FORESTRY, FIRE & STATE LANDS
REQUEST FOR PROPOSALS
Cover Sheet

Project Title	When will the Great Salt Lake go dry? A hydrologic model to forecast the level of the Great Salt lake into the future.	
Lead Project Sponsor	Utah State University	
Project Contact	Name	David G Tarboton
	Mailing Address	Utah Water Research Laboratory, 8200 Old Main Hill, Logan, UT, 84322-8200
	Phone Number	435 797 3172
	Fax Number	435 797 3663
	E-Mail Address	dtarb@usu.edu
Project Description / Abstract	This project seeks to develop a model to predict the level of the Great Salt Lake (GSL), 1, 5 and 10 years into the future subject to fluctuations in climate as well as changes in land use and management of water resources in the river basins that drain in to the GSL. The approach will integrate physically based and statistical hydrologic modeling to account for systematic changes in the drainage basin hydrology, land use and watershed management, as well as systematic and random variability in the climate inputs over the time scale of interest. Potential climate change will be factored in considering IPCC climate model forecasts for this region. Significant effort will go into quantifying the uncertainty of the forecasts, which is expected to increase as the time horizon is longer, in an effort to quantify for managers, planners and policy makers what we do and do not know about the potential for fluctuations in lake level that is critical for the economy, habitat and ecosystems of this area. Results will be published as part of the Great Salt Lake information system, where the model will be implemented to provide updated forecasts on an ongoing basis. Results will also be published in the scientific literature.	

Project Funding	Amount Requested	Matching Funds	Total Project Cost
	$ 63,077	$	$ 63,077