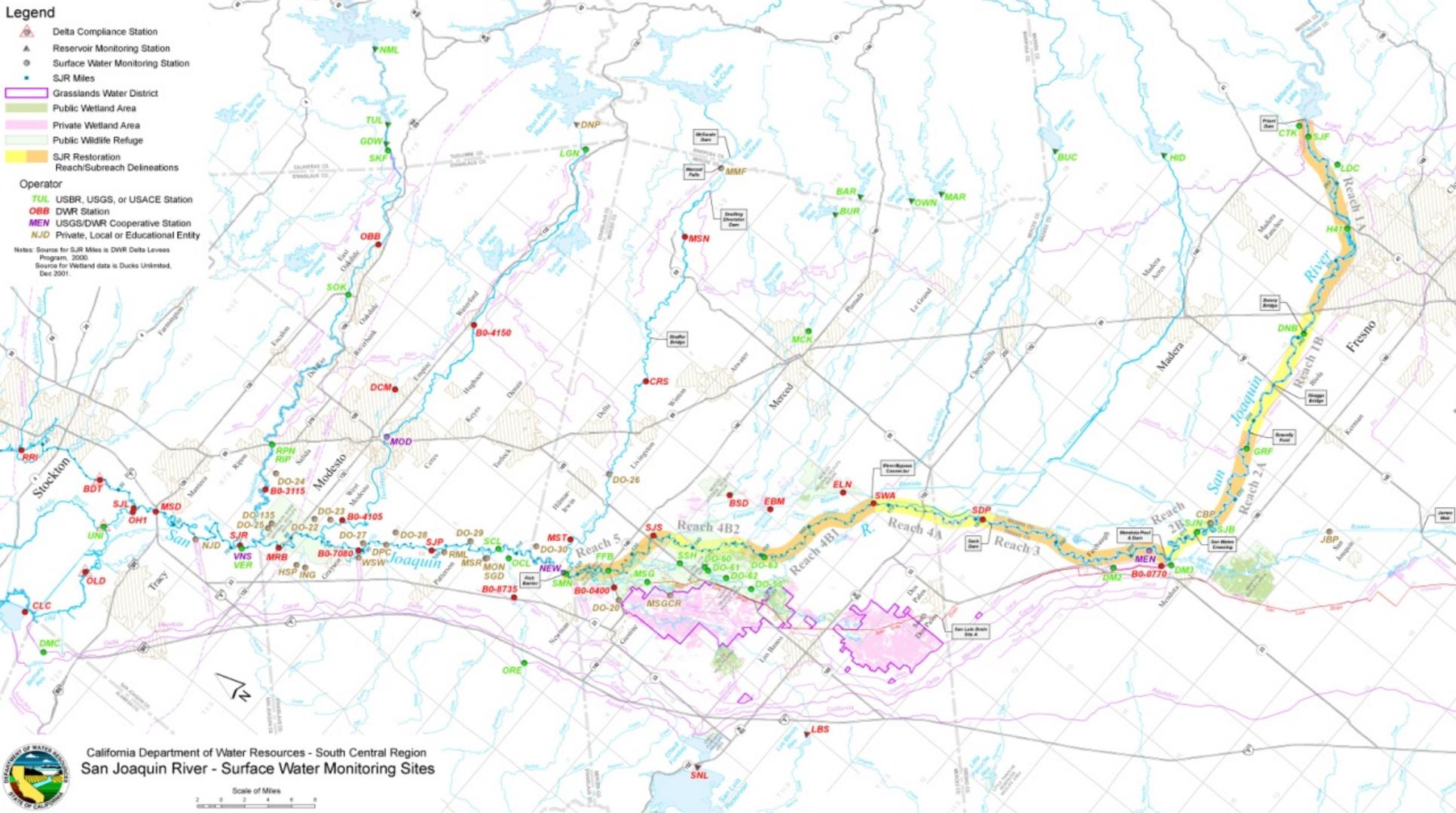


# San Joaquin River Regional Monitoring Program

Coalition for Urban Rural Environmental Stewardship - CURES  
US EPA region 9

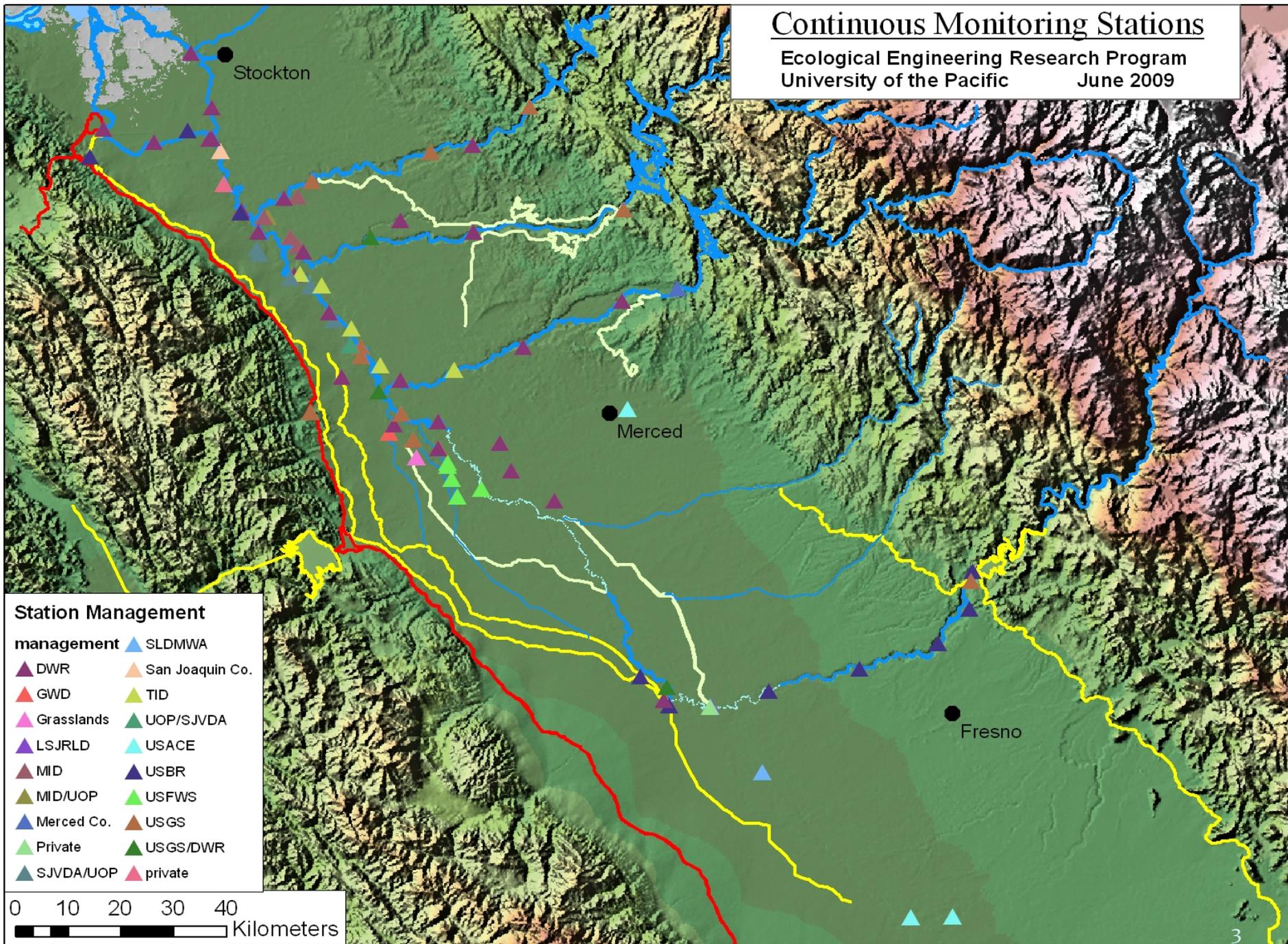
Slides excerpted from “Who’s Watching the San Joaquin River”  
meeting; February 14, 2012

# SJR – Surface Water Monitoring Sites



# Continuous Monitoring Stations

Ecological Engineering Research Program  
University of the Pacific  
June 2009



## Station Management

- |              |                   |
|--------------|-------------------|
| management   | ▲ SLDMWA          |
| ▲ DWR        | ▲ San Joaquin Co. |
| ▲ GWD        | ▲ TID             |
| ▲ Grasslands | ▲ UOP/SJVDA       |
| ▲ LSJRLD     | ▲ USACE           |
| ▲ MID        | ▲ USBR            |
| ▲ MID/UOP    | ▲ USFWS           |
| ▲ Merced Co. | ▲ USGS            |
| ▲ Private    | ▲ USGS/DWR        |
| ▲ SJVDA/UOP  | ▲ private         |

0 10 20 30 40  
Kilometers

# DWR Programs

- Flood Management
  - Forecasting and flood protection
- Environmental Programs
  - San Joaquin River Restoration Project
  - Salts management
- Reservoir operations
  - Inflow/outflow measurements
  - Downstream monitoring help operators manage releases



# DWR Surface Water Monitoring

- 24 - Continuous flow monitoring sites (on CDEC)
  - 17 – Fresno Office, 7 – Sacramento Offices
  - 8 – Multi-parameter sondes (pH, DO, EC, Temperature, Chlorophyll, & Turbidity); McCune near Vernalis (+++)
  - 4 – EC/temperature sensors on tributaries
- 11 – Grab sample locations (Fresno office)
  - Analyzed for nutrients, minerals, minor elements
- Additionally we contract with USGS to monitor Tuolumne @ Modesto & Orestimba Cr.



# Data Collection & Access

- Real-time data collection is uploaded via satellite to California Data Exchange Center (CDEC) and made available through our website <http://cdec.water.ca.gov/>
  - Data is uncorrected
  - Shifts (flow corrections) are NOT done in arrears
- Continuous data is collected usually on a monthly basis and stored in-house in our hydrologic database
  - Corrected data is available by request after the end of the water year
  - Contact: Iris Yamagata [irisy@water.ca.gov](mailto:irisy@water.ca.gov)



### MOST POPULAR LINKS

- [Executive Summary](#)
- [Real-time Data](#)
- [Daily Data](#)
- [Monthly Data](#)
- [Historical Data](#)
- [Data Plotter](#)
- [Station Search](#)
- [Station Locator](#)
- [Daily Water Temperatures](#)
- [Reports](#)
- [Other Related Data Sources](#)
- [Contact CDEC Staff](#)

### RELATED LINKS

- [California Cooperative Snow Surveys](#)
- [State Climatologist](#)
- [State Meteorologist](#)

## Historical Data Selector

To retrieve a large volume of historical data:

1. Specify a three-letter CDEC [Station ID](#).  
Specify four or more letters to search for all Station Names containing the letters. Specify one or two letters to retrieve Station IDs that begin with what you specify. Specify a [Snow Course](#) number for combined depth and water content.
2. Specify a [Sensor Number](#). Leave blank for a list of sensors for a particular station.
3. Select a [Duration Code](#). Event Data is measured when conditions change or every 15 minutes.
4. Enter a [Start Date](#) or an [End Date](#).  
Leave [Start Date](#) blank for one month back of records. Leave [End Date](#) blank to retrieve records up to present.
5. Click the "**Get Data**" button only once.

Station ID  Sensor Number  Duration Code  Monthly, or  Daily, or  Hourly, or  Event

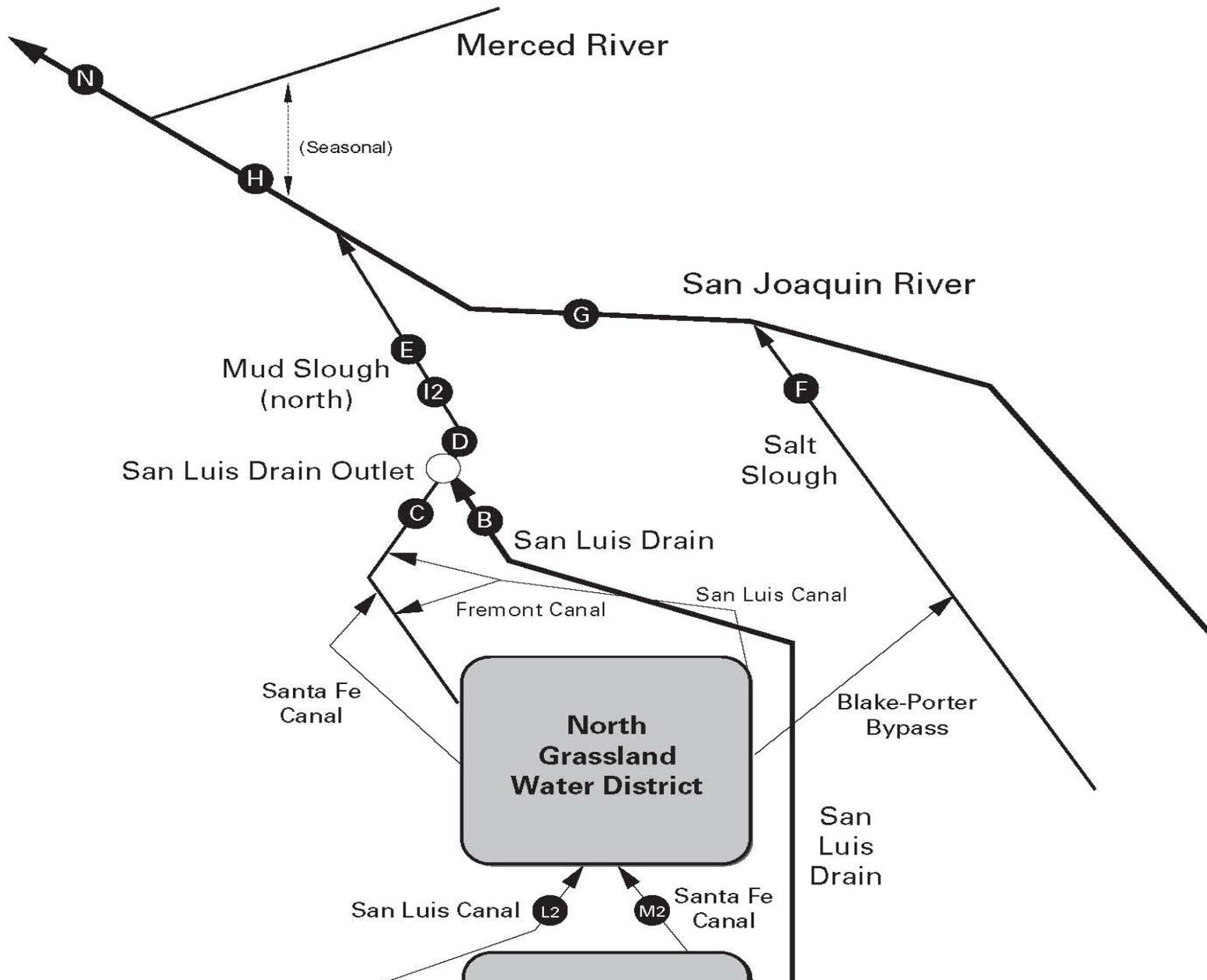
Start [date](#):  End [date](#):

For reference, check the [Station Information page](#) for a list of Real-Time Stations, Daily Stations, Monthly Stations, precipitation sensors, reservoir stations, or river gage stations. To generate custom lists, please use the [CDEC Station Search](#)

# Lower San Joaquin River



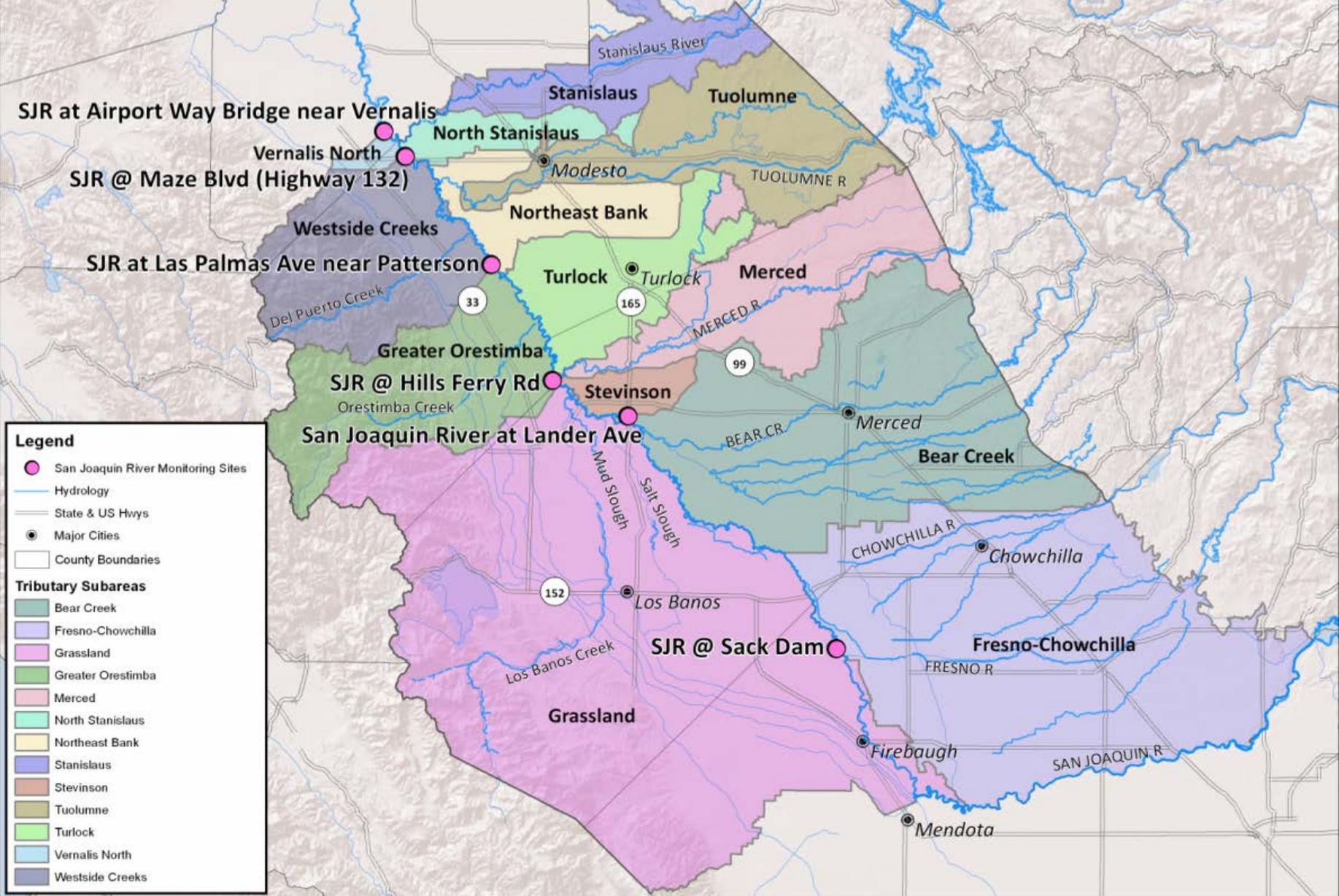
Slide provided by the CVRWQCB



# Summary of Water Quality and Flow Monitoring

	San Luis Drain			Mud Slough (north)	
	A	B	B	C	D
	San Luis Drain near South Dos Palos, CA	San Luis Drain near Gun Club Road		upstream of San Luis Drain	Downstream of San Luis Drain
Frequency	Weekly	Weekly	Daily	Weekly	Weekly
Begin	10/3/1996	10/3/1996	10/1/1996	10/03/96	10/03/96
	EC, Se, B	EC, Se, B	EC, Se, B	EC, Se, B	EC, Se, B
Data source:	MER562(s)	MER535	MER535s	MER536	MER542

Information provided by C. Eacock, USBR



**Legend**

- San Joaquin River Monitoring Sites
- Hydrology
- State & US Hwys
- Major Cities
- County Boundaries

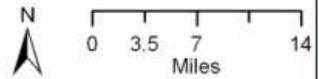
**Tributary Subareas**

- Bear Creek
- Fresno-Chowchilla
- Grassland
- Greater Orestimba
- Merced
- North Stanislaus
- Northeast Bank
- Stanislaus
- Stevinson
- Tuolumne
- Turlock
- Vernalis North
- Westside Creeks

Source of Layers:  
 Hydrology - NHD hydrodata, 1:24,000-scale, <http://nhd.usgs.gov/>  
 Roads, highways, railroads, county boundary, city outlines - California Spatial Information Library.  
 SJ River Tributary Subareas - DVR  
 Shaded Relief Basemap - ESRI  
 NAD 1927

# San Joaquin River Sampling Sites

Date Prepared: 10/06/10  
 ESJWQC



# Status of SJR RMP development

- Deciding focus of assessment “question(s)”
  - Strawman plan focus is salt/nutrients
  - EPA / Regional Board discussing their priorities
- NPDES / WDR stakeholder “temperature” on RMP
  - Salt / nutrient: “OK; let’s talk more”
  - Toxicity / chemistry: “must be mandated”
- CURES to finalize deliverables
  - Summary recommendations on plan
  - Hold 2012 or 2013 workshop on “questions”
- EPA to release next RFP for organizing RMP
  - Timing 2013?