

Road transport emissions in the United Kingdom, 1990 to 2019**Contents**

[Road transport emissions](#) Road transport emissions by pollutant, 1990 to 2019

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Source: *Ricardo Energy and Environment, Office for National Statistics*

Road transport¹ emissions by pollutant, 1990 to 2019

UK resident basis

Pollutant	1990	1991	1992	1993	1994
Greenhouse gases	111,382.6	110,628.1	112,134.4	113,407.3	114,114.2
Carbon dioxide	108,824.0	108,107.3	109,603.4	110,838.9	111,492.4
Methane	1,242.0	1,224.7	1,202.2	1,132.0	1,026.3
Nitrous oxide	1,316.6	1,296.2	1,328.9	1,436.5	1,595.5
Acid rain precursors	933.0	922.8	905.7	863.7	829.6
Sulphur dioxide	62.5	57.4	61.4	58.5	62.8
Nitrogen Oxides as NO ₂	868.8	863.6	841.4	799.2	757.1
Ammonia	1.6	1.8	2.9	6.0	9.7
PM ₁₀	35.2	37.2	38.1	39.4	40.0
PM _{2.5}	29.8	31.8	32.7	33.9	34.5
Carbon monoxide	4,778.3	4,855.3	4,681.7	4,510.9	4,239.4
Non Methane VOC	858.1	858.3	828.4	779.9	722.0
Benzene	41.7	42.0	40.4	37.9	34.7
1,3-Butadiene	8.8	8.9	8.6	8.0	7.3
Cadmium	0.1	0.1	0.1	0.1	0.1
Lead	2,176.6	1,948.3	1,737.1	1,533.9	1,302.9
Mercury	0.3	0.3	0.3	0.3	0.3

Notes

1. Emissions from fuel sources which are used by road vehicles across industry groups.

Greenhouse gases are made up of carbon dioxide, methane and nitrous oxide. Weight in carbon c

Acid rain precursors are made of sulphur dioxide, nitrogen oxides and ammonia. Weight in sulphu

All figures are reported to 1 decimal place. Total figures are based on raw data and therefore may

Source: Ricardo Energy and Environment, Office for National Statistics

1995	1996	1997	1998	1999	2000	2001
113,102.8	117,323.4	119,200.1	118,738.1	119,647.6	118,780.9	118,187.3
110,370.5	114,786.9	116,753.7	116,412.1	117,400.1	116,634.2	116,233.3
924.6	879.0	811.3	737.4	681.4	616.8	540.3
1,807.8	1,657.5	1,635.0	1,588.6	1,566.1	1,529.9	1,413.7
779.7	740.2	695.2	657.2	612.4	570.4	539.5
50.7	37.4	27.5	22.6	13.6	5.9	3.4
715.6	685.8	645.8	608.3	568.5	520.3	495.0
13.4	17.1	21.8	26.3	30.3	44.2	41.1
40.4	41.3	40.3	39.5	39.0	35.0	34.2
34.7	35.5	34.4	33.5	32.9	28.9	28.1
4,019.1	4,016.1	3,525.4	3,237.1	2,877.7	2,420.2	2,451.7
672.3	644.7	572.2	517.4	457.5	386.6	351.4
32.0	30.6	26.5	23.7	20.7	8.7	9.7
6.7	6.3	5.5	4.9	4.2	3.5	3.1
0.1	0.1	0.1	0.1	0.1	0.1	0.1
1,074.2	917.4	808.0	601.2	329.7	30.0	29.9
0.3	0.3	0.3	0.3	0.3	0.3	0.3

dioxide equivalent.

r dioxide equivalent.

not sum due to rounding.

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2016	2017	2018	2019
<i>num in thousand tonnes of carbon dioxide equivalent</i>			
117,979.9	118,167.9	117,682.7	116,620.2
116,793.6	116,960.1	116,465.9	115,383.7
100.3	94.7	90.8	94.9
1,086.0	1,113.1	1,126.1	1,141.6
<i>num in thousand tonnes of sulphur dioxide equivalent</i>			
225.6	214.7	206.5	202.2
0.5	0.5	0.5	0.5
215.6	205.2	197.2	193.0
9.4	9.1	8.8	8.7
<i>Mass of air emissions per annum in thousand tonnes</i>			
20.8	20.3	20.2	20.2
14.0	13.4	13.1	13.0
297.5	259.2	235.9	231.9
33.3	31.1	30.1	30.4
0.8	0.7	0.7	0.7
0.2	0.2	0.2	0.2
<i>Mass of air emissions per annum in thousand tonnes</i>			
0.2	0.2	0.2	0.2
32.1	32.7	33.1	33.7
0.2	0.2	0.2	0.2