

I'm not a bot





























Some of those organisms facing a very high risk of extinction "Endangered" redirect here. For other uses, see Endangered (disambiguation) and Endangered species (disambiguation). For lists, see Lists of IUCN Red List endangered species. Conservation status by IUCN Red List category Extinct Extinct (EX) (list) Extinct in the Wild (EW) (list) Threatened Critically Endangered (CR) (list) Endangered (EN) (list) Vulnerable (VU) (list) Lower Risk Near Threatened (NT) (list) Conservation Dependent (CD) (list) Least Concern (LC) Other categories Data Deficient (DD) (list) Not Evaluated (NE) Related topics International Union for Conservation of Nature (IUCN) IUCN Red List NatureServe Status Lists of organisms by population Comparison of Red List classes above NatureServe status below Golden Lion tamarin, an endemic and one of the endangered species saved from extinction in Brazil A visual representation of the declining percentages of endangered plant and animal species in Brazil from 2014 to 2022. The sidebar graph highlights the contrast between plant and animal conservation efforts. The California condor is a critically endangered species. Note the tiny tags used for population monitoring. An endangered species is a species that is very likely to become extinct in the near future, either worldwide or in a particular political jurisdiction. Endangered species may be found at the bottom of the IUCN Red List of threatened species. It includes taxa which are considered to be at greater risk of global extinction than those categorized as vulnerable. Species listed as endangered include the Mexican wolf, the most endangered subspecies of the North American gray wolf. Approximately 143 are living in the wild. Though labeled a list, the IUCN Red List is in system of assessing the global conservation status of species that include: Data Deficient (DD) species for which more data and assessment is required before their situation may be determined – as well species comprehensively assessed by the IUCN's species assessment process.[12] The species under the index include: mammals, birds, amphibians, cycads, and corals. Those species of "Near Threatened" (NT) and "Least Concern" (LC) status have been assessed and found to have relatively robust and healthy populations, though these may be in decline. Unlike their more general use elsewhere, the List uses the terms "endangered species" and "threatened species" with particular meanings: "Endangered" (EN) species lie between "Vulnerable" (VU) and "Critically Endangered" (CR) species. In 2012, the IUCN Red List listed 3,079 animal and 2,655 plant species as endangered (EN) worldwide.[12] Brazil is one of the most biodiverse countries in the world, if not the most. It houses not only the Amazon forest but the Atlantic forest, the savanna-like Cerrado among other biomes.[13] Due to the high density of some of its well-protected rainforests, wildlife trafficking, which along with deforestation is one of the biggest endangerment drivers in Brazil, has become a challenge. Brazil has a broad legal system meant to protect the environment, including its Constitution,[14] as well as several federal, state and local government agencies tasked with protecting the fauna and flora, fining individuals or companies linked to environmental crimes and confiscating illegally taken wildlife. Though such agencies can collect their data, each system operates relatively on its own when it comes to wildlife trafficking. However, both the agencies and the NGO's working in Brazil agree that the birds account for about 80% of trafficked species in the country.[15] The relation between wildlife smuggling, poaching and illegal logging has been pointed out by researchers, who claim that the latter activity provides the financial support to the disbanding of environment agencies and the repeal of laws in Brazil under the presidency of Jair Bolsonaro as one of the reasons behind a surge in the number of endangered species.[17] In one occasion during his presidency some fines totaling US\$3.1 billion on environment criminals were revoked and at least one fine (related to illegal fishing) imposed on Bolsonaro himself was cancelled and the agent who fined him was demoted.[18] In the past, Brazil has successfully saved the endemic golden lion tamarin from extinction. Massive campaigns to raise awareness among people by NGOs and governments, which included printing depictions of the golden lion tamarin in the 20 reais Brazilian banknotes (still in circulation), are credited with getting the species out of the critically endangered animals list.[19][20] There is data from the United States that shows a correlation between human populations and threatened and endangered species. Using species data from the Database on the Economics and Management of Endangered Species database and the period that the Endangered Species Act (ESA) has been in existence, 1970 to 1997, a table was created that suggests a positive relationship between human activity and species endangerment.[21] Carbon dioxide in Earth's atmosphere is asserted to be one of the leading causes of animal endangerment. According to the US National Park Service:[22] If we can sufficiently reduce greenhouse gas emissions, many of them will still have a chance to survive and recover. NASA scientist James Hansen has warned that in order to maintain a climate similar to that under which human civilization developed and similar to that which so many organisms are adapted, we need to keep atmospheric CO2 concentrations below 350 ppm. Exceeding this level would involve a rapid rise in sea levels, drought, and extreme weather events. Under the Endangered Species Act of 1973 in the United States, species may be listed as "endangered" or "threatened". The Salt Creek tiger beetle is an example of an endangered subspecies protected under the ESA. The US Fish and Wildlife Service, as well as the National Marine Fisheries Service are held responsible for classifying and protecting endangered species. They are also responsible for adding a particular species to the list, which can be a long, controversial process.[23] Some endangered species laws are controversial. Typical areas of controversy include criteria for placing a species on the endangered species list and rules for removing a species from the list once its population has recovered. Whether restrictions on land development constitute a "taking" of land by the government; the related question of whether private landowners should be compensated for the loss of uses of their areas; and obtaining reasonable exceptions to protection laws. Also lobbying from hunters and various industries like the petroleum industry, construction industry, and logging, has been an obstacle in establishing endangered species laws. The Bush administration lifted a policy that required federal officials to consult a wildlife expert before taking actions that could damage endangered species. Under the Obama administration, this policy was reinstated.[24] Being listed as an endangered species can have negative effect since it could make a species more desirable for collectors and poachers.[25] This effect is potentially reducible, such as in China where commercially farmed turtles may be reducing some of the pressure to poach endangered species.[26] Another problem with the listing of species is its effect of inciting the use of the "shoot, shovel, and shut-up" method of clearing endangered species from an area of land. Some landowners currently may perceive a diminution in value for their land after finding an endangered animal on it. They have allegedly opted to kill and bury the animals or destroy habitat silently. Thus removing the problem from their land, but at the same time contributing to the extinction of the species. In the United States, 98% of listed species have been delisted and recovered[28] and 93% of listed species in the northeastern United States have a recovering or stable population.[29] Currently, 1,556 endangered species are under protection by government law. This approximation, however, does not take into consideration the species threatened with endangerment that are not included under the protection of laws like the Endangered Species Act. According to NatureServe's global conservation status, approximately thirteen percent of vertebrates (excluding marine fish), seventeen percent of vascular plants, and six to eighteen percent of fungi are considered imperiled.[30]:415 Thus, in total, between seven and eighteen percent of the United States' known animals, fungi and plants are near extinction.[30]:416 This total is substantially more than the number of species protected in the United States under the Endangered Species Act. Bald eagle American bison Ever since humankind began hunting to preserve itself, over-hunting and fishing have been a large and dangerous problem. Of all the species who became extinct due to interference from humankind, the dodo, passenger pigeon, great auk, Tasmanian tiger and Steller's sea cow are some of the more well known examples; with the bald eagle, grizzly bear, American bison, Eastern timber wolf and sea turtle having been poached to near-extinction. Many began a food sources seen as necessary for survival but became the target of sport. However, due to major efforts to prevent extinction, the bald eagle, or *Haliaeetus leucocephalus* is now under the category of Least Concern on the red list.[31] A present-day example of the over-hunting of a species can be seen in the oceans as populations of certain whales have declined to near extinction levels. Whaling was once a profitable business, but in the early 20th century, whaling nations signed the International Whaling Commission (IWC). But even though all of these movements have been put in place, countries such as Japan continue to hunt and harvest whales under the claim of "scientific purposes" [32] Over-hunting, climatic change and habitat loss leads in landing species in endangered species list. It could mean that extinction rates could increase to a large extent in the future. Endangered species are addressed through Canada's Species at Risk Act. A species is deemed threatened or endangered when it is on the verge of extinction or extinction. Once a species is deemed threatened or endangered, the Act requires that a recovery plan to be developed that indicates how to stop or reverse the species' population decline.[33] As of 2021, the Committee on the Status of Endangered Wildlife in Canada has assessed 369 species as being endangered in Canada. The World Wide Fund–Nature raises concern in the longevity of the following animal species: the Red Panda, the Bengal Tiger, the Ganges River Dolphin, the Asian Elephant.[34] India signed the Wildlife Protection Act and also joined the Convention on the International Trade in 1976, to prevent poaching from harming its wildlife.[35] Main article: Introduced species The introduction of non-indigenous species to an area can disrupt the ecosystem to such an extent that native species become endangered. Such introductions may be termed alien or invasive species. In some cases, the invasive species compete with the native species for food or prey on the natives. In other cases, a stable ecological balance may be upset by predation or diseases leading to unexpected species declines. New species may also carry diseases to which the native species have no exposure or resistance.[36] See also: Effects of climate change The World Wildlife Fund (WWF) emphasizes that our planet is warming at a rate faster than any time in the past 100 years, necessitating immediate action to not only combat climate change but also to protect biodiversity. Climate change is increasing the risk of extinction of many species, their genetic diversity, and how changes in their environment may affect their survival.[38] The International Union for Conservation of Nature (IUCN) reports that the approximately 1°C rise in mean global temperature due to human activities is causing serious impacts on species, including changes in abundance, genetic composition, behavior, and survival. The IUCN stresses the importance of environmental policies aimed at reducing CO<sub>2</sub> emissions to lessen the impact of climate change on species. Tools like the IUCN Red List and guidelines for assessing species' vulnerability to climate change are vital for conservation efforts.[39] Image showing one of many fish kills (in this case Tilapia) induced by effects of climate change. In addition, climate change can lead to species decreasing in areas where they once thrived, by being forced to migrate or even going extinct from inhospitable conditions, invasive species, and fragmentation. A study cited by WWF found that one in six species is at risk of extinction due to climate change if no action is taken. The phenomenon of species shifting their ranges in response to changing climates, finding new or shrinking habitats, illustrates the direct impact of global warming on biodiversity.[37] Another major concern is rising ocean acidity caused from excess CO<sub>2</sub> in the atmosphere. This creates acidic conditions in the ocean which creates an inhospitable environment for fish, plants, and other keystone species such as coral reefs[40] For example, the Emperor Penguins, which rely on Antarctic sea ice for breeding, shelter, and food, are directly threatened by the melting of ice sheets. Similarly, the Mount Rainer white-tailed ptarmigan, adapted to alpine mountaintops, is being displaced by shrubs growing up the surrounding slopes. The warming temperatures has caused mass evaporation, leaving the sea much more saline and with much more exposed plains. This not only damages air quality but also has caused fish kills to accumulate as shown pictured below. This has made the system inhospitable to the birds and endangered species relying upon it [42] The whole, Asia's most endangered top predator, is on the edge of extinction. Main article: Captive breeding Captive breeding is the process of breeding rare or endangered species in human controlled environments with restricted settings, such as wildlife reserves, zoos, and other conservation facilities. Captive breeding is meant to save species from extinction and so stabilise the population of the species that it will not disappear.[43] This technique has worked for many species for some time, with probably the oldest known success of captive mating being attributed to menageries of European and Asian rulers, an example being the Père David's deer. However, captive breeding techniques are usually difficult to implement for such highly mobile species as some migratory birds (e.g. cranes) and fishes (e.g. hilsa). Additionally, if the captive breeding population is too small, then inbreeding may occur due to a reduced gene pool and reduce resistance. "Endangered" in relation to "threatened" under the ESA In 1981, the Association of Zoos and Aquariums (AZA) created a Species Survival Plan (SSP) to help preserve specific endangered and threatened species through captive breeding. With over 450 SSP Plans, some endangered species are covered by the AZA with plans to cover population management goals and recommendations for breeding for a diverse and healthy population, created by Taxon Advisory Groups. These programs are commonly created as "last resort effort. SSP Programs regularly participate in species recovery, veterinary care for wildlife disease outbreaks, and some other wildlife conservation efforts. The AZA's Species Survival Plan also has been used to reintroduce critically endangered species back into the wild. For example, Black rhinos and Amur leopards are endangered animals that have been bred in captivity and released back into the wild. The AZA's program has helped to increase the numbers of many endangered species, such as giant pandas, and has helped to stabilize the populations of the southern black rhinoceros and southern white rhinoceros. Richard Ensley, a scientist officer at the IUCN, said of such programs, "Effective law enforcement has become much easier now that the animals are largely privately owned... We have been able to bring local communities into conservation programs. There are increasingly strong economic incentives attached to looking after rhinos rather than simply poaching; from Eco-Tourism or selling them on for a profit. So many owners are keeping them secure. The private sector has been key to helping our work." [45] Conservation experts view the effect of China's turtle farming on the wild turtle populations of China and South-Eastern Asia—many of which are endangered—as "poorly understood".[46] Although they commend the gradual replacement of turtles caught wild with farm-raised turtles in the marketplace—the percentage of farm-raised individuals in the "visible" trade grew from around 30% in 2000 to around 70% in 2007/[47] they worry that many wild animals are caught to provide farmers with breeding stock. The conservation expert Peter Paul van Dijk noted that turtle farmers often believe that animals caught wild are superior breeding stock. Turtle farmers may, therefore, seek and catch the last remaining wild specimens of some endangered turtle species.[47] In 2015, researchers in Australia managed to coax southern bluefin tuna to breed in landlocked tanks, raising the possibility that fish farming may be able to save the species from overfishing.[48] Hawaiian Monk Seal Rehabilitation: The Hawaiian monk seal is one of the most endangered seal species in the world. Conservation efforts have focused on rescuing stranded seals, providing medical care, and releasing them back into the wild. By 1993 due to pesticide use and habitat destruction, the Bald Eagle population had a remarkable recovery. By 2020, the number of nesting pairs had surged to 71,400. Thanks to habitat protection, legal protection, and DDT ban efforts, leading to the bald eagle being removed from the list of threatened and endangered species.[50][51] The Gray Wolf Rebound: Starting in 1995 and 1996, 31 gray wolves from western Canada were relocated to Yellowstone, where they were temporarily kept in acclimation pens before being released into the wild. This careful reintroduction aided to restore a key predator to the ecosystem, which had profound effects on the park's wildlife dynamics. After being nearly eradicated in the lower 48 states by the early 20th century, reintroduction and protective measures have allowed their populations to rebound significantly. By 2017, gray wolves were delisted in Montana, Idaho, and Wyoming, indicating a recovery to a point where they were no longer considered endangered in these areas.[52][53] Recovery of the Channel Island Fox: Beginning in 1999, the Channel Islands National Park launched an ambitious recovery program for the island fox, incorporating several key strategies: captive breeding and reintroduction, removal of predatory golden eagles, re-establishment of bald eagles, and eradication of non-native ungulates. The U.S. Department of the Interior officially recognized the recovery as the fastest for any Endangered Species Act-listed mammal in the U.S., announcing the delisting of three island fox subspecies in 2016. This recovery, from near extinction in the late 1990s to robust populations by the mid-2010s, underscores the power of partnership-driven conservation.[54][55] Though endangered, it still has a very large population. The Florida Manatee: Despite being classified as endangered, manatees in the United States have a relatively large and growing population. Conservation efforts focus on protecting their habitats, particularly seagrass beds, and ensuring safe passage through shipping lanes. The Loggerhead Sea Turtle: Nesting on beaches like Juvet Beach in Hawaii, loggerhead sea turtles face threats from coastal development and poaching. Conservation efforts include nest guarding, beach closures during nesting season, and public education campaigns. The Russian Federation Terrestrial Book of the

