Endangered species

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For other uses, see Endangered species (disambiguation).

An endangered species is a species which has been categorized as likely to become extinct. Precise definitions may vary between different groups; for example, the International Union for Conservation of Nature (IUCN) Red List, is the second-most-severe conservation status for wild populations assessed by the IUCN, after extinct in the wild.

As of 2021, the IUCN Red List assessed 38% assessed and 28% [per species is endangered] worldwide.[1] The figures for 1996 were respectively, 1102 and 1997.

Many countries have [conservation efforts] to protect endangered species, including habitat preservation, captive breeding and [reintroduction] in an effort to prevent species' extinction.

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Conservation status [edit]

Main article: Conservation status

The conservation status of species indicates the likelihood that a species will become [extinct]. Many factors are considered when assessing the conservation status of a species, e.g., is each species's population declining, what is the quality of its habitat, and how many individuals are in each population. Worldwide, governments are working to [reduce] the rate of species loss, for example, by [habitat conservation] and [creating] laws to protect critically endangered species.

Over 40% of the world's species are estimated to be [facing] extinction.[3] Governments have signed international treaties such as the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) and the Convention on Biological Diversity to [protect] species. Governments have also created national laws to protect species, such as the Endangered Species Act in the United States, and [habitat] conservation programs. Many [nonprofit organizations] are working to protect species, such as the World Wildlife Fund and the Wildlife Conservation Society. Scientists are working to [understand] the biology of species, and [captive breeding] programs are working to [prevent] species from becoming extinct.

IUCN Red List [edit]

Though drafted in the 1940s, the IUCN Red List is considered the most comprehensive, worldwide, system for classifying the conservation status of species. Species are placed into groups, or categories, based on how much they have been researched and how much risk of extinction they face. The IUCN Red List has nine categories: not evaluated, data deficient, least concern, near threatened, vulnerable, endangered, critically endangered, extinct in the wild, and extinct.[4] Species are evaluated based on how they meet specific criteria, such as how quickly their population is declining or how large their population is.[5] Species that have been classified are then placed into one of the nine categories.[6] Species that do not meet specific criteria are placed in the not evaluated or data deficient categories.[7] Species that are not in danger of extinction are placed in the least concern category.[8] Species that are likely to become endangered in the near future are placed in the near threatened category.[9] Species that are facing a very high risk of extinction in the wild are placed in the critically endangered category.[10] Species that have become extinct in the wild are placed in the extinct in the wild category.[11] Species that have no living members are placed in the extinct category.[12]

Criteria for Endangered (EN)[13] [edit]

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

1. An observed, estimated, inferred or suspected reduction of **≥ 70% 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:
   1. direct observation
   2. an index of abundance appropriate for the taxon
   3. a decline in area of occupancy, extent of occurrence or quality of habitat
   4. actual or potential levels of exploitation
   5. the effects of [introduced taxa], hybridization, [pathogens], pollutants, competitors or parasites
2. An observed, estimated, inferred or suspected reduction of **≥ 70% 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 the following:
   1. direct observation
   2. an index of abundance appropriate for the taxon
   3. a decline in area of occupancy, extent of occurrence or quality of habitat
   4. actual or potential levels of exploitation
   5. the effects of [introduced taxa], hybridization, pathogens, pollutants, competitors or parasites
3. A population reduction observed, estimated, inferred 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 the following:
   1. direct observation
   2. an index of abundance appropriate for the taxon
   3. a decline in area of occupancy, extent of occurrence or quality of habitat
   4. actual or potential levels of exploitation
   5. the effects of [introduced taxa], hybridization, pathogens, pollutants, competitors or parasites

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

1. **Severely fragmented** or known to exist at **no more than 5000 km²**, and estimates indicating at least two of a–c:
   1. Extent of occurrence estimated to be less than 5000 km²
   2. **Continuing decline**, observed, inferred or projected, in any of the following:
      1. extent of occurrence
      2. area of occupancy
      3. area, extent and/or quality of habitat
      4. number of locations or subpopulations
      5. number of mature individuals
   3. **Extreme fluctuations** in any of the following:
      1. extent of occurrence
      2. area of occupancy
      3. number of locations or subpopulations
      4. number of mature individuals
2. **Extreme fluctuations** in number of locations or subpopulations.

C) Population estimated to number fewer than 2,500 mature individuals and either:

1. An estimated continuing decline of **at least 25% within five years or three generations**, whichever is longer, (up to a maximum of 100 years in the future), OR
2. Extreme fluctuations in number of mature individuals.

D) Population estimated to number fewer than 250 mature individuals.

E) Quantitative analysis showing the probability of extinction in the wild is at least 20% within 20 years or five generations, whichever is the longer (up to a maximum of 100 years).

Endangered Species Act [edit]

Robert Endangered/Threatened/Recovered

The Endangered Species Act is the United States ' system for listing species as endangered or threatened.[14] The Fish and Wildlife Service (FWS) and the National Marine Fisheries Service (NMFS) are responsible for classifying and protecting species.[15] Species are classified as endangered or threatened based on how much risk of extinction they face.[16] Species that are endangered are those that are in danger of extinction throughout all or a significant portion of their range.[17] Species that are threatened are those that are likely to become endangered in the near future.[18] The ESA also requires the FWS and NMFS to designate critical habitat for listed species.[19] Critical habitat is the area that is essential for the conservation of a species.[20] The ESA also requires the FWS and NMFS to develop and implement recovery plans for listed species.[21] Recovery plans are documents that describe the actions that are needed to help a species recover.[22] The ESA also requires federal agencies to consult with the FWS or NMFS before taking any action that may affect a listed species or its critical habitat.[23] This consultation process is known as Section 7 consultation.[24] The ESA also prohibits the taking of listed species.[25] Taking is defined as harassing, harming, pursuing, hunting, shooting, wounding, killing, trapping, capturing, or collecting any listed species.[26] There are some exceptions to the taking prohibition, such as for scientific research or for the incidental taking of a species in the course of otherwise lawful activities.[27] The ESA has been credited with preventing the extinction of many species.[28] However, it has also been criticized for its impact on economic development and property rights.[29] Some people argue that the ESA is too restrictive and that it has led to the loss of jobs and economic opportunities.[30] Others argue that the ESA is not restrictive enough and that it has failed to protect many species from extinction.[31]

Captive breeding [edit]

Main article: Captive breeding

Captive breeding is the process of breeding rare or endangered species in human-controlled environments, usually with the goal of reintroducing individuals into the wild. Captive breeding programs are often established when a species' population has declined to a critical level, or when habitat destruction has made it impossible for the species to survive in its natural environment.[32] The first captive breeding program was established in 1907 for the European bison.[33] The program was successful in increasing the bison's population, and it has since been reintroduced into the wild in several countries.[34] Captive breeding programs can be challenging to manage. They require a large amount of space, money, and expertise.[35] Animals in captivity may also lose their natural behaviors and become dependent on humans for food and shelter.[36] Despite these challenges, captive breeding programs have been successful in saving many species from extinction.[37] Some well-known examples include the California condor, the black-footed ferret, and the golden lion tamarin.[38]

Private farming [edit]

Whereas poaching substantially reduces endangered species' populations, legal, for-profit, private farming of species can increase their populations.[39] Farming can also [preserve] species' habitats.[40] Controversially, farming can also [increase] the popularity of species' products, which can [increase] demand for them.[41] Some [economists] argue that farming can [increase] the supply of species' products, which can [reduce] the price and [reduce] the incentive to poach.[42] Others argue that farming can [increase] demand for species' products, which can [increase] the incentive to poach.[43] Some species farms [release] animals into the wild to [supplement] wild populations.[44] Others [sell] animals for their meat, fur, or other products.[45] Some species farms [breed] animals for the pet trade.[46] Some species farms [research] animal biology and [develop] new technologies.[47] Some species farms [provide] [ecotourism] opportunities.[48]

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Through endangerment, the [Florida panther] is now genetically depleted.

1870s photo of American bison. Hunting reduced the population to 750.

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Loggerhead sea turtle

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See also [edit]

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- Biodiversity
- Cultural trait
- critically endangered
- endangered plant of Europe
- Endangered Species Act
- Ex situ conservation
- Extinction
- Holocene extinction
- Habitat fragmentation
- Hawaiian honeycreeper conservation
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Code of Hammurabi
Endangered species
The Human Zoo (Latin pantheon), a list of endangered deities

Red-crowned crane, an endangered species

Asian tiger, hunted to near extinction, but now endangered

American bison, an endangered species

Kemp's ridley sea turtle, an endangered species

Javan rhinoceros, an endangered species

Black eagle

American bison

The Wyrm, Aurora crest component on [Voltaire] at the Magic Kingdom of Orlando

Invasive species [edit]

Main article: Introduced species

Invasive species are organisms which are non-native to an area and can disrupt the ecosystem in such an area that native species become endangered. Such organisms can be introduced accidentally or deliberately. Accidental introductions can occur when the native species be food or prey to the invasive species. Deliberate introductions can occur when humans introduce species for [agriculture], [pest control], or [ornamental] purposes.

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American bison, an endangered species

Kemp's ridley sea turtle, an endangered species

Javan rhinoceros, an endangered species

Black eagle

American bison

The Wyrm, Aurora crest component on [Voltaire] at the Magic Kingdom of Orlando

Threatened species [edit]
Extinct Extinct in the wild (EW) Critically Endangered (CR) Endangered (EN) Vulnerable (VU) Near Threatened (NT) Least Concern (LC) Data Deficient (DD) Not Evaluated (NE)
Extinct Extinct in the wild Critically Endangered Endangered Vulnerable Near Threatened Least Concern Data deficient
Not fully assessed
Conservation
Threatened species by region
Ecology portal Environment portal extinct and endangered species portal
Zoos, aquariums and wildlife parks [show]
Categories: Endangered species | Rare by conservation status | IUCN Red List | Environmental conservation | Habitat | IUCN Red List endangered species

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