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California Water Plan Update 2005 Highlights (a brochure)

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Volume 4 – Reference Guide

(Articles listed alphabetically by subject)

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- Introduction
(by John T. Andrew, Editor)

Background

- The Advisory Committee View (by the CA Water Plan Update 2005 Public Advisory Committee)
- Bay Delta Standards Contained in D-1641
- A California Water Chronology (by the Water Education Foundation)
- A Look Back at Past California Water Plans
- Selected Task Force and Advisory Panels
- Selected Water Prices in California
- Water Allocation, Use and Regulation in California
- What's So Special About Special Districts? A Citizen's Guide to Special Districts in California (3rd Edition) (by Kimia Mizany and April Manatt, CA Senate Local Government Committee)

Crop Water Use

- Preface (by Scott Matyac, DWR)
- The Amount of Water We Eat (by John Letey and David Birkle) Originally published in *Currents*, A Newsletter of the University of California Water Resources Center (Winter 2003, Volume 4, Issue 1)
- Central Valley Crop Classification Processing Using Remote Sensing and GIS Technologies (by Jeff Milliken, Mariette Shin, David Hansen, Charles Johnson, Michael Sebat, Joel Zander - USBR Mid Pacific Region)
- CUP (Consumptive Use Program) Model (by Morteza Orang, Richard Snyder, Scott Matyac, DWR and UC Davis)
- Evaporation Research -- A Review and Interpretation (by C.M. Burt, A.J. Mutziger, R.G. Allen, and T.A. Howell)
- Evapotranspiration and Relative Contribution by the Soil and the Plant (by Theodore Hsiao and Liukang Xu, UC Davis)
- Evapotranspiration from a Satellite-based Surface Energy Balance for the Snake Plain Aquifer in Idaho (by Richard G. Allen, Anthony Morse, Masahiro Tasumi, Ricardo Trezza, Wim Bastiaanssen, James L. Wright, and William Kramber)

- Limits to the Productivity of Water in Crop Production (by Andrew Keller and David Seckler)
- Model for Estimating Evaporation and Transpiration from Row Crops (by Francesca Ventura, Ben A. Faber, Khaled M. Bali, Richard L. Snyder, Donatella Spano, Pierpaolo Duce, and Kurt F. Schulbach) Originally published in Journal of Irrigation and Drainage Engineering, American Society of Civil Engineers. Nov/Dec 2001. Obtained from <http://www.pubs.asce.org/>
- The Promise of Regulated Deficit Irrigation in California's Orchards and Vineyards (by David Goldhamer and Elias Fereres, UC Davis, IAS-CSIC and University of Cordoba, Spain)
- SIMETAW (Simulation of Evapotranspiration of Applied Water) (by Richard Snyder, Morteza Orang, Shu Geng, Scott Matyac, and Sara Sarreshteh, UC Davis and DWR)

Data and Analytical Tools

- California 2030: An Efficient Future, Executive Summary, September 2005 (by Peter H. Gleick and Heather Cooley, Pacific Institute for Studies in Development, Environment, and Security, and David Groves, Pardee RAND Graduate School)
- Future Quantitative Analysis for California Water Planning (by Ken Kirby, Active Curiosity)
- Improving Analytical Procedures Used to Describe Future Water Conditions for the California Water Plan
- Quantified Scenarios of 2030 California Water Demand (by David Groves, Pardee RAND Graduate School, and Scott Matyac and Tom Hawkins, DWR)
- Recommended Next Steps for Improving Quantitative Information for the California Water Plan
- Strategic Analysis Framework for Managing Water in California (by California Water and Environmental Modeling Forum)
- Survey of Irrigation Methods in California in 2001 (by Morteza Orang, Richard Snyder, and Scott Matyac, DWR and UC Davis)

Environment

- Applying the Public Trust Doctrine to River Protection (By Jan S. Stevens)
- Considering Water Use Efficiency for the Environmental Sector (by Jeff Deason, Jessica Fast, Lisa Schroeer, Brian Turner and Renske van Staveren, UC Berkeley)
- Recommendations Regarding Scenarios and Application of Environmental Water 'Demands' in the State Water Plan Update & Quantification of Unmet Environmental Objectives in State Water Plan 2003 Using Actual Flow Data for 1998, 2000, and 2001 (by Environmental Defense)

Environmental Justice

- Environmental Justice in California Government (by Governor's Office of Planning and Research)
- General Plan Guidelines, Chapter 2: Sustainable Development and Environmental Justice (by Governor's Office of Planning and Research)

Global Climate Change

- Climate Change and California Water Resources: A Survey and Summary of the Literature (by Michael Kiparsky and Peter H. Gleick, Pacific Institute for Studies in Development, Environment, and Security)
- Accounting for Climate Change (by Maurice Roos, DWR)

Hydrology

- California River Indices
- Frequency of a 100 Year Flood
- Major Floods Since 1950
- Severity of Extreme Droughts in Sacramento and San Joaquin Valley

Infrastructure

- California's Major Water Projects
- California Reservoir Summary
- CALFED Bay-Delta Program Surface Storage Investigations Progress Report, April 2005. (by DWR, USBR, and California Bay-Delta Authority)
- Hydropower Projects Relicensing

Landscape Water Use

- Urban Landscape Evapotranspiration (by Richard L. Snyder, University of California, Atmospheric Science, Davis, California, and Simon Eching, DWR)
- Vegetative Assessment in an Urban Environment (by Alan Walters, Agricast)

Legislation

- The Brown Act: Open Meetings for Local Legislative Bodies (by CA Attorney General's Office)
- A Handy Guide to the Bagley-Keene Open Meeting Act 2004 (by CA Attorney General's Office)
- Recent Water Legislation (by DWR Legislative Affairs Office staff)
- Water Bonds
- Water Plan Legislation
- Work Plan for Meeting Legal Requirements for the California Water Plan

Litigation

- Joint Statement on the Monterey Amendments Litigation (by DWR, Central Coast Water Authority, State Water Contractors, Planning and Conservation League, Plumas County Flood Control and Water Conservation District, and the Citizens' Planning Association of Santa Barbara County)
- Summary of Significant Litigation 1998-2005 (by DWR, Office of Chief Counsel)

Planning

- Addressing California's Uncertain Water Future by Coordinating Long-Term Land Use and Water Planning: Is a Water Element in the General Plan the Next Step? (by Ryan Waterman). Originally published in Ecology Law Quarterly, Vol 31:1 p.117, (c) 2004 by the Regents of the University of California.
- Customer & Stake Holders Survey for CWP Update 2003
- Financing Strategies and Guidelines for Funding Water Resource Projects (by David Kracman, The Flatwater Group)
- Future Food Production and Consumption in California Under Alternative Scenarios (by Henrich Brunke, Richard Howitt and Daniel Sumner, University of California Agricultural Issues Center)
- Future Scenarios Presented in Water Plan Update 2005
- Involving Stakeholders in Irrigation and Drainage District Decisions: Who, What, When, Where, Why, How (by Lisa Beutler, Center for Collaborative Policy, California State University, Sacramento)
- Planning For Extreme and Prolonged Drought Conditions

- Planning Framework for California Water Plan Update (by Lisa Beutler and David Sumi, Center for Collaborative Policy, California State University, Sacramento)
- Strategic Planning Guidelines (by Department of Finance)

Tribal History and Consultation

- Early California Laws and Policies Related to California Indians (by Kimberly Johnston-Dodds, California Research Bureau)
- Tribal Consultation Guidelines, Supplement to General Plan Guidelines (by Governor's Office of Planning and Research)

Water Quality

- California Nonpoint Source Encyclopedia (prepared for State Water Resources Control Board by Tetra Tech, Inc.)
www.swrcb.ca.gov/nps/encyclopedia.htm
- Californians Without Safe Water, A 2005 Update (by Monique Wilber)
- Water Quality, California, 2004 (written and edited by John T. Andrew, DWR)

California Water Plan Glossary

References

Volume 5 Technical Guide (online) www.waterplan.water.ca.gov/

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PLANNING AND LOCAL ASSISTANCE

California Water Plan

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The **Technical Guide** includes information previously on the *Assumptions & Estimates Web Site*, such as process maps, data sources, related legal information and details on the **Update 2005** project organization and management. The Technical Guide is organized and formatted as a Web page to document the assumptions, data, analytical tools and methods used to prepare this Water Plan.. The Technical Guide is also known as **Volume 5** of the *California Water Plan Update 2005*.

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- [Water Portfolio Documentation: Process Maps](#)
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FUTURE CONDITIONS

- [Scenarios Factor Table](#)
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- [Preliminary 2030 Water Demand Estimates and Documentation](#) (.pdf, 96 kb)
- [Mind Map for Critical Issues for Analytical Tools to address](#) (.pdf, 247 kb)
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- ["Water Demand Forecast Methodology for California Planning Areas: Work Plan and Model Review"](#) (.pdf, 376 kb)

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