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Glossary

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GLOSSARY

This glossary is based on the 2001 IUCN Red List Categories and Criteria, Version 3.1., which were developed by the IUCN Species Survival Commission, Gland, Switzerland and Cambridge, UK. For additional information, please download the complete document from http://www.iucnredlist.org/technical-documents/categories-and-criteria.

Population and Population Size

The term 'population' is used in a specific sense in the Red List Criteria that is different from its common biological usage. Population is here defined as the total number of individuals of the taxon. For functional reasons, primarily owing to differences between life forms, population size is measured as numbers of mature individuals only. In the case of taxa obligately dependent on other taxa for all or part of their life cycles, biologically appropriate values for the host taxon are used.

Subpopulations

Subpopulations are defined as geographically or otherwise distinct groups in the population between which there is little demographic or genetic exchange (typically one successful migrant individual or gamete per year or less).

Extent of occurrence

Extent of occurrence is defined as the area contained within the shortest continuous imaginary boundary which can be drawn to encompass all the known, inferred or projected sites of present occurrence of a taxon, excluding cases of vagrancy. This measure may exclude discontinuities or disjunctions within the overall distributions of taxa (e.g. large areas of obviously unsuitable habitat) (but see 'area of occupancy', below). Extent of occurrence can often be measured by a minimum convex polygon (the smallest polygon in which no internal angle exceeds 180 degrees and which contains all the sites of occurrence).

Area of occupancy

Area of occupancy is defined as the area within its 'extent of occurrence' (see above) which is occupied by a taxon, excluding cases of vagrancy. The measure reflects the fact that a taxon will not usually occur throughout the area of its extent of occurrence, which

may contain unsuitable or unoccupied habitats. In some cases (e.g. irreplaceable colonial nesting sites, crucial feeding sites for migratory taxa) the area of occupancy is the smallest area essential at any stage to the survival of existing populations of a taxon. The size of the area of occupancy will be a function of the scale at which it is measured, and should be at a scale appropriate to relevant biological aspects of the taxon, the nature of threats and the available data. To avoid inconsistencies and bias in assessments caused by estimating area of occupancy at different scales, it may be necessary to standardize estimates by applying a scale-correction factor. It is difficult to give strict guidance on how standardization should be done because different types of taxa have different scalearea relationships.

Red List Categories

Extinct (EX)

A taxon is Extinct when there is no reasonable doubt that the last individual has died. A taxon is presumed Extinct when exhaustive surveys in known and/or expected habitat, at appropriate times (diurnal, seasonal, annual), throughout its historic range have failed to record an individual. Surveys should be over a time frame appropriate to the taxon's life cycle and life form.

Extinct in the Wild (EW)

A taxon is Extinct in the Wild when it is known only to survive in cultivation, in captivity or as a naturalized population (or populations) well outside the past range. A taxon is presumed Extinct in the Wild when exhaustive surveys in known and/or expected habitat, at appropriate times (diurnal, seasonal, annual), throughout its historic range have failed to record an individual. Surveys should be over a time frame appropriate to the taxon's life cycle and life form.

Critically Endangered (CR)

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

Endangered (EN)

A taxon is Endangered when the best available evidence indicates that it meets any of the criteria A to E for Endangered (see table below), and it is therefore considered to be facing a very high risk of extinction in the wild.

Vulnerable (VU)

A taxon is Vulnerable when the best available evidence indicates that it meets any of the criteria A to E for Vulnerable (see table below), and it is therefore considered to be facing a high risk of extinction in the wild.

Near Threatened (NT)

A taxon is Near Threatened when it has been evaluated against the criteria but does not qualify for Critically Endangered, Endangered or Vulnerable now, but is close to qualifying for or is likely to qualify for a threatened category in the near future.

Least Concern (LC)

A taxon is Least Concern when it has been evaluated against the criteria and does not qualify for Critically Endangered, Endangered, Vulnerable or Near Threatened. Widespread and abundant taxa are included in this category.

Data Deficient (DD)

A taxon is Data Deficient when there is inadequate information to make a direct, or indirect, assessment of its risk of extinction based on its distribution and/or population status. A taxon in this category may be well studied, and its biology well known, but appropriate data on abundance and/or distribution are lacking. Data Deficient is therefore not a category of threat. Listing of taxa in this category indicates that more information is required and acknowledges the possibility that future research will show that threatened classification is appropriate. It is important to make positive use of whatever data are available.

In many cases great care should be exercised in choosing between DD and a threatened status. If the range of a taxon is suspected to be relatively circumscribed, and a considerable period of time has elapsed since the last record of the taxon, threatened status may well be justified.

Not Evaluated (NE)

A taxon is Not Evaluated when it has not yet been evaluated against the criteria.

Source:

IUCN. 2001. IUCN Red List Categories and Criteria: Version 3.1. IUCN Species Survival Commission. IUCN, Gland, Switzerland and Cambridge, UK.



¹⁸⁶ *Edentata* no. 11(2) • 2010 Downloaded From: https://complete.bioone.org/journals/Edentata on 16 Jul 2025 Terms of Use: https://complete.bioone.org/terms-of-use

Summary of the five criteria (A–E) used to evaluate if a taxon belongs in a threatened category (Critically Endangered, Endangered or Vulnerable).

	Critically Endangered	Endangered	Vulnerable
A. Population reduction		red over the longer of 10 years o	
A1	≥ 90%	≥ 70%	≥ 50%
A2, A3 & A4	≥ 80%	≥ 50%	≥ 30%
		ected in the past where the cause	
	,	d specifying any of the following	5.
(a) direct obser			
	abundance appropriate to the ta		abitat quality
	otential levels of exploitation	ent of occurrence (EOO) and/or h	labitat quality
		athogens, pollutants, competitors	or parasites
		bected in the past where the cause	
		le, based on (a) to (e) under Al.	
		ne future (up to a maximum of 10	0 years) based on (b) to (e)
under Al.	1		
A4. An observed, estimated, inf	ferred, projected or suspected p	opulation reduction (up to a maxi	mum of 100 years) where the
		where the causes of reduction ma	
be understood OR may not	be reversible, based on (a) to (e	e) under Al.	
B. Geographic range in the f	form of either B1 (extent of o	occurrence) AND/OR B2 (are	a of occupancy)
B1. Extent of occurrence (EOO) $< 100 \text{ km}^2$	< 5,000 km ²	< 20,000 km ²
B2. Area of occupancy (AOO)	< 10 km ²	< 500 km ²	< 2,000 km ²
AND at least 2 of the followir	ıg:	I	I
(a) Severely fragmented, OR	8		
Number of locations	= 1	< 5	≤ 10
	-	ii) area of occupancy; (iii) area,	-
	ocations or subpopulations; (v)		extent and/or quanty or
		(ii) area of occupancy; (iii) nun	ber of locations or
	ber of mature individuals.		
C. Small population size and			
	decline		
		< 2,500	< 10.000
Number of mature	decline < 250	< 2,500	< 10,000
Number of mature individuals		< 2,500	< 10,000
Number of mature individuals AND either C1 or C2:		< 2,500 20% in 5 years or 2	< 10,000 10% in 10 years or 3
Number of mature individuals AND either C1 or C2:	< 250		
Number of mature individuals AND either C1 or C2: C1. An estimated continuing	< 250 25% in 3 years or 1 generation	20% in 5 years or 2	10% in 10 years or 3
 Number of mature individuals AND either C1 or C2: C1. An estimated continuing decline of at least: (up to a max. of 100 years i C2. A continuing decline AND 	< 250 25% in 3 years or 1 generation in future)	20% in 5 years or 2	10% in 10 years or 3
 Number of mature individuals AND either C1 or C2: C1. An estimated continuing decline of at least: (up to a max. of 100 years i C2. A continuing decline AND (a i) Number of mature 	< 250 25% in 3 years or 1 generation in future) (a) and/or (b):	20% in 5 years or 2 generations	10% in 10 years or 3 generations
 Number of mature individuals AND either C1 or C2: C1. An estimated continuing decline of at least: (up to a max. of 100 years i C2. A continuing decline AND (a i) Number of mature individuals in each 	< 250 25% in 3 years or 1 generation in future)	20% in 5 years or 2	10% in 10 years or 3
 Number of mature individuals AND either C1 or C2: C1. An estimated continuing decline of at least: (up to a max. of 100 years in C2. A continuing decline AND (a i) Number of mature individuals in each subpopulation: 	< 250 25% in 3 years or 1 generation in future) (a) and/or (b):	20% in 5 years or 2 generations	10% in 10 years or 3 generations
 Number of mature individuals AND either C1 or C2: C1. An estimated continuing decline of at least: (up to a max. of 100 years in C2. A continuing decline AND (a i) Number of mature individuals in each subpopulation: or 	< 250 25% in 3 years or 1 generation in future) (a) and/or (b):	20% in 5 years or 2 generations	10% in 10 years or 3 generations
 Number of mature individuals AND either C1 or C2: C1. An estimated continuing decline of at least: (up to a max. of 100 years i C2. A continuing decline AND (a i) Number of mature individuals in each subpopulation: or (a ii) % individuals in one 	< 250 25% in 3 years or 1 generation in future) (a) and/or (b): < 50	20% in 5 years or 2 generations < 250	10% in 10 years or 3 generations < 1,000
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 Number of mature individuals AND either C1 or C2: C1. An estimated continuing decline of at least: (up to a max. of 100 years in C2. A continuing decline AND (a i) Number of mature individuals in each subpopulation: or (a ii) % individuals in one subpopulation = (b) Extreme fluctuations in the D. Very small or restricted p Either: Number of mature 	< 250 25% in 3 years or 1 generation in future) (a) and/or (b): < 50 90–100% e number of mature individuals. opulation	20% in 5 years or 2 generations < 250 95–100%	10% in 10 years or 3 generations < 1,000 100%
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