

SDG Goal 11

Sustainable cities and communities

SDG Target 11.6

By 2030, reduce the adverse per capita environmental impact of cities, including by paying special attention to air quality and municipal and other waste management

SDG Indicator 11.6.2

Annual mean levels of fine particulate matter (e.g. PM_{2.5} and PM₁₀) in cities (population weighted)

Time series

Population weighted annual mean levels of fine particulate matter

1. General information on the time series

- Date of national metadata: 19 September 2022
- National data: <http://sdg-indicators.de/11-6-2/>
- Definition: The time series shows the average PM_{2.5} and PM₁₀ concentration per year in Germany, weighted by population.
- Disaggregation: fine particulate matter

2. Comparability with the global metadata

- Date of global metadata: July 2022
- Global metadata: <https://unstats.un.org/sdgs/metadata/files/Metadata-11-06-02.pdf>
- The time series is not compliant with the global metadata, but provides additional information. It covers both PM_{2.5} and PM₁₀, but the time series is population weighted across urban and rural areas in Germany not only across urban areas.

3. Data description

- The data is derived from the German Environment Agency (UBA). The time series is calculated by combining modelled data from the REM-CALGRID chemical transport model, PM_{2.5} and PM₁₀ measurement data provided by the Federal States of Germany and the UBA and additional interpolation procedures. In addition, the data is combined with the distribution of population density in Germany.

4. Access to data source

- Population-weighted particulate matter exposure:
<https://www.umweltbundesamt.de/en/indicator-population-weighted-particulate-matter>

5. Metadata on source data

- Population-weighted particulate matter exposure:
<https://www.umweltbundesamt.de/en/indicator-population-weighted-particulate-matter#assessing-the-development>

6. Timeliness and frequency

- Timeliness: Not available.
- Frequency: Annual

7. Calculation method

- Unit of measurement: Micrograms per m³
- Calculation:

Complex calculation method.

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Annual mean levels of fine particulate matter (e.g. PM_{2.5} and PM₁₀) in cities (population weighted)

Time series

Population with excessive exposure to fine particulate matter

1. General information on the time series

- Date of national metadata: 19 September 2022
- National data: <http://sdg-indicators.de/11-6-2/>
- Definition: The time series shows the population exposed to a concentration of fine particulate matter higher than the 2005 guideline values defined by WHO.
- Disaggregation: fine particulate matter

2. Comparability with the global metadata

- Date of global metadata: July 2022
- Global metadata: <https://unstats.un.org/sdgs/metadata/files/Metadata-11-06-02.pdf>
- The time series is not compliant with the global metadata, but provides additional information. It covers both PM_{2.5} and PM₁₀, but the time series represents data across urban and rural areas in Germany, i.e. not only across urban areas. Instead of the mean levels of fine particulate matter, it shows the population number exposed to fine particulate matter higher than a certain level.

3. Data description

- The data is provided by the German Environment Agency (UBA). The time series is calculated by combining modelled data from the REM-CALGRID chemical transport model, PM₁₀ measurement data provided by the Federal States of Germany and the UBA, a conversion to PM_{2.5} and additional interpolation procedures.

4. Access to data source

- Population exposed to PM_{2.5} -concentrations exceeding the WHO 2005 annual mean guideline value: <https://www.umweltbundesamt.de/en/data/environmental-indicators/indicator-population-exposure-to-particulate-matter>

5. Metadata on source data

- Population exposed to PM_{2.5} -concentrations exceeding the WHO 2005 annual mean guideline value: <https://www.umweltbundesamt.de/en/data/environmental-indicators/indicator-population-exposure-to-particulate-matter>

6. Timeliness and frequency

- Timeliness: Not available.
- Frequency: Annual

7. Calculation method

- Unit of measurement: Million inhabitants
- Calculation:

Complex calculation method.