

## JRC Dataset

### UDP - PM10 concentration, 2010 - 2050 (JRC LUISA Reference Scenario 2016)

#### Description:

This indicator measures the annual mean concentrations of PM10 ( $\mu\text{g} / \text{m}^3$ ). PM10 is one of the main pollutants emitted by household and (to a lower extent) commercial and institutional fuel combustion, followed by industrial activities and transport. Because of its high impact on human health, the EU Air Quality Directive (2008/50/EC) has set forth legally binding limit values for ground-level concentrations of PM10: the daily limit value is set to  $50\mu\text{g}/\text{m}^3$ . Annual mean concentrations PM10 were calculated using Land Use Regression (LUR) Models. The LUR model was built using annual mean PM10 concentration for 2010 from the monitoring sites included in the AirBase database (dependent variable) and several parameters (independent variables) defined within a Geographic Information System (GIS).

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#### How to cite:

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#### Keywords:

Degurb, EU Reference Scenario 2016, FUA, LUISA, LUR models, Metro, NUTS, Non-metro, PM10, Urban indicator, air quality, particulate matter, pollution,  $\mu\text{g} / \text{m}^3$

#### Related resources:

##### Data access

###### UDP - Concentration of PM10 (Europe)

The download link contains the information at city, FUA, metro and non-metro region, degree of urbanisation and country levels from 01-01-2010 to 01-01-2050 in European Union. The data is stored in text/csv format.

[https://cidportal.jrc.ec.europa.eu/ftp/jrc-opendata/LUISA/SecondaryOutput\\_Indicators/Europe/REF-2016/UDP/PM10CONCENTRATION/](https://cidportal.jrc.ec.europa.eu/ftp/jrc-opendata/LUISA/SecondaryOutput_Indicators/Europe/REF-2016/UDP/PM10CONCENTRATION/)

###### UDP - Concentration of PM10 (Danube)

The download link contains the information at city, FUA, metro and non-metro region, degree of urbanisation and country levels from 01-01-2010 to 01-01-2050 in European Union. The data is stored in text/csv format.

[https://cidportal.jrc.ec.europa.eu/ftp/jrc-opendata/LUISA/SecondaryOutput\\_Indicators/Danube/REF-2016/UDP/PM10CONCENTRATION/](https://cidportal.jrc.ec.europa.eu/ftp/jrc-opendata/LUISA/SecondaryOutput_Indicators/Danube/REF-2016/UDP/PM10CONCENTRATION/)

##### Publications

###### European cities: territorial analysis of characteristics and trends - An application of the LUISA Modelling Platform (EU Reference Scenario 2013 - Updated Configuration 2014)

Kompil M, Aurambout J, Ribeiro Barranco R, Barbosa A, Jacobs C, Pisoni E, Zulian G, Vandecasteele I, Trombetti M, Vizcaino M, Vallecillo Rodriguez S, Batista E Silva F, Baranzelli C, Mari Rivero I, Perpiña Castillo C, Polce C, Maes J, Lavalle C.

European cities: territorial analysis of characteristics and trends - An application of the LUISA Modelling Platform (EU Reference Scenario 2013 - Updated Configuration 2014). EUR 27709. Luxembourg (Luxembourg): Publications Office of the European Union; 2015. JRC100001

DOI:[10.2788/737963](https://doi.org/10.2788/737963)

###### The State of European cities 2016. Cities leading the way to a better future

European Commission, Directorate-General for Regional and Urban Policy; United Nations, Human Settlements Programme (2016): The State of European cities 2016. Cities leading the way to a better future. Publications Office of the European Union.

DOI:[10.2776/770065](https://doi.org/10.2776/770065)

## Other resources

### Urban Data Platform

The Urban Data Platform is a joint initiative of the Directorate General Joint Research Centre (DG JRC) and the Directorate General for Regional and Urban Policy (DG REGIO) of the European Commission. It provides an access point to exchange information on the status and trends of European cities and regions. It visualizes data via maps at three different geographical units including EU-wide Cities/Greater Cities, Functional Urban Areas and Metropolitan Regions. It also includes time series graphs for selected cities, for Metropolitan Regions, and by degree of urbanisation.

<http://urban.jrc.ec.europa.eu>

### LUISA Territorial Modelling Platform

The LUISA Territorial Modelling Platform is primarily used for the ex-ante evaluation of EC policies that have a direct or indirect territorial impact

<https://ec.europa.eu/jrc/en/luisa>

## Additional information:

Last Modified: 2015-12-20

Issue date: 2015-11-18

Landing page: <https://ec.europa.eu/jrc/en/territorial-policies>

Geographic area: European Union

Temporal coverage: From: 2010-01-01 – To: 2050-01-01

Update frequency: None

Language: English

Data theme(s): Environment; Science and technology

EuroVoc domain(s): 36 SCIENCE; 52 ENVIRONMENT

Identifier: <http://data.europa.eu/89h/jrc-luisa-udp-pm10concentration-reference-2016>