CALCULATOR FOR LOW FLOWS (CALF)

Brief introduction to CalF and background of HIS and EFIS.
Clark Siler, 10 Jun 2010
Outline

- **Background**
  - CUAHSI HIS
  - TxHIS
  - EFIS

- **CaLF**
  - Demo
Background – CUAHSI HIS

- HIS: Hydrologic Information System
- Internet-based system for sharing hydrologic data
- Databases and servers, connected through web services
- Allows for the publication, discovery and access of data

Example

http://his.cuahsi.org/
**USGS 08192000 Nueces Rv bl Uvalde, TX**

**PROVISIONAL DATA SUBJECT TO REVISION**

Funding for this site is provided by the cooperators / programs below:

**Edwards Aquifer Authority**

**Cooperative Water Program**

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**Rainfall Disclaimer**

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**Retransmission, forecasts and summary by The National Weather Service**

This station managed by the San Antonio Field Unit.
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<th>Date</th>
<th>Discharge, ft³/s (Mean)</th>
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# WARNING
The data you have obtained from this automated U.S. Geological Survey database have not received director's approval and as such are provisional and subject to revision. The data are released on the condition that neither the USGS nor the United States Government may be held liable for any damages resulting from its use.


File-format description: http://waterdata.usgs.gov/nwis/?tab_delimited_format_info
Automated-retrieval info: http://waterdata.usgs.gov/nwis/?automated_retrieval_info

Contact: gs-w_support_nuisweb@usgs.gov
retrieved: 2010-06-10 07:27:50 EDT

Data for the following site(s) are contained in this file
USGS 08192000 Nueces Rv b1 Uvalde, TX

Data provided for site 08192000
DD parameter statistic Description
01 00060 0003 Discharge, cubic feet per second (Mean)

Data-value qualification codes included in this output:
A Approved for publication -- Processing and review completed.
E Value has been estimated

agency_cd  site_no  date    dt
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Background - TxEIS

- HIS for Texas
- Under development by TWDB
- Update?
Background – EFIS

- **EFIS**: Environmental Flows Information System (for Texas)
- Data model, data repository, and relevant tools

**Four disciplines:**
- Hydrology
- Biology
- Water Quality
- Geomorphology

**Five information types:**
- Observations Data
- Documents
- Geographic (GIS) Data
- Tables
- Tools

/http://efis.crwr.utexas.edu/
Calculator for Low Flows (CaLF)

- CaLF is one of the tools available from EFIS
- Use CaLF to:
  - Parameterize environmental analyses
  - Download USGS daily streamflow data
  - Calculate the 7Q2 flow value
  - Calculate and plot flow duration curve
  - Calculate Lyons’ method values
- Demo:

  [http://efis.crwr.utexas.edu/](http://efis.crwr.utexas.edu/)
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