

Curriculum Vitae
Caitlin Bean

Work Address:

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EDUCATION:

- 2003-2005 **PhD, Miami University**, Oxford, Ohio
Major: Ecology. (Incomplete)
- 2003 **M.S., San Jose State University**, San Jose, California.
Major: Environmental Studies. Thesis: An Assessment of the Endangerment Status of the Santa Cruz kangaroo rat (*Dipodomys venustus venustus*)
- 1985 **B.A., University of California**, Santa Cruz, California.
Major: Environmental Studies (received program honors and thesis honors).
Thesis: Implications of Five Invasive Plant Species on Nature Conservancy Preserves and Potential Management Scenarios.

PROFESSIONAL HISTORY:

**9/16/2010 to current: Senior Environmental Scientist, California Dept. of Fish and Wildlife
Northern Region, Yreka Fisheries Program**

Coho Salmon Recovery Coordinator. Develop coho salmon habitat restoration and research projects concepts, conduct research, analyze data, and prepare reports. Review and monitor the implementation of instream habitat restoration plans to assure the protection, restoration and enhancement of environmental conditions important to anadromous fish and riparian habitat within the Klamath River Watershed, with a special focus on the Scott and Shasta rivers. Review, rank, coordinate, and manage grants, associated with ecosystem research and habitat restoration and improvement projects with a special emphasis on instream flow analyses. Provide input and assistance in the development and implementation of the protective measures and recovery tasks for coho salmon. Serve as a member of the internal CDFW coho recovery team and participate in the State Coho Recovery Team; make presentations, conduct research, review reports, fulfill assignments from the Fisheries Branch. Serve as a technical editor for reports produced by Yreka Fisheries. Represent the Department in conducting complex negotiations. Lead interagency coordination efforts. Provide technical assistance to other Department programs. Represent the Department to various public organizations, watershed organizations, and community groups.

2/05/05 – 9/16/10: Senior Environmental Scientist, California Dept. of Fish and Game Wildlife Northern Region, Habitat Conservation Program

Coho Salmon Recovery Coordinator. Negotiated and coordinated the development of two watershed-wide permitting programs intended to implement key coho recovery tasks while bringing agricultural diverters into compliance with the California Endangered Species Act and Section 1602 of the Fish and Game Code. Coordinated the preparation of two very complex Environmental Impact Reports prepared to bring the permitting programs into compliance with California Environmental Quality Act (CEQA). Lead interagency coordination efforts with State Water Resources Control Board, North Coast Regional Water Quality Control Board, and Department of Water Resources. Conducted outreach efforts to develop support and understanding for the permitting programs. Reviewed Fisheries Restoration Grant Program proposals to assess consistency with the Recovery Strategy for California Coho Salmon (2004) and the proposed permitting programs and managed grant agreements for activities associated with permit program implementation. Coordinated workshops to enhance salmonid habitat restoration skills for local restoration practitioners. Coordinated efforts to develop policy related to instream flows and bypass standards for surface water diversions.

5/15/04 – 1/15/05: Research Assistant, Miami University, Zoology Department, Oxford, OH 45056

Biodiversity Lab – Research Assistant. Collected field data on the distribution of butterfly biodiversity in remnant prairie patches in hardwood forest in Ohio. Analyzed environmental parameters affecting butterfly distribution including plant species biodiversity, soils, slope, aspect, patch size, and distance to neighboring patches. Reviewed literature and collected published data sets for a meta-analysis looking at additive partitioning of diversity. Conducted the preliminary analyses of beta diversity and ran species-area regressions to determine the coefficient of variation for the increase in species richness with habitat area.

8/15/03–5/15/04: Research Assistant, Miami University Zoology Department, Oxford, OH 45056

Genetics Lab – Research Assistant. Developed a protocol for using polyacrylamide gels to assess microsatellite variation in populations of deer mice (*Peromyscus maniculatus*) and white footed mice (*Peromyscus leucopus*). Isolated DNA and used the polymerase chain reaction (PCR) technique to amplify microsatellites. Optimized PCR conditions for eight microsatellite primers and employed electrophoresis methods to assess genetic variation using both agarose and polyacrylamide gels.

10/05/01–8/01/03: Senior Environmental Scientist, California Coastal Commission 725 Front Street, Santa Cruz, CA 95060

Habitat Conservation Plan (HCP) Coordinator. Coordinated with interagency teams to develop HCPs within the Coastal Zone consistent with Coastal Act policy and the federal and state Endangered Species Acts. Provided biological expertise to staff working on projects with sensitive biological resource issues. Developed guidelines for riparian and non-riparian wetland restoration plans. Analyzed coastal development permit applications involving sensitive biological resources and prepared staff reports.

**10/01/99-10/01/01: Senior Environmental Scientist, Habitat Conservation Planning Branch,
California Dept. of Fish and Wildlife
1416 9th Street, Sacramento, CA 95814**

Natural Communities Conservation Plan Implementation. Coordinated the Department's conservation plan implementation efforts statewide. In collaboration with regional conservation planning teams, developed policy guidance to address issues related to biological monitoring and adaptive management. Coordinated biological research activities associated with the development and implementation of conservation plans. In addition, developed conservation banking policies and reviewed conservation bank agreements to ensure that they were complete, accurate and consistent with Department policy and state and federal laws.

**4/01/93- 9/30/99: Environmental Specialist III, California Dept. of Fish and Wildlife
P. O. Box 49, Yountville, CA 94599**

California Endangered Species Act Coordination and Bioregional Conservation Planning. Analyzed development projects affecting special-status species and their habitats; reviewed permit applications to the Army Corps of Engineers pursuant to Section 404 of the Clean Water Act; coordinated regional environmental review of proposed projects; prepared impact analyses and comment letters consistent with environmental laws and Department policies. Developed mitigation guidelines, negotiated and prepared "take" permits, and conducted compliance monitoring to assure the long-term preservation of special-status species. Conducted outreach activities to educate city and county planning departments about the benefits of adopting protective standards for sensitive biological resources through the CEQA process. Participated in inter-agency teams to develop comprehensive multi-species conservation plans in areas around the San Francisco Bay and developed survey protocols and monitoring methods for special-status species within the Central Coast region.

1991 - 1993: Biologist/Project Manager, Western Ecological Services Co.

1989 -1991: Biologist/Project Manager, Harding Lawson Associates

1985 - 1992: Biologist/Technician, Leitner Biological Consulting

The following duties were performed at each of the three positions listed above:

Comprehensive Biological Assessments. Conducted field surveys and recorded baseline biological conditions, determined potential biological and regulatory constraints on sites throughout California, prescribed mitigations, prepared reports and maps.

Wetlands Assessment and Permitting. Using the three-parameter US Army Corps criteria, determined the extent of wetland areas potentially subject to Corps jurisdiction and California Department of Fish and Wildlife regulation on properties throughout northern California.

Rare Plant Surveys. Prepared comprehensive inventories of plant communities including species lists and vegetation mapping, classification, and quantification.

Administrative Duties. Managed projects, prepared proposals, monitored budgets, facilitated meetings, trained and managed technician level staff, and provided peer review of documents. Worked in the cartography lab on an as needed basis.