Provisional estimates show that motor vehicle traffic was at a record high in the year ending December 2016.

The provisional figure, of 320.5 billion vehicle miles travelled on Great Britain’s roads in the year ending December 2016, was 1.2% higher than the previous year. This is a record level, 2% higher than the pre-recession peak in the year ending September 2007. Rolling annual motor vehicle traffic has now increased each quarter in succession for over three years.

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About provisional traffic estimates

This release presents provisional estimates for road traffic in Great Britain for January 2016 to December 2016. Provisional estimates are published quarterly and remain provisional until after they have been constrained by the final annual estimates each year. Final annual estimates for 2016 are due to be published in summer 2017. These provisional estimates are based on traffic data collected continuously from a network of around 200 automatic traffic counters. Final annual figures also incorporate manual traffic count data.

Traffic shows a seasonal pattern at the national level, being highest in summer and lowest in winter. This publication focuses on rolling annual traffic totals, which better illustrate medium and long term trends in traffic.

Footnote:
1. One billion = 1,000 million

Compared to the previous year, in the year ending Dec 2016:

► **Car traffic increased** by 0.7% to a record 249.5 billion vehicle miles, 1.3 billion more vehicle miles travelled than the pre-recession peak in the year ending September 2007.

► **Van traffic (LGV) continued to rise**, increasing by 3.4% to a new peak of 48.5 billion vehicle miles.

► **HGV traffic** grew by 2.8% overall to 17.1 billion vehicle miles.

► **Traffic on motorways and rural ‘A’ roads increased** to new record levels, rising by 2.1% and 2.5% respectively.

► **Traffic was broadly stable** on minor roads.
Road traffic trends are affected by a wide range of factors, including population levels, personal travel choices, and the demand for goods and services. The increase in traffic over the last three years is likely to reflect the growth both in the UK economy and population over the same period, and also the decline in average fuel prices from mid-2014 until February 2016.

**Chart 2: Index of rolling annual motor vehicle traffic in Great Britain, UK GDP, GB population and UK unleaded petrol prices, from 2007**

The summary table below shows how vehicle traffic in the year ending December 2016 compares to that in the year ending September 2016, and across a range of earlier years. More information on our provisional estimates, along with our TRA25 series of provisional traffic estimate tables, can be found online.

### Summary Figures

<table>
<thead>
<tr>
<th>Vehicle Category</th>
<th>Year ending Dec 2016</th>
<th>Last Quarter</th>
<th>Last Year</th>
<th>Five Years Ago</th>
<th>Ten Years Ago</th>
<th>Twenty Years Ago</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Motor Vehicle Traffic</td>
<td>320.5 billion</td>
<td>0.2%</td>
<td>1.2%</td>
<td>5.5%</td>
<td>3.0%</td>
<td>16.9%</td>
</tr>
<tr>
<td>Cars and Taxis</td>
<td>249.5 billion</td>
<td>0.1%</td>
<td>0.7%</td>
<td>3.7%</td>
<td>1.0%</td>
<td>11.6%</td>
</tr>
<tr>
<td>Light Goods Vehicles (LGV)</td>
<td>48.5 billion</td>
<td>0.6%</td>
<td>3.4%</td>
<td>17.2%</td>
<td>21.4%</td>
<td>69.0%</td>
</tr>
<tr>
<td>Heavy Goods Vehicles (HGV)</td>
<td>17.1 billion</td>
<td>0.4%</td>
<td>2.8%</td>
<td>7.6%</td>
<td>-5.1%</td>
<td>5.1%</td>
</tr>
<tr>
<td>Motorways</td>
<td>67.9 billion</td>
<td>0.4%</td>
<td>2.1%</td>
<td>9.9%</td>
<td>9.9%</td>
<td>39.7%</td>
</tr>
<tr>
<td>Rural ‘A’ Roads</td>
<td>93.6 billion</td>
<td>0.5%</td>
<td>2.5%</td>
<td>6.7%</td>
<td>4.9%</td>
<td>21.9%</td>
</tr>
<tr>
<td>Urban ‘A’ Roads</td>
<td>50.2 billion</td>
<td>0.2%</td>
<td>1.1%</td>
<td>2.0%</td>
<td>-2.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>Rural Minor Roads</td>
<td>44.2 billion</td>
<td>-0.3%</td>
<td>-0.6%</td>
<td>7.4%</td>
<td>4.8%</td>
<td>20.9%</td>
</tr>
<tr>
<td>Urban Minor Roads</td>
<td>64.6 billion</td>
<td>-0.2%</td>
<td>-0.3%</td>
<td>1.2%</td>
<td>-3.4%</td>
<td>4.4%</td>
</tr>
</tbody>
</table>

**Footnotes:**
2. Economic and population data are sourced from the Office for National Statistics, available [here](#) and [here](#) respectively.
3. Fuel price data is sourced from the Department for Energy and Climate Change, available [here](#).
Car, Van and Lorry traffic have all increased over the last year.

Compared to the previous year, in the year ending December 2016:

**Car and taxi traffic** reached a new high of 249.5 billion vehicle miles, slightly (0.5%) above the previous peak of 248.2 billion vehicle miles for the year ending September 2007. Car traffic has grown for the last four years by an average of 0.9% per year.

**LGV traffic** increased by 3.4% to a record high of 48.5 billion vehicle miles. For the last four years, LGV traffic has increased on average by 4.1% per year, and has been the fastest growing traffic type over this period.

**HGV traffic** increased by 2.8% to 17.1 billion vehicle miles. For the last four years, HGV traffic has grown on average by 2.5% per year making it the second fastest growing traffic type in this period. However, HGV traffic remains below the peak of 18.2 billion vehicle miles observed in the year ending June 2008.

**Long term trends**

Over the last 20 years, traffic has increased at varying rates across vehicle types:

- **All Motor Vehicles**: 16.9%
- **Car**: 11.6%
- **Van**: 69.0%
- **Lorry**: 5.1%

**Chart 3: Rolling annual index of road traffic in Great Britain, by vehicle type from 1993** [TRA2501f]

**Share of traffic by vehicle type, in the year ending December 2016**

- **Car**: 77.8%
- **Van**: 15.1%
- **Lorry**: 5.3%
Provisional traffic estimates on motorways and rural ‘A’ roads were the highest ever recorded.

Compared to the previous year, in the year ending December 2016:

- **Motorway traffic** increased by 2.1% to 67.9 billion vehicle miles. Over the last six years, Motorway traffic has increased on average by 1.8% per year.

- **‘A’ road traffic** showed an increase of 2.0%. This was mainly driven by traffic on rural ‘A’ roads, which grew by 2.5% to 93.6 billion vehicle miles. Traffic on urban ‘A’ roads increased by 1.1% to 50.2 billion vehicle miles.

**Minor road traffic** has been broadly stable for the last six quarters, at 44.2 billion vehicle miles for minor rural roads, and 64.6 billion vehicle miles for urban minor roads.

**Long term trends over the last 20 years**

Levels have changed at varying rates across road types.

![Chart 4: Rolling annual index of road traffic in Great Britain by road type from 1993](TRA2502f)

**Chart 4: Rolling annual index of road traffic in Great Britain by road type from 1993**

Share of traffic by road type, in the year ending December 2016

- Motorways: 21.2%
- Rural ‘A’: 29.2%
- Rural Minor: 13.8%
- Urban ‘A’: 15.7%
- Urban minor: 20.2%
Vehicle Type and Road Type

Provisional estimates indicate that car traffic was higher than ever before on motorways in the year ending December 2016.

Compared to the previous year, in the year ending December 2016:

- **Car traffic** increased on motorways and rural ‘A’ roads to the highest ever levels of 49.8 and 71.8 billion vehicle miles, respectively.
- **LGV traffic** grew on all road types apart from rural minor roads. LGV traffic reached a new peak on motorways and ‘A’ roads.
- **HGV traffic** increased by 4.1% on motorways to a new peak of 7.9 billion vehicle miles. HGV traffic also increased on rural ‘A’ roads, and was broadly stable on urban ‘A’ roads.

Figure 5: Provisional annual vehicle traffic (billion vehicle miles) by road class and selected vehicle types in Great Britain for year ending December 2016 [TRA2503e]

![Figure 5: Provisional annual vehicle traffic (billion vehicle miles) by road class and selected vehicle types in Great Britain for year ending December 2016](image)

Figure 6: Percentage change on previous year of traffic by road class and selected vehicle types in Great Britain [TRA2503g]

<table>
<thead>
<tr>
<th></th>
<th>Motorways</th>
<th>Rural 'A' Roads</th>
<th>Urban 'A' Roads</th>
<th>Rural Minor Roads</th>
<th>Urban Minor Roads</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cars</td>
<td>↑ 1.6 %</td>
<td>↑ 2.3 %</td>
<td>0.3 %</td>
<td>0 %</td>
<td>↓ −1.4 %</td>
</tr>
<tr>
<td>LGVs</td>
<td>↑ 3.8 %</td>
<td>↑ 3.9 %</td>
<td>↑ 5.6 %</td>
<td>↓ −3.6 %</td>
<td>↑ 6.4 %</td>
</tr>
<tr>
<td>HGVs</td>
<td>↑ 4.1 %</td>
<td>↑ 2.1 %</td>
<td>−0.1 %</td>
<td>*</td>
<td>*</td>
</tr>
</tbody>
</table>

* Data not published for these breakdowns.

No symbol is used for changes less than 0.5%

Provisional traffic estimates are based on a sample of roads. Therefore, estimates split by vehicle and road type may be more prone to change when constrained by the final annual estimates.
Background Information

Users and uses of these statistics

Road traffic data are a key source of management information on the country’s infrastructure. Main uses of road traffic statistics are summarised online in our report “Meeting customers’ needs: Users and uses of road traffic statistics and data”. These include:

- Highways England, Local Authorities (including Transport for London) and devolved governments, who use the data for transport planning, road engineering and policy monitoring at a regional or local level.
- Road accident and safety statistics, who use our annual and quarterly traffic estimates to produce road safety and accident rates, as required for the Strategic Framework for Road Safety.

We welcome feedback on any aspects of the department’s road traffic statistics including content, timing, and format. Please send any queries you have by email, to roadtraff.stats@dft.gsi.gov.uk.

Sources, strengths and weaknesses of the data

Provisional estimates are based on data from around 200 automatic traffic counters and give an indication of changes in traffic levels for different types of vehicle and on different types of road in Great Britain as a whole. Final annual estimates make use of data from around eight thousand manual traffic counts in addition to the data from the automatic traffic counters and can estimate traffic levels in local areas and on specific road links, which cannot be produced from the provisional data.

Automatic traffic counters classify vehicle types based on characteristics such as axle-spacing and vehicle length. This creates the possibility for misclassification of vehicles with a typical characteristics, meaning that provisional estimates for different vehicle types are less robust than the final estimates which also utilise the more accurate manual count data. The classification algorithms are continually developed to ensure that vehicle classification is as accurate as possible.

Further statistical guidance can be found online here: www.gov.uk/government/publications/road-traffic-speeds-and-congestion-statistics-guidance

Due to the methodology used to produce provisional traffic estimates, historic figures are subject to revision. However, these revisions are typically minor and will not affect qualitative patterns in the data. Provisional quarterly and annual traffic estimates for all motor vehicles have historically been accurate (typically within 1.5%) when compared with the final estimates, as illustrated in the table below.

<table>
<thead>
<tr>
<th>Billion vehicle miles/percentage</th>
<th>2014</th>
<th>2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>All motor vehicle traffic</td>
<td>Q1</td>
<td>Q2</td>
</tr>
<tr>
<td>Provisional estimates at time of publication</td>
<td>77.4</td>
<td>77.2</td>
</tr>
<tr>
<td>Final estimates</td>
<td>77.3</td>
<td>77.3</td>
</tr>
<tr>
<td>Difference (%)</td>
<td>0.1</td>
<td>-0.2</td>
</tr>
</tbody>
</table>

Next release

The next Provisional Road Traffic Estimates, for the year ending March 2017, are due to be published in May 2017. Final annual traffic estimates for 2016 are due to be published in May 2017.

National Statistics

National Statistics are produced to high professional standards, as set out in the National Statistics Code of Practice. They undergo regular quality assurance reviews to ensure they meet customer needs.

Details of Ministers and officials who receive pre-release access to these statistics up to 24 hours before release can be found here: www.gov.uk/government/publications/pre-release-access-lists-for-road-traffic-speeds-and-congestion-series

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