

Water Rates Dashboard for Delaware and Surrounding States

October 25, 2018

www.efcnetwork.org







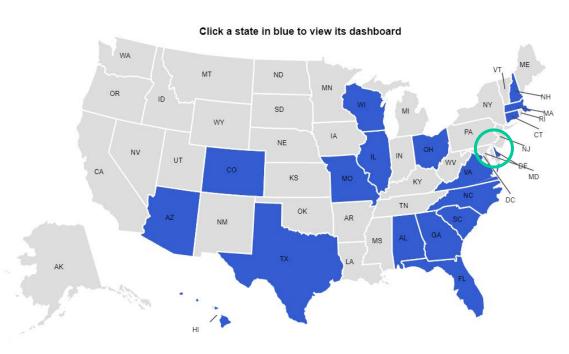
Presenter



Annalee Harkins

Data Specialist and Project Manager

EFC at UNC Chapel Hill



Webinar Objectives

- Become familiar with the features and benefits of the Delaware and Surrounding States Water Rates Dashboard
- Learn how to compare one water system's rates with those of other systems

Survey Partner: University of Delaware Water Resources Center

reports and data to be used by water providers; federal, state,

Water Rates in Delaware and Surrounding States, Draft Report 2017

and local water agencies; and the public.





Surrounding River Basins (2000)

Additional Data Sources

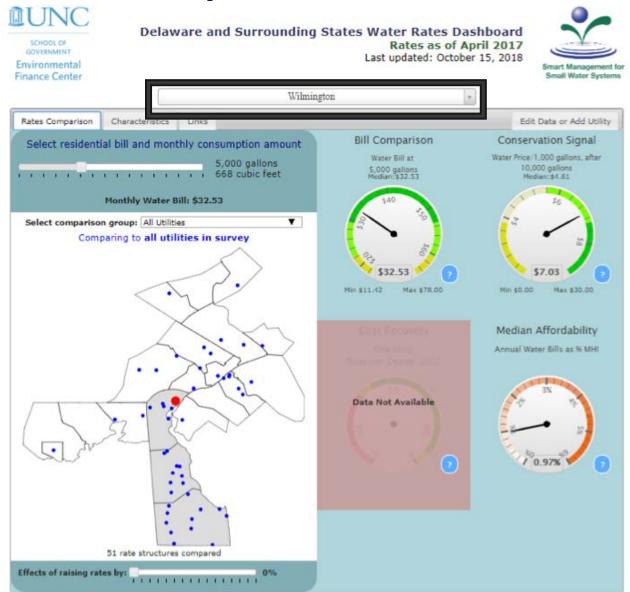






Who is in the Survey Group?

- 50 utilities across Delaware, Maryland, Pennsylvania, New Jersey serving ~4.5 million people
 - 35 Municipalities
 - 3 Counties or Districts
 - 6 Authorities
 - 6 For-profit
- 51 total rate structures represented:
 - Delaware: 27
 - Maryland: 3
 - New Jersey: 9
 - Pennsylvania: 12





Delaware and Surrounding States Water Rates Dashboard Rates as of April 2017 Last updated: October 15, 2018



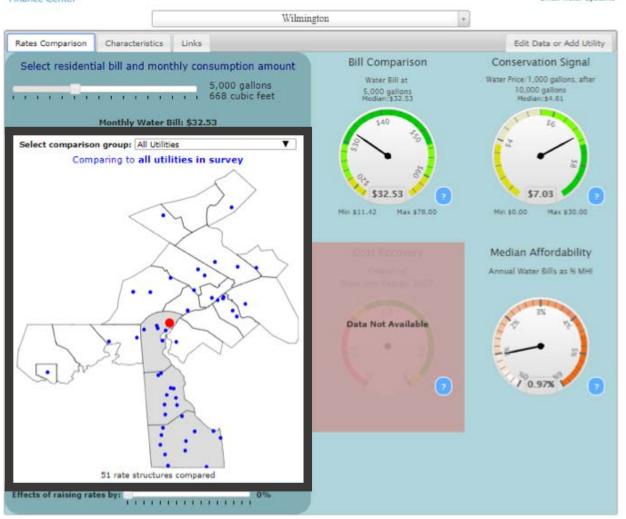




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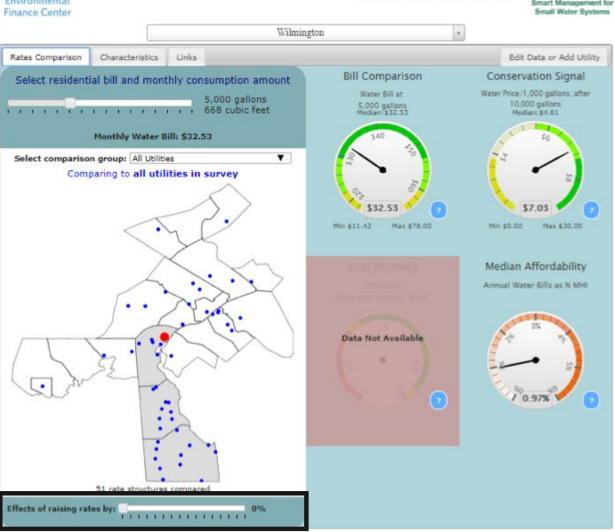






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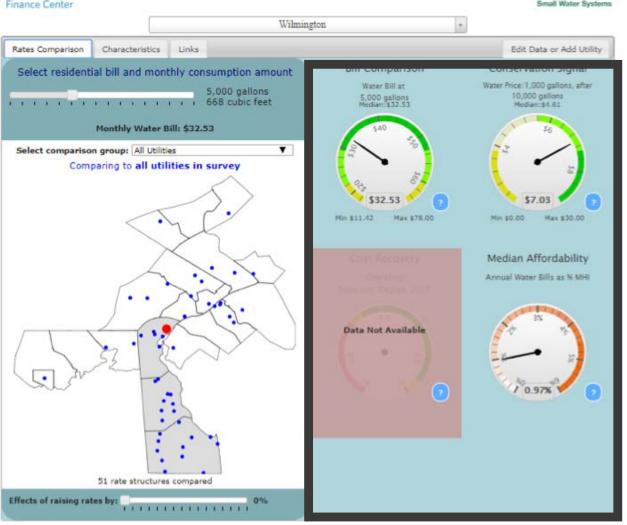




Delaware and Surrounding States Water Rates Dashboard

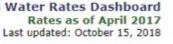
Rates as of April 2017 Last updated: October 15, 2018



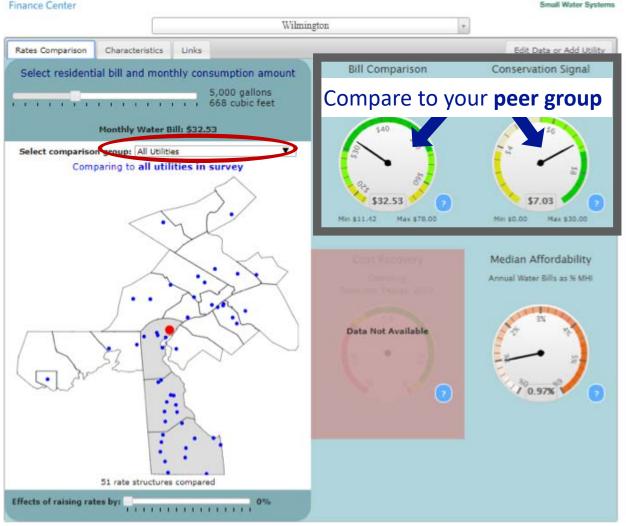




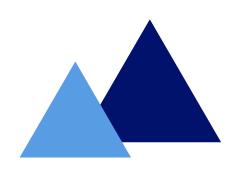
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Compare Your Rates to Rates of Systems that have Similar ...



\$ | |



Size

Rate Structure

Location







Demographics

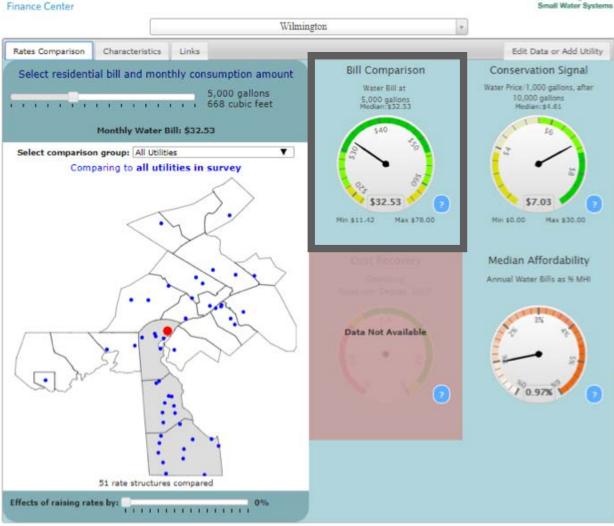
Type

Financials



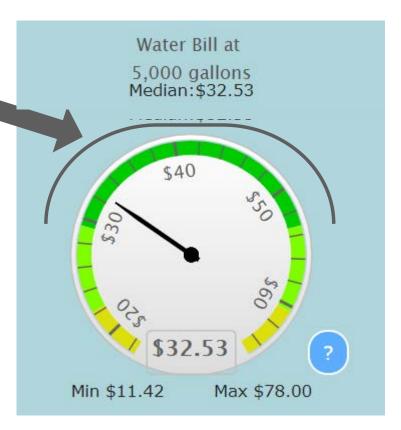
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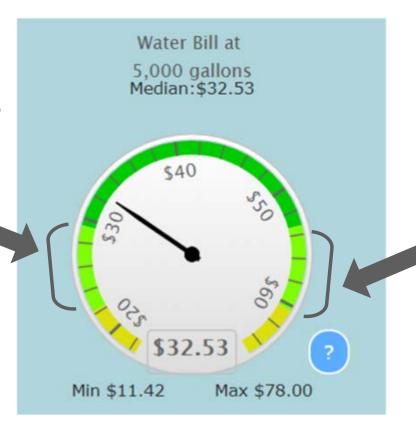
Darkest green band = middle 50% of utilities

Half of all utilities in your peer group have bills that fall within this range



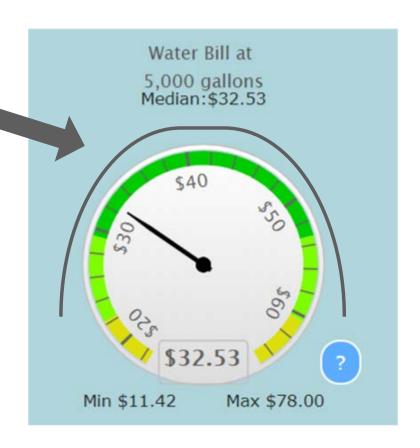
Light green bands = the 15% below and above the middle 50%

15% of utilitiesin your peer group havebills lower than themiddle 50%,15% have bills higherthan the middle 50%



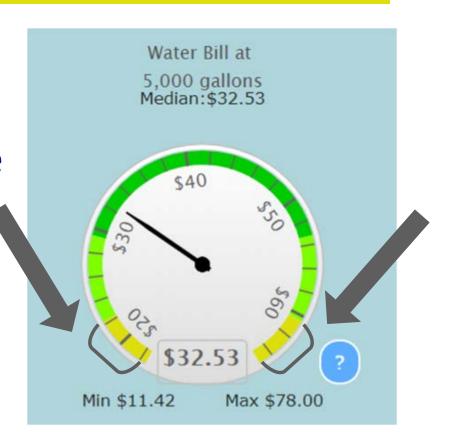
Both greens combined = 80% of utilities

The majority of all utilities in your peer group have bills that fall within the range of the green bands



Yellow = the lowest and highest 10% of utilities

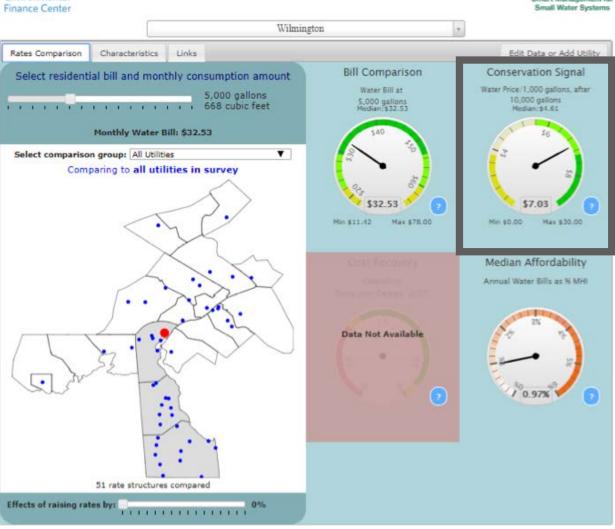
10% of utilities in your peer group have bills lower than 90% of other utilities, 10% have bills higher than 90% of utilities





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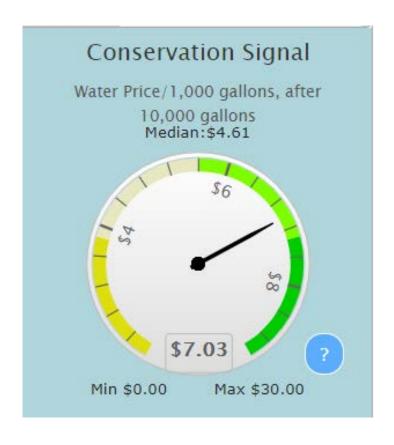




Dial: Conservation Signal

Colored bands = quartiles

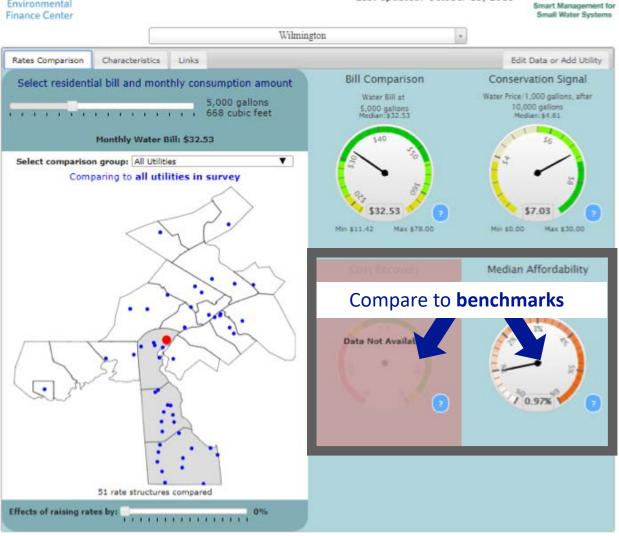
In this example, the marginal price of 1,000 gallons is in the 75th percentile among its peer group, promoting a moderately strong conservation signal





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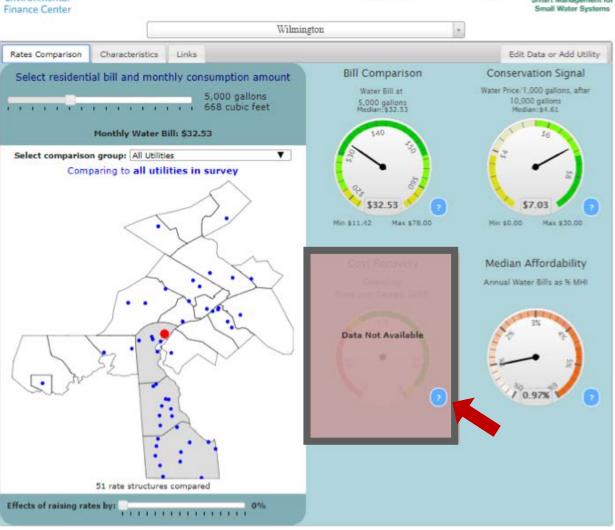


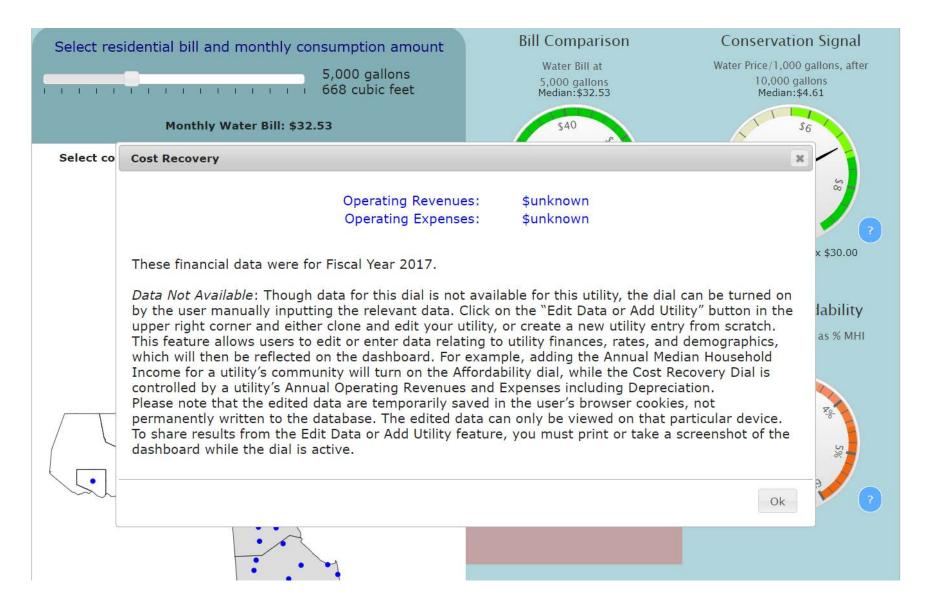




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Red = costs exceed revenues; a concern for financial sustainability



Yellow = revenues are sufficient to cover costs, but could be problematic in long-term



Green = revenues are likely enough to pay for day to day costs as well as long-term goals



Yellow = revenues may be "too" good

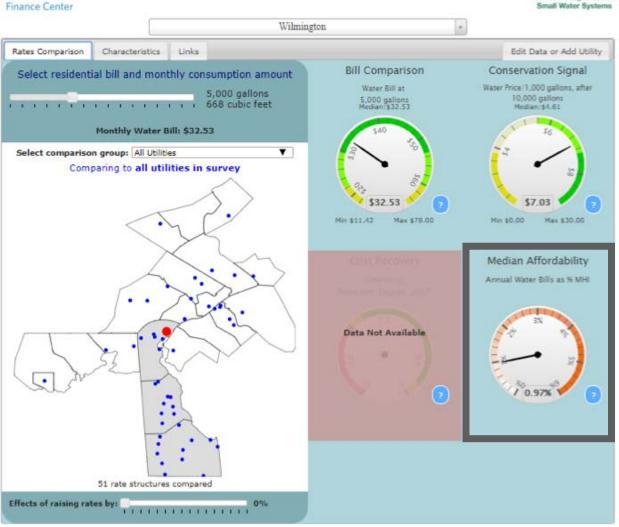




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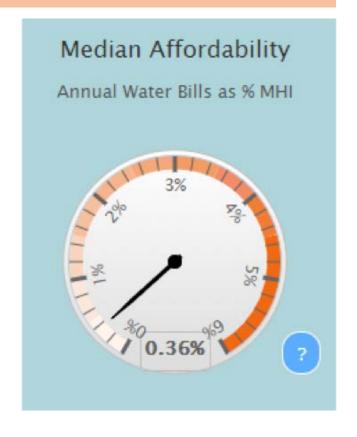


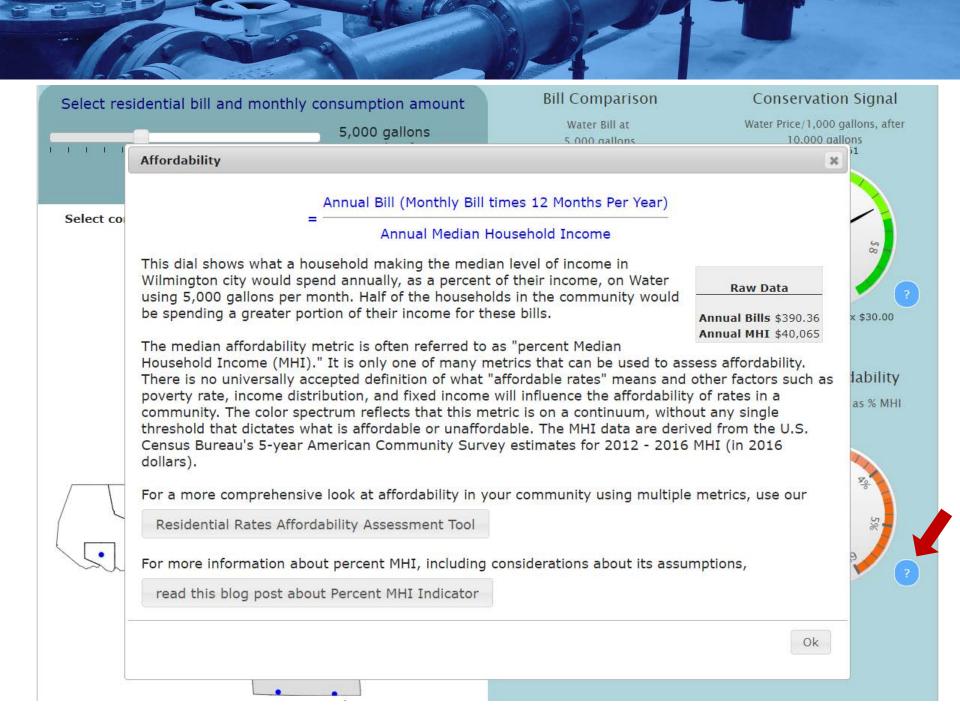


Dial: Median Affordability

Darker shades of orange indicate a higher percentage of MHI spent annually on bills

The percentage of median household income (MHI) spent annually on water and wastewater bills







Rates Comparison

Delaware and Surrounding States Water Rates Dashboard Rates as of April 2017

Smart Management for Small Water Systems

Last updated: October 15, 2018



Characteristics

Wilmington

Links

Edit Data or Add Utility

Utility Owner	
Ownership type	Municipality
Primary County	New Castle County
Primary service area	Wilmington city
Date Rates Effective	unknown

Select comparison group: All Utilities

	Wilmington city	Median for all utilities in survey	Statewide Stats
Number of Systems	1	51	51
Est. Number of Connections	39,000	3,787	
Est. Service Population	107,976	9,900	
Average Household Size	2.42	2.57	2.61
Median Household Income	\$40,065	\$54,218	\$61,017
Poverty Rate	26.08%	12.19%	12.04%



Finance Center

Rates Comparison

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Smart Management for Small Water Systems

Edit Data or Add Utility

Wilmington

Characteristics Links

This Rates Dashboard is designed to assist utility managers, finance directors, Board members, local officials, reporters, and customers to compare their utility's residential water rates against multiple factors, including system characteristics, customer base demographics, and geography. Users can manually/temporarily input financial data using the Edit Data or Add Utility button to turn on the Cost Recovery dial (on the user's local machine only – this is cookie based).

The Delaware and Surrounding States Water Rates Dashboard was constructed as part of Smart Management for Small Water Systems, a nationwide project of the Environmental Finance Center Network (EFCN) that provides a variety of free resources to systems serving 10,000 people or fewer. Survey data were collected by the University of Delaware's Water Resources Center. The Environmental Finance Center at the University of North Carolina at Chapel Hill created the Dashboard with funding provided by a cooperative agreement with the US EPA. Additional free resources for water and wastewater utilities are provided below.

Delaware Water Resources Center Water & Wastewater Rates Analysis Model Direct Assistance for Small Systems Drinking Water State Revolving Fund DE League of Local Governments DE Divison of Water Email Feedback or Comments Additional Tools and Resources Water & Wastewater Rates Analysis Model Financial Health Checkup for Water Utilities Plan to Pay: Fund Your Capital Improvement Plan Residential Rates Affordability Assessment EPA Water Finance Clearinghouse Environmental Finance Blog



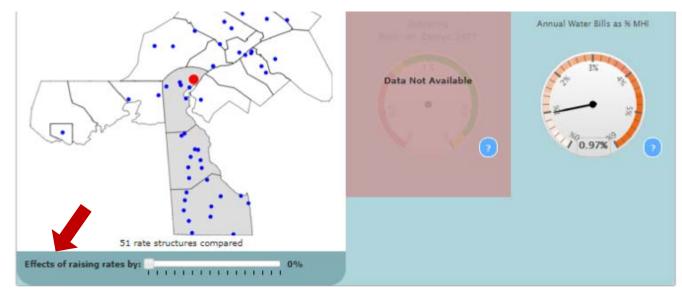
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Let's take a live look at additional features...



When To Use This Tool

- As part of your annual rate review
- When presenting to boards or other decision makers on the need to change rates
- When explaining rates to customers
- For private systems, as part of your PUC rate case

Questions? Feedback?

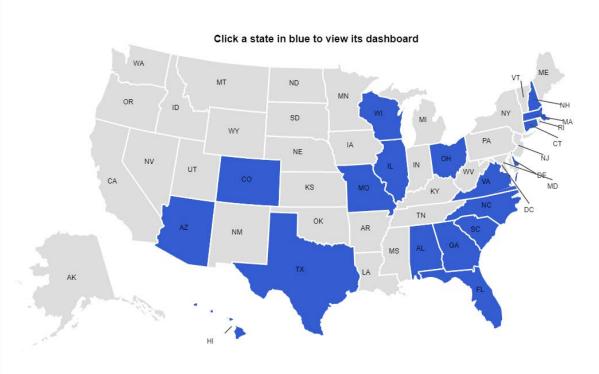


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All Dashboard States