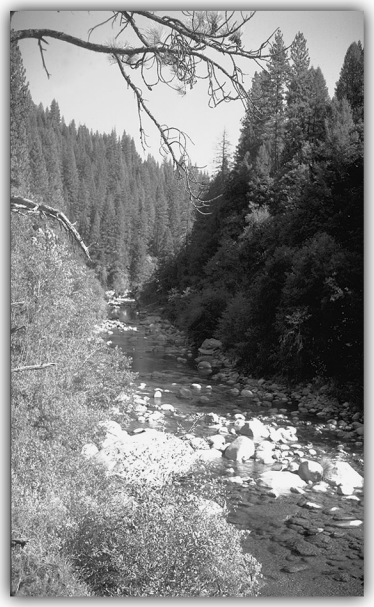
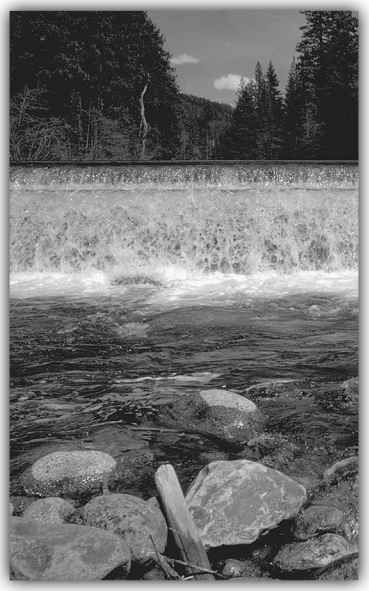
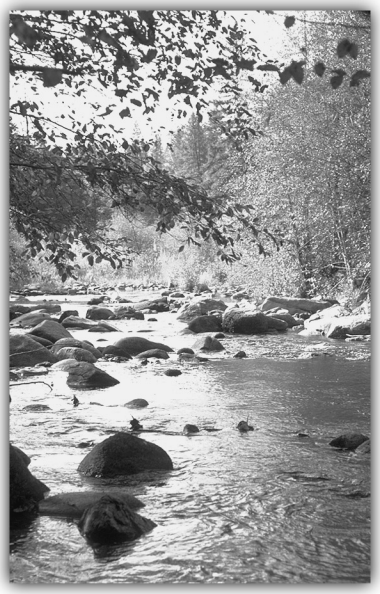
State of California
The Resources Agency
Bulletin 170-98



Department of Water Resources Publications 1998

May 2000

Gray Davis
Governor
State of California

Mary D. Nichols
Secretary for Resources
The Resources Agency

Thomas M. Hannigan
Director
Department of Water Resources

Bulletin 170-98: Department Publications

STATE OF CALIFORNIA
Gray Davis, Governor

THE RESOURCES AGENCY
Mary D. Nichols, Secretary for Resources

DEPARTMENT OF WATER RESOURCES
Thomas M. Hannigan, Director

Acting Deputy Director

Steve Macaulay
Chief Deputy Director

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David C. Cecil, Vice-Chair, Willows

George Gowgani, Ph.D. ..... San Luis Obispo

Raymond E. Barsch
Executive Officer

The California Water Commission serves as a policy advisory body to the Director of Water Resources on all California water resources matters. The commission provides a water resources forum for the people of the State, acts as a liaison between legislative and executive branches of State government, and coordinates federal, State, and local water resources efforts.

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INTRODUCTION

Bulletin 170 is an annual online guide to the Department of Water Resources' publications. Every year, the Department issues technical bulletins, reports, and other publications documenting the measurement, protection, use, and management of California's water resources.

Bulletin 170-98 includes summaries of all bulletins, district/division reports, newsletters, and brochures issued during 1998. Bulletins and reports marked O.P. (out-of-print) may be viewed at the libraries listed on pages 47-53.

All publications may be obtained from:

State of California
Department of Water Resources
Bulletins and Reports
P.O. Box 942836, Sacramento, CA 94236-0001
or
1416 Ninth Street, Third Floor
Sacramento, CA 95814
(916) 653-1097

If a price is shown, please make checks or money orders payable to the **Department of Water Resources**. California residents should add the current sales tax.

Bulletin 120 Series

For information on Bulletin 120, contact the Division of Flood Management at (916) 574-2783.

cdec.water.ca.gov/snow/bulletin120/

Water Conditions in California
16 pages
Free

Bulletins in the 120 series (Reports 1 through 4) are published in February, March, April, and May updating records of statewide precipitation, snowpack, reservoir storage, and streamflow. The four issues forecast water supply for two periods: (1) the April-July snowmelt period and (2) the remainder of the water year (from the date of forecast to September 30).

120-98: Reports 1 - 4
(for 1997-98 water year)

Bulletin 132 Series: Management of the California State Water Project

For information on Bulletin 132, contact the State Water Project Analysis Office at (916) 653-4631.

wwwswpao.water.ca.gov/other/other.html

The Bulletin 132 series includes several annual publications about the status of the State Water Project. The main report covers the Project's continuing progress, water and power management, water conditions and deliveries, recreation, and fish and wildlife activities. Appendix B, *Data and Computations Used to Determine Water Charges*, is included.

Printed separately are Appendix A, the *Annual Financial Report*, Appendix B, *Data and Computations Used to Determine 1999 Water Charges*, Appendix D, *Costs of Recreation and Fish and Wildlife Enhancement*, and Appendix E, *Water Operations in the Sacramento-San Joaquin Delta.*

Bulletin 132-96
Management of the California State Water Project
August 1997
348 pages
$15

Today, 29 long-term water contracts are in effect for eventual delivery of 4.2 million acre-feet annually. Bulletin 132 reports the progress of planning studies for future water and power supplies, construction progress, litigation, financing and future costs, the Monterey Agreement, the Bay-Delta Accord, and other areas of interest.

Appendix A: 1998 Annual Financial Report
October 1998
14 pages
Free

This document contains the financial statements of the State Water Resources Development System. These are based on the principles and requirements of the Burns-Porter Act and provisions of the California Water Code, the Water Supply Contracts, and the Bond Resolution.

Bulletin 132 (continued)

Appendix B: Data and Computations Used to Determine 1999 Water Charges
July 1998
136 pages
Free

This document includes the annual review of all water supply and financial aspects of the State Water Project as required and used by the State in determining the long-term water supply contractors' statements of charges paid.

Appendix D 132-94: Costs of Recreation and Fish and Wildlife Enhancement
September 1997
14 pages
Free

This document includes the annual costs of all SWP recreational expenditures, including land acquisition.

Appendix E 132-94: 1993 Water Operations in the Sacramento-San Joaquin Delta
June 1998
92 pages
$5

This document describes SWP operations of the Sacramento-San Joaquin Delta and major SWP storage reservoirs as affected by water conditions, water demand, facility repairs, and Delta water quality standards.

Bulletin 160 Series

For information on Bulletin 160, contact the Statewide Planning Branch (916) 653-7101.

rubicon.water.ca.gov/b160index.html

California Water Plan: Bulletin 160-98
November 1998
850 pages
Volumes 1 and 2, and Executive Summary
First set is free. Subsequent copies cost $25.

In 1957, the Department published Bulletin 3, the *California Water Plan.* Bulletin 3 was followed by the Bulletin 160 series, published seven times between 1966 and 1998 to update the *California Water Plan.*

Bulletin 160 assesses California's agricultural, environmental, and urban water needs and evaluates water supplies to quantify the gap between existing and forecasted future water demands and the corresponding water supplies. The series presents a statewide overview of current water management activities and provides water managers and others with a framework for making water resources decisions.

Bulletin 160 is updated and published every five years as mandated by law.

DIVISION OF PLANNING and LOCAL ASSISTANCE
Sacramento

For information about Division of Planning and Local Assistance publications, call (916) 323-4510.

Also see wwwdpla.water.ca.gov/cgi-bin/publications/

Drainage Management in the San Joaquin Valley: A Status Report
February 1998
64 pages
Free

In 1990, the federal/State interagency San Joaquin Valley Drainage program recommended a plan that addressed environmental concerns and measures for drainage management but did not address the Valley's long-term salt balance issue. A 1990 plan was used as the primary guide for the San Joaquin Valley Drainage Implementation Program. This report evaluates and updates the 1990 plan and examines options for salt use.

Quality Assurance Management Plan for Environmental Monitoring Programs, Quality Assurance Technical Document 5
June 1998
24 pages
Free

The development and implementation of the Quality Assurance Management Plan is required by the Department's quality assurance/control policy for environmental monitoring programs. The Department has developed a QAMP documenting how it will plan, implement, and assess the effectiveness of quality assurance and quality control operations applied to the Department's environmental monitoring programs.

The North Bay Aqueduct Barker Slough Watershed Water Quality, Phase I Report
July 1998
100 pages
Free

This report summarizes the first 12 months of the MWQI Committee's follow-up activities in the NBA watershed.

Division of Planning and Local Assistance (continued)

Municipal Water Quality Investigations Program 1997 Compendium of Water Quality Investigations in the Sacramento River Watershed, Sacramento-San Joaquin Delta, and San Francisco Bay Area
August 1998
147 Pages
$10

This report presents 450 sampling sites in the Sacramento River watershed, Sacramento-San Joaquin Delta, and the San Francisco Bay area. These sites are sampled as part of 54 water quality programs conducted by federal, State, and local agencies. This report covers water quality programs and sampling sites of organizations that responded to an initial survey.

Quality Assurance Guidelines for Preparing Quality Assurance Project Plans, Quality Assurance Technical Document 6
August 1998
62 pages
Free

These guidelines describe requirements for preparing Quality Assurance Project Plans involving environmental measurement studies conducted by the Department. More specifically, this document focuses on projects involving physical and chemical measurements of water quality.

Technical Elements of CIMIS
December 1998
63 pages
Free

This publication explains the technical aspects of the California Irrigation Management Information System, including station site selection and maintenance, sensor specifications, calibration, data collection, quality control, and the equations used to estimate reference evapotranspiration.

NORTHERN DISTRICT
Red Bluff

For information about Northern District publications, call (530) 529-7300.

Contribution of Frenchman Lake Spill to the Fishery of Little Last Chance Creek
December 1998
51 pages plus Appendices A-C
Free

This report summarizes a 1997 study of Frenchman Lake spillway fish emigration. The results are presented in the context of other Upper Feather Basin fishery and recreation information the Department has collected. The report also provides information on the status of Frenchman Lake and Little Last Chance Creek fisheries, especially following the 1991 chemical treatment of these waters to eradicate northern pike. The findings are timely given the State's interest in restoring Lake Davis and Big Grizzly Creek following the controversial chemical treatment there in 1997.

Butte Valley Wildlife Area Well Interference Investigation
December 1998
102 pages
Free

Under contract to the Department of Fish and Game, DWR conducted a series of aquifer performance tests and monitored groundwater levels in Butte Valley in 1996-97. Because of the unique geologic structures found in the area, hydraulic continuity between particular groups of wells exists, and mutual well interference can cause slightly increased operational drawdowns. The report provides some recommendations to limit adverse impacts.

SAN JOAQUIN DISTRICT
Fresno

For information about San Joaquin District publications, call (559) 230-3300.

San Joaquin Valley Drainage Monitoring Program 1993
September 1998
38 Pages
Free

This 31st annual report presents statistical data on the quality and quantity of agricultural drainage water in the San Joaquin Valley. The Department collects and interprets these data to identify drainage problem areas and to plan drainage management projects.

SOUTHERN DISTRICT
Glendale

For information about Southern District publications,
call (818) 543-4600

Final Supplemental EIR No. 1 For the East Branch Extension Project - Phase I Covering the Redesign of Portions of the San Gorgonio Pass Water Agency Water Importaion Project
March 1998
120 pages
O.P.

This report documents the public review and comments on the East Branch Extension Project Phase I Supplemental Draft EIR. It contains copies of the written comments received and responses to the comments.

Final Documents Approving the East Branch Extension Project - Phase I Final EIR
April 1998
88 pages
$10

This document contains the Department of Water Resources' certification of compliance with the California Environmental Quality Act and its Findings; Statement of Overriding Considerations; and adopted Mitigation Monitoring and Reporting Program for the East Branch Extension Project-Phase I. Also included is the Department's Notice of Determination, which constitutes the final agency action for approval of the project.

Watermaster Service in the Central Basin, Los Angeles County, July 1997-June 1998
October 1998
100 pages
$6.50

The publication is prepared annually to report on water supply conditions in the Central Basin. It includes information on groundwater extractions, use of imported and recycled water, replenishment operations, and administration of the Water Exchange Pool; and a financial report on Watermaster Service.

Southern District (continued)

Watermaster Service in the West Coast Basin, Los Angeles County, July 1997-June 1998
October 1998
74 pages
$6

This publication is prepared annually to report on water supply conditions in the West Coast Basin. It includes information on groundwater extractions, use of imported and recycled water, replenishment operations, and administration of the Water Exchange Pool; and a financial report on Watermaster Service.

ENVIRONMENTAL SERVICES OFFICE
Sacramento

For information about ESO publications,
call (916) 277-7541

Report of the 1994 Entrapment Zone Study, Technical Report 56
January 1998
135 pages
Free

This report comprises the final report for the study of the entrapment zone conducted by a multidisciplinary team of scientists. The entrapment zone is considered an important region of the San Francisco estuary.

Delta Agricutural Diversion Evaluation Summary Report, 1993-1995, Technical Report 61
June 1998
80 pages
Free

This report contains evaluations of the Interagency Ecological Program for the Sacramento-San Joaquin Estuary Delta Agricultural Diversion Evaluation effects of in-Delta diversions on resident and anadromous fish.

Recommendations Regarding Comprehensive Aquatic Monitoring in the Sacramento-San Joaquin Estuary and Its Tributaries, Technical Report 58
August 1998
20 Pages
Free

This report includes the examination of the current aquatic monitoring efforts, identifies significant gaps in those efforts, and reports the finding of the Sacramento-San Joaquin estuary and its tributaries.

DIVISION OF FLOOD MANAGEMENT
Sacramento

For information about Division of Flood Management publications, call (916) 574-2605.

Directory of Flood Control Officials
October 1998
117 pages
Free

This directory lists local, county, State, and federal districts and agencies involved in flood control, flood operations, and related emergency response efforts.

OFFICE OF STATE WATER PROJECT PLANNING
Sacramento

For information about OSWPP publications,
call (916) 653-1099.

Also see wwwdelmod.water.ca.gov

Methodology For Flow and Salinity Estimates
in the Sacramento-San Joaquin
Delta and Suisun Marsh
July 1998
180 Pages
Free

This is the 19th annual progress report of the Department of Water Resources' San Francisco Bay-Delta Evaluation Program, carried out by the Delta Modeling Section. It documents progress in the development and enhancement of the Delta Modeling Section's computer modeling efforts and reports the latest findings of studies conducted.

DIVISION OF OPERATIONS AND MAINTENANCE
Sacramento

For information about Division of Operations and Maintenance publications, call (916) 653-8583.

Also see wwwoco.water.ca.gov

State Water Project Annual Report of Operations 1992
March 1998
70 pages
$4

This is the 19th annual report summarizing the water and energy operation of the California State Water Project. This report includes historical data, summarizes the operations of Project facilities during 1992, and includes any revision to data previously published in the monthly report, *State Water Project Operations Data*.

State Water Project Operations Data
March 1998
43 pages
$4

This monthly report summarizes the water and energy operations of the State Water Project.

State Water Project Operations Data
April 1998
43 pages
$4

This monthly report summarizes the water and energy operations of the California State Water Project.

DIVISION OF PLANNING and LOCAL ASSISTANCE
Sacramento

For information about these free DPLA publications, call (916) 323-4510.

Groundwater: The Hidden Water Supply

This brochure gives an overview of groundwater programs in the lower Sacramento Valley. See the Web site at:

wwwdpla.water.ca.gov/cgi-bin/supply/gw/main.pl

Offstream Storage: One Piece of California's Water Puzzle

Proposition 204 authorized the Department to investigate the feasibility of offstream storage upstream of the Delta. This brochure describes the various investigations now under way.

Water Facts

Water Facts are short, easy-to-read reports on water resources issues published periodically.

Number 1: Groundwater in Fractured Hard Rock, April 1991

Number 2: 7 Steps for Managing Groundwater Supplies, April 1998

Number 3: Adjudicated Groundwater Basins in California, January 1996

Number 4: Groundwater Management Districts or Agencies in California, January 1996

Number 5: California Well Standards—Questions and Answers, June 1992

Number 6: Groundwater, June 1993

(Numbers 7, 8, 9) not yet published

Number 10: Groundwater in California, March 1996

Number 11: Water Transfers, March 1996

Number 12: Water Conservation, updated January 1999

Division of Planning and Local Assistance (continued)

Number 13: Financing Local Projects, March 1996

Number 14: Water Recycling, March 1996

Number 15: Drainage Management, March 1996

Number 16: Environmental Protection, March 1996

Number 17: Water Quality, March 1996

Number 18: River Restoration/Protection, March 1996

Number 19: The California Water Plan, March 1996

Number 20: Salt Balance in the San Joaquin Valley, March 1998

Number 21: California Irrigation Management Information System, April 1998

OFFICE OF WATER EDUCATION

For information on these free OWE publications, call
(916) 653-6192

Also see wwwdwr.water.ca.gov/

Banks Pumping Plant

Describes how this pumping plant lifts water 244 feet into the California Aqueduct, where it flows south to the San Luis Joint-Use Facility.

Be a Mentor

Describes DWR's Mentor Programs.

Be Winter Wise!

Explains winter weather preparedness before, during, and after a storm.

California Aqueduct Fishing Safety

Explains basic safety tips while fishing near the California Aqueduct (also in Spanish and various Asian languages).

Fact Sheet on California Department of Water Resources

Includes the Department's mission statement, organization chart, major divisions and their responsibilities, and the State Water Project.

California's State Water Project

Presents a condensed overview of the SWP, its history, future, the environment, its route from the Upper Feather River Lakes to the Delta, pumping and power plants, and benefits of the SWP.

California's Water

Promotes DWR's visitors facilities.

Castaic Lake

Describes this lake built to provide emergency storage during shutdown of the California Aqueduct to the north, assuring water deliveries to west branch users.

Coastal Branch: The Central Coast's Link to the State Water Project

Explains the purposes of the Central Coast Branch and its benefits to the SWP.

Office of Water Education (continued)

Devil Canyon Powerplant

Describes one of the largest hydroelectric powerplants of the State Water Project.

Easy Ways to Save Water in the Home

Describes three home water wasters and ways to conserve water.

Edmonston Pumping Plant

Describes the largest pumping facility of the State Water Project, raising water nearly 2,000 feet up the Tehachapi Mountains through a series of tunnels into Southern California.

Feather River Fish Hatchery and Teacher's Guide

Explains the hatchery's purpose and its design.

Fishing Along the State Water Project

Gives safety tips for fishing along the California Aqueduct.

Flood Fighting At Home

One-page flier explains how to fill a sandbag. (Available in English and Spanish.)

Flood Forecasting in California

Includes brief information about floods, how river forecasts are made, what forecasts are available, how to use a river forecast, and where to get a forecast.

Lake Perris

Describes this multipurpose facility, providing water supply, recreation, and fish and wildlife enhancement at one of the most used lakes in the State Park system.

Los Banos Grandes Offstream Storage Project

Explains how Los Banos Grandes could store excess water pumped south from the Delta through the California Aqueduct during wet months.

The North Bay Aqueduct

Describes the North Bay Aqueduct, part of the State Water Project, and the 27-mile underground pipeline serving municipal and industrial water users in Napa and Solano Counties.

Office of Water Education (continued)

Oroville-Thermalito Complex

Describes Oroville-Thermalito Complex water storage and electrical generation facility for the State Water Project.

Pyramid Lake

Describes this reservoir of the State Water Project, which delivers water to Los Angeles and other Southern California coastal cities. It also provides regulated storage for Castaic Powerplant and flood protection along Piru Creek.

Quail Lake

Describes one of the 29 storage facilities of the State Water Project, created by cataclysmic movement of the San Andreas Fault and enlarged to move water safely across the San Andreas Fault.

Safety Along the State Water Project

Includes safety tips when fishing, boating, and walking near the State Water Project facilities.

San Luis Joint-Use Complex

Explains the San Luis Joint-Use Complex which serves the California State Water Project and the federal Central Valley Project. The joint-use complex includes O'Neill Dam and Forebay, Sisk Dam, San Luis Reservoir, Gianelli Pumping-Generating Plant, Dos Amigos Pumping Plant, and a 103-mile portion of the California Aqueduct.

Silverwood Lake

Describes this State Water Project reservoir. At an elevation of 3,500 feet, Silverwood is the highest SWP reservoir in Southern California. The reservoir provides water storage as well as recreation.

Skinner Fish Facility

Explains how fish are kept away from pumps that lift water into the California Aqueduct.

State Water Project Facilities Map

Contains a map showing powerplants, pumping plants, and pump generation powerplants along the SWP (also in Spanish, German, Japanese, and Chinese).

Office of Water Education (continued)

State Water Project Recreation Facilities

Contains maps of the State Water Project's lakes and recreational opportunities from the Sierras to Southern California—includes fishing, boating, camping, hiking, and bicycling sites.

South Bay Aqueduct and Lake Del Valle

Describes the Del Valle Dam reservoir, which provides flood control reserve and recreation.

Upper Feather River Lakes

Describes the three Upper Feather River Lakes—Antelope, Frenchman, and Davis—that mark the start of the State Water Project. Water releases from these lakes enhance fish and wildlife in the area and supplement water supplies to the Sierra Valley, Plumas County, and the city of Portola.

A Visitor's Guide to Vista del Lago

Describes Vista del Lago Visitors Center, which provides an overview of the State Water Project and the role of water in California. This brochure highlights the features of the Visitors Center (also available in Spanish).

Warne Powerplant

Explains the powerplant's design, which recaptures energy expended while pumping water through the State Water Project.

We're Saving Fish!

Describes the Bay Delta Enhanced Enforcement Project, which is dedicated to reducing the illegal harvest of striped bass, salmon, steelhead, and other fish in the Sacramento-San Joaquin Delta and San Francisco Bay.

150 Years of Water History

Provides a chronological summary of California's water history, including the development of the State Water Project.

OFFICE OF WATER EDUCATION
Sacramento

For information about Office of Water Education publications, call (916) 653-6192.

DWR News
Biannual
Free

DWR News is published for Department employees, retirees, water agencies, and other interested parties. It includes in-depth articles on DWR programs and projects, and water issues.

DWR People
Quarterly
Free

DWR People is published four times a year for Department employees, retirees, water agencies, and other interested parties. It features articles about Department employees.

ENVIRONMENTAL SERVICES OFFICE
Sacramento

For information about the IEP newsletter, call (916) 227-7531.

Also see www.iep.water.ca.gov

Interagency Ecological Program for the Sacramento-San Joaquin Estuary Newsletter
Quarterly
Free

Interagency Ecological Program for the Sacramento-San Joaquin Estuary Newsletter is published quarterly and updates activities of the Interagency program. The program's mission is to provide information about the factors which affect the ecological resources in the Sacramento-San Joaquin Estuary.

DIVISION OF FLOOD MANAGEMENT
Sacramento

For information about the newsletter, call (916) 653-6880.

Also see www.fpm.water.ca.gov/

The Golden State Floodlight
Biannual
Free

The Golden State Floodlight is published twice a year for California floodplain managers and other interested parties. The newsletter's purpose is to assist communities in managing their floodplains and meeting the Federal Emergency Management Agency requirements under the National Flood Insurance Program.

DIVISION OF PLANNING AND LOCAL ASSISTANCE
Sacramento

For information about Division of Planning and Local Assistance publications, call (916) 327-1654.

California Water Plan News
Quarterly
Free

California Water Plan News is published quarterly to provide information about the data and forecasting techniques associated with statewide water supply planning for use in Bulletin 160, *The California Water Plan*. The newsletter provides an overview of conditions or developments influencing planning at the State level. Past issues of this newsletter are available at:

rubicon.water.ca.gov

Water Conservation News
Quarterly
Free

Water Conservation News offers readers articles and editorials about agricultural and urban water conservation. The newsletter includes listings of water-related publications, events, and summaries of water-related legislation and programs. Past issues of this newsletter are available at:

wwwdpla.water.ca.gov/cgi-bin/publications/pubs/main.pl

OFFICE OF WATER EDUCATION
Sacramento

For information about Office of Water Education publications, call (916) 653-6192.

Also see wwwdwr.water.ca.gov/owe

Student Workbooks

California Water Works...and Why It Does

A colorful comic book character, Professor Goodwater, leads students through the water cycle, showing them how water is delivered through California's built and natural water systems. Water conservation guidelines are also provided. Appropriate for grades 4-8. (Available in English and Spanish.)

The Safety Adventures of Albert & Einstein

The Department's safety mascots teach children water safety using puzzles and comics. Also available are Albert and Einstein pencils, pencil cases, rulers, and bookmarks.

Water and Me

This coloring and activity book for grades K-2 includes simple puzzles and matching activities that teach about water use, the importance of clean water, and the forms water takes. It includes a 2-page illustration of the water cycle.

Teacher's Guide & Student Workbooks

Water Fun

This colorfully-illustrated comic book has stories, games, and puzzles designed to teach students about the water cycle and water conservation. The teacher's guide has spinoff ideas, background information, and a water vocabulary list. Appropriate for grades 1-4.

Captain Hydro
(Teacher's guide is out-of-print)

This comic book story about Captain Hydro, hero of water conservation, is for grades 5-8. Captain Hydro battles his foe, the Water Bandit. The readings, worksheets, and projects teach about the water cycle, uses of water, water treatment, and conservation. The teacher's guide includes suggestions for follow-up activities and an extensive water bibliography. (Spanish version, *Captain Tlaloc*, is also available.)

The Further Adventures of Captain Hydro

In this colorful student comic book for grades 6-9, Captain Hydro continues to battle the Water Bandit. The teacher's guide is a resource of reproducible student worksheets and lessons about water in the context of world history and geography (ancient civilizations to 500 A.D.) It includes a glossary of water terms.

Some Things Fishy

This teacher's guide of 12 lessons on salmon and steelhead covers such topics as anatomy, adaptions, life cycles, habitat, genetics, and the role hatcheries play. The lessons are meant to be used in the classroom before or after a field trip to the Feather River Fish Hatchery. The guide includes information on how to visit the hatchery and contains a glossary and a list of available supplemental resources. Appropriate for grades 4-6.

Hands-On Water Activities for Teachers

All About Water

This AIMS-style teacher's guide for kindergartners through third graders contains 26 lessons integrating science, math, language arts, geography, art, music, drama, and health. The major themes are Systems and Interaction, Energy, Stability, and Scale and Structure. Water topics include where water comes from, the water cycle, groundwater, water pollution, and conservation. A storyline can be used to connect lessons using puppets and scenery.

Water is Your Best Friend

This series of hands-on experiments is designed to (1) convey the internal roles of water in our bodies and in plants; (2) acquaint students with water in three different guises—solid, liquid, and gas (water cycle); and (3) introduce students to methods of collecting and storing water, water use and conservation at home and at school, and filtering water to clean it. It includes two black and white posters of the water cycle and California's water resources. Appropriate for grade levels K-3.

Teacher's Guide for Hands-On Water Activities

This guide features four hands-on water science activities developed by teacher Gil Yee. A water tape measure illustrates the world's distribution of water. A water polo activity teaches water surface tension. A Cartesian diver demonstrates how pressure to a plastic water bottle affects a floating eye dropper inside. Students can also make a Solo cup rain gauge. For teachers of grades 1-6.

Water Precious Water

These sample lessons from *Water Precious Water* were developed by AIMS. The guide includes a cooperative learning lesson in which students learn a variety of interesting

facts about water and a series of four activities that deal with some of the properties of water. Appropriate for grades 4-6.

Flannel Board Stories

Flannel board stories include a script for teachers to follow, a vocabulary list of water-related words, and directions for making the flannel board and characters.

Water is Peter's Best Friend

This story is designed to help teachers explain the basic concepts of water to grades K-2. It teaches the importance of water, where it comes from, and why we should use it wisely, using the illustrated story of Willy the Water Droplet and his friend Peter as they explore the nature and uses of water.

Peter's Magical Water Journey

Designed to help teachers explain the basic concepts of water to students in grades 2-4. This story covers the water cycle, water uses, and conservation in more detail, using an older Peter and more illustrations than the K-2 version.

Wall Posters

One copy per teacher

How We Can Save Water

This colorful 24-inch by 16-inch poster illustrates ways we can save water (appropriate for all grades.)

California State Water Project Map

This map of California shows topography and the major natural and built water systems (federal, State, and local). It provides an overview of the SWP and shows various SWP facilities, including visitor centers. Appropriate for grades 4 and up.

Albert & Einstein's 'Wear A Life Jacket'

DWR's water safety mascots, Albert and Einstein, urge students to wear a life jacket and identify other objects that can be used as life preservers. Appropriate for grades K-6.

Water Cycle

This colorful poster illustrates the water cycle.

Resource Materials

Environmental Education Compendium for Water Resources

Co-produced with the Department of Education and other water organizations, this book provides 109 references to various water curriculum, giving each a report card grade based on teacher ratings. Pages include descriptive information on cost and how to order materials. Water topics include groundwater, wetlands, watersheds, water supply, water conservation, properties of water, the water cycle, water pollution, and water use conflicts. One copy per teacher.

Water Conservation Class Pledge with Stickers

This pledge, four sentences within a water drop, is a short verse students recite pledging to use water wisely. Colorful stickers read "I Make Every Drop Count." Appropriate for grades K-4.

Video Catalog

This catalog of DWR-produced videos describes access to the free lending library. The catalog includes two newly produced videos for children, *The Water Cycle* and *Water–Who Needs It?* Teacher activity packets are free.

Parent/Student Water Conservation Checklist

This question and answer checklist students can take home and review with their parents. It includes suggested actions and parent signature box. Appropriate for grades 4-8.

Water Facts & Fun

This catalog includes photographs and descriptions of the school education materials DWR offers free to teachers. The brochure opens up to a 22-inch by 17-inch water cycle poster and mail-back order form. This catalog is also available on the Web at:

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500 El Camino Real 95053-0500

SANTA CRUZ

University of California, Santa Cruz
Government Publications
University Library
1156 High Street 95064

Santa Clara County Law Library
701 Ocean Street, Room 70 95060

Santa Cruz Public Library
Documents Section
224 Church Street 95060

SANTA MARIA

Santa Maria Public Library
Reference Department
420 South Broadway 93454

SANTA MONICA

Santa Monica Public Library
1343 West Sixth Street 90401

SANTA ROSA

Sonoma County Public Library
Documents
Third and E Streets 95404

Sonoma County Law Library
Hall of Justice
600 Administration Dr., Rm. 213 95403

STANFORD

Stanford University
Law Library 94305-8612

STOCKTON

San Joaquin County Law Library
222 E. Weber Ave., Room 300 95202-2787

Stockton - San Joaquin County Public Library
605 North El Dorado Street 95202

University of the Pacific Library
3601 Pacific Avenue 95211-0197

TORRANCE

Torrance Public Library
330 Torrance Boulevard 90503

TURLOCK

California State University, Stanislaus
Library Documents Department
801 West Monte Vista Avenue 95382-0299

VALENCIA

Valencia Library
23743 W. Valencia Boulevard 91355

VALLEJO

John F. Kennedy Library
Depository Program
505 Santa Clara Avenue 94590

VENTURA

Ventura County Law Library
Courthouse
800 S. Victoria Avenue 93009-2020

Ventura County Library
Documents Department
651 East Main 93001

CALIFORNIA LIBRARIES (continued)

VISALIA

Tulare County Free Library
Documents Section
200 West Oak Avenue 93291-4931

VISTA

San Diego County Library
Vista Branch, Documents
700 Eucalyptus Avenue 92084-6245

WEST COVINA

West Covinia Public Library
1601 W. Covina Parkway 91790

WHITTIER

Whittier College
Wardman Library
7031 Founders Hill Road 90608

Whittier Public Library
7344 Washington Avenue 90602-1778

OUT-OF-STATE LIBRARIES

DISTRICT OF COLUMBIA

The Library of Congress
Anglo-American Acquisitions Division
Government Documents Section
101 Independence Avenue S.E.
Washington, D.C. 20540-4172

U.S. Dept. of the Interior
Library Services Office
Serials Branch
Washington, D.C. 20240-4209

KENTUCKY

Council of State Governments
Interstate Loan Library
Post Office Box 11910
Lexington 40578-1910

Department of Water Resources--Main Page

wwwdwr.water.ca.gov

Division of Flood Management

The Floodplain Management site provides information on state floodplain management guidelines and model ordinances.

www.fpm.water.ca.gov/

Bulletin 120

This site has the latest Bulletin 120 information. Bulletin 120 is a monthly publication containing forecasts of the volume of seasonal runoff from the state's major watersheds, and summaries of precipitation, snowpack, reservoir storage, and runoff in various regions of the State. This Web page will feature PostScript and HTML versions of the Bulletin and weekly updates.

cdec.water.ca.gov/snow/bulletin120/

Division of Planning and Local Assistance

Reports Administration

This site contains links to newsletters, reports, and bulletins from different divisions.

rubicon.water.ca.gov/

Program: Division Publications

This page describes the publication unit at the Division of Planning and Local Assistance.

wwwdpla.water.ca.gov/cgi-bin/publications/pubs/main.pl

CIMIS Publications

This page lists available CIMIS publications.

wwwdpla.water.ca.gov/cimis.html

The Municipal Water Quality Investigations Home Page

This page has a comprehensive list of available MWQI publications.

wwwdpla.water.ca.gov/supply/sampling/mwq/main.htm

Model Landscape Ordinance

This page provides an online listing of the model water efficient landscape ordinance.

wwwdpla.water.ca.gov/cgi-bin/urban/conservation/landscape/ordinance/

Groundwater Management

This site includes reports and findings of California Groundwater Management Information.

wwwdpla.water.ca.gov/cgi-bin/supply/gw/management/hq/main.pl

The Municipal Water Quality Investigations page has numerous publications available.

wwwdpla.water.ca.gov/supply/sampling/mwq/main.htm

The Department of Water Resources, Central District, has published several reports that provide more comprehensive and detailed information about groundwater resources and historical groundwater levels in the basins monitored. These publications are listed below.

well.water.ca.gov/gwl/pubs/reports.htm

Division of Safety of Dams

Technical Reference

This page lists papers prepared by the Division of Safety of Dams. Almost all of the reports/papers are available online.

damsafety.water.ca.gov/tech-ref/tech_ref.htm

Office of State Water Project Planning

Available DWRSIM Studies

This page lists Delta modeling studies and contact names for those studies.

wwwhydro.water.ca.gov/studies.html

Other Data

This is a link to an anonymous ftp site for the hydrology section. This site contains the latest version of the Department's DWRSIM simulation model, support programs, and input output files from simulations run with DWRSIM.

wwwhydro.water.ca.gov/data.html

This site provides links to studies and other information posted by the Delta Modeling Section.

wwwdelmod.water.ca.gov/

This page links to copies of Interim South Delta publications.

sdelta.water.ca.gov/sdelta/web_pg/pub_doc.htm

Office of Water Education

This site contains links to lists of publications published by the Department and OWE publications.

wwwdwr.water.ca.gov/dir-dwr_publicationsR2/DWR_PublicationsR2.html

California State Water Project

SWP Operations Control Office

This site includes basic information about the Operations Control Office and has links to Delta reports and SWP operational reports.

The OCO directs the overall water and power operations of the California State Water Project. You are invited to read more about OCO, visit the Project Operations Center, view SWP Operations reports and Delta Environmental Compliance reports, or check out the U.S. Army Corps of Engineers Flood and Operations Guidelines for the SWP.

wwwoco.water.ca.gov/4dwr/indexi.html

Publications and Other Information

This page lists reports from the State Water Project Analysis Office that are available online.

wwwswpao.water.ca.gov/other/other.html

Other: Interagency Ecological Program for the Sacramento-San Joaquin Estuary

Interagency Ecological Program for the Sacramento-San Joaquin Estuary

This page describe the Interagency Ecological Program for the Sacramento-San Joaquin Estuary. DWR is one of ten members of the program.

www.iep.water.ca.gov/

IEP Program Newslettersz

This page lists newsletters published by the Interagency Ecological Program.

www.iep.ca.gov/report/newsletter/

Reports to the California Water Commission

Reports to the California Water Commission from the Director of DWR

wwwdwr.water.ca.gov/dir-water_commission_repts-99R2/Recent_Wtr_Comm_Speech_R2.html

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The Resources Agency
Department of Water Resources
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