

Efficacy of Steam Weed Management on Mother of Millions (*Bryophyllum* species), Singapore Daisy (*Sphagneticola trilobata*) and Butterfly Heaven (*Dyschoriste depressa*)

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Summary Mother of Millions (*Bryophyllum* species) and Singapore Daisy (*Sphagneticola trilobata*) are both significant weeds in NSW and Queensland, with the potential to be a significant weed in Victoria due to their ability to rapidly spread. *Dyschoriste* or Butterfly Heaven (*Dyschoriste depressa*) is an emerging environmental weed in Queensland that has spread at an alarming rate in the last 20 years across Brisbane. Mother of Millions is also toxic to livestock, and potentially in large enough doses to humans and pets. All these weeds are challenging to control as the smallest cutting can regrow and/or herbicides have been found to have limited effect.

This paper explores the efficacy of saturated steam weed management on Mother of Millions, Singapore Daisy and *Dyschoriste* across a variety of

environments. Saturated steam weed management has been found to have varying degrees of success depending on the soil structure i.e. mulched or sandy sites. In some cases, the weeds are effectively eradicated with one treatment and in other cases require multiple treatments with saturated steam. In the case of *Dyschoriste*, saturated steam has been demonstrated in the field to be the most effective treatment method. Some of the coastal sites in NSW were severely impacted by the 2019-2020 Black Summer Fires and these impacts on weeds, spread and saturated steam weed management will be covered. This paper also explores factors to improve success rates. Cited case studies include urban bush regeneration sites in Brisbane, coastal sites at Morton Bay in Queensland, and coastal sites at Wallabi Point in NSW.