

Project Title: A Comparative Study Looking at Isolates of the Plant Pathogenic Bacterium *Lonsdalea quercina* Present in Colorado and California, USA

Task Agreement #: G18AC00335

Modification(s):

Discipline: Natural

Type of Project: Research

Funding Agency: USGS

Other Partners/Cooperators: Colorado State University

Student Participation:

Effective Dates: 9/1/2018– 8/31/2019

Funding Amount: \$49,482

Investigators and Agency Representative:

USGS Contact: Ian Pearse; ipearse@usgs.gov

Investigator: Janet Stewart, Colorado State University Fort Collins, CO; jane.stewart@colostate.edu

Project Abstract The goal of this research is to better understand the causal agents that cause “drippy” diseases in order to improve the ability to monitor and control them. Overall, this project will enhance the understanding of the interactions between the microbial pathogen, host plants, and vectors. Specific research objectives include:

1. Provide a fundamental assessment of the impact of drippy blight, drippy nut, and their range of hosts
2. Determine if *Lonsdalea quercina* is present in iconic oak stands
3. Establish whether a suite of microbial agents are associated with drippy blight symptoms.