

The current efforts to conserve the Mascarene floral diversity

Present situation

	Number of native species	% species endemic	Number of extinct species	Number of extant species
Angiosperms	671 (311)	46%	77 (42)	594 (269)
Mammals	5 (2)	40%	2 (1)	3 (1)
Birds	30 (24)	80%	18 (15)	12 (9)
Reptiles	17 (16)	94%	5 (5)	12 (11)
Butterflies	37 (5)	14%	4 (1)	33 (4)
Snails	125 (81)	65%	43 (36)	82 (45)

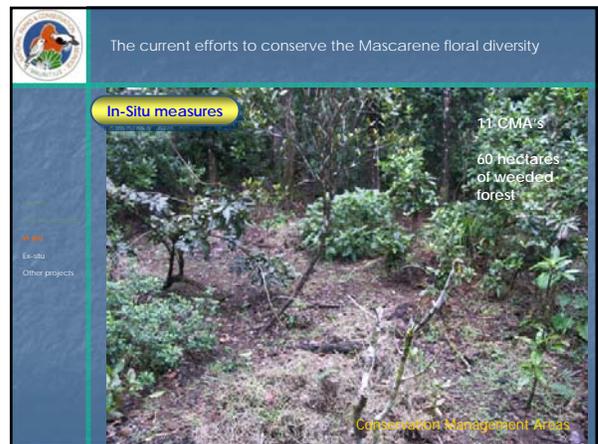
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Present situation

Series of measures put in place to reduce the rate of loss of native flora biodiversity

In-Situ measures

Ex-Situ measures



The current efforts to conserve the Mascarene floral diversity



Micro Management

In situ
 Ex-situ
 Other projects

The current efforts to conserve the Mascarene floral diversity

Ex-Situ measures

- The Native Plant Propagation Centre
- The Seed Bank
- Field Gene Banks
- Arboretums

In situ
 Ex-situ
 Other projects

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The Native Plant Propagation Centre



In situ
 Ex-situ
 Other projects

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The Greenhouse



Preparation Room



Mist Chamber

In situ
 Ex-situ
 Other projects

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The Shade house and Fernery



Heliconia mauritianum



Polystichum macrostigma



In situ
 Ex-situ
 Other projects

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The Shade house and Fernery

Around 200 species of flowering plants propagated with a production of around 3500 per year

29 of the 50 most critically endangered plants propagated



Helichrysum mauritianum

Around 60 species of ferns kept in the collection with more than 20 species propagated by spores or bulbils



Pilea trilobata

In situ
 Ex-situ
 Other projects

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Arboretum /Field gene Bank



Pandanus iceryi



Crinum mauritianum





Other projects:

- Herbarium
- Field
- Arboretum

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Re-introduction

Back In Conservation management areas

Islets





Other projects:

- Herbarium
- Field
- Arboretum

The current efforts to conserve the Mascarene floral diversity

Re-introduction

New population of *Lomatophyllum tomentosum* on Flat Island








Other projects:

- Herbarium
- Field
- Arboretum

The current efforts to conserve the Mascarene floral diversity

Re-introduction

Back In Conservation management areas

Islets

Arboretum

Public Awareness





Other projects:

- Herbarium
- Field
- Arboretum

The Millennium Seed Bank Project







Other projects:

- Herbarium
- Field
- Arboretum

The Millennium Seed Bank Project

Major aims

Collect and conserve 10% of the world's seed-bearing flora (24,000 sp.), principally from the drylands, by the year 2010.

Develop bilateral research, training and capacity-building relationships worldwide in order to support and to advance the seed conservation effort.





Other projects:

- Herbarium
- Field
- Arboretum

MSBP Country Partnerships

China
Australia
Chile, Mexico, U.S.A
Jordan, Lebanon, Saudi Arabia
Botswana, Burkina Faso, Egypt, Kenya, Madagascar, Namibia, Malawi, Mali, South Africa, Tanzania,
Less formal partnerships, e.g. Canada, Italy

Mauritius

The Mauritian project

"Ex situ conservation of the rare and threatened plants of Mauritius"

- To seed-bank 300 native species over three years in a national *ex situ* seed storage facility in Mauritius.
- To study germination constraints of the rarest species at the MSBP, to aid their recovery programmes.
- To increase the number of people trained in plant conservation techniques in Mauritius in order to achieve CBD targets.

The Core Team

Pushpa
 Nabilah
 Mario
 Raugit

The Major local Stakeholders

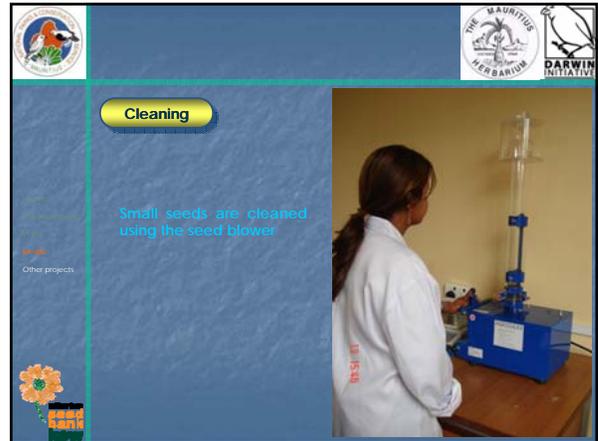
The Core Team

The Forestry Service

The Seed Lab

Collecting

To collect at the end of the project at least two populations for each species collected.



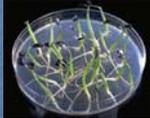
Banking

Dried Seeds are sent to by DHL to England

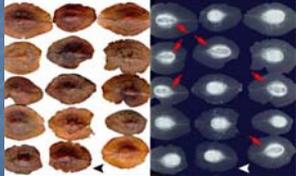



THE GAUNTLET HERBARIUM DARWIN INITIATIVE

Germination testing



Germination testing



X-ray analysis

THE GAUNTLET HERBARIUM DARWIN INITIATIVE

Herbarium vouchers




THE GAUNTLET HERBARIUM DARWIN INITIATIVE

Other Projects

The Protected Area Network

Plateforme scientifique de références des espèces végétales menacées des îles Mascareignes

The Fixon Conservation Management Area

THE GAUNTLET HERBARIUM DARWIN INITIATIVE