

Prohibited invasive plant
Restricted invasive plant

Miconia

Miconia calvenscens and all other miconia species



Four species of miconia have been found in Australia. All pose significant threats to our rainforests and are restricted invasive plants in Queensland. All miconia species in Australia are targeted for eradication. *Miconia calvenscens* (pictured above) has the potential to cause irreversible damage to our rainforests. Like other imported weeds, *Miconia calvenscens* is capable of rampant growth and can produce hundreds of small berries every year which are attractive to birds and are spread long distances by these animals. Under favourable conditions, *Miconia calvenscens* forms dense thickets in rainforest understoreys, potentially replacing native plants and affecting wildlife populations.

Miconia calvenscens has become a major pest in the rainforests of Tahiti and Hawaii where it is known as the 'purple plague'. Overseas authorities have warned Australia that 'no expense should be spared to hunt this plant down and destroy it before you have a hopeless problem'. An eradication campaign is currently being managed in Queensland and New South Wales by Biosecurity Queensland.



Queensland
Government

Legal requirements

All *Miconia* species other than *Miconia calvescens*, *Miconia racemosa*, *Miconia nervosa* and *Miconia cionotricha* are prohibited invasive plants while those listed are restricted invasive pest plants under the *Biosecurity Act 2014*. This Act requires that all sightings of any *miconia* species must be reported to Biosecurity Queensland within 24 hours of being found.

By law, everyone has a general biosecurity obligation (GBO) to take all reasonable and practical steps to minimise the risk of spread of *miconia* until they receive advice from an authorised officer. It must not be kept, moved, given away, sold, or released into the environment.

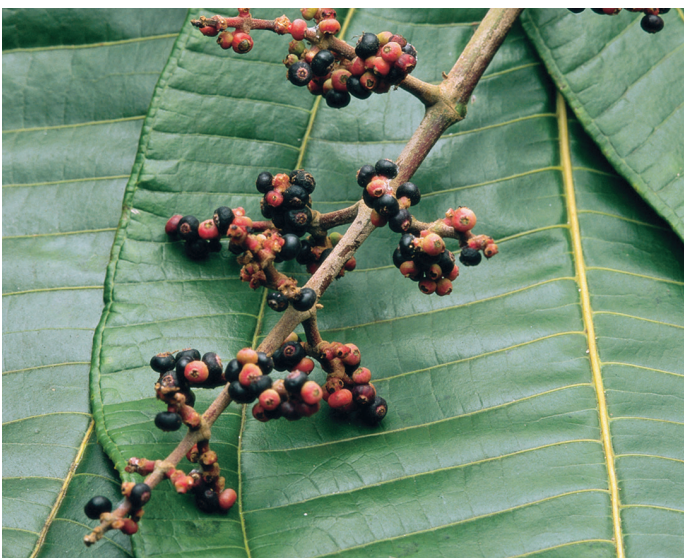
Description

Miconia calvescens is a small tree (up to 15 m), with large leaves up to 70 cm long. The underside of the leaves is a distinct, deep iridescent purple. Three large veins on each leaf, running from the base to the tip, can also help identify this plant.



The underside of a *Miconia calvescens* leaf
Note the large size and the iridescent purple colour

Flowering and fruiting of *Miconia calvescens* begins when the plant is 4–5 years old and normally takes place between February and September. Flowers are pink or white, approximately 5 mm long and occur in a large panicle that can contain 1000–3000 individual flowers. The ripe fruit are black to purple, 6 mm in diameter and contain up to 200 small seeds.



Fruit of *Miconia calvescens*



Flower panicles of *Miconia calvescens*

Miconia racemosa, *Miconia nervosa* and *Miconia cionotricha* are scrambling shrubs that may reach a height of about 3 m.

Miconia racemosa has leaves which can grow up to 20 cm long. Each leaf has five distinct veins that all begin and end at the same points at the base and tip. The smaller, transverse veins make a deep 'quilted' pattern on the leaf surface. Leaves form in opposite pairs.



Leaves of *Miconia racemosa*, showing the distinct three-lateral vein pattern

Miconia nervosa has leaves which have an elongated tip and can grow up to 25 cm long. The arrangement of veins shows two distinct points of intersection near the base of the leaf. The leaf surfaces have small hairs. The stems and underside of the leaf are a light red colour.

Miconia cionotricha is not well known worldwide, and has been detected in only two isolated, managed locations in North Queensland. Contact Biosecurity Queensland on 13 25 23 for more information about *M. cionotricha* in North Queensland.



Miconia nervosa leaf

Distribution and potential spread in Australia

Miconia calvescens is the most common of the four species, with several infestations having been detected in North Queensland, and scattered detections in northern New South Wales.

Miconia calvescens has been present in Australia since the 1960s, when it was introduced to the Townsville Botanic Gardens. It was introduced to other botanical gardens along the east coast and was also sold by nurseries. Most *Miconia calvescens* infestations in Queensland have originated from garden plantings, and it has also been found at nurseries in northern New South Wales.

In Australia, *Miconia calvescens* has the potential to invade areas receiving a rainfall of 1800–2000 mm per year. This includes the coastal and inland areas of Queensland, northern New South Wales, Northern Territory and Western Australia.

Both known infestations of *Miconia racemosa* (near Kuranda, 2002) and *Miconia nervosa* (Whyanbeel, near Mossman, 2004) have been contained to single locations. No naturalised infestations of *Miconia cionotricha* have been detected in Australia.

Methods of spread

Because of its attractive foliage, *Miconia calvescens* has been subject to sale and distribution via gardeners. Its spread from gardens has mainly occurred via fruit-eating birds.

Seed may also be spread by floating down watercourses, and via mud sticking to vehicles, machinery, footwear and animals.

Current status

In North Queensland, populations of *Miconia calvescens* have been detected between Mossman in the north, Malanda in the west, and Tully in the south. Scattered infestations have also been found in northern New South Wales.

All miconia species in Australia (with the exception of *Miconia cionotricha*) are targets of a national cost-shared eradication program being managed by Biosecurity Queensland. The eradication program relies on community support to detect and report infestations of miconia.

Control

All suspected sightings of miconia must be reported to Biosecurity Queensland, which will work with the relevant person to control the plant. Anyone finding suspected plants should immediately take steps to minimise the risk of miconia spreading.

Further information

Further information is available from your local government office, or by contacting Biosecurity Queensland on 13 25 23 or visit biosecurity.qld.gov.au.



Miconia calvescens in fruit

This fact sheet is developed with funding support from the Land Protection Fund.

Fact sheets are available from Department of Agriculture and Fisheries (DAF) service centres and our Customer Service Centre (telephone 13 25 23). Check our website at biosecurity.qld.gov.au to ensure you have the latest version of this fact sheet. The control methods referred to in this fact sheet should be used in accordance with the restrictions (federal and state legislation, and local government laws) directly or indirectly related to each control method. These restrictions may prevent the use of one or more of the methods referred to, depending on individual circumstances. While every care is taken to ensure the accuracy of this information, DAF does not invite reliance upon it, nor accept responsibility for any loss or damage caused by actions based on it.

