

Title: Evolving Headwater Stream Resiliency: Modeling Surface Water Trends Across the San Bernardino National Forest to Support Sustainable Water Resources Management

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Abstract: High quality water resources are essential to sustaining ecological and human health, however, less focus has centered on watershed landscape and climatic impacts to headwater streams. The San Bernardino National Forest (SBNF) in Southern California contains numerous perennial headwater streams that serve both the Santa Ana and Mojave River Basins as well as recreational streams and lakes utilized by locals and tourists alike. Using a teacher-scholar model, undergraduate and graduate research assistants collaborated with faculty to monitor surface water quality at 10 sites across the SBNF including headwater streams entering Silverwood Lake, Lake Gregory and Lake Arrowhead.