

**California Water Plan**  
**Regional Outreach Workshop:**  
***North Coast Hydrologic Region***

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*Northern District*  
*Chief, Land and Water Use Section*

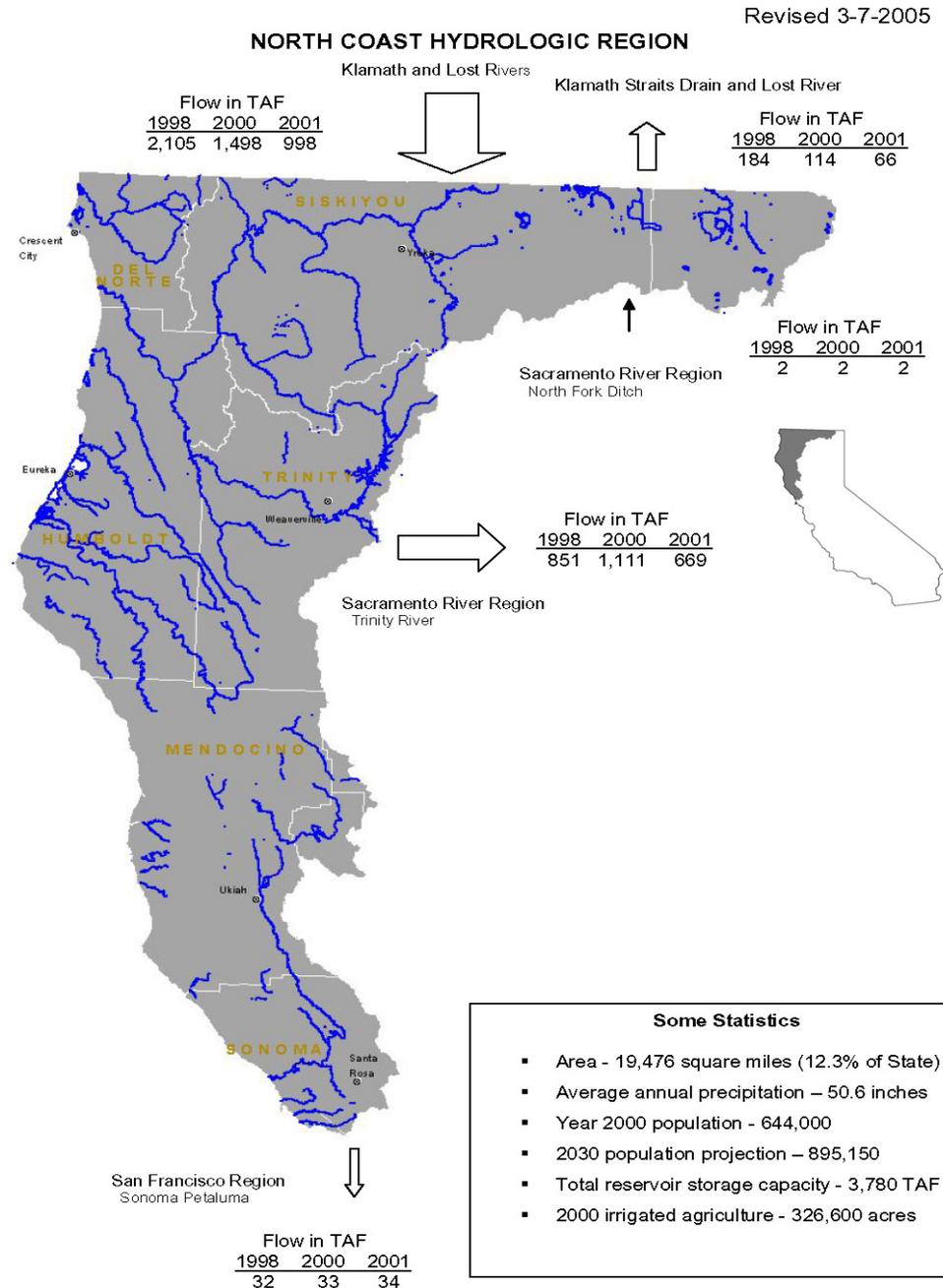
**Fortuna**  
**October 11, 2007**

**Area: 19,500 sq. miles  
( 12.3 % of State)**

**Avg. Annual  
Precipitation: 50.6 inches  
(State Avg. 23 inches)**

**Y2K Population: 644,000  
( 0.02% of State)**

**Y2K Irrigated Crop Area:  
327,000 acres ( 0.03% of  
State)**



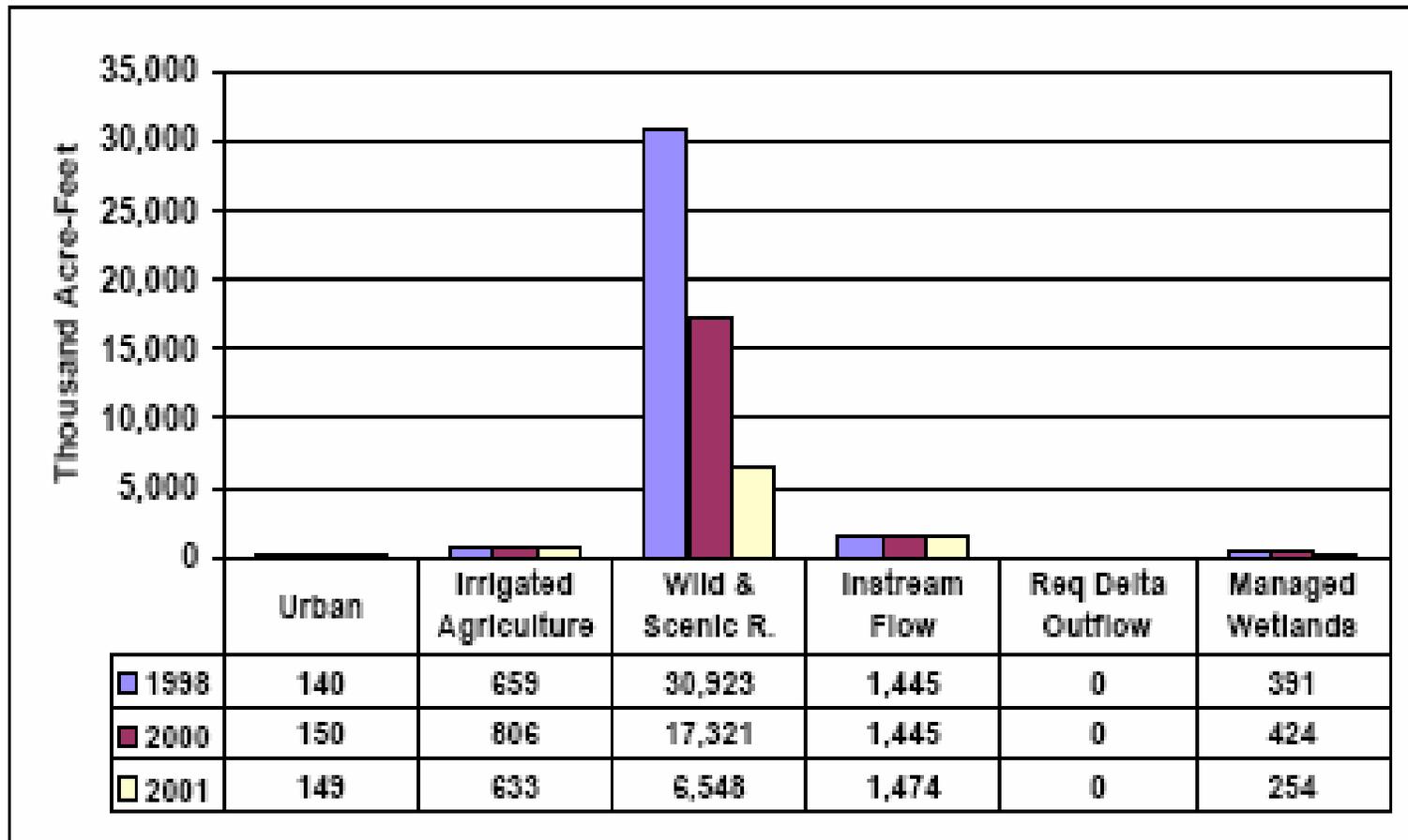


## North Coast Hydrologic Region

**Water Entering – Water Leaving = Change in Storage**

	<b>1998</b> <b>(154%)</b>	<b>2000</b> <b>(98%)</b>	<b>2001</b> <b>(60%)</b>
<b>Water Entering the Region</b>	<b>81 MAF</b>	<b>52 MAF</b>	<b>32 MAF</b>
<b>Water Leaving the Region</b>	<b>80 MAF</b>	<b>52 MAF</b>	<b>33 MAF</b>
<b>Storage Changes in the Region</b>	<b>1 MAF</b>	<b>0 MAF</b>	<b>-1 MAF</b>

### North Coast Region Applied Water Uses For Water Years 1998, 2000, 2001



**1998**  
**(154%)**

**33.5 TAF**

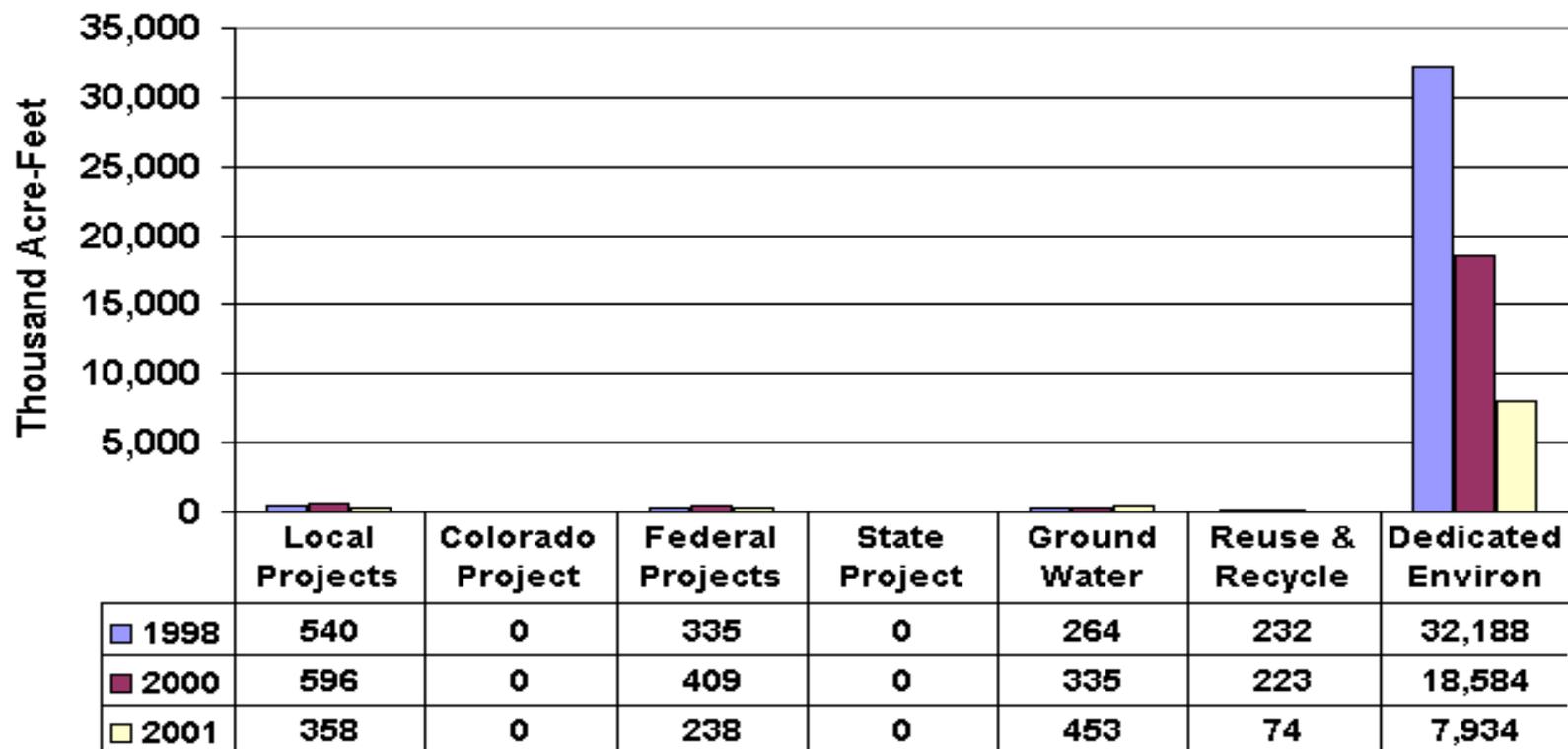
**2000**  
**(98%)**

**20 TAF**

**2001**  
**(60%)**

**9 TAF**

# North Coast Region Dedicated Water Supplies for Water Years 1998, 2000, 2001



**1998**  
**(154%)**

**33.5 TAF**

**2000**  
**(98%)**

**20 TAF**

**2001**  
**(60%)**

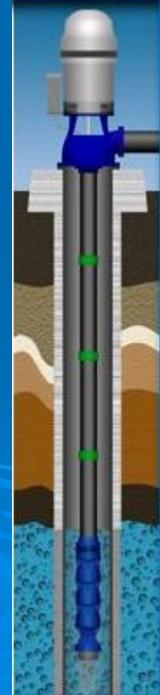
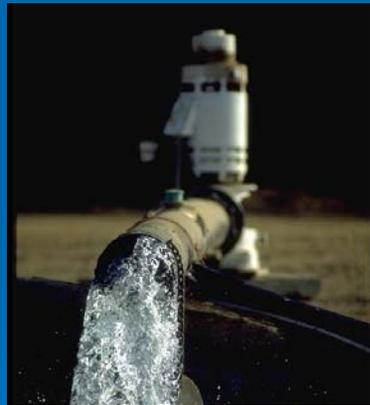
**9 TAF**

# Groundwater Development Statistics

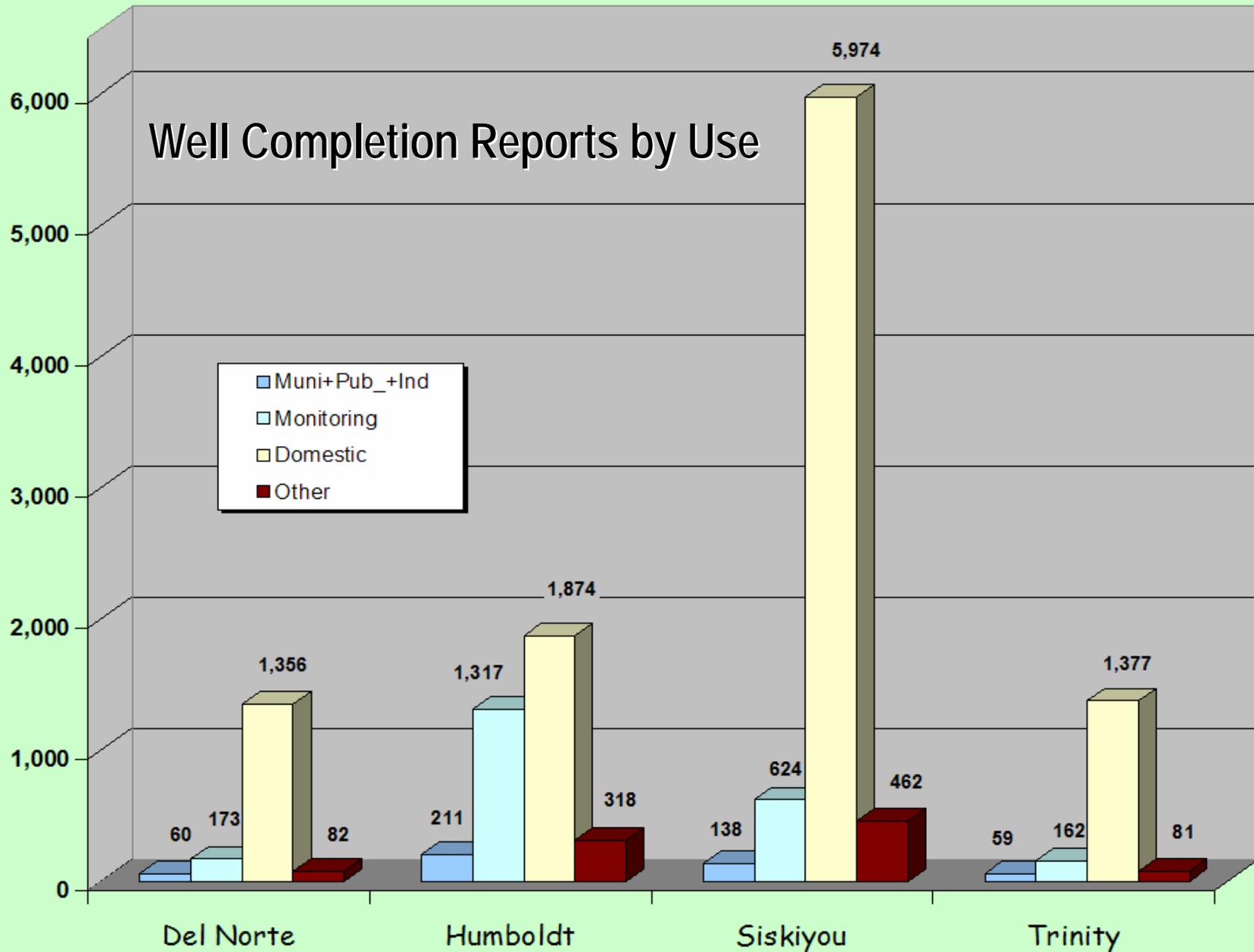


# Number of North Coast Well Completion Reports by Use

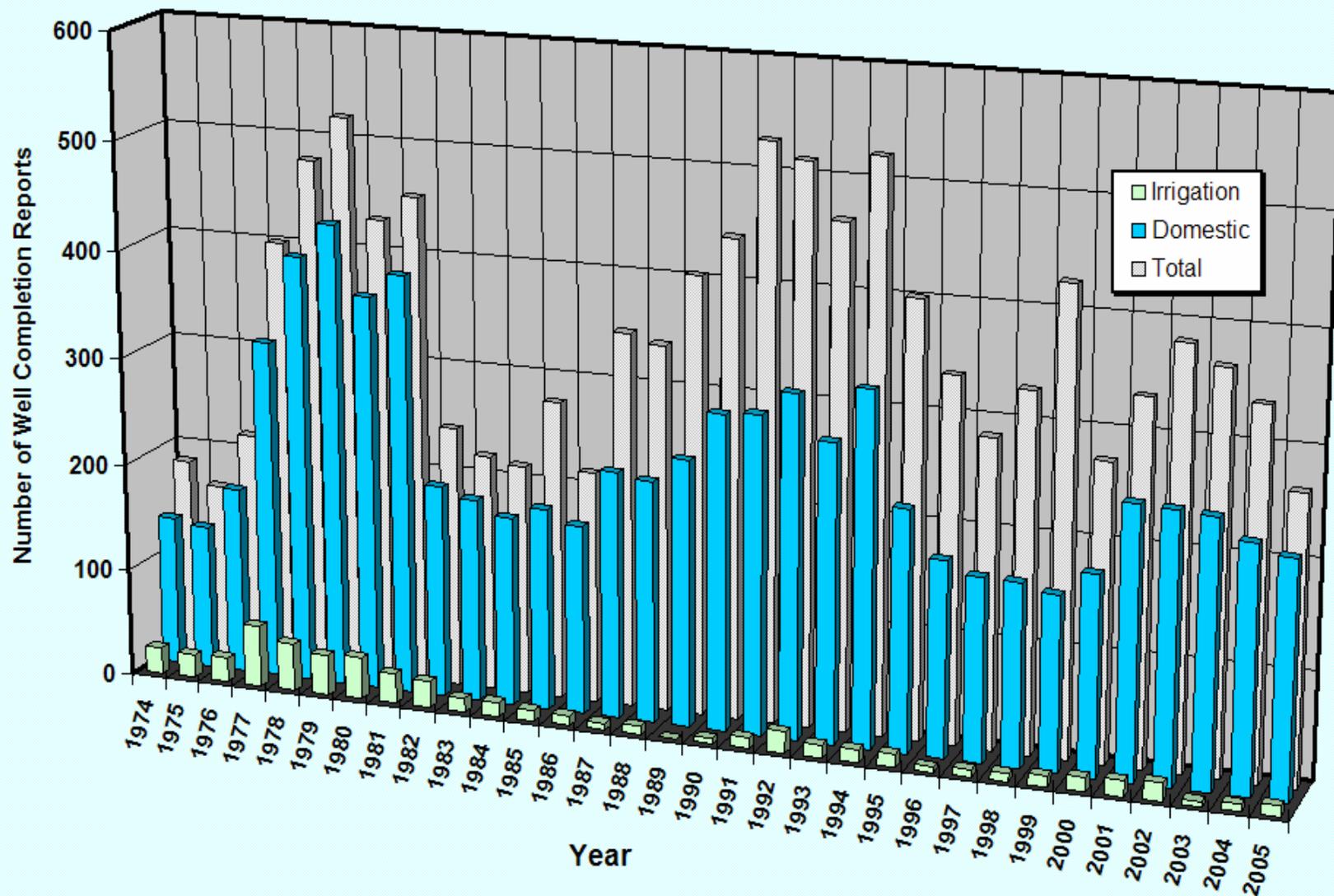
<u>Well Use</u>	Del Norte	Humboldt	Siskiyou	Trinity	Totals
Domestic	1,356	1,874	5,974	1,377	10,581
Irrigation	74	193	703	21	991
Municipal, Industrial & Public	60	211	138	59	468
Monitoring	173	1,317	624	162	2,276
Other	82	318	462	81	943
<b>Totals:</b>	<b>1,745</b>	<b>3,913</b>	<b>7,901</b>	<b>1,700</b>	<b>15,259</b>



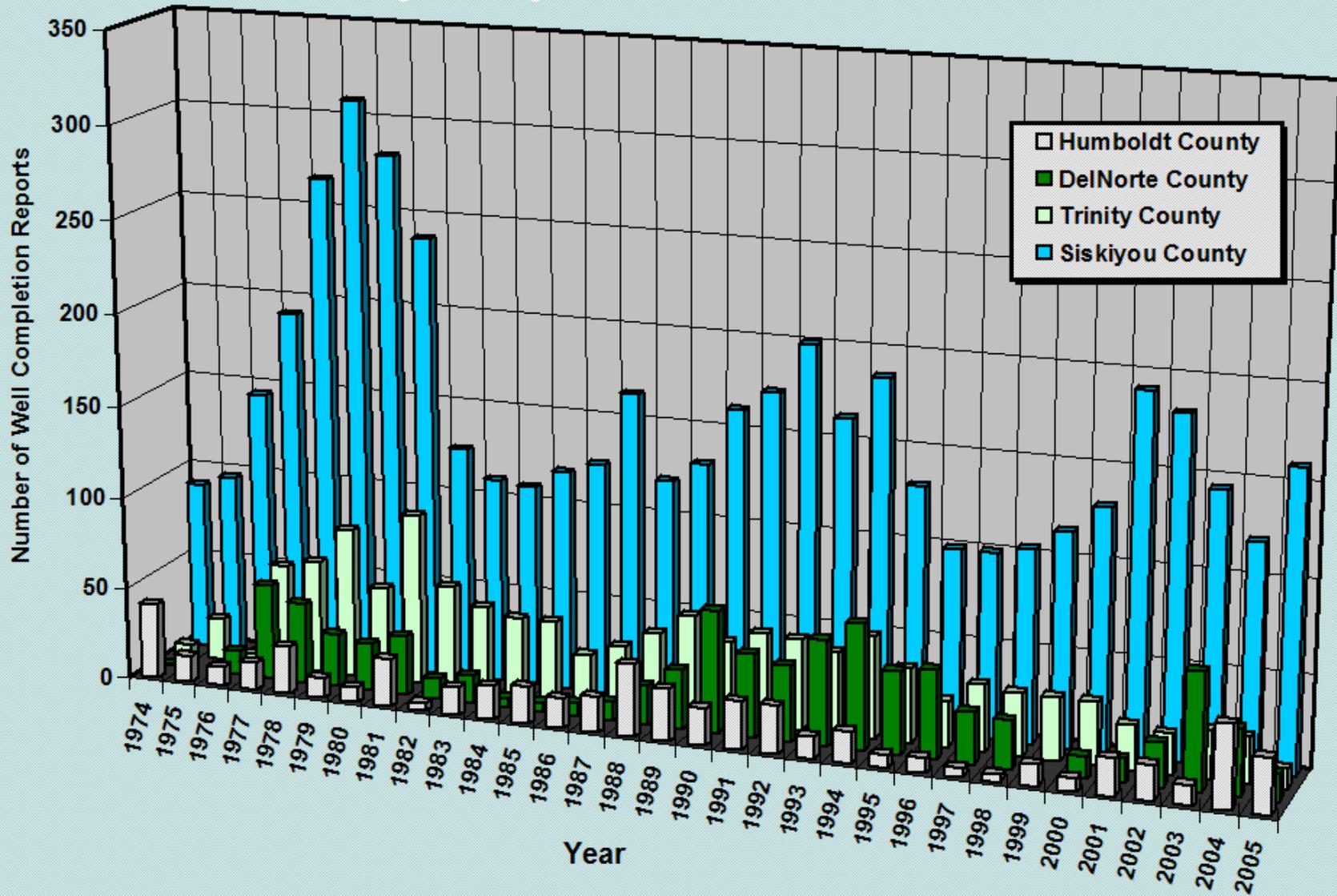
## Well Completion Reports by Use



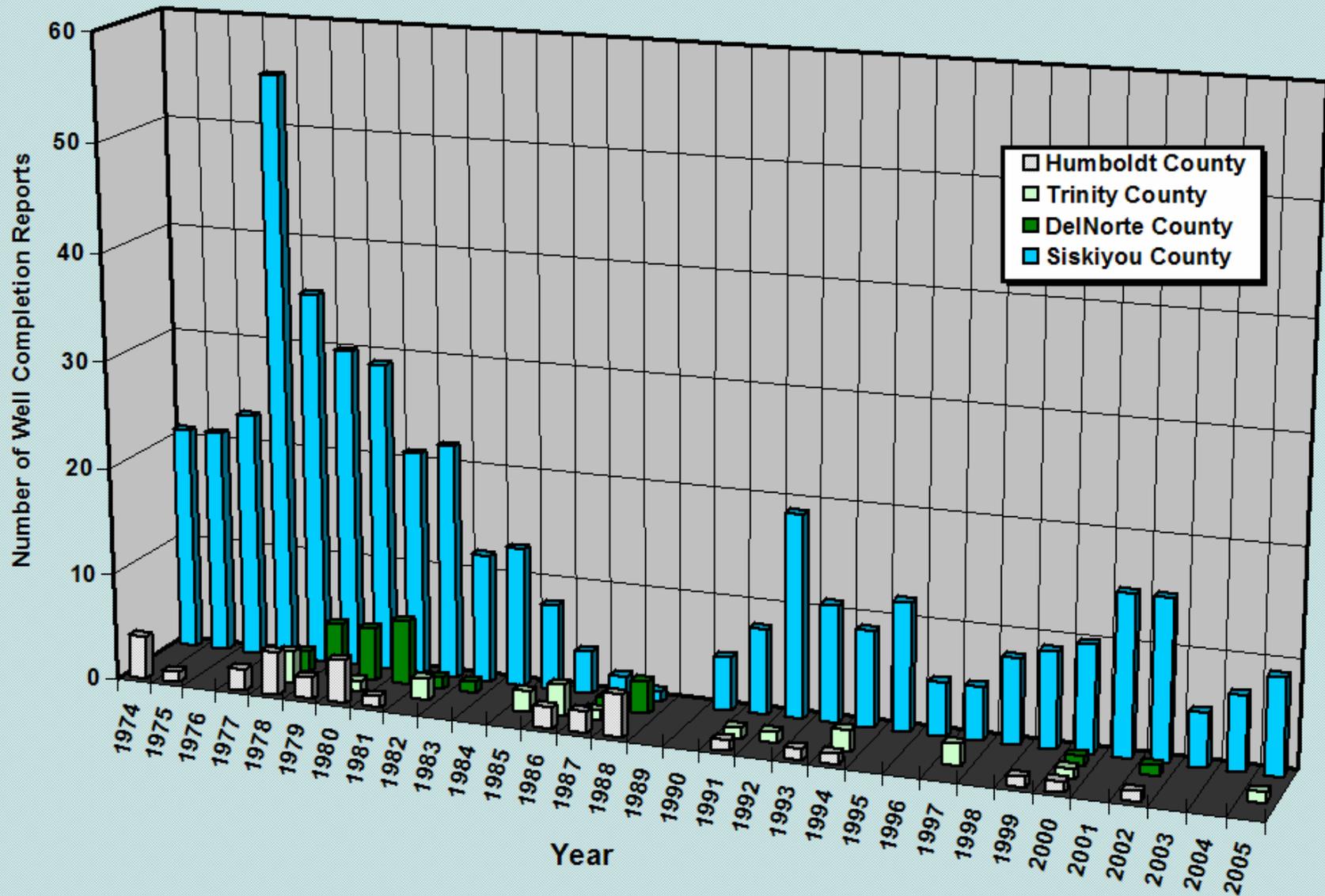
## Well Completion Reports Filed Per Year for Trinity, Siskiyou, Humboldt & Del Norte Counties



## Domestic Well Completion Reports Filed Per Year for Trinity, Siskiyou, Humboldt & Del Norte Counties



## Irrigation Well Completion Reports Filed Per Year for Trinity, Siskiyou, Humboldt & Del Norte Counties



# Groundwater Level Data & Information

The screenshot shows the Water Data Library website in a Microsoft Internet Explorer browser window. The address bar shows <http://wdl.water.ca.gov/>. The page features a navigation menu on the left with links for DWR Home, DPLA Home, Water Data Library Home, Water Quality Data, Groundwater Data, Surface Water Data, Climatology Data, and Contacts. Below the menu is a search bar and radio buttons for 'DWR' and 'My CA'. The main content area is titled 'Water Data Library - Home' and includes a welcome message and a list of data modules: Water Quality Data, Groundwater Level Data, Surface Water Data, and Climatology Data (New Development Site - Coming Soon). A section titled 'Groundwater Level Data, 04N01W21B001H' displays a line graph for well 04N01W21B001H in Eureka Plain. The graph plots 'Elevation of water surface (NGVD)' on the left y-axis (20 to 80) and 'Depth to water below land surface, feet' on the right y-axis (0 to 60) against 'Calendar Year' on the x-axis (1980 to 2010). The data points show a fluctuating trend between approximately 45 and 55 feet depth, with a notable 'Questionable Measurement' marked with a red asterisk around 1995. The source is cited as 'Department of Water Resources'.

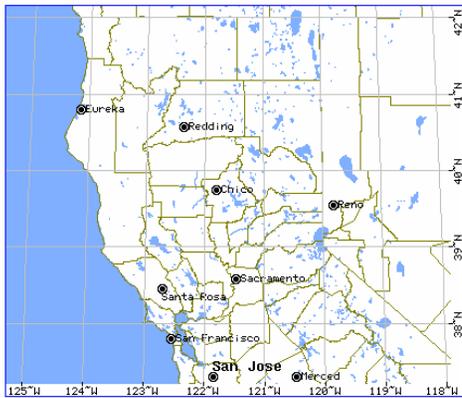
Water Data Library: (<http://wdl.water.ca.gov/>)

# Groundwater Data & Information

## DWR Water Data Library

**Northern California Map Interface**

**Instructions: (Step 2 of 4)**  
This map provides access to groundwater level monitoring data through a series of progressively larger-scale maps. Click on the map below to "zoom in" to a regional map that shows more geographic detail. Subsequent maps will enable you to select wells for data retrieval. Data may also be obtained using our [text interface](#).

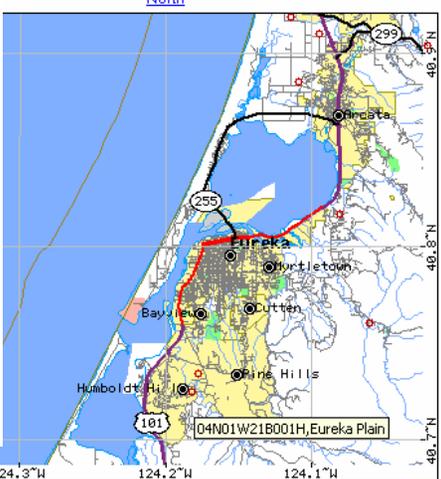


[ [State Map](#) | [Central California](#) | [Southern California](#) ]

to the next (and lowest) level map from which individual water well data rest on the map below to "zoom in" to a map showing well locations. Data [face](#)



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



[ [Return to Regional Map](#) ]

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

Well Number:

Basin:

## Map Interface for Groundwater Levels

# Groundwater Data & Information Online

The screenshot shows the homepage for the Northern District of the Department of Water Resources. It features a navigation menu on the left with links for 'DPLA Home', 'Northern District Home', 'Northern District Links', 'Our Work', 'Available Data', 'About Us', 'Available Publications', 'Contact Us', 'Site Map', 'Home Page Links', 'Water Links', and 'District Partnerships'. The main content area includes a 'Welcome to Northern District' message and a 'Map of Northern District Counties' showing various counties like Colusa, Yuba, and Butte. A sidebar on the right provides contact information for the Northern District Department of Water Resources, including a phone number (530) 529-7300 and an address at 2440 Main Street, Red Bluff, CA 96080.

DWR, Northern District Homepage

The screenshot displays the Groundwater Information Center homepage. It features a navigation menu on the left with links for 'DWR Home', 'DPLA Home', 'Groundwater Home', and 'Bulletin 118 Home'. The main content area includes a 'Groundwater Information Center' header, a quote about water demand, and a list of resources such as 'California's Groundwater: Bulletin 118, Update 2003', 'Groundwater Basics', 'Technical Assistance Programs', 'Financial Assistance Programs', 'Laws & Legislation', 'DWR's Role in California Groundwater Management', and 'DWR Publications'. A sidebar on the left provides additional navigation options like 'Groundwater Basics', 'Technical Assistance Programs', 'Financial Assistance Programs', 'Laws & Legislation', 'DWR Groundwater Publications', 'Other References', 'FAQ', 'Contacts', and 'Related Links'.

DWR Groundwater Information Center

The screenshot shows the homepage for the North Coast Integrated Regional Water Management Plan (IRWMP). It features a navigation menu at the top with links for 'PROJECTS', 'HOME', 'LIBRARY', 'MAPS', 'CALENDAR', and 'SEARCH'. The main content area includes a 'LOG IN' section with fields for 'LOG-IN' and 'PASSWORD', a 'WHY LOG-IN?' section, and a 'YOU ARE INVITED TO PARTICIPATE!' section. The 'GOALS' section states that the IRWMP aims to integrate projects and management plans of water-related public agencies and eligible organizations in the North Coast region. The 'RESOURCES' section includes 'Integrated Regional Water Management Guidelines' and 'Senate Bill No. 1672'. A sidebar on the left provides a 'USE THE MAP FEATURE' and a 'SIGN UP NOW!' button.

North Coast IRWMP Homepage

# Water Supply Issues

- General Plans & land use planning – *Sufficient water for proposed development ??*
  - Drought resiliency on Klamath
  - Trinity River operations
  - Small groundwater basins
  - Financial limitations
- 

# Water Quality Issues

- Land Use and Develop increase on WQ impacts on water supply
- Septic tank failures
- Erosion and runoff
- Groundwater salinity intrusion
- EPA drinking water standards
- Protection of Water Supplies from Transportation Corridor

# Environmental Water Issues

- Endangered Species Act impacts on water supply (Coho and Suckers); Operation, maintaining existing, and development of new water supplies.
  - Klamath & Trinity Rivers fishery populations and habitat
- 

# Flood Protection Issues

- Floodplain construction w/ general public picking up the tab.
- Need for Safe Harbor agreements
- Living with hydrologic uncertainty vs. concrete and rebar control; or somewhere in between?

# Water Management Issues

- Water Users opting out of State Watermaster Service
- Disadvantaged areas' fiscal inability to manage system resources.
- Federal vs. State vs. County vs. District vs. NGO vs. no control.
- Like Rest of State; AG/ M&I / Environ confrontations reign in the region.

# Looking to the Future

- Regional water treatment
- Groundwater development investigations
- Klamath River Solution
- Save Our Scott & Shasta
- Trinity River Fish & Wildlife Management Program
- Russian River Action Plan implementation
- County General Plans
- Watershed Groups