

KNOW YOUR WATER FOR STATE & LOCAL GOVERNMENT

PROBLEMS

- Need to implement even more conservation to stretch supplies
 - No common way to measure water use and source water requirements
 - No validation method to check reliability of water use data
 - No accurate way to track water use improvements
 - No way to identify economic optimum improvement measures

SOLUTION

AWWA's M36 Methodology and FREE Water Audit Software for Utilities

- Nationally Recognized Methodology used in many states
- The industry standard tool for water system accounting
- Water Balance model where all water is accounted for
- Contains a data validation component
- Provides guidance on when and how to engage in water loss control
- Identifies economic optimum improvement measures



BENEFITS

- Easy process to collect Reliable and Accurate Water Use Data
- Data validation process to assess credibility of data
- True Supply-side (water system) conservation
- Saves water by reducing losses which will help stretch supply
- Provides tools to measure improvements
- Saves money by targeting the Economic Optimum loss and intervention
- Improved Bond Ratings for Utilities that complete AWWA Water Audit

Water Efficiency & Water Loss Control Program

Program that Works! Pilot Program /12 Utilities

2016 Pilot Program - 3 Utilities

Granger Hunter Improvement District Kearns Improvement District Orem City

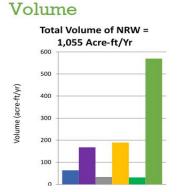
2018 Pilot Program - 9 Utilities

Jordan Valley Water Conservancy District Lehi City Water Department Murray City Nibley City Provo City Water Resources Department Taylorsville Bennion Improvement District

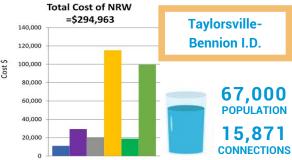
WaterPro / Draper Irrigation

Weber Basin Water Conservancy District

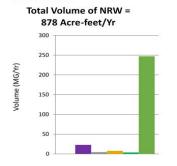
12 Unique Outcomes—2 Examples



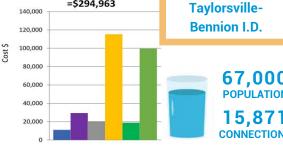
Value



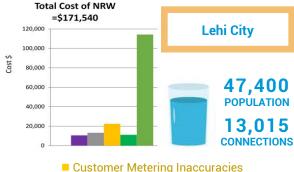
Volume



- Unbilled Metered
- Unbilled Unmetered
- ■Unauthorized Consumption



Value



■System Data Handling Errors

■Real Losses

Four Part Program to Deliver **Accurate and Validated Data**

Initial Costs: \$1.5M over two years On-going Annual Cost: \$300,000



ENSURE RELIABLE DATA

Provide Technical Assistance Program for Utilities

CONFIRM DATA IS VALID

Develop Level 1 Water Audit Validation Certification Program



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Initial Cost: \$400,000 to \$450,000

Provide level 1 Validation

Initial Cost: \$850,000 to \$900,000

Objective: Develop certificate program. Train and certify individuals to conduct third -party, independent validation of audit data

Targeted Program

104 Utilities in Utah

Serving Populations >3,300

104 Utilities Represent

of the Service Population in Utah

Objective: Train each utility on how to properly

conduct an audit; provide tailored action items

and economic justification for water loss control.



Develop Data Input Module that Integrates with current Water Use Data Input



Initial Cost: \$75,000 to \$100,000

Objective: Integrate the State's water use data needs with the AWWA Free Water Audit Software

CREATE CONSISTENT **PROCEDURES**

Develop Rules for Data and Water Audit Submittal



Initial Cost: \$30,000 to \$50,,000

Objective: Develop a coordinated and consistent set of rules for utilities and State Agencies to follow for input, storage, extraction and analytics processes



