Texas EFIS

Environmental Flows Information System

OVERVIEW

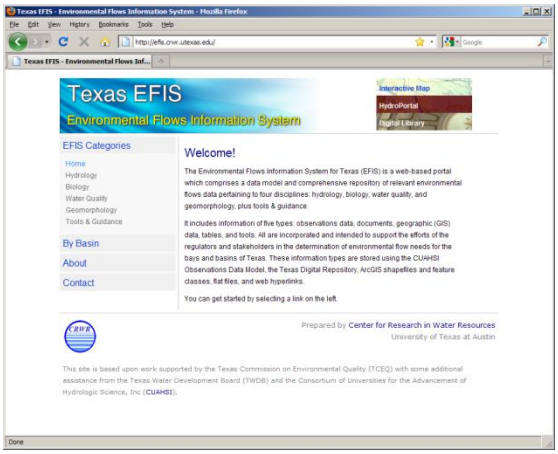
EFIS seeks to provide data access and data integration to aid stakeholder committees, expert science teams, and the Texas Commission on Environmental Quality in their collective efforts to determine statewide environmental flow needs for the bays and basins of Texas.

http://efis.crwr.utexas.edu

EFIS is a web portal for environmental flows data in Texas, including hydrology, biology, water quality, geomorphology, plus tools & guidance.

EFIS includes observations data, documents, geographic (GIS) data, tables, and tools from federal, state, academic, river basin, and local sources.

EFIS was developed by and is hosted at the Center for Research in Water Resources at The University of Texas at Austin with funding and support from the Texas Commission on Environmental Quality.



CONTENT

EFIS contains nearly 100 components from over 25 contributors specific to the disciplines relevant to the study and determination of environmental flow needs, including the following examples.

Hydrology – Data and reports on Texas streamflow; information on the classification of flow components for both high and low flows; and a number of freely-available tools, models and calculators such as HEFR, IHA, and TXHAT.

Biology – Fish and habitat data for multiple bays and basins across Texas; data on seagrass, mussels, and oysters; various ecological classifications; and guides to the study of Texas fishes such as trophic guilds, conservation status, non-natives, and IBIs.

Water Quality – Inland and coastal observations data from TCEQ, TWDB, TAMU, and USGS; TMDL program information; and pertinent Texas water quality regulations.

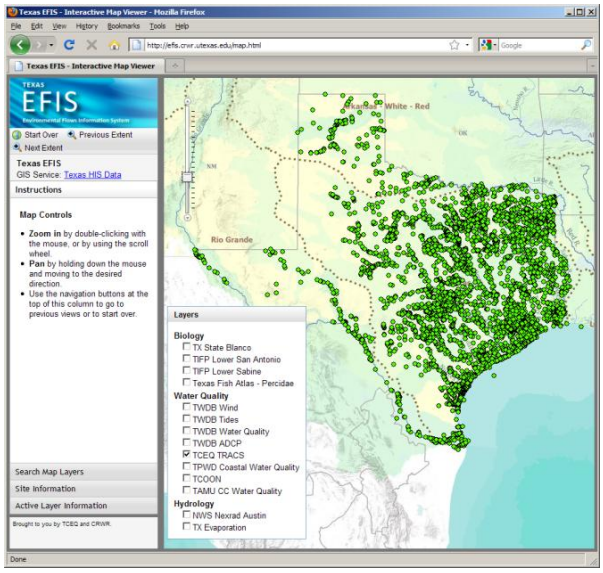
Geomorphology – Suspended sediment data and reports from TWDB and UT-CRWR; geologic atlas data and information; and Bureau of Economic Geology maps and data.

Tools & Guidance – Regulations and information relating to Senate Bills 2 and 3; links to CUAHSI data access and analysis tools like HydroExcel and HydroDesktop; information on Hydrologic Information Systems, Texas stream classification, the Texas Instream Flow Program, and biological data management; and links to a pair of 'digital libraries' specific to water issues in Texas and to the online Texas Water Journal.

Calculator for Low Flows – CaLF is a downloadable tool built in Microsoft Excel to automatically get USGS streamflow data, to generate the 7Q2, to create and plot a flow duration curve, to calculate the harmonic mean, and to determine the Lyons Method minimum flow.

USING EFIS

EFIS offers four avenues to access information: via the web page, the interactive online map viewer, the digital library, and the HydroPortal.



The web page is ideal for downloading tables, tools, and data and for accessing links. It includes information sorted by discipline and **By Basin** plus contacts for those involved in the SB3 process.

The map viewer is ideal for viewing and querying observations data in a geographic context.

The digital library is ideal for searching and downloading technical reports, articles, theses, senate bills, and other such documents.

The HydroPortal is ideal for discovering and downloading geographic and observations data into ArcGIS or a KML-viewer such as Google Earth.

FOR MORE INFORMATION

More about EFIS, including additional documentation, workshop materials, and tutorials, may be found at: http://efis.crwr.utexas.edu/about.html.

To contribute to EFIS: http://efis.crwr.utexas.edu/contact.html.