

MOIST OPEN FOREST

Orara boronia

Boronia umbellata

Key features: Paired leaves with paired leaflets and a terminal (end) leaflet, hairy underneath. 4-petalled pink flowers. Strongly aromatic.

What is it? Open shrub, 1-2m tall with upright branches. Dense hairs cover under branchlets, leaves and new shoots.

Leaves: Fragrant, paired leaves divided into 1-2 pairs of leaflets with a longer leaflet at the end, 15-42mm long, 8-13mm wide.

Flowers: Clusters of dark pink, 4-petalled flowers, 7-10mm long come from the leaf bases. In spring and summer.

Similar species: Showy boronia (*B. ledifolia*) leaves 4-34mm long, 1-5mm wide. Soft boronia (*B. mollis*) found on sandstone, flowers pale to bright pink

How rare? Listed as “*Vulnerable*” on the BC Act.

Where is it? An understorey shrub in and around gullies in wet open forest. Found in **Chaelundi NP**.

Where can I see one? In Coffs Harbour Botanic Gardens



MOIST AND DRY OPEN FOREST

Johnson's cycad *Macrozamia johnsonii*

Key features: Palm-like with 3m fronds.

What is it? Short-trunked with many palm-like fronds. Trunk up to 1.5m tall and diameter 80cm.

Fronds: Stiff, bright green, glossy fronds to 3m long, with 150-250 leaf-segments, held on a straight stem – the portion of stem below the leaf-segments is very short.

Cones: Female plants: barrel-shaped cones on stout stems (40-90cm long, 12-19cm wide), with many red seeds. Male cones are smaller (30-45cm long, 8-10mm wide), spindle-shaped, numerous.

Similar species: *M. montana* trunk grows to 0.6m high, with leaves 1-2m long and only 20-70 leaf-segments per leaf

How rare? Listed as 'Endangered' on the BC Act.

Where is it? Sheltered ridges, steep southerly and easterly slopes in wet and dry eucalypt forest on shallow and rocky soils. Found in **Chaelundi NP / SCA**.

Where can I see one? In Coffs Botanic Gardens at GR120485



DRY OPEN FOREST

Sandstone rough-barked apple *Angophora robur*

Key features: Eucalypt-like but with paired / opposite large leaves. Smaller and more twisted than most angophoras.

What is it? Tree to 10m. Rough grey bark. Gnarled limbs.

Leaves: Large, up to 18cm long, 7.5cm wide. Paler below.

Flowers: White, clustered

Fruit: Large, ribbed fruits up to 1.6cm long and wide.

Similar species: Broad-leaf apple (*A. subvelutina*): fruits 7-10mm long and the ribs on the sides don't protrude above the top rim as far as *A. robur*

How rare? Listed as "Vulnerable" on TSC Act.

Where is it? Sandy / skeletal soils on sandstone (occasionally granite), with frequent outcrops of rock. Known from **Chaelundi NP**.

Where can I see one? Common on Clarence roadsides where sandstone rocks are exposed.



DRY OPEN FOREST AND SHRUBLAND

Kardomia prominens

Key features: Spreading fissured branches, many small leaves with oil glands.

What is it? Erect or slightly weeping shrub 1-2.5m tall. The many small branches spread widely, giving it an angular appearance. Stems and branches are strongly fissured / winged.

Leaves: Tiny elliptic 3.5-4mm long leaves, crowded along the branchlets, with prominent oil-glands underneath.

Flowers: White with five round petals 2.6-3mm long, recorded in April, September and November.



Similar species: *K. silvestris* stem flanges not winged

How rare? Listed as “*Critically Endangered*” on the BC Act.

Where is it? Dry open forest on steep hillsides in shallow, sandy soils. Often growing with large-fruited blackbutt. Found in **Nymboi-Binderay NP**.

Where can I see one?

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DRY OPEN FOREST AND WOODLAND

Woodland babingtonia

Kardomia silvestris

Key features: Tiny oval-shaped leaves with oil dots underneath.

What is it? Shrub to 2.5m tall with grey, slightly fibrous bark.

Leaves: Oval-shaped, 3-4.5mm long, 1.5-3.5mm wide, with small oil dots visible on lower surface.

Flowers: Solitary, white, 8mm wide, sporadically throughout year.

Similar species: *K. prominens* stem flanges winged

How rare? Listed as “*Endangered*” on the BC Act.

Where is it? Shrubby woodland on granite or rhyolite outcrops. Known from **Dorrigo NP**.



Where can I see one?

Source of images: © Andrew Benwell

STREAMBANKS AND DAMP SITES

Creek triplarina

Triplarina imbricata

Key features: Small, flat paired leaves. Menthol smell.

What is it? Open shrub, fine upright or weeping branches to 2.8m. Grey scaly bark.

Leaves: Paired leaves are flat, narrow-oval in shape, 4mm long, broader towards the tips with blunt ends. Large oil dots seen on the back. Strong menthol smell.

Flowers / fruits: Small white flowers, in pairs, from Nov-Dec, develop into half sphere-shaped capsules 2.4mm wide with tiny seeds.

Similar species: Tea trees (*Leptospermum* spp.) usually have flaky or papery bark and no menthol smell.

How rare? Listed as “*Endangered*” on the BC Act.

Where is it? Along watercourses in low open forest with water gum, or in montane bogs. Found in **Dorrigo NP** and **Nymbi-Binderay NP**.

Where can I see one? In Coffs Harbour Botanic Gardens



STREAMBANKS AND DAMP SITES

Trailing woodruff *Asperula asthenes*

Key features: Trailing and low growing. Spiral leaves. Tiny flowers in clusters.

What is it? Low, trailing perennial herb to 30cm long, often with short curved hairs.

Leaves: Spiral (whorls) of 4 leaves around the stem, mostly 10-20mm long, 2-5mm wide, with a narrow mid-rib.

Flowers: Tiny white fragrant star-shaped flowers in clusters from a central stem, in spring.

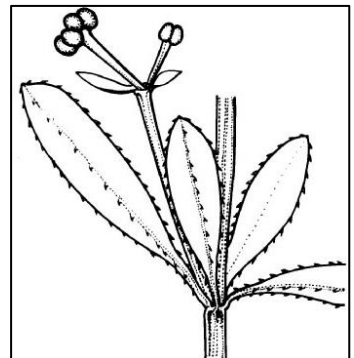
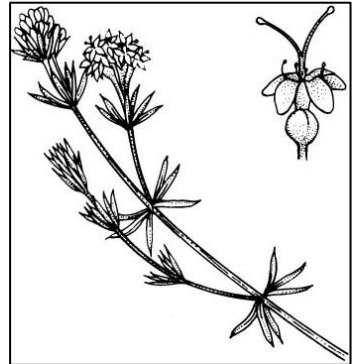
Similar species: Stiff woodruff (*A. ambleia*) leaves 2-5mm long. Mountain woodruff (*A. gunnii*) leaves 4-8mm long and often in whorls of 5 or 6 (not 4).

How rare? Listed as “*Vulnerable*” on the BC Act.

Where is it? Damp sites, often along riverbanks. Found in **New England NP**, **Chaelundi NP**.

Where can I see one?

Source of images: © Paul Segal, Botanic Gardens Trust



HEATH / SHRUBLAND

Melaleuca groveana

Key features: Shrub. Characteristic *Melaleuca* barrel-shaped fruits. Red new growth. Fluffy flowers

What is it? Shrub / small tree 2-5 (rarely to 10) m tall. Firm fibrous-papery bark.

Leaves: Narrow, curved leaves, 20-55mm long, 3-8mm wide alternating along stem

Flowers: Fluffy white flowers form on 2-3cm long spikes. Spring.

Fruit: Woody barrel-shaped fruit with a smooth outer surface, 4-7mm in diameter.

Similar species: *M. linariifolia* leaves 2-3.5mm wide, fruit 3-4mm in diameter.

How rare? Listed as “*Vulnerable*” on TSC Act.

Where is it? Heath and shrubland, often exposed sites / rocky outcrops / cliffs. Known from **Nymboi-Binderay NP**.

Where can I see one? Common on Scotts Mountain, Yarriabini NP

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