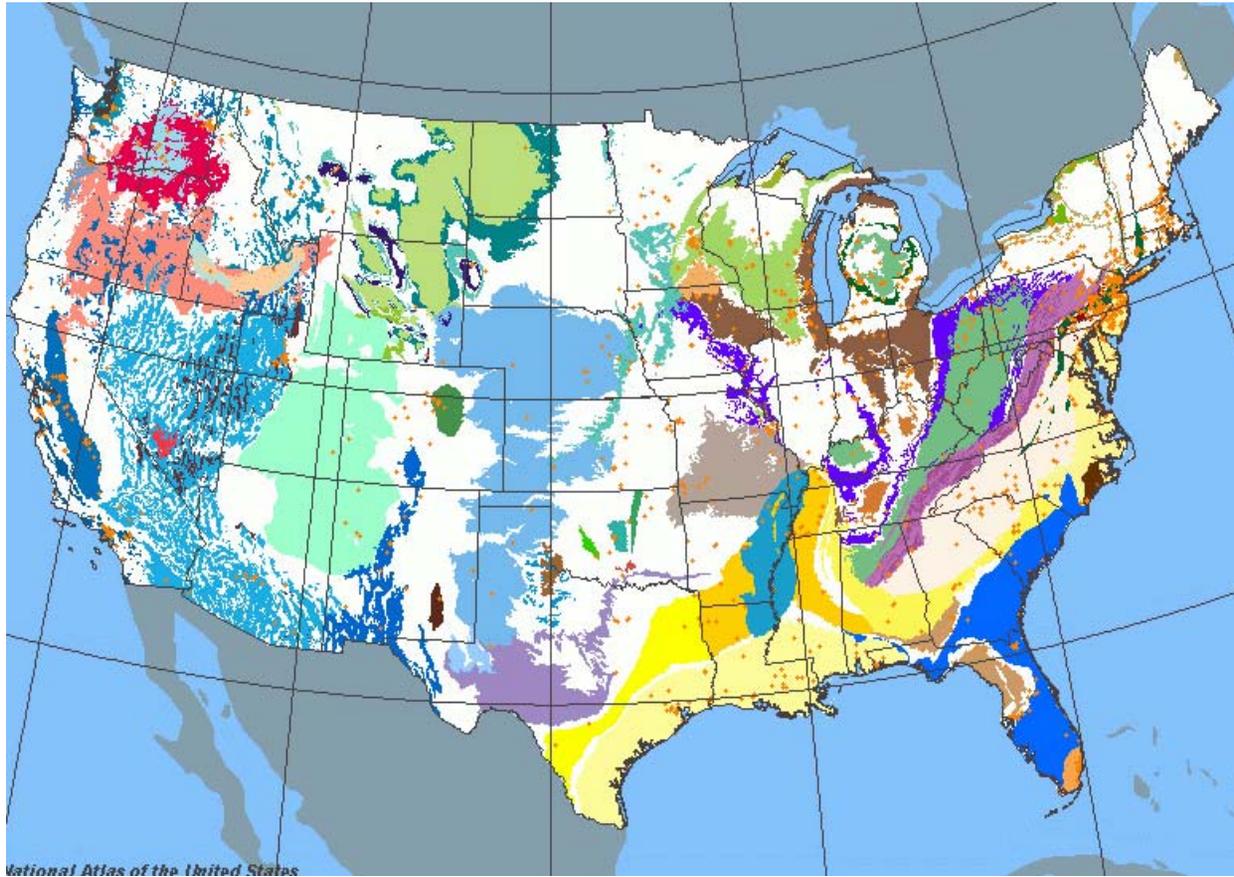


California Groundwater Monitoring Programs



Presentation to ACWI Subcommittee on Ground Water
Reston, Virginia - May 21, 2007
Tim Parker, Schlumberger Water Services



Outline

- California background
- California state agency monitoring and portals
- Comprehensive Statewide Groundwater Quality Monitoring Program (“GAMA”)



Acknowledgements

- Eric Senter, California Department of Water Resources
- Ken Belitz & Eric Reichard, U.S. Geological Survey
- Rob Swartz, Sacramento Groundwater Authority
- Ali Taghavi, WRIME
- SOGW AND NGWA for invitation to present

California Water Background



- Population:
 - 2006 37 million
 - 2030 50 million
- About 2/3 of the State's surface water runoff occurs north of Sacramento
- About 2/3 of the State's water needs occur south of Sacramento
- Irrigated Acreage: 9.5 million
- Nearly 20 percent of national groundwater extraction



**Hetch Hetchy
(1913)**

**Mokelumne
Aqueduct (1929)**

San Francisco

Central Valley

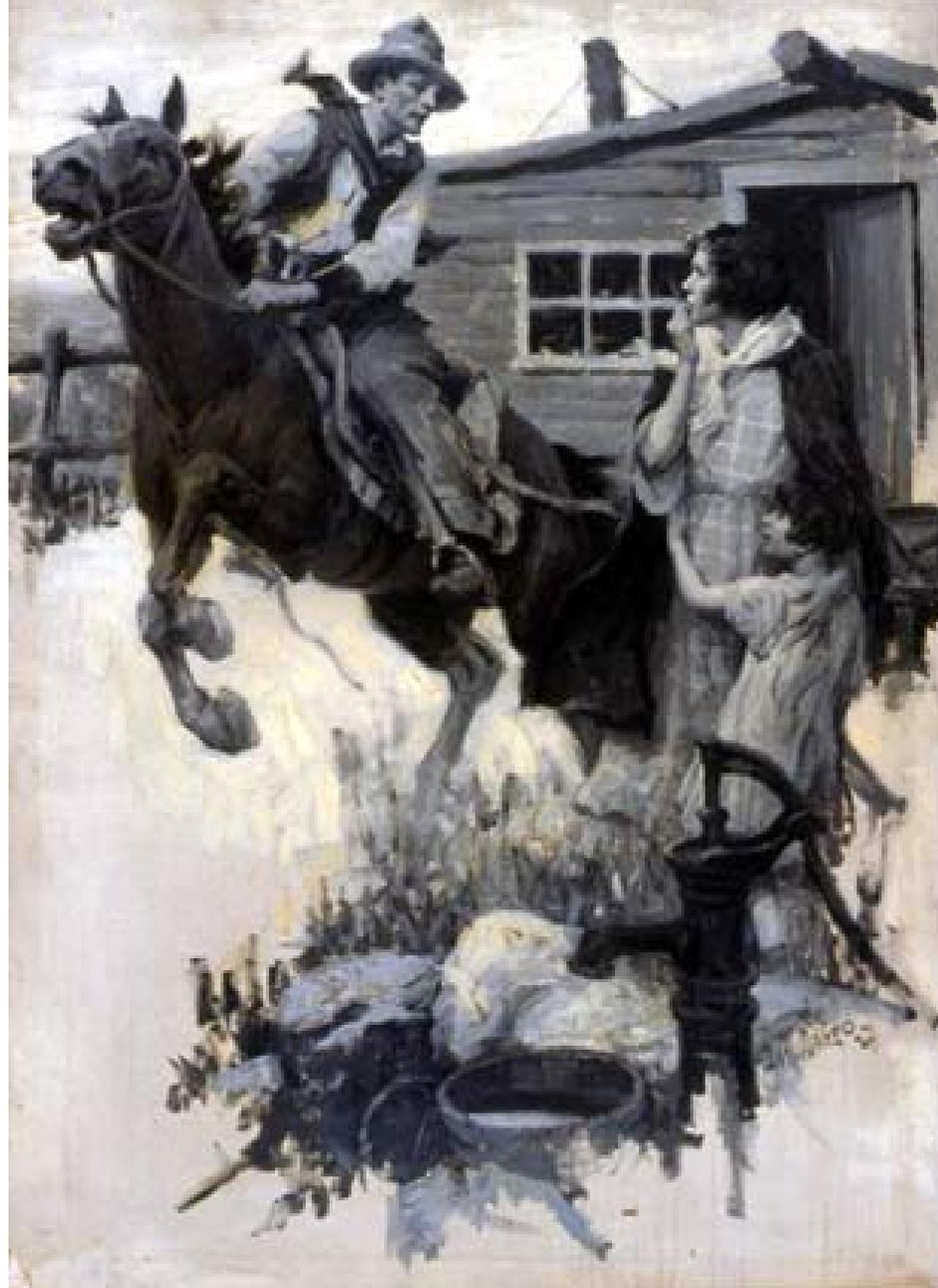


Angeles

San Diego

**Colorado
River
Aqueduct
(1932)**

California: Still the Wild West



Challenges for State-wide Monitoring

- Groundwater not regulated
 - No permitting required
 - Any landowner has correlative right to groundwater
 - Only in adjudicated basins is monitoring and extraction regulated and monitoring mandatory
 - Constant fear by pumpers of looming regulation
 - Well logs confidential
- State agencies not coordinated in groundwater program efforts statewide
- Data being collected not accessible



State Agency Groundwater Programs

- Department of Health Services
- Department of Water Resources
- Department of Toxic Substances Control
- Department of Pesticide Regulation
- State Water Resources Control Board/Regional Water Quality Control Boards



Department of Health Services

Groundwater Programs

- Implement California Safe Drinking Water Act
- Reporting from water purveyors
- Data
 - Public drinking water well locations and water quality (electronic, hard copy) ~15,000 wells
 - Well locations are not publicly available
 - Drinking Water Source Assessment Program (electronic)
 - Well data (electronic, hard copy)
 - Water system water quality monitoring plan (hard copy)
 - Groundwater recharge with recycled water monitoring programs (hard copy)



Department of Toxic Substances Control

Groundwater Programs

- Cleanup Loans and Environmental Assistance to Neighborhoods (CLEAN) Program
- State and Federal Superfund Programs (CERCLA)
- Military Base Closure, Cleanup and Reuse
- Hazardous Waste Facilities
- Voluntary Cleanup Program

All DTSC programs receive hard copy data only



Department of Pesticide Regulation

Groundwater Programs

- Identify pesticide residues in groundwater
- Identify areas vulnerable to pesticide movement in groundwater
- Identify mitigation and regulatory measures to prevent contamination of groundwater
- Education and training program on appropriate devices for use in preventing the backflow of pesticides into well water during chemigation
- Data
 - Well inventory database of pesticide analysis of groundwater
 - Pesticide use report database
 - California Vulnerability Model (CalVUL) – depth to gw, soil type, rainfall
 - Pesticide chemistry database

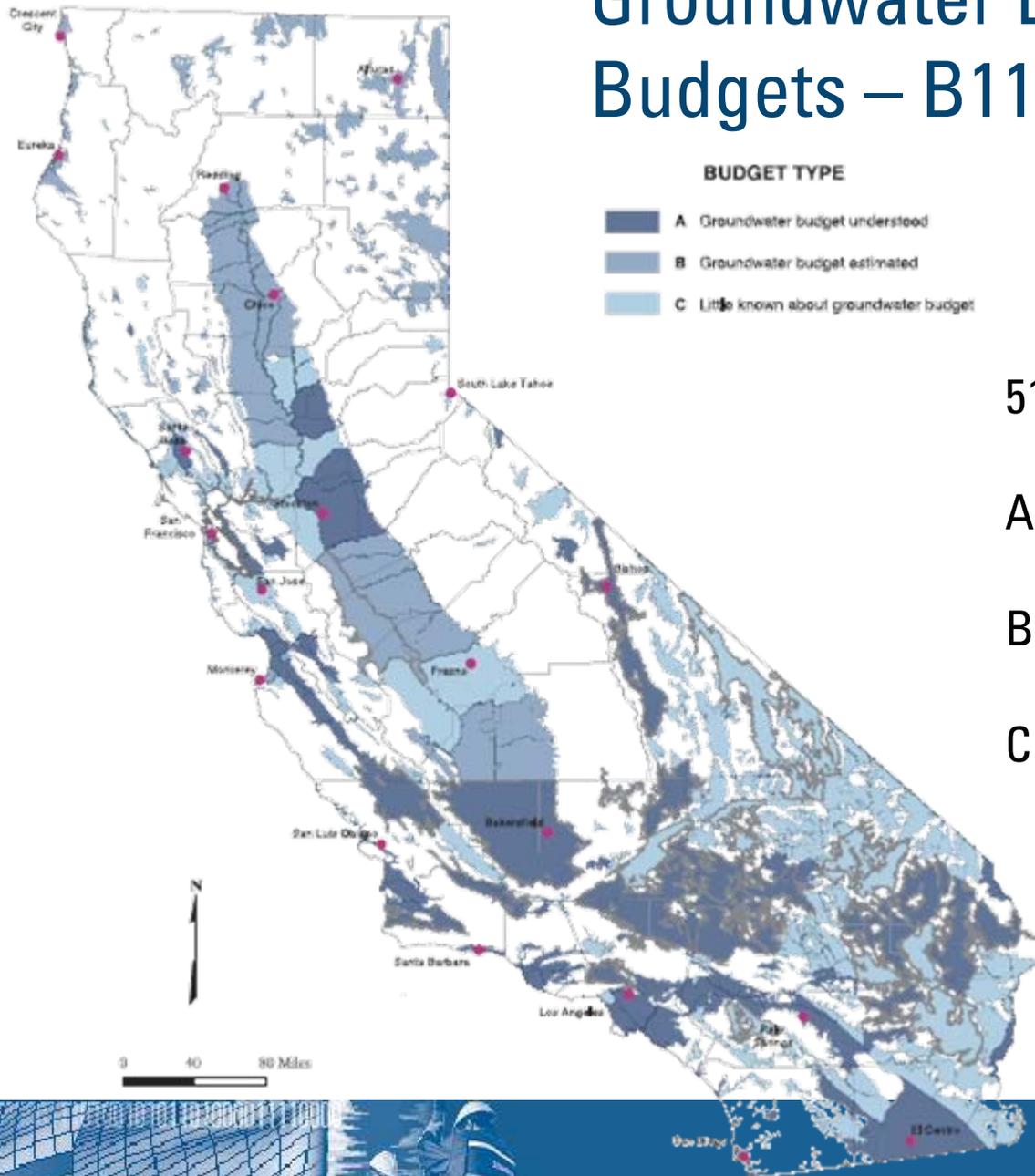


Department of Water Resources

Groundwater Programs

- California's Groundwater Bulletin 118 – summary data from existing reports
- Local and regional studies generally in cooperation with local agencies
- Land use based water demand estimate for groundwater use for California Water Plan Bulletin 160
- Statewide conjunctive use programs
- Water quality and groundwater levels
 - Over 800 wells for general minerals
 - Over 3500 wells for groundwater levels
- Water data library
 - Includes over 7500 wells with groundwater levels - DWR collected and cooperators
 - Hydrographs available on line and groundwater quality data
- Well Drillers Completion Reports – maintained confidentially under statute
 - WELMA database
- Subsidence monitoring
- Groundwater management reports under AB3030/SB1938 submitted to DWR

Groundwater Basin Budgets – B118



515 Basins

A = 84 (or 16%)

B = 135 (or 26%)

C = 296 (or 58%)



New- In Progress One-Stop-Shop

USGS Data

USGS 11370500 SACRAMENTO R A KENWICK, CA
PROVISIONAL DATA SUBJECT TO REVISION
 Available data for this site:

Available Parameters	Period of Record	Output Format	Begin date
<input type="checkbox"/> All Available Parameters for this site	<input type="checkbox"/> Graph for: <input type="text"/>	<input type="checkbox"/> Graph	2008-05-15
<input type="checkbox"/> 00003 Discharge (Mean)	1938-03-03 2007-03-15	<input type="checkbox"/> Graph for: <input type="text"/>	2007-05-15
		<input type="checkbox"/> Table	2007-05-15
		<input type="checkbox"/> Table	2007-05-15
		<input type="checkbox"/> Tab-separated	

DWR Grants

Welcome to California

DEPARTMENT OF WATER RESOURCES
 PLANNING AND LOCAL ASSISTANCE

Grants Applications Review System

Please enter your Username and Password to login into the system. **CLICK HERE** for help.

Username:

Password:

WDL

WDL

DEPARTMENT OF WATER RESOURCES
 PLANNING AND LOCAL ASSISTANCE

Local Scale Map Interface

Instructions (Step 4 of 4)
 This map provides access to individual water well data. Click on one of the red symbols on the map below to retrieve a thumbnail and tabular listing of the data for that well. If no symbols appear on the map, then no water level data are available for that area. Data may also be obtained using our [GIS/SQL/SQLC](#).

IWRIS

IWRIS Integrated Water Resources Information System

Map Legend

- Project Location
- Water Divisions
- Basin
- Agency
- Local Use
- Water Budget
- Local Use
- State Map
- Basin

FAAST

FAAST

California Environmental Protection Agency
 STATE WATER RESOURCES CONTROL BOARD
 WATER QUALITY

Financial Assistance Application Submittal Tool (FAAST)

Welcome to the Financial Assistance Application Submittal Tool.

The Division of Financial Assistance (DFA) administers the implementation of the State Water Resources Control Board's State Water Board's financial assistance programs. The DFA administers funding for construction of municipal sewage and water recycling facilities, watershed protection projects, nonpoint source pollution control projects, etc.

FAAST Login

User Name:

Password:

Forgot your password?

Do not have a FAAST user account yet?

CDEC

CDEC

California Department of Water Resources
 Division of Flood Management

Sacramento River to Lake Shasta

Be sure to reload this page for up-to-date information.

Upper Sacramento river Recent Inlettes

SACRAMENTO R

Inlettes at Delta River Study

Inlettes at Delta River Study

SACRAMENTO RIVER AT DELTA

SACRAMENTO RIVER AT DELTA

Well Logs Secure

Other Databases

Local Agency Databases

IWRIS Integrated Water Resources Information System

Map Legend

- Project Location
- Water Divisions
- Basin
- Agency
- Local Use
- Water Budget
- Local Use
- State Map
- Basin



Integrated Solution to Distributed Sources of Data

http://wdl.water.ca.gov/gw/map/region_map.cfm?type=region&rgpr=1215,385

Customize Links Free Hotmail RealPlayer Windows Marketplace Windows Media Windows

[DPLA Home](#)
[Water Data Library Home](#)
[Water Quality Data](#)
[Groundwater Data](#)
[Surface Water Data](#)
[Climatology Data](#)
[Contacts](#)

WDL

Division of Planning and Local Assistance
Department of Water Resources

901 P Street
Sacramento, CA 95814

Mailing Address:
Post Office Box 942836
Sacramento, CA
94236-0001

DEPARTMENT OF WATER RESOURCES
WATER RESOURCES
PLANNING AND LOCAL ASSISTANCE

Search
 DWR My CA

Regional-Scale Map Interface

Instructions: (Step 3 of 4)
This regional-scale map provides access to the next (and lowest) level map from which individual water well data can be retrieved. Click on the area of interest on the map below to "zoom in" to a map showing well locations. Data may also be obtained using our [text interface](#).

122.4102,2°W 122,0°W 121,8°W 121,6°W 121,4°W 121,2°W 121,0°W 120,8°W

38,0°N 38,2°N 38,4°N 38,6°N 38,8°N 39,0°N

[[State Map](#) | [Northern California](#) | [Central California](#) | [Southern California](#)]

Integrated Solution to Distributed Sources of Data



CALIFORNIA THE GOLDEN STATE

CALIFORNIA
HOMEPAGE

GOVERNOR'S
HOMEPAGE

California Department of Water Resources

Division of Flood Management

California Data Exchange Center

ACCESS POINT TO THE DEPARTMENT OF WATER RESOURCES OPERATIONAL HYDROLOGIC DATA

Autumn Change

CDEC Quick Search

- ▶ What's New
- ▶ CDEC Information
- ▶ Other Data Sources
- ▶ Comments or Suggestions?
- ▶ CDEC Support Help

CDEC Resource Directory

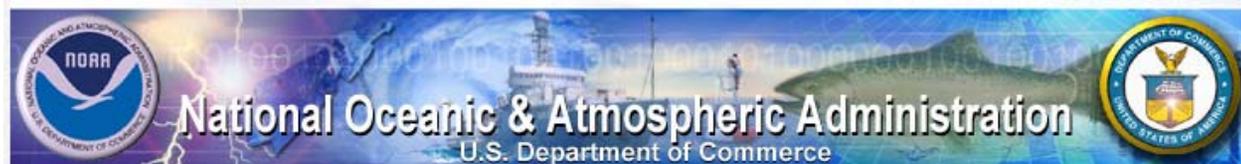
- ▶ Current River Conditions
- ▶ Snowpack Status
- ▶ River Stages/Flows
- ▶ Reservoir Data/Reports
- ▶ Satellite Images
- ▶ Station Information
- ▶ Statewide Water Conditions
- ▶ Data Query Tools
- ▶ Precipitation/Snow
- ▶ River/Tide Forecasts
- ▶ Water Supply
- ▶ Weather Forecasts
- ▶ Text Reports

[California Cooperative Snow Surveys](#) | [Division of Flood Management](#)
[Department of Water Resources](#) | [Disclaimer and Privacy Notice](#)

Mail to Webmaster@flood.water.ca.gov

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Integrated Solution to Distributed Sources of Data



Thu March 15 2007

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[Media](#)

[Disclaimer](#)

[Search](#)

[People Locator](#)

Enter Search Term(s):

[Advanced Search](#)

[Site Index](#)

Home Page Menu



[NOAA U.S. Seasonal Drought Outlook](#)

[NOAA Carbon Cycle](#)
[Greenhouse Gases](#)

Climate



NOAA Climate Program Office — Created in October 2005, the Climate Program Office incorporates the Office of Global Programs, the Arctic Research Office, the Climate Observations and Services Program, and coordinates climate activities across NOAA. The CPO focuses on developing a broader user community for climate products and services, provides a focal point for climate activities within NOAA, leads NOAA climate education and outreach activities, and coordinates international climate activities.

Products

-  **U.S. Drought Assessment** - On each Thursday, the NOAA Climate Prediction Center, together with the United States Department of Agriculture, the National Drought Mitigation Center in Lincoln, Nebraska, and the NOAA National Climatic Data Center issues a weekly drought assessment called the United States Drought Monitor. The monitor provides a consolidated depiction of national drought conditions based on a combination of drought indicators and field reports. The CPC issues the Seasonal United States Drought Outlook each month in conjunction with the Thursday release of the long-lead temperature and precipitation outlooks near the middle of the month.
-  **Climate-At-A-Glance** - Search 108 years of archived weather data for the United States.
-  **Seasonal Climate Forecast Guidance (Experimental)** — a tool for forecasters and researchers to assess the impact of climate forecasts on forecasts of temperature and precipitation.
-  **Climate Data** - Degree Days, Precipitation, Winds, Temperatures
-  **Temperature Extremes & Drought**
-  **Climatic Outlooks**
-  **Tropical Atmosphere Ocean Project (TAO)** - Real-time data from moored ocean buoys for improved detection, understanding and prediction of El Niño and La Niña

Integrated Solution to Distributed Sources of Data



Water Resources

National Water Information System: Web Interface

Data Category:

Real-time

Geographic Area:

United States

GO

USGS Real-Time Water Data for the Nation

--- Predefined displays ---

Introduction

Group table by

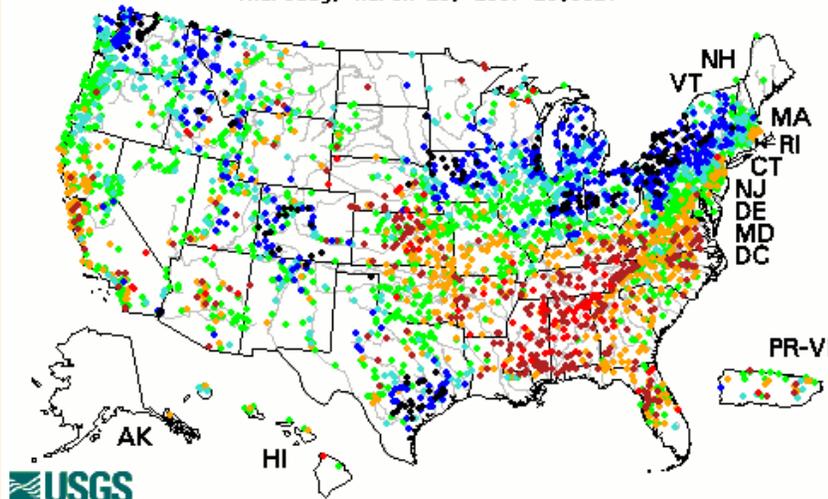
- no grouping -

Select sites by number or name

go

Daily Streamflow Conditions

Thursday, March 15, 2007 15:06ET



Select a state from the map to access real-time data

Real-time data typically are recorded at 15-60 minute intervals, stored onsite, and then transmitted to USGS offices every 1 to 4 hours, depending on the data relay technique used. Recording and transmission times may be more frequent during critical events. Data from real-time sites are relayed to USGS offices via satellite, telephone, and/or radio and are available for viewing within minutes of arrival.

All real-time data are [provisional and subject to revision](#).

[Build Table](#)

Build a custom summary table of the most recent data for one or more sites, states, or hydrologic

Integrated Solution to Distributed Sources of Data

IWRIS Integrated Water Resources Information System help | comments | logout

Layers Legend Quick Start

- Project Locator
 - ab303_2005**
 - ab303_2004
 - ab303_2003
 - ab303_2002
 - ab303_2001
 - Prop50 Planning
 - Prop50 Planning Boundary
- Water Districts
- Databases
- Models
- Land Use
- Water Budget
- Local Data
- Base Map
- Images

Scale: 1:2,792,848
Active Tool: HyperLink
Active Layer: ab303_2005

RIME Select A County

Web Based GIS Interface

help | comments | logout

IWRIS Integrated Water Resources Information System

Refresh Map

Layers Legend

Project Locator
Water Districts
Databases
Models
Land Use
Water Budget
Local Data
Base Map

County
DWR Districts
GW Basins(B118)
Hydrologic Regions
Lakes and Reservoirs
Rivers and Streams
SWRCB Regions
Township

Images

Auto Refresh
Save Image

Zoom In
Zoom Out
Zoom Full
Hyperlink
Identify
Find
Locate

IWRIS Version 1.1

0 179mi

Active Tool: Zoom In
Active Layer: County

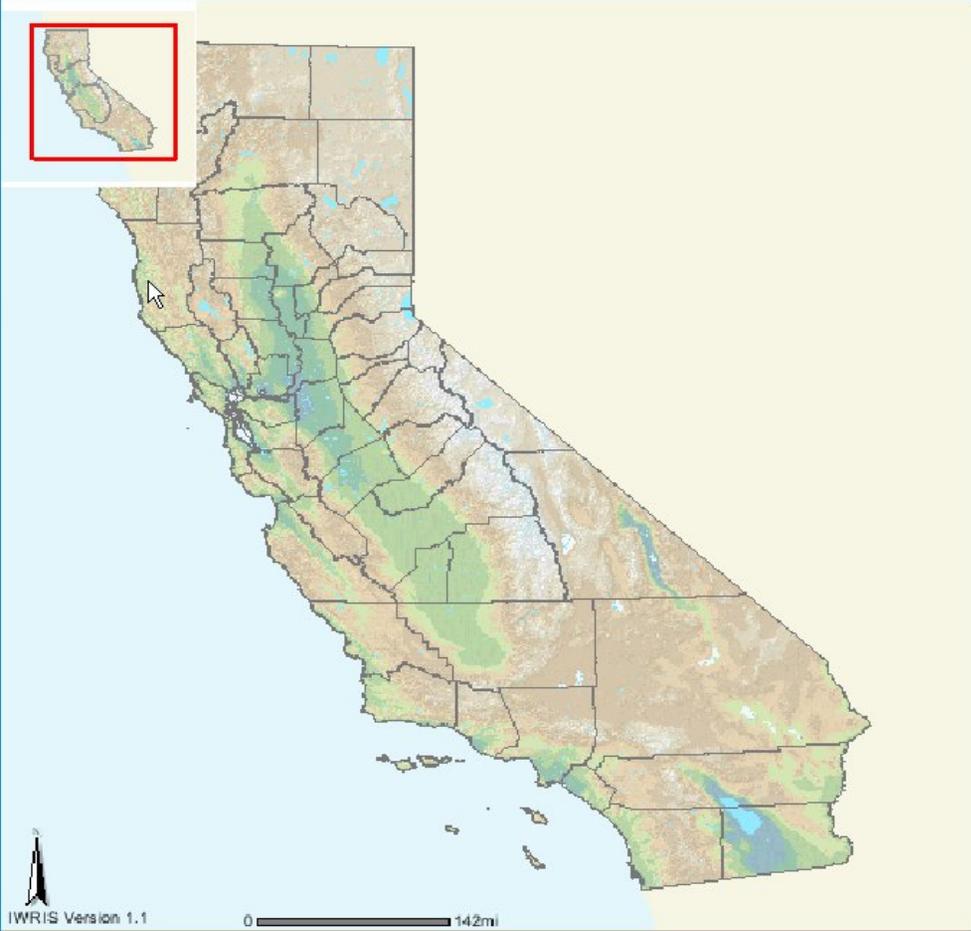
Select A County

Developed by RIME

The screenshot displays a web-based GIS interface for the Integrated Water Resources Information System (IWRIS). The main map shows the state of California divided into counties, with a red box highlighting the northern region. The interface includes a top navigation bar with links for help, comments, and logout, and a 'Refresh Map' button. On the left, there is a vertical toolbar with icons for zooming in/out, zooming full, hyperlinks, and identifying features. Below the toolbar are 'Find' and 'Locate' buttons. The right side features a 'Layers' panel with a list of data layers and a 'Legend' section. The 'Layers' list includes Project Locator, Water Districts, Databases, Models, Land Use, Water Budget, Local Data, and Base Map. The 'Legend' section shows a list of layers with checkboxes, including County (checked), DWR Districts, GW Basins(B118), Hydrologic Regions, Lakes and Reservoirs, Rivers and Streams, SWRCB Regions, and Township. Below the legend are 'Auto Refresh' (checked) and 'Save Image' buttons. At the bottom, the active tool is 'Zoom In' and the active layer is 'County'. A dropdown menu for 'Select A County' is also visible. The interface is developed by RIME.



- Zoom In
- Zoom Out
- Zoom Full
- Zoom Last
- Hyperlink
- Identify
- Pan
- Overview Map
- SQL Query
- Search
- Measure
- Buffer
- Select Box
- Select Line
- Clear
- Print
- Extract
- Find by GNIS
- Find by XY
- Set Scale
- Save Image



Layers
Legend
Quick Start

- Project Locator [-] [v] [x]
- Water Districts [-] [v] [x]
- Databases [-] [v] [x]
 - USGS Stream Flow
 - CDEC
 - Well Log Database
 - Water Data Library(WDL)
 - CIMIS
- Models [-] [v] [x]
- Land Use [-] [v] [x]
- Water Budget [-] [v] [x]
 - Yolo IGSM
 - Stony Creek IGSM
 - Central Valley IGSM
 - YC_bnd
- Local Data [-] [v] [x]
 - Local_SAWPA
 - SGA Groundwater Level
 - KRCD Facilities
 - SGA Lithology
 - SGA Groundwater Supply
 - SGA Water Quality
 - Mojave Water Districts
 - Mojave Cities Areas
 - Mojave Subareas
 - Mojave Groundwater Level
 - Mojave Groundwater Quality
 - Feather River Diversions
 - SGA Purveyors
- Base Map [-] [v] [x]
- Images [-] [v] [x]
 - Relief Map

Refresh Map Auto Refresh



Scale: 1:2,443,258
Active Layer: County

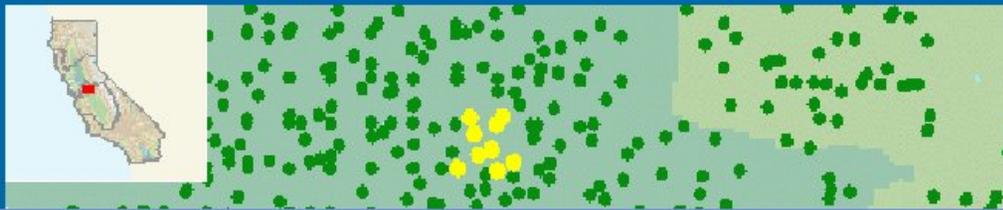
Select A County v

My Full v





- Zoom In
- Zoom Out
- Zoom Full
- Zoom Last

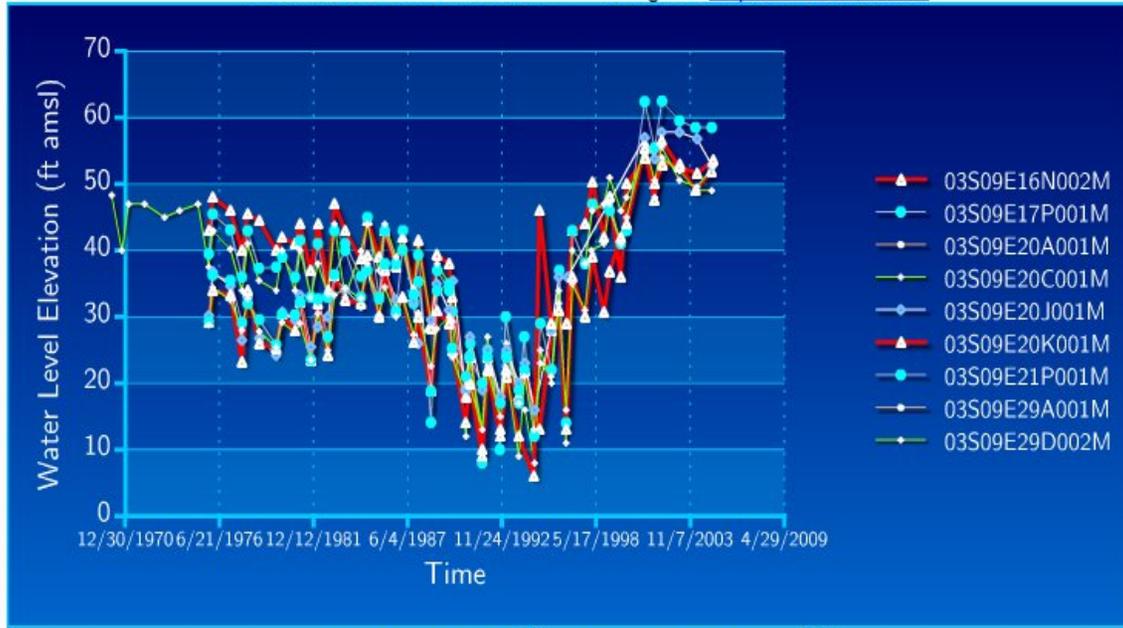


http://mis.wrime.com/misc/flash/wdl/showMultiWells.php?stList=undefined,03S09E16N002M,...

File Edit View Favorites Tools Help

Groundwater Level Data from WDL, DWR

Groundwater Surface Elevation Change to: [Depth to Groundwater](#)



Download all data View all data in Excel

Layers Legend Quick Start

Project Locator

- ab303_2005
- ab303_2004
- ab303_2003
- ab303_2002
- ab303_2001
- Prop50 Planning Boundary
- Prop50 Planning

Water Districts

- Private
- Federal
- State

Databases

- USGS Stream Flow
- CDEC
- Well Log Database
- Water Data Library(WDL)
- CIMIS

Models

Land Use

Water Budget

Local Data

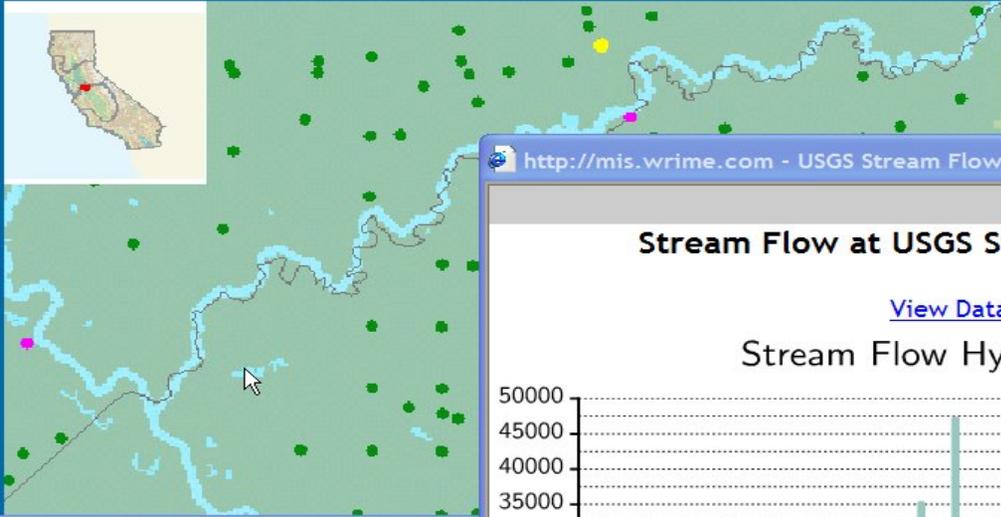
Base Map

Refresh Map Auto Refresh

Full

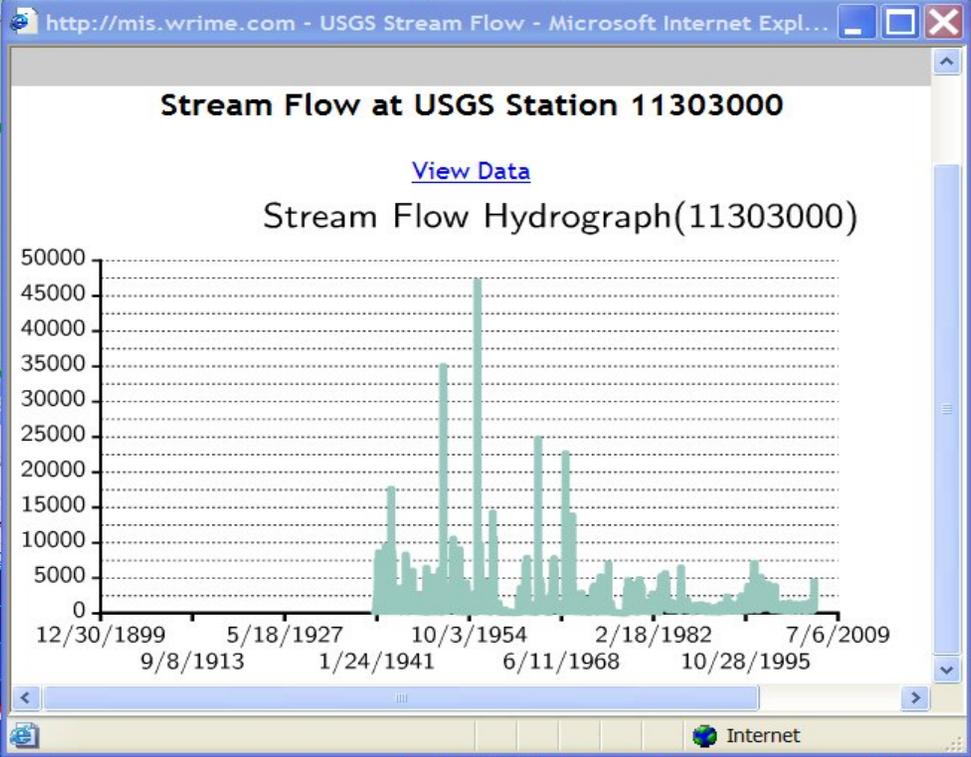


- Zoom In
- Zoom Out
- Zoom Full
- Zoom Last
- Hyperlink
- Identify
- Pan
- Overview Map
- SQL Query
- Search
- Measure
- Buffer
- Select Box



Layers Legend Quick Start

- Project Locator
- Water Districts



Groundwater Level Data from WDL
 Groundwater Surface Elevation Change to: Dep



Internet

- Base Map
- Images
- Relief Map

Auto Refresh

Refresh Map

My Full

Internet





- Zoom In
- Zoom Out
- Zoom Full
- Zoom Last
- Hyperlink
- Identify
- Pan
- Overview
- SQL Query
- Search
- Measure
- Buffer
- Select Box
- Select Line
- Clear
- Print
- Extract
- Find by GNIS
- Find by XY
- Set Scale
- Save Imag



Groundwater Basins Bulletin 118 - Microsoft Internet Explorer

File Edit View Favorites Tools Help

IWRIS Metadata

General Info
Source Info
Keywords
Coordinate System
Project Processing Record
Data Dictionary
Metadata Provided

General Information

Title: Ground Water Basins

Extent of Data: California

Layer Description: Ground Water Basins Boundaries

Coordinate System: Custom (NAD_1927_UTM_Zone_10.5N)

Format: vector digital data

Feature Geometry: Polygon

Description: This represents the groundwater basins and sub-basins as defined by the California Department of Water Resources. Groundwater basins are designated on the basis of geological and hydrological conditions, these usually being the occurrence of alluvial or unconsolidated deposits. When practical, large basins are also subdivided by political boundaries, as in the Central Valley. Basins are named and numbered per the convention of the Department of Water Resources.

Purpose: To provide information about groundwater basins for public use.

This database is not intended to be used as a land survey or representation of land for conveyance or tax purposes. The database is available to all users that may require this information.

Layers
Legend
Quick Start

- Databases [-] [v] [x]
- Grants and Loans [-] [v] [x]
- Sacramento GW Authority [-] [v] [x]
- Land Use [-] [v] [x]
- Hydrologic Models [-] [v] [x]
- Water Budget [-] [v] [x]
- Base Map [-] [v] [x]
 - County
 - Township
 - SWRCB Regions
 - Hydrologic Regions
 - Lakes and Reservoirs
 - Rivers and Streams
 - DWR Districts
 - GW Basins(B118)
- Water Districts [-] [v] [x]
 - Federal
 - Local_SAWPA
 - Private
 - State
- Images [-] [v] [x]
 - Relief Map

Refresh Map Auto Refresh

ACWA

State/Regional Water Boards Groundwater Programs

- Regulatory compliance monitoring
 - Land disposal program
 - Spills, leaks, investigations, and cleanup (SLIC) program (reimbursed cleanup program)
 - Department of Defense (DOD) program
 - Underground Storage Tank (UST) program
- Prior to 2005, data for the land disposal, SLIC, and DOD programs are hard copy in reports, with the exception of location information – since January 2005, all data are required to be submitted electronically
- Data for UST Program is stored and accessed in GeoTracker

GeoTracker

Public wells have been temporarily removed from public access.



GeoTracker

Your link to environmental data for regulated facilities in California

TOOLS	INFORMATION
Site/Facility Finder	About GeoTracker
Well Concentrations	Hot News
MTBE District Report	Drinking Water Quality Reports
Case Finder	Subsurface Investigations
MTBE/Case Reports	Electronic Submittal of Information
Public Reports	Data Download
GeoTracker Demo	
GeoTracker	

[Contact Us](#) [SWRCB](#) [GeoTracker](#)

Map Address:
Address:
City:
Zip:

Regional Map:
County:



GeoTracker



Address Search

Leaving a field blank matches any entry for that field.
You may also use wildcards (*).

Business Name:

Street Number:

Street Name:

City:

County:

Global ID:

Search for All Sites

Search for LUFT Sites

Search for SLIC Sites

Search for Land Disposal Sites

Search for DOD (Non-UST) Sites

Search for Wells

Search for UST Sites



GeoTracker

[BACK TO SEARCH](#) | [GEOTRACKER HOME](#)

Site Search Results		1384 records found			Page 1 of 47
SITE NAME	ADDRESS	CITY	COUNTY	SITE TYPE	STATUS
(FORMER) SACRAMENTO JET	5868 FLIGHTLINE CIRCLE	SACRAMENTO	SACRAMENTO	LUFT	OPEN REPORT
1000 DEL PASO BOULEVARD	1000 DEL PASO BLVD	SACRAMENTO	SACRAMENTO	LUFT	OPEN REPORT SHOW ON MAP
14TH AVENUE LANDFILL	14TH AVE & POWER INN ROAD	SACRAMENTO	SACRAMENTO	LANDFILL	OPEN REPORT
14TH AVENUE LANDFILL - EAST PIT	14TH AVE & POWER INN RD, E. OF RR TRACKS	SACRAMENTO	SACRAMENTO	SLIC	OPEN REPORT
14TH AVENUE LANDFILL - WEST PIT	14TH AVE & POWER INN RD, W. OF RR TRACKS	SACRAMENTO	SACRAMENTO	SLIC	OPEN REPORT
15TH & L INVESTORS	1501 L STREET	SACRAMENTO	SACRAMENTO	LUFT	CLOSED REPORT SHOW ON MAP
1622 K STREET	1622 K STREET	SACRAMENTO	SACRAMENTO	LUFT	OPEN REPORT SHOW ON MAP
28TH STREET LANDFILL	28TH & A STREET	SACRAMENTO	SACRAMENTO	LANDFILL	OPEN REPORT
300 CAPITOL MALL	300 CAPITOL MALL	SACRAMENTO	SACRAMENTO	UST	N/A REPORT SHOW ON MAP
3400 STOCKTON	3400 & 3406 STOCKTON BOULEVARD	SACRAMENTO	SACRAMENTO	LUFT	OPEN REPORT
49ER TRUCK STOP	2828 EL CENTRO RD	SACRAMENTO	SACRAMENTO	LUFT	OPEN REPORT SHOW ON MAP
7- UP BOTTLING COMPANY	2670 LAND AVE	SACRAMENTO	SACRAMENTO	LUFT	OPEN REPORT SHOW ON MAP
7-11 STORE	6591 WYNDHAM DR	SACRAMENTO	SACRAMENTO	LUFT	CLOSED REPORT SHOW ON MAP
7-11 STORE #23265 "GITGO"	2454 NORTHGATE BLVD	SACRAMENTO	SACRAMENTO	LUFT	CLOSED REPORT SHOW ON MAP
7-ELEVEN #18185-C2235	5791 BROADWAY	SACRAMENTO	SACRAMENTO	UST	N/A REPORT SHOW ON MAP
7-ELEVEN #23233	8499 GERBER ROAD	SACRAMENTO	SACRAMENTO	LUFT	CLOSED REPORT SHOW ON MAP
7-ELEVEN #23233	8499 GERBER RD	SACRAMENTO	SACRAMENTO	UST	N/A REPORT SHOW ON MAP
7-ELEVEN #23265	2450 NORTHGATE BLVD	SACRAMENTO	SACRAMENTO	UST	N/A REPORT SHOW ON MAP
7-ELEVEN #24815	6170 AUBURN BLVD	SACRAMENTO	SACRAMENTO	UST	N/A REPORT SHOW ON MAP
7-ELEVEN #33315	5501 AUBURN BLVD	SACRAMENTO	SACRAMENTO	LUFT	OPEN REPORT SHOW ON MAP
7-ELEVEN STORE #23265	2450 NORTHGATE BOULEVARD	SACRAMENTO	SACRAMENTO	LUFT	OPEN REPORT
7-UP BOTTLING	2929 ACADEMY WAY (AKA: 2939)	SACRAMENTO	SACRAMENTO	LUFT	CLOSED REPORT SHOW ON MAP
A J BUMPS	8055_FREEMPORT	SACRAMENTO	SACRAMENTO	WELL	N/A VIEW PWS WELLS
A&A BLDG SUPPLY	6700 FOLSOM BLVD	SACRAMENTO	SACRAMENTO	LUFT	OPEN REPORT SHOW ON MAP
A-1 MARKET	6636 SUNNYSLOPE DR	SACRAMENTO	SACRAMENTO	LUFT	CLOSED REPORT SHOW ON MAP
A-1 PAINTERS, DECORATORS & WALLPAPER HANGERS	2816 "S" STREET	SACRAMENTO	SACRAMENTO	SLIC	OPEN REPORT SHOW ON MAP
A-1 PLATING CO	2170 ACOMA ST	SACRAMENTO	SACRAMENTO	SLIC	OPEN REPORT SHOW ON MAP
A-1 TRANSMISSION	5889 STOCKTON BLVD	SACRAMENTO	SACRAMENTO	LUFT	CLOSED REPORT SHOW ON MAP
A. TEICHERT & SON	8611 KIEFER BLVD	SACRAMENTO	SACRAMENTO	LUFT	CLOSED REPORT SHOW ON MAP
ABA DABA PARTY RENTALS	1547 FULTON AVE	SACRAMENTO	SACRAMENTO	LUFT	CLOSED REPORT SHOW ON MAP

Jump to page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#)

Next 30



GeoTracker

GeoTracker [? help](#)

ZoomIn 2X ZoomOut 2X Pan Identify LUFT Sites

Show All sites within Any of public wells.

Identify Results: T0606791938-1622 K STREET

Layers

- LUFT Sites
- UST Sites
- Public Wells
- Highways
- Major Roads
- Minor Roads
- USGS Quads
- Surface Water
- SLIC Sites
- Watersheds
- GW Basins
- Vulnerability
- GAMA Sites

Map Size: 1X

Redraw

Street:

City: Zip:

600 feet

GeoTracker

REPORT

1622 K STREET (SACRAMENTO)

1622 K STREET
SACRAMENTO , CA 95814

CASE STATUS: CLOSED

[SHOW THIS SITE ON MAP](#)

[RETURN TO REPORT MAIN MENU](#)

LOCAL AGENCY (LEAD AGENCY) - CASE #: E573

SACRAMENTO COUNTY LOP - (SJE)

REGIONAL BOARD - CASE #: 341371

CENTRAL VALLEY RWQCB (REGION 5S) - (VJF)

CONTACT: VERA FISCHER - (916) 464-3291

RB RECORD FILE #:

CHOOSE A REPORT TO VIEW

SITE INFO:

- [REGULATORY HISTORY](#)
- [LOCATIONAL INFORMATION](#)
- [ANALYTICAL DATA](#)
- ELECTRONIC ANALYTICAL DATA
- DEPTH TO WATER INFORMATION
- [RISK MANAGEMENT](#)
- [LAND USE CONTROLS](#)

LEAK INFO:

- [DETAILED RELEASE INFORMATION](#)
- [REMEDATION ON SITE](#)

ADDITIONAL INFO:

- 0 FIELD POINTS FOR THIS SITE
- [2 PUBLIC WATER WELL\(S\) ESTIMATED TO BE NEARBY THIS SITE](#)

ELECTRONIC SUBMITTALS:

- ANALYTICAL DATA (NONE AVAILABLE)
- LOCATION DATA (NONE AVAILABLE)
- ELEVATION DATA (NONE AVAILABLE)
- DEPTH TO WATER DATA (NONE AVAILABLE)
- [GEO MAP DATA](#)
- [GEO REPORT / SITE DOCUMENTS](#)
- GEO BORE DATA (NONE AVAILABLE)

CUF REIMBURSEMENT AMOUNT:

\$0

[Geotracker Home](#) | [Site/Facility Finder](#) | [Case Finder](#) | [MTBE/Case Reports](#)

State/Regional Water Boards

Groundwater Programs

- Groundwater Ambient Monitoring and Assessment Program (GAMA)
 - California Aquifer Susceptibility (precursor)
 - Collaboration with Lawrence Livermore National Lab & USGS
 - Age dating and low-level VOCs
 - 1000 wells sampled
 - Domestic Well Sampling
 - Total and fecal coliform, general minerals, organics and inorganics
 - Over 900 wells sampled
 - AB599 (Statewide Comprehensive) Groundwater Quality Monitoring Act of 2001



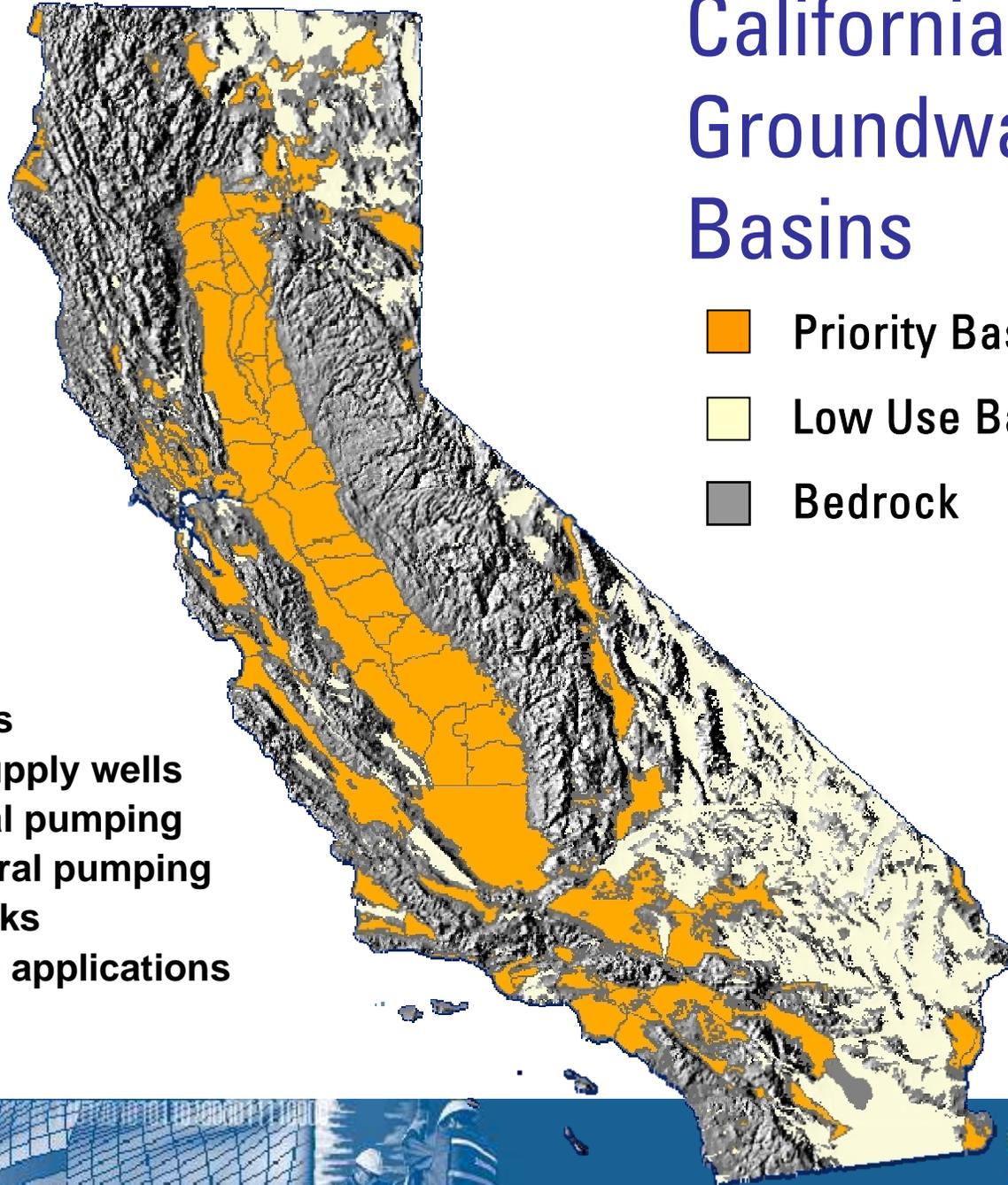
AB 599 Groundwater Quality Monitoring Act Of 2001

- Comprehensive, \$50M statewide program to monitor and assess ground-water quality in California
- Collaborative effort between stakeholders at all levels: well owners, local agencies, state and federal government
- Monitoring program described in USGS WRI 03-4166
- U.S. Geological Survey under Contract to State Water Resources Control Board to implement
- USGS Leadership Team: Kenneth Belitz *SD*, Barbara Dawson *SAC*, Justin Kulongoski *SD*, Miranda Fram *SAC*, U.S.

California's Groundwater Basins

-  Priority Basins (116)
-  Low Use Basins (356)
-  Bedrock

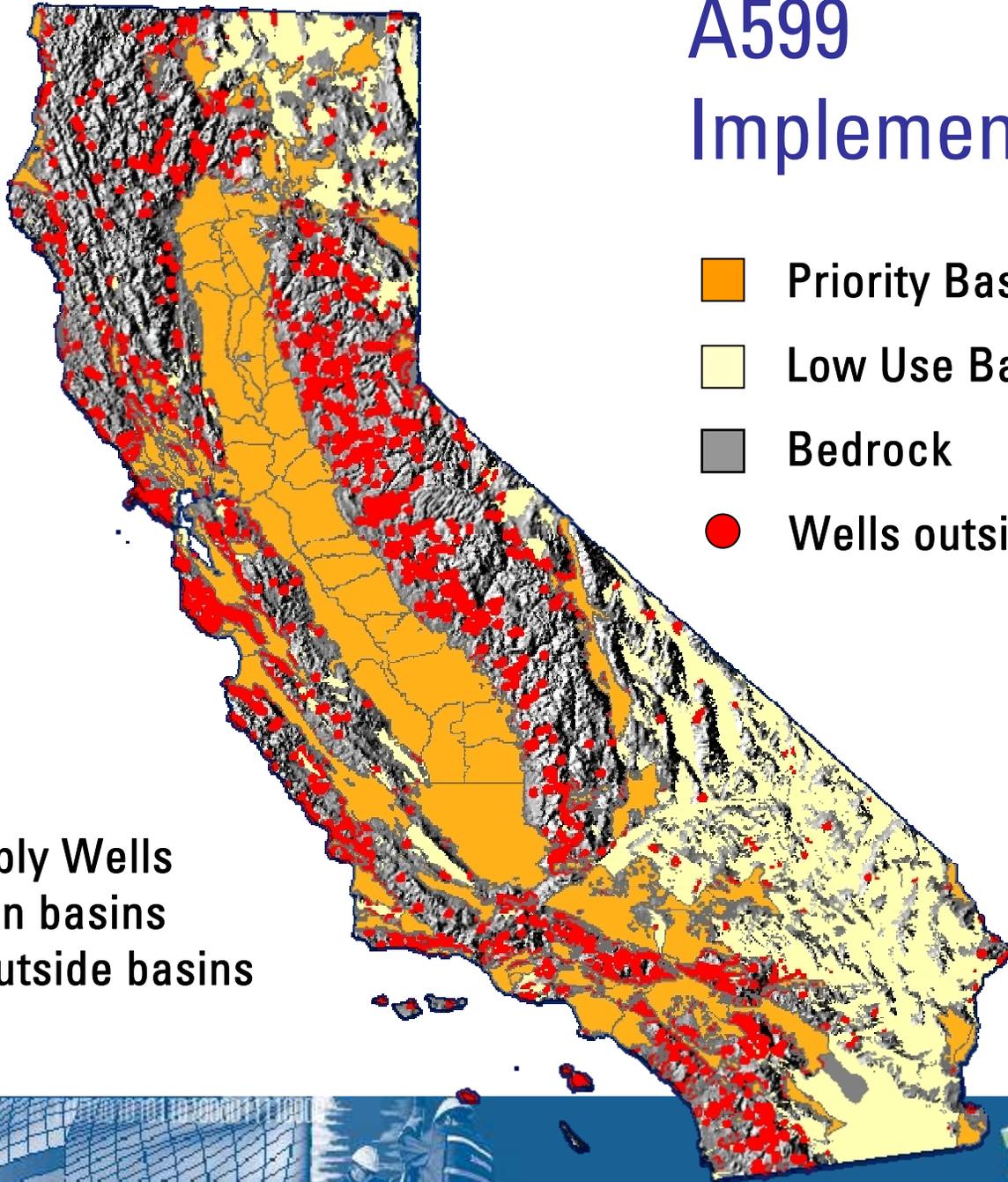
Priority basins
95% public supply wells
99% municipal pumping
90% agricultural pumping
90% leaky tanks
90% pesticide applications
60% area



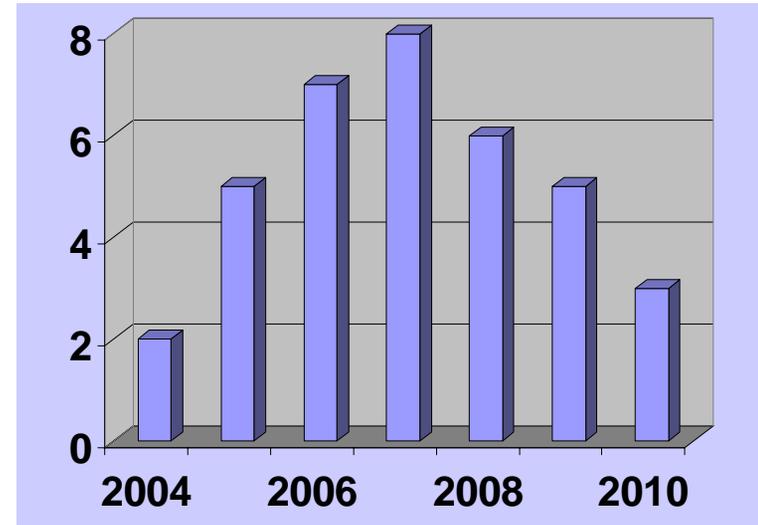
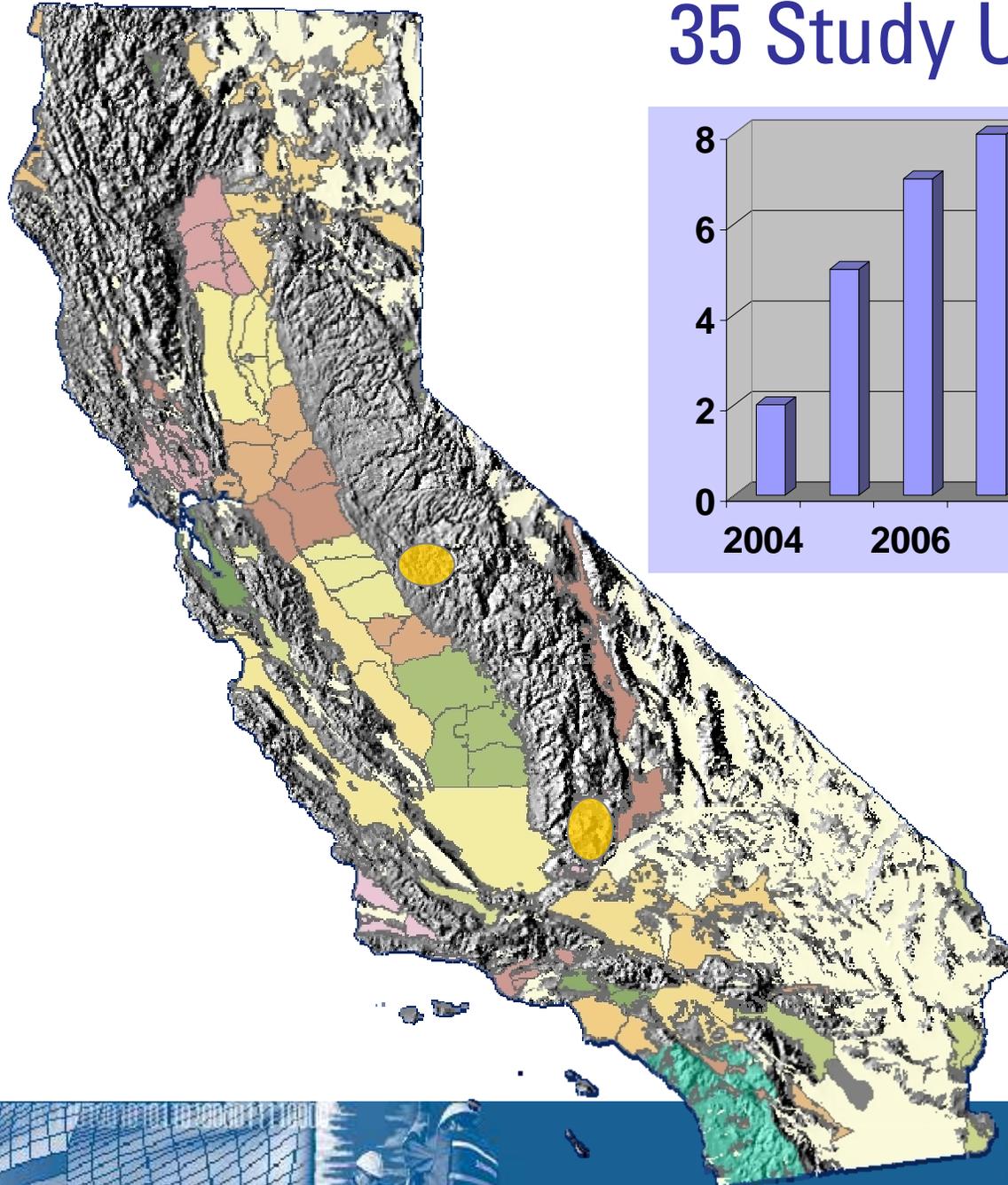
A599 Implementation

-  Priority Basins (116)
-  Low Use Basins (356)
-  Bedrock
-  Wells outside basins

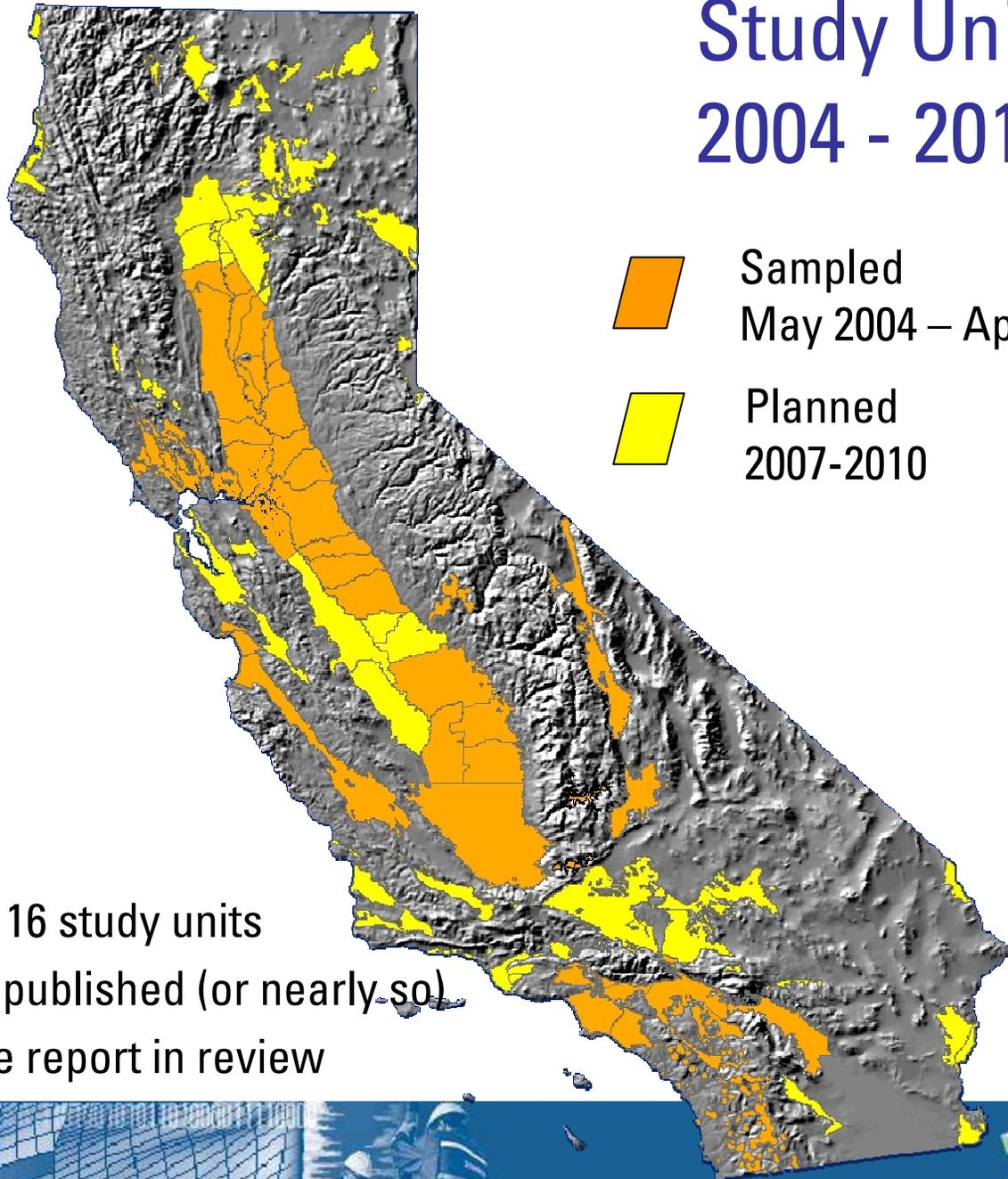
Public Supply Wells
13,000 are in basins
3,000 are outside basins



35 Study Units



Study Units 2004 - 2012



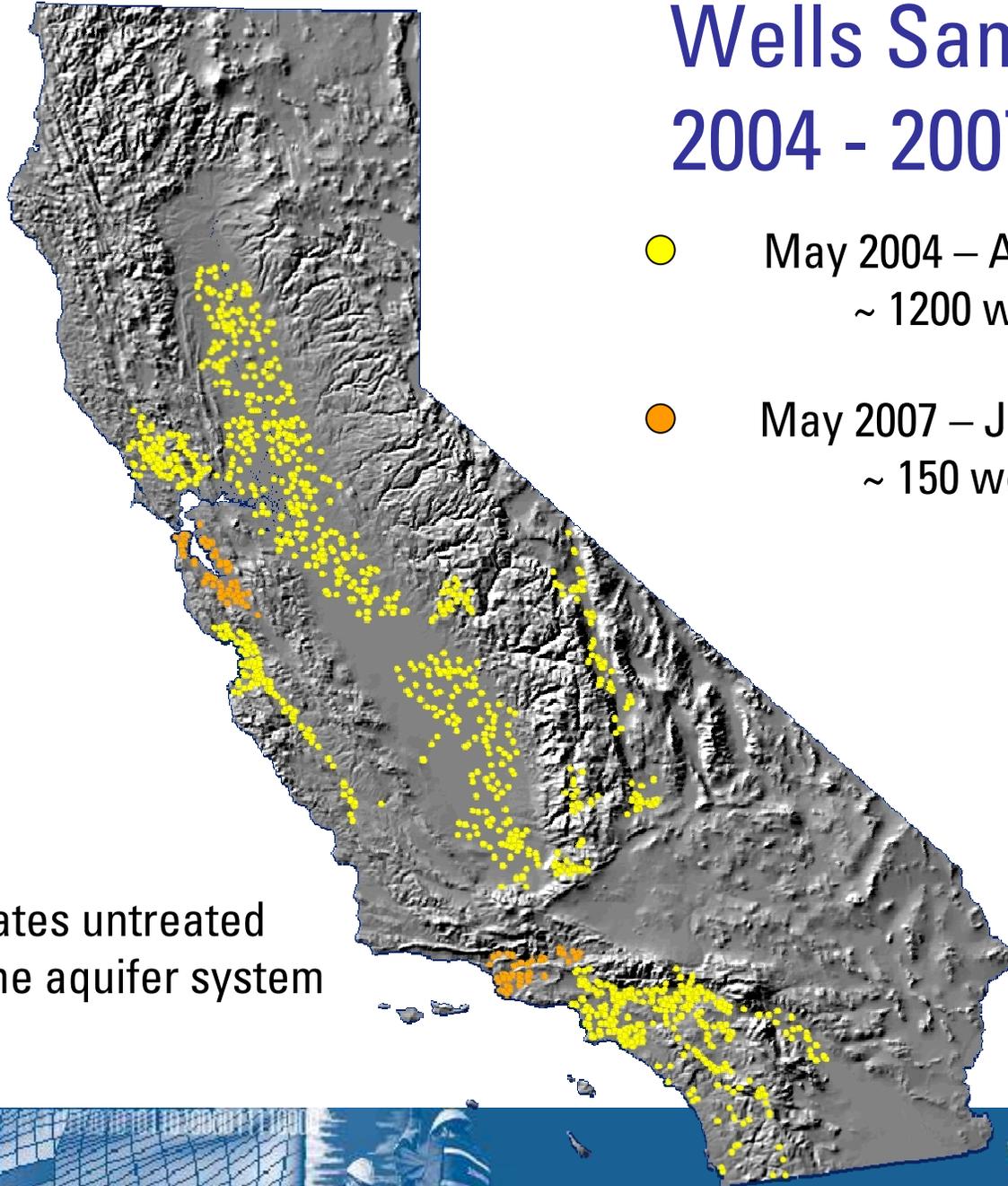
-  Sampled
May 2004 – April 2007
-  Planned
2007-2010

Data collected in 16 study units
Five data reports published (or nearly so)
One interpretative report in review

Wells Sampled 2004 - 2007

- May 2004 – April 2007
~ 1200 wells
- May 2007 – June 2007
~ 150 wells

AB599 evaluates untreated
water from the aquifer system



Products: AB599 Data

- Randomized, spatially distributed sampling network
 - Allows for unbiased assessment at the basin-scale
 - Allows for comparison between basins
 - Provides a basis for regional and statewide synthesis
- Low-level detection limits and emerging contaminants
 - VOCs, pesticides, pharmaceuticals, perchlorate, Crvi , ...
 - Identify compounds that might otherwise be missed
 - Early awareness for constituents of concern
- Environmental tracers
 - Stable isotopes, tritium, noble gases, anthropogenic compounds
 - Basis for assessing connection between sources of compounds and occurrence in public supply wells



Products: AB599 Assessments

● Status

- AB599 will provide assessments of the quality of untreated groundwater at the basin, regional, and state-scales

● Trends

- AB599 will provide an assessment of changes in water quality with time
 - 10% of wells, every three years
 - Basic network, every ten years

● Understanding

- Natural and human factors affecting water quality



AB599 History

- NRDC Report - 2001
- AB599 Bill - 2001
- ITF & PAC meetings – 2002/3
- Report/Recommendations – 2003
 - Worth reviewing
- Funded by Water Bond -2003
- Implementation – 2004/present
 - SWRCB - USGS

CALIFORNIA'S CONTAMINATED GROUNDWATER

Is the State Minding the Store?

Written by

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NATURAL RESOURCES DEFENSE COUNCIL
April 2001

AB 599 Groundwater Quality Monitoring Act Of 2001 - Objectives

- Assess each ground-water basin in the state through direct and other statistically reliable sampling approaches
- Integrate existing monitoring programs and acquire new data as needed
- Identifying measures to increase coordination among state and federal agencies that collect information regarding groundwater contamination in the state
- Identifying the means by which to make monitoring information available to the public
- Prioritize ground-water basins that provide drinking water



Concluding Remarks

- When it comes to groundwater – CA Still the Wild West
- For all the groundwater extracted, not much discharge information
- For all the water quality data being generated in the state
 - Still a lot not getting captured into electronic readily accessible databases
 - Still a lot of data not being utilized and integrated into statewide understanding
- AB599 implementation has it challenges
 - Most, but not all stakeholders are cooperating
 - Stakeholder concerns
 - Low reporting levels may lead to additional regulation
 - Low reporting levels may lead to litigation
 - Lack of state interagency interaction and involvement

