

Free Water Access On UW-Seattle Campus

School of Public Health Nutritional Sciences Program March 19, 2013

Introduction

Rising obesity prevalence

• Public policy is a powerful tool

• Sugary drinks = more calories

• Weight gain \rightarrow problems

- Decreased productivity
- o Decreased quality of life
- Medical costs
- Chronic disease risk

Creating A Healthy Environment

- Healthy People 2020 Goals
- Institute of Medicine Recommendations

• Creating food and beverage environments that promote health by ensuring that healthy options are the routine, easy choice

Factors Influencing Water Consumption

- Safety concerns
- Cleanliness
- Water pressure
- Functionality
- Taste
- Appearance

Public Health Goal

Reduce chronic disease by lowering consumption of sugary drinks through promotion of free drinking water



Statement of Purpose

- Assess sources of free drinking water
 - Quality
 - Ease of access
- Understand barriers and policy solutions
- Assess relevant policies and make recommendations



Data Collection

- 277 fountains and bottle fillers in 36 buildings
 - o Flow rate
 - o Temperature
 - o Clarity, smell, color
 - o Cleanliness



Ideal Fountain



Data Analysis

- 274 analyzed
- Flow rate:
 - *Fast:* <40 sec *Medium:* 40-72 sec *Slow:* >72 sec
- Temperature:
 - <15°C
 15-20°C
 >20°C

- Appearance:
 - o Clean
 - o Dirty: solids, rust, stains



Slow Drainage

Data Collection Photo







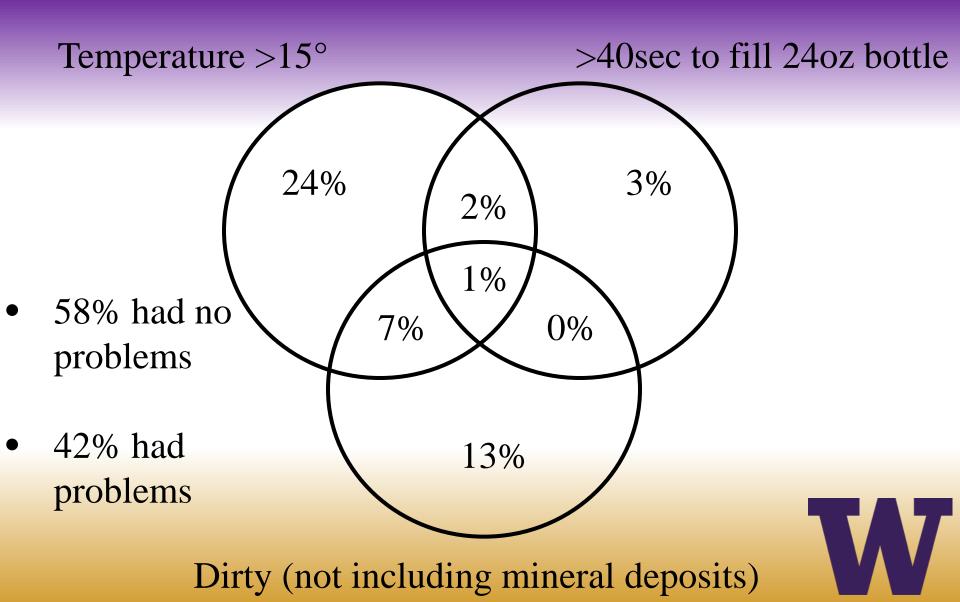
Broken Fountain

Mineral Deposits on faucet

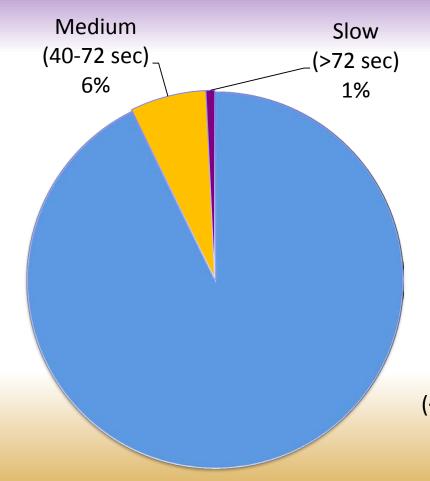
Results

Measured Characteristics	Value	
Average time to fill (seconds)	27.0	
Average temperature (°C)	14.5	
Clear water	97.5%	
Odorless water	96.7%	
Colorless water	99.6%	
Mold/mildew	1.4%	
Fluid waste	0.7%	
Solid waste	13.1%	
Rust	9.9%	
Damage-free	99.3%	
Mineral deposits	21.5%	
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Distribution of Problem Fountains



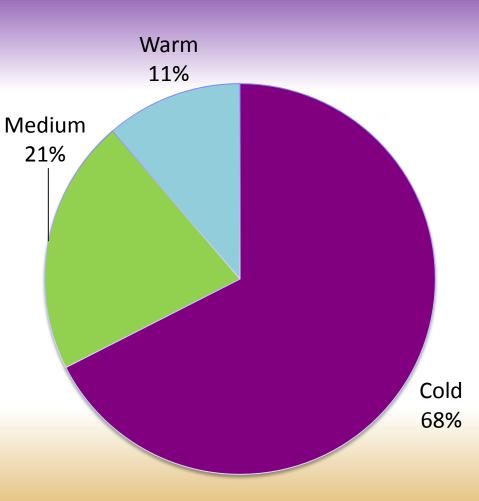
Time to Fill



Speed	# Fountains
Fast (desirable)	254
Medium (less desirable)	18
Slow (undesirable)	2

Fast (<40 sec) 93%

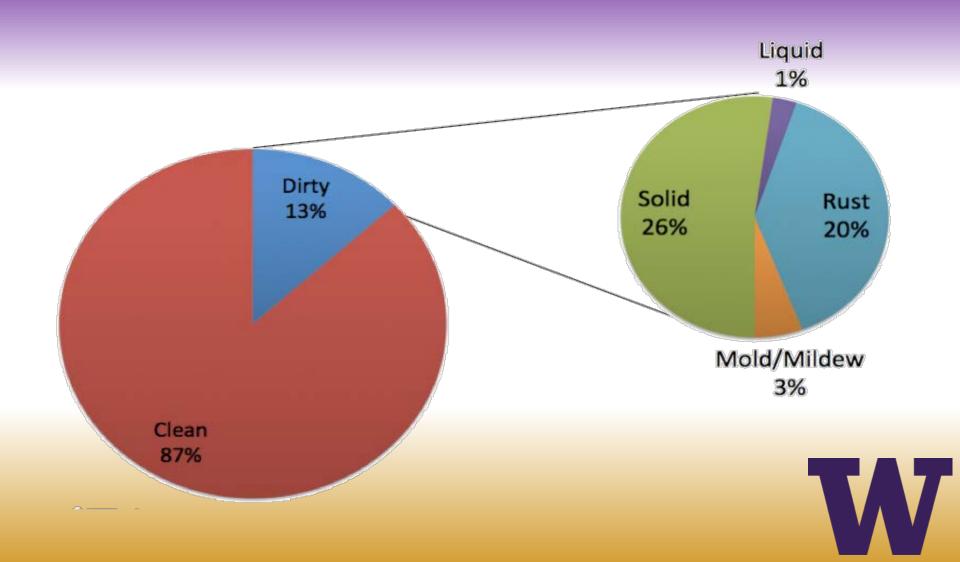
Water Temperature



Temperature	# Fountains
Cold (desirable)	185
Medium (less desirable)	58
Warm (undesirable)	31

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Breakdown of Dirty Fountains

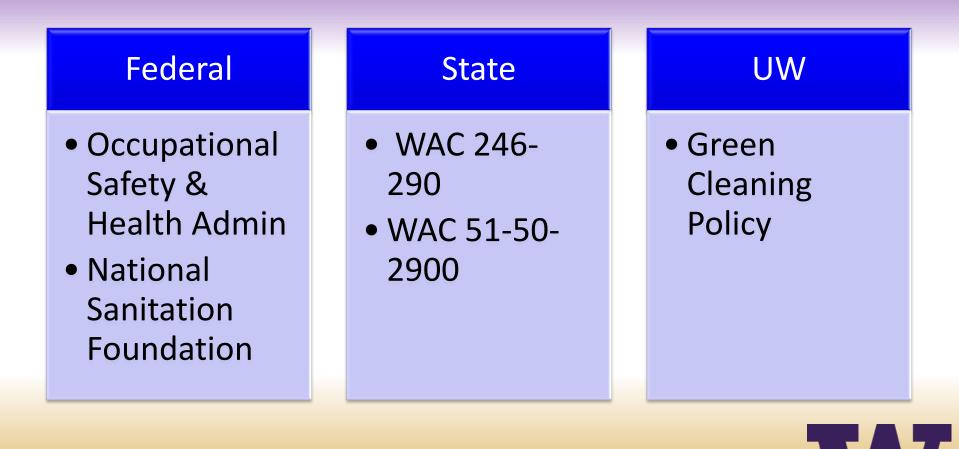


Policy Review

- Existing policies
- Policy opportunities



Existing Drinking Water Policies Relevant to UW



WA State Drinking Fountain Policy

o > 30 Occupants:

- *first 150 occupants: 1 drinking fountain*
- I fountain for each additional 500 occupants

• Sporting facilities:

1 drinking fountain for each 1000 occupants.

Campus Building Services Policy

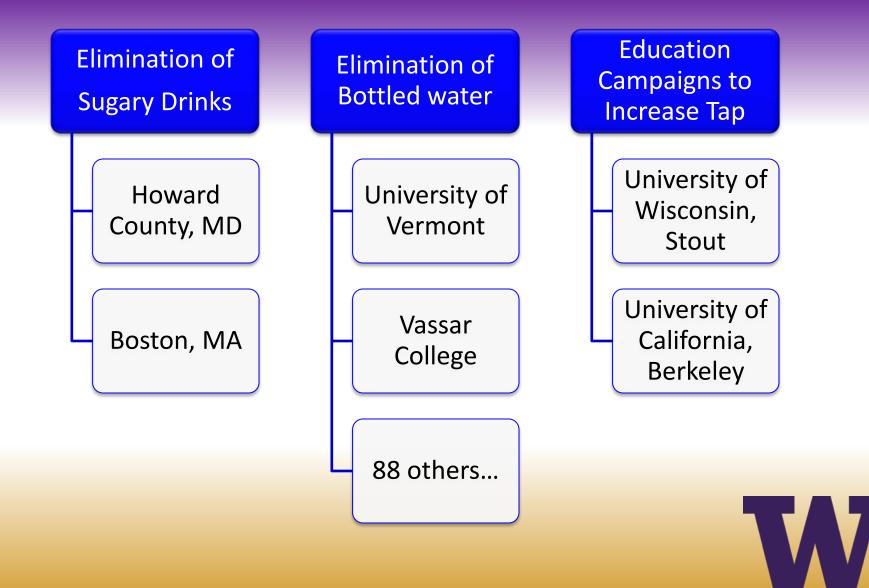
• Clean and sanitary fountains

• Problems:

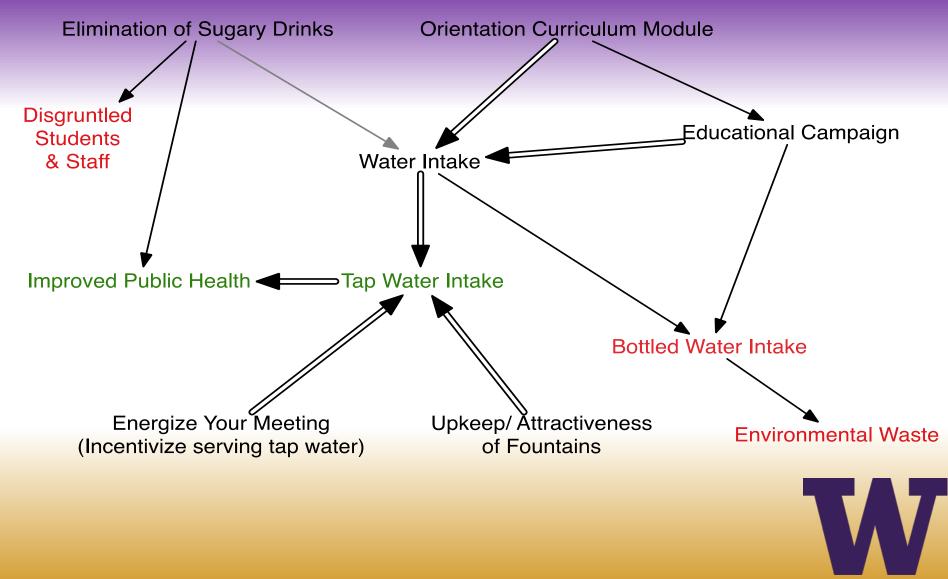
Budget
Campus size
Number of custodians



Water Promotion Policy Leaders



Rationale for Policy Recommendations



Policy Recommendations

- Create new Freshmen Orientation module
- Adopt healthy food and beverage guidelines for meetings on campus
- Enforce existing fountain maintenance policy
- Marketing campaign

Freshmen Orientation Module

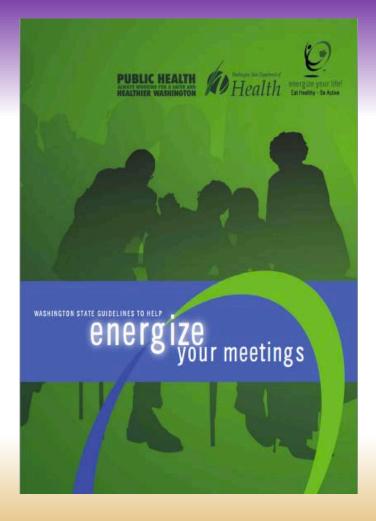
• Current curriculum: Health and Wellness session

Policy recommendation: Add 30-min module to include research on sugary drinks

 Discuss benefits of drinking tap water
 Provide refillable bottle and map of fountains



Adopt healthy food and beverage guidelines for meetings at UW



• Specify tap water to be provided at meetings

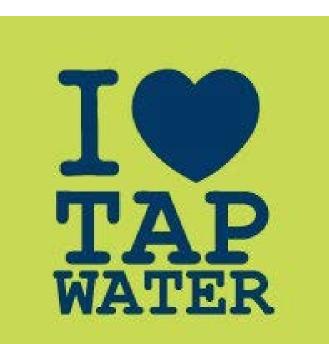


Enforce Existing Fountain Maintenance Policy

- Existing policy: fountains to be cleaned daily
- **Reality**: cuts to higher education = greater demand on cleaning staff
- Daily cleaning overlooked
- Visual appeal important for fountain use



Marketing Campaign: Promote Campus-Wide Tap Usage





Marketing Campaign: Audience

• Students

- o Primary Audience
 - Most affected by the problem
 - Most likely to change their behavior
 - Most feasible to reach
 - Contemplation stage \rightarrow ready to change
- Faculty, facilities and maintenance staff
 - o Secondary Audience



Marketing Campaign: Audience

• Aspirations of Students

- Improve academic performance
- o Maintain health
- o Minimize weight gain
- o Reduce debt



• How to get them to change?

o Competing behaviors against which you can "win"

Marketing Campaign: Outreach

Information channels used

- Posters (shocking=most effective)
- Peers, word of mouth
- Freshmen Orientation

Specific activity

- Poster campaign
- Free, refillable water bottles
- More water bottle fillers

Previously Developed Tap Water Campaigns

• Are You Pouring on the Pounds

o New York City

• I Love Tap Water

o University of Wisconsin-Stout

• I Love Tap Water

o UC Berkeley

Are You Pouring on the Pounds? (New York City)

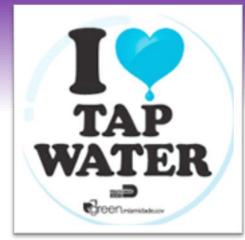








I Love Tap Water (University of Wisconsin-Stout)







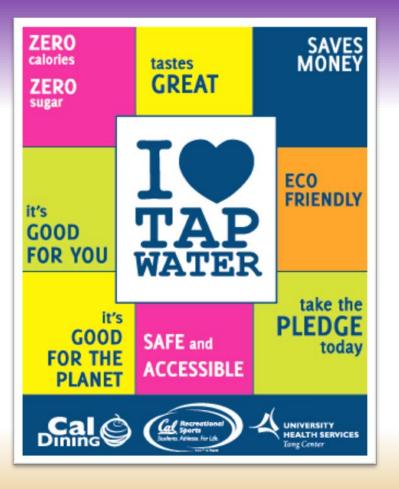


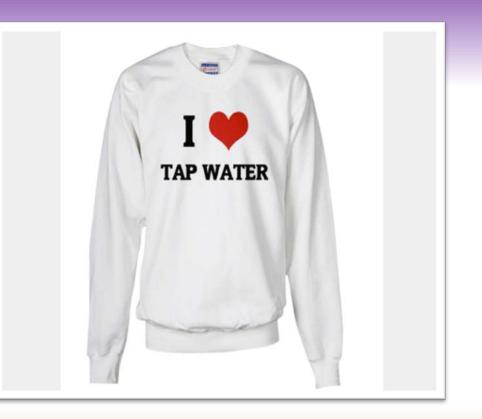






I Love Tap Water (University of California Berkeley)







Limitations of Assessment

• Quality = Multi-factor measurements

Important measures not assessed

- Contaminants in water
- Spatial access

Slight intergroup differences in collecting the data

Conclusion

• Purpose:

- o Evaluate access to drinking water
- o Identify barriers to free water access
- o Identify opportunities for policy

• Findings:

 95% of fountains and bottle fillers were free of mold, mildew, odors, colors, and fluid waste





• Policy Opportunities at UW:

o Create new Freshmen Orientation module

- Adopt healthy food and beverage guidelines for meetings on campus
- o Enforce existing fountain maintenance policy
- Marketing campaign



Questions And Discussion







THANK YOU FOR ATTENDING!

