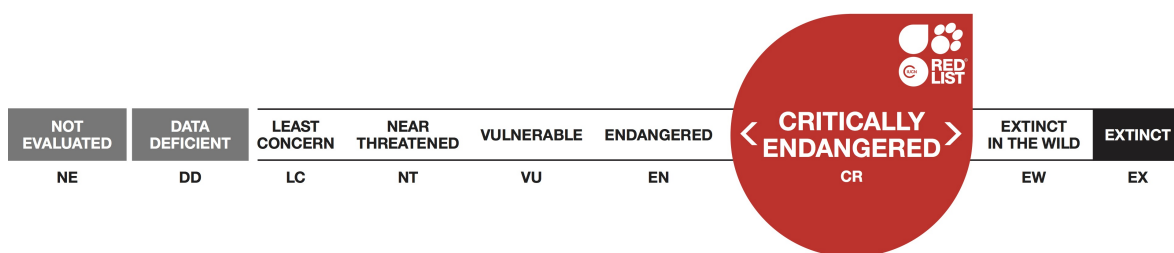




## *Pittosporum ornatum*

Assessment by: Gemmill, C., Veillon, J.-M., Amice, R., Cazé, H., Dumontet, V., Fleurot, D., Garnier, D., Gâteblé, G. & Maggia, L.



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## Taxonomy

Kingdom	Phylum	Class	Order	Family
Plantae	Tracheophyta	Magnoliopsida	Rosales	Pittosporaceae

**Taxon Name:** *Pittosporum ornatum* Tirel & Veillon

### Taxonomic Source(s):

Tirel, Ch. and Veillon, J.-M. 2002. *Flore de la Nouvelle-Calédonie, tome 24. Pittosporaceae*. Museum d'Histoire Naturelle, Paris.

## Assessment Information

**Red List Category & Criteria:** Critically Endangered B1ab(i,ii,iii,iv,v)+2ab(i,ii,iii,iv,v); C2a(i); D [ver 3.1](#)

**Year Published:** 2017

**Date Assessed:** July 23, 2015

### Justification:

*Pittosporum ornatum* is an endemic small tree of New Caledonia known only from the Bourail area. Discovered in 1981 by MacKee on Haute Téné, approximately ten individuals have been observed at the same locality by Dominique Fleurot (pers. comm. Dec. 2015). Frequent bushfires as well as degradation of habitat by Rusa Deer (*Rusa timorensis*) support a continuous decline of its area of occupancy, extent of occurrence, quality of habitat, number of locations and number of mature individuals and potentially extinction. Using criterion B, *P. ornatum* qualifies for listing as Critically Endangered (CR) B1ab(i,ii,iii,iv,v)+2ab(i,ii,iii,iv,v); C2a(i,ii); D.

### Previously Published Red List Assessments

1998 – Endangered (EN)  
<http://dx.doi.org/10.2305/IUCN.UK.1998.RLTS.T35276A9917422.en>

1998 – Endangered (E)

## Geographic Range

### Range Description:

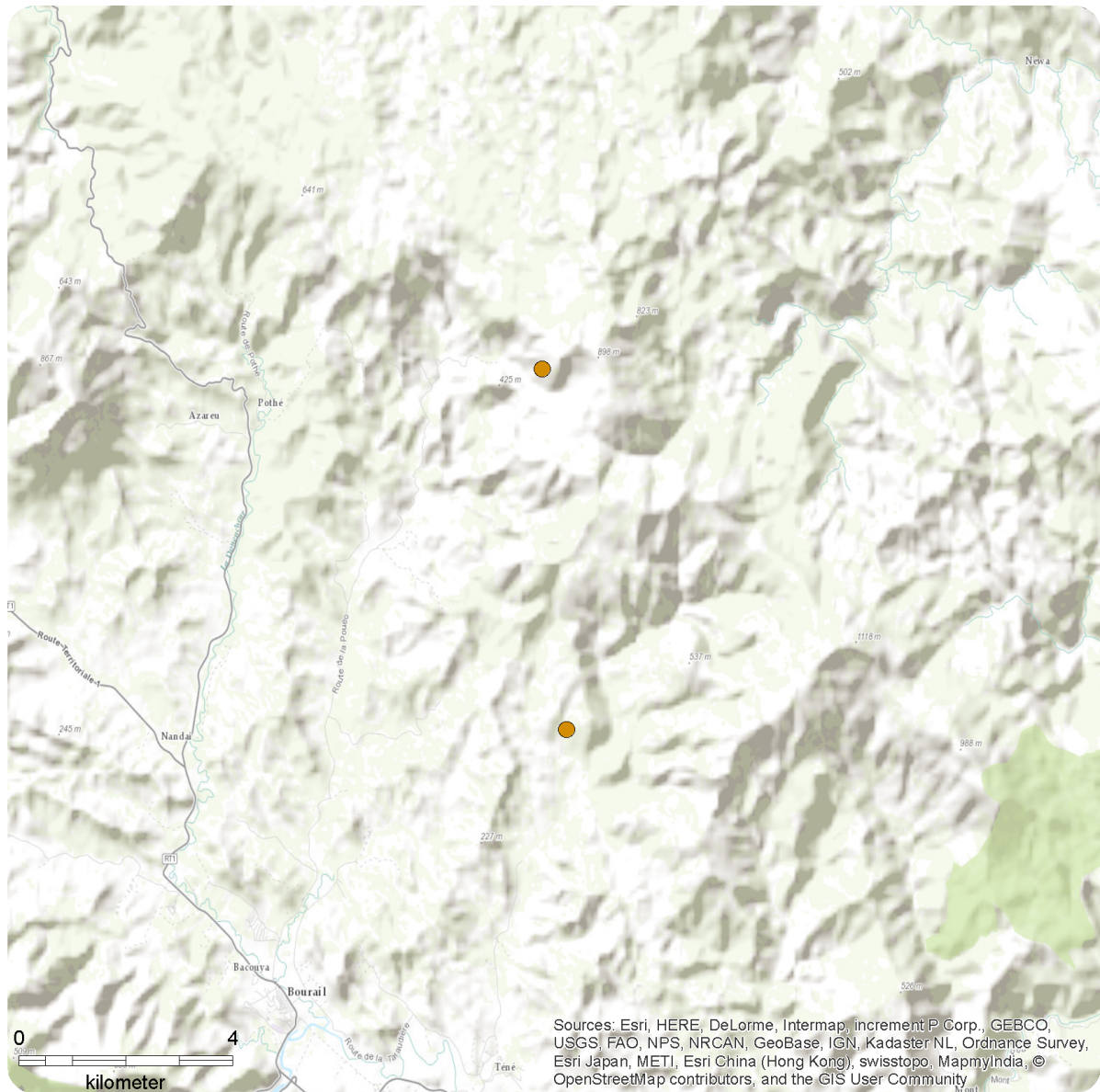
*Pittosporum ornatum* is an endemic small tree of New Caledonia, known only from the Bourail area.

### Country Occurrence:

**Native:** New Caledonia

# Distribution Map

*Pittosporum ornatum*



## Range

- Extant (resident)

Compiled by:

IUCN SSC New Caledonia Plants RLA



The boundaries and names shown and the designations used on this map do not imply any official endorsement, acceptance or opinion by IUCN.



## Population

According to last observations of Dominique Fleurot (pers. comm), the population of Haute-Téné is around 50 individuals, with an estimated population size of less than 250 mature individuals.

**Current Population Trend:** Decreasing

## Habitat and Ecology (see Appendix for additional information)

*Pittosporum ornatum* occurs on forest edges and humid forest on ultramafic substrates at the Haute Téné locality and on schist at the Mé Aoui locality.

**Systems:** Terrestrial

## Threats (see Appendix for additional information)

From its distribution, *Pittosporum ornatum* could be affected by bushfires, but also by Rusa Deer causing habitat damage and seedlings grazing.

## Conservation Actions (see Appendix for additional information)

*Pittosporum ornatum* is protected by legislation in Province Nord and Province Sud, but is not known from any protected areas. In order to confirm occurrence of this species on Mé Aoui, field surveys are required at this locality.

## Credits

**Assessor(s):** Gemmill, C., Veillon, J.-M., Amice, R., Cazé, H., Dumontet, V., Fleurot, D., Garnier, D., Gâteblé, G. & Maggia, L.

**Reviewer(s):** Tanguy, V.

**Contributor(s):** Butaud, J.-F.

**Facilitators(s) and Compiler(s):** Chanfreau, S.

## Bibliography

Endemia.nc. 2016. Faune et Flore de Nouvelle-Calédonie. Available at: <http://www.endemia.nc>.

Gomez, C., Mangeas, M., Curt, T., Ibanez, T., Munzinger, J., Dumas, P., Jérémy, A., Despinoy, M. and Hély, C. 2014. Wildfire risk for main vegetation units in a biodiversity hotspot: modeling approach in New Caledonia, South Pacific. *Ecology and Evolution* 5(2): 377-390. DOI: 10.1002/ece3.1317.

Hély-Alleaume. 2012. INC : Incendies et biodiversité des éco-systèmes en Nouvelle-Calédonie.

IUCN. 2017. The IUCN Red List of Threatened Species. Version 2017-3. Available at: [www.iucnredlist.org](http://www.iucnredlist.org). (Accessed: 7 December 2017).

Tirel, Ch. and Veillon, J.-M. 2002. *Flore de la Nouvelle-Calédonie, tome 24. Pittosporaceae*. Museum d'Histoire Naturelle, Paris.

## Citation

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## External Resources

For [Images and External Links to Additional Information](#), please see the [Red List website](#).

## Appendix

### Habitats

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Habitat	Season	Suitability	Major Importance?
1. Forest -> 1.6. Forest - Subtropical/Tropical Moist Lowland	-	Suitable	-

### Threats

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Threat	Timing	Scope	Severity	Impact Score
7. Natural system modifications -> 7.1. Fire & fire suppression -> 7.1.1. Increase in fire frequency/intensity	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.1. Ecosystem conversion 1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality		
8. Invasive and other problematic species, genes & diseases -> 8.1. Invasive non-native/alien species/diseases -> 8.1.2. Named species ( <i>Rusa timorensis</i> )	Ongoing	-	-	-
	Stresses:	1. Ecosystem stresses -> 1.2. Ecosystem degradation 2. Species Stresses -> 2.1. Species mortality 2. Species Stresses -> 2.2. Species disturbance 2. Species Stresses -> 2.3. Indirect species effects -> 2.3.7. Reduced reproductive success		

### Conservation Actions in Place

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

Conservation Actions in Place
In-Place Land/Water Protection and Management
Occur in at least one PA: No
Invasive species control or prevention: No
In-Place Species Management
Successfully reintroduced or introduced benignly: No
Subject to ex-situ conservation: No

### Research Needed

(<http://www.iucnredlist.org/technical-documents/classification-schemes>)

<b>Research Needed</b>
1. Research -> 1.1. Taxonomy
1. Research -> 1.2. Population size, distribution & trends

## Additional Data Fields

<b>Distribution</b>
Estimated area of occupancy (AOO) (km <sup>2</sup> ): 8
Continuing decline in area of occupancy (AOO): Yes
Extreme fluctuations in area of occupancy (AOO): No
Estimated extent of occurrence (EOO) (km <sup>2</sup> ): 8
Continuing decline in extent of occurrence (EOO): Yes
Extreme fluctuations in extent of occurrence (EOO): No
Number of Locations: 1
Continuing decline in number of locations: Yes
Extreme fluctuations in the number of locations: No
Lower elevation limit (m): 250
Upper elevation limit (m): 700
<b>Population</b>
Number of mature individuals: 12
Continuing decline of mature individuals: Yes
Extreme fluctuations: No
Population severely fragmented: No
No. of subpopulations: 1
Extreme fluctuations in subpopulations: No
All individuals in one subpopulation: Yes
<b>Habitats and Ecology</b>
Continuing decline in area, extent and/or quality of habitat: Yes
Generation Length (years): 0

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