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## Carbon Emission Assumptions (October 2010)

### Kilograms of CO<sub>2</sub> per passenger per kilometre

We assume the following factors (kg CO<sub>2</sub> per passenger km) apply to each type of public transport:

Air journeys	0.1715	Source: DEFRA
Bus journeys	0.1339	Source: DEFRA
Coach journeys	0.0300	Source: DEFRA
Light Rail journeys	0.0768	Source: DEFRA
Tyne & Wear Metro journeys	0.1261	Source: DEFRA
Docklands Light Rail journeys	0.0792	Source: DEFRA
Croydon Tramlink journeys	0.0471	Source: DEFRA
Manchester Metrolink journeys	0.0425	Source: DEFRA
Rail journeys	0.0534	Source: DEFRA
London Underground journeys	0.0741	Source: DEFRA
Ferry journeys	0.1152	Source: DEFRA

DEFRA is the Department for Environment, Food and Rural Affairs

### Miles per gallon for different engine size

Using the [RAC's vehicle running costs tables](#) for new cars we base our estimations on the miles per gallon for different engine sizes. For the purpose of these estimations we assume a small petrol engine is up to 1.2 litres, a medium petrol engine is up to 1.8 litres, and a large petrol engine is up to 3 litres. We assume a small diesel engine is up to 1.4 litres, a medium diesel engine is 2 to 2.2 litres and a large diesel engine is over 3 litres.