



## PM2.5, European air quality data for 2023, (interpolated data), June 2025

The data set provides values for the human health related indicator of PM2.5 (annual average concentration) at 1 km<sup>2</sup> grid combining monitoring air quality data, chemical transport model results and other supplementary data in a 'regression-interpolation-merging mapping' methodology. It covers Europe for the year 2023.

This data set is used to estimate population exposure to air pollution and for the health impact assessments published by the EEA (see, for example, Harm to human health from air pollution in Europe: burden of disease 2024 at <https://www.eea.europa.eu/en/analysis/publications/harm-to-human-health-from-air-pollution-2024>). The methodology can be found in the 2024 ETC HE report 2024/4 "Air quality maps of EEA member and cooperating countries for 2022. PM10, PM2.5, O<sub>3</sub>, NO<sub>2</sub>, NOx and BaP spatial estimates and their uncertainties", available at <https://www.eionet.europa.eu/etc/etc-he/products/etc-he-products/etc-he-reports/etc-he-report-2024-4-air-quality-maps-of-eea-member-and-cooperating-countries-for-2022-pm10-pm2-5-o3-no2-nox-and-bap-spatial-estimates-and-their-uncertainties> (the corresponding 2025 report with the 2023 maps will be published at the end of 2025).

### Simple

Date (Creation)	2025-05-01		
Date (Publication)	2025-05-28		
Edition	01.00		
Citation identifier	eea_r_3035_1_km_aq-interpolated-pm25_p_2023_v01_r00		
Point of contact	<b>Organisation name</b>  European Environment Agency  European Environment Agency	<b>Individual name</b>  European Environment Agency	<b>Electronic mail</b> sdi@eea.europa.eu <b>Website</b> <a href="http://www.eea.europa.eu">http://www.eea.europa.eu</a> <b>Role</b> Point of contact  <b>Electronic mail</b> sdi@eea.europa.eu <b>Website</b> <a href="http://www.eea.europa.eu">http://www.eea.europa.eu</a> <b>Role</b> Custodian

### Point of contact

No information provided.

Maintenance and update frequency	Annually
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"><li>• <a href="#">Atmospheric conditions</a></li><li>• <a href="#">Environmental monitoring facilities</a></li><li>• <a href="#">Human health and safety</a></li></ul>
Keywords	
Keywords	
GEMET	<ul style="list-style-type: none"><li>• <a href="#">traffic</a></li><li>• <a href="#">troposphere</a></li><li>• <a href="#">atmospheric composition</a></li><li>• <a href="#">air quality monitoring</a></li><li>• <a href="#">atmospheric particulate</a></li><li>• <a href="#">air quality</a></li><li>• <a href="#">transboundary pollution</a></li><li>• <a href="#">atmospheric pollution</a></li></ul>
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"><li>• San Marino</li><li>• Andorra</li><li>• EEA38 (from 2020)</li><li>• Monaco</li></ul>
Spatial scope	<ul style="list-style-type: none"><li>• European</li></ul>

<b>INSPIRE priority data set</b>	<ul style="list-style-type: none"> <li>• Measurement and modelling data (Air Quality Directive)</li> <li>• Monitoring stations (Air Quality Directive)</li> <li>• Directive 2008/50/EC</li> </ul>
<b>EEA topics</b>	• <a href="#">Air pollution</a>
<b>Temporal resolution</b>	• Annually
<b>Access constraints</b>	Other restrictions
<b>Other constraints</b>	<a href="#">no limitations to public access</a>
<b>Use constraints</b>	Other restrictions
<b>Other constraints</b>	EEA standard re-use policy: unless otherwise indicated, re-use of content on the EEA website for commercial or non-commercial purposes is permitted free of charge, provided that the source is acknowledged ( <a href="http://www.eea.europa.eu/legal/copyright">http://www.eea.europa.eu/legal/copyright</a> ). Copyright holder: European Environment Agency (EEA).
<b>Aggregate Dataset identifier</b>	282ed4e9-d58a-44ae-8c48-e688bdfed281
<b>Association Type</b>	Cross reference
<b>Spatial representation type</b>	Grid

## Spatial resolution

No information provided.

<b>Distance</b>	1 km
<b>Language of dataset</b>	English
<b>Topic category</b>	<ul style="list-style-type: none"> <li>• Environment</li> </ul>

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Begin date	2023-01-01		
End date	2023-12-31		
Coordinate reference system identifier	<a href="#">EPSG:3035</a>		
Distribution format	<ul style="list-style-type: none"> <li>• GeoTIFF ( )</li> </ul>		
OnLine resource	<b>Protocol</b> EEA: FOLDERPATH  <b>WWW:URL</b>	<b>Linkage</b> <a href="https://sd.eea.europa.eu/webdav/datastore/public/eea_r_3035_1_km_aq-interpolated-pm25_p_2023_v01_r00">https://sd.eea.europa.eu/webdav/datastore/public/eea_r_3035_1_km_aq-interpolated-pm25_p_2023_v01_r00</a> <a href="https://sd.eea.europa.eu/data/57807f24-25dc-4df3-9468-dcff8cee5468">https://sd.eea.europa.eu/data/57807f24-25dc-4df3-9468-dcff8cee5468</a>	<b>Name</b> Direct download

## OnLine resource

No information provided.

Hierarchy level	Dataset
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## Conformance result

Title	Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services
Date (Publication)	2010-12-08
Explanation	See the referenced specification

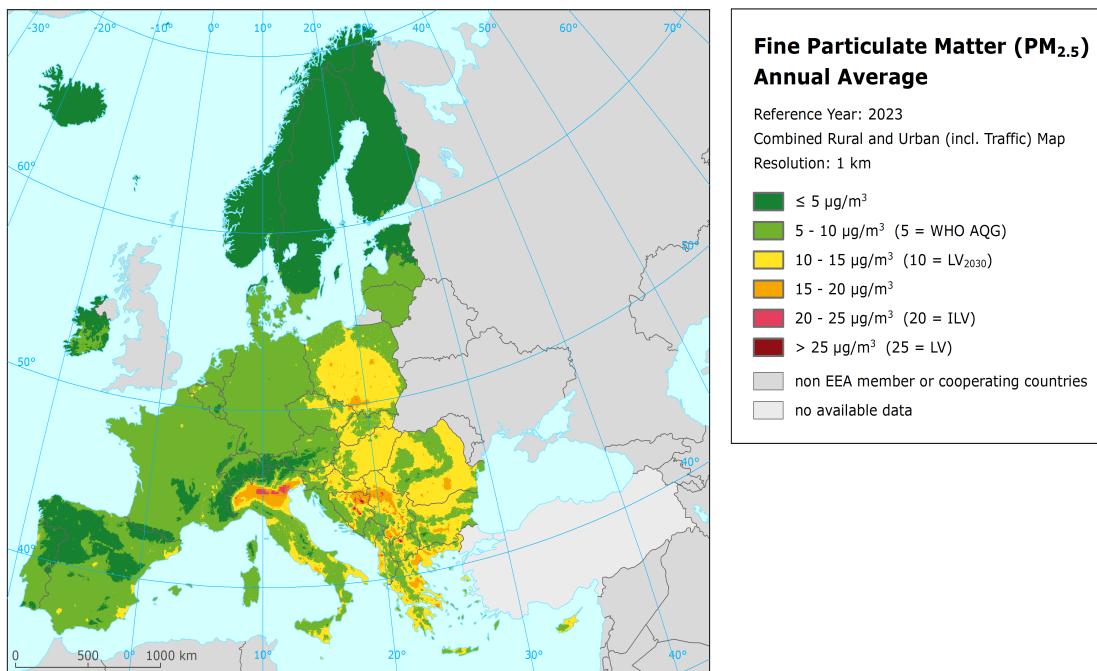
Statement	<p>The data set and corresponding maps are derived primarily from the e-reporting Air Quality database, consisting of monitoring stations data reported to EEA, and some additional EMEP (European Monitoring and Evaluation Programme) station monitoring data, supplemented with, among others, altitude, meteorological ECMWF data, EMEP concentration modelling data and satellite data. These data sets and the corresponding maps are assessment tools for use at the European scale. They may show results which differ from assessments made at national scale and should not be used to check formal compliance with regulated standards.</p> <p>The methodology and the corresponding maps can be found in the 2021 Eionet report "European air quality maps for 2019. PM10, PM2.5, Ozone, NO2 and NOx Spatial estimates and their uncertainties" (ETC/ATNI Report 1/2021) available at <a href="https://www.eionet.europa.eu/etc/etc-atni/products/etc-atni-reports/etc-atni-report-1-2021-european-air-quality-maps-for-2019-pm10-pm2-5-ozone-no2-and-nox-spatial-estimates-and-their-uncertainties;_the-references-therein;_and-the-successive-Eionet-reports-for-the-following-years-available-at-https://www.eionet.europa.eu/etc/all/etc-reports">https://www.eionet.europa.eu/etc/etc-atni/products/etc-atni-reports/etc-atni-report-1-2021-european-air-quality-maps-for-2019-pm10-pm2-5-ozone-no2-and-nox-spatial-estimates-and-their-uncertainties;_the-references-therein;_and-the-successive-Eionet-reports-for-the-following-years-available-at-https://www.eionet.europa.eu/etc/all/etc-reports</a>.</p>
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## Metadata

File identifier	57807f24-25dc-4df3-9468-dcff8cee5468 <a href="#">XML</a>
Metadata language	English

Character set	UTF8		
Hierarchy level	Dataset		
Date stamp	2025-05-28T14:15:52.354099Z		
Metadata standard name	ISO 19115/19139		
Metadata standard version	1.0		
Metadata author	<p>Organisation name European Environment Agency</p>	<p>Individual name</p>	<p>Electronic mail address sdi@eea.europa.eu</p> <p>Website Role Point of contact</p>

## Overviews



## Provided by

