

# Pittosporum crassifolium

## COMMON NAME

karo

## SYNONYMS

*Pittosporum crassifolium* var. *strictum* Kirk

## FAMILY

Pittosporaceae

## AUTHORITY

*Pittosporum crassifolium* Banks et Sol. ex A.Cunn.

## FLORA CATEGORY

Vascular – Native

## ENDEMIC TAXON

Yes

## ENDEMIC GENUS

No

## ENDEMIC FAMILY

No

## STRUCTURAL CLASS

Trees & Shrubs - Dicotyledons

## NVS CODE

PITCRF

## CHROMOSOME NUMBER

2n = 24

## CURRENT CONSERVATION STATUS

2017 | Not Threatened

## PREVIOUS CONSERVATION STATUSES

2012 | Not Threatened

2009 | Not Threatened

2004 | Not Threatened

## BRIEF DESCRIPTION

Bushy small tree with greyish leathery oval leaves that are white underneath and clusters of small dark red flowers and large hard green fuzzy capsules inhabiting upper North Island. Leaves 5-7cm long, margins often rolled under. Fruit 2-3cm wide, splitting into three to display the black seeds in a yellow pith.

## DISTRIBUTION

Endemic. New Zealand, Great Barrier and North Island. In the North indigenous from Te Paki south to about White Cliffs, and East Cape. Widely naturalised further south to Wellington. Naturalised in the South, Stewart and Chatham Islands. Also naturalised on Norfolk Island, and in Hawaii.

## HABITAT

Coastal and offshore islands. Favouring steep slopes, cliff faces, boulder beaches, rock stacks and the margins of petrel burrowed land. Sometimes forms major canopy dominant on offshore islands, and on occasion can be a significant component of dune forest. Often an urban weed because its fruits/seeds are avidly taken by indigenous and exotic birds and dispersed widely.



*Pittosporum crassifolium* close up of inconstant male (perfect) flowers, Auckland, Mt Albert, Jesmond Terrace. Photographer: Peter J. de Lange, Date taken: 28/09/2006, Licence: CC BY-NC.



*Pittosporum crassifolium* showing emergent inconstant male flowers and subtending leaf like bracts, October, Coromandel. Photographer: John Smith-Dodsworth, Licence: CC BY-NC.

## DETAILED DESCRIPTION

Gynodioecious shrubs to small trees 1-10 m tall. Trunk stout, grey-black. often distinctly lenticillate. Branches and branchlets erect, dark grey-black or brown, immature branchlets densely invested in grey-white or white tomentum, this maturing black. Leaves alternate, usually densely crowded toward branch and branchlet apices. Petioles 4-14 x 1-3 mm, grey-white to grey-black tomentose. Leaves 30-100 x 10-30 mm, obovate to oblanceolate, apices obtuse to acute, base attenuate, margins entire, both surfaces densely white, grey-white or brown tomentose when young, soon glabrate above but remainly densely covered in dirty white or grey-white, appressed tomentum beneath, very coriaceous, margins thickened and often strongly revolute, surfaces often blistered with insect galls. Flowers in terminal 1-10-flowered fascicles; pedicels 6-50 mm, accrescent in fruit, tomentose, subtended by a whorl of leaves and numerous, 3-15 mm long, caducous, brown-tomentose, ciliate bud scales. Sepals 7-11 x 1.5-3 mm, oblong to linear-lanceolate, acute, greyish-white, dirty white or brown tomentose on outer surfaces, inner surface only toward the middle, margins ciliate. Petals 10-16 x 3-5 mm, oblanceolate to lanceolate, subacute, free to base, recurved at apices, dark red, purple, yellow, pink or white; stamens 5-9 mm long, anthers 1-3 x 0.5-1.5 mm, sagittiform to elliptic-oblong. Ovary 3-6 x 2-5 mm, white or grey-white tomentose; style 3-2.5 mm long, stigma capitate or 3-lobed truncate. Capsules woody, 10-30 x 10-30 mm, (2-)3(-4)-valved, woody, trigonous, sometimes 2-4-lobed

## SIMILAR TAXA

*Pittosporum fairchildii* Cheeseman is somewhat similar, differing from *P. crassifolium* by its glabrate rather than heavily tomentose foliage and capsules, both being sparsely covered in brownish tomentum. Furthermore the capsules of *P. fairchildii* are green to yellow-green rather than grey-black when mature, somewhat fleshy rather than woody, sparsely covered in brown tomentum rather than densely covered in grey-white tomentum and unlike *P. crassifolium* they scarcely (if ever) open, tending to fall intact from the tree.

## FLOWERING

August - October

## FLOWER COLOURS

Red/Pink, Violet/Purple

## FRUITING

September - August (Old fruits persist on trees)

## PROPAGATION TECHNIQUE

Easy from fresh seed. Often appears spontaneously in gardens as the seed is distributed far and wide by exotic and indigenous birds. An attractive species popular for its fast growth, robust grey-green leaves, sweetly scented flowers and remarkable resilience in coastal areas. Although frost sensitive, once established it will tolerate moderate frosts and snow fall.

## THREATS

Not Threatened. However, the fruits are eaten by rats, and on rodent infested offshore islands this species rarely regenerates.

## ETYMOLOGY

**pittosporum:** Pitch seed

**crassifolium:** From the Latin crassus 'thick and folius 'leaf'

## WHERE TO BUY

Commonly available from most garden centres.

## TAXONOMIC NOTES

Plants referred to this species from Raoul Island, in the Kermadecs are an as yet undescribed species, perhaps closest to the Norfolk Island *Pittosporum bracteolatum* Endl. The type of *P. crassifolium* appears to be the same as the later named *Pittosporum ralphii* Kirk. Further research is needed.

## ATTRIBUTION

Fact sheet prepared for NZPCN by P.J. de Lange 30 August 2006. Description adapted from Cooper (1956).

## REFERENCES AND FURTHER READING

Cooper, R.C. 1956: The Australian and New Zealand species of *Pittosporum*. *Annals of the Missouri Botanical Garden* 43: 87-188

## NZPCN FACT SHEET CITATION

Please cite as: de Lange, P.J. (Year at time of access): *Pittosporum crassifolium* Fact Sheet (content continuously updated). New Zealand Plant Conservation Network.

<https://www.nzpcn.org.nz/flora/species/pittosporum-crassifolium/> (Date website was queried)

## MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/pittosporum-crassifolium/>