

JAN 08 1996

### List of Action Categories and Actions

#### Comments on Action Categories and Actions

Fax return by January 10, 1996 to (916) 654-9780  
or mail to 1416 Ninth Street, Room 1155  
Sacramento, CA 95814

Name: Lay Kelly  
Los Angeles Area Chamber of Commerce

	Importance 1-5	Core Action C
<b>Action Categories to Restore Bay-Delta System Habitats</b>		
Restoration of Bay-Delta System Shallow Water (Tidal) Habitat	<u>2</u>	_____
Actions:		
-Convert existing leveed lands to tidal action	<u>2</u>	_____
-Protect existing shallow habitat from erosion	<u>3</u>	_____
-Restore tidal action to existing diked wetlands	<u>2</u>	_____
-Reconstruct levees to include shallow water habitat	<u>3</u>	_____
-Fill deep water to produce shallow habitat	<u>2</u>	_____
Restoration of Bay-Delta System Riverine Habitat	<u>3</u>	_____
Actions:		
-Reconstruct river banks and shallow areas	<u>2</u>	_____
-Restore and preserve channel islands	<u>3</u>	_____
-Restore natural channel configurations	<u>3</u>	_____
-Modify channel/levee construction practices to include riverine elements	<u>4</u>	_____
Restoration of Bay-Delta System Riparian Habitat	<u>3</u>	_____
Actions:		
-Improve and protect degraded riparian habitats	<u>4</u>	_____
-Establish new areas of riparian habitat	<u>2</u>	_____
-Reestablish historic riparian areas	<u>2</u>	_____
-Modify levee maintenance practices	<u>3</u>	_____
-Protect existing riparian habitat	<u>4</u>	_____

	Importance 1 - 5	Core Action C
Restoration of Bay-Delta System Wetland Habitat	<u>3</u>	—
Actions:		
-Restore, enhance, and create wetlands	<u>4</u>	—
-Expand wetland acquisition programs	<u>2</u>	—
-Convert agricultural lands to wetlands	<u>1</u>	—
-Protect existing wetland habitat	<u>4</u>	—
Restoration of Bay-Delta System Terrestrial Habitat	<u>3</u>	—
Actions:		
-Protect existing upland habitat	<u>4</u>	—
-Establish upland habitat on levees	<u>2</u>	—
-Establish upland habitat on fallowed croplands	<u>2</u>	—
-Establish oak woodlands on suitable soils	<u>2</u>	—
-Encourage wildlife-friendly agricultural practices	<u>2</u>	—
-Preserve agricultural land uses providing habitat	<u>3</u>	—
-Clean up sites contaminated with toxic substances	<u>3</u>	—
Implementation of Integrated Habitat Management Programs	<u>4</u>	C
Actions:		
-Establish regional ecosystem restoration guidelines	<u>4</u>	—
-Implement integrated regional habitat management	<u>4</u>	—
-Develop cooperative management agreements	<u>3</u>	—
-Establish mitigation banking program	<u>2</u>	—
Establishment of Floodways and Meander Belts	<u>2</u>	—
Actions:		
-Relocate levees to widen floodways	<u>2</u>	—
-Allow river channels to meander	<u>2</u>	—
-Acquire Delta islands as overflow areas	<u>1</u>	—
-Restore floodways as habitat corridors	<u>2</u>	—
Control of Introduced Species	<u>5</u>	C
Actions:		
-Remove or reduce nuisance species in key habitats	<u>5</u>	—
-Improve regulation of ballast-water releases	<u>4</u>	—
-Improve border inspection practices	<u>3</u>	—
-Inspect for invasions of nuisance species	<u>4</u>	—
-Modify habitat to favor native species	<u>4</u>	—

	Importance 1 - 5	Core Action C
Delta Waterfowl Habitat Management	<u>3</u>	_____
Actions:		
-Manage agricultural crops for waterfowl forage production	<u>3</u>	_____
-Improve management of public waterfowl areas	<u>4</u>	_____
-Implement terrestrial predator control programs	<u>2</u>	_____
-Increase sources and availability of wildlife forage	<u>2</u>	_____

### Action Categories to Restore Upstream Habitat

Restoration of Upstream Anadromous Fish Habitat	<u>3</u>	<u>C</u>
Actions:		
-Manage flows and temperatures in upstream habitats	<u>3</u>	_____
-Restore and replenish spawning gravels	<u>4</u>	_____
-Restore channel configurations	<u>3</u>	_____
-Restore shoreline habitat conditions	<u>3</u>	_____
-Modify gravel mining practices	<u>2</u>	_____
-Improve floodway drainage to reduce fish stranding	<u>2</u>	_____
Improvements for Upstream Fish Passage	<u>3</u>	_____
Actions:		
-Modify passage at upstream dams and other barriers	<u>3</u>	_____
-Modify natural barriers to improve passage	<u>4</u>	_____
Restoration of Upstream Riparian Habitat	<u>2</u>	_____
Actions:		
-Restrict livestock grazing in riparian corridors	<u>2</u>	_____
-Revegetate degraded riparian habitats	<u>3</u>	_____
-Protect riparian lands through purchase/easements	<u>3</u>	_____
-Restore flows to dewatered riparian habitats	<u>2</u>	_____
Restoration of Upstream Wetland Habitat	<u>3</u>	<u>C</u>
Actions:		
-Modify floodways to support wetland habitats	<u>3</u>	_____
-Rense agricultural drainage to create wetlands	<u>3</u>	_____
-Reuse urban wastewater effluent to create wetlands	<u>2</u>	_____
-Manage groundwater recharge for wetland habitat	<u>3</u>	_____

Importance 1-5  
Core Action C

**Action Categories to Reduce Effects of Diversions**

Delta Inflow/Outflow/Export Management	<u>5</u>	<u>C</u>
Actions regarding Delta Inflows:		
-Modify upstream consumptive use	<u>4</u>	---
-Modify upstream reservoir operations criteria	<u>3</u>	---
-Modify Delta inflow timing pattern	<u>3</u>	---
-Provide instream pulse flows for fish passage	<u>2</u>	---
-Provide instream flows for fish attraction	<u>3</u>	---
Actions regarding Delta Diversions and Outflows:		
-Modify volumes and timing of exports	<u>2</u>	---
-Modify in-Delta consumptive use	<u>3</u>	---
-Modify central Delta channel operations	<u>3</u>	---
-Modify export operations criteria	<u>2</u>	---
-Establish a Delta watermaster to manage flows	<u>4</u>	---
-Use real-time monitoring and adaptive management	<u>4</u>	---
Modification of Diversion Timing Patterns	<u>4</u>	---
Actions:		
-Modify diversion timing of in-Delta diversions	<u>2</u>	---
-Modify diversion timing of export diversions	<u>2</u>	---
-Coordinate SWP/CVP diversion timing	<u>4</u>	---
-Modify diversion timing through Montezuma Salinity Control Gate	<u>3</u>	---
-Use real-time monitoring and adaptive management	<u>4</u>	---
Increased Rates of Diversion Capacity	<u>4</u>	<u>C</u>
Actions:		
-Obtain approvals for expanded export capacities	<u>4</u>	---
-Enlarge export pumping capacities	<u>4</u>	---
-Increase diversion capability at Red Bluff Diversion Dam	<u>4</u>	---
Acquisition of Long-Term Water Supplies for Fish and Wildlife	<u>3</u>	---
Actions:		
-Acquire water to augment instream flows	<u>2</u>	---
-Obtain shifts in timing of instream flows	<u>3</u>	---
-Obtain shifts in diversion timing patterns	<u>3</u>	---

	Importance 1 - 5	Core Action C
-Acquire water for refuge habitat use	<u>3</u>	_____
-Modify water law to establish instream rights	<u>1</u>	_____
Installation and Improvement of Fish Screens	<u>2</u>	_____
Actions: -Improve screens at Delta export pumps	<u>3</u>	_____
-Improve other existing fish screen systems	<u>3</u>	_____
-Install screens on other in-Delta diversions	<u>2</u>	_____
-Install screens on upstream diversions	<u>2</u>	_____
-Consolidate and screen existing small diversions	<u>2</u>	_____
-Enforce screening requirements	<u>2</u>	_____
Improvement of Bay-Delta System Fish Migration	<u>3</u>	_____
Actions: -Install barriers to block fish movement into Old River	<u>2</u>	_____
-Install barriers to keep fish in Sacramento River	<u>2</u>	_____
-Install barriers to divert fish from Sacramento River to western distributaries	<u>3</u>	_____
-Operate fish barrier on San Joaquin River at Merced River confluence in fall	<u>2</u>	_____
-Provide instream pulse flows for fish passage	<u>4</u>	_____
-Provide instream flows for fish attraction	<u>3</u>	_____
Improvement of Fish Salvage Operations	<u>2</u>	_____
Actions: -Improve design of salvage facilities	<u>3</u>	_____
-Improve operation of salvage facilities	<u>3</u>	_____
-Improve fish hauling and release procedures	<u>2</u>	_____
Removal and Control of Aquatic Predators	<u>4</u>	_____
Actions: -Harvest predators at Delta export pumps	<u>3</u>	_____
-Harvest predators in upstream habitats	<u>4</u>	_____

**Action Categories to Manage the Enhancement of Anadromous Fish Populations**

Fish Hatchery Operations	<u>3</u>	_____
Actions: -Expand hatchery capacities	<u>4</u>	_____
-Construct new hatcheries on the San Joaquin River	<u>3</u>	_____
-Improve hatchery operations	<u>3</u>	_____

	Importance 1-5	Core Action C
-Reduce hatchery effects on wild fish populations	<u>2</u>	—
-Implement tagging of hatchery-bred fish	<u>3</u>	—
-Establish new captive breeding programs	<u>3</u>	—
<b>Fish Harvest Management</b>	<u>3</u>	—
Actions: -Improve regulation of commercial take	<u>3</u>	—
-Improve regulation of recreational take	<u>2</u>	—
-Improve enforcement of harvest regulations	<u>2</u>	—

**Action Categories for Reducing Reliance on Delta Exports**

<b>Desalination</b>	<u>2</u>	—
Actions: -Expand desalination of Southern California supplies	<u>2</u>	—
-Expand desalination of San Joaquin Valley supplies	<u>2</u>	—
-Improve desalination technologies and cost	<u>3</u>	—
-Educate users about desalination feasibility	<u>2</u>	—
<b>Water Conservation</b>	<u>5</u>	C
Actions: -Increase use of district-wide conservation practices	<u>4</u>	—
-Increase use of on-farm conservation practices	<u>4</u>	—
-Increase use of municipal conservation practices	<u>5</u>	—
-Increase use of industrial conservation practices	<u>4</u>	—
-Implement financial incentive policies	<u>4</u>	—
-Implement conservation-oriented rate structures	<u>5</u>	—
-Educate users about conservation technologies	<u>5</u>	—
<b>Water Reclamation</b>	<u>5</u>	C
Actions: -Recharge groundwater with reclaimed water	<u>5</u>	—
-Use reclaimed water for agricultural irrigation	<u>5</u>	—
Reclaim saline agricultural drainage water	<u>3</u>	—
-Recycle and treat water for potable reuse	<u>3</u>	—
-Use reclaimed water for nonpotable urban uses	<u>5</u>	—
-Use reclaimed water for landscape irrigation	<u>5</u>	—
-Use reclaimed water for power plant cooling	<u>2</u>	—
-Use reclaimed water for industrial processes	<u>5</u>	—
-Use reclaimed water to repel salinity intrusion	<u>4</u>	—
-Improve reclamation technologies and cost	<u>4</u>	—
-Educate public about water reclamation	<u>5</u>	—

	Importance 1-5	Core Action C
Land Retirement and Fallowing	<u>1</u>	<u>   </u>
Actions:		
-Encourage land fallowing during drought periods	<u>1</u>	<u>   </u>
-Develop incentive programs for land retirement	<u>1</u>	<u>   </u>
-Purchase lands or easements	<u>1</u>	<u>   </u>
-Retire lands with drainage problems	<u>1</u>	<u>   </u>

Water Pricing	<u>4</u>	<u>C</u>
Actions:		
-Establish incentives for pricing to reduce demand	<u>3</u>	<u>   </u>
-Educate users about pricing feasibility	<u>4</u>	<u>   </u>
-Remove legal obstacles to pricing incentive programs	<u>3</u>	<u>   </u>

### Action Categories to Enhance Water Supplies

Watershed Management	<u>3</u>	<u>C</u>
Actions:		
-Manage vegetation cover to increase yield	<u>3</u>	<u>   </u>
-Manage riparian zones to protect water quality	<u>3</u>	<u>   </u>
-Manage land uses to reduce sedimentation	<u>3</u>	<u>   </u>
-Modify weather to increase precipitation	<u>2</u>	<u>   </u>

New or Expanded Onstream Storage	<u>4</u>	<u>C</u>
Actions:		
-Construct new storage facilities south of the Delta	<u>5</u>	<u>   </u>
-Construct new storage facilities north of the Delta	<u>4</u>	<u>   </u>
-Enlarge existing onstream storage reservoirs	<u>3</u>	<u>   </u>
-Modify operations of existing onstream reservoirs	<u>3</u>	<u>   </u>

New or Expanded Offstream Storage	<u>5</u>	<u>C</u>
Actions:		
-Construct new storage facilities south of the Delta	<u>5</u>	<u>   </u>
-Construct new storage facilities north of the Delta	<u>4</u>	<u>   </u>
-Construct new storage facilities in Delta	<u>3</u>	<u>   </u>
-Enlarge existing offstream storage reservoirs	<u>3</u>	<u>   </u>
-Modify operations of existing offstream reservoirs	<u>3</u>	<u>   </u>

Groundwater Banking and Conjunctive Use	<u>3</u>	<u>   </u>
Actions:		
-Establish incentives for conjunctive use	<u>3</u>	<u>   </u>
-Modify Water Code to encourage conjunctive use	<u>3</u>	<u>   </u>
-Establish conjunctive use programs	<u>4</u>	<u>   </u>

	Importance 1 - 5	Core Action C
-Store groundwater south of the Delta	<u>5</u>	—
-Store groundwater north of the Delta	<u>4</u>	—
Implement techniques to increase groundwater recharge	<u>4</u>	—
<b>Improvement of Through-Delta Conveyance</b>	<u>4</u>	<u>C</u>
<b>Actions:</b>		
-Increase capacities of existing east-side channels	<u>4</u>	—
-Increase flows from the Sacramento River to the central Delta	<u>4</u>	—
-Modify Delta levees to increase flow cross sections	<u>4</u>	—
-Construct pump/siphon systems between Delta channels	<u>3</u>	—
-Expand existing intakes at the Delta export facilities	<u>3</u>	—
-Construct expanded export intake/forebay pumping system	<u>4</u>	—
<b>Construction and Improvement of Conveyance Facilities</b>	<u>4</u>	—
<b>Actions:</b>		
-Construct east-side isolated transfer system	<u>5</u>	—
-Construct west-side isolated transfer system	<u>3</u>	—
-Construct small isolated transfer facility	<u>2</u>	—
-Convert Delta islands to storage/conveyance system	<u>2</u>	—
-Construct conveyance to offstream storage	<u>3</u>	—
-Construct conveyance to groundwater storage	<u>3</u>	—
<b>Changes in Locations of Diversions</b>	<u>3</u>	—
<b>Actions:</b>		
-Relocate Delta export pumps from key habitats	<u>3</u>	—
-Relocate other in-Delta diversions for more reliable supplies	<u>3</u>	—
-Consolidate in-Delta agricultural diversions	<u>2</u>	—
-Relocate upstream diversions from key habitats	<u>2</u>	—
-Improve diversion designs when relocating	<u>3</u>	—
<b>Action Categories to Increase Supply Predictability</b>		
<b>Water Transfers</b>	<u>5</u>	<u>C</u>
<b>Actions:</b>		
-Modify Water Code to ease transfers	<u>5</u>	—
-Improve procedures for transfer permitting	<u>4</u>	—
-Coordinate diversion and conveyance of transfers	<u>4</u>	—

	Importance 1 - 5	Core Action C
Long-Term Planning for Drought Contingencies	<u>5</u>	<u>C</u>
Actions:		
-Increase water storage capacities at user locations	<u>4</u>	---
-Establish incentives for long-term planning	<u>4</u>	---
-Conduct Integrated Resources Planning	<u>5</u>	---
-Establish incentives for long-term conservation	<u>4</u>	---
-Develop alternate supplies for drought situations	<u>5</u>	---
Water Resources Data and Information Management	<u>3</u>	---
Actions:		
-Establish a comprehensive water data system	<u>4</u>	---
-Implement real-time data management system	<u>4</u>	---
-Integrate data for adaptive management decisions	<u>4</u>	---
-Establish accessible data management system	<u>4</u>	---
Establishment of Institution for Integrated Long-Term Water Management	<u>5</u>	<u>C</u>
Actions:		
-Establish long-term guarantees for management	<u>4</u>	---
-Establish institution to implement guarantees	<u>3</u>	---
-Coordinate multiagency roles in management	<u>4</u>	---
-Coordinate groundwater and surface water management	<u>5</u>	---
-Establish incentives for cooperation/coordination	<u>4</u>	---
-Establish a public awareness and education program	<u>5</u>	---
Establishment of Export Capacity Market	<u>3</u>	---
Actions:		
-Establish procedures for allocation of export capacity	<u>3</u>	---
-Establish institution to allocate export capacity	<u>3</u>	---
-Coordinate water transfers and export capacity	<u>4</u>	---
-Market export capacity for environmental benefits	<u>3</u>	---
Integration of Land Use and Water Supply Planning	<u>2</u>	---
Actions:		
-Coordinate land uses with water supplies	<u>2</u>	---
-Encourage local determination of supplies available	<u>3</u>	---
-Encourage local assessment of water supply reliability	<u>2</u>	---

Core  
Importance Action  
1-5 C

**Action Categories for Managing Water Quality**

Installation and Operation of Flow Barriers	<u>3</u>	___
Actions: -Install flow barriers to manage south Delta quality	<u>3</u>	___
-Install weirs to control salinity intrusion	<u>3</u>	___
Management of Agricultural Drainage	<u>2</u>	___
Actions: -Implement source control regulations for pollutants	<u>1</u>	___
-Implement pollutant-load limits in San Joaquin River	<u>3</u>	___
-Reduce or control volume of agricultural discharges	<u>3</u>	___
-Modify cropping and irrigation practices	<u>2</u>	___
-Export agricultural drainage to other watersheds	<u>2</u>	___
-Retire lands with drainage disposal problems	<u>2</u>	___
-Improve pest-control practices	<u>3</u>	___
-Avoid use of high-salinity irrigation water	<u>3</u>	___
-Manage irrigation tailwater to reduce pesticides	<u>2</u>	___
-Manage drainage timing to reduce instream impacts	___	___
-Treat drainage to remove salt or other pollutants	<u>2</u>	___
-Dilute pollutants in Delta inflows from SJR using stored water	<u>2</u>	___
Management of Urban/Industrial Drainage and Wastewater Discharge	<u>3</u>	___
Actions: -Retain and manage stormwater runoff	<u>2</u>	___
-Implement urban awareness/education programs	<u>3</u>	___
-Treat discharges to remove problem constituents	<u>2</u>	___
-Construct wetlands to treat wastewater effluent	<u>3</u>	___
-Increase key nutrient inputs to estuary	<u>3</u>	___
-Enforce wastewater discharge requirements	<u>2</u>	___
-Prevent toxic discharges from industrial plants	<u>4</u>	___
Dredged Material Management	<u>2</u>	___
Actions: -Limit dredging to slack tides	<u>3</u>	___
-Limit dredging to avoid fish migration periods	<u>3</u>	___
-Use techniques to localize sediment movement	<u>3</u>	___
-Dispose dredged materials at nonaquatic or other suitable sites	<u>2</u>	___
-Remove contaminated sediments in critical habitat sites	<u>3</u>	___
-Ensure material used for levee maintenance is noncontaminated	<u>4</u>	___

	Importance 1 - 5	Core Action C
Management of Abandoned-Mine Drainage	<u>2</u>	—
Actions:		
-Manage discharges from abandoned mines	<u>3</u>	—
-Remediate abandoned mining sites discharging pollutants	<u>2</u>	—

**Action Categories for Improving System Reliability**

Levee Maintenance and Stabilization	<u>4</u>	<u>C</u>
Actions:		
-Maintain and stabilize existing levees	<u>4</u>	—
-Modify agricultural practices to reduce subsidence	<u>3</u>	—
-Use infilling to correct past subsidence	<u>4</u>	—
-Implement uniform maintenance standards	<u>3</u>	—
-Provide funding for maintenance and stabilization	<u>3</u>	—
Improvement of Flood Protection Levels and Seismic Stabilities	<u>3</u>	—
Actions:		
-Reconstruct levees to higher design standards	<u>3</u>	—
-Reconstruct levees to higher seismic standards	<u>2</u>	—
-Relocate levees to more stable sites	<u>2</u>	—
-Widen floodways to increase flood conveyance	<u>3</u>	—
-Establish and manage flood overflow areas	<u>3</u>	—
Rerouting and Protection of Infrastructure from Flooding and Seismic Risk	<u>2</u>	—
Actions:		
-Maintain/reconstruct levees around infrastructure	<u>2</u>	—
-Reconstruct infrastructure to increase reliability	<u>3</u>	—
-Relocate/reroute infrastructure	<u>2</u>	—
Establishment of Long-Term Funding Mechanisms	<u>4</u>	<u>C</u>
Actions:		
-Establish a disaster contingency funding program	<u>2</u>	—
-Establish a Bay-Delta financing authority	<u>2</u>	—
-Provide low-cost debt financing for local agencies	<u>3</u>	—
-Establish a bond financing mechanism	<u>4</u>	—
-Establish a statewide water utility surcharge	<u>2</u>	—

