Rail Factsheet

December 2019

About this factsheet

This factsheet provides an overview of key statistics on rail in Great Britain and the context of how rail fits in the wider transport system. The national rail statistics are for surface rail only, and do not include underground, light rail and tram systems.

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RESPONSIBLE STATISTICIAN: FURTHER INFORMATION:

Rail statistics overview In Great Britain in 2018/19:



increase in passenger distance¹.



23

~240.000

CO, 36.6g CO2e

10.3%

People employed⁹

Rail emissions¹⁰

Emissions per passenger km

Compared to 2017/18

0% Decrease in safety incidents involving passengers. Although total fatalities increased². Finance

Safety incidents



government support for the railways⁵.

Railway in Great Britain



6,012 km (38%) of route electrified7



19.2 years Average age of rolling stock⁷

Three additional stations were added in 2018/19: Kenilworth. Maghull North and Corfe Castle⁷.

Electrification schemes were completed on the London North Western route, Western route and across Scotland⁷.

Kelly Edwards (rail.stats@dft.gov.uk) Public: 020 7944 2419; Media: 020 7944 3021 Latest year compared to the previous year of available data





Department

for Transport



Increase in passenger satisfaction in Spring 2019 compared to Spring 2018⁶.

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Rail Travel

Car was the most common mode of transport, but travel by rail has increased the fastest



Car or van travel either as a passenger or driver remained the most common mode of travel in England, followed by walking then bus trips. However, fewer trips were taken by car or van, buses and walking in 2018 than in 2002. Rail trips accounted for just 2% of all trips in 2018 (3% when walking is excluded)¹¹, but rail trips have increased in England and more rail journeys were made in Great Britain than any other European country except for Germany¹².

Rail travel tended to be used for longer journeys and so made up a larger proportion of total distance and time spent travelling¹¹.

64

2002

-

22

2018

Trips per person per year

13

2002



2018

2002

Rail demand has more than doubled since rail privatisation in 1994/95

2002

2018



Rail passenger journeys in Great Britain, billions

2018

i This data covers England only and is

sourced from the NTS¹¹.



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Rail travel is highest in London and the South East



Almost two-thirds of rail journeys started or ended in London¹⁴



Rail travel is most prevalent in regions with large urban populations. Those in urban areas also tend to have lower levels of car ownership and make fewer car trips than those in rural areas¹¹.

London has, by far, the highest levels of rail usage in Great Britain. In 2017/18, London residents made on average 59 rail trips per person per year, whereas the England average was 22.

Londoners also tend to make shorter trips by rail. In 2017/18, London residents' average rail trip length was 17 miles compared to an England average of 30 miles¹¹.

Average trips per year by type of residence in England, 2017/18

_		Rail trips per year	Car trips per
	Urban Conurbation	34	469
dial 14	Urban city/town	15	645
	Rural town	10	738
ن	Rural village	11	797

i) This section refers to statistics from 2017/18

Rail Usage and Users

Rail travel in major cities is dominated by peak travel





Rail crowding exists across many major cities and has been worsening over recent years. Across major cities, the percentage of standing passengers in the AM peak has increased from 15.7% in 2010 to 19.8% in 2018. Birmingham and Cardiff have seen the largest increases in the proportion of passengers standing in the AM peak since 2010. However, new trains are now designed to accommodate increased numbers of passengers standing³. Over one million passengers travel to central London by train on a typical weekday; over half arrive in the AM peak (7-10am). In major cities outside London most travel still occurs in the peak, but more passengers travel in the PM peak (4-7pm; 27.7%) than the AM peak (24.9%)³.

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The difference is likely influenced by London having the highest proportion of commuting trips compared to other regions¹³. Road traffic also peaks between 4pm and 6pm on weekdays¹⁵.

Percentage of AM peak commuters standing



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Train punctuality has increased despite more services running

Percentage of trains 'on time' by financial quarter (Moving annual average)



Along with an increase in the number of passengers, planned passenger train services have increased by 24% since 2009/10⁴. Increasing the number of services can reduce punctuality due to congestion. However, in 2018/19 there was a 3% increase in planned train services and a 1.2% improvement in punctuality compared with the previous year⁴. Since the decline in punctuality in 2018/19 due to timetabling difficulties, punctuality has since increased.

• on time' services are those that arrive at the station early or less than one minute after the scheduled time. This is different from the Public Performance Measure (PPM) used previously.

Commuting is the most common journey purpose of rail passengers

Over half of all rail journeys in England in 2018 were for commuting and over a quarter for leisure¹¹. This reflects the demographic make-up of users, as most rail trips were made by working age people. Males undertook slightly more rail trips on average than females (24 trips per person per year vs 21 trips per person per year).



Rail trips per person per year by age and sex



Rail travel was also affected by income level. Those earning the highest made over three times more rail trips than those earning the lowest. Most rail users were in managerial and professional occupations, whereas those who are unemployed were more likely to use buses¹¹.

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Users with mobility difficulties travelled less than those without and were particularly less likely to use rail. On average they made 5.0 times fewer rail trips, but 1.6 times fewer car trips and 1.4 times fewer bus trips in 2018 than those without mobility difficulties¹¹.

1 This data is from the NTS and covers England only¹¹

Passenger satisfaction with train journeys was higher than car journeys

Passenger journeys rated as satisfactory overall across different modes for the latest years:



In Spring 2019, rail commuting journeys were rated less satisfactory overall than business or leisure journeys⁶.



In 2018/19, the three most frequent categories of rail passenger complaints were¹⁸:



Punctuality or reliability (22%)



Facilities on board (9%)



Sufficient room for all passengers to sit/stand (8%)

In 2017, 'tickets offering better value for money' was passengers' top priority for improving the railways¹⁹.

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Government funding of rail has increased



Government support increased in the last year. This is the second highest level on record (in real terms) and reflects investment in new projects, in particular High Speed 2 (HS2). Private investment was £1.1bn, the second highest value recorded since the time series began⁵. The income from passenger revenue has increased to £10.3 billion¹.

Projects: HS2

HS2 funding increased from £2.1 billion in 2017/18 to £2.6 billion in 2018/19; 37.0% of total government spend (£7.1 billion)⁵.

Income by source, real terms

	Government support	Private investment	Passenger revenue
2017/18	6.5	1.3	9.8
2018/19	7.1	1.1	10.3
% change	1 8.9%	🛂 19.3%	6 .0%

Government support and passenger journeys Index: 1985/86 = 100



Government support to rail has increased in line with passenger journeys since the mid-1980s and the recent increase in government support was driven by major rail projects and increased subsidy to TOCs⁵.

Railway Safety





Compared with other modes of transport, rail was the safest with 0.3 fatalities per billion passenger miles^{20,21}.



Over the twelve years to 2018/19, no passengers or workers have died from a mainline train accident.

There were 40 non-suicide rail fatalities in 2018/19, almost half the number from 2002/03. This is despite increases in passenger journeys and kilometres over this period.

Most rail fatalities are caused by trespass onto the railway by members of the public²¹.



Rail Freight

The proportion of freight moved by rail has increased

Passenger and freight trains share the rail network. In 2017, 9% of freight moved in Great Britain was by trains, a 0.4 percentage point increase compared with the previous year. In 2018/19, the total amount of rail freight transported increased to 17.4 billion net tonne kilometres, a 3% increase on 2017/18²².

This increase follows a recent decline in freight moved as the Department for Business, Energy and Industrial Strategy introduced a policy to phase out coal-based energy in 2015.

Meanwhile, construction and domestic intermodal freight moved have increased by 68% and 31% respectively over the last decade.



In 2017/18, 7.2 million lorry journeys were avoided as a result of rail freight movements, providing environmental benefits and reducing road congestion²².

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