

## SDG Goal 15

## Life on land

### SDG Target 15.2

By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and reforestation globally

### SDG Indicator 15.2.1

Progress towards sustainable forest management

### Time series

Above-ground biomass stock in forest

## 1. General information on the time series

- Date of national metadata: 15 December 2021
- National data: <http://sdg-indicators.de/15-2-1/>
- Definition: The time series measures the carbon balance for the forest ecosystem above ground.
- Disaggregation: type of biomass

## 2. Comparability with the global metadata

- Date of global metadata: March 2022
- Global metadata: <https://unstats.un.org/sdgs/metadata/files/Metadata-15-02-01.pdf>
- The time series is partly compliant with the global metadata. It measures the total biomass stock in forest instead of the above-ground biomass stock in forest.

## 3. Data description

- Data on carbon balance for the forest ecosystem is part of the annual publication of the environmental economic accounting in Germany. Data is calculated by Thünen Institute on behalf of the Federal Statistical Office.  
The data collection was methodologically updated in 2014. Therefore, data before and after this year cannot be compared.

## 4. Access to data source

- Economic Accounts for Forestry (only available in German): “Waldgesamtrechnung”:  
<https://www.destatis.de/DE/Themen/Gesellschaft-Umwelt/Umwelt/UGR/landwirtschaft-wald/Publikationen/Downloads/waldgesamtrechnung-tabellenband-pdf-5852102.html>

## 5. Metadata on source data

- Not available.

## 6. Timeliness and frequency

- Timeliness: t + 20 months
- Frequency: Annual

## 7. Calculation method

- Unit of measurement: Million tonnes
- Calculation:

**Carbon balance** = *Standing timber [Mn t] + Other woody biomass [Mn t] + Other biomass in forests [Mn t]*

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### **Time series**

**Forest area located within protected areas**

### **1. General information on the time series**

- Date of national metadata: 15 February 2023
- National data: <http://sdg-indicators.de/15-2-1/>
- Definition: The time series measures the proportion of forest area within protected area.
- Disaggregation: Not available.

### **2. Comparability with the global metadata**

- Date of global metadata: March 2022
- Global metadata: <https://unstats.un.org/sdgs/metadata/files/Metadata-15-02-01.pdf>
- The time series is compliant with the global metadata.

### **3. Data description**

- Since the timestamp 2015, the data is based on a special evaluation. For the calculation of the forest area located within protected areas, all protected areas except for nature parks and UNESCO-MAB Biosphere reserves are considered as well as forest areas. Data on protected areas was downloaded from the Protected Planet webpage. Data on forest areas come from the ecosystem extent accounts.

### **4. Access to data source**

- Data on protected areas:  
<https://www.protectedplanet.net/country/DEU>
- Forest area:  
<https://www.destatis.de/EN/Themes/Society-Environment/Environment/Environmental-Economic-Accounting/ecosystem-account/Tables/overview-divisions.html>

### **5. Metadata on source data**

- Not available.

### **6. Timeliness and frequency**

- Timeliness: Not available.
- Frequency: Every 3 years

## 7. Calculation method

- Unit of measurement: Percentage
- Calculation:

$$\text{Forest area located within protected areas} = \frac{\text{Protected forest area [ha]}}{\text{Total forest area [ha]}} \cdot 100 [\%]$$

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### Time series

Forest area net change rate

## 1. General information on the time series

- Date of national metadata: 2 November 2021
- National data: <http://sdg-indicators.de/15-2-1/>
- Definition: The time series measures the change rate of forest area between the years.
- Disaggregation: Not available.

## 2. Comparability with the global metadata

- Date of global metadata: March 2022
- Global metadata: <https://unstats.un.org/sdgs/metadata/files/Metadata-15-02-01.pdf>
- The time series is compliant with the global metadata. The change in forest area loss rate is based on a comparison of the current forest area net change rate with the baseline forest area net change rate for the period 2010-2015.

## 3. Data description

- The data on forest area and land area is taken from the statistical areal survey of the Federal Statistical Office.  
The data is collected by the statistical areal survey by type of actual use in the public land survey registers of the Länder. Until 2015 the catalogue was based on the nomenclature of the automated real estate books (ALB). Since 2016 the ALKIS type of use catalogue is applied, due to a methodological change. Data is now obtained by evaluation according to the ALKIS (Official Land Registry Information System) usage catalogue.

## 4. Access to data source

- Soil area (actual use): types of use – GENESIS online 33111-0001:  
<https://www-genesis.destatis.de/genesis//online?operation=table&code=33111-0001&bypass=true&language=en>
- Soil area (actual use): reference date (until 2015-12-31), types of use – GENESIS online 33111-0003:  
<https://www-genesis.destatis.de/genesis//online?operation=table&code=33111-0003&bypass=true&language=en>

## 5. Metadata on source data

- Quality Report - Area survey by Type of Actual Use (only available in German):  
<https://www.destatis.de/DE/Methoden/Qualitaet/Qualitaetsberichte/Land-Forstwirtschaft-Fischerei/flaechenerhebung.pdf>

## 6. Timeliness and frequency

- Timeliness: t + 11 months
- Frequency: Annual

## 7. Calculation method

- Unit of measurement: Percentage
- Calculation:

$$\text{Forest area net change rate} = \frac{\text{Forest area}_t[\text{ha}] - \text{Forest area}_{t-1}[\text{ha}]}{\text{Forest area}_{t-1}[\text{ha}]} \cdot 100 [\%]$$

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### Time series

Forest area under an independently verified forest management certification scheme

## 1. General information on the time series

- Date of national metadata: 2 November 2021
- National data: <http://sdg-indicators.de/15-2-1/>
- Definition: The time series measures the proportion of forest area under the Programme for the Endorsement of Forest Certification Schemes (PEFC).
- Disaggregation: Not available.

## 2. Comparability with the global metadata

- Date of global metadata: March 2022
- Global metadata: <https://unstats.un.org/sdgs/metadata/files/Metadata-15-02-01.pdf>
- The time series is compliant with the global metadata.

## 3. Data description

- The data on proportion of forest area under the Programme for the Endorsement of Forest Certification Schemes (PEFC) is calculated by the German Environment Agency (UBA) on the basis of data from Federal Agency for Nature Conservation (BfN), Programme for the Endorsement of Forest Certification Schemes (PEFC) and National Forest Inventory.

## 4. Access to data source

- Sustainable Forestry:  
<https://www.umweltbundesamt.de/en/data/environmental-indicators/indicator-sustainable-forestry>

## 5. Metadata on source data

- Sustainable Forestry:  
<https://www.umweltbundesamt.de/en/indicator-sustainable-forestry>

## 6. Timeliness and frequency

- Timeliness: t + 3.5 months
- Frequency: Annual

## 7. Calculation method

- Unit of measurement: Percentage
- Calculation:

**Not applicable.**