

# Updating the National Hydrography Dataset for California

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# Who Are We?

**CSU** The California State University

WORKING FOR CALIFORNIA



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# NHD & California

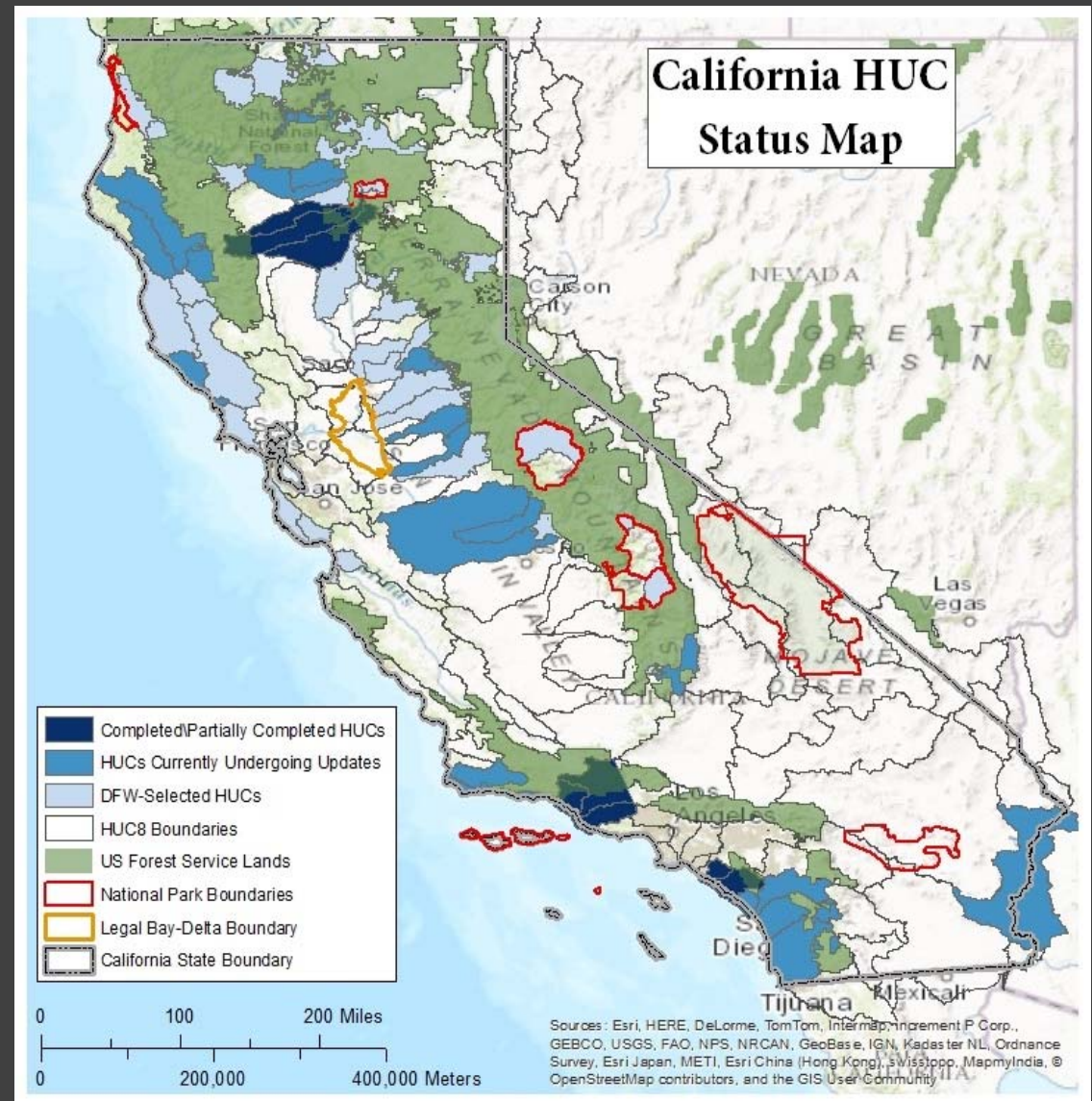
## California NHD Status:

- The NHD in many areas of the state is inaccurate.
- There is a *demand* for updated NHD data across multiple agencies, organizations, etc. in California.
- Some sub-stewards have made some smaller scale updates to select areas.
- Various independent updates to the NHD not associated with the stewardship system have been made.
  - Geometry updates
  - Attribution updates
  - Name additions
- Updating the NHD in CA will require major resources.



# NHD Statewide Update Effort

- Current funding will support updates for approximately **30%** of CA
- Priority areas selected
- Current update work is ongoing



# Support for NHD Improvement

*Partial* Funding provided by:



California Department of  
Fish and Wildlife

To



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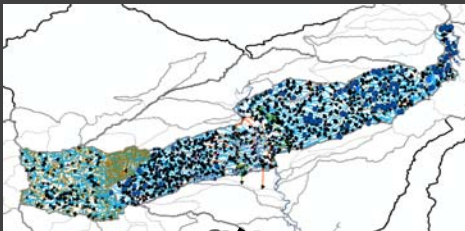
For a coordinated statewide NHD update effort

# NHD Stewardship System

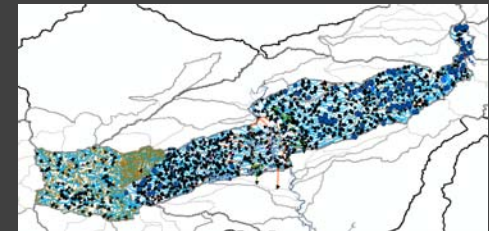
National DB



NHD Job  
Checked Out



NHD Job Checked  
Back In



Edits, Updates, and  
QC are Carried Out

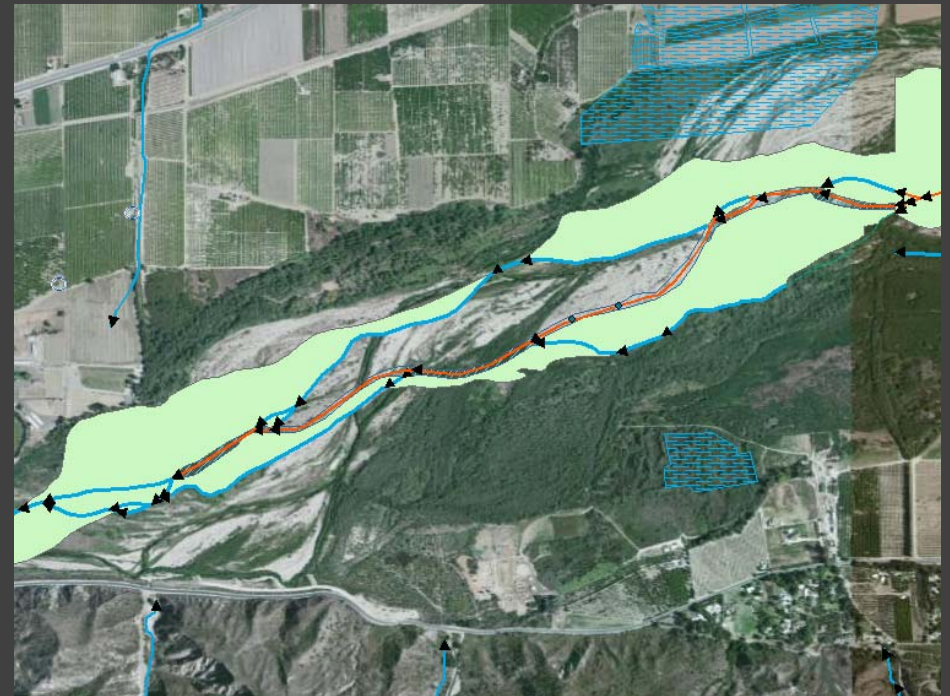




# NHD Statewide Update Effort

## Scope:

- 1:24,000 resolution
- Reference data – e.g. NAIP aerial imagery, local data sources
- CA DFW lake/reservoir dataset integration
- Provisional name integration
- Developed business rules & standards for CA
- Multiple quality control/quality assurance processes



Outdated NHD

Santa Clara River, Ventura CO, CA

# NHD Statewide Update Effort

## Data Improvements/Editing:

- Feature Improvement
  - Realignment
  - Reshaping
- Feature Densification
- Feature Deletion
- Attribution Updates





# Next Steps

- CA Department of Water Resources (DWR) has been designated as the official state steward.
- Limited funding to be allocated by the State of California
- Phased/prioritized approach to continuing updates across the state.



# HRBS: A Needs Assessment

## Hydrography Requirements and Benefits Study

- Needs Assessment spearheaded by USGS
- Identified key uses and benefits of hydrography data
  - Manage water supply
  - Flood Control & Flood Risk Analysis
  - Bay Delta Conservation Plan – Accurate hydrography needed for habitat impact analysis
  - Flow Modeling
  - Wetland and Riparian mapping, assessment and management
  - Surface Water Quality management, monitoring and enforcement
- Will be leveraged to address comprehensive approach to NHD in CA

# Getting Involved

- Input on priority regions
- Contribution of local hydro datasets to be used as reference/collateral data for feature updates
- Contribution of local data containing validated names to be used for provisional name integration
- Identifying areas that will benefit from high-res NHDPlus generation

# Contact Us

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# Questions/Comments

