

# California Water Plan Update 2009

## ***Volume 1 The Strategic Plan***

### **Chapter 1 Introduction**

Chapter 1 Introduction outlines the process for preparing California Water Plan Update 2009 and its new features. It also explains the organization of all five volumes of Update 2009 and its Highlights brochure.

### **Chapter 2 Imperative to Act**

Chapter 2 Imperative to Act lays out a roadmap for what California needs to do now to ensure that we have enough safe and clean water through year 2050 for California's cities and towns, farms and businesses, and plants and animals when and where they need it. It describes the features of the roadmap – the themes of this water plan, the elements of its strategic plan, and the key policy recommendations. The details of the strategic plan and recommendations are part of the implementation plan in Chapter 7.

### **Chapter 3 Companion State Plans**

Chapter 3, Companion State Plans reflects the reality that Water Plan Update 2009 is not merely the Department of Water Resources' water plan—it is the state's water plan. It is the product of collaboration by many State agencies and was developed alongside, and informed by, numerous planning processes and documents. In light of increasing risks and uncertainties, water managers must consider an ever broader range of resource management issues, competing water demands, new approaches to water supply reliability, and new ways of financing. This Water Plan update recognizes that an appreciation of companion State programs and policies is essential to better understand the possibilities and constraints for water managers.

This chapter begins with an overview of institutions that govern water in California and describes the role of the Water Plan State Agency Steering Committee to help make the California Water Plan a more comprehensive planning document. We then introduce the companion State plans, those plans and programs by State agencies that have a direct connection with the Water Plan. It shows how Companion state plans were used to develop and augment content in the Water Plan, including the recommendations in Chapter 2 and the objectives and related actions in Chapter 7.

### **Chapter 4 California Water Today**

Chapter 4 California Water Today describes California's diverse communities and environment and the impediments that challenge us in meeting all our water demands. Meanwhile, we are already seeing the effects of climate change on hydrology (snowpack, river flows), storm intensity, temperature, winds, and sea levels. This chapter discusses how California's policy-makers and water communities are finding ways to break down those barriers through integrated planning and management, stewardship and sustainable practices, partnerships, legislation, and funding. Finally, this chapter recounts the many facets of California's water rights, usage, and allocation.

## **Chapter 5 Managing for an Uncertain Future**

Chapter 5, *Managing for an Uncertain Future*, is based on the need for decision-makers, water managers, and planners to use the best available data and analytical tools in planning for California's water future in the face of many uncertainties and risks. It provides examples of uncertainties and discusses the need to consider risks in planning for a more sustainable future. The chapter presents an approach for these evaluations and examples of what was learned during preparation of this Water Plan Update on the types of investments that may be useful for a more sustainable future.

## **Chapter 6 Integrated Data and Analysis**

Chapter 6, *Integrated Data and Analysis*, highlights key actions needed to improve water resources information and analysis by state government, particularly DWR, and by the many other research institutions, and federal, regional, and local water management entities. This Chapter is organized into the following sections.

## **Chapter 7 Implementation Plan**

Chapter 7 lays out the implementation plans for California Water Plan Update 2009 by presenting 12 objectives and their related actions.

## **Volume 2 Resource Management Strategies Contents**

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### **Reduce Water Demand**

Ch 2 Agricultural water use efficiency

Ch 3 Urban water use efficiency

### **Improve Operational Efficiency & Transfers**

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Ch 5 System reoperation

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### **Increase Water Supply**

Ch 7 Conjunctive management and groundwater storage

Ch 8 Desalination -- brackish and seawater

Ch 9 Precipitation enhancement

Ch 10 Recycled municipal water

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Ch 12 Surface storage – regional / local

### **Improve Water Quality**

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Ch 14 Groundwater / aquifer remediation

Ch 15 Matching water quality to water use

Ch 16 Pollution prevention

Ch 17 Salt Management

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### **Practice Resource Stewardship**

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Ch 21 Ecosystem restoration

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Ch 26 Watershed management

### **Improve Flood Management**

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### **Other Strategies**

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