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List of Action Categories and Actions

Comments on Action Categories and Actions

Fax return by January 10, 1996 to (916) 654-9780
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Name: CAFF

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

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

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

Action Categories to Restore Upstream Habitat

Restoration of Upstream Anadromous Fish Habitat	<u>4</u>	_____
Actions:		
-Manage flows and temperatures in upstream habitats	_____	_____
-Restore and replenish spawning gravels	_____	_____
-Restore channel configurations	_____	_____
-Restore shoreline habitat conditions	_____	_____
-Modify gravel mining practices	_____	_____
-Improve floodway drainage to reduce fish stranding	_____	_____

Improvements for Upstream Fish Passage	<u>2</u>	_____
Actions:		
-Modify passage at upstream dams and other barriers	_____	_____
-Modify natural barriers to improve passage	_____	_____

Restoration of Upstream Riparian Habitat	<u>4</u>	_____
Actions:		
-Restrict livestock grazing in riparian corridors	_____	_____
-Revegetate degraded riparian habitats	_____	_____
-Protect riparian lands through purchase/easements	_____	_____
-Restore flows to dewatered riparian habitats	_____	_____

Restoration of Upstream Wetland Habitat	<u>4</u>	_____
Actions:		
-Modify floodways to support wetland habitats	_____	_____
-Reuse agricultural drainage to create wetlands	_____	_____
-Reuse urban wastewater effluent to create wetlands	_____	_____
-Manage groundwater recharge for wetland habitat	_____	_____

Core
Importance Action
1 - 5 C

Action Categories to Reduce Effects of Diversions

Delta Inflow/Outflow/Export Management 2 _____

Actions regarding Delta Inflows:

- Modify upstream consumptive use _____
- Modify upstream reservoir operations criteria _____
- Modify Delta inflow timing pattern _____
- Provide instream pulse flows for fish passage _____
- Provide instream flows for fish attraction _____

Actions regarding Delta Diversions and Outflows:

- Modify volumes and timing of exports _____
- Modify in-Delta consumptive use _____
- Modify central Delta channel operations _____
- Modify export operations criteria _____
- Establish a Delta watermaster to manage flows _____
- Use real-time monitoring and adaptive management _____

Modification of Diversion Timing Patterns 2 _____

Actions:

- Modify diversion timing of in-Delta diversions _____
- Modify diversion timing of export diversions _____
- Coordinate SWP/CVP diversion timing _____
- Modify diversion timing through Montezuma Salinity Control Gate _____
- Use real-time monitoring and adaptive management _____

Increased Rates of Diversion Capacity 1 _____

Actions:

- Obtain approvals for expanded export capacities _____
- Enlarge export pumping capacities _____
- Increase diversion capability at Red Bluff Diversion Dam _____

Acquisition of Long-Term Water Supplies for Fish and Wildlife 2 _____

Actions:

- Acquire water to augment instream flows _____
- Obtain shifts in timing of instream flows _____
- Obtain shifts in diversion timing patterns _____

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

	Importance 1 - 5	Core Action C
-Reduce hatchery effects on wild fish populations	___	___
-Implement tagging of hatchery-bred fish	___	___
-Establish new captive breeding programs	___	___
Fish Harvest Management	<u>2</u>	___
Actions: -Improve regulation of commercial take	___	___
-Improve regulation of recreational take	___	___
-Improve enforcement of harvest regulations	___	___
Action Categories for Reducing Reliance on Delta Exports		
Desalination	<u>1</u>	___
Actions: -Expand desalination of Southern California supplies	___	___
-Expand desalination of San Joaquin Valley supplies	___	___
-Improve desalination technologies and cost	___	___
-Educate users about desalination feasibility	___	___
Water Conservation	<u>4</u>	___
Actions: -Increase use of district-wide conservation practices	___	___
-Increase use of on-farm conservation practices	___	___
-Increase use of municipal conservation practices	___	___
-Increase use of industrial conservation practices	___	___
-Implement financial incentive policies	___	___
-Implement conservation-oriented rate structures	___	___
-Educate users about conservation technologies	___	___
Water Reclamation	<u>4</u>	___
Actions: -Recharge groundwater with reclaimed water	___	___
-Use reclaimed water for agricultural irrigation	___	___
Reclaim saline agricultural drainage water	___	___
-Recycle and treat water for potable reuse	___	___
-Use reclaimed water for nonpotable urban uses	___	___
-Use reclaimed water for landscape irrigation	___	___
-Use reclaimed water for power plant cooling	___	___
-Use reclaimed water for industrial processes	___	___
-Use reclaimed water to repel salinity intrusion	___	___
-Improve reclamation technologies and cost	___	___
-Educate public about water reclamation	___	___

	Importance 1 - 5	Core Action C
Land Retirement and Fallowing	<u>2</u>	_____
Actions:		
-Encourage land fallowing during drought periods	_____	_____
-Develop incentive programs for land retirement	_____	_____
-Purchase lands or easements	_____	_____
-Retire lands with drainage problems	_____	_____
Water Pricing	<u>3</u>	_____
Actions:		
Establish incentives for pricing to reduce demand	_____	_____
-Educate users about pricing feasibility	_____	_____
-Remove legal obstacles to pricing incentive programs	_____	_____
Action Categories to Enhance Water Supplies		
Watershed Management	<u>5</u>	<u>C</u>
Actions:		
-Manage vegetation cover to increase yield	_____	_____
-Manage riparian zones to protect water quality	_____	_____
-Manage land uses to reduce sedimentation	_____	_____
-Modify weather to increase precipitation	<u>1</u>	_____
New or Expanded Onstream Storage	<u>1</u>	_____
Actions:		
-Construct new storage facilities south of the Delta	_____	_____
-Construct new storage facilities north of the Delta	_____	_____
-Enlarge existing onstream storage reservoirs	_____	_____
-Modify operations of existing onstream reservoirs	_____	_____
New or Expanded Offstream Storage	<u>2</u>	_____
Actions:		
-Construct new storage facilities south of the Delta	_____	_____
-Construct new storage facilities north of the Delta	_____	_____
Construct new storage facilities in Delta	_____	_____
-Enlarge existing offstream storage reservoirs	_____	_____
-Modify operations of existing offstream reservoirs	_____	_____
Groundwater Banking and Conjunctive Use	<u>4</u>	_____
Actions:		
-Establish incentives for conjunctive use	_____	_____
-Modify Water Code to encourage conjunctive use	_____	_____
-Establish conjunctive use programs	_____	_____

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

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

Core
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Action Categories for Managing Water Quality

Installation and Operation of Flow Barriers

- Actions: -Install flow barriers to manage south Delta quality
- Install weirs to control salinity intrusion

Management of Agricultural Drainage

- Actions: -Implement source control regulations for pollutants
- Implement pollutant-load limits in San Joaquin River
- Reduce or control volume of agricultural discharges
- Modify cropping and irrigation practices
- ~~-Export agricultural drainage to other watersheds~~
- Retire lands with drainage disposal problems
- Improve pest-control practices
- Avoid use of high-salinity irrigation water
- Manage irrigation tailwater to reduce pesticides
- Manage drainage timing to reduce instream impacts
- Treat drainage to remove salt or other pollutants
- Dilute pollutants in Delta inflows from SJR using stored water

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Management of Urban/Industrial Drainage and Wastewater Discharge

- Actions: -Retain and manage stormwater runoff
- Implement urban awareness/education programs
- Treat discharges to remove problem constituents
- Construct wetlands to treat wastewater effluent
- Increase key nutrient inputs to estuary
- Enforce wastewater discharge requirements
- Prevent toxic discharges from industrial plants

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Dredged Material Management

- Actions: -Limit dredging to slack tides
- Limit dredging to avoid fish migration periods
- Use techniques to localize sediment movement
- Dispose dredged materials at nonaquatic or other suitable sites
- Remove contaminated sediments in critical habitat sites
- Ensure material used for levee maintenance is noncontaminated

Treat all of p. 12 as zeros on this one

NO COMMENTS P. 12