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Mt Tamalpais manzanita (*Arctostaphylos montana* Eastw. subsp. *montana* [Ericaceae]), shown here with its surrounding plant community, was used as a surrogate species to test germination-enhancing treatments for the endangered Franciscan manzanita (*Arctostaphylos franciscana* Eastw.). Photo by Chelsea Dickson

Examining smoke water as a potential germination-enhancing technique to aid the recovery of the endangered Franciscan manzanita (*Arctostaphylos franciscana* Eastw. [Ericaceae])

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ABSTRACT

A single individual of Franciscan manzanita (*Arctostaphylos franciscana* Eastw.) [Ericaceae] was discovered in 2009 in the Presidio of San Francisco, California. As part of a recovery and restoration plan for this species, we conducted germination trials of the closely related species Mt Tamalpais manzanita (*Arctostaphylos montana* Eastw. subsp. *montana*) using varying concentrations and forms of smoke water pretreatments. Our initial trials indicate that a 1:50 (v:v) concentration of smoke water in distilled water may lead to improved germination percentages. Our results should assist with development of future

germination trials and propagation plans for the conservation and recovery of Franciscan manzanita.

Laskowski MJ, Dickson CC, Schaefer B, Young B. 2013. Examining smoke water as a potential germination-enhancing technique to aid the recovery of the endangered Franciscan manzanita (*Arctostaphylos franciscana* Eastw. [Ericaceae]). *Native Plants Journal* 14(1):49–54.

KEY WORDS

smoke-induced germination, seed dormancy, Mt Tamalpais manzanita, *Arctostaphylos montana montana*

NOMENCLATURE

Jepson Herbarium (2013)