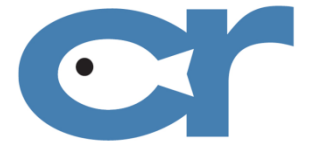


# Evolving Towards Your Audience

USING STUDENT TEST DATA AND TEACHER FEEDBACK TO  
IMPROVE ENVIRONMENTAL EDUCATION PROGRAMMING

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Sarah Woolley  
Program Coordinator  
Colorado River Alliance



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# The Burning Questions

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- How do you know if your program is effective?
- How do you identify areas to improve and illustrate that to peers?



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# Presentation Outline

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- Overview of YES Program
- How we collect data
- Methods to analyze data
- Results
- Challenges & Actions
- Questions



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# YES Program Overview

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## Youth Experience Stewardship (YES)



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# Watershed Station

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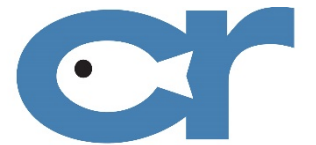


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# Watershed Station

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# Water Cycle Station



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# Data Collection

## YES Program Evaluation Form

Name (optional) \_\_\_\_\_

Group Name \_\_\_\_\_

Date \_\_\_\_\_ What is your zip code? \_\_\_\_\_

On a scale from 1 to 5, please rate the following:

5 ----- 4 ----- 3 ----- 2 ----- 1  
Very much Somewhat Not at all

### Colorado River Station

- |   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1. The presenter was knowledgeable in his/her field.          | 5 | 4 | 3 | 2 | 1 |
| 2. The information was presented in an appropriate manner.    | 5 | 4 | 3 | 2 | 1 |
| 3. This material and activities were grade level appropriate. | 5 | 4 | 3 | 2 | 1 |
| 4. The presenter was useful and helpful.                      | 5 | 4 | 3 | 2 | 1 |

Comments about this station: \_\_\_\_\_

### Conservation Station

- |   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1. The presenter was knowledgeable in his/her field.          | 5 | 4 | 3 | 2 | 1 |
| 2. The information was presented in an appropriate manner.    | 5 | 4 | 3 | 2 | 1 |
| 3. This material and activities were grade level appropriate. | 5 | 4 | 3 | 2 | 1 |
| 4. The presenter was useful and helpful.                      | 5 | 4 | 3 | 2 | 1 |

Comments about this station: \_\_\_\_\_

Please continue on the other side



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## What do *YOU* know?

1. Where does your drinking water come from?

- a. Edwards Aquifer
- ☒ b. Colorado River
- c. Brazos River
- d. I don't know

2. Do humans reuse the same water over time?

- a. Yes
- b. No
- ☒ c. I don't know

3. What are 3 examples of pollution that impact our waterways?

cans in water  
bottles in water  
Not good water



PRE 334



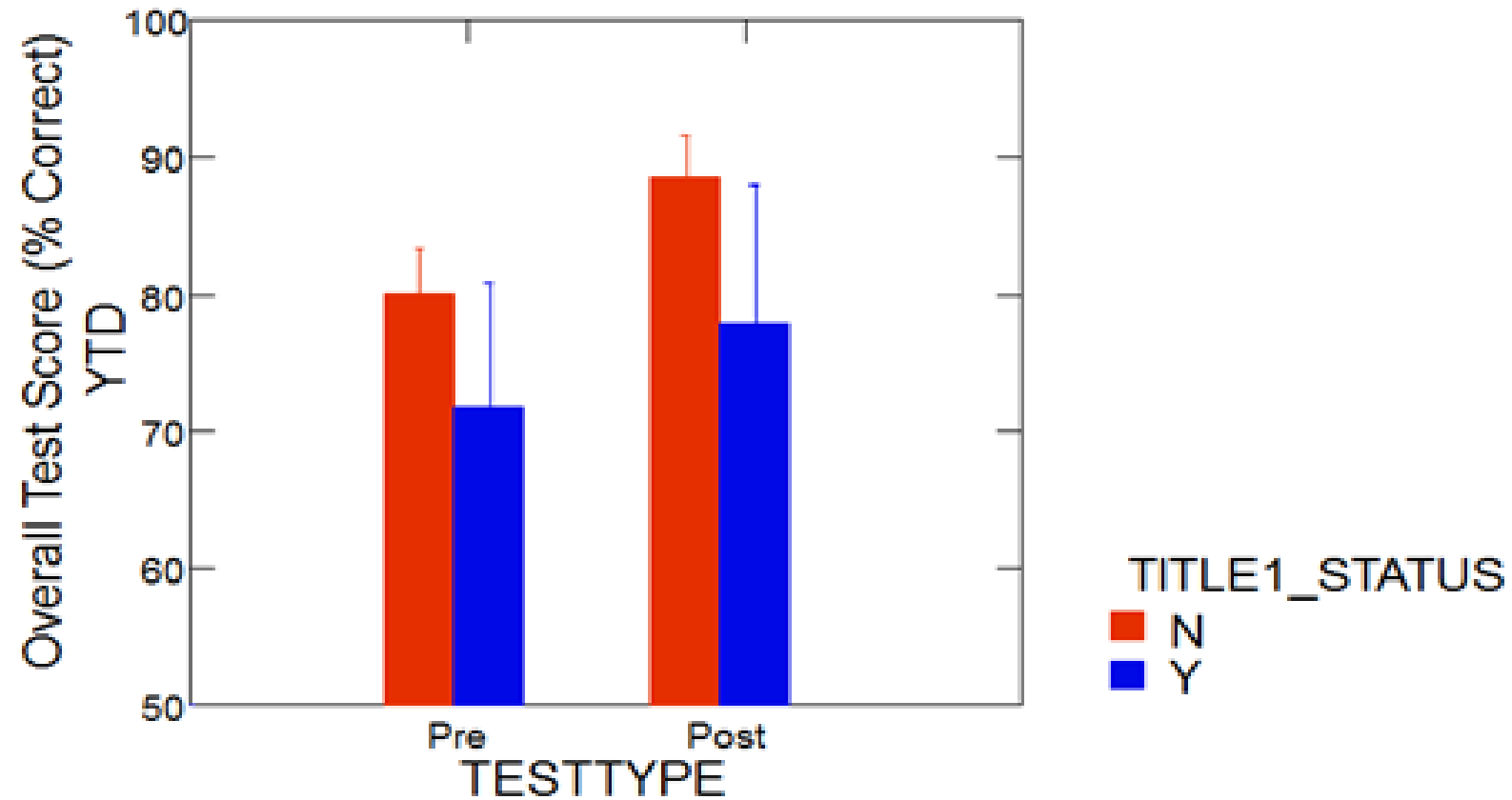


# Analysis

	A	B	C	D	E
1	Count of Trip#		Program_Year		
2	School_Organization	Title1_Status	6	7	Grand Total
3	Anderson Mill	Y		1	1
4	Baranoff	N	3		3
5	Barrington	Y	1		1
6	Becker	Y	1		1
7	Berkman	Y	1		1
8	Bluebonnet	Y	2		2
9	Boone	Y	2		2
10	Brentwood Christian Scho	N	2		2
11	Caldwell	Y		2	2
12	Casis	N	3		3
13	Cedars International Acad	Y	1	1	2
14	Cowan	N	3	3	6
15	Dawson	Y		1	1
16	Dripping Springs	N	3		3
17		Y		2	2
18	Elsa England	N	2		2
19	Grand Total		24	10	34



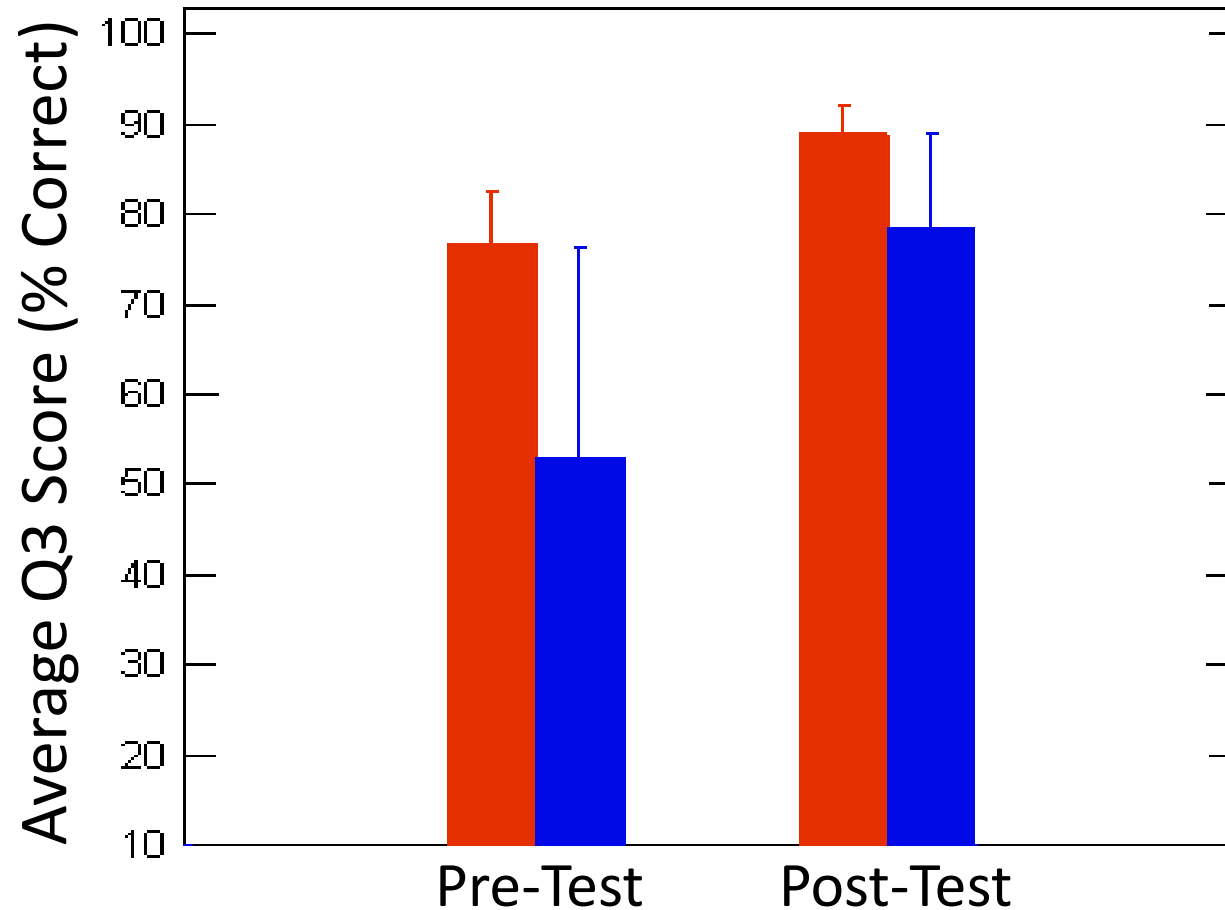
# Overall Student Test Scores



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# Pollution Pre, Post Test Data





3. What are 3 examples of pollution that impact our waterways?

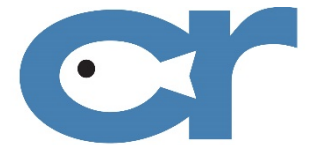
oil, chemicals, too  
much fertilizer



POST 510

Title 1 Status

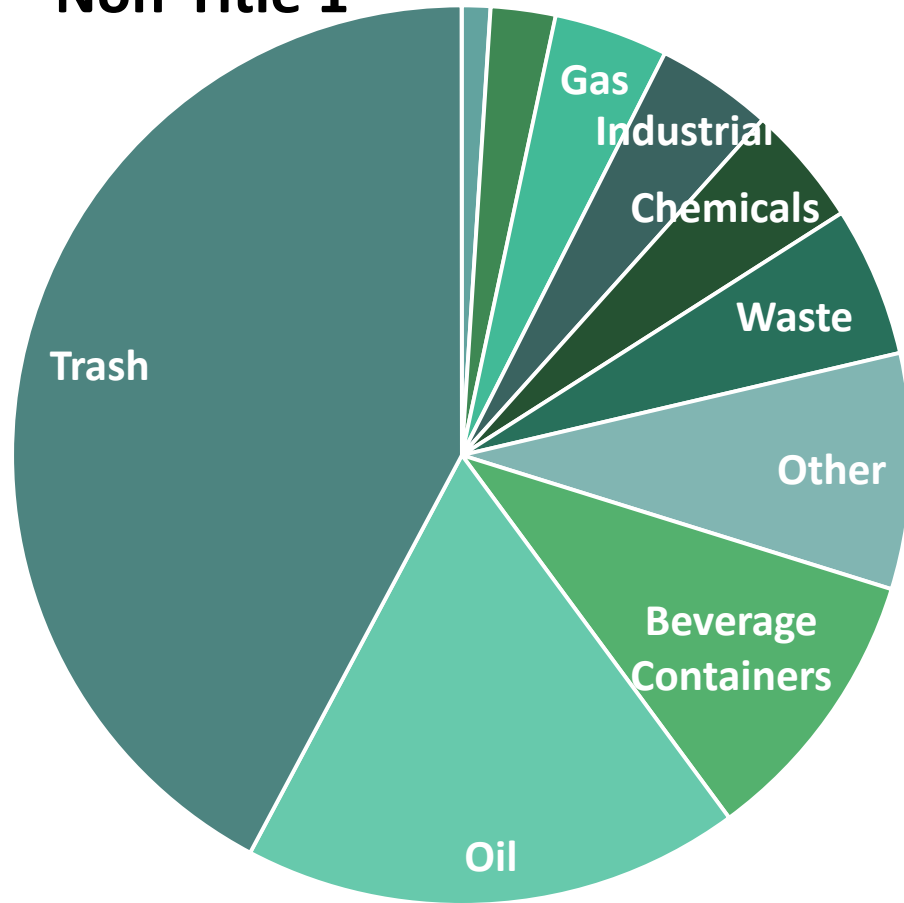
 N  
 Y



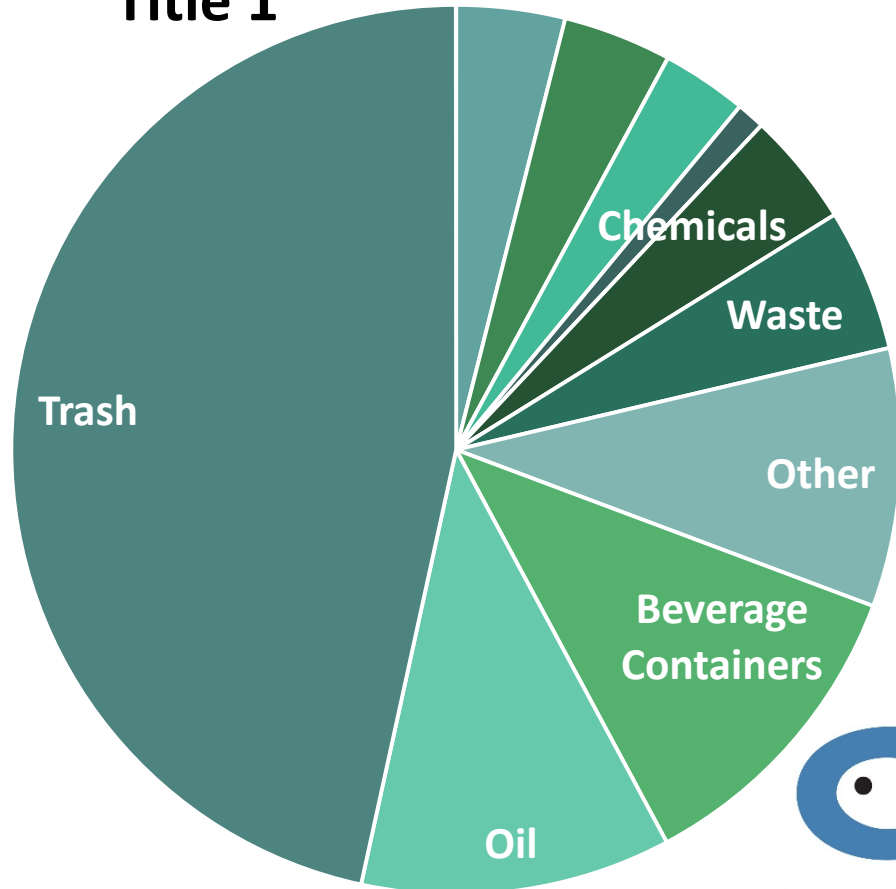
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# Pollution Pre-Test

**Non-Title 1**



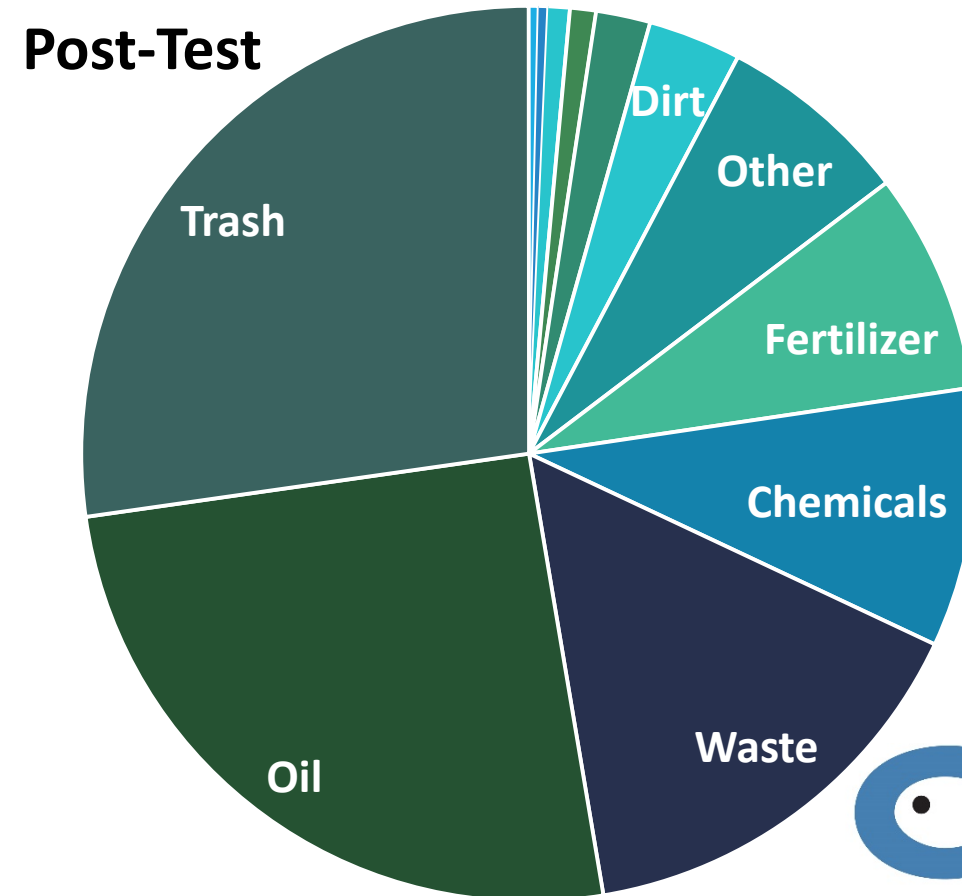
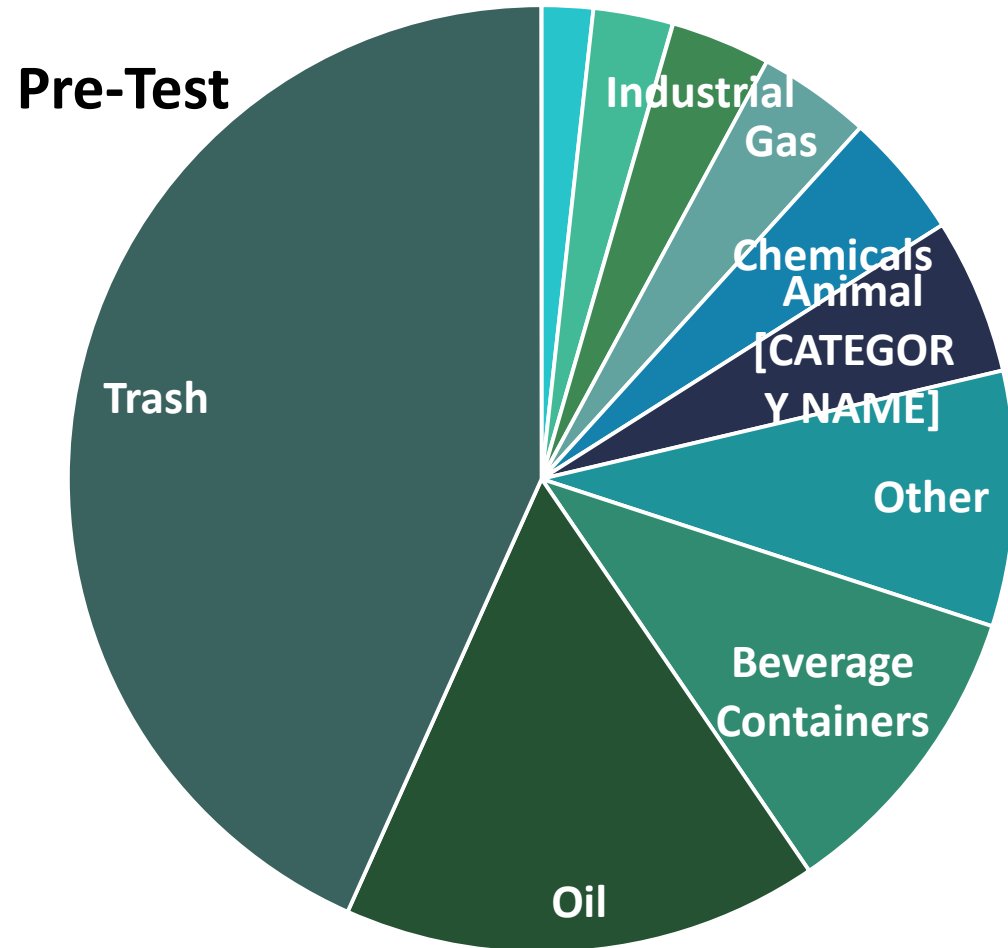
**Title 1**



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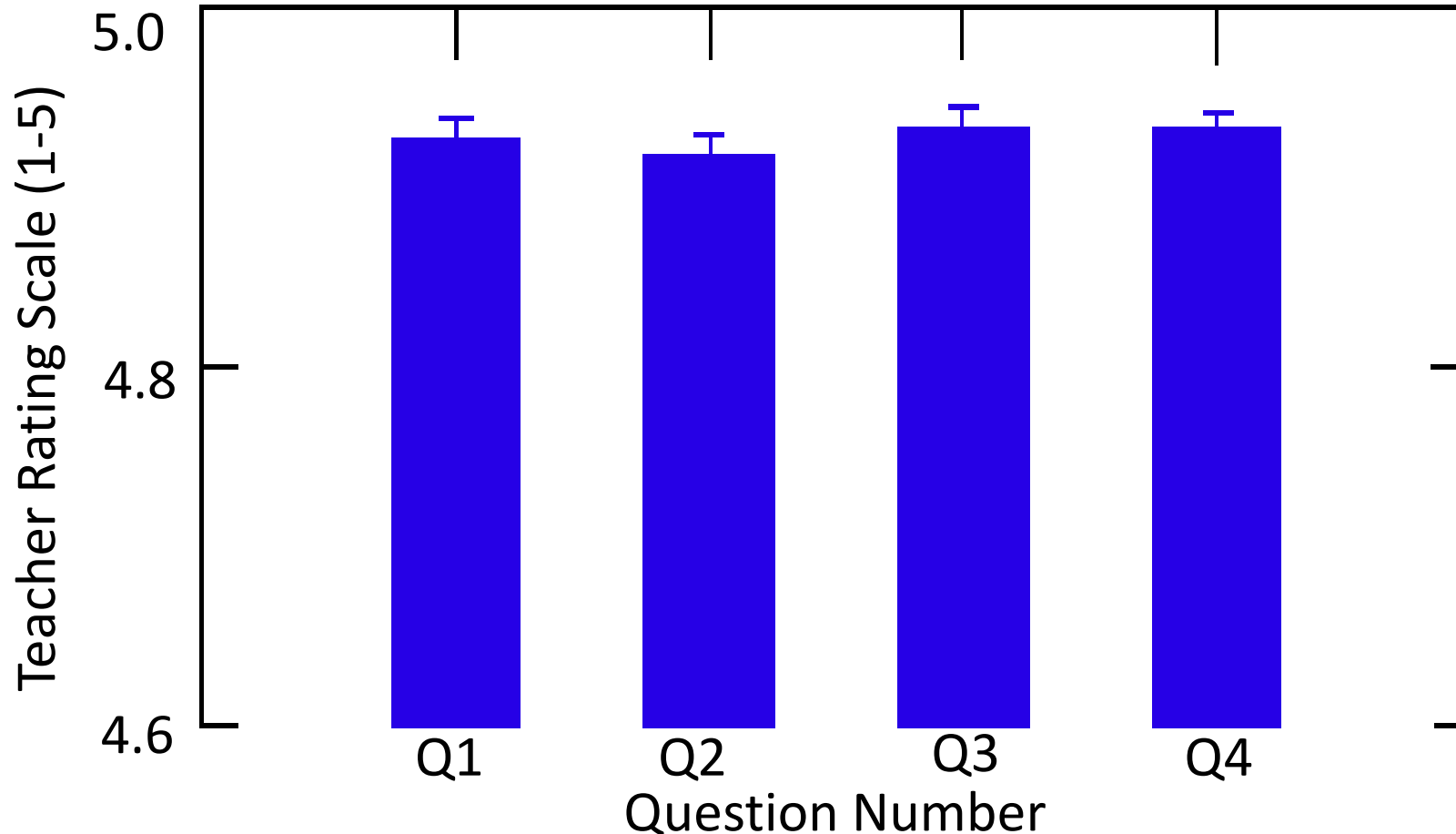


# Pollution Data



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# Teacher Evaluations: Watershed Station



- Q1: The presenter was knowledgeable, friendly and helpful.
- Q2: The information was presented in an appropriate manner.
- Q3: The materials and activities were grade level appropriate.
- Q4: The station covered important TEKS/science content.



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# Teacher Evaluations: Watershed Station

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“The activity with the model was a real eye opener for our kids to see how much of an effect we have on our water.”

“Non-point and point source only shown on poster. Kids didn't really get it. Need to connect to activity sooner.”

“Teacher was geared to older kids. Needs to engage students. Very knowledgeable, not well tempered for younger kids. Material was grade appropriate, just not presented in a manner they could follow.”



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# Challenges & Actions

- “Trash is the primary pollutant”
  - Introduced 3 primary sources
- Different learning styles
  - Title 1 v. Non-title 1
- Program is Volunteer driven
  - Training, observations, & coaching



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# Thank You!

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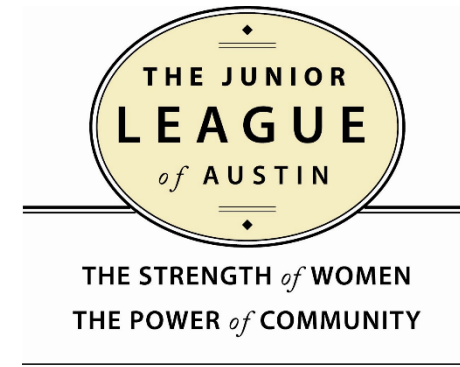
512-498-1587

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