

Indicator theme (old)	D Biodiversity
Component (FDES)	1: Environmental Conditions and Quality
Sub-component (FDES)	1.2: Land Cover, Ecosystems and Biodiversity
Indicator topic (FDES)	1.2.2: Ecosystems and biodiversity

Indicator D-4.2 Share of species threatened (mammals, birds, fishes, reptiles, amphibians, invertebrates, vascular plants, mosses, lichens, fungi,

ID and name in indicator guidelines D4 Threatened and protected species

First publication 10/6/2021 Latest update 10/6/2021

Indicator definition The indicator shows the percentage of nationally threatened species (i. e. those assessed as either vulnerable, endangered or critically endangered according to the IUCN Red List assessment criteria, in national assessments), including mammals, birds, fishes, reptiles, amphibians, invertebrates, vascular plants, mosses, lichens, fungi and algae.
This indicator requires a disaggregation by taxonomic groups of species. Priority should be given to vertebrates and vascular plants.
Member States are encouraged to assess the status of their biodiversity, using the appropriate IUCN Red List guidance.

Unit of measure %

Coverage mammals, birds, fishes, reptiles, amphibians, invertebrates, vascular plants, mosses, lichens, fungi

Spatial aggregation National territory

Reference period End of each calendar year or nearest date within that calendar year

Update frequency Annual

Purpose The indicator provides a measure of the state of biodiversity in terms of the number of nationally threatened species, also providing information on the effectiveness of national efforts to improve conservation status of species on their territory.

Policy context Ecosystems and biodiversity have strong intrinsic values, provide multiple ecosystem services to human societies, and thereby support sustainable development and human wellbeing on Earth. They enable nature-based solutions to a wide range of challenges to Society. The proportion of threatened species within the overall species complement of a country is an important measure of the status of biodiversity.
The indicator is relevant to SDG target 15.5 ("Take urgent and significant action to reduce the degradation of natural habitats, halt the loss of biodiversity and, by 2020, protect and prevent the extinction of threatened species"), as well as SDG target 15.9 ("By 2020, integrate ecosystem and biodiversity values into national and local planning, development processes, poverty reduction strategies and accounts").

Link with SDG indicators

SDG indicators	Comments
14.4.1 Proportion of fish stocks within biologically sustainable levels	a relatively loose relationship
15.5.1 Red List Index	

Policy references

Title and weblink	Comments
United Nations Convention on Biological Diversity (CBD) https://www.cbd.int/	
United Nations Convention on Biological Biodiversity: First Draft of the Post-2020 Global Biodiversity Framework https://www.cbd.int/doc/c/914a/eca3/24ad42235033f031badf61b1/wg2020-03-03-en.pdf	

<p>Communication from the Commission to the European Parliament, the Council, the European Economic and Social Committee and the Committee of the Regions.</p> <p>EU Biodiversity Strategy for 2030. Bringing nature back into our lives.</p> <p>https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1590574123338&uri=CELEX:52020DC0380</p>
<p>Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora</p> <p>http://ec.europa.eu/environment/nature/legislation/habitatsdirective/index_en.htm</p>
<p>Recommendation No. 16 (1989) of the standing committee on areas of special conservation interest of the Convention on the Conservation of European Wildlife and Natural Habitats (Bern Convention)</p> <p>https://search.coe.int/bern-convention/Pages/result_details.aspx?ObjectId=0900001680746c25</p>

Methodology for indicator calculation	<p>Percentage of species threatened = Number of species threatened / total number of species x 100%.</p> <p>Broken down separately for each taxonomic group as listed under “coverage” above. Priority should be given to vertebrates and vascular plants.</p>
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Methodology references

Title of the reference document	Link
Guidelines for Using the IUCN Red List Categories and Criteria, Version 14	https://www.iucnredlist.org/resources/redlistguidelines
Guidelines for Application of IUCN Red List Criteria at Regional and National Levels, Version 4	https://portals.iucn.org/library/sites/library/files/documents/RL-2012-002.pdf

Data and statistics needed to compile the indicator

ID	Data item	FDES topic
234	Number of threatened species of mammals	1.2.2: Ecosystems and biodiversity
235	Number of threatened species of birds	1.2.2: Ecosystems and biodiversity
236	Number of threatened species of fish	1.2.2: Ecosystems and biodiversity
237	Number of threatened species of reptiles	1.2.2: Ecosystems and biodiversity
238	Number of threatened species of amphibians	1.2.2: Ecosystems and biodiversity
239	Number of threatened species of invertebrates	1.2.2: Ecosystems and biodiversity
240	Number of threatened species of vascular plants	1.2.2: Ecosystems and biodiversity
241	Number of threatened species of mosses	1.2.2: Ecosystems and biodiversity
242	Number of threatened species of lichens	1.2.2: Ecosystems and biodiversity
243	Number of threatened species of fungi	1.2.2: Ecosystems and biodiversity
244	Overall number of species of mammals documented in country	1.2.2: Ecosystems and biodiversity
245	Overall number of species of birds documented in country	1.2.2: Ecosystems and biodiversity
246	Overall number of species of fish documented in country	1.2.2: Ecosystems and biodiversity
247	Overall number of species of reptiles documented in country	1.2.2: Ecosystems and biodiversity
248	Overall number of species of amphibians documented in country	1.2.2: Ecosystems and biodiversity
249	Overall number of species of invertebrates documented in country	1.2.2: Ecosystems and biodiversity

Indicator

D-4.2 Share of species threatened (mammals, birds, fishes, reptiles, amphibians, invertebrates, vascular plants, mosses, lichens, fungi,

250	Overall number of species of vascular plants documented in country	1.2.2: Ecosystems and biodiversity
251	Overall number of species of mosses documented in country	1.2.2: Ecosystems and biodiversity
252	Overall number of species of lichens documented in country	1.2.2: Ecosystems and biodiversity
253	Overall number of species of fungi documented in country	1.2.2: Ecosystems and biodiversity
258	Number of threatened species of algae	1.2.2: Ecosystems and biodiversity
259	Overall number of species of algae documented in country	1.2.2: Ecosystems and biodiversity

Comments