

Uncertainty Category	2009 Scenario Factors	Others
Economic and Financial (E/F)	Total Population Per Capita Income Total Commercial Activity Commercial Activity Mix Total Industrial Activity Industrial Activity Mix Energy Costs Irrigated Crop Area - Irrigated land area Irrigated Crop Area - Multi-cropped land area Irrigated Crop Area - Permanent crop land area Irrigated Crop Area - Seasonal crop land area Availability of funding for water management and development	
Institutional and Political (I/P)	Population Density (Inst / Political) Population Distribution (Inst / Political) Passive Conservation (Inst/Political) Drinking Water Standards Irrigated Crop Area (Institutional/Political) Irrigation technology use Water Price - Rate Structure Water Price - Cost Recovery Managed wetlands - Irrigated land area Private wetlands - Irrigated land area Instream flow requirements / objectives Floodplain development Flood threat recognition Flood requirements Urban Runoff Regulations Ag Discharge Requirements Regulation of Delta Exports Colorado River Agreements (Inst/Political) Endangered species listing	
Natural System (NS)	Temperature variability Temperature trends Precipitation variability Precipitation trends Snowpack/melt (intermediate factor) Sea-level rise Colorado River flows Extent of invasive species Resilience of endangered aquatic species	
Technological (Tech)	Membrane technology innovation Groundwater injection technology innovation Water use technology innovation Flood system integrity Infrastructure performance	
Cultural Practices (Cul)	Demand for water-based recreation Population Density (Cultural) Population Distribution (Cultural)	

"Current Trends"

Economic and Financial (E/F)	<p>Population in growth increases as projected by the Department of Finance.</p> <p>The California economy continues to be robust, but with periodic downturns.</p> <p>The area of irrigated agricultural land continues to decline, although increases in agricultural intensity (e.g. multi-cropping) partially compensates.</p> <p>Funding continues to be available for water resource management and development.</p>
Institutional and Political (I/P)	<p>Population growth is greatest in the valley and along the California coast.</p> <p>Some efforts continue to maintain land in agricultural production through land conservation agreements and modest improvements to the Williamson Act.</p> <p>Environmental restoration projects receive modest support from the public and implementation continues to be gradual.</p> <p>Urban development along major rivers is protected by levees meeting or exceeding 200 year design and construction criteria.</p> <p>Moderate urban stormwater runoff regulations are implemented, and point source controls continue to be implemented.</p> <p>Runoff from irrigated lands and lands used for grazing and timber harvest, nonpoint sources of water pollution, is reduced moderately.</p>
Natural System (NS)	<p>Average temperatures increase according to average IPCC global climate model results.</p> <p>Precipitation patterns have changed from recent historical patterns. Some regions have gotten wetter, but other, particularly Southern California have become slightly drier. Precipitation events are more extreme and less frequent.</p> <p>Mean sea level rises according to IPCC 2007 projections.</p> <p>Invasive species continue to stress native Delta fish populations.</p>
Technological (Tech)	<p>Modest technological advancements makes desalination and recycled water less costly.</p> <p>The state's water infrastructure including Delta levy system continues to degrade due to age and deferred maintenance.</p>
Cultural Practices (Cul)	<p>Strong demand continues for recreational opportunities including water based recreation.</p> <p>Existing patterns of residential development continue, but on smaller lots, reflecting the increasing cost of buildable land.</p>

"Challenging Conditions"

Economic and Financial (E/F)

Institutional and Political (I/P)

Natural System (NS)

Technological (Tech)

Cultural Practices (Cul)

"Increasing Opportunities"

Economic and Financial (E/F)

Institutional and Political (I/P)

Natural System (NS)

Technological (Tech)

Cultural Practices (Cul)
