

Forest Health Research Program Grantee Webinar:

# Treatments Mediated Castle Fire Impacts to the Mountain Home Giant Sequoia Grove

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**Wednesday, April 24, 2024**

3:00 pm – 4:00 pm

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**Abstract:** The Mountain Home giant sequoia grove, one of multiple groves that burned in the 2020 Castle Fire, has a unique history of silviculture and fuels management over the last seventy years. We surveyed nearly 5,000 large trees pre- and post-fire and analyzed the factors associated with mortality. We observed an immediate (1-2 years) post-fire mortality rate of 7.4%, and found that treatment history within the last 15 years was a strong predictor of survival. Our work highlights the need for restorative forest management in groves to ensure their persistence through changing fire regimes.

**Bryant Nagelson** is a research analyst in the Bisbing Forest Ecology & Silviculture lab at the University of Nevada, Reno. He studies ecological responses to forest management strategies at various spatial and temporal scales.



The Forest Health Research Program is part of [California Climate Investments](#), a statewide initiative that puts billions of Cap-and-Trade dollars to work reducing greenhouse gas emissions, strengthening the economy, and improving public health and the environment — particularly in disadvantaged communities.

