



Learn more about IP3 Strategy [here](#)

Shorter Shower Data Stories

Your name, Class of _____

School, School District, City

Make it your own!

- Click "File" and **Copy or Download** this template
- Replace any **orange text** with your own details
- Adjust the procedure to achieve your goals
- Swap out sample data with your own
- Storytelling is the key! Get creative with it

1. Impact Design

Impact Statement - By taking shorter showers, I can reduce my water footprint by nearly 25 gallons a week, which will save my family money and serve as an example to others.

Community Alignment	
Group	Goal/Action
<u>Northshore Utility District</u> - Special purpose public agency providing water and sewer services to the Lake Washington, Kenmore, and Lake Forest Park communities.	The Northshore Utility District is a Member of the Saving Water Partnership as well. They also created a Water Use Efficiency Program which is designed to address system leakage and reduce total water use and waste. The water used is primarily from the Tolt River Watershed.
<u>Bothell Water Conservation (Saving Water Partnership)</u> - Bothell is a part of the Saving Water Partnership which is a group of local water utilities working to conserve water	Bothell Water Conservation provides rebates to help people purchase more energy-efficient water appliances in their homes. The Saving Water Partnership working with 19 water utilities provides the tools and advice necessary to start on a water conservation journey.

Procedure - Steps for implementation!

1. Track shower duration for two weeks and find the average of that data.
2. Calculate how many gallons per minute are put out by the showerhead.
3. Aim to reduce shower time by 1-2 minutes, equal to approximately 5-10 gallons used. Create a playlist of songs for showering and use them to track the time or find a morning podcast to track time with.
4. Practice new shower habits and record data on gallons used and the duration of showers for two weeks.
5. Look at my family's water bill and calculate the money being saved from my shorter showers. Also calculate the CO₂ reduction!
6. Encourage my family to do the same and make a fun competition out of it. So it could start happening regularly.

2. Impact Data Tracking - Quantify your impact!

After looking into my shower head model, I've discovered that it uses 1.75 gal/minute and is WaterSense certified. According to the [EPA](#):

- Average showerhead: Uses 2.5 gallons per minute
- [WaterSense](#) labeled showerheads: Uses no more than 2 gallons per minute

Initial Data.:

Shower duration per week....

7 minutes: **4** ~ it uses 12.25 gallons

8 minutes: **2** ~ it uses 14 gallons

9 minutes: **1** ~ it uses 15.75 gallons

Total Preventable Water Waste =

- (**1** time per week my shower is 9 minutes)(**15.75 gallons**) - (reduce by 2 minutes) (**3.5 gallons**)
- + (**2** times per week my shower is 8 minutes)(**14 gallons**) - (reduce by 2 minutes) (**3.5 gallons**)
- + (**4** times per week my shower is 7 minutes)(**12.25 gallons**) - (reduce by 2 minutes) (**3.5 gallons**)

= (**1** x **15.75**) + (**2** x **14**) + (**4** x **12.25**) = **92.75** gallons of water each week

= (**7** showers x **3.5** gallons) = **24.5** gallons per week saved

Total gallons of water used per week = (**7** showers a week)(**2 minutes reduced**) = **68.25** gallons of water per week

Reducing my shower by only 2 minutes will save me 3.5 gallons every time for a total of **24.5** gallons saved each week. We can reduce our total water used by taking shorter showers!

Data after Behavior Adjustments:

Duration of shower per week

5 minutes: **4** ~ it uses 8.75 gallons

6 minutes: **2** ~ it uses 10.5 gallons

7 minutes: **1** ~ it uses 12.25 gallons

Total gallons of water used per week = (**4** x **8.75**) + (**2** x **10.5**) + (**1** x **12.25**) = **68.25** gallons of water per week

I decreased my total gallons of water use per week by **24.5** gallons!

(**24.5** gallons)(52 weeks in the year) = **1,274** gallons of water saved per year.

Extra Explorations:

1. If my entire family reduced their showers by **2** minutes, saving **24.5** gallons each week, which is **1,274** gallons saved per year. In total, we could save (**1,274** gallons x **5** people) = **6,370** gallons every year.
2. Heating one single gallon of water produces **0.18 lbs of CO₂**. **1,274** gallons of water saved per year x 0.18 lbs of CO₂ = **229** lbs of CO₂ saved per year!
3. How much do my shower habits cost over a 2-month billing period? Time to check my water bill!
convert You can convert cubic feet/second to gallons of water [here](#)

3. Impact Storytelling - Share your data with who needs to know! See more [tips](#)

Think on 4 scales of stakeholders... Family, School, Community, and Aligned Groups

Stakeholder	Interests	Approach
Family — Parents	Saving money	<u>Family Shower Challenge:</u> Start a conversation about what else we can do to conserve water or consider reducing the frequency or duration of our showers. Let's make it fun! Who can take the shortest showers?
School — Peers	Sustainability	<u>Grade Competition:</u> Create a competition within my school or collective goal to get people involved in water conservation and shorter showers. Which grade can have a lowest average shower time? Or what about staff vs students?
Community — City Government	Sustainability, saving money	<u>Comment to City Council:</u> Report results to city council and encourage them to offer more benefits to those who want to switch to more sustainable showerheads.
Aligned Groups — Utility Companies	Conservation, Youth Education	<u>Video Story:</u> Share my data with the board members and possibly create a video story that they can use to promote youth education in water conservation. Check one out here! Money Down the Drain - Shorter Showers

Add your project to our website under "[Submit your Impact](#)"! Contribute to collective impact...