

Traffic Related Air Pollution

Index of the Air Pollution for PM10 and NO2

Index Value	Description
< 1.20	lowly burdened
1.21 - 1.50	moderately burdened
1.51 - 1.80	enhanced burdened
> 1.80	very highly burdened

- The EC limit values for air quality which are adopted into german law in 2002, have to be scored within a limited period. Afterwards no exceedings are allowed. Because the sum of limit value and tolerance margin for particulate matter (PM10) and nitrogen dioxide (NO2) exceed in several cases, it was necessary to prepare a clean air plan for Berlin. The current release is valid for the years 2009-2020.
- This clean air- and action plan 2009-2020 contains an intensive both chronological and spatial inventory of the air burden situation in Berlin. Besides the traditional measurements of the immission situation in the city dispersion models for certain substances were used. For these models the knowledge of many parameters like the broadness of the streets, the roadside developments etc. were required.
- This map shows a combining evaluation for the substances PM10 (annual mean) and NO2 (annual mean) using indexes. To estimate the index the calculated concentration values for 2009 are weightened at the new EC-limit values and the quotients are added. From this it follows that an index of 1.00 is reached if both components (PM10 and NO2) reach 50% of the limit values. A special attention will be required for those sections of the road network, where an index of 1.8 is passed (more than 90% of the limit value).
- The evaluations of this map are not comparable with those of the 2008 edition since the latest indices of "Strategic Environmental Assessment" SUP were adopted.
- The presentation of the factual data offers both more information about the certain sections of the main road network (names of the streets, statistical information etc.) and advices about the trend estimations for 2015 and 2020 under status quo circumstances that means without any modifications of the traffic management measures.
- Air quality limit values for particulate matter (PM2.5, PM10) and nitrogen dioxide (NO2).

Average	Limit value	Adherence to time limit
target val. 1 year	25 µg/m³ PM2.5	since 01.01.2010
Level 1, 1 year	25 µg/m³ PM2.5	from 01.01.2015
Level 2, 1 year	20 µg/m³ PM2.5	from 01.01.2020
24 h	50 µg/m³ PM10	since 01.01.2005
1 year	35 exceedings/year 40 µg/m³ PM10	since 01.01.2005
1 h	200 µg/m³ NO2	since 01.01.2010
1 year	18 exceedings/year 40 µg/m³ NO2	since 01.01.2010

Scale: 1 : 50 000



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- III D SenGesUmw using the screening program IMMIS

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Based on the Map: Block map 1:5,000 (ISU5) of ISU (Information System Urban and Environment) of the Senate Department for Urban Development III F, from 31.12.2010

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