

**CALFED Science Program
2009 Proposal Solicitation Package**

**Summary of Public Comments on *Draft* Priority Research Topics
Received Through 11/14/08**

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1) General Comments/Suggestions

- **Study animal behavior, migration, and navigation**
- **Conjunctive use and groundwater components within a larger-scale examination of the hydrologic cycle**
- **Consider semi-aquatic ecosystems like riparian zones**
- **Effective evaluation and monitoring of restoration projects**
- **Don't make research topic areas specific only to the California Bay-Delta**
- **Retrospective analyses as tools for ecosystem understanding**
- **Landscape structure and ecosystem functions/habitat quality**
- **Linking life histories to habitat requirements**
- **Fluxes of gases into and out of Delta ecosystems**
- **Sediment dynamics in the functioning of ecosystems**
- **Management topics such as impacts of water operations, recovery trajectories for listed species, and endocrine disruptors**

2) Comments/Suggestions Linked to Draft Topics 1-5

Draft Topic 1 (Ecosystem Responses to Climate Change)

- **Climate-sensitive species and ecological functions**
- **Dependencies of species on agricultural landscapes**
- **Ecosystem services and sustainable ecosystems**
- **“Climate Change” or “Environmental Change”**
- **Adaptation planning for climate change impacts**
- **Climate change effects on sediment dynamics**

Draft Topic 2 (Invasive Non-native Aquatic Species)

- **Salinity tolerance assessment for native and non-native species**
- **Peripheral canal effects on non-native species**
- **Develop a comprehensive aquatic/riparian plant management strategy**
- **Include more marine invasive species**
- **Consider riparian non-native species**

Draft Topic 3 (Food Webs and Water Quality)

- **Analysis and communication of public health risks from changing water quality and water management**
- **Effect of endocrine disruptors on fish reproduction**
- **Wastewater treatment plant effluent and ecosystem impacts**
- **Biogeochemistry of marshes and wetlands**
- **Genetic structure of key species in aquatic food webs**

Draft Topic 4 (Coupled Hydrologic and Ecosystem Models)

- **Review, test, compare, calibrate, and parameterize hydrodynamic models of the Bay/Delta**
- **Develop conceptual ecosystem models into quantitative models**
- **Modeling future scenarios with coupled hydrodynamic models and ecosystem models**
- **Replacement of the X2 standard through creating shallow floodplain habitat**
- **Pattern/structure of variable salinity regimes to favor native species**
- **Include terrestrial and floodplain ecosystem models**

Draft Topic 5 (Water and Ecosystem Management Decision Support System (DSS) Development)

- **GIS visualization for key issues linked to DSSs**
- **Analyses and visualization of linked hydrological processes and ecological processes**
- **Improve overall watershed management (include uplands and floodplains)**
- **Employ a more integrated approach that includes developing needed scientific information and suites of methods including DSSs**