

Table 4. Assessment Variables Affected by Potential CALFED Bay-Delta Program Actions: Estuarine Community

CALFED Programs and Components	Cause of Variability	Affected Assessment Variable	
		Primary	Secondary
Conveyance	Change in channel flow due to change in point of diversion and change in reservoir operations due to changes in Delta diversion timing and volume	Delta flow	Temperature, estuarine salinity, sediment movement, diversion impacts, barriers, habitat, water quality, species interaction
Storage	Change in reservoir operations due to changes in available storage volume and locations and change in channel flow due to changes in points of storage diversion or discharge (e.g., in-Delta storage)	Delta flow	Temperature, estuarine salinity, sediment movement, diversion impacts, barriers, habitat, water quality, species interaction
Water Use Efficiency	Change in reservoir operations due to changes in urban and agricultural water demand	Delta flow	Temperature, estuarine salinity, sediment movement, diversion impacts, barriers, habitat, water quality, species interaction
Water Quality Improvements	Change in reservoir operations to provide water to dilute pollutant concentrations	Delta flow	Temperature, estuarine salinity, sediment movement, diversion impacts, barriers, habitat, fishing, species interaction
	Reduction of discharges of water quality constituents of concern to aquatic habitats and water users, in addition to change in reservoir operations to provide adequate water to dilute pollutant concentrations	Water quality	Temperature, estuarine salinity, habitat, species interaction

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CALFED Programs and Components	Cause of Variability	Affected Assessment Variable	
		Primary	Secondary
Ecosystem Restoration	Change in reservoir operations to provide environmental water	Delta flow	--
	Riparian habitat restoration that may provide shade, in addition to change in reservoir operations to provide environmental water	Temperature	--
	Construction and restoration of habitat, in addition to change in reservoir operations to provide environmental water	Sediment movement	--
	Improvement or installation of fish screens at water diversion facilities, in addition to change in reservoir operations to provide environmental water	Diversion impacts	--
	Modification of barriers that restrict fish passage and migration, in addition to change in reservoir operations to provide environmental water	Barriers	--
	Protection, enhancement, and restoration of physical habitat, in addition to change in reservoir operations to provide environmental water	Habitat	--
	See "Water Quality Improvements"	Water quality	--
	Improvement of data management for fish harvest regulation	Fishing	--

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CALFED Programs and Components	Cause of Variability	Affected Assessment Variable	
		Primary	Secondary
Ecosystem Restoration	Management of fish hatchery production	Artificial production	--
	Control of introduced species, in addition to protection, enhancement, and restoration of physical habitat and change in reservoir operations to provide environmental water	Species interaction	--
Levee System Integrity	Implementation and development of the Delta Long-Term Levee Protection Plan, including levee maintenance and improvements	Sediment movement	Water quality, species interaction
	Incorporation of aquatic habitat restoration and enhancement in levee maintenance and improvement plans	Habitat	Temperature, sediment movement, species interaction

Notes:

-- = not relevant.

A primary assessment variable is directly affected by a CALFED action that may be included in one of the programs and components.

A secondary assessment variable is indirectly affected by CALFED actions and changes in response to primary variables.