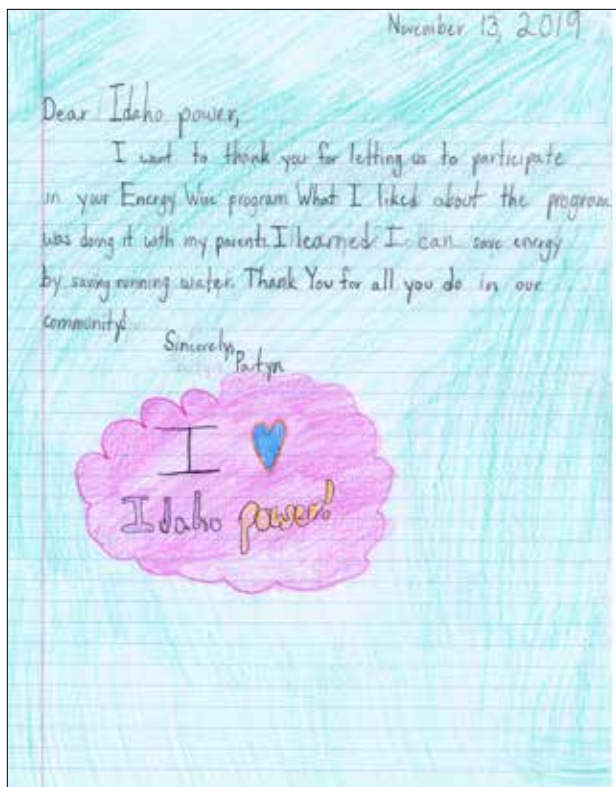
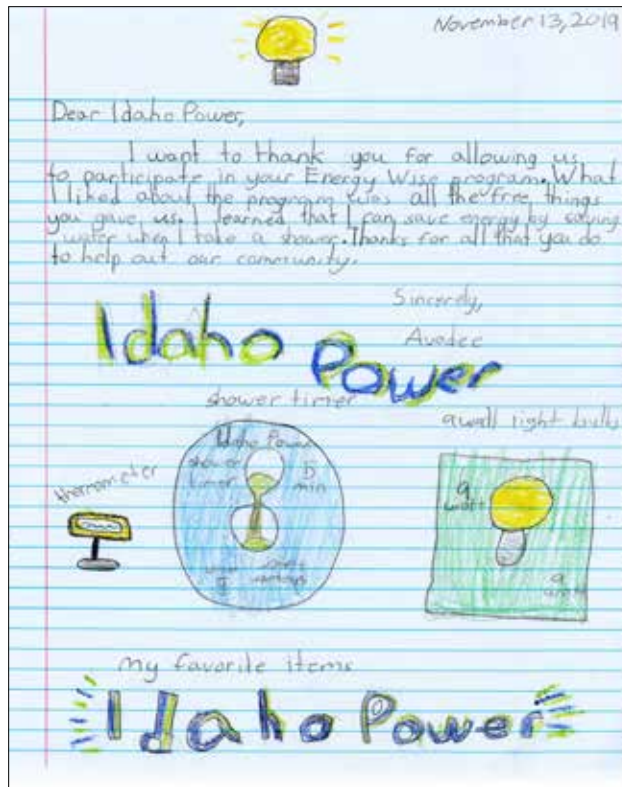
(A summary of responses can be found in Appendix E)





## Student Letters

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







*“As a teacher, I liked the clear  
instructions given for the lessons.”*

**Jill Mesecher, Teacher**

*Mill Creek Elementary School*

# Appendices

## Appendix A

---

Projected Savings from Showerhead Retrofit .....	34
Projected Savings from Shower Timer Installation.....	35
Projected Savings from FilterTone® Alarm Installation.....	36
Projected Savings from First 9-watt LED Retrofit .....	37
Projected Savings from Second 9-watt LED Retrofit .....	38
Projected Savings from Third 9-watt LED Retrofit .....	39
Projected Savings from LED Night Light Retrofit.....	40

## Appendix B

---

Home Check-Up .....	41
Home Activities .....	43

## Appendix C

---

Teacher Program Evaluation Data .....	46
---------------------------------------	----

## Appendix D

---

Teacher Letters .....	47
-----------------------	----

## Appendix E

---

Student Letters .....	49
-----------------------	----

## Appendix F

---

Participant List .....	58
------------------------	----

## Projected Savings from Showerhead Retrofit

### Showerhead Retrofit Inputs and Assumptions:

Average household size:	<b>5.30</b>	people <sup>1</sup>
Average number of full bathrooms per home:	<b>2.18</b>	full bathrooms per home <sup>1</sup>
% of water heated by gas:	<b>52.88%</b>	<sup>1</sup>
% of water heated by electricity:	<b>47.12%</b>	<sup>1</sup>
Installation / participation rate of:	<b>39.42%</b>	<sup>1</sup>
Average Showerhead has a flow rate of:	<b>2.01</b>	gallons per minute <sup>1</sup>
Retrofit Showerhead has a flow rate of:	<b>1.30</b>	gallons per minute <sup>1</sup>
Number of participants:	<b>5,436</b>	<sup>1</sup>
Shower duration:	<b>8.20</b>	minutes per day <sup>2</sup>
Showers per day per person:	<b>0.67</b>	showers per day <sup>2</sup>
Product life:	<b>10</b>	years <sup>3</sup>

### Projected Water Savings:

Showerhead retrofit projects an <b>annual</b> reduction of:	<b>7,481,717</b>	gallons <sup>4</sup>
Showerhead retrofit projects a <b>lifetime</b> reduction of:	<b>74,817,167</b>	gallons <sup>5</sup>

### Projected Electricity Savings:

Showerhead retrofit projects an <b>annual</b> reduction of:	<b>463,231</b>	kWh <sup>2,6</sup>
Showerhead retrofit projects a <b>lifetime</b> reduction of:	<b>4,632,308</b>	kWh <sup>2,7</sup>

### Projected Natural Gas Savings:

Showerhead retrofit projects an <b>annual</b> reduction of:	<b>25,993</b>	therms <sup>2,8</sup>
Showerhead retrofit projects a <b>lifetime</b> reduction of:	<b>259,933</b>	therms <sup>2,9</sup>

<sup>1</sup> Data Reported by Program Participants.

<sup>2</sup> (March 4, 2010). EPA WaterSense® Specification for Showerheads Supporting Statement. Retrieved from [http://www.epa.gov/WaterSense/docs/showerheads\\_finalsupstat508.pdf](http://www.epa.gov/WaterSense/docs/showerheads_finalsupstat508.pdf)

<sup>3</sup> Provided by manufacturer.

<sup>4</sup> [(Average Household Size x Shower Duration x Showers per Day per Person) ÷ Average Number of Full Bathrooms per Home] x (Average Showerhead Flow Rate - Retrofit Showerhead Flow Rate) x Number of Participants x Installation Rate x 365 days

<sup>5</sup> [(Average Household Size x Shower Duration x Showers per Day per Person) ÷ Average Number of Full Bathrooms per Home] x (Average Showerhead Flow Rate - Retrofit Showerhead Flow Rate) x Number of Participants x Installation Rate x 365 days x Product Life

<sup>6</sup> Projected Annual Water Savings x Percent of Water that is Hot Water x 0.18 kWh/gal x % of Water Heated by Electricity

<sup>7</sup> Projected Annual Water Savings x Percent of Water that is Hot Water x 0.18 kWh/gal x % of Water Heated by Electricity x Product Life

<sup>8</sup> Projected Annual Water Savings x Percent of Water that is Hot Water x 0.009 Therms/gal x % of Water Heated by Natural Gas

<sup>9</sup> Projected Annual Water Savings x Percent of Water that is Hot Water x 0.009 Therms/gal x % of Water Heated by Natural Gas x Product Life

## Projected Savings from Shower Timer Installation

### \*\*Shower Timer Inputs and Assumptions:

% of water heated by gas:	<b>52.88%</b>	<sup>1</sup>
% of water heated by electricity:	<b>47.12%</b>	<sup>1</sup>
Installation / participation rate of Shower Timer:	<b>68.21%</b>	<sup>1</sup>
Average showerhead has a flow rate of:	<b>2.01</b>	gallons per minute <sup>1</sup>
Retrofit showerhead has flow rate of:	<b>1.30</b>	gallons per minute <sup>1</sup>
Number of participants:	<b>5,436</b>	<sup>1</sup>
Average of baseline and retrofit showerhead flow rate:	<b>1.65</b>	gallons per minute <sup>2</sup>
Shower duration:	<b>8.20</b>	minutes per day <sup>3</sup>
Shower timer duration:	<b>5.00</b>	minutes per day <sup>4</sup>
Showers per capita per day (SPCD):	<b>0.67</b>	showers per day <sup>3</sup>
Percent of water that is hot water:	<b>73%</b>	<sup>5</sup>
Days per year:	<b>365.00</b>	days
Product life:	<b>2.00</b>	years <sup>5</sup>

### Projected Water Savings:

Shower Timer installation projects an <b>annual</b> reduction of:	<b>4,802,132.49</b>	gallons <sup>6</sup>
Shower Timer installation projects a <b>lifetime</b> reduction of:	<b>9,604,264.98</b>	gallons <sup>7</sup>

### Projected Electricity Savings:

Shower Timer installation projects an <b>annual</b> reduction of:	<b>297,324</b>	kWh <sup>8</sup>
Shower Timer installation projects a <b>lifetime</b> reduction of:	<b>594,649</b>	kWh <sup>9</sup>

### Projected Natural Gas Savings:

Shower Timer installation projects an <b>annual</b> reduction of:	<b>16,684</b>	therms <sup>10</sup>
Shower Timer installation projects a <b>lifetime</b> reduction of:	<b>33,368</b>	therms <sup>11</sup>

<sup>1</sup> Data Reported by Program Participants.

<sup>2</sup> Average of the baseline GPM and the retrofit GPM

<sup>3</sup> (March 4, 2010). EPA WaterSense® Specification for Showerheads Supporting Statement. Retrieved from [http://www.epa.gov/WaterSense/docs/showerheads\\_finalsupstat508.pdf](http://www.epa.gov/WaterSense/docs/showerheads_finalsupstat508.pdf)

<sup>4</sup> Provided by manufacturer.

<sup>5</sup> Navigant EM&V Report for Super Savers Program in Illinois PY7

<sup>6</sup> Annual water savings = Water Flow (Average of baseline and retrofit flow) × (Baseline Shower duration - Shower Timer duration) × Participants × Days per year × SPCD × Installation Rate of Shower Timer

<sup>7</sup> Projected Annual Water Savings x Product Life

<sup>8</sup> Projected Annual Water Savings x Percent of Water that is Hot Water x 0.18 kWh/gal x % of Water Heated by Electricity x Participants

<sup>9</sup> Projected Annual Water Savings x Percent of Water that is Hot Water x 0.18 kWh/gal x % of Water Heated by Electricity x Product Life x Participants

<sup>10</sup> Projected Annual Water Savings x Percent of Water that is Hot Water x 0.009 Therms/gal x % of Water Heated by Natural Gas x Participants

<sup>11</sup> Projected Annual Water Savings x Percent of Water that is Hot Water x 0.009 Therms/gal x % of Water Heated by Natural Gas x Product Life x Participants

\*\*Per Idaho Power's request, the associated savings for the shower timer have not been included in savings totals

## Projected Savings from FilterTone® Alarm Installation

### FilterTone® Installation Inputs and Assumptions:

Annual energy (electricity) use by a central air conditioner:	<b>4,467</b> kWh <sup>1</sup>
Annual energy (natural gas) use by a central space heating or furnace:	<b>421</b> therms <sup>1</sup>
Projected increase in efficiency (electricity):	<b>1.75%</b> <sup>2</sup>
Projected increase in efficiency (natural gas):	<b>0.92%</b> <sup>2</sup>
Product life:	<b>10</b> years <sup>3</sup>
Installation / participation rate of:	<b>22.67%</b> <sup>4</sup>
Number of participants:	<b>5,436</b> <sup>4</sup>

### Projected Electricity Savings:

The FilterTone installation projects an <b>annual</b> reduction of:	<b>96,356</b> kWh <sup>5</sup>
The FilterTone installation projects a <b>lifetime</b> reduction of:	<b>963,562</b> kWh <sup>6</sup>

### Projected Natural Gas Savings:

The FilterTone installation projects an <b>annual</b> reduction of:	<b>4,774</b> therms <sup>7</sup>
The FilterTone installation projects a <b>lifetime</b> reduction of:	<b>47,741</b> therms <sup>8</sup>

<sup>1</sup> U.S. Department of Energy, Energy Information Administration 2005 Residential Energy Consumption Web site for Mountain West States: <http://www.eia.gov/consumption/residential/data/2005/>

<sup>2</sup> Reichmuth P.E., Howard. (1999). Engineering Review and Savings Estimates for the 'Filtertone' Filter Restriction Alarm.

<sup>3</sup> Provided by manufacturer.

<sup>4</sup> Data reported by program participants.

<sup>5</sup> Annual energy (electricity) use by a central air conditioner, heat pump or furnace x Projected increase in efficiency (electricity) x Installation rate x Number of participants

<sup>6</sup> Annual energy (electricity) use by a central air conditioner, heat pump or furnace x Projected increase in efficiency (electricity) x Installation rate x Number of participants x Product life

<sup>7</sup> Annual energy (natural gas) use by a central air conditioner, heat pump or furnace x Projected increase in efficiency (natural gas) x Installation rate x Number of participants

<sup>8</sup> Annual energy (natural gas) use by a central air conditioner, heat pump or furnace x Projected increase in efficiency (natural gas) x Installation rate x Number of participants x Product life

## Projected Savings from First 9-watt LED Retrofit

### LED Retrofit Inputs and Assumptions:

Product life:	25,000	hours <sup>1</sup>
Watts used by the LED light bulb:	9	watts <sup>1</sup>
Hours of operation per day:	2.81	hours per day <sup>2</sup>
Watts used by the replaced incandescent light bulb:	58.63	watts <sup>3</sup>
Installation / participation rate of:	51.70%	<sup>3</sup>
Number of participants:	5,436	<sup>3</sup>

### Projected Electricity Savings:

The LED retrofit projects an <b>annual</b> reduction of:	143,062	kWh <sup>2,4</sup>
The LED retrofit projects a <b>lifetime</b> reduction of:	1,716,742	kWh <sup>2,5</sup>

<sup>1</sup> Provided by manufacturer.

<sup>2</sup> Frontier Associates. (2011). Oncor's LivingWise Program: Measurement & Verification Update.

<sup>3</sup> Data reported by program participants.

<sup>4</sup>  $\{[(\text{Wattage of incandescent light bulb replaced} - \text{Wattage of LED light bulb}) \times \text{Hours of operation per day} \times 365 \text{ Days}] \div 1,000\} \times \text{Number of participants} \times \text{Installation rate}$

<sup>5</sup>  $\{[(\text{Wattage of incandescent light bulb replaced} - \text{Wattage of LED light bulb}) \times 12 \text{ years}] \div 1,000\} \times \text{Number of participants} \times \text{Installation rate}$

## Projected Savings from Second 9-watt LED Retrofit

### LED Retrofit Inputs and Assumptions:

Product life:	25,000	hours <sup>1</sup>
Watts used by the LED light bulb:	9	watts <sup>1</sup>
Hours of operation per day:	2.81	hours per day <sup>2</sup>
Watts used by the replaced incandescent light bulb:	56.70	watts <sup>3</sup>
Installation / participation rate of:	43.03%	<sup>3</sup>
Number of participants:	5,436	<sup>3</sup>

### Projected Electricity Savings:

The LED retrofit projects an <b>annual</b> reduction of:	114,449	kWh <sup>2,4</sup>
The LED retrofit projects a <b>lifetime</b> reduction of:	1,373,388	kWh <sup>2,5</sup>

<sup>1</sup> Provided by manufacturer.

<sup>2</sup> Frontier Associates. (2011). Oncor's LivingWise Program: Measurement & Verification Update.

<sup>3</sup> Data reported by program participants.

<sup>4</sup>  $\{[(\text{Wattage of incandescent light bulb replaced} - \text{Wattage of LED light bulb}) \times \text{Hours of operation per day} \times 365 \text{ Days}] \div 1,000\} \times \text{Number of participants} \times \text{Installation rate}$

<sup>5</sup>  $\{[(\text{Wattage of incandescent light bulb replaced} - \text{Wattage of LED light bulb}) \times 12 \text{ years}] \div 1,000\} \times \text{Number of participants} \times \text{Installation rate}$

## Projected Savings from Third 9-watt LED Retrofit

### LED Retrofit Inputs and Assumptions:

Product life:	25,000	hours <sup>1</sup>
Watts used by the LED light bulb:	9	watts <sup>1</sup>
Hours of operation per day:	2.81	hours per day <sup>2</sup>
Watts used by the replaced incandescent light bulb:	56.99	watts <sup>3</sup>
Installation / participation rate of:	36.52%	<sup>3</sup>
Number of participants:	5,436	<sup>3</sup>

### Projected Electricity Savings:

The LED retrofit projects an <b>annual</b> reduction of:	97,730	kWh <sup>2,4</sup>
The LED retrofit projects a <b>lifetime</b> reduction of:	1,172,757	kWh <sup>2,5</sup>

<sup>1</sup> Provided by manufacturer.

<sup>2</sup> Frontier Associates. (2011). Oncor's LivingWise Program: Measurement & Verification Update.

<sup>3</sup> Data reported by program participants.

<sup>4</sup>  $\{[(\text{Wattage of incandescent light bulb replaced} - \text{Wattage of LED light bulb}) \times \text{Hours of operation per day} \times 365 \text{ Days}] \div 1,000\} \times \text{Number of participants} \times \text{Installation rate}$

<sup>5</sup>  $\{[(\text{Wattage of incandescent light bulb replaced} - \text{Wattage of LED light bulb}) \times 12 \text{ years}] \div 1,000\} \times \text{Number of participants} \times \text{Installation rate}$



## Projected Savings from LED Night Light Retrofit

### Energy Efficient Night Light Retrofit Inputs and Assumptions:

Average length of use:	4,380	hours per year <sup>1</sup>
Average night light uses:	7	watts
Retrofit night light uses:	0.5	watts
Product life:	10	years <sup>2</sup>
Energy saved per year:	28	kWh per year
Energy saved over life expectancy:	285	kWh
Installation / participation rate of:	73.97%	<sup>3</sup>
Number of participants:	5,436	<sup>3</sup>

### Projected Electricity Savings:

The Energy Efficient Night Light retrofit projects an <b>annual</b> reduction of:	114,473	kWh <sup>4</sup>
The Energy Efficient Night Light retrofit projects a <b>lifetime</b> reduction of:	1,144,728	kWh <sup>5</sup>

<sup>1</sup> Assumption (12 hours per day)

<sup>2</sup> Product life provided by manufacturer

<sup>3</sup> Data reported by program participants

<sup>4</sup>(kWh per year x Number of participants) x Installation rate

<sup>5</sup>((kWh per year x Number of participants) x Installation rate) x Effective useful life

## Home Check-Up

---

<b>1</b> What type of home do you live in?	
Single Family Home (Mobile)	9%
Single Family Home (Manufactured)	6%
Single Family Home (Built)	68%
Multi-Family (2-4 units)	11%
Multi-Family (5-20 units)	6%
Multi-Family (21+ units)	1%
<b>2</b> Was your home built before 1992?	
Yes	37%
No	63%
<b>3</b> Is your home owned or rented?	
Owned	75%
Rented	25%
<b>4</b> How many kids live in your home (age 0-17)?	
1	10%
2	29%
3	26%
4	17%
5+	19%
<b>5</b> How many adults live in your home (age 18+)?	
1	9%
2	69%
3	14%
4	5%
5+	3%
<b>6</b> Does your home have a programmable outdoor sprinkler system?	
Yes	69%
No	31%
<b>7</b> Does your home have a programmable thermostat?	
Yes	79%
No	21%

*Due to rounding of numbers, percentages may not add up to 100%*

## Home Check-Up

(continued)

<b>8</b>	What is the main source of heating in your home?	
	Natural Gas	41%
	Electric Heater	39%
	Propane	4%
	Heating Oil	2%
	Wood	5%
	Other	9%
<b>9</b>	What type of air conditioning unit do you have?	
	Central Air Conditioner	71%
	Evaporative Cooler	6%
	Room Unit	13%
	Don't Have One	10%
<b>10</b>	Does your home have a Dishwasher?	
	Yes	88%
	No	12%
<b>11</b>	How many half-bathrooms are in your home?	
	0	56%
	1	36%
	2	6%
	3	2%
	4+	1%
<b>12</b>	How many full bathrooms are in your home?	
	1	17%
	2	54%
	3	23%
	4	5%
	5+	1%
<b>13</b>	How many toilets are in your home?	
	1	13%
	2	38%
	3	36%
	4	10%
	5+	3%
<b>14</b>	How is your water heated?	
	Natural Gas	53%
	Electricity	47%

Due to rounding of numbers, percentages may not add up to 100%

## Home Activities

<b>1</b> What is the flow rate of your old showerhead?	
0 - 1.0 GPM	11%
1.1 - 1.5 GPM	21%
1.6 - 2.0 GPM	18%
2.1 - 2.5 GPM	21%
2.6 - 3.0 GPM	17%
3.1+ GPM	11%
<b>2</b> Did you install the new High-Efficiency Showerhead?	
Yes	37%
No	63%
<b>3</b> If you answered "yes" to question 2, what is the flow rate of your new showerhead?	
0 - 1.0 GPM	23%
1.1 - 1.5 GPM	40%
1.6 - 2.0 GPM	37%
<b>4</b> Did you use the Shower Timer?	
Yes	68%
No	32%
<b>5</b> Did your family install the first 9-watt LED Light Bulb?	
Yes	52%
No	48%
<b>6</b> If you answered "yes" to question 5, what is the wattage of the incandescent bulb you replaced?	
40-watt	17%
60-watt	40%
75-watt	12%
100-watt	11%
Other	21%
<b>7</b> Did your family install the second 9-watt LED Light Bulb?	
Yes	43%
No	57%
<b>8</b> If you answered "yes" to question 7, what is the wattage of the incandescent bulb you replaced?	
40-watt	18%
60-watt	41%
75-watt	10%
100-watt	8%
Other	22%

*Due to rounding of numbers, percentages may not add up to 100%*

## Home Activities

(continued)

<b>9</b> Did your family install the third 9-watt LED Light Bulb?	
Yes	37%
No	63%
<b>10</b> If you answered "yes" to question 9, what is the wattage of the incandescent bulb you replaced?	
40-watt	18%
60-watt	40%
75-watt	10%
100-watt	9%
Other	23%
<b>11</b> Did your family install the FilterTone <sup>®</sup> Alarm?	
Yes	23%
No	77%
<b>12</b> How much did your family turn down the thermostat in winter for heating?	
1 - 2 Degrees	18%
3 - 4 Degrees	20%
5+ Degrees	17%
Didn't Adjust Thermostat	45%
<b>13</b> How much did your family turn up the thermostat in summer for cooling?	
1 - 2 Degrees	19%
3 - 4 Degrees	18%
5+ Degrees	18%
Didn't Adjust Thermostat	44%
<b>14</b> Did you install the LED Night Light?	
Yes	74%
No	26%
<b>15</b> Did your family lower your water heater settings?	
Yes	25%
No	75%
<b>16</b> Did your family raise the temperature on your refrigerator?	
Yes	19%
No	81%
<b>17</b> Did you complete the optional online energy use activity?	
All of it	6%
Some of it	17%
None	78%

Due to rounding of numbers, percentages may not add up to 100%

## Home Activities

---

(continued)

<b>18</b> Did you work with your family on this Program?	
Yes	55%
No	45%
<b>19</b> Did your family change the way they use water?	
Yes	49%
No	51%
<b>20</b> Did your family change the way they use energy?	
Yes	52%
No	48%
<b>21</b> How would you rate the Idaho Power EnergyWise® Program?	
Great	50%
Pretty Good	36%
Okay	11%
Not So Good	3%

*Due to rounding of numbers, percentages may not add up to 100%*

## Teacher Program Evaluation Data

<b>Total Teachers Returning Student Surveys</b>	49	
<b>Total Teachers Returning Teacher Evaluations</b>	17	
<b>1</b> The materials were clearly written and well organized.	Number	Percent
Strongly Agree	9	53%
Agree	8	47%
Disagree	0	0%
Strongly Disagree	0	0%
<b>2</b> The products in the Kit were easy for students to use.		
Strongly Agree	10	63%
Agree	6	38%
Disagree	0	0%
Strongly Disagree	0	0%
<b>3</b> Students indicated that their parents supported the program.		
Yes	15	94%
No	1	6%
<b>4</b> Would you conduct this Program again?		
Yes	16	100%
No	0	0%
<b>5</b> Would you recommend this program to other colleagues?		
Yes	16	100%
No	0	0%
<b>6</b> If my school is eligible for participation next year, I would like to enroll.		
Yes	15	94%
No	1	6%

*Due to rounding of numbers, percentages may not add up to 100%*

## Teacher Letters

(continued from page 24)

Dear Idaho Power Energywise Program:

Thank you for the opportunity to do the Energywise Program with my students! It was a lot of fun and very informative. My students were excited to get light bulbs, a shower head and a new night light. Because of the population my school services, anytime students get items for their home, they are grateful.

I would love to have the opportunity to participate in the program again next year, if it is available. The activities fit well into our Science and Social Studies units and the students love having something different to do, rather than the same old lessons we do on a regular basis.

Thank you again for this opportunity! We greatly appreciate it!

Have a Merry Christmas and Happy New Year!

Sincerely,

  
Lindsay Mangum



## Teacher Letters

(continued)

December 18, 2019

Dear Idaho Power,

Thank you SO much for sponsoring the Energy Wise program we used again this year. This was my fifth year using the program and I feel like the program provides my students with important information that they can use to help their families conserve energy and protect our natural resources. This year I was not able to spend as much time presenting the content in class due to other school requirements, however my team is hoping to incorporate this program into a Project Based Learning (PBL) activity. This program will also fit very well into our districts new curriculum next year. Although the time we had available in class was not as much as I would have hoped my students still had some valuable discussions and made connections to how our use of energy impacts the resources we have available.

As I mentioned above, I hope to participate in the program again next year and make it a more personal learning activity by incorporating it into a PBL unit. I always enjoy seeing my students' reactions when we talk about how much energy different appliances use, especially their video game consoles. Several of my students expressed they installed several of the kit items and they were very impressed with how much light the LED lights provided. I noticed throughout the program how much my kids were engaged in the discussions and they seemed to understand the importance of conserving energy and other natural resources.

Thank you again for sponsoring this program, it is such a great way of teaching students the importance of conservation, as well as how easy it can be to do it.

Sincerely,



Tanya Scheibe

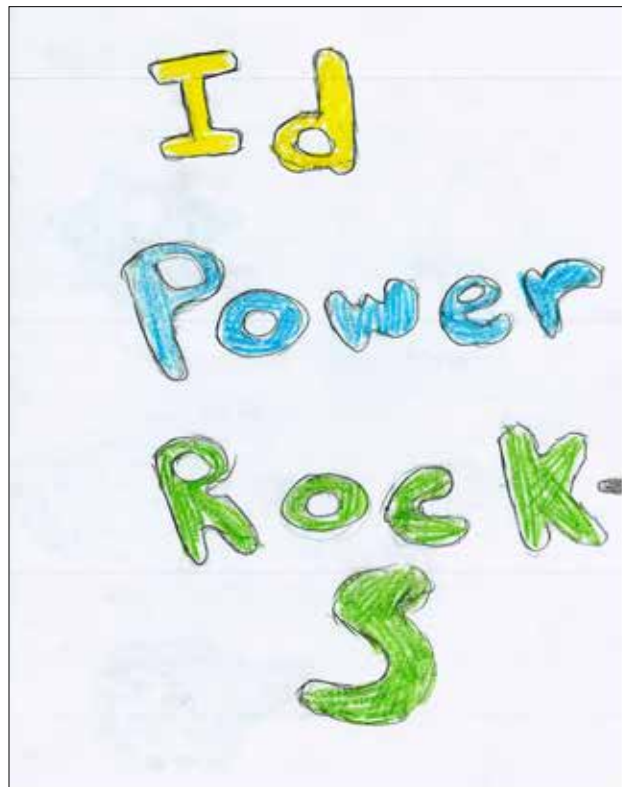
Lake Ridge Elementary

615 Burk LN

Nampa, ID 83686

## Student Letters

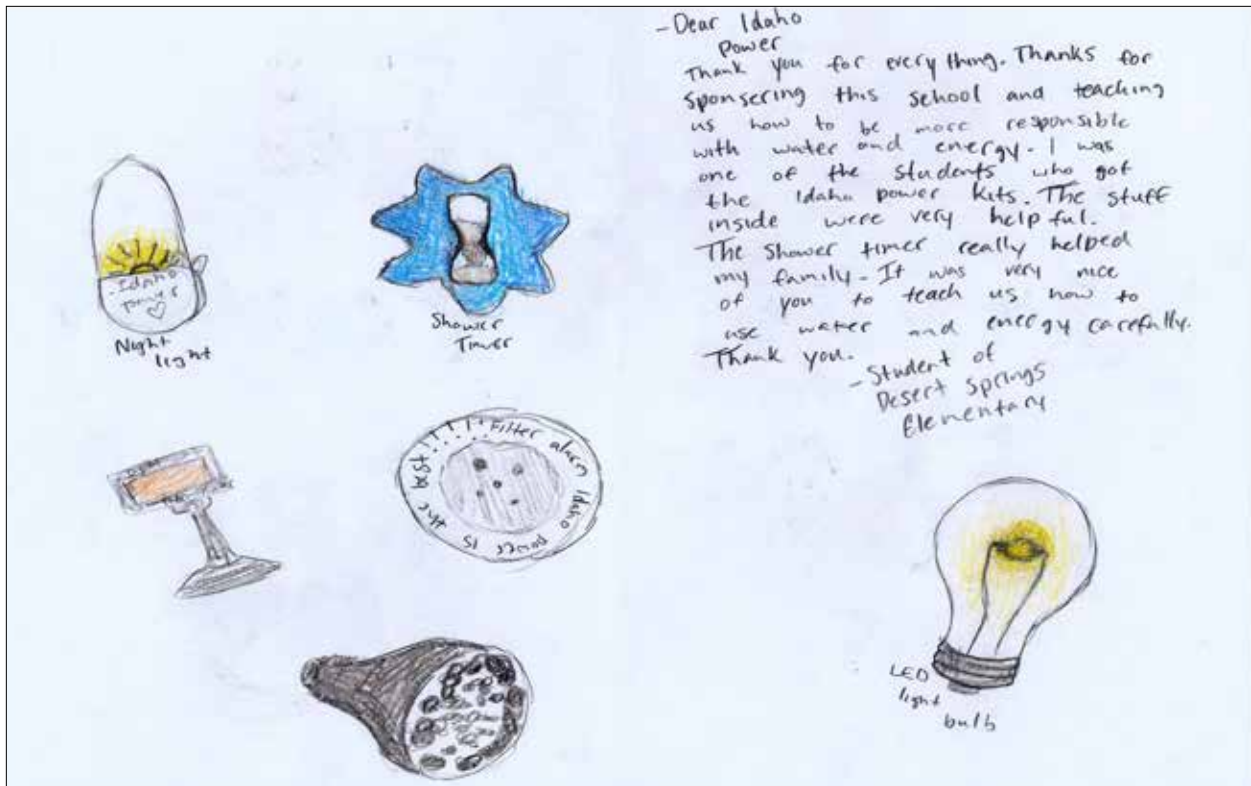
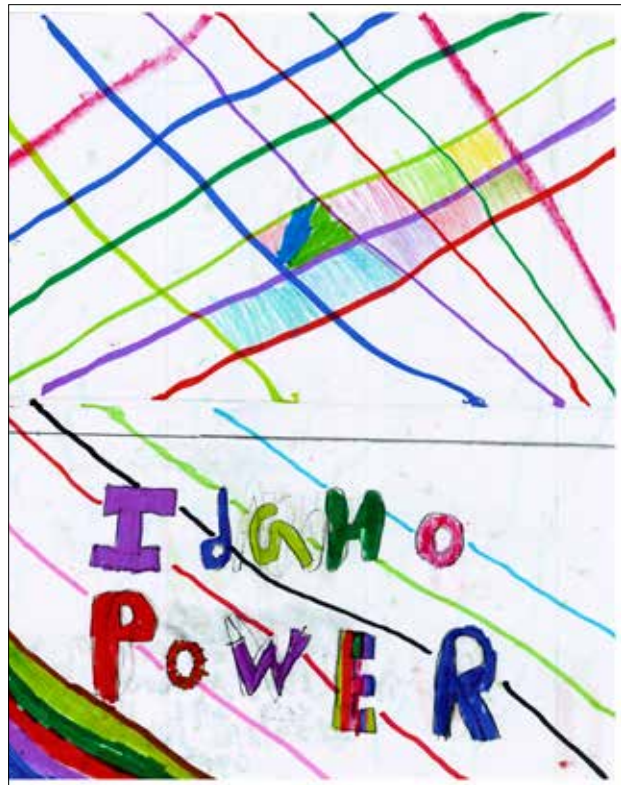
(continued from page 28)





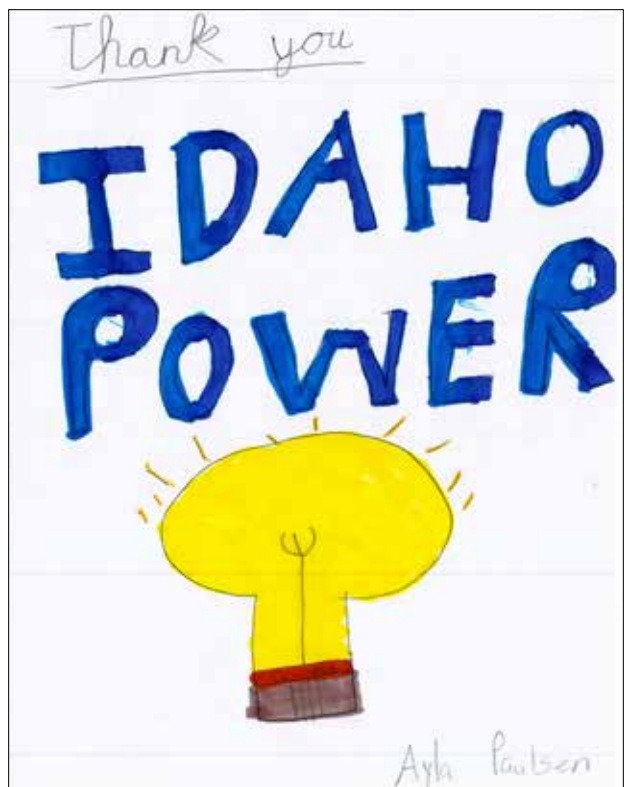
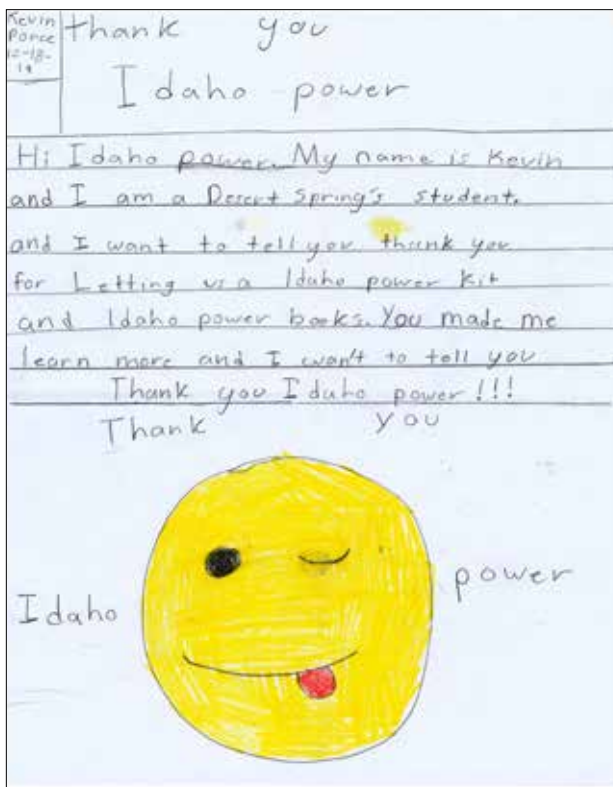
Student Letters

(continued)



Student Letters

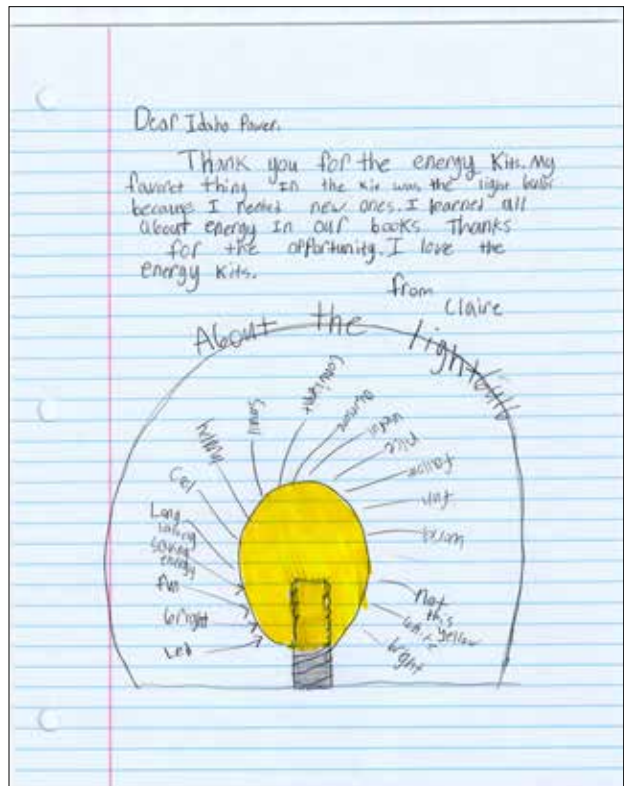
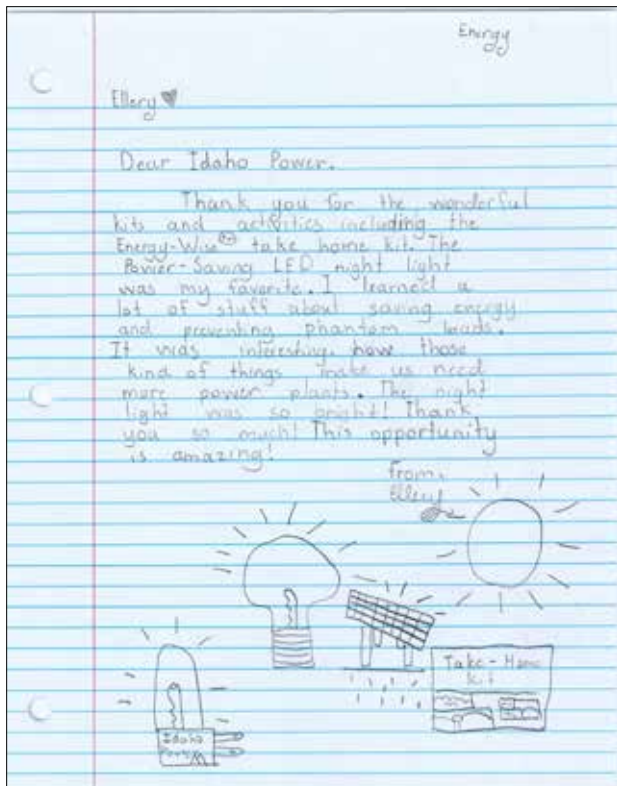
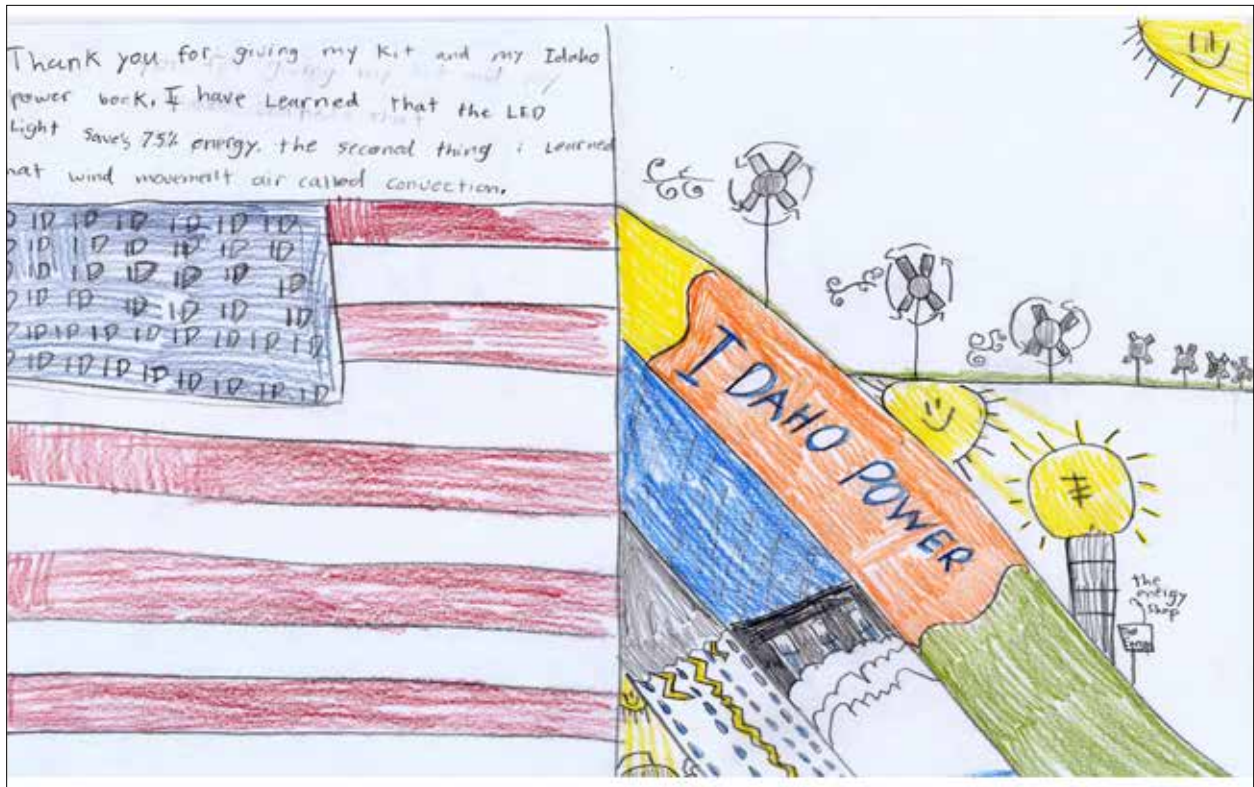
(continued)





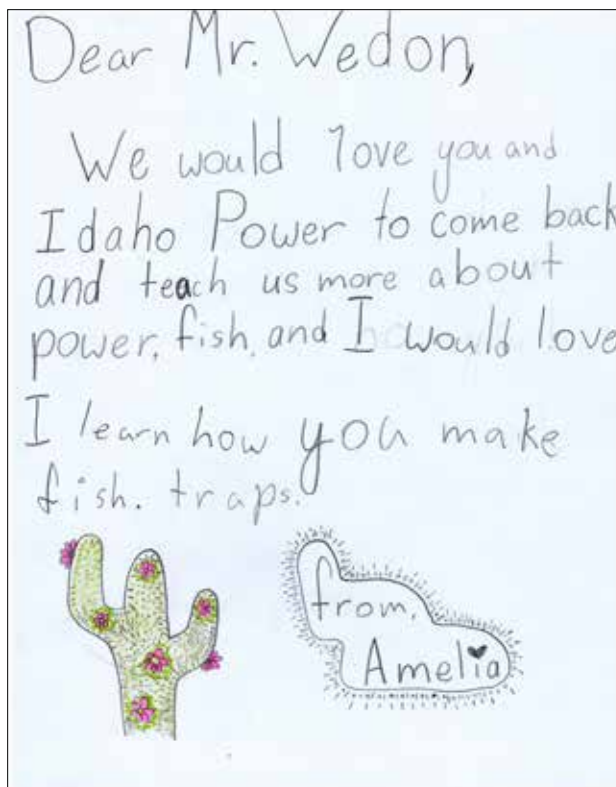
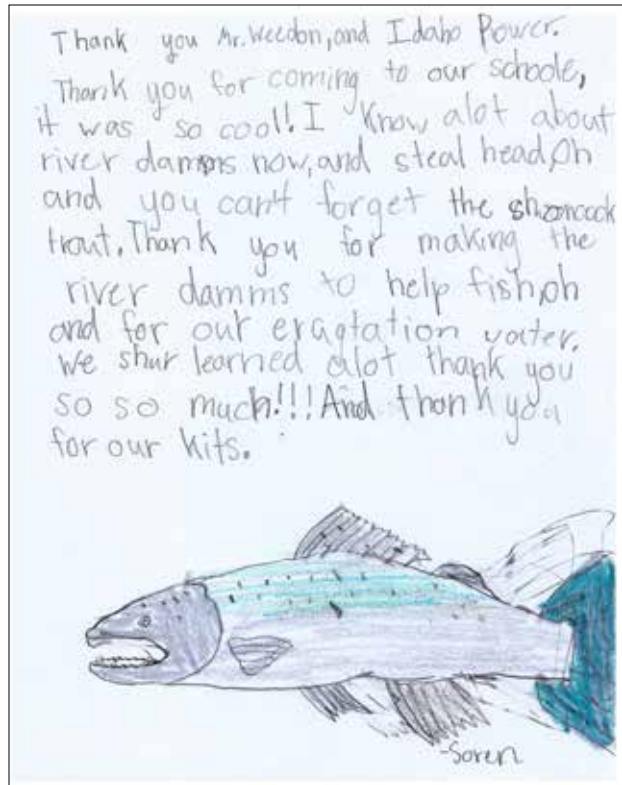
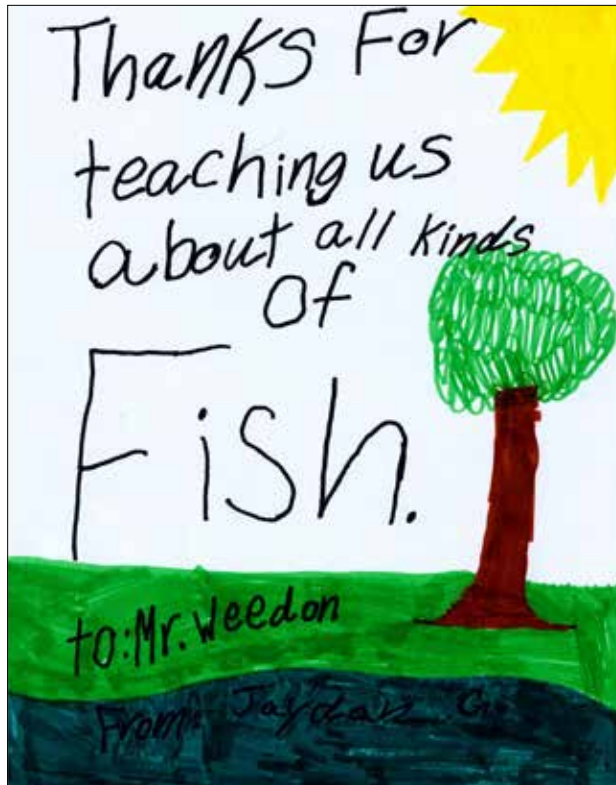
## Student Letters

(continued)



## Student Letters

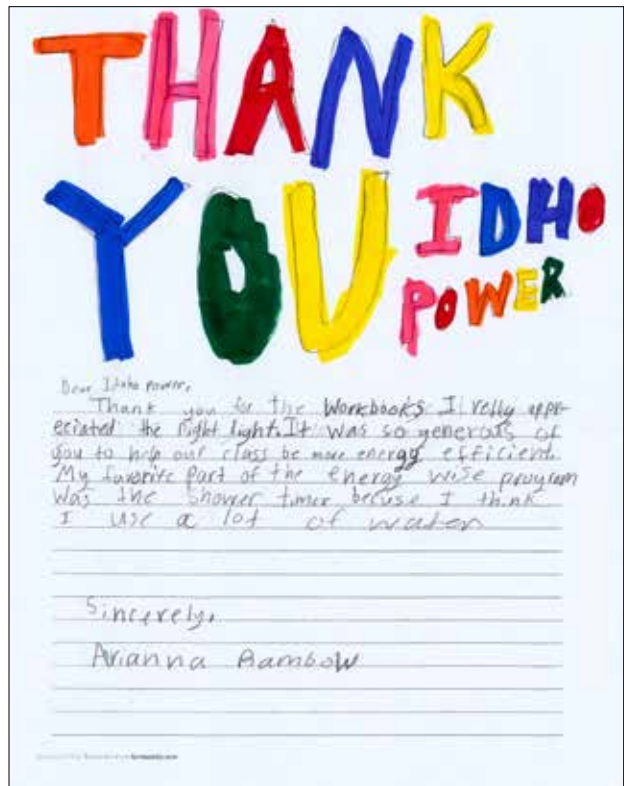
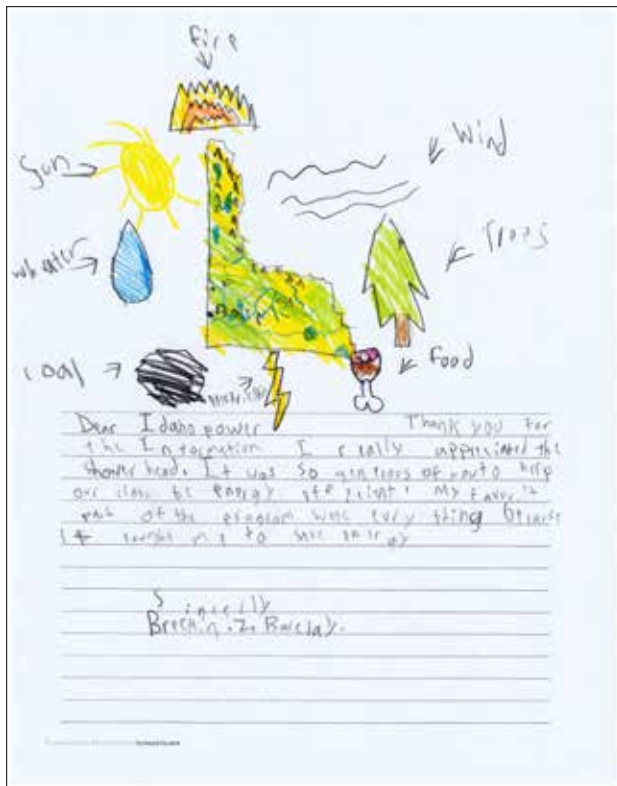
(continued)





Student Letters

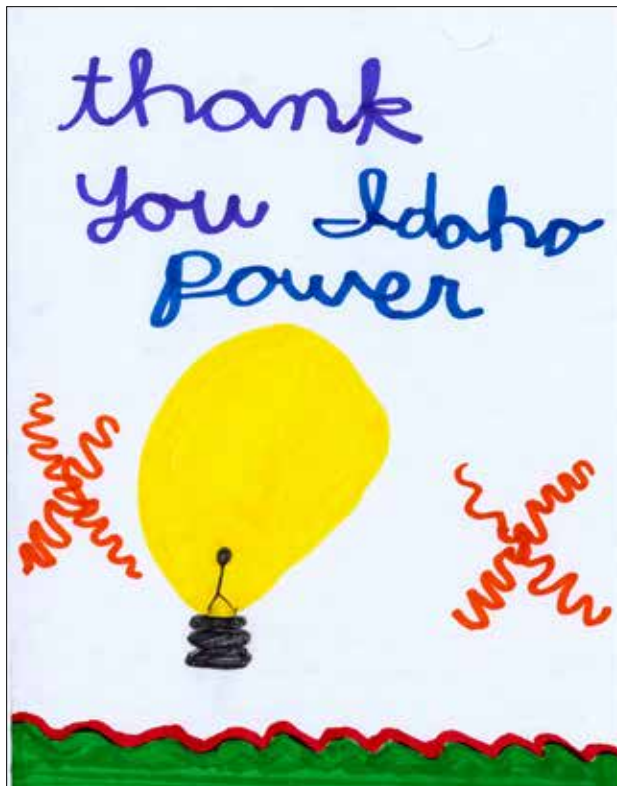
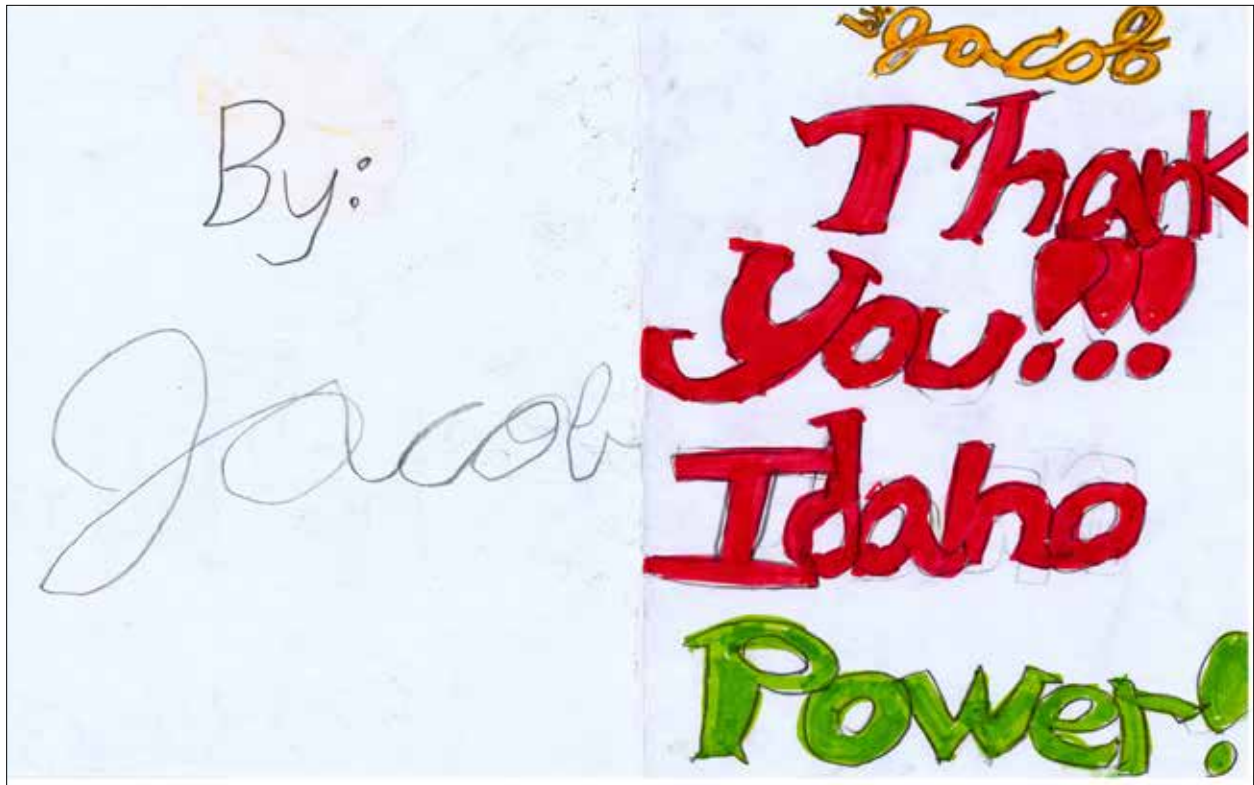
(continued)





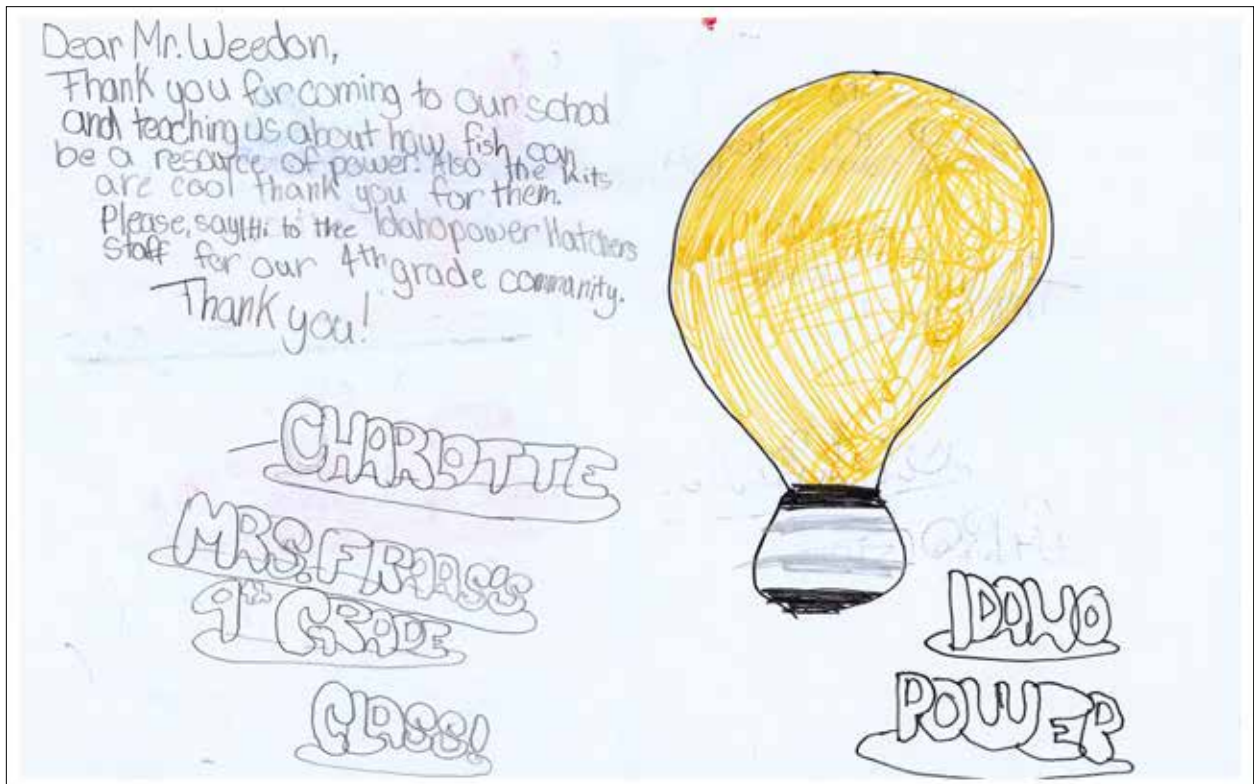
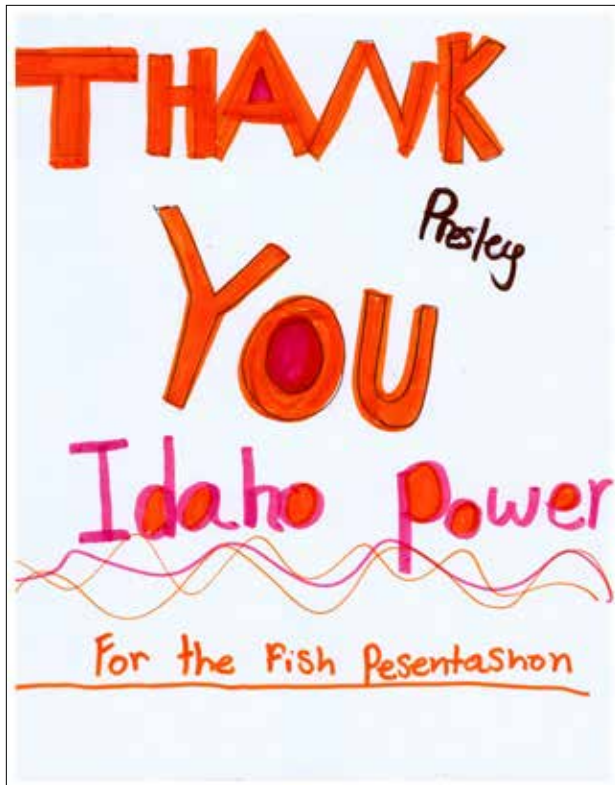
### Student Letters

(continued)



Student Letters

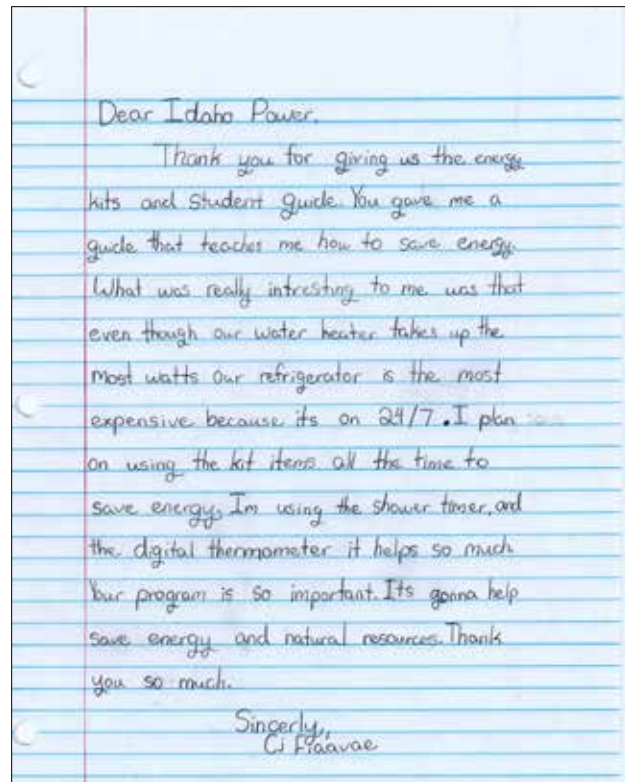
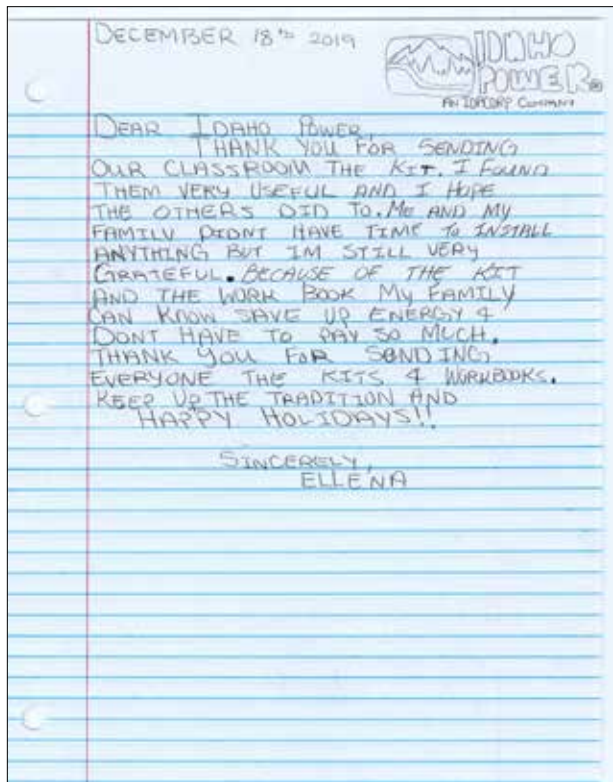
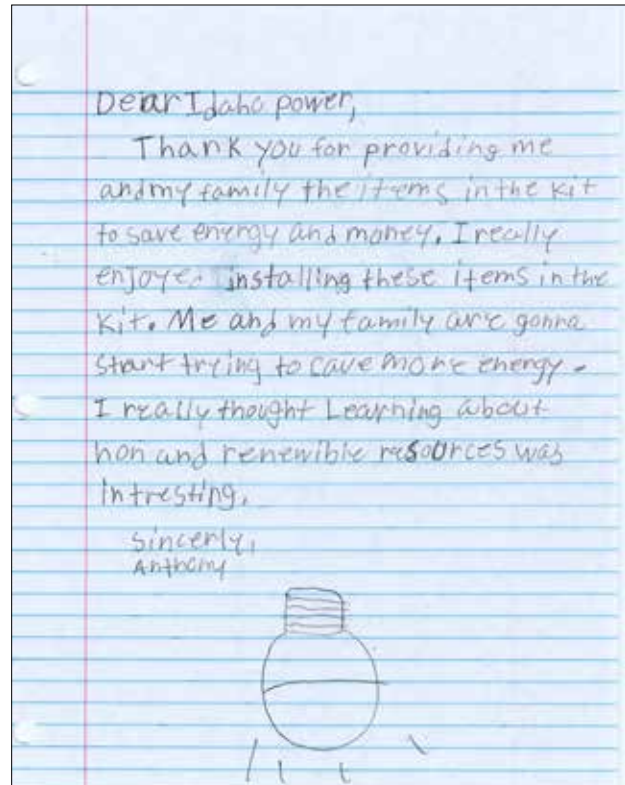
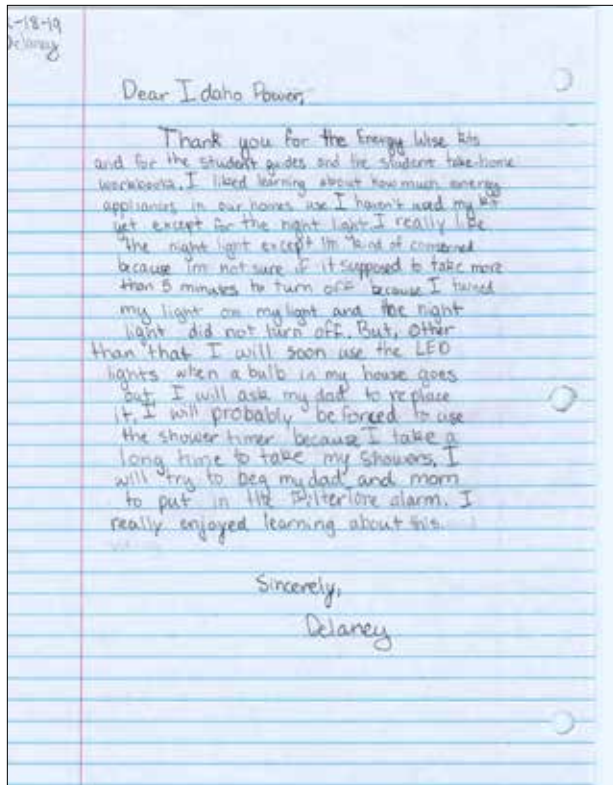
(continued)





## Student Letters

(continued)



## Participant List

REGION	SCHOOL	TEACHER	T	S	SURVEYS RETURNED
Capital	Adams Elementary School	Simone Mansfield	1	25	No
Capital	Adams Elementary School	Maggie Wilson	1	25	No
Western	Aiken Elementary School	Patty Eidson	1	23	No
Western	Aiken Elementary School	Candace Zugner	1	26	No
Capital	Amity Elementary School	Megan Fuller	1	27	Yes
Western	Annex Charter School	Julie Alexander	1	21	No
Canyon	Birch Elementary School	Juilana Lookhart	1	27	Yes
Canyon	Birch Elementary School	MaryJo Pegram	1	27	Yes
Canyon	Birch Elementary School	Carol Briggs	1	27	Yes
Canyon	Birch Elementary School	Brenda Fly	1	27	Yes
Southern	Castleford Elementary School	Carrie March	1	17	No
Southern	Castleford Elementary School	Caree Thomas	1	17	No
Canyon	Central Elementary School	Courtney Craner	1	28	Yes
Canyon	Central Elementary School	Aubrey Crisp	1	26	Yes
Capital	Christine Donnell School of Arts	Debra Tiffany	1	30	No
Capital	Christine Donnell School of Arts	Amy Hymas	1	29	No
Capital	Christine Donnell School of Arts	Cynthia Compton	1	29	No
Eastern	Claude A. Wilcox Elementary School	Tricia Hemsley	1	31	No
Eastern	Claude A. Wilcox Elementary School	Lacie Christensen	1	32	Yes
Eastern	Claude A. Wilcox Elementary School	Monique Gannon	1	31	Yes
Canyon	Desert Springs Elementary School	Lindsay Mangum	1	26	Yes
Canyon	Desert Springs Elementary School	Jackie Sodaro	1	26	Yes
Canyon	Desert Springs Elementary School	Stacey Pearson	1	26	No
Canyon	Desert Springs Elementary School	Janelle Smith	1	26	Yes
Capital	Eagle Hills Elementary School	Noell Bautista	1	27	Yes
Capital	Eagle Hills Elementary School	Jillian Cole	1	29	Yes
Capital	Eagle Hills Elementary School	Brian Fischer	1	28	Yes
Capital	Eagle Hills Elementary School	Samantha Purcell	1	26	No

Note: "T" represents number of teachers and "S" represents number of students

## Participant List

(continued)

REGION	SCHOOL	TEACHER	T	S	SURVEYS RETURNED
Canyon	East Canyon Elementary	Tiara Shippy	1	23	No
Canyon	East Canyon Elementary	Amber Faille	1	23	No
Canyon	East Canyon Elementary	Michelle Gooch	1	23	No
Western	Four Rivers Community School	Julie Bodily	1	28	No
Western	Four Rivers Community School	Zuri Montoya	1	27	Yes
Capital	Frontier Elementary	Joshua Thompson	1	53	No
Western	Fruitland Middle School	Chance Stringer	1	30	No
Western	Fruitland Middle School	Jaris Lewis	1	30	No
Western	Fruitland Middle School	Makayla MacKenzie	1	30	No
Western	Fruitland Middle School	Deborah Schmid	1	30	No
Western	Fruitland Middle School	Alison Parrot	1	30	No
Capital	Galileo STEM Academy	Nicole Sarty	1	33	No
Capital	Galileo STEM Academy	Beth Bivens	1	33	No
Capital	Galileo STEM Academy	Stacie Swenwold	1	33	No
Western	Garden Valley Elementary	Tonya Smith	1	25	No
Capital	Garfield Elementary School	Sonia Galaviz	1	26	No
Eastern	Gate City Elementary School	Lacey Smart	1	28	Yes
Eastern	Gate City Elementary School	Christin Brown	1	28	Yes
Eastern	Green Acres Elementary School	Kathy Walker	1	28	No
Eastern	Green Acres Elementary School	Rachel Thomas	1	28	No
Canyon	Greenhurst Elementary School	Tami Ashley	1	21	No
Canyon	Greenhurst Elementary School	John Stull	1	21	Yes
Eastern	Groveland Elementary	Kalli Lopez	1	18	Yes
Eastern	Groveland Elementary	Melissa Schreiber	1	18	No
Southern	Hansen Elementary School	Marcie Parkinson	1	24	No
Southern	Harrison Elementary School	Cortney Day	1	30	No
Southern	Harrison Elementary School	Alger	1	25	No
Southern	Harrison Elementary School	Boyle	1	30	No

Note: "T" represents number of teachers and "S" represents number of students

## Participant List

(continued)

REGION	SCHOOL	TEACHER	T	S	SURVEYS RETURNED
Western	Henry L Slater Elementary School	Karen Klus	1	22	No
Western	Henry L Slater Elementary School	Sarah Huckins	1	22	No
Western	Henry L Slater Elementary School	Josh Weible	1	22	No
Capital	Highlands Elementary School	Eileen Beatty	1	24	No
Capital	Highlands Elementary School	Matt Brown	1	8	No
Capital	Highlands Elementary School	Gretchen Carter	1	12	No
Capital	Hillsdale Elementary School	Michelle Montoya	1	29	Yes
Capital	Hillsdale Elementary School	Jocelyn Robinson	1	28	No
Capital	Hillsdale Elementary School	Angie Fraas	1	32	Yes
Capital	Hillsdale Elementary School	Hannah Kessler	1	28	No
Capital	Hunter Elementary School	Angela Zweifel	1	26	No
Capital	Hunter Elementary School	Diane Escandon	1	27	No
Capital	Hunter Elementary School	Rene Bilkiss	1	27	No
Capital	Hunter Elementary School	Cinda Bodell	1	27	No
Capital	Hunter Elementary School	Rebecca Lenon	1	27	No
Canyon	Iowa Elementary	Pepper Allen	1	27	No
Canyon	Iowa Elementary	Veronica Knutson	1	27	No
Canyon	Iowa Elementary	Shetila Henry	1	27	No
Capital	Joplin Elementary School	Kirsten Grover	1	28	No
Capital	Joplin Elementary School	Amy Bass	1	28	No
Western	Kenneth Carberry Elementary School	Karen Nichols	1	23	No
Western	Kenneth Carberry Elementary School	Alissa Combe	1	24	No
Western	Kenneth Carberry Elementary School	Katrina Savitz	1	24	Yes
Western	Kenneth Carberry Elementary School	Paige Parker	1	25	Yes
Southern	Kimberly Elementary School	Roberta Beck	1	22	No
Southern	Kimberly Elementary School	Deanna Miller	1	22	No
Southern	Kimberly Elementary School	Rachelle Mueller	1	22	No
Southern	Kimberly Elementary School	Cathy Bohman	1	22	No

Note: "T" represents number of teachers and "S" represents number of students

## Participant List

(continued)

REGION	SCHOOL	TEACHER	T	S	SURVEYS RETURNED
Capital	Koelsch Elementary School	Kellie Penn	1	27	No
Capital	Koelsch Elementary School	Roxy AlmaTaya	1	28	No
Canyon	Lake Ridge Elementary School	Deanna Menssen	1	32	No
Canyon	Lake Ridge Elementary School	Tanya Scheibe	1	32	Yes
Canyon	Lake Ridge Elementary School	Laura VanDerschaaf	1	33	Yes
Canyon	Lake Ridge Elementary School	Amy Taylor	1	32	Yes
Canyon	Lewis & Clark Elementary	Adam Trowbridge	1	24	No
Canyon	Lewis & Clark Elementary	Meghan Willard	1	25	No
Canyon	Lewis & Clark Elementary	Teri Kelly	1	22	No
Eastern	Lewis and Clark Elementary	Tamara Palmer	1	26	No
Eastern	Lewis and Clark Elementary	John Anderson	1	27	Yes
Eastern	Lewis and Clark Elementary	Stacy Briner	1	27	Yes
Capital	Liberty Elementary School	Tara Diemart	1	29	No
Capital	Lowell Elementary School	Jayna Eichelberger	1	24	No
Capital	Maple Grove Elementary	Amber Bigelow	1	9	No
Capital	Maple Grove Elementary	Scott Roe	1	30	No
Capital	Maple Grove Elementary	Marie Lichte	1	28	No
Capital	Mary McPherson Elementary School	Amy Sanders	1	34	No
Capital	Mary McPherson Elementary School	Emily Drake	1	34	No
Capital	Mary McPherson Elementary School	Stacey Marshall	1	33	No
Western	May Roberts Elementary School	Amanda DeVos	1	27	No
Western	May Roberts Elementary School	Carol DeWitt	1	27	No
Canyon	Melba Elementary	Katie Strawser	1	26	Yes
Canyon	Melba Elementary	Marie Rockwood	1	26	No
Canyon	Melba Elementary	Carrie Bowers	1	26	Yes
Canyon	Mill Creek Elementary School	Lyna Butler	1	24	Yes
Canyon	Mill Creek Elementary School	Staci Miller	1	24	Yes
Canyon	Mill Creek Elementary School	Jill Mesecher	1	23	Yes

Note: "T" represents number of teachers and "S" represents number of students



## Participant List

(continued)

REGION	SCHOOL	TEACHER	T	S	SURVEYS RETURNED
Canyon	Mill Creek Elementary School	Allison Villastrigo	1	24	No
Canyon	Mill Creek Elementary School	Stephani Little	1	24	Yes
Capital	Morley Nelson Elementary School	Tobin Goodan	1	32	No
Capital	Morley Nelson Elementary School	Kimberly Vuturo	1	32	No
Capital	Morley Nelson Elementary School	Julia Zarbnisky	1	26	No
Southern	Murtaugh Elementary School	Anita McClure	1	30	No
Capital	North Elementary	Sherri Redmond	1	75	Yes
Capital	North Star Charter School	Mariah Rodeghiero	1	30	No
Capital	North Star Charter School	Michelle Obenchain	1	30	No
Capital	North Star Charter School	Carol DeFriez	1	30	No
Western	Nyssa Elementary School	Paula Barnhart	1	18	Yes
Western	Nyssa Elementary School	Trisha Bunker	1	37	Yes
Canyon	Owyhee Elementary	Becki Wheeler	1	23	No
Canyon	Owyhee Elementary	Brenda Allen	1	23	No
Canyon	Owyhee Elementary	Christa Roesberry-Barber	1	24	No
Western	Park Intermediate	Grace Sharp	1	22	No
Western	Park Intermediate	Jessica Mosley	1	25	No
Western	Park Intermediate	Jenny Conant	1	21	No
Western	Park Intermediate	Kathleen Cahill	1	22	No
Western	Park Intermediate	Emily McLeod	1	21	No
Capital	Peregrine Elementary School	Barbara Nesbit	1	22	No
Capital	Peregrine Elementary School	Britnie Winters	1	25	No
Capital	Peregrine Elementary School	Kristie Brokaw	1	21	No
Capital	Peregrine Elementary School	Carri Thornburg	1	25	No
Southern	Pioneer Montessori School	Hannah Beane	1	11	No
Capital	Ponderosa Elementary School	Deborah Lichter	1	33	Yes
Canyon	Purple Sage Elementary School	Melissa McPherson	1	22	Yes

Note: "T" represents number of teachers and "S" represents number of students

## Participant List

(continued)

REGION	SCHOOL	TEACHER	T	S	SURVEYS RETURNED
Canyon	Purple Sage Elementary School	Katie Ward	1	21	Yes
Canyon	Purple Sage Elementary School	Shalynn Carpenter	1	18	No
Southern	Raft River Elementary School	Angie Spencer	1	30	No
Canyon	Ronald Reagan Elementary School	Lisa Martell	1	26	No
Canyon	Ronald Reagan Elementary School	Sheryll Sharp	1	26	No
Canyon	Ronald Reagan Elementary School	Kemp	1	26	No
Capital	Roosevelt Elementary School	Alicia Bradshaw	1	28	No
Capital	Roosevelt Elementary School	Kathryn ONeil	1	29	No
Canyon	Ross Elementary School	Yvette Marshall	1	29	No
Canyon	Sherman Elementary School	Jennifer Jensen	1	19	No
Canyon	Sherman Elementary School	Josephine Fisher	1	19	No
Canyon	Sherman Elementary School	Jennifer Castricone	1	18	No
Canyon	Sherman Elementary School	Kaitlynn Johnson	1	19	No
Southern	Shoshone Elementary School	Denice Christiansen	1	18	No
Southern	Shoshone Elementary School	Charli Cenarrusa	1	18	No
Canyon	Silver Trail Elementary School	Dan Hoehne	1	25	Yes
Canyon	Silver Trail Elementary School	Kim Birkinbine	1	27	Yes
Canyon	Silver Trail Elementary School	Karla Miller	1	27	No
Canyon	Skyway Elementary School	Casi Spengler	1	30	No
Canyon	Skyway Elementary School	Mark Elli	1	30	No
Canyon	Skyway Elementary School	Elizabeth Pierce	1	30	No
Canyon	Skyway Elementary School	Jamie Warren	1	30	No
Canyon	Snake River Elementary	Heather Packer	1	18	No
Canyon	Snake River Elementary	Lindsay Strong	1	18	Yes
Canyon	Snake River Elementary	Matea Schindel	1	19	Yes
Eastern	Stoddard Elementary School	Alicia Cody	1	23	No
Eastern	Stoddard Elementary School	Natasha Luker	1	20	No
Eastern	Stoddard Elementary School	Fairley Faroni	1	21	No

Note: "T" represents number of teachers and "S" represents number of students

## Participant List

(continued)

REGION	SCHOOL	TEACHER	T	S	SURVEYS RETURNED
Eastern	Stoddard Elementary School	Craig Ockermen	1	21	No
Southern	Summit Elementary School	John Derr	1	26	No
Southern	Summit Elementary School	Kimberly Wallace	1	25	No
Southern	Summit Elementary School	Tracy Park	1	27	No
Southern	Summit Elementary School	Audra Thompson	1	25	No
Southern	Summit Elementary School	Maggie Stump	1	26	No
Southern	Summit Elementary School	Michele Putnam	1	25	No
Southern	Summit Elementary School	Jorma Fletcher	1	26	No
Southern	Summit Elementary School	Stacey Lakey	1	25	No
Southern	Summit Elementary School	Anne Winder	1	25	No
Southern	Summit Elementary School	Brad Winder	1	25	No
Southern	Summit Elementary School	Suzi McGinnis	1	26	No
Southern	Summit Elementary School	Don Adams	1	25	No
Eastern	Syringa Elementary School	Aubrey Eldredge	1	24	No
Eastern	Syringa Elementary School	Cindel Vasquez	1	23	No
Eastern	Syringa Elementary School	Andrea Gulden	1	23	No
Southern	Syringa Mountain Charter School	Angie Grant	1	18	No
Southern	Syringa Mountain Charter School	Shawn Myers	1	26	No
Capital	Trail Wind Elementary School	Karen Palazzolo	1	30	No
Capital	Trail Wind Elementary School	Kori Bevis	1	29	No
Eastern	Tyhee Elementary School	Jayne Johnson	1	29	Yes
Eastern	Tyhee Elementary School	Haley Luce	1	29	No
Eastern	Tyhee Elementary School	Amy Bare	1	30	No
Canyon	Van Buren Elementary School	Becky Gans	1	21	No
Canyon	Van Buren Elementary School	Aimee Stacy	1	23	No
Canyon	Van Buren Elementary School	Jenny Hartvigsen	1	21	No
Canyon	Van Buren Elementary School	Cindy Wells	1	23	No

Note: "T" represents number of teachers and "S" represents number of students

## Participant List

(continued)

REGION	SCHOOL	TEACHER	T	S	SURVEYS RETURNED
Western	W.W. Jones Elementary School	Vicki McConnell	1	3	No
Canyon	West Canyon Elementary	Andrea Chester	1	25	Yes
Canyon	West Canyon Elementary	Chuck Knox	1	25	Yes
Canyon	West Canyon Elementary	Sirrah Elliott	1	24	No
Canyon	West Canyon Elementary	Emry Smith	1	23	Yes
Capital	Whitney Elementary School	Kayden Tague	1	22	No
Canyon	Willow Creek Elementary School	Kim Chierici	1	4	No
Canyon	Willow Creek Elementary School	Nicole Gibbs	1	4	No
Canyon	Willow Creek Elementary School	Kayla Stone	1	5	No
Canyon	Willow Creek Elementary School	Melissa Sullivan	1	4	No
Canyon	Wilson Elementary School	Debbie Peterson	1	23	No
Canyon	Wilson Elementary School	Afton McSherry	1	23	Yes
Canyon	Wilson Elementary School	K Babcock	1	22	No
<b>TOTALS</b>			<b>207</b>	<b>5,229</b>	
<b>TOTAL PARTICIPANTS</b>			<b>5,436</b>		
<b>TOTAL PARTICIPATING FALL TEACHERS 207</b>			<b>50</b>	<b>24%</b>	<b>YES</b>
			<b>157</b>	<b>76%</b>	<b>NO</b>
<b>TOTAL PARTICIPATING SCHOOLS 76</b>					
<b>TOTAL PARTICIPATING CLASSROOMS 210</b>					

Note: "T" represents number of teachers and "S" represents number of students





102 N. Franklin Street • Port Washington WI 53074  
www.franklinenergy.com • (888) 438-9473  
©2020 Franklin Energy