

# Myrtle rust

## Information for specific groups

- Home gardeners
- Nursery owners
- Beekeepers
- Feijoa growers
- Orchardists
- Walkers / Trampers

### Home gardeners

#### Recommendations and information:

- Please check myrtle plants in your garden for symptoms of myrtle rust.
- Myrtle rust affects Myrtaceae species plants such as pōhutukawa, ramarama, mānuka, and bottlebrush.
- If you believe you've seen the disease, don't touch it, take photos if possible, note the location and contact us on 0800 80 99 66. You will receive advice on what to do.
- At this time, MPI does not recommend attempting to prevent infection in your garden by using a fungicide.
- Some fungicides may help prevent infection but there are factors to consider including that the chemicals are not eco-friendly and cannot be used near fruit and vegetable plants and trees and these fungicides can kill bees and other beneficial insects. In addition, once a course of treatment is started, it will need continuous application.
- It may be possible to protect special myrtle plants by removing other susceptible species that are nearby. For example, to date, *Lophomyrtus bullata* (ramarama) has been highly affected and if myrtle rust is present in your neighbourhood, you could consider removing ramarama to protect other plants such as pōhutukawa or mānuka.
- Contact your local garden centre for advice.

### Nursery owners

#### Recommendations and information:

- Before moving any plants or equipment off your site, inspect any *Myrtaceae* plants on your property (including planted trees, not only nursery stock) for symptoms of myrtle rust.
- Before bringing *Myrtaceae* plants onto your site, check that the site the plants are coming from has been inspected for symptoms of myrtle rust.
- When any *Myrtaceae* plants arrive, check them for symptoms of myrtle rust.
- If you suspect myrtle rust, please take a photo and report to MPI (0800 80 99 66) and don't move any plants, produce or machinery offsite until you hear back from MPI.
- Practice good hygiene – wash equipment, machinery, clothing and hands before moving between properties.
- NZPPI have a range of useful guidance documents on their website: <http://nzppi.co.nz/>

## Beekeepers

### Recommendations and information:

- The exact behaviour of myrtle rust in New Zealand conditions, and what impact it will have on mānuka, is currently unknown.
- We do know that bees can transfer the myrtle rust spores from plant to plant.
- From overseas studies, we know that bees can transfer spores into the hive. However, myrtle rust spores have not been observed in honey. Our best information from the Australian experience tells us that transmission of any viable spores out of the hive is considered unlikely.
- In Australia, myrtle rust has not had a significant impact on mānuka or tea tree.

MPI has determined that any risk of the disease being spread through the movement of beehives is very low.

### What is MPI's advice on beehive movement?

- Due to the low risk of myrtle rust transmission through hives, there is no need to place restrictions on the movement of beehives.
- At this time, there is no need for any destruction of hives.
- If you suspect myrtle rust, please take a photo and report to MPI (0800 80 99 66) and don't move any plants, produce or machine off site until you hear back from MPI.

## Feijoa Growers

### Recommendations and information:

- There is some limited international evidence that feijoas can be a host plant for myrtle rust, however, to date, there has been low impact on feijoa plants in New Zealand.
- MPI believes that feijoas present a low risk of spreading myrtle rust to other uninfected myrtle plants.
- Feijoa growers, as with all nursery growers, need to maintain good hygiene and biosecurity practices on their property. NZPPI have useful guidance documents on their website: <http://nzppi.co.nz>
- Regularly inspect any myrtle species, including feijoas, for signs of infection. If you believe you have found the disease, don't touch it, take photos and contact MPI on 0800 80 99 66.
- At harvest time, we recommend washing fruit with water at some point in the post-harvest process – preferably before distribution – to reduce any risk of transferring spores.
- At this time, we do not recommend using fungicide.

## Orchardists

### Recommendations and information:

- Before harvesting fruit or moving any plants, machinery or crops from your site, please inspect any *Myrtaceae* plants on your property (both crop plants and border trees) for symptoms of myrtle rust.
- While feijoas and guavas have been considered susceptible to myrtle rust, there has been low incidence of myrtle rust on these plants. As a precaution, we recommend that feijoa and guava fruit should be washed thoroughly with water at some point in the post-harvest process, if possible, before distribution.
- There is no justification to restrict the movements of fruit and plants as it is considered they present a low risk of spread.
- Before bringing *Myrtaceae* plants or fruit onto your property, check that the site the plants are coming from has been searched for symptoms of myrtle rust.
- When any *Myrtaceae* plants arrive, check them for symptoms of myrtle rust. Check the plants again after 2 weeks (areas with average temperature above 20°C) to 4 weeks (areas below 15°C).
- If you suspect myrtle rust, please take a photo and report to MPI (0800 80 99 66) and don't move any plants, produce or machinery offsite until you hear back from MPI.
- MPI recommends good hygiene practices irrespective of whether you have *Myrtaceae* plants on your property or not. Wash equipment, machinery, clothing and hands before moving between properties.
- NZPPI have a range of useful guidance documents on their website: <http://nzppi.co.nz/>

## Walkers / Trampers

### Advice and information:

- Know your plants and those that are affected by myrtle rust. This serious fungal disease only affects plants in the myrtle family such as pōhutukawa, mānuka, kanuka, and ramarama. Remain vigilant for signs of myrtle rust. Symptoms to look out for on myrtle plants are:
  - bright yellow powdery eruptions appearing on the underside of the leaf (young infection)
  - bright yellow powdery eruptions on both sides of the leaf (mature infection)
  - brown/grey rust pustules (older spores) on older lesions
  - leaves that are buckled, twisted, or have died off.
- If you think you've seen the symptoms of myrtle rust, **do not touch it**. Call the MPI Exotic Pest and Disease Hotline as soon as practicable (0800 80 99 66).
  - If you have a camera or phone camera, take clear photos, including the whole plant, the whole affected leaf, and a close-up of the spores/affected area of the plant.
  - Note your location as accurately as possible, using GPS if available or reference against a landmark.
  - Don't touch it or try to collect samples as this may increase the spread of the disease.
  - For more information refer to MPI's website: [www.mpi.govt.nz](http://www.mpi.govt.nz)