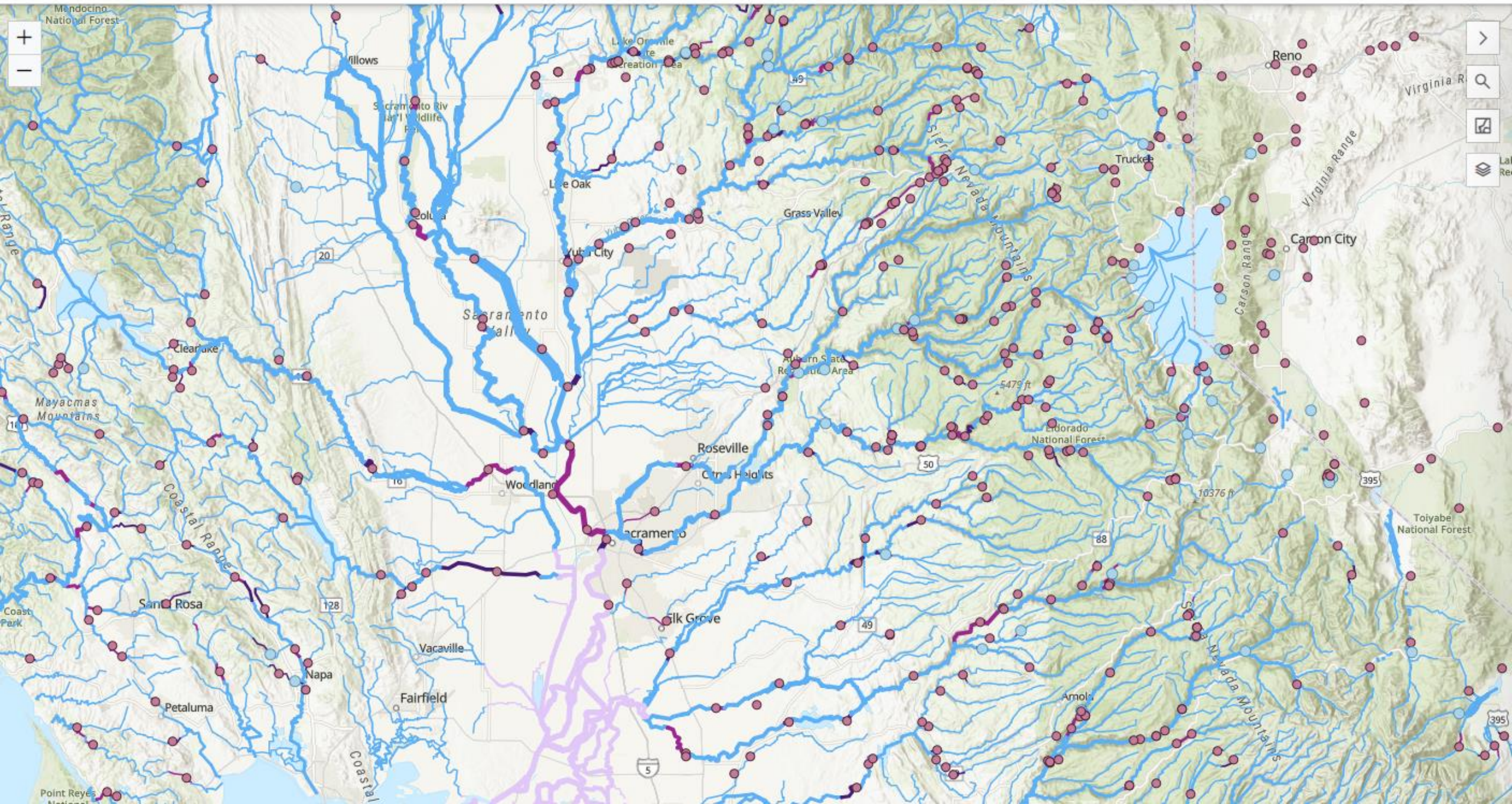# California Environmental Flows Framework Tools

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The Nature Conservancy, California

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rivers.codefornature.org

The Nature Conservancy | N▲TURAL FLOWS   Science   Map   Data   Apps   FAQ

California Natural Flows Database

Water is essential for California's people, economy, and environment. Centuries of water management through dams and diversion have altered the flows in many streams and rivers, which can harm the freshwater ecosystems. The Nature Conservancy and the United States Geological Survey (USGS), and other partners have generated estimates of natural flows (expected streamflow in the absence of human modification) in all the streams and rivers in California from 1950 to the present.

Explore the Data

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Science

Understanding natural flows and patterns of flow alteration is an important first step in improving the management of California's rivers and streams for human and ecosystem benefits. Read more about how the partners in this project modeled natural flows in all the streams and rivers of California.

Learn More

Map

Explore, visualize, and download the natural flows data with a map-based application. Search for stream segments, visualize estimated flow rates, and download flow data from an intuitive graphical user interface.

View Map

Data download and API

Feel more comfortable at the command line? Query the data directly using a REST API. Follow the link below for detailed documentation and code samples in R, Python, and JavaScript.

Read Documentation

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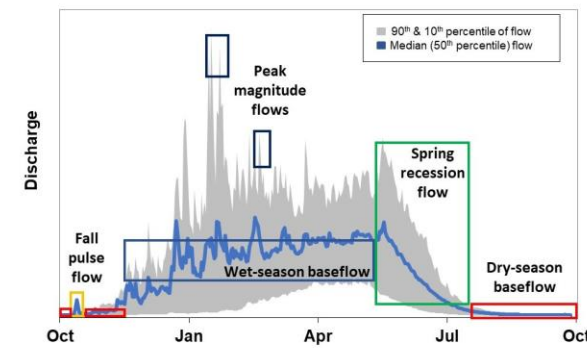
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ffm_8269099.csv   Show all

Functional Flows Calculator

- Tool that quantifies functional flow metrics based on long-term daily streamflow timeseries using signal processing algorithms (Patterson et al., 2020, J. Hydrol.)

- Available on various platforms:
  - Python: https://github.com/leogoesger/func-flow
  - R package: https://github.com/ceff-tech/ffc_api_client
  - E-flows website: https://eflows.ucdavis.edu/

Tool demo at 4pm in Coastal Room