

CAPE TOWN'S UNIQUE BIODIVERSITY: SPECIES

Cape Town has a rich biodiversity!

Number of species in the city:



Spiderhead (Protea Family)

- Saved when the last plant was
- discovered this species is not self-sterile and so can set seed. Many other species cannot breed when there are too few individuals left (the "living dead"). Such species must be cloned, and have no ecological future. Quickly propagating a species to many individuals

rapidly result in extinction.

threat

Winecups

(Iris Family)

Endangered

extinction.

Multiple threats

in Shale Renosterveld.

Geometric

Endangered with

extinction.

Occurs in

Fynbos

Western

Leopard Toad

species rely

on urban

gardens

in order to

Alluvium

Tortoise

with

helps prevent inbreeding which otherwise could

_ Habitat loss is the greatest

Two thirds of our plant species are threatened by habitat transformation (mainly agriculture and

10 of our veld types and wetlands – the homes to our plants and animals - are Critically Endangered.

due to agriculture and alien plant invasion has drastically reduced the home of this species. It

to protect it and its food plants

🖵 Gardens conserve too

survives mainly in a few reserves specially created



By comparison, the entire United Kingdom has a total Of 1200 plant species and 67 endemic plant species

3350 Plants (190 endemic)

8 Freshwater Fish

Invertebrates

27 Amphibians (2 endemic)

(Unknown but more

than140 endemic)

364 Birds

83 Mammals

60 Reptiles

CAPE TOWN IS EXPERIENCING A **BIODIVERSITY CRISIS:**

- species of plants are GLOBALLY
- 319 species of plants are THREATENED **WITH EXTINCTION**
- species of vertebrates are THREATENED WITH EXTINCTION

Only 6 countries worldwide are recorded as having more threatened plant species than Cape

Gone forever

Wynberg Conebush (Protea Family)

- Last seen in 1807 in Hibberts Garden in England!
- This drawing is the only evidence that it ever existed.
- Some eight other species are extinct development



Town, a mere city!

Whorled Heath (Heath Family)

- Picked and built on -
- Rediscovered in five botanical gardens. Returned to the wild at Rondevlei, Kenilworth and
- Three other species extinct in the wild are being

Saved by botanical gardens

- bred at Kirstenbosch National Botanical Garden for reintroduction into the wild.
- The destruction of lowland Fynbos and Renosterveld is leaving species homeless. The only way to conserve them is to keep their habitat. Zoos and botanical gardens are simply not enough to maintain their genetic diversity

NUMBER OF ENDEMIC SPECIES PER VELD TYPE

THREATENED RED LIST **SPECIES BY VELD TYPE IN CAPE TOWN** EXTINCT CRITICALLY ENDANGERED ENDANGERED VULNERABLE NEAR THREATENED

Naturally rare: a local endemic

Table Mountain **Ghost Frog**

- Only found in three kloofs on Table
- Many species have really small distribution ranges as small as a single suburb in Cape Town. It is these local endemic species that are most threatened by
- Did you know that seven species of frog are on the City's threatened Red List?

🚖 Living dead?

Kraaifontein Spiderhead (Protea Family)

The last three plants of this North Pine



Its entire habitat has been destroyed.

Although cultivated at Kirstenbosch National Botanical Garden, there is no suitable site for its conservation. It is hoped that the Bracken Nature Reserve can conserve it: but what if it can't? How will we conserve this species and its symbionts?

CONSERVATION IS ABOUT GENES



This Endangered toad lives for 11 months in gardens

migrating to breeding ponds in August for a few

days. Urban areas can play an essential role

Genetic diversity is essential for maintaining healthy and resilient populations. Viable genetic populations must be conserved in the wild, seed banks and gene banks can only serve as a backup. Let's hope we never get to a stage when that is all we have left.

In nature everything is linked. If you take out one part, you may impact the whole system. Plant species need their pollinators, seed dispersers, predators, and associated fungi and bacteria in order to survive. Animal species need their gut bacteria, food plants, parasites and symbionts. Just as we need the animals and plants for our survival. Everything needs to be conserved together - you can't conserve bits and pieces.

WEB OF LIFE













