



BENEFITS OF BEAVER TO CALIFORNIA & STEWARDSHIP STRATEGIES RESOURCE LIST

Beaver (*Castor canadensis*) are native to California and can be found throughout the state. The following resources describe the important ecosystem services beaver-created habitat provide to humans and other species and how to protect property with non-lethal strategies.

BEAVER ADVOCATES AND ORGANIZATIONS

- **Occidental Arts & Ecology Center WATER Institute**, Kate Lundquist & Brock Dolman (CA) - www.oaec.org/beaver
- **The Beaver Coalition**, Jakob Shockey (OR) – www.beavercoalition.org
- **Beavers Northwest**, Ben Dittbrenner (WA) – www.beaversnw.org/home.html
- **Beavers, Wetlands and Wildlife**, Sharon Brown (NY) – www.beaversww.org
- **The Beaver Institute**, Mike Callahan (MA) - www.beaverinstitute.org/
- **The Grand Canyon Trust**, Mary O'Brien (UT) – www.grandcanyontrust.org/utah-forests
- **The Lands Council Beaver Solution** (WA) – www.landscouncil.org/what-we-do/beaver-solution/
- **Mid Klamath Watershed Council**, Will Harling (CA) - www.mkwc.org/programs/wildlife/beavers/
- **Montana Beaver Working Group**, Sarah Bates (MT) - <https://www.nwf.org/WorkingWithBeavers>
- **Scott River Watershed Council**, Charnna Gilmore (CA) - <https://www.scottriver.org/#!projects/c1vww>
- **The Seventh Generation Institute**, Cathryn Wild (NM) – www.seventh-generation.org/new-page-2
- **Sierra Wildlife Coalition**, Sherry Guzzi (CA, NV) – www.sierrawildlife.org
- **SLO Beaver Brigade**, Audrey Taub (CA) - <http://www.slobeaverbrigade.com/>
- **Worth A Dam**, Heidi Perryman (CA) – www.martinezbeavers.org

BEAVER RESTORATION & NON-LETHAL MANAGEMENT

- **Beaver in California: Creating A Culture of Stewardship** by Kate Lundquist with Brock Dolman, 2018. <https://oaec.org/publications/beaver-in-california/>

- **The Beaver Restoration Assessment Tool (BRAT) for California** – <https://tinyurl.com/brat-ca> and <http://brat.joewheaton.org/>
- **Beaver - Our Watershed Partner** by Lorne Fitch, Cows and Fish, 2016. <http://cowsandfish.org/publications/documents/BeaverOurWatershedPartnerWEB.pdf>
- **The Beaver Restoration Guidebook: A Practitioner's Guide to Working with Beaver to Restore Streams, Wetlands and Floodplains** by Gregory Lewallen, Chris Jordan, Kent Woodruff, Michael Pollock and Janine Castro, 2018. <https://www.fws.gov/oregonfwo/Documents/2018BRGv.2.01.pdf>
- **Beaver Restoration Toolbox: A Collection of Insights, Resources and Expert Contacts to Guide Riparian Restoration Projects that Capitalize on the Engineering Capacity of the North American Beaver** by Karl Malcolm, 2013. <http://oaec.org/wp-content/uploads/2014/10/USFS-Beaver-Restoration-Guide.pdf>
- **Landowners' Guide to Nonlethal Beaver Solutions: How to Help Beavers and Benefit From Them At The Same Time** by Animal Protection of New Mexico, 2012. <https://apnm.org/what-we-do/promoting-coexistence-with-wildlife/beavers-belong/landowners-guide-to-non-lethal-beaver-solutions/>
- **Low-Tech Process-Based Restoration of Riverscapes: Design Manual. Version 1.0** by Wheaton J.M., Bennett S.N., Bouwes, N., Maestas J.D. and Shahverdian S.M. (Editors). 2019. Utah State University Restoration Consortium. Logan, UT. Available at: <http://lowtechpbr.restoration.usu.edu/manual>
- **Report on the Efficacy and Comparative Costs of Using Flow Devices to Resolve Conflicts with North American Beavers along Roadways in the Coastal Plain of Virginia**, submitted by Stephanie L. Boyles, Christopher Newport University, 2006. www.beaversww.org/assets/PDFs/BoylesReport2006-1.pdf
- **Working with Beaver for Better Habitat Naturally** by Sherri Tippie, Wildlife 2000, 2010. <http://digitalcommons.unl.edu/icwdmother/63/>
- **Working with Beaver to Restore Salmon Habitat in the Bridge Creek Intensively Monitored watershed: Design Rationale and Hypotheses** by Pollock, M. M., J. M. Wheaton, N. Bouwes, C. Volk, N. Weber, and C. E. Jordan, 2012. NOAA Technical Memorandum, NMFS–NWFS–120. <http://www.nwfsc.noaa.gov/research/divisions/fe/documents/NMFS-NWFS-120.pdf>

NON-LETHAL BEAVER MANAGEMENT DEVICE INSTALLERS

- Kevin Swift, **Swift Water Design** (CA) - www.swiftwaterdesign.com
- Jakob Shockey, **Beaver State Wildlife Solutions** (OR) – <http://www.beaverstatewildlifesolutions.com/>
- Mike Callahan, **Beaver Solutions** (MA) - www.beaversolutions.com/
- Skip Lisle, **Beaver Deceivers, International** (VT) - www.beaverdeceivers.com/

BEAVER RELOCATION PROGRAMS IN THE WEST

- **The Beaver Advocacy Committee of the South Umpqua Rural Community Partnership**, Leonard and Lois Houston (OR) – <http://surcp.org/committee-bac/>
- **The Lands Council Beaver Solution** (WA) - www.landscouncil.org/what-we-do/beaver-solution/
- **The Methow Beaver Project**, Alexa Whipple (WA) – www.methowsalmon.org/beaverproject.html
- **The Sky Beaver Project** (WA) - <http://www.beaversnw.org/conservation.html>
- **The Tulalip Beaver Project** – Molly Alves (WA) - <https://nr.tulaliptribes.com/Programs/Wildlife/Beaver>
- **Wildlife 2000**, Sherri Tippie (CO) – (303) 935-4995
- **Yakima Beaver Project**, (WA) - <http://midcolumbiafisheries.org/restoration/beaver-restoration/beaver-reintroduction/>

BEAVER ECOLOGY, BENEFITS TO COMMUNITIES, SALMON, BIRDS, WILDFIRE AND CLIMATE CHANGE

- ***Beaver and Climate Change Adaptation in North America: A Simple, Cost-Effective Strategy for the National Forest System*** by WildEarth Guardians, Grand Canyon Trust and Beaver Solutions, 2011. http://pdf.wildearthguardians.org/site/DocServer/Beaver_and_Climate_Change_Final.pdf
- ***Beaver as a Climate Change Adaptation Tool: Concepts and Priority Sites in New Mexico*** by Cathryn Wild, Seventh Generation Institute, 2011. <https://static1.squarespace.com/static/54c6efeb4b05d1a1cc71a3f/t/54d3a9c4e4b04682afea3b39/1423157700638/Beaver+As+a+Climate+Change+Adaptation+Tool++Concepts+and+Priority+Sites+in+New+Mexico.pdf>
- **“Beaver Bank Lodge Use, Distribution and Influence on Salmonid Rearing Habitats in The Smith River, California”** by Marisa Parish (Humboldt State University Thesis 2016) https://smithriveralliance.org/wp-content/uploads/2017/03/Marisa.Parish_2016.pdf
- ***The Beaver, Its Life and Impact*** (second edition), by Dietland Müller-Schwarze, 2011. <http://www.cornellpress.cornell.edu/book/?GCOI=80140100591290>
- ***The Beaver Manifesto*** by Glynnis Hood, 2011. <https://rmbooks.com/book/the-beaver-manifesto/>
- **“Distribution of Juvenile Salmonids and Seasonally Available Aquatic Habitats Within the Lower Smith River Basin and Estuary, Del Norte County, California”** by Marisa Parish and Justin Garwood (Report on beaver bank burrow utilization by salmonids for the Smith River Alliance 2015). <https://smithriveralliance.org/wp-content/uploads/2015/07/Smith-River-Alliance-Smith-River-Estuary-and-Coastal-Plain-Report.pdf>

- **Eager: The Surprising, Secret Life of Beavers and Why They Matter** by Ben Goldfarb, 2018. <https://www.chelseagreen.com/product/eager/>
- **The Economic Value of Beaver Ecosystem Services, Escalante River Basin, Utah** by ECONorthwest, 2011. https://www.grandcanyontrust.org/sites/default/files/ut_2011escalanteBeaverReport.pdf
- **“Ecosystem experiment reveals benefits of natural and simulated beaver dams to a threatened population of steelhead (*Oncorhynchus mykiss*)”** by Nicolaas Bouwes et al. (*Scientific Reports* 6, Article number: 28581 2016). <http://www.nature.com/articles/srep28581>
- **“Hydrologic and Geomorphic Effect of Beaver Dams and Their Influence on Fishes”** by Michael M. Pollock, Morgan Heim and Danielle Werner (*American Fisheries Society Symposium* 37, 2003). https://www.researchgate.net/publication/231218389_Hydrologic_and_Geomorphic_Effects_of_Beaver_Dams_and_Their_Influence_on_Influence_on_Fishes
- **“The Importance of Beaver Ponds to Coho Salmon Production in the Stillaguamish River Basin, Washington, USA”** by Michael Pollock, George R. Pess, Timothy J. Beechie and David R. Montgomery (*North American Journal of Fisheries Management*, 2004). <http://www.tandfonline.com/doi/abs/10.1577/M03-156.1>
- **“Landscape-scale Carbon Storage Associated with Beaver Dams”** by Ellen Wohl (*Geophysical Research Letters* 2013) <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/grl.50710>
- **Once They Were Hats: In Search of the Mighty Beaver** by Frances Backhouse, 2015. <https://www.backhouse.ca/books/beavers-radical-rodents-and-ecosystem-engineers/>
- **“Relationships between Willow Flycatcher and Beaver-Modified Stream Reaches in Sierra Nevada Montane Meadows”** by Campos, B. R., H. L. Loffland, and R. D. Burnett (Report to The Nature Conservancy 2019). https://www.birdpop.org/docs/pubs/Campos_et_al_2019_Relationships_Between_Willow_Flycatcher_and_Modified_Stream_Reaches.pdf
- **“Smokey the Beaver: beaver-dammed riparian corridors stay green during wildfire throughout the western United States”** by Emily Fairfax and Andrew Whittle (*Ecological Applications*, 2020). <https://esajournals.onlinelibrary.wiley.com/doi/full/10.1002/eap.2225>

HISTORIC RANGE OF BEAVER IN CALIFORNIA

- **“Novel Physical Evidence that Beaver Historically were Native to the Sierra Nevada”** by James, C. D. and R. B. Lanman (*California Fish and Game* 98:129-132, 2012) <http://oaec.org/publications/evidence-beaver-native-to-sierra/>
- **“The Historical Range of Beaver in the Sierra Nevada: a Review of the Evidence”** by Lanman, R. B., H. Perryman, B. Dolman and C. D. James (*California Fish and Game* 98:65-80, 2012) <http://oaec.org/publications/the-historic-range-of-beaver-in-the-sierra-nevada-a-review-of-the-evidence/>

- **“The Historical Range of Beaver (*Castor canadensis*) in Coastal California: an Updated Review of the Evidence”** by Lanman, C. W., K. Lundquist, H. Perryman, J. E. Asarian, B. Dolman, R. B. Lanman, and M. M. Pollock (*California Fish and Game* 99:193-221, 2013) <http://oaec.org/publications/historical-range-of-beaver-update/>

- ***The Historic Range of Beaver in the North Coast of California: a Review of the Evidence*** by K. Lundquist, B. Dolman, R. B. Lanman, M. M. Pollock, J. R. Baldwin, 2013. <http://oaec.org/publications/historic-range-of-beaver/>

CURRENT BEAVER DISTRIBUTION

- **iNaturalist** - <https://www.inaturalist.org/taxa/43794-Castor-canadensis>

BEAVER FILMS

- **“Beavers and Wildfire: a stop-motion story”** by Dr. Emily Fairfax, 2019 <https://www.youtube.com/watch?v=IAM94B73bzE>

- **“Beaver: Back to the Future”** by Sarah Koenigsberg, Tensegrity Productions, 2015 <https://www.grandcanyontrust.org/beaver-back-future>

- **“Beaver Believers”** by Sarah Koenigsberg, Tensegrity Productions, 2018 <https://www.thebeaverbelievers.com/>

- **“Leave It To Beavers”** by Jari Osborn, 2014. <http://www.pbs.org/wnet/nature/leave-it-to-beavers-leave-it-to-beavers/8836/>

- **“One Stick at a Time”** by The 10 Decades Project and Sarah Koenigsberg, 2017. <https://www.youtube.com/watch?v=IAM94B73bzE>

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This document was compiled by the Occidental Arts & Ecology Center WATER Institute. For more information about our work with beaver go to www.oaec.org/beaver, or call Kate Lundquist at (707) 874-1557 x 118

