

SDG Goal 2 Zero hunger

SDG Target 2.4 By 2030, ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality

SDG Indicator 2.4.1 Proportion of agricultural area under productive and sustainable agriculture

Time series Data from the Federal Statistical Office

1. General information on the time series

- Date of national metadata: 7 June 2023
- National data: <http://sdg-indicators.de/2-4-1/>
- Definition: The time series measures the share of total utilised agricultural land in Germany that is cultivated by organically managed farms subject to the inspection system prescribed by the EU legislation on organic farming (Regulation (EC) No. 834/2007) and the implementing rules. It includes land that has been fully converted to organic management as well as areas still undergoing conversion.
- Disaggregation: länder

2. Comparability with the global metadata

- Date of global metadata: May 2023
- Global metadata: <https://unstats.un.org/sdgs/metadata/files/Metadata-02-04-01.pdf>
- The time series is not compliant with the global metadata, but provides additional information.

3. Data description

- The data is derived from the agricultural structure survey conducted by the Federal Statistical Office. The Federal Statistical Office uses various surveys to determine the amount of organically farmed land. The reference value for the proportional computation is the amount of agricultural land determined annually as part of the main survey of land use. The agricultural land includes all areas and sub-areas used for agricultural or horticultural purposes. Building and farmyard areas of agricultural businesses are therefore not included in the reference value.

4. Access to data source

- Agricultural holdings, utilised agricultural area – GENESIS online 41271-0001:
<https://www-genesis.destatis.de/genesis//online?operation=table&code=41271-0001&bypass=true&language=en>
- Agricultural holdings with organic farming, area, organic area – GENESIS online 41141-0007:
<https://www-genesis.destatis.de/genesis//online?operation=table&code=41141-0007&bypass=true&language=en>
- Area under organic farming – Eurostat table [sdg_02_40]:
https://ec.europa.eu/eurostat/databrowser/view/sdg_02_40/default/table?lang=en

5. Metadata on source data

- Quality report – Land use survey (only available in German):
<https://www.destatis.de/DE/Methoden/Qualitaet/Qualitaetsberichte/Land-Forstwirtschaft-Fischerei/bodennutzung.pdf?>
- Quality Report – Census of Agriculture 2020 (only available in German):
<https://www.destatis.de/DE/Methoden/Qualitaet/Qualitaetsberichte/Land-Forstwirtschaft-Fischerei/landwirtschaftszaehlung.pdf>

6. Timeliness and frequency

- Timeliness: t + 15 months
- Frequency: Annual

7. Calculation method

- Unit of measurement: Percentage
- Calculation:

$$\text{Organically farmed agricultural land} = \frac{\text{Farming area under ecological management [ha]}}{\text{Total agriculture area [ha]}} \cdot 100[\%]$$

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SDG Target 2.4	By 2030, ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality
SDG Indicator 2.4.1	Proportion of agricultural area under productive and sustainable agriculture
Time series	Data from the Federal Ministry of Food and Agriculture

1. General information on the time series

- Date of national metadata: 7 June 2023
- National data: <http://sdg-indicators.de/2-4-1/>
- Definition: The time series measures details of the amount of organically farmed land reported annually by the organic regulatory authorities at the Länder.
The reporting date is 31 December of each year. All reports for a current year are accumulated no later than this reporting date. For a variety of reasons, including the fact that land without a cut-off threshold is referred to all land with a cut-off threshold, the data from the BMEL contains slightly higher values.
- Disaggregation: Not available.

2. Comparability with the global metadata

- Date of global metadata: May 2023
- Global metadata: <https://unstats.un.org/sdgs/metadata/files/Metadata-02-04-01.pdf>
- The time series is not compliant with the global metadata, but provides additional information.

3. Data description

- The data is derived from the structural data on organic farming conducted by the Federal Ministry of Food and Agriculture (BMEL). The reporting date is 31 December of each year. All reports for a current year are accumulated no later than this reporting date. For a variety of reasons, including the fact that land without a cut-off threshold is referred to all land with a cut-off threshold, the data from the BMEL contains slightly higher values.
The Federal Statistical Office uses various surveys to determine the amount of organically farmed land. The reference value used in the denominator for the proportional computation is the amount of agricultural land determined annually as part of the main survey of land use. The agricultural land includes all areas and sub-areas used for agricultural or horticultural purposes. Building and farmyard areas of agricultural businesses are therefore not included in the reference value.

4. Access to data source

- Organic farming in Germany (only available in German):
<https://www.bmel.de/DE/themen/landwirtschaft/oekologischer-landbau/oekologischer-landbau-deutschland.html>

5. Metadata on source data

- Not available.

6. Timeliness and frequency

- Timeliness: Not available.
- Frequency: Annual

7. Calculation method

- Unit of measurement: Percentage
- Calculation:

$$\text{Organically farmed agricultural land} = \frac{\text{Farming area under ecological management [ha]}}{\text{Total agriculture area [ha]}} \cdot 100 [\%]$$