



SAVING OUR SPECIES

Phytophthora cinnamomi

2020-2021 annual report card

Summary

Projects	Forging an effective fight against Phytophthora in NSW.
Total expenditure	\$58,126 (\$34,126 cash; \$24,000 in-kind)
Partners	Environment, Energy and Science; Royal Botanic Gardens and Domain Trust (RBGDT) - Plant Sciences



Determination name:
Infection of native plants by Phytophthora cinnamomi

NSW status:
Listed

Commonwealth status:
Listed

Management stream:
Key threatening processes

Photo: Keith McDougall

Project 1: Forging an effective fight against *Phytophthora* in NSW.

Project Description

Experiments testing the efficacy of various hygiene measures were completed. The results are being processed and will be published in the coming year. They are not entirely as expected and will significantly impact how hygiene for *Phytophthora* is done in NSW and more broadly. Susceptibility testing of threatened species continued, and about 50 species have now been tested. A few additional species will be tested during winter 2021, and a summary of all results published soon after. Trials of phosphite as a prophylactic against infection commenced in April 2021, and the results will be available in September 2021. The results of trials assessing the susceptibility of threatened wetland species to a related pathogen, *Phytophthora gregata*, were published: Wan JSH, McDougall KL, Liew ECY (2020) The susceptibility of 7 threatened species to *Phytophthora gregata* and the pathogen's disease aetiology. Australian Journal of Botany 68, 595–601.

Investment

Participant	Cash	In-kind
Environment, Energy and Science	\$34,126	\$6,000
Royal Botanic Gardens and Domain Trust (RBGDT) - Plant Sciences	\$0	\$18,000

Actions and milestones

Action / milestone
Complete hygiene experiments commenced in 2019–20. Publicize results and disseminate them to relevant staff.
Test efficacy of phosphonate treatment on species found to be highly susceptible in glasshouse trials.

Outcomes and successes

To our knowledge, the hygiene experiments are the first of their kind; the results will have far-reaching consequences for the management of this pathogen.

Saving our Species 2020-2021 annual report card for Infection of native plants by *Phytophthora cinnamomi*. For more information refer to the specific strategy in the Saving our Species program.