

**3.9.1 Mortality rate attributed to household and ambient air pollution**  
Fine particulate matter-related burden of disease

Year	Attributable deaths due to long-term exposure to fine particulate matter (PM <sub>2.5</sub> ) in the population aged 25 years and older by type of disease (upper and lower estimator)					
	Total	of which				
		Chronic obstructive pulmonary disease (COPD)	Lung cancer	Stroke	Ischemic heart diseases	Diabetes mellitus type 2
2010	14,073 - 28,060	1,735 - 3,115	3,442 - 6,153	1,809 - 3,320	6,519 - 14,483	568 - 989
2011	13,788 - 27,425	1,746 - 3,137	3,515 - 6,289	1,782 - 3,275	6,151 - 13,690	594 - 1,034
2012	11,547 - 23,593	1,474 - 2,696	2,967 - 5,385	1,479 - 2,828	5,120 - 11,769	507 - 915
2013	12,388 - 25,127	1,694 - 3,086	3,177 - 5,750	1,567 - 2,967	5,419 - 12,374	531 - 950
2014	11,395 - 23,131	1,516 - 2,767	3,055 - 5,533	1,460 - 2,779	4,885 - 11,190	479 - 862
2015	10,836 - 22,316	1,564 - 2,884	2,792 - 5,094	1,362 - 2,650	4,621 - 10,774	497 - 914
2016	10,147 - 20,950	1,432 - 2,651	2,716 - 4,966	1,320 - 2,589	4,216 - 9,886	463 - 858
2017	10,261 - 21,223	1,569 - 2,908	2,674 - 4,895	1,285 - 2,529	4,243 - 9,980	490 - 911
2018	10,390 - 21,466	1,576 - 2,919	2,699 - 4,939	1,314 - 2,582	4,285 - 10,069	516 - 957

Year	DALYs due to long-term exposure to fine particulate matter (PM <sub>2.5</sub> ) in the population aged 25 years and older by type of disease (upper and lower estimator)					
	Total	of which				
		Chronic obstructive pulmonary disease (COPD)	Lung cancer	Stroke	Ischemic heart diseases	Diabetes mellitus type 2
2010	265,001 - 511,500	36,756 - 65,990	56,368 - 100,776	37,718 - 68,680	96,501 - 210,504	37,658 - 65,549
2011	258,661 - 498,293	36,602 - 65,757	57,505 - 102,881	36,963 - 67,400	90,177 - 197,077	37,414 - 65,178
2012	215,693 - 427,840	30,184 - 55,219	48,435 - 87,913	30,201 - 57,292	74,871 - 169,617	32,002 - 57,799
2013	231,097 - 454,891	33,757 - 61,509	52,124 - 94,336	32,050 - 60,259	79,046 - 177,767	34,120 - 61,020
2014	216,255 - 426,240	31,331 - 57,178	49,792 - 90,179	30,264 - 57,184	72,130 - 162,784	32,738 - 58,915
2015	202,522 - 405,713	30,776 - 56,757	45,624 - 83,225	27,975 - 54,027	67,498 - 155,390	30,649 - 56,314
2016	191,515 - 385,072	28,941 - 53,564	43,930 - 80,322	26,934 - 52,394	62,220 - 144,149	29,490 - 54,643
2017	190,766 - 384,495	30,075 - 55,748	42,959 - 78,639	26,267 - 51,298	61,795 - 143,651	29,670 - 55,159
2018	194,265 - 391,112	30,778 - 57,018	43,380 - 79,379	26,975 - 52,590	62,713 - 145,644	30,419 - 56,481

Data sources:

Geographic coverage:

Unit of measurement:

Note:

German Environment Agency

Germany

Number, DALYs

The upper and lower estimator (confidence interval) represent the uncertainty of the calculation based on the relative risk.

Number of attributable deaths: Number of deaths that can be statistically attributed to long-term exposure to particulate matter (PM<sub>2.5</sub>).

Disability-Adjusted Life Years (DALYs): Number of healthy life years lost due to death and morbidity caused by diseases that can be statistically attributed to long-term exposure to fine particulate matter (PM<sub>2.5</sub>).

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