



Pacific Southwest Research Station

Forty Proposals submitted to the Pacific Southwest Research Station to Conduct Research in the Lake Tahoe Basin

The Pacific Southwest Research Station (PSW) received 40 proposals in response to a request issued September 2, 2009 for research in support of the Lake Tahoe Restoration Act and the Lake Tahoe Environmental Improvement Program. This is the fourth round of proposals received under the competitive Tahoe Science Program administered by PSW and funded by the Bureau of Land Management under the Southern Nevada Public Land Management Act (SNPLMA).

Each of the three theme areas received 12-14 proposals, and every subtheme received multiple proposals (Table 1). The *Special status species and communities and priority invasive species* subtheme drew the most (25%) proposals. The median request (\$250,000) was about 30% higher than in Round 9, and the total amount requested (\$9.8 million) is more than three times the available funding. Based upon these factors, we estimate that 9-13 proposals are likely to be funded in Round 10. Two other Round 10 projects, focusing on the synthesis of existing knowledge pertaining to “*Evaluation of nearshore ecology and aesthetics*” and “*Evaluation of upland ecological integrity*” will be pursued through separate requests for proposals in 2010.

Table 1: Submissions received by subtheme.

Theme	Funding Target	Subtheme	# Submissions
1) Forest Health	\$1,100,000	Understanding long term ecological effects of forest treatments	8
		Modeling and decision support tools for multi-objective forest management	6
2) Watershed, Water Quality, and Habitat Restoration	\$1,000,000	Roadway and urban stormwater management	4
		Special status species and communities and priority invasive species	10
3) Air Quality and Meteorology	\$900,000	Impact and control of atmospheric particulate matter	5
		Impacts and control of gaseous pollutants	3
		Understanding basin meteorology	4

What’s Next?

November: proposals that fulfilled requirements of the RFP are being sent to scientists for external peer review.

January: Above average proposals as evaluated through an independent technical peer review will advance to a relevancy review by management and regulatory agencies in the Tahoe Basin.

February: Selection of projects based on technical and relevancy reviews.

May-June: Anticipated start of Round 10 projects.

The request for proposals (RFP) for Round 11 is scheduled to be issued in September, 2010.

Table 2 below provides the titles of all proposals received in Round 10.

For information about all science projects currently underway, please check out our website at: <http://www.fs.fed.us/psw/partnerships/tahoescience/>

Table 2: List of proposals under consideration for Round 10

Subtheme	Title
1A	Long-term ecological effects of northern Sierra Nevada forest treatments designed to reduce fire hazards and sequester carbon
1A	Do forest treatments reduce the risk of tree insect and disease outbreaks in the Lake Tahoe Basin?
1A	Management options for reducing wildfire risk and maximizing carbon storage under future climate changes, ignition patterns, and forest treatments
1A	Riparian ecosystem changes in response to forest management and climate
1A	Long-Term Fine and Landscape Scale Response of Wildlife to Forest Management
1A	Fuel Treatment Effects on Soil Structure and Longer Term Impact for Fine Particle Generation and Transport in the Lake Tahoe Watershed
1A	Fuels Treatments, Climate, and Soil Depth Effects on Conifer Water Use in the Lake Tahoe Basin
1A	Ecological succession in the Angora fire: Forest management effects on woodpeckers as keystone species
1B	An ecophysiological basis for carbon sequestration and restoration of aspen stands in the Lake Tahoe Basin
1B	Wildlife Habitat Occupancy Models for Project and Landscape Evaluations in the Lake Tahoe Basin
1B	Chipmunk identification and distribution in the Lake Tahoe Basin
1B	Assessing forest/fuel recovery following fuel reduction treatments in Lake Tahoe Basin using a chronosequence approach
1B	Adaptive Management Handbook and Tools for Low-Impact Vegetation Management and Estimation of Pollutant Load Reductions from Forested Uplands
1B	Development and Validation of the Tahoe Project Sediment Model
2A	Impact of Traction Control Material and Street Sweeping on Surface Water Quality in the Lake Tahoe Basin
2A	Catchment Scale Validation and Testing of Existing Lake Tahoe Stormwater Tools
2A	Tahoe Stormwater Particle Assessment and Management for Urban and Roadway Runoff
2A	Defensible Space-Erosion Protection Tools Development
2B	Potential for Pathogen Growth, Fecal Indicator Growth and Phosphorus Release under Clam Removal Barriers in the Lake Tahoe Basin
2B	Natural and human limitations to Asian clam distribution and recolonization—factors that impact the management and control in Lake Tahoe
2B	Abiotic Control of Aquatic Invasive Species Dispersal: Age-Related Effects of Nearshore Ultraviolet Radiation on Warmwater Fishes
2B	Science to assist policy decisions regarding the prevention of invasive species: testing the survival and growth of quagga mussel in Lake Tahoe

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Subtheme	Title
2B	Integrated Aquatic Bioassessment in the Tahoe Basin: Catchment-Scale Stream Monitoring for Adaptive Management and Development of a Lake Benthic Index of Biological Integrity
2B	Stocking Guidelines for Aspen Restoration
2B	Evaluation of Montane Forest Genetic Resources: Implications for Conservation, Management, and Restoration of whitebark pine in the Lake Tahoe Basin
2B	Use of Ground Water by Aquatic Invasive Plant Biomass at Lake Tahoe
2B	Evaluating the Benefits of Meadow Restoration for Pollinators affected by climate change
2B	Plant community characterization and ranking of fens in the Lake Tahoe Basin
3A	Visibility Monitoring and Standards for Lake Tahoe Basin: Assessment of Current and Alternative Approaches
3A	Lake Tahoe Visibility Impairment Source Apportionment Analysis
3A	Particulate Emissions from Biomass Burning: Quantification of the Contributions from Residential Wood Combustion, Forest Fires, and Prescribed Fires
3A	Lake Tahoe aerosol characterization: High time resolution measurements of fine particle composition for source attribution and regional air quality
3A	Sources of particulate matter and their impacts on lake clarity and visibility in the Lake Tahoe basin
3B	Sources of Ozone and its Precursors in the Lake Tahoe Air Basin
3B	A Modeling Study in the Lake Tahoe Basin: Understanding Ozone Formation
3B	Distribution of ozone, ozone precursors and gaseous components of atmospheric nitrogen deposition in the Lake Tahoe Basin
3C	Understanding the Micrometeorology of the Lake Tahoe Basin and its Implications for Nocturnal Inversions and Transport Processes in Complex Terrain
3C	Tahoe Climate Information Management System (TahoeClim)
3C	Understanding meteorology in the Lake Tahoe Basin
3C	Improving meteorological data and forecasts for prescribed fire burn day decisions for the Lake Tahoe Basin

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