

Water and Equity in the Texas Hill Country

Web Tool
User Guide

texas hill country
conservation network

Getting Started

Legend

Water and Equity in the Texas Hill Country

Hill Country County

Water Equityscale

Drinking Water Violations

- 0 - 25
- 26 - 100
- 101 - 250
- > 250

Water Bill Burden

- Moderate-High
- High
- Very High

Aquifer Water Level Decline

- Moderate - High
- High
- Very High

Layer List

Layers

- Water and Equity in the Texas Hill Country
 - Hill Country County
 - Water Supply and Recreational Access
 - Water Quality and Water Threats
 - Current Demographics
 - Communities at Risk
 - Water Equityscale
 - Drinking Water Violations
 - 0 - 25
 - 26 - 100
 - 101 - 250
 - > 250
 - Water Bill Burden
 - Moderate-High
 - High
 - Very High
 - Aquifer Water Level Decline
 - Moderate - High
 - High
 - Very High
 - Percent Impaired Stream



Select the dropdown arrows next to each group to view layers within the group.



Select both the group checkbox and layer checkbox to view a layer on the map.



Layers will draw based on the order in the Layer List side panel- layers at the top of the list may cover others below it if both layers are selected.



Turn off the "Hill Country County Label" layer to remove county labels.

Overview

The screenshot displays a web application interface for "Water and Equity in the Texas Hill Country," a project under the Texas Hill Country Conservation Network. The interface includes a search bar (10) with the placeholder "Find address or place" and a search icon. A vertical toolbar on the left contains icons for home (6), layers (3), and information (5), with additional icons for zoom in (+), zoom out (-), and a search icon (2). The map area (14) shows the Texas Hill Country region with county boundaries and labels for cities such as San Angelo, Brady, Killeen, Round Rock, Austin, Fredericksburg, Kerrville, San Marcos, New Braunfels, San Antonio, Uvalde, Acuña, Piedras Negras, Victoria, and Waco. A scale bar (12) indicates 30 miles, and a coordinate display (13) shows the location as approximately -101.041, 28.718 Degrees. The interface is powered by Esri and includes a footer with "All rights reserved" and a list of data sources: Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, FAO, NOAA, USGS, EPA...

Built to visualize the intersection of diversity, equity, and inclusion and environmental justice issues with water characteristics and challenges in the Texas Hill Country.

Features

- 1 **NRI Logo:** Navigates back to main Texas A&M Natural Resources Institute website.
- 2 **Legend:** Displays the legend for visible layers in the map.
- 3 **Layer List:** Displays the list of operational layers in the map.
- 4 **Basemap Gallery:** Displays available basemaps to view in the map.
- 5 **About:** Provides information about the map and application.
- 6 **Zoom:** Interactive zoom controls (+/-) for the map display. Click the Home button to zoom to the map's initial extent.
- 7 **Draw:** Click to draw basic graphics and text on the map.
- 8 **Measurement:** Click to measure the area of a polygon, length of a line, or to find the coordinate of a point.
- 9 **Print:** Click to print current map. Adjust map extent in map window for desired print extent. Add custom title in the "Map title:" call box. Leave all other options as default. Click the pdf link to open and save map.
- 10 **Search:** Enter an address or place to search on the map.
- 11 **User Guide:** Click to open a pdf web tool user guide in a new window.
- 12 **Expand:** Click the arrows to expand the side panel to view the legend, layer list, and about section.
- 13 **Scale bar and coordinates:** Scale bar displays the current map extent and the coordinates display the location of the pointer on the map.
- 14 **Map Window:** Simple mouse controls for map navigation
 - Mouse Wheel: Zoom in and out on the map, centered on the pointer
 - Pan: Left-click in map window and drag to area of interest
 - Layer Pop-Ups: Left-click on a feature to view information in map window

Data Sources

Texas Department of Transportation (TxDOT)

- Bridges
- Boat Ramps

Texas Commission on Environmental Quality (TCEQ)

- Groundwater Contamination Sites
- Underground Storage Tanks
- Landfills
- Superfund Sites
- Brownfields Sites
- Streams
- Impaired Streams
- Effluent Exceedances

Texas Railroad Commission (RRC)

- Injection Wells
- Pipelines

Texas Water Development Board (TWDB)

- Water Wells
- Water Well Water Level Decline
- Aquifers
- Aquifer Water Level Decline
- Public Water Systems
- Drinking Water Violations

The Nicholas Institute for Environmental Policy Solutions

- Water Bill Burden

Texas Parks and Wildlife Department

- Publicly Accessible Land

Multi-Resolution Land Characteristics (MRLC) Consortium

- Urban Development Change
 - National Land Cover Database (NLCD) change product from 2001-2019

Texas A&M Natural Resources Institute

- Rural Land Market Value (\$ per Acre)

Data Sources

United States Census Bureau

- Communities (Populated Places)
- County Boundaries
- Block and County Level Demographics
 - Individuals Over 64
 - Minority: Used to describe people of color by the EPA
 - Hispanic or Latino: A person of Cuban, Mexican, Puerto Rican, South or Central American, or other Spanish culture or origin regardless of race
 - Black or African American: A person having origins in any of the Black racial groups of Africa
 - Asian: A person having origins in any of the original peoples of the Far East, Southeast Asia, or the Indian subcontinent
 - American Indian: A person having origins in any of the original peoples of North and South America (including Central America) and who maintains tribal affiliation or community attachment
 - Below the Poverty Line: A family whose total income is less than the family's poverty threshold
 - Low Income: Households whose household income is less than or equal to twice the federal "poverty level"
 - Median Income
 - Unemployment
 - Below High School Education
 - College Education
 - Households in Linguistic Isolation

Environmental Protection Agency (EPA)

- EJScreen Demographic Index: Environmental Justice Screening Data
 - Highlights potential environmental justice communities
 - Based on % low income and % people of color
- Communities of Color
 - Individuals who list their racial status as a race other than white alone and/or list their ethnicity as Hispanic or Latino.
 - Derived from U.S. Census Bureau American Community Survey 2019

Economic Innovation Group (EIG)

- Distressed Communities Index
 - Examines economic well-being at zip code level
 - Includes housing vacancy rate and percent change in number of jobs

Centers for Disease Control and Prevention (CDC)

- Social Vulnerability Index
 - A community's ability to prepare for and respond to a hazardous event, either natural or man-made.
 - Variables include socioeconomic status, household composition and disability, minority status and language, housing type and transportation

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WEB TOOL CONTACT:
nri-gis@ag.tamu.edu

texas hill country conservation network

THCCN PARTNERS INVOLVED IN THIS PROJECT:



National Wildlife Federation
Texas Coast and Water Program



THE MEADOWS CENTER
FOR WATER AND THE ENVIRONMENT
TEXAS STATE UNIVERSITY



THE WATERSHED
ASSOCIATION
LAND · WATER · CONNECTION



hill country alliance



TEXAS
WATER
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