

TONGA – Country Data Dossier for Reducing Risk of Extinction Summary Sheet

Summary Table of Threatened Species Identified by the IUCN Red List

Mammals	Birds	Reptiles*	Amphibians	Fishes*	Molluscs*	Other Inverts*	Plants*
2	5	4	0	12	4	43	4

Amphibian, Mammal, Plant*, and Reptile* Threatened Species Identified by the IUCN Red List

In Tonga:

- No information is available for amphibian species
- Out of 22 mammal species, 2 are threatened or extinct
- Out of 37 plant species, 4 are threatened or extinct
- Out of 14 reptile species, 5 are threatened or extinct

List of Threatened Species Identified by the IUCN Red List

Tonga has:

- 1 Critically Endangered (CR) plant* species: *Aglaiia heterotricha*
- 1 Critically Endangered (CR) reptile* species: *Lepidodactylus euaensis*.

List of Critically Endangered Endemic Species

- Out of 1 Critically Endangered (CR) reptile species, Tonga has 1 endemic reptile species: *Lepidodactylus euaensis*
- Out of 1 Critically Endangered (CR) plant species, Tonga has 1 endemic plant species: *Aglaiia heterotricha*.

*Reptiles, fishes, molluscs, other invertebrates and plants: please note that for these groups, there are still many species that have not yet been assessed by the IUCN Red List and therefore, their status is not known. The figures presented for these groups should be interpreted as the number of species known to be threatened within those species that have been assessed to date, and not as the overall total number of threatened species for each group.

TONGA – Summary Table of Threatened Species Identified by the IUCN Red List, Amphibian, Mammal, Plant, and Reptile Threatened Species Identified by the IUCN Red List, List of Threatened Species Identified by the IUCN Red List, Bird Threatened Species, List of Threatened Bird Species, Species Protection Statistics (All PAs), and Critically Endangered Endemic Species

Summary Table of Threatened Speciesⁱ Identified by the IUCN Red List²

Mammals	Birds	Reptiles*	Amphibians	Fishes*	Molluscs*	Other Inverts*	Plants*
2	5	4	0	12	4	43	4

Amphibian, Mammal, Plant*, and Reptile* Threatened Species Identified by the IUCN Red List

In Tonga:

- No information is available for amphibian species³
- Out of 22 mammal species, 2 are threatened or extinct⁴
- Out of 37 plant species, 4 are threatened or extinct⁵
- Out of 14 reptile species, 5 are threatened or extinct

² IUCN 2015. *The IUCN Red List of Threatened Species. Version 2015.1.*

http://cmsdocs.s3.amazonaws.com/summarystats/2015_2_Summary_Stats_Page_Documents/2015_2_RL_Stats_Table_5.pdf. Accessed on 8 April 2016.

³ IUCN 2015. *The IUCN Red List of Threatened Species. Version 2015.1.* <http://www.iucnredlist.org>. As available on 1 June 2015.

⁴ Ibid.

⁵ IUCN 2015. *The IUCN Red List of Threatened Species. Version 2015.1.*

http://cmsdocs.s3.amazonaws.com/summarystats/2015_2_Summary_Stats_Page_Documents/2015_2_RL_Stats_Table_6b.pdf. Accessed on 8 April 2016.

Country Data Dossier for Aichi Target 12: Reducing Risk of Extinction

Class	Total number of native species (incl. EX)	Number of native endemics	% of species that are endemic	Number of Threatened species (CR+EN+VU)	% threatened or extinct	Threatened endemics	Critically Endangered species (CR)	Endangered species (EN)	Vulnerable species (VU)
Amphibian	-	-	-	-	-	-	-	-	-
Mammal	22	0	0	2	9	0	0	1	1
Plant*	37	-	-	4	11	-	1	0	3
Reptile*	14	-	-	5	36	-	1	2	2

List of Threatened Speciesⁱⁱ Identified by the IUCN Red List^{6 7}

Tonga has:

- 0 Critically Endangered (CR) amphibian species
- 0 Critically Endangered (CR) mammal species
- 1 Critically Endangered (CR) plant* species
- 1 Critically Endangered (CR) reptile* species

Legend

In **red**: Critically Endangered (CR) species

In **blue**: Endangered (EN) species

In black: Vulnerable (VU) species

⁶ IUCN 2015. *The IUCN Red List of Threatened Species. Version 2015.1*. www.iucnredlist.org. Accessed on 8 April 2016.

⁷ There might be discrepancies between Section 1: *Summary Table of Threatened Species Identified by the IUCN Red List*, Section 2: *Amphibian, Mammal, Plant and Reptile Threatened Species Identified by the IUCN Red List* and Section 3: *List of Threatened Species Identified by the IUCN Red List*. Information used in the tables in sections 1 and 2 was published on 1 June 2015 whereas information used in section 3 is from the IUCN Red List Online database, which is updated on a regular basis.

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Mammals (Class)

Phylum: Chordata, Kingdom: Animalia

Species ID	Order	Family	Genus	Species	Red List status	Red List criteria	Red List criteria version	Year assessed	Population trend
7669	CHIROPTERA	EMBALLONURIDAE	<i>Emballonura</i>	<i>semicaudata</i>	EN	B1ab(iii,iv,v)	3.1	2008	decreasing
41755	CETARTIODACTYLA	PHYSETERIDAE	<i>Physeter</i>	<i>macrocephalus</i>	VU	A1d	3.1	2008	unknown

Plants*(Kingdom)

Phylum: Tracheophyta

Species ID	Class	Order	Family	Genus	Species	Red List status	Red List criteria	Red List criteria version	Year assessed	Population trend
36626	MAGNOLIOPSIDA	SAPINDALES	MELIACEAE	<i>Aglaia</i>	<i>heterotricha</i>	CR	D	2.3	1998	N/A
38415	MAGNOLIOPSIDA	SAPINDALES	MELIACEAE	<i>Aglaia</i>	<i>saltatorum</i>	VU	A1c	2.3	1998	N/A
42064	CYCADOPSIDA	CYCADALES	CYCADACEAE	<i>Cycas</i>	<i>seemannii</i>	VU	A2cd+4cd	3.1	2010	decreasing
34092	PINOPSIDA	PINALES	PODOCARPACEAE	<i>Podocarpus</i>	<i>pallidus</i>	VU	D1+2	3.1	2013	unknown

Reptiles* (Class)

Phylum: Chordata, Kingdom: Animalia

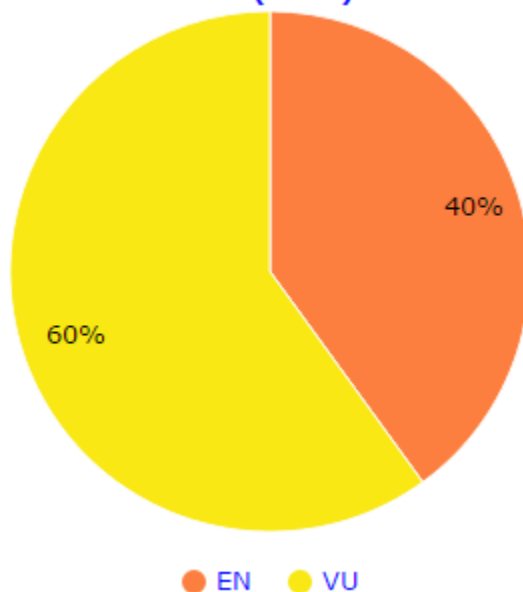
Species ID	Order	Family	Genus	Species	Red List status	Red List criteria	Red List criteria version	Year assessed	Population trend
3897	TESTUDINES	CHELONIIDAE	<i>Caretta</i>	<i>caretta</i>	VU	A2b	3.1	2015	decreasing
4615	TESTUDINES	CHELONIIDAE	<i>Chelonia</i>	<i>mydas</i>	EN	A2bd	3.1	2004	decreasing
6494	TESTUDINES	DERMOCHELYIDAE	<i>Dermochelys</i>	<i>coriacea</i>	VU	A2bd	3.1	2013	decreasing
178528	SQUAMATA	SCINCIDAE	<i>Emoia</i>	<i>lawesi</i>	EN	B1ab(iii,v)	3.1	2010	unknown
196575	SQUAMATA	GEKKONIDAE	<i>Lepidodactylus</i>	<i>euaensis</i>	CR	B1ab(iii)	3.1	2013	stable

Bird Threatened Species⁸

In Tonga, 10% of bird species are threatened.

Total number of species	Number of Threatened species (CR+EN+VU)	% threatened	Critically Endangered species (CR)	Endangered species (EN)	Vulnerable species (VU)
50	5	10	0	2	3

IUCN Red List status for globally threatened birds (GTBs)



List of Bird Threatened Species⁹

Tonga has 0 Critically Endangered (CR) bird species.

Legend

In red: Critically Endangered (CR) species

In blue: Endangered (EN) species

In black: Vulnerable (VU) species

⁸ BirdLife International. (2015) Country profile: Tonga. <http://www.birdlife.org/datazone/country>. Accessed on 8 April 2016.

⁹ Ibid.

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Species ID	Species	Common Name	Category
126	<i>Megapodius pritchardii</i>	Tongan Scrubfowl	EN
2616	<i>Alopecoenas stairi</i>	Shy Ground-dove	VU
3893	<i>Pterodroma alba</i>	Phoenix Petrel	EN
3010	<i>Numenius tahitiensis</i>	Bristle-thighed Curlew	VU
3923	<i>Procellaria parkinsoni</i>	Black Petrel	VU

List of Critically Endangered Endemic Species

Tonga has:

- 0 Critically Endangered (CR) endemic amphibian species¹⁰
- 0 Critically Endangered (CR) endemic mammal species¹¹
- 1 Critically Endangered (CR) endemic reptile species¹²
- 1 Critically Endangered (CR) endemic plant species¹³
- 0 Critically Endangered (CR) endemic bird species¹⁴

Amphibians, Mammals and Reptiles

Taxon ID	Class	Species
196575	REPTILIA	<i>Lepidodactylus euaensis</i>

Plants

Taxon ID	Phylum	Class	Species
36626	TRACHEOPHYTA	MAGNOLIOPSIDA	<i>Aglaia heterotricha</i>

Species Protection Statistics (All PAs) *¹⁵

Class	No. species	% protected	No. Globally Threatened (GT)	% GT protected	No. Endemic (E)	% E protected	No. Threatened Endemic (TE)	% TE protected
Aves	77	74.03	16	62.50	3	0.00	1	0.00
Mammalia	28	92.86	4	100.00	0	0.00	0	0.00
Amphibia	0	0.00	0	0.00	0	0.00	0	0.00

¹⁰ IUCN 2015. *The IUCN Red List of Threatened Species. Version 2015.1.* www.iucnredlist.org. As available on 1 June 2015.

¹¹ Ibid.

¹² Ibid.

¹³ Ibid.

¹⁴ BirdLife International. (2015) Country profile: Tonga. <http://www.birdlife.org/datazone/country>. Accessed on 8 April 2016.

* A species is counted as “protected” if its mapped range (from IUCN Red List) overlaps to some extent (>0% to 100%) with PA boundaries in the country. This does not mean that this protection is adequate.

¹⁵ Dubois, G., Bastin, L., Martinez-Lopez J., Cottam, A., Temperley, H., Bertzky, B., Graziano, M. (2015). The Digital Observatory for Protected Areas (DOPA) Explorer 1.0. EUR 27162 EN. Publications Office of the European Union, Luxembourg, 53 p. http://dopa-explorer.jrc.ec.europa.eu/dopa_explorer/. Accessed on 8 April 2016.

NOTES

ⁱ Threatened Species are species that are designated as Critically Endangered, Endangered or Vulnerable by the IUCN Red List. These criteria are explained here: <http://www.iucnredlist.org/technical-documents/categories-and-criteria>, and the criterion Critically Endangered is explained in details below.

ⁱⁱ IUCN Red List definition of Critically Endangered (CR)

A taxon is Critically Endangered when the best available evidence indicates that it meets any of the criteria A to E, and it is therefore considered to be facing an extremely high risk of extinction in the wild.

A. Reduction in population size based on any of the following:

1. An observed, estimated, inferred or suspected population size reduction of $\geq 90\%$ over the last 10 years or three generations, whichever is the longer, where the causes of the reduction are clearly reversible AND understood AND ceased, based on (and specifying) any of the following:

- (a) direct observation
- (b) an index of abundance appropriate to the taxon
- (c) a decline in area of occupancy, extent of occurrence and/or quality of habitat
- (d) actual or potential levels of exploitation
- (e) the effects of introduced taxa, hybridization, pathogens, pollutants, competitors or parasites.

2. An observed, estimated, inferred or suspected population size reduction of $\geq 80\%$ over the last 10 years or three generations, whichever is the longer, where the reduction or its causes may not have ceased OR may not be understood OR may not be reversible, based on (and specifying) any of (a) to (e) under A1.

3. A population size reduction of $\geq 80\%$, projected or suspected to be met within the next 10 years or three generations, whichever is the longer (up to a maximum of 100 years), based on (and specifying) any of (b) to (e) under A1.

4. An observed, estimated, inferred, projected or suspected population size reduction of $\geq 80\%$ over any 10 year or three generation period, whichever is longer (up to a maximum of 100 years in the future), where the time period must include both the past and the future, and where the reduction or its causes may not have ceased OR may not be understood OR may not be reversible, based on (and specifying) any of (a) to (e) under A1.

B. Geographic range in the form of either B1 (extent of occurrence) OR B2 (area of occupancy) OR both: 17

1. Extent of occurrence estimated to be less than 100 km², and estimates indicating at least two of a-c:

- a. Severely fragmented or known to exist at only a single location.
- b. Continuing decline, observed, inferred or projected, in any of the following:
 - (i) extent of occurrence
 - (ii) area of occupancy
 - (iii) area, extent and/or quality of habitat
 - (iv) number of locations or subpopulations
 - (v) number of mature individuals.

c. Extreme fluctuations in any of the following:

- (i) extent of occurrence
- (ii) area of occupancy

(iii) number of locations or subpopulations

(iv) number of mature individuals.

2. Area of occupancy estimated to be less than 10 km², and estimate indicating at least two of a-c:

a. Severely fragmented or known to exist at only a single location.

b. Continuing decline, observed, inferred or projected, in any of the following:

(i) extent of occurrence

(ii) area of occupancy

(iii) area, extent and/or quality of habitat

(iv) number of locations or subpopulations

(v) number of mature individuals.

c. Extreme fluctuations in any of the following:

(i) extent of occurrence

(ii) area of occupancy

(iii) number of locations or subpopulations

(iv) number of mature individuals.

C. Population size estimated to number fewer than 250 mature individuals and either:

1. An estimated continuing decline of at least 25% within three years or one generation, whichever is longer, (up to a maximum of 100 years in the future) OR

2. A continuing decline, observed, projected, or inferred, in numbers of mature individuals AND at least one of the following (a-b): 18

a. Population structure in the form of one of the following: (i) no subpopulation estimated to contain more than 50 mature individuals, OR (ii) at least 90% of mature individuals in one subpopulation.

b. Extreme fluctuations in number of mature individuals.

D. Population size estimated to number fewer than 50 mature individuals.

E. Quantitative analysis showing the probability of extinction in the wild is at least 50% within 10 years or three generations, whichever is the longer (up to a maximum of 100 years).