# Beech Mistletoes in Abel Tasman National Park.

## Guide for plant detection and identification.

Three main species are present within Abel Tasman N. P. with the primary hosts being:

- 1. Peraxilla colensoi (Scarlet mistletoe): Silver beech
- 2. *Peraxilla tetrapetala* (Red mistletoe): Mountain and black beech, and occasionally red beech
- 3. Alepis flavida (Yellow mistletoe): Mountain and black beech.

Mistletoe plants can be detected by:

- 1. Obvious plant/stem development from host stem at low height.
- Different density and texture of foliage from the host tree foliage at mid-upper levels.
- 3. Obvious flowering of the plant, or evidence of flowers (petals) on the ground below the plant. Flowers present (most conspicuous) between late December- late February.

#### Plant details.

If a mistletoe plant is located, the following information should be recorded (for records and to facilitate relocation and possible monitoring).

#### Required:

- Location: Either GPS-derived coordinates or description (e.g. "c. 30 m from stoat trap AH065 to AH066. 2 m on left [southwest] of trap line).
- 2. **Mistletoe species** (e.g. Peraxilla tetrapetala or Red mistletoe)

#### Additional:

- 3. **Host species:** (e.g. silver beech)
- Plant height (approximate to nearest metre) on host: (e.g. 4m).
  To assist relocation.
- 5. **Plant size** (approximate in 3 dimensions: 2 x horizontal and 1 x vertical): (e.g. 0.5 x 0.75 x 1.0 m). To assist relocation

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## Peraxilla colensoi (Scarlet mistletoe)





## Key identification features

- Primary host: Silver beech.
- Shrub up to 3-5 m.
- Parasitizes further out on branches of its host than Peraxilla tetrapetala.
- Leaves to 8cm long, smooth, thick and have a leathery texture. Veins hardly evident and only the midrib is conspicuous.
- Flower heads have groups of 3-10 flowers and are up to 60 mm long.
- Without flowers present, young epiphytic broadleaf (Griselinea littoralis) can be mis-identified as P.colensoi. Subtle differences in branching habit to distinguish (experience required).

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# Peraxilla tetrapetala (Red mistletoe)





## Key identification features

- Primary host: Mountain/black beech. Occasionally red beech.
- Shrub up to 3 m.
- Parasitizes on inner branches of its host and clumps/stems commonly present on host stem.
- Leaves to 2.5cm long, diamond shaped.
- Veins hardly evident and only the midrib is conspicuous.
- Leaves often with blister galls.
- Flower heads are solitary or 2-4 together and are up to 40 mm long.

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# Alepis flavida (Yellow mistletoe)





## Key identification features

- Primary host: Mountain/black beech
- Shrub up to 2 m.
- Parasitizes further out on smaller branches of its host than Peraxilla spp.
- Leaves oval, leathery 2-6 cm long. Dull green and have a leathery texture.
- Veins are longitudinally parallel and visible on the lower surface of the leaf (hold up to light).
- Sparsely leafy compared to *Peraxilla spp*.
- Flower heads are small, orange-yellow.