Road transport[1] emissions by pollutant, 1990 to 2017
UK resident basis

Pollutant	1990	1991	1992	1993	1994	1995	1996	1997	1998
Greenhouse gases	**111,384.3**	**110,629.9**	**112,136.2**	**113,409.2**	**114,116.2**	**113,104.8**	**117,327.1**	**119,203.8**	**118,742.0**
Carbon dioxide	108,825.4	108,108.7	109,604.8	110,840.3	111,493.9	110,372.0	114,790.0	116,756.9	116,415.5
Methane	1,242.2	1,224.9	1,202.4	1,132.2	1,026.6	924.9	879.3	811.7	737.8
Nitrous oxide	1,316.8	1,296.3	1,329.0	1,436.6	1,595.6	1,808.0	1,657.8	1,635.2	1,588.8
Acid rain precursors	**933.0**	**922.8**	**905.7**	**863.7**	**829.6**	**779.7**	**740.3**	**695.2**	**657.2**
Sulphur dioxide	62.5	57.4	61.4	58.5	62.8	50.7	37.4	27.5	22.6
Nitrogen Oxides as NO_2	868.8	863.6	841.4	799.3	757.1	715.7	685.8	645.9	608.3
Ammonia	1.6	1.8	2.9	6.0	9.7	13.4	17.1	21.8	26.3
PM_{10}	35.2	37.2	38.1	39.4	40.0	40.4	41.3	40.3	39.5
$PM_{2.5}$	29.8	31.8	32.7	34.0	34.5	34.8	35.6	34.4	33.5
Carbon monoxide	4,778.3	4,855.4	4,681.9	4,511.1	4,239.7	4,019.4	4,016.5	3,525.8	3,237.4
Non Methane VOC	858.1	858.3	828.5	779.9	722.0	672.3	644.7	572.3	517.4
Benzene	41.7	42.0	40.4	37.9	34.7	32.0	30.6	26.5	23.7
1,3-Butadiene	8.8	8.9	8.6	8.0	7.3	6.7	6.3	5.5	4.9
Cadmium	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Lead	2,177.2	1,948.9	1,737.7	1,534.5	1,303.6	1,074.9	918.2	808.8	602.0
Mercury	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

Notes
1. Emissions from fuel sources which are used by road vehicles across industries.

All figures are reported to 1 decimal place. Total figures are based on raw data and therefore may not sum due to rounding.

Source: Ricardo Energy and Environment, Office for National Statistics

1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
119,650.5	**118,783.5**	**118,188.9**	**120,471.5**	**120,049.2**	**120,774.5**	**121,496.6**	**121,808.9**	**123,482.7**	**119,478.6**	**115,725.3**
117,402.5	116,636.2	116,234.4	118,635.2	118,365.3	119,200.8	120,010.4	120,417.0	122,152.8	118,354.3	114,723.0
681.7	617.1	540.7	487.4	429.5	385.2	353.7	319.4	289.4	258.3	188.1
1,566.4	1,530.2	1,413.9	1,348.9	1,254.4	1,188.5	1,132.5	1,072.5	1,040.6	866.0	814.2
612.3	**570.3**	**539.3**	**508.5**	**478.5**	**455.9**	**432.5**	**415.6**	**398.2**	**370.9**	**304.3**
13.6	5.9	3.4	3.0	3.0	2.7	2.4	2.1	1.7	1.1	0.5
568.4	520.2	494.8	467.0	440.3	420.4	400.0	385.4	370.8	347.0	282.0
30.3	44.2	41.1	38.5	35.1	32.8	30.2	28.1	25.7	22.8	21.8
39.0	35.0	34.2	33.1	32.4	31.7	30.8	29.9	29.0	27.7	26.4
32.9	28.9	28.2	26.9	26.1	25.4	24.5	23.5	22.6	21.3	20.2
2,878.0	2,420.6	2,452.0	2,232.9	2,031.6	1,845.9	1,644.1	1,467.5	1,283.9	1,148.5	870.4
457.5	386.6	351.4	301.7	256.6	218.8	186.2	161.2	138.2	121.5	81.9
20.7	8.7	9.7	9.0	8.2	7.4	6.7	6.0	5.3	4.8	2.9
4.2	3.5	3.1	2.7	2.3	1.9	1.6	1.4	1.2	1.1	0.7
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
330.5	30.8	30.7	31.3	31.6	31.8	31.8	32.1	32.1	31.5	31.0
0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2

Back to contents

2010	2011	2012	2013	2014	2015	2016	2017
Mass of air emissions per annum in thousand tonnes of carbon dioxide equivalent							
114,907.3	**113,223.2**	**112,515.2**	**112,079.1**	**113,927.4**	**115,437.3**	**118,032.1**	**118,091.9**
113,912.6	112,220.5	111,494.2	111,032.8	112,837.4	114,304.6	116,851.6	116,893.2
165.3	148.6	133.5	118.5	112.0	106.5	99.6	92.3
829.5	854.1	887.6	927.9	977.9	1,026.2	1,080.9	1,106.3
Mass of air emissions per annum in thousand tonnes of sulphur dioxide equivalent							
286.1	**268.7**	**255.0**	**244.5**	**236.8**	**228.3**	**217.4**	**206.2**
0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5
266.5	251.7	240.3	231.9	225.7	218.2	207.8	197.1
19.1	16.6	14.2	12.2	10.7	9.6	9.1	8.6
Mass of air emissions per annum in thousand tonnes							
25.7	24.0	22.9	21.8	21.1	20.6	19.9	19.3
19.5	17.8	16.9	15.7	14.9	14.3	13.5	12.8
745.4	613.9	542.3	459.8	385.4	341.3	290.2	251.1
69.2	57.6	49.7	42.7	38.0	35.2	32.3	30.1
2.4	1.9	1.6	1.3	1.1	0.9	0.8	0.7
0.6	0.5	0.4	0.3	0.3	0.2	0.2	0.2
Mass of air emissions per annum in thousand tonnes							
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
30.5	30.3	30.1	30.1	30.8	31.2	31.6	31.8
0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2