REAL TIME DATA AND FORECASTING



Rich's Trite and Toxic Word List

Collaboration Conundrum Consortium Epiphany Nexus Win-Win Situation Watershed moment



Purposes for Water Quality Monitoring Data

Regulatory Compliance
Research
Baseline or Historical Record
Source Water Protection
Determine Sources and Loads

Value of Sources and Loads

Concentration Provides Limited Value

Integration of Hydrology

True Measure of Contribution/Mass Balance

Track Long Term Trends



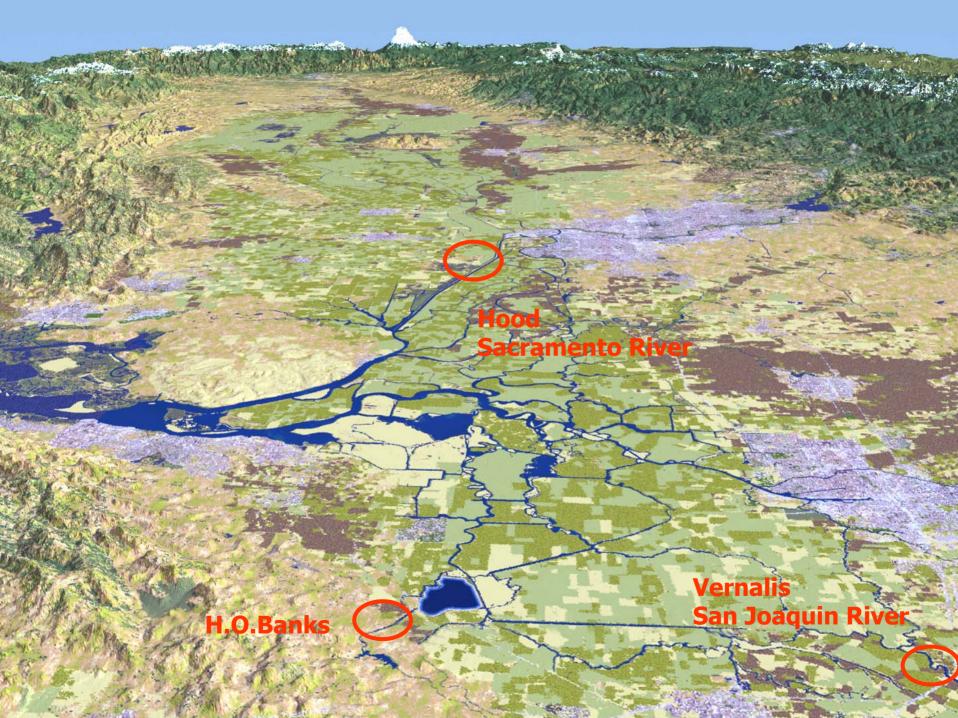
Real Time Data and Forecasting

Evolution of Analytical Equipment

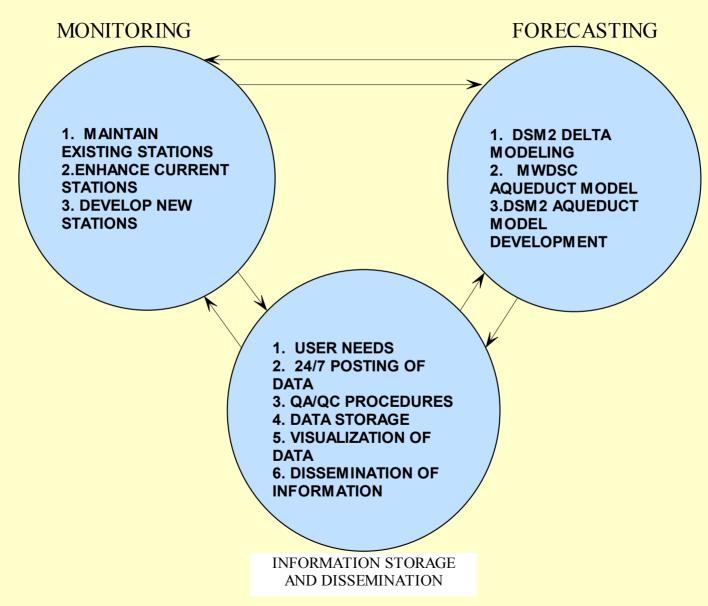
Value

Challenges

Modeling and Forecasting

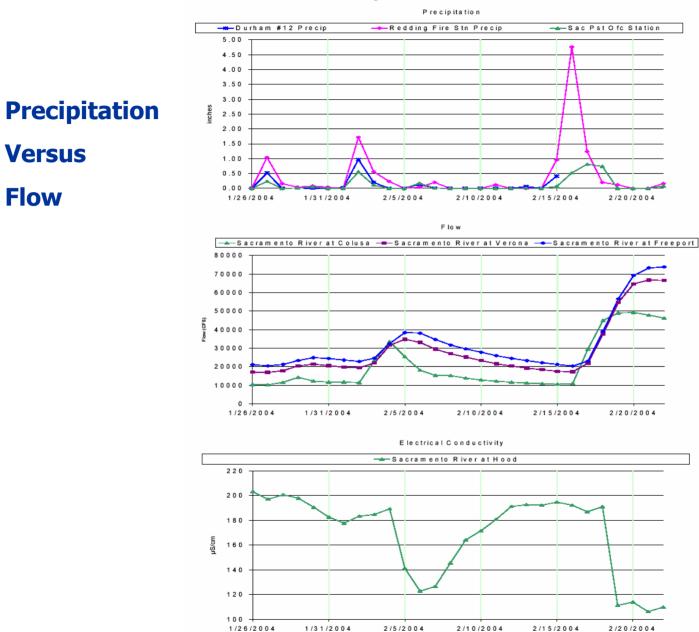


RTDF-Three Work Groups



How to Serve it Up-Real Time Data and Forecasting Project Define Customer Needs Develop Tools and Processes Valuable Products=Resources Feedback Process

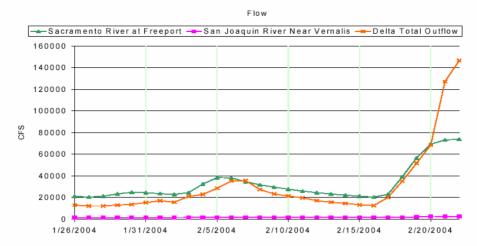
1. Sacramento River Precipitation, Flow and EC



Flow

Versus

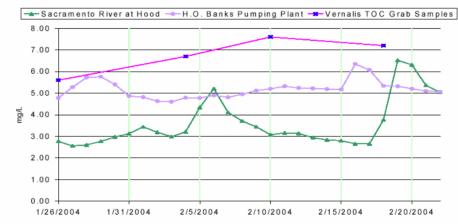
4. Flow and Total Organic Carbon - Delta





Flow

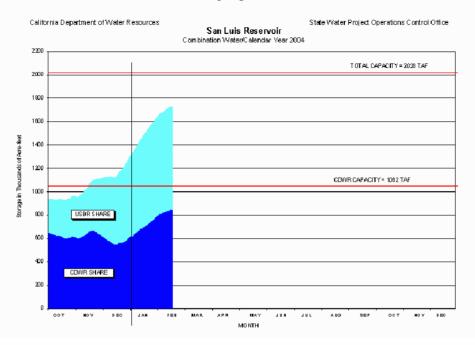
TOC (Combustion)



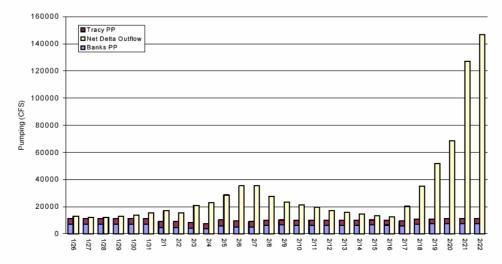
Delta Flow and Total Organic Carbon 1/26/2004-2/22/2004

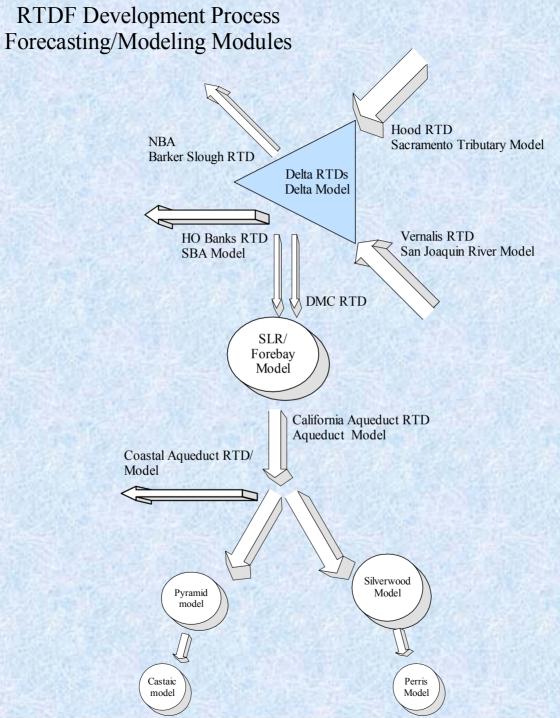
As mentioned last week the winds on 2/16/04 caused a sudden increase in TOC at the H.O. Banks pumping plant with several of the individual analyses going above 7.5 mg/L; however, the levels dropped the next afternoon and daily averages for the two days were only 6.35 and 6.07 mg/L. The range for the last few days was 5.34 to 5.07 mg/L. The recent high flows in the Sacramento River have resulted in higher TOC values at Hood with values going from less than 3.0 mg/L to 6.52 mg/L on 2/19/04 and 5.04 mg/L on 2/22/04.

7. San Luis Reservoir, Delta Pumping and Delta Total Outflow









Source Tracking or "Fingerprinting"

Sacramento River

San Joaquin River

Martinez

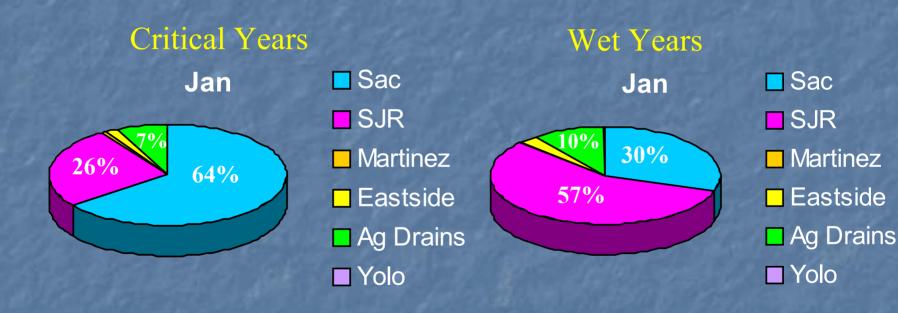
Eastside Streams

Ag Drains

Yolo Bypass



Flow Contributions at Clifton Court



Take Home Messages Define Purpose for Monitoring Determine Customer Needs Develop Program to Fit Needs Revisit Product

