

John R. Cain Jr.

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EDUCATION

University of California, Berkeley.

M.L.A Environmental Planning, May 1997

- Specialized in the field of river restoration with course work in hydrology, geomorphology, and riparian and aquatic ecology.
- Thesis research focused on the hydrologic and geomorphic changes below Friant dam and the implications of those changes for restoration of Chinook salmon.

B.A. Geography, May 1988

EMPLOYMENT

The Natural Heritage Institute, San Francisco, CA 8/97 to present

Restoration Program Director: Developed NHI's restoration program and obtained funding to sustain it. Supervised up to three staff scientists engaged in developing, analyzing, planning and promoting wetland and watershed restoration projects in the Bay-Delta region. Successfully created partnerships between state and local organizations and obtained over \$40 million in private and government grants to fund project planning and implementation.

- Researched restoration, water supply, and flood management strategies for the Central Valley and Delta. Initiated new projects to improve flood management water supply flexibility, and ecosystem health in the Central Valley and Delta.
- Co-chair three key workgroups – Habitat Restoration Technical Team, the Habitat Water Operations Technical Team, and the Integration Team - charged with developing the Bay Delta Conservation Plan.
- Served leadership role on Governor's Delta Vision stakeholder committee.
- Co-chair of the UC Berkeley Delta Initiative.
- Served as a consulting expert to NRDC in litigation to restore the San Joaquin River. Assisted testifying experts in the development of a detailed an integrated restoration plan for 160 miles of river specifying the flow regime and channel modifications necessary to restore an anadromous fishery.
- Developed environmental flow regimes for Cache Creek and the Sacramento, Feather, Sacramento, San Joaquin, Stanislaus, Tuolumne, and Merced Rivers.
- Initiated, developed, negotiated, and successfully obtained \$30 million to acquire and plan the 1,200 acre Dutch Slough Tidal Marsh Restoration Project.
- Initiated and shaped diverse stakeholder collaboration that led to the development of the CALFED Strategic Plan for Ecosystem Restoration.

The Nature Conservancy, San Francisco, CA 10/96 to 9/97

Aquatic Species Conservation Planner: Developed aquatic species conservation plans for the San Joaquin Valley and the Sacramento/San Joaquin Delta.

University of California, Berkeley 1/95 – Present

Graduate Student Instructor and Guest Lecturer: Periodically provide guest lectures in environmental science and application of stream restoration. Lectured, led discussion sections, and developed curriculum for undergraduate environmental science classes.

Mono Lake Committee, Lee Vining, CA 1/91 - 9/94.

Science Associate: Collaborated with numerous research scientists on a variety of technical reports to identify environmental water requirements necessary to restore riparian forests, lacustrine wetland, salmonid populations, and the aquatic productivity of Mono Lake. Served as a member of the Restoration Technical Committee, overseeing the restoration of Rush and Lee Vining Creeks. Provided technical assistance to legal team during over 100 days of evidentiary hearings, before the Superior Court and the California State Water Resources Control Board, regarding the ecological water requirements of Mono Lake and its tributaries.

National Wildlife Federation, Washington D.C. 1/90 – 1/91

Conservation Intern: Reviewed environmental documents on the hydrologic and environmental impacts of irrigated agriculture and hydro-electric power generation on the rivers of the Western United States, particularly Glen Canyon Dam on the Colorado River and the Central Valley Project in California. Analyzed and lobbied for proposed legislative reforms that eventually resulted in the Central Valley Project Improvement Act and the Glen Canyon Protection Act.

SELECTED PUBLICATIONS

- Cain, J.R., Monahan, C. 2008. Developing Ecological Flow Regimes for the Sacramento and Feather Rivers (Draft). The Natural Heritage Institute. San Francisco, CA. 92 pp.
- Cain, J.R., Kondolf G.M., and Eisenstein. 2007. *ReEnvisioning the Delta: Alternative Futures for the Heart of California*. <http://landscape.ced.berkeley.edu/~delta/>
- Cain, J.R., Kondolf G.M. 2007. *Mixing Model Results, Data, and Common Sense to Develop a Restoration Flow Regime for the San Joaquin River*. American Fisheries Society. Abstract and Presentation.
- Kondolf, G.M., Cain, J.R. 2007. *A Flow Regime to Restore Salmon in the San Joaquin River*. American Fisheries Society Symposium. Abstract and Presentation.
- Cain, J.R., Kondolf G.M. 2007. *Restoring the Lower San Joaquin River: Is it Reasonable*. Salmonid Restoration Federation. Abstract and Presentation.
- Cain, J.R. 2006. Report to the California State Reclamation Board on the Proposed River Islands Permit Application 18018-1 and 18018-2. Prepared for the Natural Resources Defense Council and the Natural Heritage Institute.
- Cain J.R. 2006. Mt. Diablo Creek Watershed Inventory. Prepared for the Contra Costa Resources Conservation District and the Natural Resources Conservation Services.
- Cain, J.R. Cain, J.R. and Walkling R.P. 2005. Conceptual Alternative Report for Reconfiguration of Flooded Delta Islands. Prepared for the Department of Water Resources.
- Cain J.R. and Kondolf, G.M. 2004. *Channel Changes and Bed Mobility of the San Joaquin River Below Friant Dam*. Proceedings of the Calfed Bay Delta Program.

- Cain, J.R. 2004. Dutch Slough Tidal Marsh Restoration: Opportunities and Constraints Report. The Natural Heritage Institute. San Francisco, CA 34 pp.
- Cain, J.R., G.A. Thomas, D. Purkey. 2003. *Enhancing Natural Values in the Cache Creek Watershed within a Water Supply Augmentation Program*. Submitted to the Yolo County Flood Control and Water Conservation District. The Natural Heritage Institute. Berkeley, CA. 71 pp.
- Cain, J.R., S. Beamish, E. Cheng, R. Walkling. 2003. *Target Ecological Flows in the San Joaquin River Basin*. The Natural Heritage Institute. Berkeley, CA. 89 pp.
- Cain, J.R., R. Walkling, E. Cutter. 2003. *Geomorphic Flows through Reservoir Reoperation in the San Joaquin Basin, CA*. The Natural Heritage Institute. Berkeley, CA. 27 pp.
- Cain, J.R., J. Robbins, S. Beamish. 2003. The Past and Present Condition of the Marsh Creek Watershed. Natural Heritage Institute. Berkeley, CA. 67 pp.
- Cain, J.R. 2002. *An Historical Geomorphic Analysis of the Carman Creek Watershed, Middle Fork of the Feather River Basin*. Natural Heritage Institute. Berkeley, CA 82 pp.
- Cain, J.R., A. Dugger, D. Fullerton, D. Purkey, D. Sunding, and G.A. Thomas. 1998. *An Environmentally Optimal Alternative for the Bay Delta*. The Natural Heritage Institute. San Francisco, CA. 112 pp.
- Cain, J. 1997. *Hydrologic and Geomorphic Changes to the San Joaquin River between Friant Dam and Gravelly Ford and Implications for Restoration of Chinook salmon (Oncorhynchus tshawytscha)*. Masters Thesis, U.C. Berkeley. Center for Environmental Design Research. 120 pp.
- Cain, J. *Historical Geomorphic Analysis in Restoration Planning for Cache Creek*. (abstract). Presented to the Council of Educators in Landscape Architecture. Des Moines Iowa, 1995.
- Cain, J. 1991. *Restoration of Rush and Lee Vining Creeks, Mono County, California* (abstract). Presented at the Proceedings of the California Riparian Systems Conference. U.C. Davis Extension.

SELECTED PUBLIC SPEAKING ENGAGEMENTS AND HONORARIUM

- Northern California Flood Control Association. 2009. Integrating The Bay Delta Conservation Plan and the State Plan of Flood Control. Guest Speaker at Annual Meeting.
- Water Education Foundation. 2009. Guest Faculty on Flood Management Tour of the Sacramento Valley and Delta.
- Environmental Defense Fund. 2008. Invited Participant on expert panel reviewing the lessons of Hurricane Katrina and Coastal Louisiana.
- California Colloquium on Water. 2007. University of California Water Resources Archive. *Confluence, Confusion, or Catastrophe: Prospects for a Delta Solution*. Speaker.
<http://www.lib.berkeley.edu/WRC/CCOW.html>
- Developing a Delta Vision: How to Connect the Dots. June 2006. Panelist in session titled *Delta Levees: Can Risks to the Levee System be Overcome, and Should They*.
- Contra Costa Watershed Forum. April, 2006. *Re-envisioning the Delta – Levees, People and our Drinking Water*.
- UC Berkeley Symposium: Re-Envisioning the Delta – The Hub of California’s Future. March, 2006. Organizer and Presenter. Re-envisioning the Delta Symposium at UC Berkeley.
- CALFED Mercury Workshop. 2006-07. One of five expert panelists at two, three-day workshop reviewing CALFED funded research on mercury biogeochemistry and methylation processes.
- California Water Law and Policy, June, 2006. Physical Solutions for California Water Needs – The Environmental Perspective.
- Forum with Michael Krasny, March 2006. *California Levee Threat*. Interviewed in 30-minute live radio broadcast.
- State of the Estuary Conference, 2005. Dutch Slough Tidal Marsh Restoration Project: The Practice of Adaptive Management and the Promise of Restoration.
- CALFED Science Conference, 2004. *Channel Changes and Bed Mobility of the San Joaquin River Below Friant Dam*.
- Metropolitan Water District Video Series. *Turning on the Tap: The Pursuit of Balance in the California Bay-Delta*. June, 2005. One of six water leaders appearing in a 30 minute video taped panel discussion moderated by Tom Philp of the Sacramento Bee.
- Water Education Foundation Video. Appeared in *Delta Warning*.
<http://www.watereducation.org/store/itemdetail.asp?id=324>