

CCMP	CALFED (corresponding actions)	COMPARISON/ EVALUATION
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**WATER QUALITY: CCMP Pollution Prevention Reduction & CALFED Water Quality Program**

<b>OBJECTIVE I</b> <i>Reduce pollutants into the Estuary by establishing a pollution prevention program.</i>		
<p style="text-align: right;"><b>ACTION I.1</b></p> <p>Establish specific goals for reducing the discharge of toxic pollution over time and discourage reliance on toxic materials. All dischargers should implement measures to reduce pollutants at their source.</p>	<ul style="list-style-type: none"> <li>• See CALFED Actions described under CCMP Actions I.4, I.5, 2.3, 2.4, and 2.7.</li> </ul>	<p>Both the CCMP and CALFED actions recommend pollution prevention through source control.</p> <p>The CCMP stresses a re-examination of the use of toxic chemicals.</p> <p>The CCMP recommends that all dischargers participate in a comprehensive pollution prevention program that sets specific goals for pollution reduction.</p>
<p style="text-align: right;"><b>ACTION I.2</b></p> <p>Recommend institutional and financial changes needed to place more focus on pollution prevention.</p>	<ul style="list-style-type: none"> <li>• See CALFED Actions described under CCMP Actions I.5, 2.3, and 2.4.</li> </ul>	<p>Both the CCMP and CALFED actions recommend the use of financial incentives to encourage pollution prevention.</p> <p>The CCMP recommends the retirement of marginal agricultural lands.</p> <p>CALFED recommends the change of land uses for those lands that are major sources of selenium through voluntary landowner participation and by compensated arrangements to reduce drainage volumes.</p> <p>CALFED recommends additional</p>

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		<p>treatment of discharges.</p> <p>The CCMP recommends institutional changes (e.g. water pricing schedules).</p>
<p><b>ACTION I.3</b></p> <p>Develop environmental audit procedures for all significant users and/or producers of toxic substances.</p>		<p>The CCMP encourages corporate management responsibility, as well as providing regulatory agencies with data needed to conduct mass balance analyses of the use of toxics and wasteload allocations within the Estuary.</p> <p>The CCMP also recommends a mandatory annual reporting of pollution prevention activities.</p>
<p><b>ACTION I.4</b></p> <p>Improve agricultural practices that reduce introduction of pollutants into the Estuary.</p>	<ul style="list-style-type: none"> <li>• Reduce salinity impacts to Delta urban and agricultural source water quality through source control and treatment of agricultural surface and sub-surface drainage in the San Joaquin River watershed.</li> </ul> <p><i>Methods: Concentrate and safely dispose of agricultural drainage, and treat drainage by constructed wetlands or reverse osmosis, improve timing of drainage to correspond with dilution flows.</i></p> <ul style="list-style-type: none"> <li>• Reduce salinity for agricultural source water in the South Delta through improved outflow patterns and water circulation in the Delta.</li> </ul>	<p>Both the CCMP and CALFED actions recommend the use of BMPs.</p> <p>Both the CCMP and CALFED actions recommend pollution prevention through source control.</p> <p>Both the CCMP and CALFED actions recommend water management plans for farmers.</p> <p>While CALFED recommends additional treatment of agricultural drainage and the use of other structural and non-structural measures, the CCMP emphasizes pollution prevention through the improvement of on-site BMPs.</p>

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	<p><i>Methods: Construct structural controls to manage flows, and provide additional dilution water.</i></p> <ul style="list-style-type: none"> <li>• Reduce the toxic effects of carbofuran, chlorpyrifos, and diazinon in the Delta and its tributaries through source control of agricultural surface drainage and Delta island drainage.</li> <li>• Reduce the toxic effects of ammonia entering the Delta and its tributaries through source control of agricultural surface drainage.</li> </ul> <p><i>Methods: Use incentives and BMPs.</i></p> <ul style="list-style-type: none"> <li>• See CALFED Actions described under CCMP Action I.5.</li> </ul>	
<p style="text-align: right;"><b>ACTION I.5</b></p> <p>Reinforce existing programs and develop new incentives where necessary to reduce selenium levels in agricultural drainage.</p>	<ul style="list-style-type: none"> <li>• Reduce the toxic effects of selenium loadings to the Lower San Joaquin River and Delta by controlling sources of selenium in agricultural sub-surface drainage.</li> </ul> <p><i>Methods: Provide incentives to change use of agricultural lands, increase water use efficiency, treat drainage.</i></p>	<p>Both the CCMP and CALFED actions recommend the use of financial incentives.</p> <p>The CCMP recommends an evaluation of attainment of selenium standards through non-structural methods and on-farm practices before use of drain extensions.</p>
<p style="text-align: right;"><b>ACTION I.6</b></p> <p>Develop a comprehensive strategy to reduce pesticides coming into the Estuary.</p>	<ul style="list-style-type: none"> <li>• Identify and implement actions to address potential toxicity to water and sediment within the Delta and its tributaries.</li> <li>• See CALFED Actions described under CCMP Actions I.4 and 2.4.</li> </ul>	<p>Both the CCMP and CALFED actions recommend toxicity testing and monitoring.</p> <p>The CCMP recommends that before a new pesticide is registered for use in risk</p>

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	<p><i>Methods: Conduct toxicity testing, and coordinate existing monitoring efforts.</i></p>	<p>situations, pesticide registrants should demonstrate that the use of the pesticide will not result in unsafe discharges.</p> <p>The CCMP recommends that Water Quality Control Plans contain numerical objectives for all pesticides detected in the Estuary.</p> <p>The CCMP recommends that goals and timetables should be used to gauge progress toward compliance.</p>
<p><b>OBJECTIVE 2</b></p> <p><i>Improve regulatory systems for point and nonpoint source pollution control.</i></p>		
<p><b>ACTION 2.1</b></p> <p>Pursue a mass emissions strategy to reduce pollutant discharges into the Estuary from point and nonpoint sources and to address the accumulation of pollutants in estuarine organisms and sediments.</p>		<p>The CCMP recommends a mass emissions strategy that includes waste load allocations for all water bodies in the Estuary that do not meet water quality standards for pollutants.</p> <p>The CCMP recommends that numerical effluent limitations be imposed to ensure compliance with regulatory standards.</p> <p>The CCMP recommends that the use of marketable discharge permits be evaluated.</p>

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CCMP	CALFED (corresponding actions)	COMPARISON/ EVALUATION
<p style="text-align: right;"><b>ACTION 2.2</b></p> <p>Adopt water quality objectives that effectively protect estuarine species and human health.</p>	<p>All CALFED actions, in accordance with the 1994 Bay-Delta Accord, seek to achieve good water quality for all interests.</p>	<p>The CCMP specifically recommends that Water Quality Control Plans be revised to include objectives that protect the most sensitive species in the Estuary and that target identified pollutants of concern.</p>
<p style="text-align: right;"><b>ACTION 2.3</b></p> <p>Identify and control sources and sinks of selenium and mercury where they are accumulating in aquatic populations in the Estuary.</p>	<ul style="list-style-type: none"> <li>• Reduce the toxic impacts of oxygen depleting substances and mercury and copper loadings through source control and treatment of industrial and municipal wastewater discharges.</li> <li>• Reduce the toxic impacts of selenium loadings to the Delta through source control and treatment of industrial discharges.</li> </ul> <p><i>Methods: Provide incentives for pre-treatment of discharges from wastewater and for wastewater effluent reclamation and reuse, and provide additional treatment of oil refinery discharges to remove selenium .</i></p> <ul style="list-style-type: none"> <li>• Reduce the toxic effects of selenium loadings to the Lower San Joaquin River and Delta by controlling sources of selenium in agricultural sub-surface drainage.</li> </ul> <p><i>Methods: Provide incentives to change use of agricultural lands, increase water use efficiency, treat drainage.</i></p> <ul style="list-style-type: none"> <li>• Reduce toxic effects of mercury loadings to the Delta and its tributaries by source control or treatment of mine drainage at active and</li> </ul>	<p>Both the CCMP and CALFED actions recommend pollution prevention through source control.</p> <p>The CCMP recommends the identification and control of all sources and sinks of selenium and mercury.</p> <p>The CCMP recommends that mass emission limitations, based on bioaccumulation monitoring, be imposed on dischargers.</p> <p>The CCMP recommends that BMPs be enforced before requiring the advanced treatment of discharge.</p>

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CCMP	CALFED (corresponding actions)	COMPARISON/ EVALUATION
	<p>abandoned mine sites.</p> <p><i>Methods: Design new structural controls, provide treatment, conduct research, and design action plan for mercury.</i></p>	
<p><b>ACTION 2.4</b></p> <p>Improve the management and control of urban runoff from public and private sources.</p>	<ul style="list-style-type: none"> <li>• Reduce toxic effects of cadmium, copper, and zinc loadings from urban and industrial runoff.</li> <li>• Reduce the impacts of sediment loading, and subsequent turbidity, to the ecosystem of the Delta and its tributaries, and to urban drinking water sources in the Delta, through source control of urban and industrial runoff.</li> <li>• Reduce toxicity from the pesticides chlorpyrifos and diazinon in the Delta and its tributaries by source control of urban and industrial runoff.</li> <li>• Reduce toxic effects of nutrient loadings, and consequently oxygen depletion, in the Delta and its tributaries through source control of urban and industrial runoff.</li> </ul> <p><i>Methods: Enforce existing controls, provide incentives for additional controls, employ BMPs, and conduct research.</i></p>	<p>Both the CCMP and CALFED actions recommend pollution prevention through source control.</p> <p>While the CALFED program targets specific pollutants, the CCMP recommends a comprehensive management and control program to prevent urban runoff in all watersheds. Program elements include but are not limited to: new development construction control programs, baseline control programs, and industrial activity control programs, and public education and outreach.</p>
<p><b>ACTION 2.5</b></p> <p>Develop control measures to reduce pollutant loadings from energy and transportation systems.</p>	<ul style="list-style-type: none"> <li>• See CALFED Actions described under CCMP Action 2.4.</li> </ul>	<p>While CALFED addresses urban runoff generally, the CCMP explicitly calls attention to the connection between transportation and air quality as a source of water quality deterioration. Measures should move forward on a regional scale.</p>

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<p style="text-align: right;"><b>ACTION 2.6</b></p> <p>Improve the management and control of agricultural sources of toxic substances.</p>	<ul style="list-style-type: none"> <li>• See CALFED Actions described under CCMP Actions 1.4 and 1.5.</li> </ul>	<p>The CCMP recommends the establishment of legally responsible drainage entities where farmers are organized into groups to facilitate water quality monitoring and develop BMP plans to be submitted to the Regional Board for approval.</p>
<p style="text-align: right;"><b>ACTION 2.7</b></p> <p>Reduce toxic loadings from mines.</p>	<ul style="list-style-type: none"> <li>• Reduce toxic effects of mercury loadings to the Delta and its tributaries by source control and/or treatment of mine drainage at inactive and abandoned mine sites.</li> <li>• Reduce toxic effects of cadmium, copper, and zinc loadings to the Delta and its tributaries by source control or treatment of mine drainage at inactive and abandoned mine sites.</li> </ul> <p><i>Methods: Design new structural controls, provide treatment, conduct research, and design action plan for mercury.</i></p>	<p>Both the CCMP and CALFED actions recommend the development and implementation of control measures to reduce the discharge of metals associated with mine sites.</p>
<p style="text-align: right;"><b>ACTION 2.8</b></p> <p>Establish a model environmental compliance program at federal facilities within the jurisdiction of the Estuary Project.</p>		<p>The CCMP recommends that the Department of Defense, the Department of Energy, and the U.S. EPA establish an MOU within the jurisdiction of the Estuary Project to create a model federal facilities program to comprehensively address issues affecting environmental quality of the Bay-Delta.</p>

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CCMP	CALFED (corresponding actions)	COMPARISON/ EVALUATION
<p><b>OBJECTIVE 3</b> <i>Remediate pollution threats to public health and wildlife in the Estuary.</i></p>		
<p><b>ACTION 3.1</b> Clean up contaminants presently affecting fish, wildlife, their habitats, and food supplies.</p>	<ul style="list-style-type: none"> <li>• See CALFED actions described under CCMP actions I.4, I.5, 2.3, 2.4, and 2.7.</li> </ul>	<p>CALFED actions target stressors affecting fish, wildlife populations, their habitats, and food supplies in its Water Quality and Ecosystem Restoration Program Plan, however, the CCMP explicitly recommends remediation of toxic hot spots.</p>
<p><b>ACTION 3.2</b> Expedite the clean up of toxic hot spots in estuarine sediments.</p>	<ul style="list-style-type: none"> <li>• See CALFED actions described under CCMP actions I.4, I.5, 2.3, 2.4, and 2.7.</li> </ul>	<p>CALFED actions target stressors affecting fish, wildlife populations, their habitats, and food supplies in its Water Quality and Ecosystem Restoration Program Plan, however, the CCMP explicitly recommends remediation of toxic hot spots.</p>
	<ul style="list-style-type: none"> <li>• Reduce the concentration of salinity entering the Delta and its tributaries during low flow periods.</li> </ul> <p><i>Methods: Acquire dilution water, provide incentives for more efficient water management, use reclaimed wastewater, enhance seasonal recharge, and develop additional groundwater supplies.</i></p>	<p>The CCMP addresses salinity concerns in its Aquatic Resources Actions, specifically AR 1.1.</p>

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CCMP	CALFED (corresponding actions)	COMPARISON/ EVALUATION
	<ul style="list-style-type: none"><li>• Reduce the impact of domestic wastes and hence pathogens to Delta urban drinking water supplies and recreational water uses from boat discharges within the Delta and its tributaries.</li></ul> <p><i>Methods: Enforce regulations, conduct boater education, install structural facilities.</i></p>	The San Francisco Estuary Project has conducted intensive boater outreach on marine discharges under a grant from the California Department of Boating and Waterways.
	<ul style="list-style-type: none"><li>• Improve drinking water quality (including reduction in formation of disinfection by-products) through treatment to reduce concentrations of total organic carbon, pathogens, turbidity, and bromides.</li><li>• Improve total organic carbon, pathogens, turbidity and bromides at domestic water supply intakes.</li><li>• Reduce the toxic effects of ammonia entering the Delta and its tributaries from wastewater treatment plant discharge through improved treatment.</li></ul>	The CCMP does not directly address drinking water issues.

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**WATER USE: CCMP Water Use Actions & CALFED Water Use Efficiency Program**

**OBJECTIVE I**

*Develop water reclamation and the needed facilities to reuse water.*

**ACTION I.I**

Water reclamation and reuse feasibility studies should be completed by each Publicly Owned Treatment Works, municipality, and/or water district.

- Provide a uniform, verifiable, locally directed process for recycled water market identification and integrated water and wastewater project planning for water recycling.

*Methods: Encourage compliance with the Urban Water Management Planning Act requiring urban water agencies to prepare a water recycling feasibility plan within the UWMP process. Recommend that the UWCC consider creating a new BMP encouraging water recycling market evaluation and project feasibility evaluations. Agencies will need to comply with UWMP to receive new water, participate in water transfers, and in the drought water bank.*

- Ensure that lack of technical and planning expertise does not impede implementation of cost-effective water recycling projects by providing easily accessible assistance for planning and implementing local water recycling market evaluations, integrated water and wastewater project planning, and financial evaluations leading to accessing special water recycling funding opportunities.

Both the CCMP and CALFED actions recommend the investigation of water reclamation and reuse opportunities.

Both the CCMP and CALFED recommend that agencies develop local reclamation and water recycling programs.

CALFED's actions apply to water agencies only, while the CCMP applies to POTWs and municipalities as well as water agencies.

CALFED recommends that financial and technical assistance be provided to encourage water recycling projects.

CALFED recommends the development of cooperative, regional water recycling projects.

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CCMP	CALFED (corresponding actions)	COMPARISON/ EVALUATION
	<p><i>Methods: CALFED will facilitate use of water recycling project evaluation guidebook being prepared by the California Urban Water Agencies and the Water Reuse Association. CALFED will participate on regional water recycling feasibility studies.</i></p> <ul style="list-style-type: none"> <li>• Ensure that lack of financing ability does not impede implementation of cost-effective measures. Provide easily accessible funding for planning and implementing local water recycling projects.</li> </ul> <p><i>Methods: CALFED will provide flexible funding assistance programs or help augment existing funding mechanisms.</i></p> <ul style="list-style-type: none"> <li>• Provide opportunities for local water and sanitary agencies to join together to plan regional projects to their mutual benefit.</li> </ul> <p><i>Methods: CALFED will encourage participation in regional studies with the intent of optimizing recycled water use at minimum cost.</i></p>	
<p style="text-align: center;"><b>ACTION I.2</b></p> <p>Municipalities and counties should adopt water reclamation ordinances encouraging the use of reclaimed water, to the maximum extent practicable, while providing for the protection of public health and the environment.</p>		<p>The CCMP recommends that municipalities and counties revise their legal and regulatory systems to facilitate the development of water recycling projects.</p> <p>While details of CALFED's technical assistance and funding program for water</p>

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		recycling have not yet been specified, the CALFED approach could potentially provide assistance for the development of local ordinances.
<p style="text-align: center;"><b>ACTION I.3</b></p> <p>Local entities interested in implementing reclamation projects should develop and conduct public education programs.</p>		<p>The CCMP places an emphasis on public forums whereby individuals and interest groups can comment on water recycling projects.</p> <p>While details of CALFED's technical assistance and funding program for water recycling have not yet been specified, the CALFED approach could potentially provide assistance for local agencies to conduct education/public forums.</p>
<p style="text-align: center;"><b>ACTION I.4</b></p> <p>Ensure that state water quality standards and Basin Plans encourage water reclamation and reuse.</p>		<p>The CCMP recommends that state and regional entities' legal and regulatory systems facilitate the development of water recycling projects.</p> <p>CALFED recommends compliance only with the Urban Water Management Planning Act.</p>
<p style="text-align: center;"><b>ACTION I.5</b></p> <p>If practical, use existing facilities and develop new facilities in order to deliver reclaimed and recycled water for beneficial reuse.</p>		<p>The CCMP recommends that a Joint Powers Agreement among the POTWs, water agencies, and communities be formed to study a full spectrum of uses for surplus reclaimed water.</p>

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CCMP	CALFED (corresponding actions)	COMPARISON/ EVALUATION
		The CALFED approach supports participation in regional water recycling studies, but does not specify a level of technical assistance and funding that will be provided.
<p align="center"><b>ACTION 1.6</b></p> <p>Address and resolve, as appropriate, the impacts on water reclamation and water conservation caused by the discharge of brine from self-regenerating water softeners and other sources into the wastewater system.</p>		<p>The CCMP recommends support of the CUWCC development of a report that includes recommendations for water softeners.</p> <p>CALFED does not address this issue.</p>
<p><b>OBJECTIVE 2</b></p> <p><i>Develop water conservation methods and facilities to increase the availability of fresh water for instream uses and water supply.</i></p>		
<p align="center"><b>ACTION 2.1</b></p> <p>Governmental, agricultural, public, and environmental interests should work together to develop a mechanism to ensure implementation of Efficient Agricultural Water Management Practices.</p>	<ul style="list-style-type: none"> <li>Provide a uniform, verifiable, locally directed process for agricultural water management planning. Provide a balanced process for review and endorsement of water management plans. Identify and implement opportunities for improved local water use management and efficiency with a focus on water conservation at the water supplier level.</li> </ul> <p><i>Methods: Endorse and support MOU regarding Efficient Agricultural Water Management Practices.</i></p>	<p>Both the CCMP and CALFED actions recommend support of the MOU regarding Efficient Agricultural Water Management Practices.</p> <p>Both the CCMP and CALFED actions recommend that farmers develop water management plans.</p> <p>The CCMP recommends additional actions that build upon the MOU regarding Efficient Agricultural Water</p>

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CCMP	CALFED (corresponding actions)	COMPARISON/ EVALUATION
	<ul style="list-style-type: none"> <li>• Provide assurance that agricultural water supplies are used at highly efficient levels.</li> </ul> <p><i>Methods: Agricultural water users must demonstrate cost-effective efficiency measures in order to receive any new water. Failure to comply will trigger legislative and regulatory compliance measures.</i></p>	<p>Management Practices such as implementation of agricultural water metering.</p> <p>The CCMP recommends that the Department of Water Resources institute performance standards with explicit goals in conjunction with the MOU.</p>
<p style="text-align: right;"><b>ACTION 2.2</b></p> <p>New methods of agricultural water conservation should be researched through pilot projects and implemented where feasible.</p>	<ul style="list-style-type: none"> <li>• Ensure that lack of technical and planning expertise does not impede implementation of cost-effective measures by providing easily accessible assistance for planning and implementing local water use management and efficiency improvements.</li> <li>• Ensure that lack of financing ability does not impede implementation of cost-effective measures. Provide easily accessible funding for planning and implementing local water use management and efficiency improvements.</li> <li>• Help to meet CALFED objectives, including those related to ecosystem quality and water quality, by encouraging districts to identify opportunities for improvement when preparing water management plans; creating incentives for implementation.</li> </ul> <p><i>Methods: Assistance can be directed either at identification or implementation of opportunities.</i></p>	<p>Both the CCMP and CALFED recommend directing financial and technical assistance towards planning and implementing water use management plans and increasing the efficiency of those plans.</p> <p>The CCMP recommends directing resources specifically towards pilot projects for researching new methods of agricultural water conservation.</p>

**COMPARISON/  
EVALUATION**

**CALFED  
(corresponding actions)**

**CCMP**

Both the CCMP and CALFED recommend the identification of urban water conservation opportunities. CALFED recommends directing financial and technical resources towards this end. CALFED recommends that regulatory action be taken against non-compliers of BMPs.

- Provide a uniform, verifiable, locally-directed process for urban BMP implementation and reporting. Identify and implement opportunities for improved water use efficiency with a focus on water conservation.

*Methods: Urban water users should comply with the terms of the MOU regarding Urban Water Conservation in California. The CUWCC should adopt a process for endorsement or certification of water supplier compliance with MOU.*

- Help urban suppliers prepare, adopt, and implement useful water management plans and comply with the requirements of the Urban Water Management Planning Act.
- Ensure that lack of technical and planning expertise does not impede implementation of cost-effective measures by providing easily accessible assistance for planning and implementing local water management programs.
- Ensure that lack of financing ability does not impede implementation of cost-effective measures. Provide easily accessible funding for planning and implementing water management programs.

*Methods: Help DWR assist urban suppliers prepare and implement effective plans. Formalize plan approval process.*

Water conservation feasibility studies shall be completed and implemented by municipalities and/or water districts.

**ACTION 2.3**

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CCMP	CALFED (corresponding actions)	COMPARISON/ EVALUATION
	<ul style="list-style-type: none"> <li>• Provide assurance that urban water suppliers will carry out good water management planning and implement cost-effective conservation programs.</li> </ul> <p><i>Methods: Urban water suppliers must demonstrate cost-effective efficiency measures in order to receive any new water. Failure to comply will trigger legislative and regulatory compliance measures.</i></p>	
<p style="text-align: right;"><b>ACTION 2.4</b></p> <p>Maximize conjunctive use of water through groundwater recharge.</p>	<p>This issue is addressed by CALFED through its storage and conveyance alternatives.</p>	<p>The CCMP recommends that arrangements be made for the use of groundwater during years of below normal runoff and for the use of surface water during wet years.</p>
<p style="text-align: right;"><b>ACTION 2.5</b></p> <p>Study storage of surface water on Delta islands.</p>	<p>This issue is addressed by CALFED through its storage and conveyance alternatives.</p>	<p>The CCMP recommends conducting a study to determine if and to what extent fish and wildlife resources will be enhanced and drinking water supplies will be impacted if surface water is stored on Delta Islands.</p>
<p style="text-align: right;"><b>ACTION 2.6</b></p> <p>Evaluate and adopt, where appropriate, mechanisms to manage groundwater to protect the long-term integrity of groundwater basins.</p>		<p>The CCMP recommends that state water law be reformed to enable management and oversight of groundwater.</p> <p>Issue not addressed by CALFED.</p>

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**OBJECTIVE 3**

*Improve the legal and regulatory mechanisms to facilitate the voluntary transfer of water in order to increase the availability of fresh water for instream uses and water supply.*

<p style="text-align: center;"><b>ACTION 3.1</b></p> <p>More fully utilize the existing and expand, where appropriate, the legal and regulatory framework to facilitate voluntary water-marketing agreements among agricultural, urban, and environmental interests.</p>	<ul style="list-style-type: none"> <li>• CALFED is developing a water transfer approach as part of its Water Use Efficiency Program.</li> </ul>	
<p style="text-align: center;"><b>ACTION 3.2</b></p> <p>The state should continue to negotiate with the federal government to determine whether, and to what extent, it is appropriate for the federal government to transfer the ownership or operational control of the Central Valley Project to a non-federal entity.</p>		<p>This topic is not addressed by CALFED.</p>

CCMP	CALFED (corresponding actions)	COMPARISON/ EVALUATION
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**LAND USE: CCMP Land Use Management Actions & CALFED Watershed Approach**

**OBJECTIVE I**

*Use existing institutional capacity to improve planning, regulatory, and development programs of local, regional, and state agencies to protect the resources of the Estuary, in concert with a sustainable economy.*

<p style="text-align: center;"><b>ACTION I.1</b></p> <p>Local General Plans should incorporate watershed protection plans to protect wetlands and stream environments and reduce pollutants in runoff.</p>	<ul style="list-style-type: none"> <li>• CALFED's Ecosystem Restoration Program Plan and Water Quality Program contains watershed protection actions.</li> </ul>	<p>CALFED does not address the opportunity to integrate watershed protection plans into local General Plans as a mechanism to improve the Estuary.</p>
<p style="text-align: center;"><b>ACTION I.2</b></p> <p>Amend the California Environmental Quality Act Guidelines to add simple and concise criteria for assessing the cumulative environmental impact on the Estuary when adopting or reviewing General Plans.</p>		<p>CALFED does not address this issue.</p>
<p style="text-align: center;"><b>ACTION I.3</b></p> <p>Integrate protection of the Estuary with other state land use-related initiatives.</p>	<ul style="list-style-type: none"> <li>• CALFED recommends that local water users and suppliers adhere to the Memorandum of Understanding Regarding Water Conservation in California and the Urban Water Management Planning Act.</li> </ul>	<p>CALFED's program does not address that the improvement of the land use decision making framework is consistent with CALFED's goals to protect the Bay-Delta Estuary.</p>

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<b>CCMP</b>	<b>CALFED (corresponding actions)</b>	<b>COMPARISON/ EVALUATION</b>
<b>OBJECTIVE 2</b> <i>Coordinate and improve integrated, regional management for land use, transportation, housing, and physical infrastructure, to both protect the Estuary and provide for a sustainable economy.</i>		
<b>ACTION 2.1</b> Regional agencies should assist in identifying and developing consistent policies that provide an integrated framework for local governments to protect the resources of the Estuary.		CALFED does not address this issue.
<b>ACTION 2.2</b> Adopt policies and plans to promote compact, contiguous development, in both the nine-county Bay Area and the three-county Delta region.		CALFED does not address this issue.
<b>ACTION 2.3</b> Compile and analyze data pertaining to future population and land use change in the nine-county Bay Area and the three-county Delta region to provide information for improved decision making.		CALFED does not address this issue.

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CCMP	CALFED (corresponding actions)	COMPARISON/ EVALUATION
<p><b>OBJECTIVE 3</b></p> <p><i>Provide for comprehensive watershed planning throughout the Estuary region to protect wetlands and stream environments and reduce pollutants in runoff.</i></p>		
<p style="text-align: right;"><b>ACTION 3.1</b></p> <p>Prepare and implement Watershed Management Plans that include the following complementary elements: 1) wetlands protection; 2) stream environment protection; and 3) reduction of pollutants in runoff.</p>	<ul style="list-style-type: none"> <li>• Develop a Watershed Strategic Plan containing a stakeholder agreed-upon vision for the future of the watersheds affecting the Bay-Delta system. This plan will establish water quality, ecosystem restoration, and resource goals.</li> <li>• Help to provide quality control checks to existing and new watershed monitoring programs to enable accurate measurements and decision-making.</li> <li>• Support and foster local watershed management activities through technical, financial, and policy activities.</li> </ul>	<p>The CCMP recommends the development of Watershed Management Plans to be integrated with local General Plans as a means to implement efforts to protect the Estuary.</p>
<p style="text-align: right;"><b>ACTION 3.2</b></p> <p>Develop and implement guidelines for site planning and Best Management Practices (BMPs).</p>	<ul style="list-style-type: none"> <li>• Reduce toxic effects of cadmium, copper, and zinc loadings from urban and industrial runoff.</li> <li>• Reduce the impacts of sediment loading to the ecosystem of the Delta and its tributaries, and to urban drinking water sources in the Delta, through source control of urban and industrial runoff.</li> <li>• Reduce toxicity from the pesticides chlorpyrifos and diazinon in the Delta and its tributaries by source control of urban and industrial runoff.</li> <li>• Reduce toxic effects of nutrient loadings, and</li> </ul>	<p>Both the CCMP and CALFED recommend the use of BMPs to control runoff.</p> <p>The CCMP recommends development and implementation of guidelines for site planning to provide consistent and uniform criteria and standards.</p>

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CCMP	CALFED (corresponding actions)	COMPARISON/ EVALUATION
	<p>consequently oxygen depletion, in the Delta and its tributaries through source control of urban and industrial runoff.</p> <p><i>Methods: Enforce existing controls, provide incentives for additional controls, employ BMPs, and conduct research.</i></p>	
<p><b>OBJECTIVE 4</b></p> <p><i>Provide educational opportunities for the public and for government institutions as a foundation for protecting and enhancing the resources of the Estuary.</i></p>		
<p><b>ACTION 4.1</b></p> <p>Educate the public about how human actions impact the Estuary.</p>	<ul style="list-style-type: none"> <li>Take an active role to help plan and coordinate outreach and education programs. The Program will serve as a clearinghouse for information related to watershed-wide activities affecting the Bay-Delta system. The Program will develop a Model Work Plan and funding information for use by local watershed groups.</li> </ul>	<p>Both the CCMP and CALFED recommend public involvement and outreach to educate the public about Estuary-related issues.</p>
<p><b>ACTION 4.2</b></p> <p>Provide training workshops for local government officials and other key stakeholders to improve land use decision making that affects the Estuary.</p>		<p>CALFED has not focused on ensuring that local land use decisions are consistent with CALFED goals to protect and enhance the Bay-Delta system.</p>
<p><b>OBJECTIVE 5</b></p> <p><i>Develop new public and private economic incentives and funding mechanisms to promote protection and restoration of the Estuary and provide a forum for stakeholders that improves communication and leads to better estuarine resource</i></p>		

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CCMP	CALFED (corresponding actions)	COMPARISON/ EVALUATION
<i>management.</i>		
<p style="text-align: center;"><b>ACTION 5.1</b></p> <p>Create economic incentives that encourage local governments to take action to implement measures to protect and enhance the Estuary.</p>		<p>CALFED does not address this issue.</p>
<p style="text-align: center;"><b>ACTION 5.2</b></p> <p>Develop new funding mechanisms to pay for plans, physical improvements, and program administration to protect the resources of the Estuary.</p>	<ul style="list-style-type: none"> <li>In 1996, California voters passed Proposition 204 approving a \$995 million bond for the restoration and improvement of the Bay-Delta Estuary, \$70 million of which is being distributed through CALFED's Category III funding process.</li> </ul>	<p>Both the CCMP (largely through the San Francisco Estuary Project) and CALFED actively pursue funding mechanisms to implement program actions.</p>
<p style="text-align: center;"><b>ACTION 5.3</b></p> <p>Investigate and create market-based incentives that promote active participation by the private sector in cooperative efforts to implement goals for protection and restoration of the Estuary.</p>		<p>CALFED may be addressing this issue through assurances.</p>
<p style="text-align: center;"><b>ACTION 5.4</b></p> <p>Identify financial barriers to implementing the actions recommended in this Land Use Management Program and propose alternative taxation and funding arrangements.</p>		<p>CALFED may be addressing this issue through assurances.</p>

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COMPARISON/ EVALUATION	CALFED (corresponding actions)	CMP
CALFED does not address this issue.		<p><b>ACTION 5.5</b></p> <p>Create a forum to improve communication and resolve disputes regarding land use management among different interest groups that have a stake in the protection and enhancement of the Estuary.</p>

CCMP	CALFED (corresponding actions)	COMPARISON/ EVALUATION
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**RESEARCH AND MONITORING: CCMP Research and Monitoring Program**

<p><b>OBJECTIVE 1</b></p> <p><i>Develop an estuarine research institute for the improved coordination and reporting of monitoring and research on the Estuary.</i></p>		
<p><b>ACTION 1.1</b></p> <p>Establish and operate a San Francisco Estuarine Institute for research on and monitoring of land use, biological resources, flow regime, and dredging and waterway modification.</p>	<ul style="list-style-type: none"> <li>• The ERPP and CMARP call for coordinated monitoring, evaluation, and reporting of the results of recovery efforts, the status of ecological indicators, and water quality in the Bay-Delta and other zones.</li> <li>• The ERPP and CMARP call for focused research to help answer questions about the system and its components and increase the certainty surrounding the relationships of ecological processes, habitats and species, and water quality.</li> </ul>	<p>CALFED stresses coordinated research and monitoring, but does not designate any one organization to lead the coordination.</p>
<p><b>ACTION 1.2</b></p> <p>Provide a long-term administrative home and regular funding for the Research Enhancement Program (REP).</p>		<p>CALFED does not refer to REP.</p>
<p><b>OBJECTIVE 2</b></p> <p><i>Effectively monitor and conduct research on flow regime, pollutants, dredging and waterway modification, fish and other aquatic resources, wildlife, wetlands, and land use within the boundaries of the Estuary, using new and existing facilities, programs, agencies, and public involvement groups.</i></p>		

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CCMP	CALFED (corresponding actions)	COMPARISON/ EVALUATION
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<p style="text-align: right;"><b>ACTION 2.1</b></p> <p>Develop and implement the Regional Monitoring Strategy, which will integrate and expand on existing efforts and eventually be part of a comprehensive Regional Monitoring Program.</p>	<ul style="list-style-type: none"> <li>• The ERPP and CMARP call for comprehensive monitoring to allow progress to be measured and which will allow actions to be modified if necessary, providing assurances that the restoration objectives are being achieved.</li> <li>• CALFED calls for immediate focused research to improve understanding of the ecosystem and the causes of identified problems, and the use of results for short term studies to adjust the way that objectives are achieved, making refinements to the final ERPP targets, actions and implementation schedule.</li> </ul>	<p>CALFED acknowledges the importance of research and monitoring in the adaptive management strategy, but does not elaborate on their research and monitoring strategy.</p>
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