

EPA Research Opportunities

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National Tribal Science Priorities

- Climate Change
 - *Technical assistance and resources to develop and implement adaptation/mitigation plans to address climate change*
- Integration of Traditional Ecological Knowledge (TEK) in Environmental Science, Policy and Decision-Making
 - *EPA support for developing and supporting TEK policies, standards/regulations, training, tribal capacity, etc.*

<http://www.epa.gov/osp/tribes/priorities.htm>



National Tribal Science Council

- National Co-Chairs
 - **Tribal: Mike Durglo**, Confederated Salish and Kootenai Tribes of the Flathead Reservation
 - **EPA: Brenda Groskinsky**, RSL, R7
- Region 9 Representatives
 - **Tribal: Kate Sloan**, Yurok
 - **EPA: Destinee Cooper and Eloy Balderas**



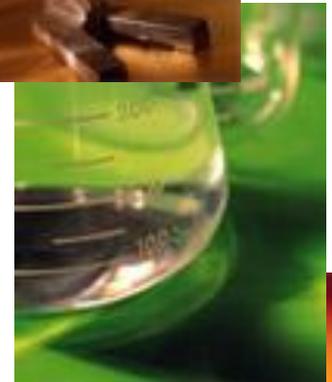
<http://www.epa.gov/tribalportal/>

<http://epa.gov/osp/tribes/tribes.htm>

<http://www.epa.gov/region9/tribal/rtoc/index.html>

Region 9 Research Resources

- Regional Applied Research Effort (RARE)
<http://epa.gov/osp/regions/rare.htm>
- Regional Methods (RM) Program
 - Managed by EPA ORD (Office of Research and Development)
No money comes to R9 or Partners
 - RARE \$200K competed in R9 (Regional science needs)
 - RM \$600K competed Nationally (sampling/analysis methods)
 - Projects proposed by EPA Region 9 staff
 - Projects must address Regional Science Needs
 - Collaboration with Tribal, State, and Local Partners
 - Projects compete, funding is not guaranteed
<http://epa.gov/osp/regions/rm.htm>

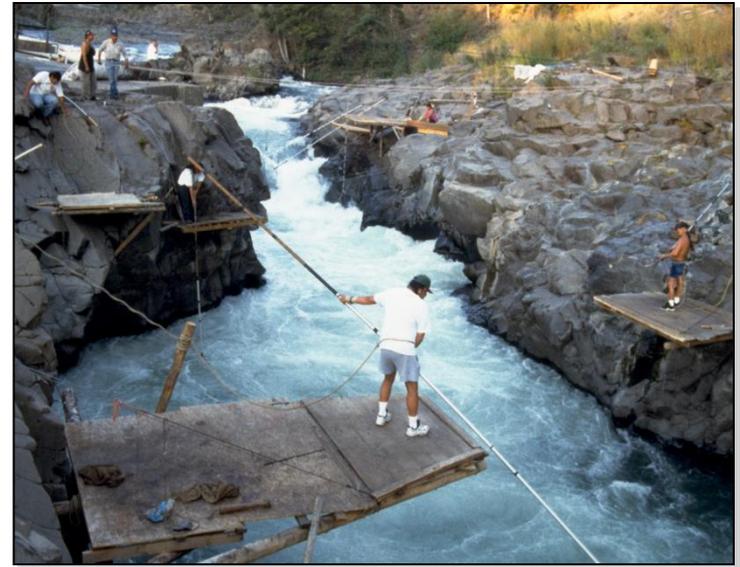


Regional Tribal Science Council and Priorities

- Update from Kate Sloan

RARE Example Tribal Projects

- Coal Use for Home Heating and Cooking on Navajo Nation: Home Energy Interventions to Improve Children's Health [\$45K, Region 9, *Kathleen Stewart*]
- Developing Exposure Concentrations for Regional Cultural Tribal Risk Assessment [\$100K, Region 1, 2007]
- Mercury Source Identification and Risk Management for Fish Tissue Consumption on Cheyenne River Sioux Tribal Lands [\$53K, Region 8, 2002]
- Development of Tribal Fish Consumption Survey Software [\$16K, Region 10, 2003]

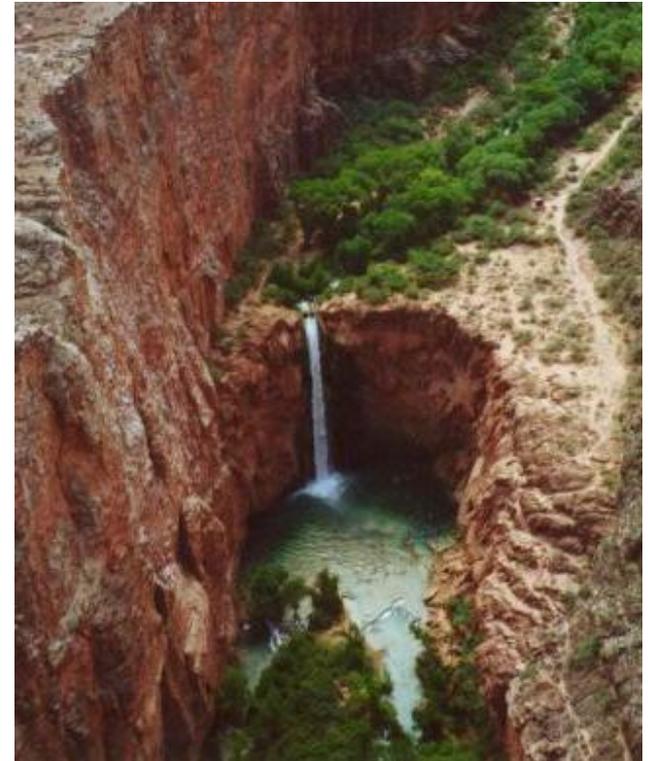


Dipnetting salmon at Lyle Falls on the Klickitat River. photo credit: Dave Terpening US EPA

EPA National Center for Environmental Research (NCER) STAR Grants

- Science to Achieve Results (STAR) grants to Universities and Students
<http://www.epa.gov/ncer/>
<http://www.epa.gov/ncer/tribalresearch/publications/index.html>
- STAR Tribal Environmental Health Research Program
<http://www.epa.gov/ncer/tribalresearch/>

Depending on solicitation, STAR grants are available to universities, businesses, students, governments, non-profits, and Tribes



Moon Falls, 2001, Karl Banks, Water Division.

Recent Tribal STAR Grant Opportunity

- **Science for Sustainable and Healthy Tribes**
 - **Climate Change Impacts**
 - **Indoor Air Impacts**
 - *Call for Proposals Closed June 25, 2013*
- *Eligibility: Nonprofits, universities, hospitals, Tribal governments, U.S. territories, Minority Academic Institutions*
- Up to \$920K maximum duration of 3 years
http://www.epa.gov/ncer/rfa/2013/2013_star_tribal.html



<http://www.epa.gov/ncer/tribalresearch/publications/index.html>

National STAR Grant Example



- **Understanding the Cumulative Affects of Environmental and Psycho-Social Stressors that Threaten the Pohlik-lah and Ner-er-ner Lifeway: The Yurok Tribe's Approach**



- *Sloan, Kathleen, Steinberg, Sheila, Steinberg, Steven J, Fluharty, Suzanne*
Yurok Tribe Environmental Program,
Humboldt State University

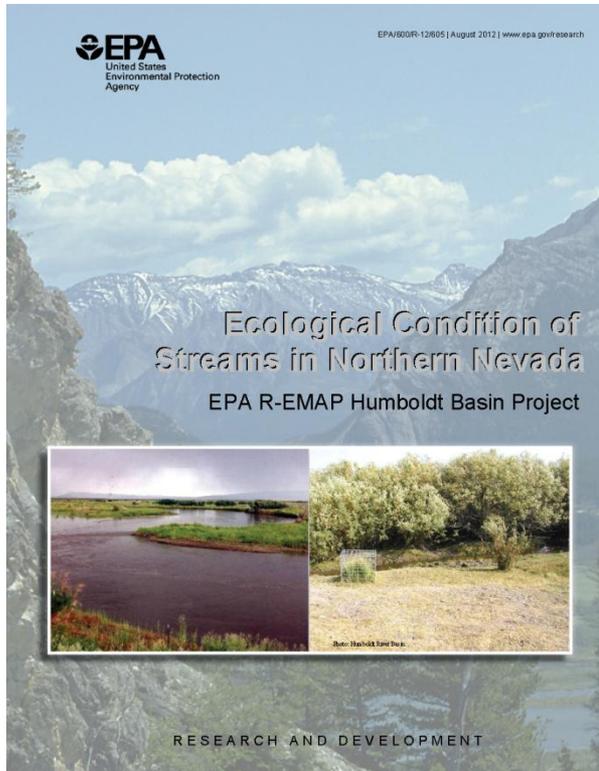


- \$974K July 1, 2008 through December 31, 2012
http://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/display.abstractDetail/abstract/8801/report/0

Past Tribal STAR Projects

- An Epidemiologic Study of Time Trends and Health Effects of Persistent Organic Pollutants, Mercury and Micronutrients
[\$948K: *Berner, J*]
- Community Based Risk Assessment of Exposure to Contaminants via Water Sources on the Crow Reservation in Montana [\$329K: *Ford, Timothy E.*]
- Impacts of Climate Change on Health Benefits of a Tribal Alaskan Resource: Integrating Traditional Ecological Knowledge with Risk Assessment Through Local Monitoring
[\$300K: *Lila, Mary Ann; Flint, Courtney; Johnson, Jennifer*]
<http://www.epa.gov/ncer/tribalresearch/recipients.html>

Other Tribal Related Research in R9



- Southwest Ecosystems Services
[\$1M EPA, \$1M BLM, NRCS, BOR, others]:
www.epa.gov/esd/tribal/tribal.html
 - Tribal Pilot
[John Lin, Robert K. Hall, Nita Tallent-Halsell]
www.epa.gov/osp/tribes/NatForum10/ntsf10_4m_TallentHalsell.pdf
 - Properly Functioning Condition of Ecosystems Tribal-Focused Environmental Risk and Sustainability Tool, T-FERST
[John Lin, Robert K. Hall, Valerie Zartarian]
www.epa.gov/head/research/tferst.html
- Arsenic Removal System Tohono O’Odham Nation, Covered Wells Regional Drinking Water System, [\$115K, ORD engineering and installation, 2012]

Key Points on EPA Research Funding

- STAR Grant funding is the only EPA research funding that is targeted to go directly to Tribes or Tribal members (students)
- All other research funding in this presentation are funds spent by EPA on research related to Tribal issues
- Dollar amounts shown in this presentation are historic amounts prior to current budget conditions
- This presentation does not include research funded by Tribes themselves
- <http://www.epa.gov/region9/tribal/> and click on “Tribal Science”

