

California Water Plan Update 2009

Uncertainty Category

Scenario Factors

Economic and Financial (E/F)	Total Population	Pesticides and Fertilizers Costs
	Per Capita Income	Water and Wastewater Treatment Costs
	Total Commercial Activity	Energy Costs
	Commercial Activity Mix	Irrigated Crop Area - Irrigated land area
	Total Industrial Activity	Irrigated Crop Area - Multi-cropped land area
	Industrial Activity Mix	Irrigated Crop Area - Permanent crop land area
	Commercial Employment	Irrigated Crop Area - Seasonal crop land area
	Industrial Employment	
	International Trade Agreements	
	Water Management Funding	

Institutional and Political (IP)	Population Density	Land Use Regulations / Eminent Domain
	Population Distribution	Air Quality Regulations (Carbon Emissions)
	Passive Conservation	Water Privatization
	Drinking Water Standards	Massive Population Migrations
	Irrigated Crop Area - irrigated land area	Passive Energy Conservation
	Irrigation Technology Use	Governance System
	Water Price - Rate Structure	Farm Bill Policies
	Water Price - Cost Recovery	Water Quality Requirements / Objectives
	Managed Wetlands - Irrigated habitat area	Recreational Requirements
	Private Wetlands - Irrigated habitat area	Forest Management Requirements
	Instream Flow Requirements / Objectives	Regional Transportation Systems
	Floodplain Development	Regulations of Chemicals
	Flood Threat Recognition	Rural Development
	Flood Protection Standards	Habitat Restoration
	Urban Runoff Regulations	Emerging Contaminants
	Agricultural Runoff Discharge Requirements	
	Regulation of Delta Exports	
Colorado River Agreements		
Endangered Species Listing		

Natural System (NS)	Air Temperature variability	Water Temperature Variability
	Air Temperature trends	Water Temperature Trends
	Precipitation Variability	Stream-Aquifer Interaction
	Precipitation Trends	Catastrophic Events
	Snowpack/melt (intermediate factor)	Saltwater Intrusion
	Sea-level Rise	Extreme Precipitation Events
	River/Stream Unimpaired Flows	Condition of Pelagic Fishes
	Species recovery	Groundwater Recharge Area
	Extent of Invasive Species	Phytoplankton Densities
	Resilience of Endangered Species	Water Quality (Surface Water / Groundwater)

Technological (Tech)	Membrane Technology Innovation	Data Sharing Technology
	Groundwater Injection Technology Innovation	Water Quality Monitoring/Detection Technology
	Water Use Technology Innovation	Stormwater Capture Systems
	Flood System Integrity	Gray Water Systems
	Infrastructure Performance	Water Treatment Technology
Development of Safer Chemicals		

Social Practices (Soc)	Demand for Water-based Recreation	Forest Management Practices
	Population Density	Sustenance Fishing
	Population Distribution	Tribal Access to Sacred Sites and Cultural Resources
	Consumer Preferences	
Water Use Intensity		