



ACTION PLAN FOR THE INTEGRATED CONSERVATION OF CHILE'S THREATENED ENDEMIC TREES

Executive summary

ORGANISED BY CO-ORGANISERS



FACILITATION



FUNDED BY



SUPPORTERS



PARTICIPANTS



Facultad de Ciencias Forestales



Representatives of government bodies, NGOs, park rangers, protected areas, educators, academics, researchers, and botanical gardens participated in the workshop.

28
PARTICIPANTS

21
INSTITUTIONS



Planning workshop for the INTEGRATED CONSERVATION OF CHILE'S THREATENED ENDEMIC TREES

2-6 SEPTEMBER, 2024 | Concepción

The **Planning Workshop for the Integrated Conservation of Chile's Threatened Endemic Trees**, was held from the 2nd to the 6th of September 2024 in the facilities of the Faculty of Forestry Sciences of the University of Concepción, Chile.

GOAL

To develop an integrated action plan (*in situ* and *ex situ*) for 40 endemic and threatened tree species from the Juan Fernández Archipelago and the mainland Chile's biodiversity hotspot.

The workshop design follows the One Plan approach and the IUCN SSC CPSG's Principles and Steps, which supports the collaborative development of species conservation plans by diverse stakeholders who are willing and able to act on species conservation.

SCOPE

With the help of national experts, 40 threatened endemic tree species were selected, located in three different areas of Chile:



CENTRAL CHILE

Species that are present between the Coquimbo and Maule Regions. This area is characterised by sclerophyllous plant formations and a Mediterranean climate.

- *Archidasyphyllum excelsum*
- *Beilschmiedia berteriana*
- *Beilschmiedia miersii*
- *Jubaea chilensis*
- *Nothofagus glauca*
- *Nothofagus macrocarpa*
- *Pouteria splendens*

SOUTHERN CHILE

Species present from the Ñuble to La Araucanía Region. This area is home to a humid climate and temperate rainforest.

- *Citronella mucronata*
- *Eucryphia glutinosa*
- *Legrandia concinna*
- *Pitavia punctata*
- *Prumnopitys andina*

JUAN FERNANDEZ ARCHIPELAGO (JFA)

Species found in the high and low montane forests of Robinson Crusoe and Alejandro Selkirk Islands.

- *Boehmeria excelsa*
- *Centaurodendron dracaenoides*
- *Centaurodendron palmiforme*
- *Chenopodium nesodendron*
- *Coprosma oliveri*
- *Coprosma pyrifolia*
- *Cuminia eriantha*
- *Dendroseris berteriana*
- *Dendroseris gigantea*
- *Dendroseris litoralis*
- *Dendroseris macrantha*
- *Dendroseris macrophylla*
- *Dendroseris marginata*
- *Dendroseris micrantha*
- *Dendroseris neriifolia*
- *Dendroseris pinnata*
- *Dendroseris pruinata*
- *Dendroseris regia*
- *Drimys confertifolia*
- *Fagara externa*
- *Juania australis*
- *Myrceugenia (Nothomyrcia) fernandeziana*
- *Myrceugenia schulzei*
- *Rhaphithamnus venustus*
- *Robinsonia berteroi*
- *Sophora fernandeziana*
- *Sophora masafuerana*
- *Zanthoxylum mayu*



THREATS

During the workshop, 13 threats* that impact on the 40 tree species and their habitats were discussed. These threats were classified according to their geographical extent, severity and irreversibility in the three different areas covered by the Plan.

* Climate change was also identified as a threat, but was not classified in its own right due to its cross-cutting nature, and role as an aggravating factor in the other threats.



THREATS	CENTRE	SOUTH	JFA
Forest fires	Very high	Very high	Very high
Expansion of populated areas	Very high	Very high	Medium
Invasive non-native fauna	High	Medium	Very high
Invasive non-native flora	Medium	High	Very high
Poor standards of livestock management	High	High	High
Large-scale investment projects	High	High	High
Forestry plantations and encroachment by non-native forestry species	High	Very high	High
Agricultural expansion	Medium	High	Low
Illegal timber extraction	Medium	High	Low
Pathogens and pests	Medium	Medium	Low
Tourism and unregulated recreation	Medium	Medium	Medium
Water use	Medium	Low	Low
Indiscriminate extraction of non-timber forest products	Low	Low	Low



To establish objectives and actions, participants were divided into four working groups (WGs) according to threat grouping:

WG 1: Modification of natural systems

Forest fires | Expansion of populated areas | Large-scale investment projects | Agricultural expansion | Tourism and unregulated recreation

WG 2: Indiscriminate use of biological resources

Plantations and invasion by non-native forestry species | Illegal timber extraction | Water use | Indiscriminate extraction of non-timber forest products

WG 3: Problematic invasive species and pathogens

Invasive non-native fauna and flora | Pathogens and pests | Poor standards of livestock management

WG 4: Integrated management

Climate change | Demographic and genetic vulnerability arising from the impacts of threats



ACTION PLAN FOR THE INTEGRATED CONSERVATION OF CHILE'S THREATENED ENDEMIC TREES

VISION

Chile's endemic tree species and their habitats are conserved in an effective and integrated manner, valued by a society committed to natural heritage, under an effective regulatory framework, with participatory and sustainable governance and territorial planning.

GOAL

In a period of 10 years, the endemic tree species of continental and insular Chile undergo a decrease in their extinction risk and in the threats that they face, whilst their habitats are conserved.

OBJECTIVES



OBJECTIVE 1

Prevent, control and eradicate the presence and impact of invasive non-native species and of pathogens.

OBJECTIVE 2

Prevent and control the presence of livestock in areas of conservation importance.

OBJECTIVE 3

Reduce the incidence and impact (frequency and severity) of forest fires that affect threatened species and their habitats.

OBJECTIVE 4

Strengthen the actions of environmental institutions that focus on land use and planning related to endangered species and their habitats at the regional, district and community levels*.

*The actions necessary to achieve this objective at the *NATIONAL* level are outside the scope of this plan.*

OBJECTIVE 5

Educate, support and empower people and civil sector organisations in regard to the protection of endangered species and their habitats with a focus on environmental policy and land management.

OBJECTIVE 6

Safeguard native forests against encroachment from, and an increase in the area of, non-native forestry species.

OBJECTIVE 7

Raise awareness and engage local communities on the legal and sustainable use of natural resources associated with endangered species and their habitats.

OBJECTIVE 8

Develop and implement integrated management strategies (*in situ* and *ex situ*) for threatened tree species to enhance the resilience of populations and mitigate threats.

OBJECTIVE 9

Understand and reduce the impacts of climate change on endangered tree species.

A total of **74 actions** were established and are currently under review.



THE PLAN

The Action Plan is intended to be a resource for use by stakeholders relevant to the conservation of threatened endemic tree species in Chile, including, but not limited to:

- Workshop participants, as a record of the actions, initiatives and collaborations that have been discussed;
- State government agencies in the species' range, to help guide, inform and coordinate the development of local, regional or national initiatives for strategic planning and implementation of conservation actions;
- Individuals, institutions and *ex situ* facilities (botanical gardens, nurseries, seed banks, herbaria, etc.) working with the species, to help inform their priorities;
- Non-governmental conservation organisations and community groups, to guide and inform their priorities and work plans; and
- Donor organisations, to guide priority actions for financial support.

The Action Plan will be published on the IUCN SSC CPSG website www.cpsg.org, and on the BGCI website www.bgci.org. A section will be created on the BGCI website presenting the Workshop, its vision, goal, objectives, scope and main outcomes.

BE A PART OF THIS CONSERVATION STORY!

For more information, please contact us via email arbolesamenazadoschile@gmail.com

