Collecting Current Texas Public Water System Boundary Data

Texas GIS Forum
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Genera Navarra
Acronyms

- **PWS**: Public Water System
- **TCEQ**: Texas Commission of Environmental Quality
- **TWDB**: Texas Water Development Board
- **TWSBV**: Texas Water Service Boundary Viewer
Overview

Why the TWDB Created TWSBV
How the TWDB Created TWSBV
Data Collection and Review
Data User Stories
Public Application Demo
TWSBV Enhancements
Summary
Why was the TWSBV created?

Need for a current PWS boundary layer.

Other Texas water utility maps do not meet the need.
What would TWSBV need?

- Current retail water service areas
- Enlist the support of PWS editors
- Program administration
- Dissemination of water use data

Photo by Alan Liu on Unsplash
How Did We Create TWSBV?

- 2009 TWDB research grant
- 2016 USGS research grant
- 2019 TWSBV first deployed

Photo by Mark Fletcher-Brown on Unsplash
## Data Collection and Review

<table>
<thead>
<tr>
<th>Role</th>
<th>Tasks</th>
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| **Editor** | • Updates or verifies  
             • Submits boundary                                           |
| **Administrator** | • Reviews  
                             • Approves or seeks clarification  
                             • Provides customer service |
| **Public** | • View data  
               • Create PDF map  
               • Download report or spatial data                            |

Photo by [Scott Graham on Unsplash](https://unsplash.com)
Administrator

Photo by Aram Sabah on Unsplash
Example: Overlapping Boundary

Boundary Overlaps
Click in List to Show

TX1290012: COLLEGE MOUND SUD
TX1290004: CITY OF KEMP
Example: Overlapping Boundary
Data User Stories

Public
- Locate utility
- Find utility information

City
- Find utility information
- Lead and Copper Rule implementation

Regional
- Regional water plan development
Data User Stories

State
- Population and demand projections
- Socio economic analysis
- Project funding allocations
- Water emergency
- Public complaints
- Water related public health research

National
- Climate justice screening tool
- National PWS Map
Public Application Demonstration

Launch public demo
What are our plans for TWSBV?

- Additional Reports
- Analytical Tools
- Dashboard

TWSBV 2 is coming to you!

Photo by Elena Koycheva on Unsplash
Takeaways

The need for TWSBV’s creation

How the data is maintained

Who uses the data

How to use the data

What is in store for TWSBV
Tomorrow (10/26/2023) 8:30-9:00 AM
Census-based Public Water System
Population Estimates 2010, 2020
Amanda Covington, Emma Jones; TWDB
Location: Balcones Room
Thank you

Genera Navarra
TWSBV Administrator
Office: 512-463-9637
Email: WSBViewer@twdb.texas.gov
Texas Water Development Board