



Scottish Transport Statistics



No. 38

2019 Edition

A National Statistics Publication for Scotland





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Conventions

Symbols used: The following symbols are used throughout:

- .. not available
- or 0 nil or less than half the final digit shown (*NB:* these are used interchangeably)
- | break in series

Rounding: In some tables, where figures have been rounded independently, the sum of constituent items may not always appear to agree exactly with the total shown.

Enquiries and suggestions

Enquiries about the statistics in this publication should generally be made to the relevant producer body as indicated in the Notes, Definitions and Sources sections of the publication.

Other enquiries (such as about the availability of other editions) should be made to:

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Feedback on the usefulness of this publication including suggestions for improvement be addressed to the above address.

Web version of the publication

Transport Scotland Statistics publications and Excel spreadsheet versions of the tables may be found on the Transport Scotland Website. Go to: <https://www.transport.gov.scot/our-approach/statistics#42763>

Updated versions of *some* of the tables and charts in this edition will be made available, in due course.

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PREFACE

Introduction

This is the 2019 edition of *Scottish Transport Statistics*, and is the thirty eighth publication in the series. The publication presents a comprehensive statistical picture of transport activity and covers a wide range of topics.

This is a National Statistics publication.

This publication presents a range of both National Statistics and Official Statistics. National Statistics are certified as meeting the high professional standards within the UK Statistics Authority's Code of Practice for Official Statistics:

<http://www.statisticsauthority.gov.uk/assessment/code-of-practice/index.html>.

Official Statistics follow the Code of Practice as closely as possible but have not been certified as Code compliant. They are fit for purpose and are of sufficient quality to meet user needs. This publication also includes statistics produced out with the Scottish Government. Such statistics are marked by the relevant source. Users should be aware that although we did not directly produce these, we believe them to be a good source hence their inclusion within the publication.

The Structure of the Publication

The Summary section provides a compact view of the key findings and trends over the past 10 years and includes some comparisons with the figures for Great Britain (or the UK) and some longer-term trends. Longer-term trends are included in tables on the Transport Scotland website.

This is followed by 13 chapters, each with a graphical summary page, statistical commentary and corresponding tables.

A Notes, Definitions and Sources section then provides information users should be aware of when using the statistics, descriptions of specific terms used and a note on the sources of statistics used when compiling the publication.

Chapter 12 looks at International Comparisons, comparing Scotland with some EU countries.

Finally, there are some other short sections covering:

- recent transport research projects;
- other Transport Statistics publications; and
- the Transport Scotland website - where updated versions of some of this edition's tables and charts can be found.

We would welcome comments from users on the publication and/or suggestions for new data sources that could be included in future publications. Comments can be provided to us at the address below:

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DETAILED LIST OF STATISTICAL TABLES AND MAPS

Note: Most tables provide a time series of figures which are identified in the table headings rather than in the title of the table. Where a table relates to a *single* year, the relevant year is included in the title. Tables providing main figures for a single year, with a few figures of earlier years appear as single year tables in this list.

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(*) this table, or this chapter, consists of figures which are outwith the scope of National Statistics

Summary
TRANSPORT
Statistics

including
Historical
Series

SUMMARY TRANSPORT STATISTICS

1. Introduction

This chapter provides some main points from the statistics on transport in Scotland and summary tables, including longer term trends than are included in individual chapters.

2. The content of this chapter

The following chapter presents a selection of key facts from some of the topics covered in the main publication, alongside graphical summaries and charts depicting longitudinal trends. These are as follows:

3. Overview of travel in Scotland
4. Motor vehicles, traffic and road casualties
5. Public transport: bus, rail, air and ferry
6. Personal travel (e.g. driving, walking and cycling; travel to work and school)
7. Freight
8. Cross-border transport
9. Environment and emissions

The *tables*, which appear at the end of the chapter, provide information on long-term trends in Scottish transport, including comparisons between Scotland and Great Britain.

3. Overview of travel in Scotland

517 million public transport journeys were made by bus, rail, air and ferry in 2018-19 (a fall from 525 million in 2017-18):

- 73% of these journeys were by bus;
- 19% by rail;
- 6% by air; and
- 2% by ferry

2/3 of commuters said that they travelled to work by car or van in 2018, 12 per cent walked, 10 per cent went by bus, 6 per cent took a train and 3 per cent cycled.

Over the last five years, there have been increases in car, air, rail and ferry passenger numbers. For reference, Scotland's population increased by 2 per cent over the same period.

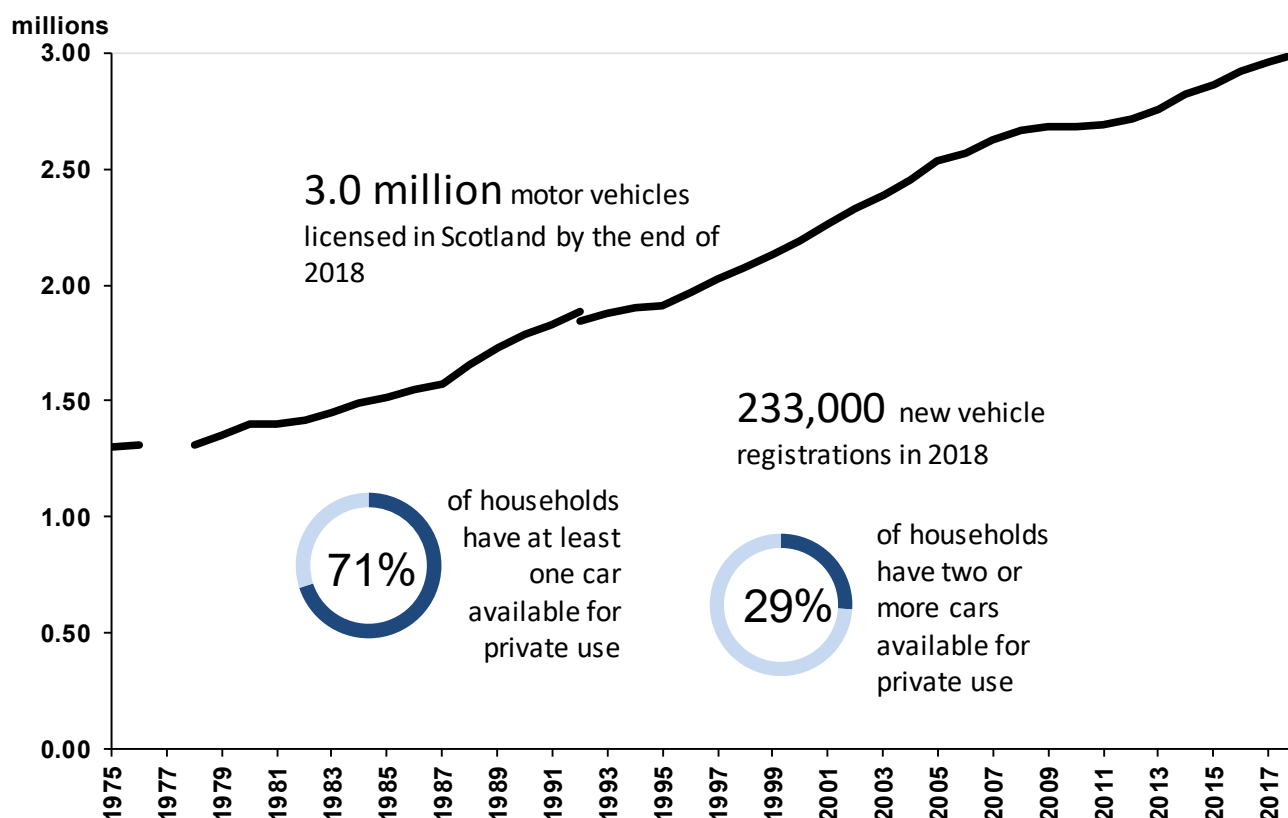
	2013-14	2018-19	Change over 1 year	Change over 5 years
Car Traffic (m/veh km) on all roads	33,811	36,413	0.6%	7.7%
Pedal Cycles (m/veh km) on all roads		313	7.9%	
ScotRail Passengers (millions)	86.3	97.8	0.0%	13.3%
Bus Passengers (millions)	421	380	-2.2%	-9.8%
Air Passengers (millions)	23.3	29.4	2.1%	26.2%
Ferry Passengers (millions)	9.7	10.3	0.2%	6.2%

Source: STS 2019, Table S1 except Traffic estimates from table 5.3. Changes to the methodology for traffic estimates after 2015 had a disproportionate effect on pedal cycles. Therefore, pedal cycle comparisons with 2013-14 are not available.

4. Motor vehicles, traffic and road casualties

4.1 Motor vehicles

Figure 1: Motor vehicles licensed in Scotland



3.0 million motor vehicles licensed in Scotland in 2018, increasing to its highest ever level. This was 12% higher than in 2008 and up from 0.9 million in 1964.

7% decrease in new vehicle registrations in 2018 compared to 2017; 250,000 in 2017, 230,000 in 2018. This was the second consecutive annual decrease.

Households with:

more people



a higher net income



a more rural/remote location



were likely to own more cars.

There were fewer vehicles per person in Scotland than in Great Britain (55 compared to 59 per hundred population), as has consistently been the case. The number of vehicles per person was rising steadily in Scotland and GB from 2003 until 2007 and has remained fairly static since.

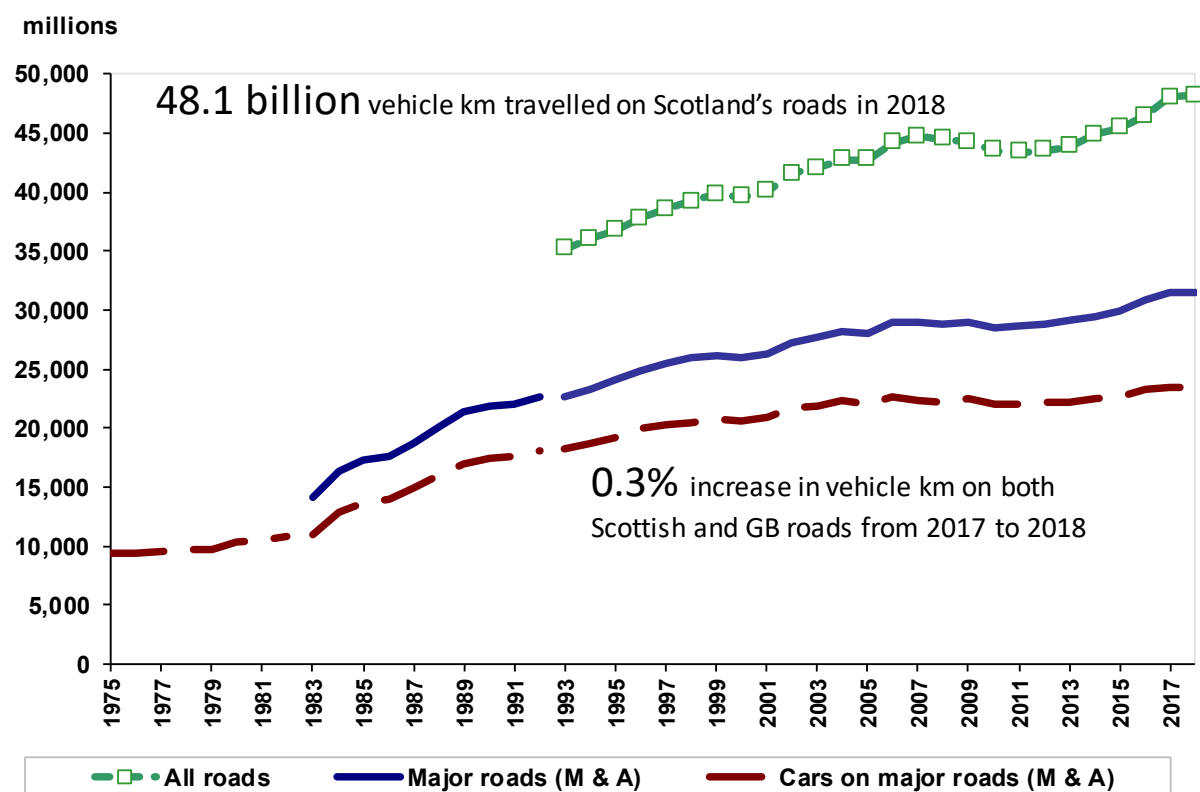
4.2 The road network

56,591 kilometres of public road in Scotland in 2018, 7% of which was trunk road; managed centrally by Transport Scotland. The remaining roads are the responsibility of local authorities.

10.4 kilometres of road per 1,000 people in Scotland compared to 6.2 km per 1000 people in GB.

4.3 Road traffic

Figure 2: Traffic in Scotland (vehicle km)



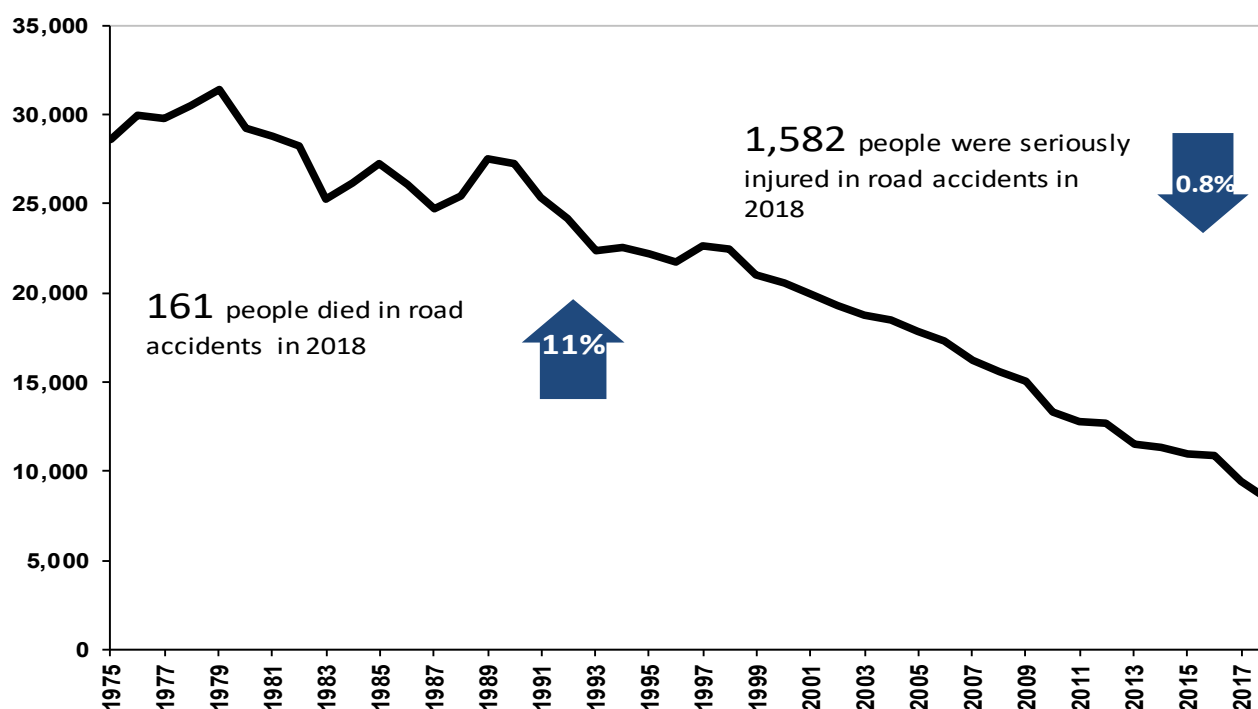
48.1 billion vehicle kilometres were travelled on Scotland's roads in 2018— an increase of 0.3% over the year, 8% more than in 2008 and the highest recorded level.

Long-term, the volume of car traffic on major roads (Motorways and A roads) has more than doubled, from an estimated 9,300 million vehicle kilometres in 1975 to between 28,000 and 30,000 million vehicle kilometres for the last ten years. Since 2004, the length of major roads in Scotland has remained at around 3,500 km, increasing slowly but steadily over this period.

Car and van users reported that 13% of journeys were delayed due to traffic congestion in 2018; the same percentage as in 2008.

4.4 Road casualties

Figure 3: Reported road casualties of all severities – including fatal, seriously injured and slightly injured



161 people were killed and 1,582 seriously injured in road accidents in 2018.

The total number of casualties on Scottish roads has fallen by 11% between 2017 and 2018 and are at their lowest level since records began over 50 years ago.





46% fall in road accident injuries seen over the last ten years.

Casualties of all severities from road accidents have been falling for the last ten years, with number of deaths falling in every year apart from 2014, 2016 and 2018 over this period.

Serious injury casualties fell in most years in the last ten apart from small rises in 2008, 2012, 2014 and 2016 while there have been no increases in slight injury casualties.

0.32 people were killed or seriously injured per thousand population for Scotland compared to **0.42** for Great Britain in 2018.

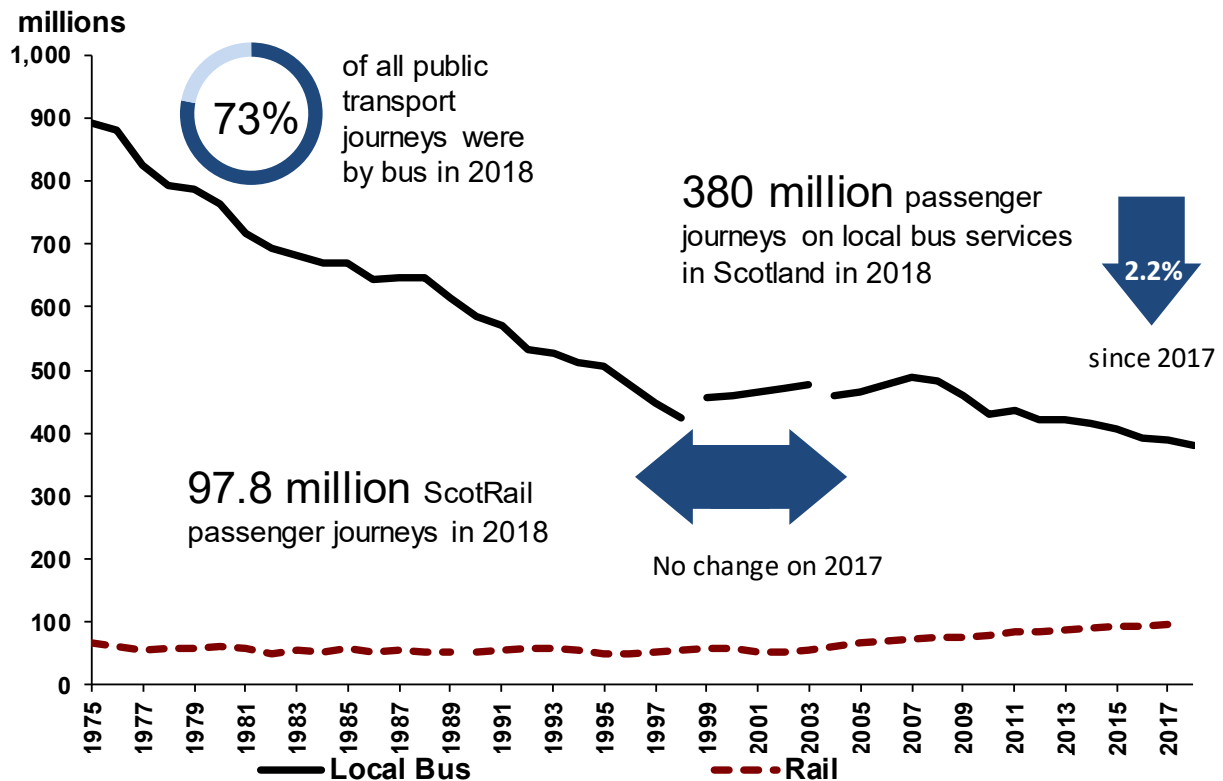
Road accident casualties by mode of transport:

Mode of transport	Share of all road casualties	Yearly change in number of casualties
	60%	-11%
	15%	-8%
	8%	+3%
	8%	-13%

5. Public transport: bus, rail, air and ferry

5.1 Local bus and rail services

Figure 4: Bus and rail passenger numbers in Scotland



Bus

380 million bus passenger journeys in 2018-19, a decrease of 2.2% on the previous year. Two in five of bus journeys in 2018/19 were made under the National Concessionary Travel scheme.

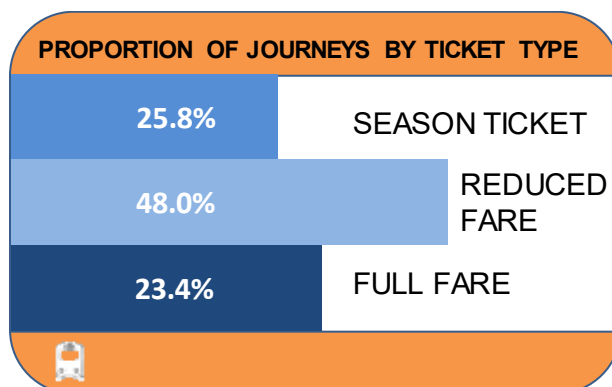
Bus passenger journeys have generally been falling in the long term, almost halving between 1960 and 1975 and roughly halving again since then.

Rail

97.8 million ScotRail passenger journeys in 2018-19 – the same number as the previous year.

28% increase in journey numbers since 2008-09.

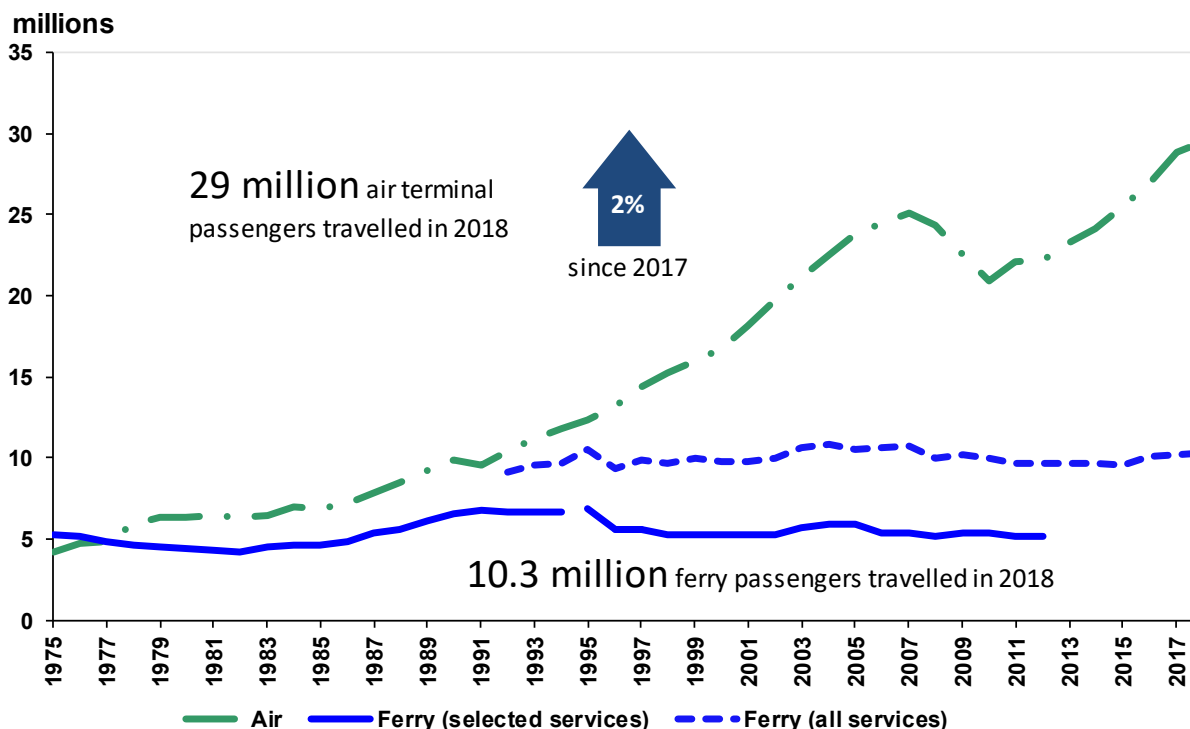
Rail patronage has been steadily rising since 1994-95.



Based on ORR data for 2017-18

5.2 Air and ferry passengers

Figure 5: Air and ferry passenger numbers in Scotland



Note: in the above figure, 'selected services' refers to those services for which data is available back to 1975 – Caledonian MacBrayne, P&O Scottish Ferries, Northlink Orkney and Shetland Ferries and Orkney Ferries.

Air

29 million air terminal passenger numbers in 2018, up 2% over the year and 21% higher than 2008. Over the longer term, passenger numbers have generally been increasing.

In 2018, 5% of all terminal passenger traffic was within Scotland, 39% was to/from other parts of the UK, and 44% was between Scotland and mainland Europe.

Ferry

10.3 million passengers travelled by ferry (including traffic within Scotland and to and from Northern Ireland) in 2018 – a 0.2% increase on the previous year.

3.5 million vehicles were carried on all ferry routes in 2018 (including traffic between Scotland and Northern Ireland, between Scotland and Europe and within Scotland), a 0.3% increase on the previous year.

As can be seen above, long-term trends were affected by the reduction in traffic that followed the opening of the Skye Bridge in 1995.

The average delay for Glasgow and Edinburgh airports is at a ten-year low



DELAYS












	Average Delay	% flights delayed by more than 30 minutes
Edinburgh	14 minutes	13%
Glasgow	14 minutes	14%

6. Personal travel (e.g. driving, walking and cycling; travel to work and school)

70% of people aged 17 or over had a full driving licence in 2018. The proportion of men aged 17+ holding a licence was higher than women (76% compared to 64%) however, the proportion of women with a license has been slowly increasing over time.

41% of people drove every day in 2018. 4 per cent fewer people reported driving every day in 2018 than ten years ago. Car ownership has remained fairly stable over this period, with around 71% of households having access to at least one car.

Figure 6: Main modes of travel to work and school

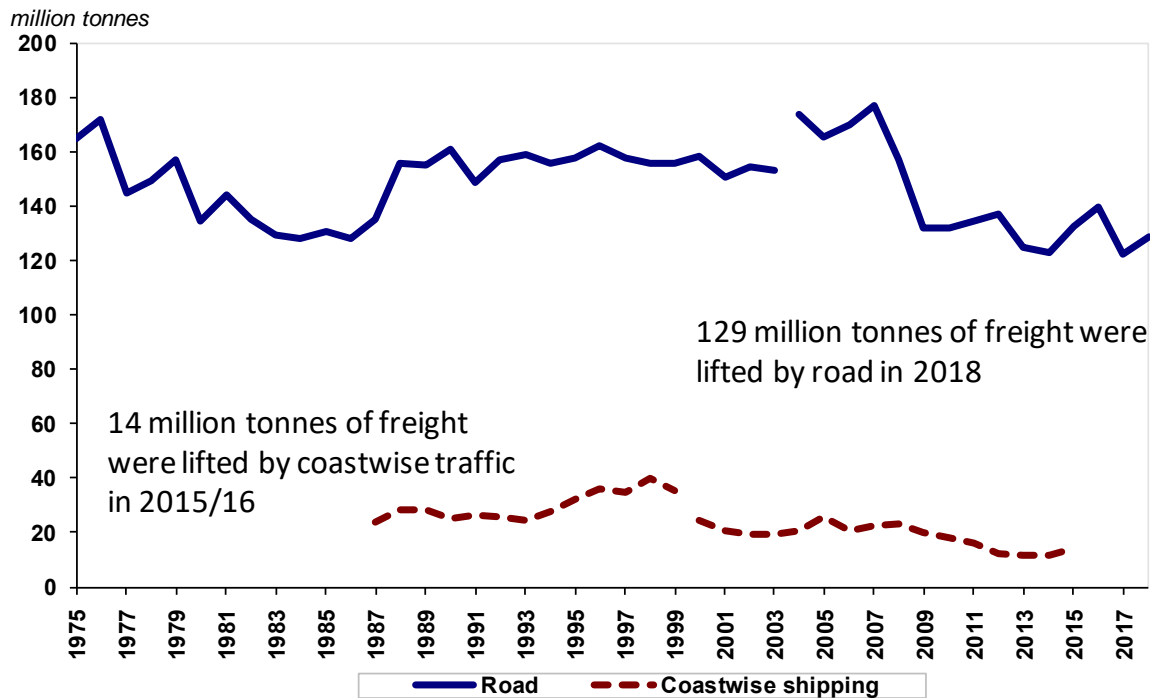
Main mode of travel to work:			Main mode of travel to school:		
Car (driver)		62.9%	Walk		52.3%
Walk		11.8%	Car/Van		24.2%
Bus		10.1%	Bus		19.0%
Car(passenger)		4.8%	Other		2.0%
Rail		5.5%	Cycle		1.9%
Cycle		2.8%	Rail		0.7%
Other		2.2%			

30% of journeys to work were by public or active travel in 2018, one percent less than 2008. Public and active travel to work has remained at around 30% since 2008, with cycling retaining a low modal share.

65% of people were very or fairly satisfied with public transport in 2018, a decrease on 2017 (69%). Satisfaction levels have been at around 70% for the last ten years.

7. Freight

Figure 7: Freight lifted in tonnes

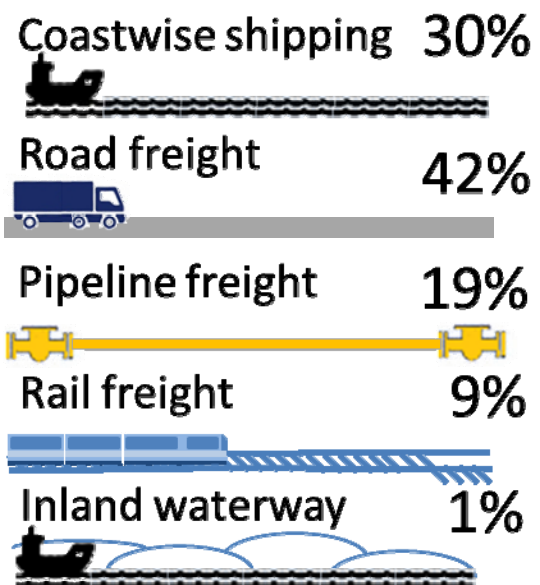


129 million tonnes of road freight was lifted in Scotland in 2018.

By weight, much more freight is carried by road than by any other mode of transport.

Modal share of freight in tonne-kilometres in 2012:

Before 2011, more tonne-kilometres of freight (a measure which takes account of the distance that freight is carried) were moved by coastwise shipping than any other mode of transport. However, since then more tonne-kilometres are moved by road.



After falling between 1960 and 1994-5, rail freight traffic has since increased in most years until 2005, when it began to decline again.

14 million tonnes of freight were lifted by coastwise shipping in 2015 – a fall from 25 million in 2000.

The amount of oil carried in Scottish pipelines rose rapidly to 23 million tonnes in 1977, and has fluctuated since then, levelling out at 28 million tonnes in 1998. Per head of population, the amount of freight lifted by pipeline is significantly greater in Scotland than in Great Britain.

8. Cross-border transport

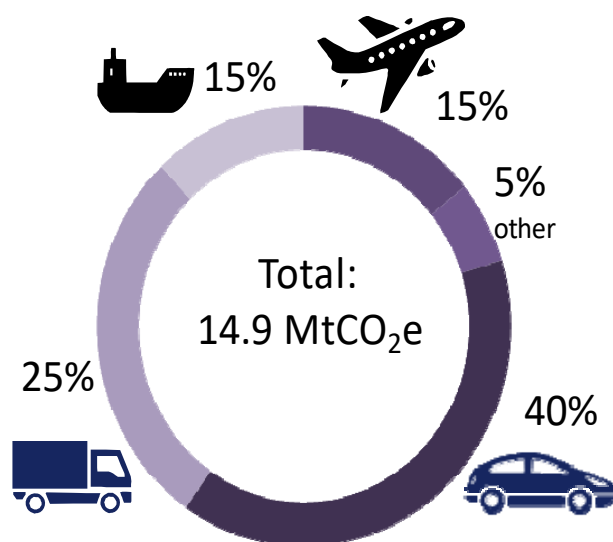
13.2 million air and ferry passenger journeys were made to other parts of the UK in 2018, an increase of 1% since 2017. The majority of these journeys were made by air (11.5 million).

The most recently available figures for rail journeys show 9.6 million passenger journeys were made to other parts of the UK in 2017.

16 million passenger journeys were made to and from other countries by air in 2018, an increase of 3% since 2016.

9. Environment and emissions

Figure 9: Share of greenhouse gas emissions by mode in 2017

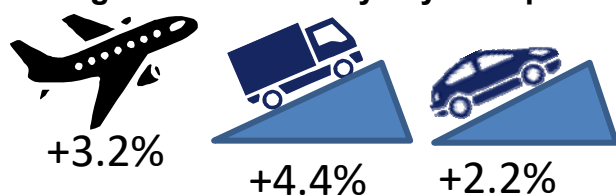


37% of Scotland's greenhouse gas emissions are accounted for by transport.

8.9% of the UK's transport emissions are accounted for by Scotland

Newly registered cars are becoming more efficient in terms of carbon dioxide emissions, with average CO₂ emissions in Scotland for new car registrations falling by 21% over the last ten years and 3% lower than last year.

Change in emissions by key transport mode 2015-2016



There has been a 14 fold increase in the numbers of ultra-low emission vehicles (ULEVs) registered in Scotland between 2014 Q1 and 2019 Q3, with the number rising from 1,048 to 14,803.

The biggest increase has been in Plug-in-Grant Eligible cars which accounted for 76 per cent of newly registered ULEVs and 51 per cent of all ULEVs in 2018.

At the end of 2018, ULEVs accounted for 0.4% of vehicles licensed in Scotland.

Table S1 Summary of Transport in Scotland
Numbers

SUMMARY

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Vehicles Licensed											<i>thousands</i>
Private and Light Goods ¹	2,347	2,362	2,364	2,369	2,395	2,436	2,496	2,537	2,594	2,638	2,665
All Vehicles ¹	2,665	2,684	2,685	2,691	2,717	2,759	2,821	2,863	2,919	2,962	2,991
New Registrations	215	216	209	202	216	241	262	268	270	250	233
Local Bus Services²											<i>millions</i>
Passenger Journeys (boardings) ³	484	458	430	436	420	421	414	407	393	388	380
Vehicle Kilometres ³	386	377	346	338	327	332	336	338	335	333	334
Passenger Revenue at latest year's prices ³	749	749	713	717	732	717	700	722	721	701	694
											<i>£ million</i>
Freight Lifted											<i>million tonnes</i>
Road ^{4,9}	157.0	131.9	131.9	134.8	137.2	125.0	122.9	132.7	139.9	122.6	128.6
Rail ²	10.36	9.69	8.33	9.87	8.43	..	..	..	..	..	..
Coastwise traffic	23.3	19.8	18.0	16.3	12.5	11.4	11.8	14.2	..	..	..
One Port traffic	1.75	3.59	1.88	2.42	2.57	2.10	2.19	..	..	..	..
Inland waterway traffic	12.19	10.10	10.89	10.70	10.79	10.69	9.41	10.14	9.42	..	..
Pipelines ⁵	27.6	27.6	27.6	27.8	28.2	..	..	..	..	..	..
Total	232.2	202.7	198.6	201.9	199.7	..	..	..	..	..	..
Public Road Lengths											<i>kilometres</i>
Trunk (A and M) ¹⁰	3,505	3,520	3,518	3,536	3,566	3,565	3,637	3,638	3,669	3,681	3,735
Other Major (A and M)	7,421	7,421	7,414	7,467	7,473	7,473	7,406	7,414	7,418	7,427	7,500
Minor Roads	44,418	44,591	44,694	44,769	44,873	44,938	45,011	45,100	45,163	45,257	45,355
All Roads ¹⁰	55,344	55,532	55,626	55,772	55,912	55,975	56,054	56,152	56,250	56,364	56,591
Road Traffic											<i>million vehicle-kilometres</i>
Motorways ¹¹	6,683	6,633	6,503	6,570	7,140	7,262	7,421	7,477	7,829	8,054	8,518
A roads	22,126	22,327	21,992	21,996	21,712	21,786	22,025	22,395	23,019	23,353	23,023
All roads (incl. B, C, uncl.)	44,470	44,219	43,488	43,390	43,549	43,840	44,839	45,374	46,459	47,986	48,137
Reported Road Accident Casualties											
Killed	270	216	208	185	176	172	203	168	191	145	161
Killed and Serious	2,845	2,503	2,177	2,063	2,157	1,839	1,904	1,770	1,888	1,739	1,743
All (Killed, Serious, Slight)	15,592	15,043	13,338	12,785	12,712	11,492	11,302	10,977	10,897	9,433	8,411
Passenger Rail ^{2,6}											<i>millions</i>
ScotRail passenger journeys ⁶	76.4	76.9	78.3	81	83.3	86.3	92.7	93.2	94.2	97.8	97.8
ORR data:											
Rail journeys in/from Scotland ⁷	76.3	76.5	79.4	83.3	85.8	86.7	91.7	93.4	94.2	97.1	..
Passenger receipts (2017 £mill)	390.5	429.1	444.6	455.7	473.5	487.6	512.6	531.49	537.3	610.6	..
Air Transport											<i>thousands</i>
Terminal Passengers	24,348	22,496	20,907	22,065	22,207	23,250	24,076	25,507	26,924	28,833	29,443
Transport Movements	417.1	382.7	354.4	366.3	372.1	376.4	376.2	376.4	376.0	383.9	376.6
Freight	50.2	50.9	47.5	45.2	52.2	54.2	59.9	56.4	55.9	60.3	62.3
											<i>thousand tonnes</i>
Ferries ⁸											<i>thousands</i>
Passengers	10,014	10,219	9,990	9,631	9,698	9,662	9,679	9,554	10,073	10,255	10,279
Vehicles	3,056	3,135	3,072	3,071	3,076	2,972	3,074	3,146	3,372	3,467	3,456
of which on routes within Scotland											
Passengers	8,001	8,272	8,016	7,773	7,888	7,831	7,884	7,824	8,320	8,501	8,529
Vehicles	2,569	2,648	2,554	2,551	2,628	2,577	2,626	2,706	2,930	3,060	3,043

1 DfT has revised the figures for the light goods and goods body types back to 2001. DfT does not have the underlying data to revise earlier years' figures.

2 Financial years

3 The DfT have revised figures from 2004/05 onwards as a result of methodological improvements. Figures prior to this period are not directly comparable. See Chapter 2 for more detail. Figures from 2006 include Government support for buses which is not available for the two previous years.

4 Freight lifted in Scotland by UK-registered hauliers, regardless of whether the destination is in Scotland, elsewhere in the UK or outwith the UK.

The figures for 2004 onwards are not compatible with those for earlier years due to changes in methodology and processing system for the survey.

5 The estimated amounts of crude oil and products carried by pipelines over 50km in length. 2012 figures are provisional.

6 ScotRail introduced a new methodology which better estimates Strathclyde Zonecard journeys from 2009/10. Figures from 2003/04 onwards present the impact of this on previously reported data to provide a more meaningful year on year comparison. Note that this has no impact on actual journeys undertaken.

7 The Office of Rail and Road (ORR) produce total passenger figures. These are not adjusted to reflect ScotRail's revised methodology and are therefore not comparable with ScotRail figures. There is a series break between 2007-08 and 2008-09 due to a change in the methodology. From 2008-09 estimates of PTE travel (zone cards) are included.

8 Services to Europe, Northern Ireland and within Scotland (Previous versions of STS only included services where data is available back to 1975, this can still be found in Table H1). Figures for passenger numbers on the Corran ferry service in 2013, 2014 and 2015 have not been included in the total for Scotland as the figures are new estimates and considered as 'data under development'.

9 Domestic freight estimates for 2006 to 2009 were revised on 27 October 2011.

10 Totals have been revised in 2012 to include slip roads on Trunk A roads which had previously excluded. See Road Network chapter for more information.

11 Changes in the layout of the M74/M77/M8 during 2012 are likely to have affected the traffic data for motorways.

Table S2 Summary of Transport in Scotland - index numbers

SUMMARY

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Vehicles Licensed											<i>Index 2008=100</i>
Private and Light Goods ¹	100.0	100.6	100.7	100.9	102.0	103.8	106.3	108.1	110.5	112.4	113.5
All Vehicles ¹	100.0	100.7	100.7	101.0	101.9	103.5	105.9	107.4	109.5	111.1	112.2
New Registrations	100.0	100.5	97.1	94.1	100.7	112.3	121.9	124.5	125.7	116.1	108.4
Local Bus Services²											
Passenger Journeys (boardings) ³	100.0	94.7	89.0	90.1	86.9	87.1	85.7	84.1	81.3	80.3	78.5
Vehicle Kilometres ³	100.0	97.7	89.8	87.6	84.8	86.0	87.1	87.7	86.9	86.3	86.5
Passenger Revenue	..	..	..	..	..	..	..	..	..	..	..
at latest year's prices ³	100.0	100.0	95.2	95.8	97.8	95.7	93.5	96.4	96.3	93.6	92.7
Freight Lifted											
Road ^{4,9}	100.0	84.0	84.0	85.9	87.4	79.6	78.3	84.5	89.1	78.1	81.9
Rail ²	100.0	93.5	80.4	95.3	81.4	..	..	..	..	..	..
Coastwise traffic	100.0	85.2	77.1	70.1	53.9	48.9	50.7	61.0	..	..	..
One Port traffic	100.0	205.1	107.4	138.3	146.9	120.0	125.1	..	..	..	..
Inland waterway traffic	100.0	82.9	89.3	87.8	88.5	87.7	77.2	83.2	77.3	..	..
Pipelines ⁵	100.0	100.0	100.0	100.7	102.2	..	..	..	..	..	..
Total	100.0	87.3	85.5	87.0	86.0	..	..	..	..	..	..
Public Road Lengths											
Trunk (A and M) ¹⁰	100.0	100.4	100.4	100.9	101.8	101.7	103.8	103.8	104.7	105.0	106.6
Other Major (A and M)	100.0	100.0	99.9	100.6	100.7	100.7	99.8	99.9	100.0	100.1	101.1
Minor Roads	100.0	100.4	100.6	100.8	101.0	101.2	101.3	101.5	101.7	101.9	102.1
All Roads ¹⁰	100.0	100.3	100.5	100.8	101.0	101.1	101.3	101.5	101.6	101.8	102.3
Road Traffic											
Motorways	100.0	99.3	97.3	98.3	106.8	108.7	111.0	111.9	117.1	120.5	127.5
A roads	100.0	100.9	99.4	99.4	98.1	98.5	99.5	101.2	104.0	105.5	104.1
All roads (incl. B, C, uncl.)	100.0	99.4	97.8	97.6	97.9	98.6	100.8	102.0	104.5	107.9	108.2
Reported Road Accident Casualties											
Killed	100.0	80.0	77.0	68.5	65.2	63.7	75.2	62.2	70.7	53.7	59.6
Killed and Serious	100.0	88.0	76.5	72.5	75.8	64.6	66.9	62.2	66.4	61.1	61.3
All (Killed, Serious, Slight)	100.0	96.5	85.5	82.0	81.5	73.7	72.5	70.4	69.9	60.5	53.9
Passenger Rail ^{2,6}											
ScotRail passenger journeys ⁶	100.0	100.7	102.4	106.1	108.9	113.0	121.3	122.0	123.3	127.9	127.9
Rail journeys in/from Scotland ⁷	100.0	100.3	104.2	109.3	112.5	113.7	120.3	122.5	123.5	127.4	..
Passenger receipts (£2014 mill)	100.0	109.9	113.9	116.7	121.2	124.8	131.3	136.1	137.6	156.3	..
Air Transport											
Terminal Passengers	100.0	92.4	85.9	90.6	91.2	95.5	98.9	104.8	110.6	118.4	120.9
Transport Movements	100.0	91.8	85.0	87.8	89.2	90.2	90.2	90.2	0.1	0.1	0.1
Freight	100.0	101.3	94.6	89.9	103.9	108.0	119.2	112.4	111.3	120.0	124.1
Ferries ⁸											
Passengers	100.0	102.0	99.8	96.2	96.9	96.5	96.7	95.4	100.6	102.4	102.7
Vehicles	100.0	102.6	100.5	100.5	100.7	97.3	100.6	102.9	110.3	113.4	113.1
of which on routes within Scotland											
Passengers	100.0	103.4	100.2	97.2	98.6	97.9	98.5	97.8	104.0	106.3	106.6
Vehicles	100.0	103.1	99.4	99.3	102.3	100.3	102.2	105.3	114.1	119.1	118.5

¹ DfT has revised the figures for the light goods and goods body types back to 2001. DfT does not have the underlying data to revise earlier years' figures.

² Financial years

³ The DfT have revised figures from 2004/05 onwards as a result of methodological improvements. Figures prior to this period are not directly comparable.

See Chapter 2 of Scottish Transport Statistics for more detail. Figures from 2006 include Government support for buses which is not available for the two previous years.

⁴ Freight lifted in Scotland by UK-registered hauliers, regardless of whether the destination is in Scotland, elsewhere in the UK or outwith the UK.

The figures for 2004 onwards are not compatible with those for earlier years due to changes in methodology and processing system for the survey.

⁵ The estimated amounts of crude oil and products carried by pipelines over 50km in length. 2012 figures are provisional.

⁶ ScotRail introduced a new methodology which better estimates Strathclyde Zonecard journeys from 2009/10. Figures from 2003/04 onwards present the impact of this on previously reported data to provide a more meaningful year on year comparison. Note that this has no impact on actual journeys undertaken.

⁷ The Office of Rail and Road (ORR) produce total passenger figures. These are not adjusted to reflect ScotRail's revised methodology and are therefore not comparable with ScotRail figures.

⁸ Services to Europe, Northern Ireland and within Scotland (Previous versions of STS only included services where data is available back to 1975, this can still be found in Table H1).

⁹ Domestic freight estimates for 2006 to 2009 were revised on 27 October 2011.

¹⁰ Totals have been revised in 2012 to include slip roads on Trunk A roads which had previously excluded.

See Road Network chapter for more information.

Table S3 Summary of Scottish Household Survey results¹

SUMMARY

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	<i>column percentages</i>										
Modal share of all journeys³											
Walking	22.2	21.8	22.0	22.1	26.0	23.3	25.0	21.6	23.5	21.3	19.8
Driver car/van	49.8	51.0	51.1	49.9	48.3	50.0	48.1	49.7	50.6	52.1	52.9
Passenger car/van	13.8	13.3	14.3	13.1	12.7	13.6	13.0	13.3	13.1	12.5	12.8
Bicycle	1.0	0.9	0.8	1.3	1.2	1.0	1.4	1.2	1.2	1.5	1.4
Bus	9.1	8.6	8.7	9.1	8.1	8.5	8.6	9.5	7.7	8.2	8.0
Taxi/minicab	1.5	1.4	0.8	1.3	1.3	1.6	1.2	1.3	0.9	1.3	1.4
Rail	1.6	1.9	1.4	2.0	1.8	1.7	2.1	1.7	2.2	2.6	2.6
Other	1.0	1.0	1.0	1.2	0.7	0.3	0.6	0.6	0.7	0.5	1.0
Sample size (=100%)	20,450	18,680	16,300	17,590	19,740	20,180	19,930	18,710	19,050	18,320	17,790
Place of work											
Works from home	10.0	11.4	10.1	10.6	13.2	13.3	13.1	14.1	14.5	14.2	16
Does not work from home	90.0	88.6	89.9	89.4	86.8	86.7	86.9	85.9	85.5	85.8	84
Sample size (=100%)	6,090	6,100	5,860	6,190	4,730	4,850	4,810	4,670	4,720	4,820	4,720
Travel to work²											
Walking	12.5	12.3	13.4	12.9	13.6	12.9	12.9	13.6	12.3	12.0	11.8
Car or Van	66.0	67.0	67.3	66.6	67.3	66.2	67.7	65.9	67.0	67.7	67.7
Driver	59.9	60.7	61.0	59.1	61.4	60.6	61.6	60.3	61.7	62.3	62.9
Passenger	6.1	6.4	6.3	7.5	6.0	5.6	6.0	5.6	5.3	5.4	4.8
Bicycle	2.3	2.4	2.3	2.0	2.0	2.5	2.6	2.2	2.6	3.0	2.8
Bus	12.1	12.1	10.8	12.0	10.1	11.3	10.2	11.2	10.4	9.8	10.1
Rail, including underground	4.3	3.9	3.6	3.9	4.3	4.0	4.2	4.4	5.2	5.1	5.5
Other	2.7	2.3	2.7	2.6	2.6	3.1	2.5	2.7	2.4	2.4	2.2
Sample size (=100%)	5,440	5,370	5,220	5,510	4,100	4,160	4,130	3,950	3,970	4,070	3,910
% Public and Active Travel⁴ (Former National Indicator 48)	31.2	30.7	30.1	30.8	30.1	30.7	29.8	31.4	30.6	30.1	30.3
% Journeys under 2 miles by walking	..	..	..	..	48.5	47.3	51.3	45.1	47.8	45.3	43
% Journeys under 5 miles by cycling	..	..	..	..	1.5	1.2	1.8	1.5	1.6	1.8	1.8
Travel to school											
Walking	48.8	50.0	49.7	50.6	51.4	51.7	51.2	48.8	51.8	51.5	52.3
Car or Van	23.6	24.4	23.0	23.4	24.1	24.4	24.5	25.8	25.6	25.5	24.2
Bicycle	1.5	1.0	1.4	1.4	0.8	1.2	1.7	1.2	1.4	0.9	1.9
Bus (school or service)	23.9	22.0	23.9	21.7	21.1	19.9	20.3	21.0	19.3	19.8	19.0
School bus	16.5	16.0	16.1	15.1	14.9	14.5	14.5	15.3	12.9	14.2	13.9
Service bus	7.3	5.9	7.8	6.6	6.2	5.4	5.8	5.7	6.4	5.6	5.1
Rail, including underground	0.7	0.7	0.3	0.7	0.4	0.6	0.7	1.1	0.5	0.5	0.7
Other	1.5	1.8	1.7	2.2	2.2	2.2	1.7	2.1	1.5	1.7	2
Sample size (=100%)	2,750	2,880	2,680	2,720	1,920	1,980	1,980	1,880	1,890	1,830	1,720
Household access to car⁴ /bike											
No car	30.2	30.7	30.3	30.1	31.0	30.2	30.8	30.0	29.3	28.1	28.6
One car	43.9	43.7	44.0	44.5	43.0	44.0	43.3	43.3	42.1	42.7	42.0
Two Cars	21.9	21.5	21.6	21.0	21.3	21.3	21.1	21.7	23.0	23.4	23.7
Three or more cars	4.0	4.2	4.1	4.4	4.7	4.6	4.7	5.1	5.6	5.8	5.7
One or more cars	69.8	69.3	69.7	69.9	69.0	69.8	69.2	70.1	70.7	71.9	71.4
Two or more cars	25.8	25.6	25.7	25.4	26.0	25.8	25.9	26.8	28.5	29.2	29.4
1+ Bicycles which can be used by adults	36.8	35.5	34.3	35.1	35.0	34.3	34.4	35.1	33.8	34.4	34.7
Sample size	13,820	14,190	14,210	14,360	10,640	10,650	10,630	10,330	10,470	10,680	10,530
Driving (aged 17+)											
Those with a full driving licence											
Male	76.0	76.2	75.6	75.6	75.6	76	75.8	73.4	75.4	75.2	75.6
Female	59.9	60.6	60.2	59.8	61.6	61.4	61.8	63.1	63.1	64.3	64.0
Identified in another way	..	..	..	..	..	..	..	..	..	..	*
Refused	..	..	..	..	..	..	..	..	..	..	*
All	67.6	68.0	67.6	67.3	68.3	68.4	68.5	68.0	69.0	70	70
Frequency of driving											
Every day	44.9	43.4	41.4	40.7	42.0	41.9	40.9	40.9	42.2	41.9	41.4
At least three times a week	10.4	11.9	12.8	13.3	13.1	13.3	13.9	14.5	14.3	14.7	15.3
Once or twice a week	5.6	5.6	6.0	6.2	6.0	5.6	5.9	5.9	6.0	6.1	6.0
At least 2-3 times a month	1.0	0.9	0.9	0.9	0.8	1.0	0.9	0.8	1.0	1.0	1.0
At least once a month	0.4	0.4	0.4	0.4	0.3	0.5	0.7	0.5	0.5	0.5	0.4
Less than once a month	1.3	1.6	1.8	1.7	1.7	1.6	1.8	1.4	1.6	1.3	1.3
Holds full licence, never drives	4.0	4.2	4.3	4.1	4.5	4.5	4.3	4.0	3.4	4.0	4.2
Does not have a full driving licence	32.4	32.0	32.4	32.7	31.7	31.6	31.5	32.0	31.0	30.5	30.5
Sample size (=100%)	12,260	12,450	12,360	12,800	9,830	9,840	9,720	9,340	9,570	9,760	9,650
Percentage of car/van stages delayed by traffic congestion											
Former National Indicator^{5,6}	13.1	11.0	10.5	11.2	9.9	9.69	11.7	12.47	11.7	12.8	13
Sample size (=100%)	9,320	8,680	7,580	8,310	9,830	10,200	9,820	9,315	9,790	9,960	9,390
Frequency of use of local bus/train service (aged 16+)											
Bus service											
Every day or almost every day	12.6	11.3	11.0	11.1	9.3	11.3	9.7	11.7	9.3	9.7	9.6
2 or 3 times per week	12.2	11.8	11.7	12.5	11.0	11.4	11.3	11.6	10.6	10.6	10.3
About once a week	7.8	8.4	7.7	7.8	7.8	7.8	7.6	8.1	7.7	7.9	7.2
Once or twice a month	13.9	14.1	13.5	14.2	13.7	14.1	13.6	14.3	13.2	14.7	15.1
Not used in the past month	53.6	54.5	56.1	54.3	58.2	55.4	57.7	54.2	59.2	57.1	57.8
Train service											
Every day or almost every day	2.3	2.1	1.9	2.0	2.5	2.2	2.2	2.1	2.3	2.6	2.6
2 or 3 times per week	2.0	2.1	1.9	2.2	2.4	2.5	2.1	2.5	2.1	2.2	2.6
About once a week	3.2	3.7	3.5	3.7	4.2	4.0	5.0	4.4	4.2	4.3	4.7
Once or twice a month	16.4	15.9	17.3	17.9	19.1	19.5	21.2	20.7	20.8	21.9	20.6
Not used in the past month	76.1	76.2	75.5	74.2	71.8	71.8	69.5	70.2	70.5	69.0	69.5
Sample size (=100%)	12,300	12,520	12,420	12,890	9,890	9,920	9,800	9,410	9,640	9,810	9,700

1. The apparent year-to-year fluctuations in some of the figures may be due to sampling variability.

2. Employed adults (aged 16+) not working from home

3. The Travel diary methodology changed in 2007 and in 2012, creating a break in the time series.

4. Tram journeys were not included in previous publications. They have now been added, and the 2016 figure is 0.1% higher than previous published.

5. From 2012 Q4 the question was changed to ask about access to cars/vans instead of just cars.

6. Data published in 2015 erroneously included a value of 12.5 because of the exclusion of vans; this table contains the revised data.

Table S4 Summary of cross-border transport

SUMMARY

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Passenger journeys <i>millions</i>											
to/from other parts of UK											
Rail	6.13	6.64	7.33	7.59	7.74	7.98	8.67	8.41	9.05	9.62	..
Air ¹	12.07	10.89	9.83	10.12	10.05	10.30	10.57	11.15	11.25	11.39	11.47
Ferry ²	1.94	1.92	1.92	1.86	1.81	1.83	1.79	1.73	1.75	1.75	1.75
Total these modes	20.13	19.45	19.08	19.57	19.60	20.11	21.03	21.28	22.05	22.76	..
to/from other countries											
Air ³	10.35	9.74	9.27	10.06	10.21	10.86	11.25	12.19	13.84	15.51	16.04
Ferry ⁴	0.08	0.03	0.05	0.001	0.001	0.001	0.001	0.000	0.001	0.000	0.000
Total these modes	10.43	9.77	9.32	10.06	10.21	10.86	11.25	12.19	13.84	15.51	16.04
Total cross-border passengers											
Rail	6.13	6.64	7.33	7.59	7.74	7.98	8.67	8.41	9.05	9.62	..
Air	22.42	20.63	19.10	20.18	20.26	21.16	21.81	23.34	25.09	26.90	27.51
Ferry	2.01	1.95	1.97	1.86	1.81	1.83	1.79	1.73	1.75	1.75	1.75
Total these modes	30.56	29.22	28.41	29.63	29.82	30.97	32.27	33.47	35.89	38.27	..
Freight											
to other parts of UK											
Road ⁵	12.3	12.6	14.8	13.5	13.5	13.0	13.5	16.7	16.2	14.8	17.0
Rail	3.8	3.3	3.1	4.5	2.9	..	..	..	..	..	..
Water	21.0	17.6	16.6	16.6	8.8	10.7	10.7	..	..	..	..
Total these modes	37.1	33.4	34.5	34.6	25.2	..	..	..	..	..	..
from other parts of UK											
Road ⁵	17.7	16.0	17.9	17.5	19.6	16.2	18.2	20.3	19.3	19.0	19.8
Rail	2.0	1.3	1.6	3.3	1.7	..	..	..	..	..	..
Water	5.1	4.9	5.5	4.9	2.1	4.8	5.3	..	..	..	..
Total these modes	24.8	22.1	25.0	25.8	23.3	..	..	..	..	..	..
Total to/from other parts of UK											
Road ⁵	30.0	28.6	32.7	31.0	33.1	29.2	31.7	37.0	35.5	33.8	36.8
Rail	5.9	4.5	4.7	7.8	4.6	..	..	..	..	..	..
Water	26.1	22.4	22.1	21.6	10.8	15.5	16.0	..	..	..	..
Total these modes	61.9	55.6	59.5	60.4	48.5	..	..	..	..	..	..
to other countries											
Road ⁵	0.5	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
Rail ⁶	0.4	0.4	0.4	0.4	0.4	..	..	..	..	..	..
Water ⁷	42.4	38.3	39.9	33.4	32.1	31.6	30.8	30.3	33.0	30.9	33.3
Total these modes	43.3	39.2	40.7	34.0	32.8	..	..	..	..	..	..
from other countries											
Road ⁵	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Rail ⁸	0.5	0.4	0.4	0.4	0.4	..	..	..	..	..	..
Water ⁷	16.1	13.5	13.2	14.2	16.3	16.5	16.6	13.5	9.5	10.6	11.5
Total these modes	16.9	14.2	13.8	14.7	16.8	..	..	..	..	..	..
Total to/from other countries											
Road ⁵	0.8	0.7	0.6	0.4	0.4	0.4	0.3	0.4	0.3	0.3	0.3
Rail	0.9	0.8	0.8	0.8	0.8	..	..	..	..	..	..
Water	58.5	51.9	53.1	47.6	48.3	48.1	47.4	43.7	42.5	41.5	44.8
Total	60.2	53.3	54.4	48.8	49.5	..	..	..	..	..	..
Total cross-border freight											
Road ⁵	30.8	29.3	33.3	31.4	33.5	29.6	32.0	37.4	35.8	34.1	37.1
Rail	6.7	5.3	5.5	8.6	5.4	..	..	..	..	..	..
Water	84.6	74.3	75.2	69.2	59.1	63.6	63.4	..	..	..	..
Total these modes	122.1	108.9	114.0	109.1	98.0	..	..	..	..	..	..

1 England, Wales or Northern Ireland - for the purposes of this table, UK offshore is not counted as another part of the UK.

2 Scotland / Northern Ireland ferries

3 Figures for 1999 and earlier years are available on the website. They are approximate as they include an element of estimation.

4 The Rosyth/Zeebrugge service started in May 2002, there was a drop in the frequency of service from November 2005 and the passenger service ceased in December 2010.

Figures for services between Lerwick and other countries are available from 1998.

5 Freight lifted by UK HGVs only - does not include freight carried by other HGVs or by other types of vehicle (such as light goods vehicles)

The figures for 2004 onwards are not directly comparable with earlier years, due to changes to the survey's methodology & processing.

6 The Rail figures for 'outwith UK' include freight taken to Scottish, English or Welsh ports for export.

7 Figures relate only to exports/imports from major ports only. Note these have increased over the years.

8 The Rail figures for 'outwith UK' include freight imported at an English or Welsh port, then brought into Scotland by rail.

Table SGB1 Comparisons of Scotland and Great Britain (or the UK) - numbers
Numbers

SUMMARY

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Vehicles Licensed (all vehicles)											<i>thousand</i>
Scotland	2,665	2,684	2,685	2,691	2,717	2,759	2,821	2,863	2,919	2,962	2,991
GB	33,883	33,958	34,120	34,229	34,522	35,034	35,633	36,467	37,257	37,735	38,184
Households with a Car ¹ (National Travel Survey)											<i>percent</i>
Scotland	..	70	..	70	..	..	..	..	..	..	..
GB	..	75	..	72	..	..	..	..	..	..	..
Public Road Lengths (all roads)											<i>thousand kilometres</i>
Scotland	55.3	55.5	55.6	55.8	55.9	56.0	56.1	56.2	56.2	56.4	56.6
GB ²	394.5	394.4	394.3	394.3	394.9	395.5	395.6	395.7	396.7	397.0	397.0
Road Traffic											<i>billion vehicle kilometres</i>
Motorway											
Scotland	6.68	6.63	6.50	6.57	7.14	7.26	7.42	7.48	7.83	8.05	8.52
GB	100.1	99.5	98.2	99.5	100.4	101.9	104.3	107.0	108.9	110.5	111.1
A roads											
Scotland	22.1	22.3	22.0	22.0	21.7	21.8	22.0	22.4	23.0	23.4	23.0
GB ³	222.8	222.4	219.5	220.4	218.5	218.6	222.9	226.9	233.1	235.7	239.1
All roads (incl. B, C, unclassified)											
Scotland	44.5	44.2	43.5	43.4	43.5	43.8	44.8	45.4	46.5	48.0	48.1
GB ³	500.6	495.8	487.9	488.9	487.1	488.8	501.5	509.7	519.7	526.4	528.0
Reported Road Accident Casualties: Killed or Seriously Injured											<i>thousand</i>
Scotland ¹²	2.85	2.50	2.18	2.06	2.16	1.84	1.90	1.77	1.89	1.74	1.74
GB	28.6	26.9	24.5	25.0	24.8	23.4	24.6	23.9	25.9	26.6	27.3
Local bus passenger journeys ^{2,4}											<i>million</i>
Scotland	484	458	430	436	420	421	414	407	393	388	380
GB	5,250	5,188	5,164	5,191	5,099	5,201	5,142	5,016	4,930	4,836	4,800
Rail passenger journeys ^{4,5,6}											<i>million</i>
Scotland	76.3	76.5	79.4	83.3	85.8	86.7	91.7	93.4	94.2	97.1	..
GB ^{10,11}	1,074	1,065	1,160	1,228	1,269	1,333	1,393	1,464	1,470	1,475	..
Air terminal passengers											
Scotland	24.3	22.5	20.9	22.1	22.2	23.3	24.1	25.5	26.9	28.8	29.4
UK	235.4	218.1	210.7	219.3	220.6	228.4	238.4	251.5	268.4	284.6	292.2
Freight Lifted											<i>million tonnes</i>
Road ^{8,9}											
Scotland	157	132	132	135	137	125	123	133	140	123	129
UK	1,668	1,356	1,489	1,457	1,427	1,316	1,322	1,445	1,434	1,397	1,406
Rail ⁴											
Scotland	10.36	9.69	8.33	9.87	8.43	..	..	..	..	..	..
GB	103	87	90	102	113	117	111	86	79	75	75
Coastwise traffic											
Scotland	23.3	19.8	18.0	16.3	12.5	11.4	11.8	14.2	..	..	..
UK	58.1	54.6	50.5	49.3	42.8	37.9	39.5	42.6	39.7	34.6	..
Pipelines ⁷											
Scotland	27.6	27.6	27.6	27.8	28.2	..	..	..	..	..	..
GB	53.3	53.6	53.5	53.7	54.3	..	..	..	..	..	..
Travel to Work (Autumn: Labour Force Survey)											<i>percent</i>
Car (or van, minibus, works van)											
Scotland	69	70	71	68	68	69	69	70	71	70	70
GB	70	70	70	68	69	68	69	68	68	68	68
Public transport (bus, rail, underground)											
Scotland	17	15	14	16	15	16	15	15	14	14	14
GB	15	15	15	16	16	16	16	17	17	18	17

1 Figures are for combined years e.g. 2011 covers 2011/12.

2 DfT revised its methodology from 2004, causing a break in the series.

3 The GB figures relate to motor vehicle traffic only, and therefore exclude a small amount of pedal cycle traffic.

4 Financial years

5 Total passenger figures are produced by the ORR and have not been adjusted to reflect ScotRail's revised zone card methodology.

6 Figures are based on the origin and destination of trips and do not count stages of these trips separately.

7 The estimated amounts of crude oil and products carried by pipelines over 50km in length. 2012 figures are provisional.

8 These figures are for freight lifted by Heavy Goods Vehicles. The GB figures are for freight transported within GB; the Scottish figures include small amounts of freight destined for Northern Ireland and outside the UK.

9 Domestic freight estimates for 2006 to 2009 were revised on 27 October 2011.

10 Figs for 2008-09 onwards have been revised due to an error in the LENNON calculation of journeys between Edinburgh and Glasgow.

11 Figures are based on the origin and destination of trips and do not count stages of these trips separately

SUMMARY

Table SGB2 Comparisons of Scotland and Great Britain (or UK) - index numbers

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Vehicles Licensed (all vehicles)	<i>Index 2008=100</i>										
Scotland	100.0	100.7	100.7	101.0	101.9	103.5	105.9	107.4	109.5	111.1	112.2
GB	100.0	100.2	100.7	101.0	101.9	103.4	105.2	107.6	110.0	111.4	112.7
Public Road Lengths (all roads)											
Scotland	100.0	100.3	100.5	100.8	101.0	101.1	101.3	101.5	101.6	101.8	102.3
GB ¹	100.0	100.0	99.9	99.9	100.1	100.2	100.3	100.3	100.6	100.6	100.6
Road Traffic											
Motorway											
Scotland	100.0	99.3	97.3	98.3	106.8	108.7	111.0	111.9	117.1	120.5	127.5
GB	100.0	99.4	98.1	99.4	100.3	101.8	104.2	106.9	108.8	110.4	111.0
A roads											
Scotland	100.0	100.9	99.4	99.4	98.1	98.5	99.5	101.2	104.0	105.5	104.1
GB ²	100.0	99.8	98.5	98.9	98.1	98.1	100.0	101.8	104.6	105.8	107.3
All roads (incl. B, C, unclassified)											
Scotland	100.0	99.4	97.8	97.6	97.9	98.6	100.8	102.0	104.5	107.9	108.2
GB ²	100.0	99.0	97.5	97.7	97.3	97.6	100.2	101.8	103.8	105.2	105.5
Reported Road Accident Casualties: Killed or Seriously Injured											
Scotland	100.0	88.0	76.5	72.5	75.8	64.6	66.9	62.2	66.4	61.1	61.3
GB	100.0	94.2	85.8	87.6	86.8	81.8	86.0	83.6	90.6	93.1	95.5
Local bus passenger journeys ^{2,4}											
Scotland	100.0	94.7	89.0	90.1	86.9	87.1	85.7	84.1	81.3	80.3	78.5
GB	100.0	98.8	98.4	98.9	97.1	99.1	98.0	95.5	93.9	92.1	91.4
Rail passenger journeys ^{4,5,6}											
Scotland	100.0	100.3	104.2	109.3	112.5	113.7	120.3	122.5	123.5	127.4	..
GB	100.0	99.2	108.0	114.3	118.1	124.1	129.6	136.3	136.8	137.3	..
Air terminal passengers											
Scotland	100.0	92.4	85.9	90.6	91.2	95.5	98.9	104.8	110.6	118.4	120.9
UK	100.0	92.7	89.5	93.2	93.7	97.0	101.3	106.8	114.0	120.9	124.1
Freight Lifted											
Road ^{6,8}											
Scotland	100.0	84.0	84.0	85.9	87.4	79.6	78.3	84.5	89.1	78.1	81.9
UK	100.0	81.3	89.3	87.3	85.5	78.9	79.2	86.6	85.9	83.7	84.3
Rail ³											
Scotland	100.0	93.5	80.4	95.3	81.4	..	..	..	..	..	..
GB	100.0	84.9	87.5	99.0	110.1	113.5	107.6	83.8	77.3	73.0	73.4
Coastwise traffic											
Scotland	100.0	85.2	77.1	70.1	53.9	48.9	50.7	61.0	..	..	..
UK	100.0	93.9	86.9	84.8	73.7	65.2	67.9	73.3	68.3	59.5	..
Pipelines ⁷											
Scotland	100.0	100.0	100.0	100.7	102.2	..	..	..	..	..	..
GB	100.0	100.6	100.4	100.8	101.9	..	..	..	..	..	..

1 Figures are for combined years e.g. 2011 covers 2011/12.

2 DfT revised its methodology from 2004, causing a break in the series

3 The GB figures relate to motor vehicle traffic only, and therefore exclude a small amount of pedal cycle traffic.

4 Financial years

5 Total passenger figures are produced by the ORR and have not been adjusted to reflect ScotRail's revised zone card methodology

6 Figures are based on the origin and destination of trips and do not count stages of these trips separately.

7 The estimated amounts of crude oil and products carried by pipelines over 50km in length. 2012 figures are provisional.

8 These figures are for freight lifted by Heavy Goods Vehicles. The GB figures are for freight transported within GB; the Scottish figures include small amounts of freight destined for Northern Ireland and outside the UK.

9 Domestic freight estimates for 2006 to 2009 were revised on 27 October 2011. Later years have yet to be published by DfT.

10 Figures for 2008-09 onwards have been revised due to an error in the LENNON calculation of journeys between Edinburgh and

Table SGB3 Comparisons of Scotland and Great Britain (or UK) - relative to the population

SUMMARY

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Vehicles Licensed (all vehicles)											
										<i>per 100 population</i>	
Scotland	51	51	51	51	51	52	53	53	54	55	55
GB	56	56	56	56	56	56	57	58	58	59	59
Public Road Lengths (all roads)											
										<i>kilometres per 1,000 population</i>	
Scotland	10.6	10.6	10.6	10.5	10.5	10.5	10.5	10.5	10.4	10.4	10.4
GB	6.6	6.5	6.5	6.4	6.4	6.4	6.3	6.3	6.2	6.2	6.2
Road Traffic											
										<i>vehicle kilometres per head</i>	
Motorway											
Scotland	1,284	1,268	1,236	1,240	1,344	1,363	1,388	1,392	1,449	1,485	1,566
GB	1,667	1,646	1,611	1,619	1,622	1,636	1,662	1,691	1,707	1,722	1,721
A Roads											
Scotland	4,253	4,267	4,179	4,150	4,086	4,089	4,119	4,168	4,259	4,305	4,234
GB ¹	3,711	3,678	3,601	3,585	3,531	3,510	3,552	3,587	3,654	3,673	3,704
All roads (incl. B, C and unclassified)											
Scotland	8,547	8,452	8,264	8,187	8,196	8,229	8,385	8,445	8,596	8,846	8,852
GB ¹	8,337	8,199	8,004	7,953	7,872	7,849	7,991	8,057	8,148	8,203	8,179
Reported Road Accident Casualties: Killed or Seriously Injured											
										<i>per 1,000 population</i>	
Scotland	0.55	0.48	0.41	0.39	0.41	0.35	0.36	0.33	0.35	0.32	0.32
GB	0.48	0.45	0.40	0.41	0.40	0.38	0.39	0.38	0.41	0.41	0.42
Local bus passenger journeys ^{2,4}											
										<i>per head</i>	
Scotland	93	88	82	82	79	79	77	76	73	72	70
GB	87	86	85	84	82	84	82	79	77	75	74
Rail passenger journeys ^{4,5,6}											
										<i>per head</i>	
Scotland	14.7	14.6	15.1	15.7	16.1	16.3	17.1	17.4	17.4	17.9	..
GB	17.9	17.6	19.0	20.0	20.5	21.4	22.2	23.1	23.0	23.0	..
Air terminal passengers											
										<i>per head</i>	
Scotland	4.7	4.3	4.0	4.2	4.2	4.4	4.5	4.7	5.0	5.3	5.4
UK	3.8	3.5	3.4	3.5	3.5	3.6	3.7	3.9	4.1	4.3	4.4
Freight Lifted											
										<i>tonnes per head</i>	
Road											
Scotland	30.2	25.2	25.1	25.4	25.8	23.5	23.0	24.7	25.9	22.6	23.6
UK	27.0	21.8	23.7	23.0	22.4	20.5	20.5	22.2	21.8	21.1	21.2
Rail ³											
Scotland	2.0	1.9	1.6	1.9	1.6	..	..	..	..	..	..
GB	1.7	1.4	1.5	1.7	1.8	1.9	1.8	1.4	1.2	1.2	1.2
Coastwise traffic											
Scotland	4.5	3.8	3.4	3.1	2.4	2.1	2.2	2.6	..	..	..
UK	1.0	0.9	0.8	0.8	0.7	0.6	0.6	0.7	0.6	0.5	0.0
Pipelines ⁵											
Scotland	5.3	5.3	5.2	5.2	5.3	..	..	..	..	..	..
GB	0.9	0.9	0.9	0.9	0.9	..	..	..	..	..	..

1 Figures are for combined years e.g. 2011 covers 2011/12.

2 DfT revised its methodology from 2004, causing a break in the series.

3 The GB figures relate to motor vehicle traffic only, and therefore exclude a small amount of pedal cycle traffic.

4 Financial years

5 Total passenger figures are produced by the ORR and have not been adjusted to reflect ScotRail's revised zonecard methodology.

6 Figures are based on the origin and destination of trips and do not count stages of these trips separately.

7 The estimated amounts of crude oil and products carried by pipelines over 50km in length. 2012 figures are provisional.

8 These figures are for freight lifted by Heavy Goods Vehicles. The GB figures are for freight transported within GB; the Scottish figures include small amounts of freight destined for Northern Ireland and outside the UK.

9 Domestic freight estimates for 2006 to 2009 were revised on 27 October 2011. Later years have yet to be published by DfT.

10 Figures for 2008-09 onwards have been revised due to an error in the LENNON calculation of journeys between Edinburgh and Glasgow.

Table H1 Summary of passenger traffic

SUMMARY

Year ¹	Car vehicle kilometres on major roads (M and A)	Bus passenger journeys on local services ²	Rail passenger journeys originating in Scotland ³	Air terminal passengers at airports	Ferry passengers on routes within Scotland and to NI and Europe ⁵	Ferry passengers on selected ferry services ⁴	Car	Bus	Rail	Air	Ferry Selected services ⁴
						<i>million</i>				<i>Index, 1985 = 100</i>	
1960	..	1,664	64.9	1.20	..	..	..	248	114	17	..
1961	..	1,633	63.4	1.41	..	..	..	243	111	20	..
1962	..	1,579	72.3	1.59	..	..	..	235	127	23	..
1963	..	1,561	71.7	1.82	..	..	..	233	126	26	..
1964	..	1,506	73.0	2.07	..	..	..	224	128	30	..
1965	..	1,417	71.0	2.29	..	..	..	211	124	33	..
1966	..	1,344	65.8	2.56	..	..	..	200	115	37	..
1967	..	1,297	65.9	2.76	..	..	..	193	115	40	..
1968	..	1,220	67.0	2.69	..	..	..	182	117	39	..
1969	..	1,169	68.4	2.91	..	..	..	174	120	42	..
1970	..	1,057	70.7	3.10	..	..	..	157	124	45	..
1971	..	1,019	66.5	3.20	..	..	..	152	116	46	..
1972	..	998	61.2	3.64	..	..	..	149	107	52	..
1973	..	975	60.5	4.07	..	4.82	..	145	106	59	103
1974	..	896	69.1	4.00	..	4.96	..	134	121	58	106
1975	9,318	891	66.2	4.18	..	5.28	68	133	116	60	113
1976	9,438	881	60.1	4.78	..	5.17	69	131	105	69	111
1977	9,622	824	56.8	4.85	..	4.82	71	123	99	70	103
1978	9,749	794	59.7	5.90	..	4.64	72	118	105	85	99
1979	9,643	786	57.6	6.33	..	4.56	71	117	101	91	98
1980	10,262	763	61.5	6.37	..	4.48	75	114	108	92	96
1981	10,418	716	57.8	6.50	..	4.27	77	107	101	94	91
1982	10,733	694	49.5	6.37	..	4.19	79	103	87	92	90
1983	11,043	680	55.7	6.48	..	4.51	81	101	98	93	97
1984	12,794	669	51.3	6.99	..	4.67	94	100	90	101	100
1985	13,606	671	57.1	6.94	..	4.67	100	100	100	100	100
1986	14,012	644	53.1	7.24	..	4.85	103	96	93	104	104
1987	14,881	647	54.1	7.81	..	5.35	109	96	95	112	115
1988	15,946	647	54.0	8.51	..	5.66	117	96	95	123	121
1989	17,027	613	51.8	9.23	..	6.18	125	91	91	133	132
1990	17,476	585	52.8	9.86	..	6.54	128	87	92	142	140
1991	17,553	571	54.5	9.57	..	6.80	129	85	95	138	146
1992	18,068	532	59.3	10.38	9.16	6.63	133	79	104	150	142
1993	18,211	525	59.1	11.12	9.53	6.63	134	78	104	160	142
1994	18,683	513	54.4	11.79	9.64	6.65	137	76	95	170	142
1995	19,226	506	48.9	12.31	10.49	6.86	141	75	86	177	147
1996	19,888	478	49.8	13.21	9.33	5.59	146	71	87	190	120
1997	20,266	448	53.1	14.39	9.92	5.63	149	67	93	207	121
1998	20,456	424	55.1	15.19	9.64	5.33	150	63	96	219	114
1999	20,700	455	57.6	15.94	9.96	5.33	152	68	101	230	114
2000	20,566	458	57.3	16.79	9.80	5.29	151	68	100	242	113
2001	20,977	466	53.0	18.08	9.79	5.30	154	69	93	260	114
2002	21,760	471	52.4	19.78	9.97	5.33	160	70	92	285	114
2003	21,922	478	55.9	21.08	10.67	5.71	161	71	98	304	122
2004	22,308	459	61.3	22.55	10.84	5.92	164	68	107	325	127
2005	22,060	465	66.7	23.80	10.57	5.97	162	69	117	343	128
2006	22,610	476	69.8	24.44	10.59	5.40	166	71	122	352	116
2007	22,392	487	72.7	25.13	10.72	5.40	165	73	127	362	116
2008	22,221	484	76.3	24.35	10.01	5.15	163	72	134	351	110
2009	22,496	458	76.5	22.50	10.22	5.40	165	68	134	324	116
2010	21,998	430	79.4	20.91	9.99	5.37	162	64	139	301	115
2011	21,986	436	83.3	22.07	9.63	5.22	162	65	146	318	112
2012	22,170	420	85.8	22.21	9.70	5.15	163	63	150	320	110
2013	22,217	421	86.7	23.25	9.66	..	163	63	152	335	..
2014	22,418	414	91.7	24.08	9.68	..	165	62	..	347	..
2015	22,573	407	93.4	25.51	9.54	..	166	61	..	367	..
2016	23,220	393	94.2	26.92	10.07	..	171	59	..	388	..
2017	23,453	388	97.1	28.83	10.25	..	172	58	..	415	..
2018	23,470	380	..	29.44	10.28	..	172	57	..	424	..

1 The figures for Car and Air are for calendar years; latterly, the figures for Bus and Rail are for the financial years which start in the specified calendar years (eg the 1996 figures are for 1996-97)

2 Pre-1975, the figures are the totals of passenger journeys for the Scottish Bus Group and the four city corporations. Therefore, they include any non-stage (non-local) services run by these operators, and exclude other operators' stage (local) services. Glasgow Corporation's figures may have included passenger journeys on trolley buses and the Glasgow Underground. Figures from 2004 onwards have been subject to revision due to methodological improvements

3 Figures from 1995 onwards were revised by ORR in 2013 due to improvements to methodology. There is a series break between 2007-08 and 2008-09 due to a change in the methodology. From 2008-09 estimates of PTE travel (zone cards) are included. Figures in 2001-02 and 2002-03 were affected by industrial action.

4 This grouping was used in STS until 2012 and includes those routes for which figures are available back to 1973: Caledonian MacBrayne, P&O Scottish Ferries / NorthLink Orkney and Shetland Ferries, and Orkney Ferries. The figures from 1995 are affected by the reduction in traffic caused by the withdrawal of the Kyle-Kyleakin service when the Skye Bridge opened in October 1995.

5 All ferry routes within Scotland, between Scotland and Northern Ireland and between Scotland and Europe, for which passenger data is available (see chapter 9 for more detail)

Table H2 Summary of freight traffic¹

SUMMARY

(a) freight lifted - millions of tonnes

Year ²	Air	Road	Rail	Coastal ship- ping	Coast- wise ship- ping	Inland water- way	Pipeline ³	Total	Air	Road	Rail	Coastal ship- ping	Coast- wise ship- ping	Inland water- way	Pipeline ³	
	<i>lifted in Scotland</i>	<i>lifted in Scotland</i>	<i>lifted in Scotland</i>	<i>see notes</i>	<i>lifted in Scotland</i>	<i>lifted in Scotland</i>	<i>see notes</i>		<i>lifted in Scotland</i>	<i>lifted in Scotland</i>	<i>lifted in Scotland</i>	<i>see notes</i>	<i>lifted in Scotland</i>	<i>lifted in Scotland</i>	<i>see notes</i>	
	<i>millions of tonnes lifted</i>								<i>Index, 1985 = 100</i>							
1960	..	..	29.8	..	..	..	..	..	..	..	248	..	..	..	..
1961	..	..	28.1	..	..	..	..	..	..	..	234	..	..	..	..
1962	..	..	24.7	..	..	..	..	..	..	..	206	..	..	..	..
1963	..	..	24.6	..	..	..	..	..	..	..	205	..	..	..	..
1964	..	..	25.4	..	..	..	..	..	..	..	212	..	..	..	..
1965	..	..	24.3	..	..	..	..	..	..	..	203	..	..	..	..
1966	..	..	21.4	..	..	..	..	..	..	..	178	..	..	..	..
1967	..	..	20.0	..	..	..	..	..	..	..	167	..	..	..	..
1968	..	..	20.9	..	..	..	..	..	..	..	174	..	..	..	..
1969	..	..	21.1	..	..	..	..	..	..	..	176	..	..	..	..
1970	..	..	20.8	..	..	..	..	..	..	..	173	..	..	..	..
1971	..	..	20.0	..	..	..	..	..	..	..	167	..	..	..	..
1972	..	..	18.1	..	..	..	..	..	..	..	151	..	..	..	..
1973	..	..	19.3	5.7	..	..	8.0	..	..	..	161	17	..	..	27
1974	..	160.7	17.9	5.7	..	..	7.5	..	123	149	17	..	..	..	25
1975	..	164.6	16.1	4.9	..	..	6.3	..	126	134	14	..	..	..	21
1976	..	172.0	16.2	7.0	..	..	11.9	..	132	135	20	..	..	..	40
1977	..	144.7	14.0	13.6	..	..	23.2	..	111	117	40	..	..	..	78
1978	..	149.5	13.8	18.6	..	..	26.4	..	115	115	54	..	..	..	89
1979	..	156.9	12.0	23.8	..	..	27.9	..	120	100	69	..	..	..	94
1980	..	134.7	11.7	33.5	..	8.1	26.7	..	103	98	98	..	..	76	90
1981	..	144.1	12.2	33.2	..	7.3	24.1	..	110	102	97	..	..	69	81
1982	..	135.4	10.4	34.5	..	10.4	22.4	..	104	87	101	..	..	98	75
1983	..	129.1	10.3	37.3	..	12.1	26.5	..	99	86	109	..	..	114	89
1984	..	128.3	6.4	35.6	..	10.0	26.9	..	98	53	104	..	..	94	90
1985	..	130.5	12.0	34.3	..	10.7	29.8	..	100	100	100	..	..	100	100
1986	..	128.0	9.7	32.3	..	11.0	28.2	..	98	81	94	..	..	103	95
1987	..	134.9	10.5	28.6	24.1	10.3	28.5	236.9	103	88	83	..	..	97	96
1988	..	155.7	9.7	31.9	28.3	10.2	25.2	261.0	119	81	93	..	..	96	85
1989	..	154.8	9.4	32.5	28.3	10.4	21.3	256.7	119	78	95	..	..	97	71
1990	..	160.6	9.8	29.9	25.2	11.9	26.9	264.3	123	82	87	..	..	112	90
1991	..	148.8	9.0	31.6	26.7	11.3	21.4	248.8	114	75	92	..	..	106	72
1992	..	157.1	7.0	30.1	25.7	10.7	24.0	254.5	120	58	88	..	..	100	81
1993	..	158.9	5.0	29.0	24.5	11.4	26.9	255.7	122	42	85	..	..	107	90
1994	..	155.8	5.4	32.0	27.5	11.2	24.1	255.9	119	45	93	..	..	105	81
1995	..	157.7	..	35.9	31.9	11.2	25.6	262.3	121	..	105	..	..	105	86
1996	..	162.4	5.4	40.3	36.2	11.1	25.6	281.0	124	45	117	..	..	104	86
1997	..	157.4	7.0	39.4	34.5	11.6	25.7	275.7	121	59	115	..	..	109	86
1998	..	155.6	7.7	45.7	39.7	10.4	28.1	287.1	119	64	133	..	..	97	94
1999 ⁴	..	155.8	8.2	41.3	35.3	9.5	28.0	278.1	119	69	120	..	..	89	94
2000	0.08	158.5	8.3	30.9	24.7	12.2	28.1	262.8	121	69	90	..	..	115	94
2001	0.08	150.8	9.6	27.4	20.6	11.4	28.1	248.0	116	80	80	..	..	107	94
2002	0.08	154.4	9.1	24.5	19.2	10.0	28.0	245.4	118	76	71	..	..	94	94
2003 ⁵	0.08	153.4	8.3	24.4	19.5	10.1	27.7	243.5	118	69	71	..	..	94	93
2004	0.08	173.7	11.3	25.8	20.5	10.0	27.6	269.0	133	94	75	..	..	94	93
2005	0.08	165.6	14.3	31.4	25.5	10.2	27.6	274.7	127	119	92	..	..	96	93
2006 ⁶	0.08	170.0	13.0	25.7	20.6	10.2	27.8	267.3	130	108	75	..	..	95	93
2007 ⁶	0.07	176.8	11.4	27.5	22.8	10.5	27.5	276.5	136	95	80	..	..	99	92
2008 ⁶	0.05	157.0	10.4	28.3	23.3	12.2	27.6	258.9	120	86	83	..	..	114	93
2009 ⁶	0.05	131.9	9.7	24.7	19.8	10.1	27.6	223.9	101	81	72	..	..	95	93
2010	0.05	131.9	8.3	23.9	18.0	10.9	27.6	220.6	101	69	70	..	..	102	93
2011	0.05	134.8	9.9	22.6	16.3	10.7	27.8	222.2	103	82	66	..	..	100	93
2012	0.05	137.2	8.4	11.3	12.5	10.8	28.2	208.5	105	70	33	..	..	101	95
2013	0.05	125.0	..	16.6	11.4	10.7	..	..	96	..	48	..	..	100	..
2014	0.06	122.9	..	17.1	11.8	9.4	..	..	94	..	50	..	..	88	..
2015	0.06	132.7	..	..	14.2	10.3	..	..	102	..	..	..	..	96	..
2016	0.06	139.9	..	..	..	..	..	..	107	..	..	..	..	..	..
2017	0.06	122.6	..	..	..	..	..	..	94	..	..	..	..	..	..
2018	0.06	128.6	..	..	..	..	..	..	99	..	..	..	..	..	..

1. The figures for 'road', 'rail', 'coastwise shipping' and 'inland waterways' are the total amounts lifted in Scotland.

The category of 'coastal shipping' is shown for historical reasons. It is defined in a different way:

the 'coastal shipping' figure is the total lifted in Scotland plus
the total lifted elsewhere in the UK which is delivered in Scotland.

The 'pipeline' figure is the estimated amount of crude oil carried by on-shore pipelines which are over 50km in length.

This table does not show one port traffic to / from oil rigs and the sea bed.

2. The figures are all for calendar years except for the figures for 'rail' from 1985, which are for the financial years which start in the specified calendar years (e.g. the rail figures for 1997 are for 1997-98).

3. The estimated amounts of crude oil and products carried by pipelines over 50km in length. 2012 figures are provisional.

4. A new system for collecting port statistics was introduced in 2000. Data prior to that are on a different basis.

5. Changes to the methodology for collecting road freight data mean that previous figures are not comparable.

6. Domestic freight estimates for 2006 to 2009 were revised on 27 October 2011

Table H2 Summary of freight traffic¹

SUMMARY

(b) freight moved - millions of tonne-kilometres

Year ²	Road <i>lifted in Scotland</i>	Rail ⁷ <i>lifted in Scotland</i>	Coastwise shipping <i>lifted in Scotland</i>	Inland waterway <i>lifted in Scotland</i>	Pipeline ^{3,6} <i>see notes</i>
<i>millions of tonne-kilometres</i>					
1960	..	..	..	..	..
1961	..	..	..	..	..
1962	..	..	..	..	..
1963	..	..	..	..	..
1964	..	..	..	..	..
1965	..	..	..	..	..
1966	..	..	..	..	..
1967	..	..	..	..	..
1968	..	..	..	..	..
1969	..	..	..	..	..
1970	..	..	..	..	..
1971	..	..	..	..	..
1972	..	..	..	..	..
1973	..	..	..	..	..
1974	..	..	..	..	..
1975	..	..	..	..	..
1976	..	..	..	..	..
1977	..	..	..	..	..
1978	..	..	..	..	..
1979	..	..	..	..	..
1980	..	..	..	..	..
1981	..	..	..	..	..
1982	..	..	..	..	..
1983	..	..	..	..	..
1984	..	..	..	..	..
1985	9,706	..	..	..	..
1986	9,332	..	..	..	..
1987	10,225	..	19,810	262	..
1988	11,520	..	22,910	264	..
1989	12,339	..	23,020	268	..
1990	12,309	..	19,090	315	..
1991	11,909	..	22,850	298	..
1992	12,121	..	20,940	270	5,132
1993	12,426	..	19,710	290	..
1994	12,995	..	19,740	290	5,279
1995	13,965	..	25,110	300	5,693
1996	14,163	1,427	29,250	300	5,688
1997	14,236	2,145	26,280	310	5,717
1998	14,856	2,787	29,610	260	5,946
1999 ⁴	14,988	2,891	26,850	240	5,905
2000	14,817	2,462	20,100	280	5,933
2001	14,425	3,127	15,600	280	5,929
2002	14,170	2,856	14,540	240	5,909
2003 ⁵	14,432	2,625	14,850	240	5,832
2004	15,195	3,839	14,060	240	5,820
2005	13,507	4,345	17,457	251	5,869
2006	13,957	4,195	14,491	249	5,715
2007	14,950	3,601	16,909	268	5,726
2008	13,384	3,281	17,890	312	5,725
2009	11,652	2,912	15,321	244	5,725
2010	12,695	3,077	13,557	280	5,725
2011	12,813	2,637	13,011	270	5,752
2012	12,239	2,607	9,051	269	5,836
2013	11,906	..	7,452	262	..
2014	12,056	..	8,031	234	..
2015	13,634	..	11,414	236	..
2016	14,883	..	..	..	..
2017	13,130	..	..	..	..
2018	14,635	..	..	..	..

1. The figures for 'road', 'rail', 'coastwise shipping' and 'inland waterways' relate to freight lifted in Scotland; for 'pipeline' it is the estimated tonne-kilometres for crude oil carried by on-shore pipelines which are over 50km in length. This table does not show the tonne-kilometres for one port traffic to / from oil rigs and the sea bed or for coastal shipping (as defined in part [a] of this table).

2. The figures are all for calendar years except for the figures for rail which are for the financial years which start in the specified calendar years (e.g. the rail figures for 1997 are for 1997-98).

3. Over 50km

4. A new system for collecting port statistics was introduced in 2000. Data prior to that are on a different basis.

5. Changes to the methodology for collecting road freight data mean that previous figures are not comparable.

6. Pipeline figures for 2012 are provisional.

7. Revisions made to rail freight from 2001 onwards due to an error in the formula for calculating the figures

Table H3: Traffic estimates

SUMMARY

Year	million vehicle kilometres					index 1985=100				
	Motorways	A roads	All major roads (M & A)	Minor roads (B, C & unclassif.)	All roads	Motorways	A roads	All major roads (M & A)	Minor roads (B, C & unclassif.)	All roads
1962	..	..	..	..	..	..	..	..	..	..
1963	..	..	..	..	..	..	..	..	..	..
1964	..	..	..	..	..	..	..	..	..	..
1965	..	..	..	..	..	..	..	..	..	..
1966	..	..	..	..	..	..	..	..	..	..
1967	..	..	..	..	..	..	..	..	..	..
1968	..	..	..	..	..	..	..	..	..	..
1969	..	..	..	..	..	..	..	..	..	..
1970	..	..	..	..	..	..	..	..	..	..
1971	..	..	..	..	..	..	..	..	..	..
1972	..	..	..	..	..	..	..	..	..	..
1973	..	..	..	..	..	..	..	..	..	..
1974	..	..	..	..	..	..	..	..	..	..
1975	..	..	..	..	..	..	..	..	..	..
1976	..	..	..	..	..	..	..	..	..	..
1977	..	..	..	..	..	..	..	..	..	..
1978	..	..	..	..	..	..	..	..	..	..
1979	..	..	..	..	..	..	..	..	..	..
1980	..	..	..	..	..	..	..	..	..	..
1981	..	..	..	..	..	..	..	..	..	..
1982	..	..	..	..	..	..	..	..	..	..
1983	1,742	12,443	14,185	..	..	83	82	82	..	..
1984	1,920	14,382	16,302	..	..	91	95	95	..	..
1985	2,104	15,115	17,219	..	..	100	100	100	..	..
1986	2,116	15,531	17,647	..	..	101	103	102	..	..
1987	2,541	16,226	18,767	..	..	121	107	109	..	..
1988	2,961	17,137	20,098	..	..	141	113	117	..	..
1989	3,141	18,262	21,404	..	..	149	121	124	..	..
1990	3,286	18,501	21,786	..	..	156	122	127	..	..
1991	3,200	18,747	21,947	..	..	152	124	127	..	..
1992	3,516	19,060	22,575	..	..	167	126	131	..	..
1993	4,000	18,666	22,666	12,509	35,175	190	123	132	..	..
1994	4,147	19,153	23,300	12,700	36,000	197	127	135	..	..
1995	4,318	19,670	23,987	12,749	36,736	205	130	139	..	..
1996	4,586	20,253	24,839	12,938	37,777	218	134	144	..	..
1997	4,852	20,600	25,452	13,130	38,582	231	136	148	..	..
1998	5,072	20,812	25,885	13,284	39,169	241	138	150	..	..
1999	5,164	21,021	26,185	13,585	39,770	245	139	152	..	..
2000	5,405	20,531	25,936	13,625	39,561	257	136	151	..	..
2001	5,567	20,775	26,342	13,722	40,065	265	137	153	..	..
2002	5,730	21,533	27,262	14,272	41,535	272	142	158	..	..
2003	5,856	21,826	27,682	14,356	42,038	278	144	161	..	..
2004	6,094	22,114	28,209	14,496	42,705	290	146	164	..	..
2005	6,151	21,904	28,055	14,663	42,718	292	145	163	..	..
2006	6,433	22,465	28,898	15,221	44,119	306	149	168	..	..
2007	6,577	22,408	28,986	15,680	44,666	313	148	168	..	..
2008	6,683	22,126	28,810	15,659	44,470	318	146	167	..	..
2009	6,633	22,327	28,961	15,258	44,219	315	148	168	..	..
2010	6,503	21,992	28,496	14,992	43,488	309	145	165	..	..
2011	6,570	21,996	28,565	14,825	43,390	312	146	166	..	..
2012 ¹	7,140	21,712	28,853	14,696	43,549	339	144	168	..	..
2013	7,262	21,786	29,048	14,792	43,840	345	144	169	..	..
2014	7,421	22,025	29,446	15,393	44,839	353	146	171	..	..
2015	7,477	22,395	29,872	15,502	45,374	355	148	173	..	..
2016	7,829	23,019	30,848	15,611	46,459	372	152	179	..	..
2017	8,054	23,353	31,407	16,580	47,986	383	155	182	..	..
2018	8,518	23,023	31,541	16,594	48,137	405	152	183	..	..

1. The increase in motorway traffic in 2012 is the result of new motorway opening. More detail can be found in the road network chapter.

Table H4 Other vehicle related statistics

SUMMARY

Year	Vehicles licensed	New registrations of vehicles	Reported road casualties all severities	Vehicles licensed	New registrations of vehicles	Reported road casualties
	<i>thousand</i>	<i>thousand</i>	<i>number</i>		<i>index 1985=100</i>	
1962	775	86	26,703	51	48	98
1963	836	100	27,728	55	56	102
1964	900	117	30,527	59	65	112
1965	951	113	31,827	63	63	117
1966	991	113	32,280	65	62	118
1967	1,035	116	31,760	68	64	116
1968	1,065	119	30,649	70	66	112
1969	1,106	110	31,056	73	61	114
1970	1,124	117	31,240	74	65	114
1971	1,135	128	31,194	75	71	114
1972	1,181	161	31,762	78	89	116
1973	1,252	173	31,404	83	96	115
1974	1,274	143	28,783	84	79	105
1975 ¹	1,304	154	28,621	86	85	105
1976	1,314	159	29,933	87	88	110
1977	..	155	29,783	..	86	109
1978	1,308	179	30,506	86	99	112
1979	1,353	185	31,387	89	102	115
1980	1,398	176	29,286	92	97	107
1981	1,397	166	28,766	92	92	105
1982	1,416	171	28,273	94	95	104
1983	1,448	193	25,224	96	107	92
1984	1,489	183	26,158	98	101	96
1985	1,514	181	27,287	100	100	100
1986	1,546	181	26,117	102	100	96
1987	1,575	187	24,748	104	103	91
1988	1,657	200	25,425	109	111	93
1989	1,729	213	27,532	114	118	101
1990	1,788	194	27,228	118	107	100
1991	1,830	154	25,346	121	85	93
1992 ²	1,884	154	24,173	124	85	89
1993	1,874	170	22,414	124	94	82
1994 ³	1,900	170	22,573	125	94	83
1995	1,910	173	22,194	126	96	81
1996	1,966	183	21,716	130	101	80
1997	2,023	206	22,629	134	114	83
1998	2,073	210	22,467	137	116	82
1999	2,131	216	21,002	141	120	77
2000	2,188	220	20,518	145	122	75
2001 ⁴	2,262	241	19,911	149	134	73
2002	2,330	259	19,275	154	144	71
2003	2,383	262	18,756	157	145	69
2004	2,448	263	18,502	162	145	68
2005	2,531	251	17,885	167	139	66
2006	2,564	243	17,269	169	134	63
2007	2,627	251	16,239	174	139	60
2008	2,665	215	15,592	176	119	57
2009	2,684	216	15,043	177	120	55
2010	2,685	209	13,338	177	116	49
2011	2,691	202	12,785	178	112	47
2012	2,717	216	12,712	179	120	47
2013	2,759	241	11,492	182	133	42
2014	2,821	262	11,302	186	145	41
2015	2,863	268	10,977	189	148	40
2016	2,919	270	10,897	193	150	40
2017	2,962	250	9,433	196	138	35
2018	2,991	233	8,411	198	129	31

1. The figures for vehicles licensed for 1974 to 1978 are on different bases, due to the effect on the annual 'census' of the transfer of licensing records from local offices to the then DVLC

2. For years up to 1992 estimates are taken from the DVLA annual vehicle census, from 1993 onwards estimates are taken from the Vehicle Information Database and are not consistent with previous years. The VID figure for 1992 was 1,840,000 compared with the DVLA figure of 1,884,000.

3. New registration results to 1994 are taken from geographical analysis provided by DVLA. Results for 1995 onwards are estimated using post town area data. The vehicle taxation system was subject to major revisions from July 1995.

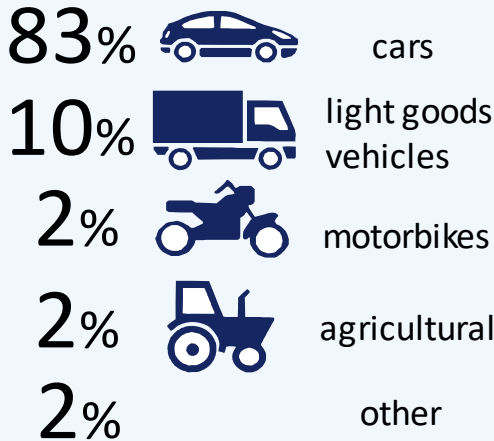
4. DfT has revised the figures for the light goods and goods body types back to 2001. DfT does not have the underlying data to revise earlier years' figures.

Chapter 1: Road Transport Vehicles

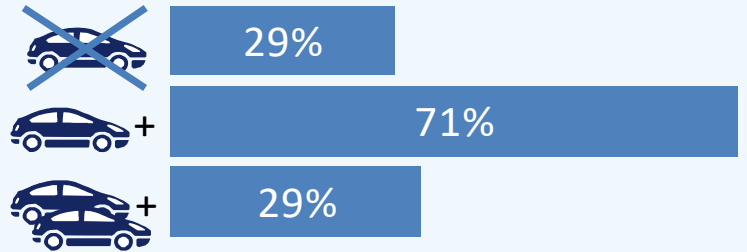
- Road transport vehicles
- Driving licence possession
- Car ownership
- Motor vehicle offences
- Blue Badge Scheme members.

2.99 million



Vehicles licensed for road use
in Scotland in 2018



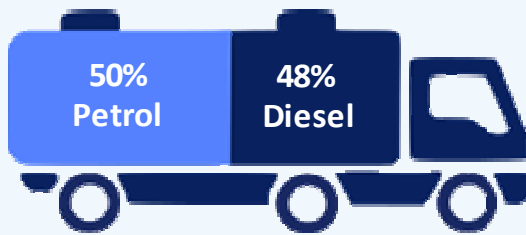
Car ownership in Scotland is increasing; most households (71%) had one or more cars available for private use in 2018



Households with:

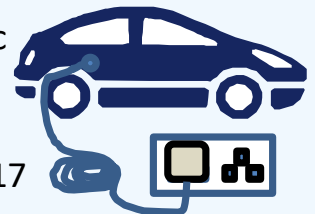
- more people 
 - a higher net income **££££**
 - a more rural/remote location 
- were likely to own more cars.

98% of road vehicles in Scotland ran on petrol or diesel in 2018.



Electric and hybrid cars have a small but increasing share (>1%)

10,294 new electric and hybrid registrations in 2018, 37% more than in 2017



Driving licence possession has increased by 2% in the last ten years (2008-2018)

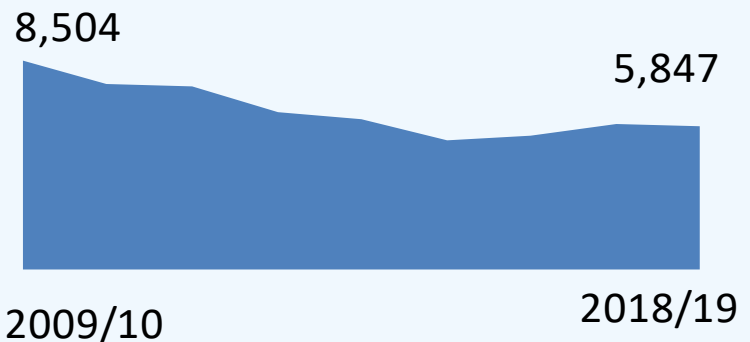


76% of men 64% of women owned a full driving license in 2018



License ownership tended to increase with household income

Drunk driving offences by year:



For web publication and further information, visit http://bit.ly/STS_alliterations



ROAD TRANSPORT VEHICLES

1. Introduction

This chapter provides information about the numbers of road transport vehicles, such as new registrations, numbers licensed by taxation group and council area, ages, cylinder sizes, methods of propulsion, gross weights of Heavy Goods Vehicles, seating capacity of public transport vehicles, licensing figures for taxi and private hire cars and their drivers and numbers of wheelchair accessible taxis. It also provides statistics of the most popular cars, results of the road vehicle testing scheme (MOT), driving tests, driving licence holders, households with the regular use of a car (from the Scottish Household Survey), the number of Blue Badges issued and information about motor vehicle offences recorded by the Police.

Key Points

- **There were 2.99 million vehicles licensed for use on the roads in Scotland in 2018, of which 83 per cent were cars.**
- **Over two thirds (70%) of the adult population (17+) held a full driving licence in 2018.**
- **Seventy one per cent of households had access to one or more cars or vans in 2018; over a quarter (29%) of households had access to two or more cars or vans.**

2. Main Points

Vehicles Licensed

2.1 The total number of new motor vehicles registrations in 2018 was around 233,058, 7% less than in 2017 and 8% less than 2008. (*Table 1.1*)

2.2 New registrations of cars in 2018 accounted for around 187,510 of these, around 17,000 (8%) less than in 2017, and 15,000 (9%) more than 2008. Of all new registered vehicles in 2018, 130,664 (56%) were petrol-propelled, and 92,000 (40%) were diesel-propelled. The remaining new vehicles registered in 2018 were mostly electric or hybrid-electric vehicles, both these groups have seen steady increases in new registrations in recent years. In the last 10 years, only 2011, 2013, 2014, 2015 and 2016 saw more new diesel vehicles registered than petrol vehicles. More detailed data on vehicles registered in 2018 by body type and propulsion is included in Chapter 13. (*Table 1.1*)

2.3 The total number of vehicles licensed was 2.99 million in 2018, 1 per cent higher than 2017 and 12% higher than in 2008. The number of private and light goods vehicles in 2018 was 2.7 million, 1% more than 2017 and 14% higher than 2008. (*Table 1.2*)

2.4 Glasgow had the largest number of vehicles licensed as at the end of 2018 (237,478), followed by Fife (210,554) and Edinburgh (199,993) - based on the postcode of the registered keeper. Per head of population (aged 17+), Dundee had the third lowest figure behind Edinburgh and Glasgow. Dundee had 519 vehicles for every 1,000 people aged 17+, Glasgow was lowest at 456. Vehicle ownership per head was much higher in rural areas – Renfrewshire had 954 vehicles per 1,000 people aged 17+ , Orkney had 928 and Aberdeenshire had 905, the three areas in Scotland with the highest vehicle ownership by population. The Scotland average was 670 per thousand. The pattern for car registrations was similar with Glasgow lowest, but Renfrewshire had the highest figure per thousand population at 808, followed by Stirling at 748. The effect of the registration of company car fleets can be seen: Renfrewshire accounted for 23 per

cent (40,756) of all the company cars registered in Scotland, compared to 5 per cent of all cars. (*Table 1.3*)

2.5 There were 10,193 taxis and 14,271 private hire cars licensed in Scotland based on figures provided by Scottish local licensing authorities during October-November 2019. These show that licensed taxis have fallen by 203 and private hire cars have risen by 428 compared with figures for 2018. Latest figures show that of the 10,153 licensed taxis, 4,835 (48%) are wheelchair accessible, the same proportion and slight increase in the total number of accessible vehicles from the previous year. The proportion of wheelchair accessible vehicles varies across different authority areas. (*Table 1.4*)

2.6 The average age of private and light goods vehicles in 2018 was 6.7 years, slightly higher than last year, and continuing a trend of increasing average age since 2007. The average age of private and light goods vehicles continued to be lower in Scotland than for Great Britain as a whole. In 2018 the average age of these vehicles in Great Britain was 7.9 years. (*Table 1.6*)

2.7 There were 5,710 licensed operators of heavy goods vehicles in Scotland in December 2019 and 752 public service vehicle licence holders. Most HGV operators had few (if any) vehicles specified on the licence: 2,651 had 0-2 vehicles, 1,434 had 3-5 vehicles and 784 had 6-10 vehicles. Only 96 operators had between 51 and 100 vehicles specified on the licence as at December 2019. (*Table 1.10*)

2.8 The most popular new car sold in Scotland in 2018 was the Ford Fiesta with a market share of 3.8%. The top 5 most popular models had a total market share of 14% and the top 10, 22%. (*Table 1.11*)

MOTs and Driving Tests

2.9 In 2018/19, about 35% of cars tested in the road vehicle testing scheme (MOT) were unsatisfactory, as were 14% of motor cycles. About 16% of cars tested had unsatisfactory suspension, 13% had unsatisfactory lamps, reflectors and electrical equipment and 13% had unsatisfactory brakes (a vehicle with more than one type of fault is counted against each of them). Seven per cent of motorcycles tested had unsatisfactory lamps and reflectors, 3% had unsatisfactory brakes and 3% had unsatisfactory structure and attachments. (*Table 1.12*)

2.10 There were 125,000 driving licence practical tests conducted in 2018, a decrease of 6% on 2017. The pass rate was 8% lower at 60%. The test centre at the Gairloch had the highest pass rate (86%), though only 37 tests were conducted, Pitlochry had the highest pass rate for centres where at least 100 tests were conducted (78%), while the lowest was at Inverness(Longman drive) (36%). (*Tables 1.13 & 1.14*)

2.11 The Scottish Household Survey results for 2018 showed that 70% of adults over the age of 17 held a full driving licence. Although men were more likely to hold a full driving licence than women in all age groups, the difference between the proportions increased with age. For the 17-19 age group in 2018, the difference was 8 percentage points. For 70-79 year olds there was a difference of 24 percentage points (men: 83%, women: 59%), which increased to 37 percentage points for those aged 80+ (men: 68%; women: 31%). (*Tables 1.16 and 1.17*)

2.12 SHS results also showed that the percentage of people holding a full driving licence tended to increase with household income. In 2018, 90% of adults aged 17+ living in households which had an annual net income of over £50,000 held a full driving

licence. In contrast, only 45% of adults who lived in households with an annual net income of up to £10,000 held a full driving licence.

2.13 License possession was also more likely in rural areas. In 2018, 61% of adults aged 17+ living in large urban areas held a full driving licence compared with 81% of those living in 'Remote Rural' areas (the Scottish Government urban/rural classification system used in the Survey is described in the Notes and Definitions section, page 225). (*Table 1.16*)

Car Availability

2.14 The Scottish Household Survey shows that 71 per cent of households had access to one or more cars in 2018, a proportion that has remained relatively stable over the last five years. Over a quarter (29%) of households had access to two or more cars. (*Table 1.19*) These estimates were similar to results from the Scotland Census 2011, which suggested that 69% of households have access to one or more cars, with 27% having two or more cars. The Census also showed that slightly fewer men (21 per cent) than women (26 per cent) aged 16 and over lived in households with no cars or vans available. (*Table 1.23*)

2.15 The Scottish Household Survey also shows how the percentage of households with a car available for private use varies between different household types, income bands and type of area. In 2018, family (small or large) and large adult households were most likely to have access to at least one car (large family: 93%, small family: 90%, large adult: 87%). (note definitions of family types are included in the Notes and Definitions section, page 225) Least likely to have access to a car were single pensioner households (45%). The SHS also showed that 29% of large adult and 18% of large family households had 3 or more cars available for private use in 2018. (*Table 1.20*) The 2011 Census showed that married or cohabiting families with dependent children were most likely to have access to a car, at 92%, and single pensioner households were the least likely, at 36%. (*Table 1.24*)

2.16 Only 41% of households whose net annual income was up to £10,000 had one or more cars available for private use, compared with at least 83% of households whose annual net income were above £25,000. Sixty one per cent of households in large urban areas had cars, compared with 85-88% of those in rural areas. (*Table 1.20*)

2.17 The car ownership statistics from the SHS can be supplemented with information on equalities from the 2011 Census. This shows that the proportion of households with no car or van available was generally higher for those where the Household Reference Person (HRP)¹ was from a minority ethnic group; within this group it was highest for households where the HRP was from the 'African' (60 per cent) or 'Caribbean or Black' (49 per cent) ethnic groups. Additionally, of the 473,000 people in households who had a long-term health problem or disability that limited their day-to-day activities a lot, 46 per cent lived in households with no cars or vans available. The corresponding proportion was 34 per cent for the 523,000 people whose day-day activities were limited a little and 19 per cent for the 4.2 million people who had no limiting long-term health problem. (*Table 1.25*)

2.18 There were 230,898 Blue Badges on issue in Scotland at the end of March 2019. 117,792 were issued to recipients of allowances or grants which provide an automatic entitlement to a Blue Badge, 110,456 were issued on a discretionary basis to other

¹ The 'Household Reference Person', or HRP, was introduced in the 2001 Census to replace the concept of the 'head of the household'. This allows a household to be further characterised using the properties of the HRP. The HRP is taken as the adult in the household with the highest economic activity – if the two people have the same economic activity then the oldest becomes the HRP.

people with a permanent or substantial disability, and 2,650 were issued to institutions. (Table 1.21)

Motor Vehicle Offences

2.19 The numbers of motor vehicle offences recorded by the police include offences in respect of which either the police or the procurator fiscal made a conditional offer of a fixed penalty (mainly *moving* vehicle offences). They do not include *stationary* vehicle offences which are dealt with by the police or traffic wardens by means of fixed penalty notices (mainly parking offences).

2.20 Following the establishment of Police Scotland, data for 2013-14 onwards are returned from one central unit within Police Scotland using their performance management tool. Prior to 2013-14, data were returned by the eight legacy police force areas. An extensive quality assurance exercise was carried out by the Scottish Government to ensure that the dataset produced from the new system is consistent with data returned from the legacy police forces.

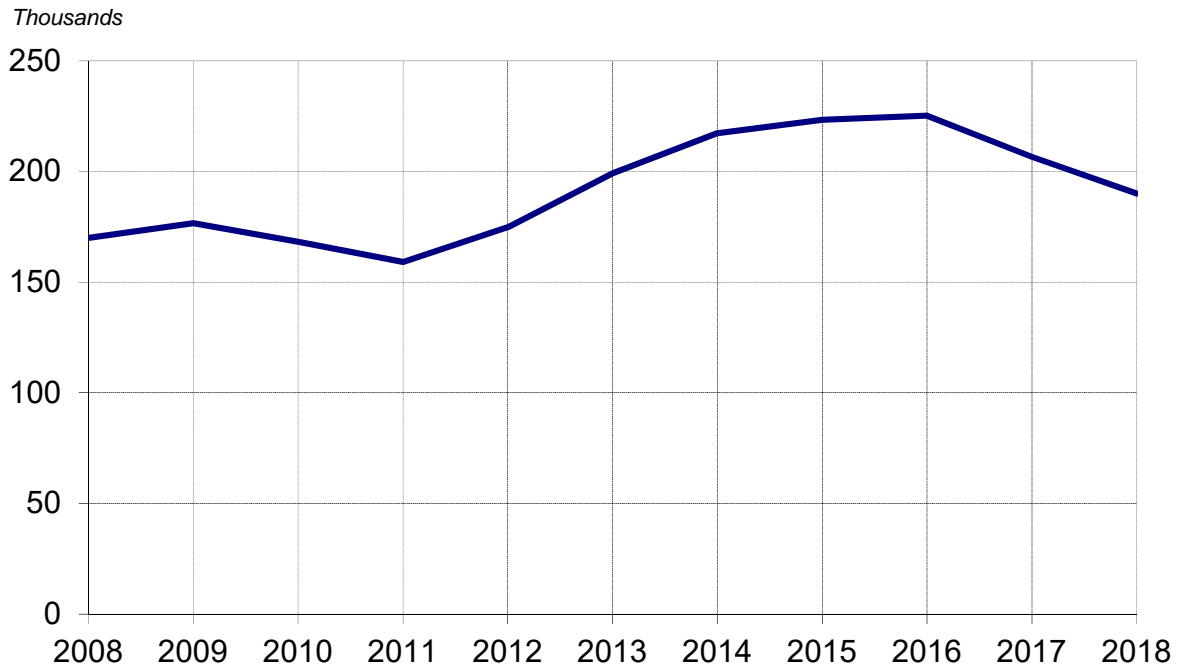
2.21 This exercise identified a number of anomalies affecting comparability of the time series resulting in breaks in the series. Further information about these discontinuities can be found in the Technical report, entitled Recorded Crime: Comparability of Police Scotland and Legacy Force Data, available from <http://www.gov.scot/Topics/Statistics/Browse/Crime-Justice/PubRecordedCrime/TechnicalReport>.

2.20 The total number of motor vehicle offences recorded in 2018-19 was 117,105 (Table 1.22).

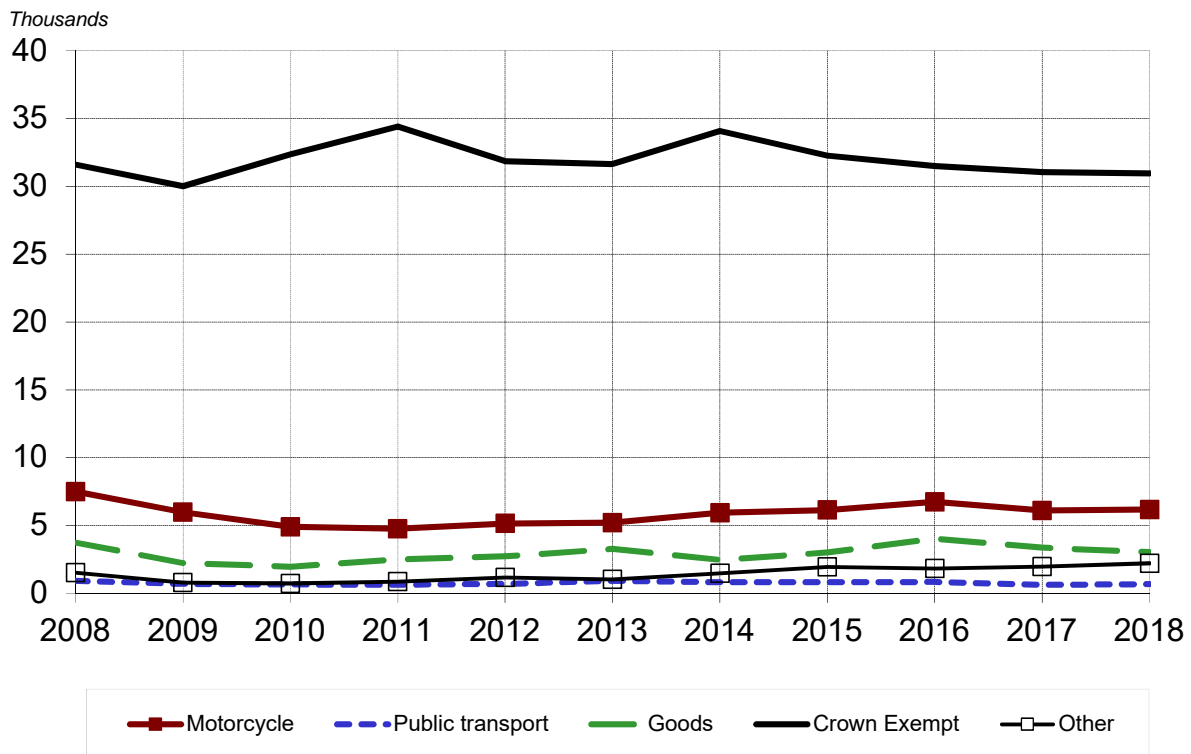
2.21 The total number of motor vehicle offences recorded decreased by 8% between 2017-18 and 2018-19; changes in these figures may arise because of changes in the level of enforcement or police deployment. The largest decreases were for vehicle excise licence offences (95% decrease from 3,792 to 176) and tachograph etc offences (40% decrease from 950 to 569). The largest increase was for driving while unfit through drink/drugs (7% increase from 719 to 771) (Table 1.22).

Figure 1.1 New registrations by taxation group

Private and Light goods vehicles



Other Vehicles



Note: In 2003 the definition of 'Crown Exempt' and 'Other' categories mean figures aren't strictly comparable.
See footnote 3 of table 1.1

Table 1.1 New registrations by taxation group, body type and method of propulsion

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	<i>thousand</i>										
by type of vehicle (taxation group)											
Private and light goods	170	177	168	159	175	199	217	223	225	207	190
Motorcycles	7	6	5	5	5	5	6	6	7	6	6
Buses	1	1	1	1	1	1	1	1	1	1	1
Goods	4	2	2	2	3	3	2	3	4	3	3
Crown and exempt ¹	32	30	32	34	32	32	34	32	32	31	31
Other vehicles ¹	2	1	1	1	1	1	1	2	2	2	2
Total	215	216	209	202	216	241	262	268	270	250	233
by body type											
Cars	173	186	177	168	183	205	222	222	222	204	188
Taxis	~	~	~	~	~	~	1	~	~	~	~
Motorcycles	8	6	5	5	5	5	6	6	7	6	6
Three wheelers	~	~	~	~	~	~	~	~	~	~	~
Light goods ³	23	14	18	20	18	20	23	28	29	28	28
Goods ³	4	3	2	3	3	4	3	4	5	4	4
Buses and coaches	1	1	1	1	1	1	1	1	1	1	1
Agricultural vehicles etc	4	3	3	3	3	3	3	3	3	3	3
Other vehicles	3	2	2	3	4	3	3	3	3	3	3
All vehicles	215	216	209	202	216	241	262	268	270	250	233
by method of propulsion											
Petrol	117	124	108	98	110	119	125	125	128	124	131
Diesel	97	91	99	102	104	120	133	138	137	118	92
Hybrid Electric	1	1	1	1	1	1	2	3	3	6	8
Electricity	~	1	1	1	1	1	2	1	1	2	2
Gas Bi-Fuel	~	~	~	~	~	~	c	0	~	~	~
Gas Or Petrol/Gas	~	~	~	~	~	~	~	~	~	~	~
Other ⁴	~	~	~	c	~	c	~	~	c	c	~
Total	215	216	209	202	216	241	262	268	270	250	233

Source: DVLA/DfT

c. Value has been suppressed to avoid disclosing personal information.

~ denotes fewer than 50.

1. Vehicles in the Special Concessionary Group (part of other vehicles in 2002 and earlier years) are part of Crown and Exempt from 2003 onwards

3. Gas Diesel and Steam.

Note: Table 13.9 in Chapter 13 shows vehicles first registered in 2018 by body type and method of propulsion.

Note: Table 13.9 in Chapter 13 shows vehicles first registered in 2018 by body type and method of propulsion.

Table 1.2 Vehicles licensed at 31 December, by taxation group, body type and method of propulsion

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	<i>thousand</i>										
by type of vehicle (taxation group)											
Private and light goods	2,347	2,362	2,364	2,369	2,395	2,436	2,496	2,537	2,594	2,638	2,665
Motorcycles	66	66	63	60	60	59	61	62	63	62	62
Buses	12	12	12	12	12	12	12	12	12	12	12
Goods	32	31	30	29	29	29	29	30	30	30	28
Crown and exempt ¹	198	203	206	211	212	213	214	211	208	207	211
Other vehicles ¹	9	9	9	9	10	10	10	11	11	12	12
Total	2,665	2,684	2,685	2,691	2,717	2,759	2,821	2,863	2,919	2,962	2,991
by body type											
Cars	2,233	2,249	2,255	2,264	2,285	2,319	2,369	2,394	2,433	2,462	2,486
Taxis	4	4	3	4	4	4	4	4	4	4	3
Motorcycles	71	72	69	66	66	66	67	68	70	70	71
Three wheelers	1	1	1	1	1	1	1	1	1	1	1
Light goods ²	240	242	240	238	241	247	256	269	283	294	298
Goods ²	38	37	36	36	35	36	36	37	38	38	37
Buses and coaches	17	17	16	16	16	15	15	15	15	15	14
Agricultural vehicles etc	44	45	45	47	48	48	49	50	50	52	54
Other vehicles	18	18	19	20	22	23	24	25	25	26	27
All vehicles	2,665	2,684	2,685	2,691	2,717	2,759	2,821	2,863	2,919	2,962	2,991
by method of propulsion											
Petrol	1,735	1,701	1,656	1,619	1,592	1,567	1,552	1,522	1,509	1,497	1,503
Diesel	923	974	1,018	1,061	1,113	1,178	1,252	1,321	1,386	1,435	1,450
Hybrid Electric	2	3	4	5	6	8	9	11	14	19	27
Electricity	1	2	2	2	3	4	5	6	7	9	10
Gas Bi-Fuel	2	2	2	2	2	2	2	1	1	1	1
Gas or petrol/gas	2	2	2	1	1	1	1	1	1	1	1
Steam	~	~	~	~	~	~	~	~	~	~	~
Others	~	~	~	~	~	~	~	~	~	~	~
Total	2,665	2,684	2,685	2,691	2,717	2,759	2,821	2,863	2,919	2,962	2,991

Source: DVLA/DfT

~ denotes fewer than 50.

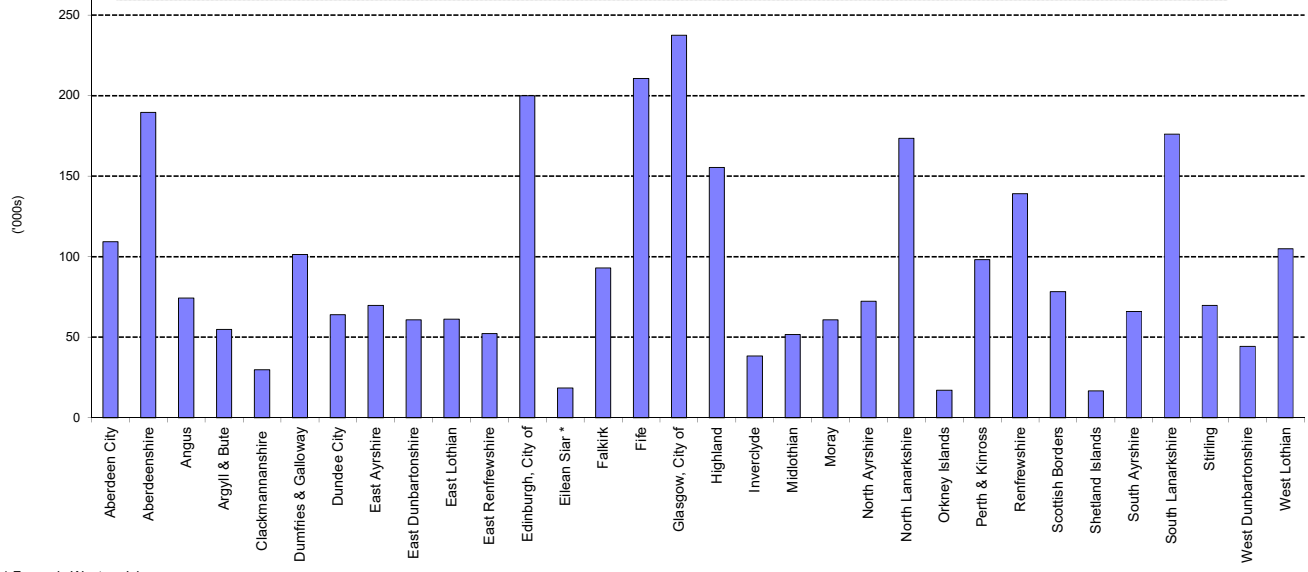
1. Vehicles in the Special Concessionary Group (part of other vehicles in 2002 and earlier years) are part of Crown and Exempt from 2003 onwards

2. DfT have revised stock figures from 2006 to 2009 - see

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/763837/vehicle-licensing-statistics-notes-definition

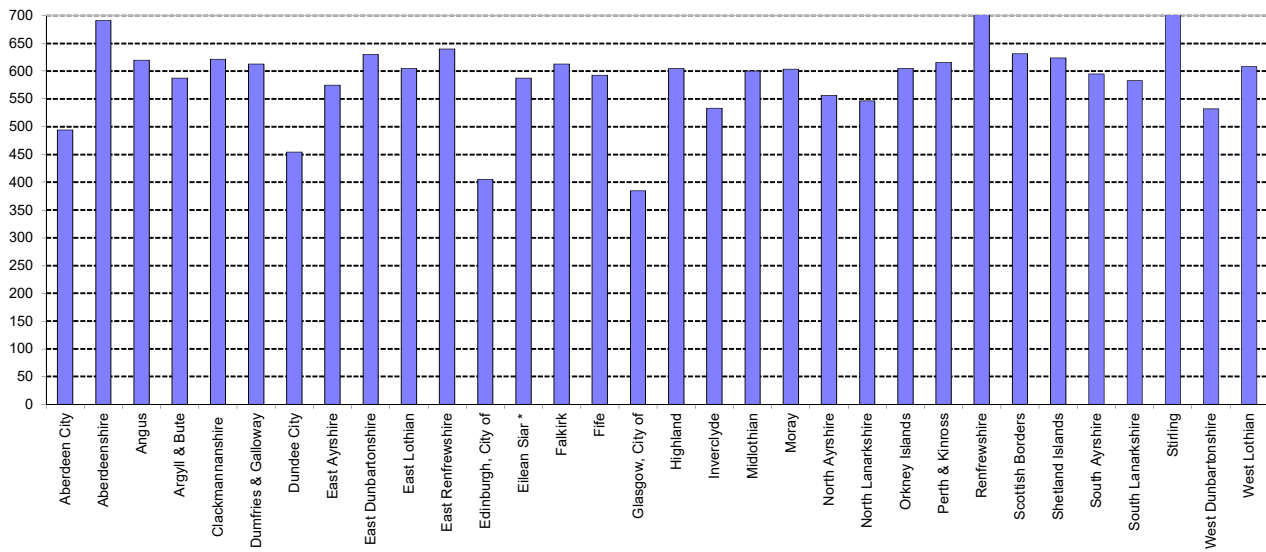
Note: Table 13.10 in Chapter 13 shows vehicles licensed in 2018 by body type and method of propulsion.

Figure 1.2 Vehicles licensed at 31 December 2018 by Council



* Formerly Western Isles

Figure 1.3 Private cars licensed at 31 December 2018 per thousand population aged 17+



* Formerly Western Isles

ROAD TRANSPORT VEHICLES

Table 1.3 Vehicles licensed at 31 December 2018 by Council and taxation group

	Private and light goods		Motor-cycles ¹	Buses	Goods ²	Crown and Exempt ³	Other vehicles	All vehicles			Population aged 17+ (NRS) Population estimates Mid 2018)	Vehicles registered per 1,000 people aged 17+	Cars registered per 1,000 people aged 17+
	Body type cars	Other vehicles						Total	of which body type cars	of which company cars			
	<i>thousand</i>												
Aberdeen City	91.4	8.9	2.8	0.5	0.9	4.3	0.4	109.3	94.4	4.3	190,985	572	494
Aberdeenshire	140.2	22.4	4.7	0.6	2.1	18.4	1.3	189.6	144.9	5.4	209,655	905	691
Angus	56.7	7.7	1.8	0.1	0.9	6.8	0.3	74.3	59.2	2.5	95,586	777	620
Argyll & Bute	40.6	7.7	1.2	0.3	0.6	4.2	0.3	54.8	42.5	1.8	72,394	757	587
Clackmannanshire	24.6	2.4	0.7	0.1	0.1	1.9	0.1	29.9	26.0	1.1	41,865	714	621
Dumfries & Galloway	72.0	13.0	2.6	0.2	1.5	11.7	0.4	101.3	75.9	3.9	123,948	817	613
Dundee City	52.8	4.6	1.3	0.3	0.5	4.5	0.1	64.0	56.0	3.4	123,394	519	454
East Ayrshire	54.0	6.5	1.6	0.2	0.7	6.6	0.2	69.8	57.1	3.0	99,441	702	575
East Dunbartonshire	53.4	3.6	1.0	0.1	0.2	2.4	0.1	60.8	55.4	1.7	87,928	692	630
East Lothian	49.4	5.5	1.6	0.1	0.3	4.1	0.1	61.2	51.6	2.1	85,342	717	605
East Renfrewshire	46.1	2.8	0.7	0.1	0.2	2.2	0.1	52.2	47.8	1.8	74,690	699	640
Edinburgh, City of	170.0	13.6	4.2	1.3	0.5	10.1	0.3	200.0	176.6	8.2	435,786	459	405
Eilean Siar ⁴	12.4	3.5	0.5	0.2	0.2	1.7	0.1	18.6	13.1	0.5	22,244	834	588
Falkirk	76.2	7.7	2.1	0.4	1.3	5.0	0.2	93.0	80.0	3.7	130,493	712	613
Fife	171.4	18.1	5.0	0.9	1.2	13.5	0.5	210.6	180.1	7.9	303,760	693	593
Glasgow, City of	185.7	24.8	3.0	1.5	1.8	19.0	1.8	237.5	200.4	18.8	521,149	456	385
Highland	112.2	22.6	3.9	0.6	1.4	13.6	1.0	155.4	117.1	5.4	193,695	802	605
Inverclyde	32.6	2.1	0.7	0.4	0.1	2.3	0.0	38.3	34.6	1.5	64,787	591	534
Midlothian	41.5	5.0	1.5	0.1	0.4	3.1	0.1	51.7	43.7	2.0	72,838	709	600
Moray	45.4	7.5	1.7	0.1	0.7	5.0	0.3	60.8	47.3	1.9	78,303	776	604
North Ayrshire	58.4	6.2	1.7	0.2	0.7	5.0	0.2	72.3	61.8	3.1	111,104	651	557
North Lanarkshire	139.7	16.3	2.7	0.5	2.7	11.1	0.4	173.6	149.4	8.7	273,439	635	546
Orkney Islands	10.5	2.8	0.5	0.1	0.2	2.9	0.2	17.1	11.1	0.5	18,417	928	605
Perth & Kinross	74.3	10.9	2.1	0.2	0.8	8.0	1.9	98.2	77.1	3.7	125,278	784	616
Renfrewshire	112.9	16.2	1.8	0.5	1.3	6.2	0.2	139.1	117.8	40.8	145,804	954	808
Scottish Borders	57.7	9.6	1.7	0.2	1.3	7.6	0.3	78.3	60.0	2.9	95,033	824	632
Shetland Islands	11.2	3.2	0.5	0.1	0.2	1.4	0.2	16.8	11.6	0.8	18,542	904	624
South Ayrshire	53.3	5.8	1.5	0.5	0.3	4.5	0.1	66.0	55.8	2.7	93,818	703	595
South Lanarkshire	143.6	14.8	3.0	0.6	2.3	11.3	0.5	176.0	151.8	7.8	260,474	676	583
Stirling	56.0	8.2	1.1	0.1	0.6	3.7	0.1	69.9	58.2	15.0	77,839	897	748
West Dunbartonshire	36.3	4.1	0.8	0.1	0.2	2.7	0.1	44.3	38.6	2.2	72,531	611	532
West Lothian	83.5	10.2	2.4	0.4	1.9	6.0	0.5	104.9	87.9	4.4	144,566	726	608
Council Unknown	0.6	0.1	0.0	0.0	0.0	0.6	0.0	1.3	0.9	0.1			
Scotland	2,366.8	298.1	62.2	11.7	28.3	211.4	12.2	2,990.7	2,486.0	173.6	4,465,128	670	557

Source: DVLA/DfT

1. Includes all two wheeled motor vehicles
2. Excludes heavy goods vehicles that are exempt from tax.
3. Vehicles in the Special Concessionary Group are now part of Crown and Exempt taxation group.
4. Formerly Western Isles

ROAD TRANSPORT VEHICLES

Table 1.4 Taxi, private hire cars and drivers licensed by local authority area, 2019

Council	Taxi vehicles	Private hire cars	Total	Taxi driver licenses	Private hire licences	Total	Wheelchair accessible taxis	Wheelchair accessible private hire cars
Aberdeen City	843	212	1,055	1,281	32	1,313	430	-
Aberdeenshire	395	227	622	1,453	136	1,589	42	32
Angus	108	58	166	185	96	281	5	2
Argyll & Bute	182	72	254	391	78	469	-	-
Clackmannanshire	53	52	105	156	7	163	4	1
Dumfries & Galloway	240	82	322	533	30	563	7	-
Dundee City	560	212	772	1,191	65	1,256	305	-
East Ayrshire	125	87	212	380	23	403	21	6
East Dunbartonshire	309	342	651	644	117	761	49	4
East Lothian ¹	138	125	263	385	-	385	138	-
East Renfrewshire	56	422	478	76	551	627	5	29
Edinburgh, City of	1,316	2,317	3,633	2,934	3,153	6,087	1,316	-
Eilean Siar	92	27	119	152	27	179	1	3
Falkirk	415	125	540	532	102	634	69	7
Fife ¹	476	364	840	1,794	-	1,794	19	46
Glasgow, City of	1,420	3,940	5,360	2,353	5,475	7,828	1,420	21
Highland	602	224	826	801	313	1,114	32	18
Inverclyde ¹	244	53	297	587	-	587	20	8
Midlothian	40	130	170	36	176	212	40	-
Moray	171	32	203	317	15	332	9	5
North Ayrshire	220	63	283	549	2	551	38	-
North Lanarkshire	492	1,466	1,958	1,158	1,542	2,700	176	1
Orkney Islands	44	34	78	112	15	127	1	2
Perth & Kinross ¹	107	223	330	602	-	602	10	22
Renfrewshire	235	986	1,221	472	1,019	1,491	229	33
Scottish Borders	203	75	278	311	30	341	14	12
Shetland Islands	78	57	135	287	71	358	2	1
South Ayrshire	125	173	298	512	74	586	125	-
South Lanarkshire	348	1,459	1,807	693	1,586	2,279	22	28
Stirling	76	109	185	335	15	350	15	12
West Dunbartonshire ¹	336	84	420	516	-	516	167	11
West Lothian	104	439	543	188	662	850	104	50
Scotland	10,153	14,271	24,424	21,916	15,412	37,328	4,835	354

Source: Scottish Government - Not National Statistics

1. Separate figures for taxi and private hire licences are not available.

ROAD TRANSPORT VEHICLES

Table 1.5 Vehicles licensed at 31 December 2018, by taxation group, and by year of first registration

Taxation group	Pre-2004	2004-2008	2009-2013	2014-2018	Total	Total stock	Average age of vehicles
	<i>percentage of total</i>					<i>thousands</i>	<i>years</i>
Private and light goods	5.4	18.9	30.6	45.1	100.0	2,665	6.7
<i>of which body type cars</i>	5.1	18.6	31.0	45.3	100.0	2,367	6.6
Motorcycles ¹	27.2	18.0	18.6	36.2	100.0	62	10.2
Buses	12.1	27.7	27.8	32.4	100.0	12	8.6
Goods	6.5	16.7	29.6	47.2	100.0	28	6.4
Crown and exempt	24.6	11.4	15.5	48.5	100.0	211	13.2
Other vehicles	14.0	14.0	18.0	54.0	100.0	12	7.1
All vehicles	7.3	18.4	29.2	45.2	100.0	2,991	7.2
<i>of which body type cars</i>	5.5	18.2	30.0	46.2	100.0	2,486	6.7

Source: DVLA/DfT

1. Includes all two wheeled motor vehicles.

Table 1.6 Average age of vehicles licensed at 31 December, by taxation group¹

Type of vehicle	2008 ⁵	2009 ⁵	2010	2011	2012	2013	2014	2015	2016	2017	2018
(a) Scotland											<i>years</i>
Private and light goods	5.8	6.0	6.1	6.3	6.5	6.5	6.6	6.6	6.6	6.6	6.7
Motorcycles ²	7.3	7.8	8.2	8.6	9.0	9.4	9.6	9.8	9.9	10.0	10.2
Buses ³	7.8	8.0	8.1	8.4	8.4	8.3	8.3	8.3	8.3	8.5	8.6
Goods	5.5	5.8	6.1	6.2	6.3	6.2	6.3	6.3	6.1	6.2	6.4
Crown and exempt ⁴	10.3	10.4	10.6	10.7	10.9	11.3	11.5	11.9	12.3	12.7	13.2
Other vehicles ⁴	7.2	7.5	7.7	7.8	7.8	7.9	7.8	7.5	7.3	7.3	7.1
All vehicles	6.2	6.4	6.5	6.7	6.9	7.0	7.0	7.0	7.1	7.1	7.2
(b) Great Britain											
Private and light goods	6.7	6.9	7.1	7.3	7.5	7.6	7.7	7.8	7.8	7.8	7.9
Motorcycles ²	7.2	7.7	8.1	8.5	8.9	9.2	9.5	9.6	9.6	9.8	9.9
Buses ³	7.9	8.0	8.2	8.4	8.4	8.4	8.5	8.5	8.5	8.6	8.6
Goods	5.7	6.0	6.4	6.4	6.4	6.3	6.4	6.4	6.4	6.4	6.4
Crown and exempt ⁴	14.3	14.4	14.2	14.5	14.7	15.2	15.6	16.0	16.5	16.9	17.6
Other vehicles ⁴	8.5	9.0	9.2	9.3	9.3	9.3	9.1	8.8	8.9	8.8	8.6
All vehicles	7.2	7.4	7.6	7.8	8.0	8.2	8.3	8.3	8.3	8.4	8.5

Source: DVLA/DfT

1. Average age is calculated using date of first registration rather than date of manufacture.

2. Includes all two wheeled motor vehicles.

3. Estimates include only those vehicles with more than 8 seats.

4. Vehicles in the Special Concessionary Group (part of other vehicles in 2002 and earlier years) are part of Crown and Exempt from 2003 onwards.

ROAD TRANSPORT VEHICLES

Table 1.7 Private and light goods vehicles licensed at 31 December, by cylinder size

Cylinder size	2008 ¹	2009 ¹	2010	2011	2012	2013	2014	2015	2016	2017	2018
	<i>percentage of year total</i>										
up to 700 cc	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
701 to 1,000 cc	3.8	3.8	3.8	3.8	4.0	4.5	5.2	5.9	6.7	7.4	8.5
1,001 to 1,200 cc	7.0	6.6	6.5	6.5	6.4	6.4	6.5	6.5	6.5	6.6	6.7
1,201 to 1,500 cc	24.4	24.7	25.3	25.7	26.0	26.2	26.2	26.3	26.5	26.5	26.5
1,501 to 1,800 cc	25.2	24.8	24.6	24.7	24.7	24.8	24.6	24.3	23.7	23.1	22.3
1,801 to 2,000 cc	23.0	23.2	22.9	22.5	22.0	21.4	20.9	20.4	20.1	20.3	20.4
2,001 to 2,500 cc	10.7	10.8	10.8	10.8	10.9	11.0	11.0	11.2	11.1	10.8	10.4
2,501 to 3,000 cc	3.9	4.0	4.1	4.1	4.0	4.0	3.9	3.9	3.8	3.8	3.8
3,000 cc and over	1.9	1.9	1.9	1.8	1.8	1.7	1.7	1.6	1.5	1.5	1.4
cc not known	~	~	~	~	~	~	~	~	~	~	~
Total	100	100	100	100	100	100	100	100	100	100	100
	<i>thousand</i>										
Total	2,347	2,362	2,364	2,369	2,395	2,436	2,496	2,537	2,594	2,638	2,665

Source: DVLA/DfT

~ denotes fewer than 50.

1. In 2010 DfT revised stock figures from 2006 to 2009 - see

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/763837/vehicle-licensing-statistics-notes-definitions.pdf

Table 1.8 Heavy goods vehicles licensed at 31 December, by gross weight

Gross weight (tonnes)	2008 ²	2009 ²	2010	2011	2012	2013	2014	2015	2016	2017	2018
	<i>percentage of year total</i>										
3.5 to 7.5	29.6	29.1	29.2	28.8	28.3	26.9	26.2	25.2	24.2	23.5	22.3
7.51 to 12	2.4	2.4	2.4	2.4	2.5	2.7	2.7	2.8	3.2	3.3	3.3
12.1 to 16	4.3	4.1	4.0	3.7	3.6	3.7	3.6	3.6	3.4	3.1	3.4
16.1 to 20	14.1	14.1	14.4	14.2	14.1	14.1	13.8	13.4	13.1	12.9	12.7
20.1 to 24	3.7	3.4	3.2	2.7	2.4	2.1	2.0	2.0	2.1	2.0	1.9
24.1 to 28	12.6	13.0	13.3	13.8	14.1	14.6	14.4	14.4	14.2	14.3	14.7
28.1 to 32	9.0	9.0	8.9	9.1	9.0	9.2	9.8	10.1	10.5	10.7	11.5
32.1 to 38	2.7	2.7	2.4	1.9	2.2	2.0	1.9	1.8	1.7	1.7	1.8
over 38	21.7	22.3	22.2	23.3	23.8	24.8	25.6	26.7	27.8	28.6	28.5
Total	100	100	100	100	100	100	100	100	100	100	100
	<i>thousand</i>										
Total ¹	32.2	31.2	30.4	29.4	28.9	28.9	29.4	29.7	30.3	30.3	28.3

Source: DVLA/DfT

1. Mainly heavy goods vehicles but includes vehicles which are licensed as HGVs but do not have a goods body type.

2. In 2010 DfT revised stock figures from 2006 to 2009 - see

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/763837/vehicle-licensing-statistics-notes-definitions.pdf

Table 1.9 Buses licensed at 31 December: by seating capacity

Number of seats	2008 ¹	2009 ¹	2010	2011	2012	2013	2014	2015	2016	2017	2018
9-15	1,825	1,766	1,795	1,753	1,721	1,701	1,666	1,636	1,615	1,528	1,464
16-32	3,871	3,920	3,912	3,795	3,836	3,916	3,995	4,013	4,094	4,111	4,159
33-40	1,266	1,186	1,117	1,082	1,003	948	1,008	975	975	1,002	986
41-48	1,370	1,383	1,379	1,415	1,458	1,507	1,528	1,529	1,418	1,383	1,375
49-56	1,859	1,757	1,667	1,580	1,449	1,384	1,388	1,380	1,306	1,321	1,270
57-64	217	270	274	319	397	413	443	463	472	448	493
65-72	523	525	583	539	553	513	510	513	487	486	492
73 and over	1,418	1,411	1,384	1,446	1,417	1,374	1,375	1,423	1,466	1,475	1,489
Total	12,349	12,218	12,111	11,929	11,834	11,756	11,913	11,932	11,833	11,754	11,728

Source: DVLA/DfT

1. In 2010 DfT revised stock figures from 2006 to 2009 - see

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/763837/vehicle-licensing-statistics-notes-definitions.pdf

Table 1.10 Heavy goods and public service vehicle operators in Scotland by licence type and number vehicles ¹

Number of vehicles specified on licence	HGV				PSV			
	Restricted	Standard National	Standard International	Total licence holders	Restricted	Standard National	Standard International	Total licence holders
0-2	1,674	816	161	2,651	238	91	15	344
3-5	581	691	162	1,434	-	97	21	118
6-10	276	417	91	784	-	93	36	129
11-20	95	256	53	404	-	56	26	82
21-50	47	174	50	271	-	21	26	47
51-100	12	67	17	96	-	9	8	17
101-200	6	31	9	46	-	3	1	4
201+	1	18	5	24	-	4	7	11
Total	2,692	2,470	548	5,710	238	374	140	752

1. As at December 2019

Source: Figures in previous versions of this table were obtained from VOSA. These figures are on a different basis and have been obtained from the Traffic Commissioners office: <https://data.gov.uk/dataset/2a67d1ee-8f1b-43a3-8bc6-e8772d162a3c/traffic-commissioners-goods-and-public-service-vehicle-operator-licence>

Table 1.11 The 20 most popular new cars sold in Scotland ¹, 2018

Position	Make	Range	Number of cars sold	Market share percent
1	FORD	FIESTA	7,002	3.8
2	VAUXHALL	CORSA	6,688	3.6
3	FORD	FOCUS	4,451	2.4
4	VOLKSWAGEN	POLO	4,342	2.3
5	VOLKSWAGEN	GOLF	3,483	1.9
6	VAUXHALL	CROSSLAND	3,334	1.8
7	MINI	MINI	3,205	1.7
8	NISSAN	QASHQAI	3,130	1.7
9	VAUXHALL	MOKKA X	3,126	1.7
10	RENAULT	CLIO	3,011	1.6
11	FIAT	500	2,726	1.5
12	HYUNDAI	TUCSON	2,690	1.4
13	KIA	SPORTAGE	2,686	1.4
14	VAUXHALL	ASTRA	2,544	1.4
15	FORD	KUGA	2,496	1.3
16	TOYOTA	AYGO	2,437	1.3
17	TOYOTA	YARIS	2,281	1.2
18	RENAULT	CAPTUR	2,199	1.2
19	MERCEDES	A-CLASS	2,131	1.1
20	HYUNDAI	I10	2,091	1.1
		Total top 20 cars	66,053	35.4
		Total all other cars	120,630	64.6
		Total cars sold	186,683	100.0

Source: SMMT - Not National Statistics

1. Figures relate to cars sold by members of the Society of Motor Manufacturers and Traders Ltd to customers resident in Scotland. Figures differ from the numbers of new registrations of cars in Table 1.1, as the latter may include cars purchased elsewhere.

Table 1.12 Road vehicle testing scheme (MOT) ^{1,8}

	20th May 2018 - 19th May 2019	Failures with at least one Dangero us defect	Failures with only Major defects
Cars ²			<i>thousands</i>
Total Tests	2,309.8		
Pass with Rectification at Station	109.2		
Fail	710.4	238.2	581.4
Initial Failure Rate ⁴	35.5	10.3	25.2
Final Failure Rate ⁵	30.8		
		<i>percent</i>	
Body, chassis, structure	5.8	0.5	5.4
Brakes	12.7	4.0	10.7
Identification of the vehicle	0.5	0.0	0.5
Lamps, reflectors and electrical equipment	13.3	0.3	13.2
Noise, emissions and leaks	4.1	0.1	4.1
Road Wheels	0.4	0.1	0.3
Seat belts and supplementary restraint systems	1.3	0.0	1.3
Speedometer and speed limiter	0.0	0.0	0.0
Steering	3.1	0.2	2.9
Suspension	14.5	1.0	14.0
Tyres	6.9	5.3	1.9
Visibility	6.0	0.0	6.0
Defect Items per Initial Test Failure	3.00	0.43	2.56

	20th May 2018 - 19th May 2019	Failures with at least one Dangerou s defect	Failures with only Major defects
Private Passenger (over 12 seats)			<i>thousands</i>
Total Tests	4.2		
Pass with Rectification at Station	0.2		
Fail	1.1	0.4	0.9
Initial Failure Rate ⁴	30.7	9.5	21.4
Final Failure Rate ⁵	26.9		
		<i>percent</i>	
Body, chassis, structure	6.4	1.5	5.6
Brakes	16.5	4.7	15.0
Buses and coaches supplementary tests	3.1	0.2	3.0
Identification of the vehicle	0.3	-	0.3
Lamps, reflectors and electrical equipment	13.7	0.4	13.5
Noise, emissions and leaks	3.7	0.3	3.6
Road Wheels	0.2	0.0	0.1
Seat belt installation check	0.0	-	0.0
Seat belts and supplementary restraint systems	4.3	0.3	4.1
Speedometer and speed limiter	0.5	-	0.5
Steering	3.5	0.3	3.3
Suspension	9.7	1.1	9.1
Tyres	3.4	2.5	1.0
Visibility	4.8	0.1	4.7
Defect Items per Initial Test Failure	4.04	0.51	3.53

	20th May 2018 - 19th May 2019	Failures with at least one Dangero us defect	Failures with only Major defects
Motor cycles			<i>thousands</i>
Total Tests	60.7		
Pass with Rectification at Station	2.8		
Fail	5.6	2.4	6.0
Initial Failure Rate ⁴	13.8	4.0	9.9
Final Failure Rate ⁵	9.3		
		<i>percent</i>	
Identification of the vehicle	0.8	0.0	0.8
Motorcycle audible warning (Horn)	0.7	0.0	0.7
Motorcycle brakes	3.4	1.1	2.6
Motorcycle lamps and reflectors	7.3	0.3	7.1
Motorcycle steering	1.3	0.4	0.9
Motorcycle structure and attachments	2.5	0.5	2.1
Motorcycle suspension	2.1	0.2	2.0
Motorcycle tyres	2.0	1.7	0.3
Motorcycle wheels	0.3	0.1	0.1
Defect Items per Initial Test Failure	1.86	0.34	1.51

	20th May 2018 - 19th May 2019	Failures with at least one Dangerou s defect	Failures with only Major defects
Light goods vehicles ⁷			<i>thousands</i>
Total Tests	58.0		
Pass with Rectification at Station	2.6		
Fail	22.5	9.0	16.1
Initial Failure Rate ⁴	43.1	15.5	27.8
Final Failure Rate ⁵	38.7		
		<i>percent</i>	
Body, chassis, structure	9.0	1.4	8.2
Brakes	24.6	8.9	21.8
Identification of the vehicle	0.9	-	0.9
Lamps, reflectors and electrical equipment	24.5	0.9	24.2
Noise, emissions and leaks	5.5	0.3	5.3
Road Wheels	0.2	0.1	0.2
Seat belts and supplementary restraint systems	3.0	0.1	2.9
Speedometer and speed limiter	0.0	-	0.0
Steering	5.9	0.5	5.5
Suspension	16.3	2.3	15.1
Tyres	6.0	4.5	1.8
Visibility	8.9	0.2	8.8
Defect Items per Initial Test Failure	4.48	0.57	3.91

1. Vehicle numbers are for valid, and completed normal tests only. Retests are excluded.

2. Cars, vans and passenger vehicles with up to 12 seats.

3. PRS = Pass with Rectification at Station

4. Initial Failure Rate = (PRS + Failures) / Total Tests

5. Final Failure Rate = Failures / Total Tests

6. Reason for Rejection

7. Over 3,000kg and up to and including 3,500kg.

8. There was a significant change in regulations for the MOT scheme on 20th May 2018. Whilst the basic failure rates can be directly compared, with a recognition of the changes, the defect categories were totally changed, and there is no direct comparison. In addition, new 'Deficiency Categories' were introduced. Dangerous for the most serious issues, and Major for other failure items. Figures are provided here with the new Deficiency Categories.

Table 1.13 Driving licence tests, DVLA receipts¹

	2010	2011	2012	2013	2014	2015	2016	2017	2018
Theory ⁴									<i>thousand</i>
Applications received	..	..	..	..	..	..	..	..
Theory tests conducted	99	103	99	122	129	190	147	164	149
Theory test passes	65	66	61	67	69	94	76	90	81
									<i>percent</i>
Theory test pass rate	66	64	62	54	54	49	52	55	54
Practical ^{2,4}									<i>thousand</i>
Applications received	132	130	119	126	127	136	143	142	135
Driving tests concluded	126	125	113	124	123	123	140	133	125
Passes	58	59	54	58	59	60	69	65	60
									<i>percent</i>
Pass rate	47	47	47	47	48	48	50	49	48
DVLA receipts									<i>£ million</i>
Vehicle licences ³	463.0	479.0	473.0	479.6	512.5	512.7	..	..	..
Driving licences	..	..	..	..	..	..	..	..	..
Total	..	..	..	..	..	..	..	..	..

Source: DVLA and DSA - Not National Statistics

1. Figures relate to the financial year which commences in the specified calendar year.

2. The practical test figures are provisional.

3. The vehicle licence figure does not include refunds issued. DVLA are currently investigating the financial accuracy of these figures and an update for vehicle licences is not available at the moment.

4. These figures are for car licence tests only.

Table 1.14 Practical Driving Test - Pass Rate at Test Centres 2018-19

	Male			Female			Overall		
	Conducted	Pass	Pass rate	Conducted	Pass	Pass rate	Conducted	Pass	Pass rate
Aberdeen North (Bridge of Don) (M)	1,577	963	61.1%	2,094	1,076	51.4%	3,671	2,039	55.5%
Aberdeen South (Cove) (M)	1,588	883	55.6%	1,780	857	48.1%	3,368	1,740	51.7%
Airdrie (M)	1,765	854	48.4%	1,934	828	42.8%	3,699	1,682	45.5%
Alness (R)	467	276	59.1%	391	223	57.0%	858	499	58.2%
Arbroath (R)	286	199	69.6%	346	210	60.7%	632	409	64.7%
Ayr (M)	984	499	50.7%	1,052	458	43.5%	2,036	957	47.0%
Ballater (R)	71	57	80.3%	105	67	63.8%	176	124	70.5%
Banff (R)	113	77	68.1%	135	79	58.5%	248	156	62.9%
Bishopbriggs (M)	2,858	1,442	50.5%	2,944	1,356	46.1%	5,802	2,798	48.2%
Buckie (R)	157	94	59.9%	139	75	54.0%	296	169	57.1%
Callander (O)	146	67	45.9%	255	110	43.1%	401	177	44.1%
Campbeltown (R)	45	35	77.8%	62	41	66.1%	107	76	71.0%
Castle Douglas (R)	208	100	48.1%	167	81	48.5%	375	181	48.3%
Crieff (R)	66	51	77.3%	97	67	69.1%	163	118	72.4%
Cumnock (T)	473	293	61.9%	572	315	55.1%	1,045	608	58.2%
Dumbarton (M)	777	419	53.9%	908	428	47.1%	1,685	847	50.3%
Dumfries (M)	782	379	48.5%	850	374	44.0%	1,632	753	46.1%
Dundee (M)	1,994	1,190	59.7%	2,426	1,319	54.4%	4,420	2,509	56.8%
Dunfermline (M)	1,407	697	49.5%	1,633	751	46.0%	3,040	1,448	47.6%
Dunoon (R)	107	63	58.9%	132	76	57.6%	239	139	58.2%
Duns (R)	32	27	84.4%	79	49	62.0%	111	76	68.5%
East Kilbride (T)	666	292	43.8%	1,024	414	40.4%	1,690	706	41.8%
Edinburgh (Currie) (M)	3,076	1,593	51.8%	3,317	1,608	48.5%	6,393	3,201	50.1%
Edinburgh (Musselburgh) (M)	3,251	1,526	46.9%	4,056	1,611	39.7%	7,307	3,137	42.9%
Elgin (M)	899	468	52.1%	1,043	472	45.3%	1,942	940	48.4%
Forfar (R)	285	206	72.3%	310	182	58.7%	595	388	65.2%
Fort William (R)	196	114	58.2%	181	107	59.1%	377	221	58.6%
Fraserburgh (O)	181	117	64.6%	297	171	57.6%	478	288	60.3%
Gairloch (R)	19	18	94.7%	18	14	77.8%	37	32	86.5%
Galashiels (M)	463	258	55.7%	431	241	55.9%	894	499	55.8%
Girvan (T)	113	66	58.4%	122	72	59.0%	235	138	58.7%
Glasgow (Annie'sland) (M)	4,914	1,977	40.2%	5,143	1,866	36.3%	10,057	3,843	38.2%
Glasgow (Baillieston) (M)	3,059	1,314	43.0%	3,642	1,378	37.8%	6,701	2,692	40.2%
Glasgow (Shieldhall) (M)	3,027	1,183	39.1%	3,284	1,149	35.0%	6,311	2,332	37.0%
Golspie (R)	55	35	63.6%	89	54	60.7%	144	89	61.8%
Grangemouth (M)	1,591	932	58.6%	1,962	999	50.9%	3,553	1,931	54.3%
Grantown-On-Spey (R)	67	34	50.7%	83	45	54.2%	150	79	52.7%
Greenock (M)	841	384	45.7%	1,112	472	42.4%	1,953	856	43.8%
Haddington (R)	505	329	65.1%	603	364	60.4%	1,108	693	62.5%
Hamilton (M)	2,512	1,219	48.5%	2,681	1,207	45.0%	5,193	2,426	46.7%
Hawick (R)	178	112	62.9%	162	97	59.9%	340	209	61.5%
Huntly (R)	134	82	61.2%	165	98	59.4%	299	180	60.2%
Inveraray (R)	30	24	80.0%	39	34	87.2%	69	58	84.1%
Inverness (Longman Drive)	81	29	35.8%	87	32	36.8%	168	61	36.3%
Inverness (Seafield Road)	147	67	45.6%	168	67	39.9%	315	134	42.5%
Inverurie (R)	412	270	65.5%	454	289	63.7%	866	559	64.5%
Irvine (M)	1,971	1,129	57.3%	2,363	1,219	51.6%	4,334	2,348	54.2%
Islay Island (R)	22	19	86.4%	27	18	66.7%	49	37	75.5%
Isle of Mull (R)	8	6	75.0%	18	15	83.3%	26	21	80.8%
Isle of Skye (Broadford) (R)	19	10	52.6%	14	7	50.0%	33	17	51.5%
Isle of Skye (Portree) (R)	59	44	74.6%	85	50	58.8%	144	94	65.3%
Isle of Tiree	..	..	..	..	..	..	7	6	85.7%
Kelso (R)	96	52	54.2%	147	83	56.5%	243	135	55.6%
Kingussie (R)	57	33	57.9%	51	27	52.9%	108	60	55.6%
Kirkcaldy (M)	2,032	1,207	59.4%	2,339	1,148	49.1%	4,371	2,355	53.9%
Kyle of Lochalsh (R)	37	19	51.4%	45	22	48.9%	82	41	50.0%
Lairg (R)	14	6	42.9%	16	9	56.3%	30	15	50.0%
Lanark (R)	744	438	58.9%	942	494	52.4%	1,686	932	55.3%
Lerwick (R)	202	146	72.3%	222	146	65.8%	424	292	68.9%
Livingston (M)	1,921	938	48.8%	2,430	986	40.6%	4,351	1,924	44.2%
Lochgilthead (R)	78	61	78.2%	71	54	76.1%	149	115	77.2%
Mallaig (R)	13	10	76.9%	9	9	100.0%	22	19	86.4%
Montrose (Broomfield Ind Estate) (R)	264	187	70.8%	346	228	65.9%	610	415	68.0%
Newton Stewart (R)	103	65	63.1%	87	56	64.4%	190	121	63.7%
Oban (R)	155	91	58.7%	152	95	62.5%	307	186	60.6%
Orkney (R)	142	89	62.7%	159	109	68.6%	301	198	65.8%
Paisley (M)	2,642	1,298	49.1%	3,102	1,360	43.8%	5,744	2,658	46.3%
Peebles (R)	125	75	60.0%	144	88	61.1%	269	163	60.6%
Perth (Arran Road) (M)	963	577	59.9%	1,061	505	47.6%	2,024	1,082	53.5%
Peterhead (M)	449	318	70.8%	573	322	56.2%	1,022	640	62.6%
Pitlochry (R)	58	52	89.7%	59	39	66.1%	117	91	77.8%
Rothsay (R)	45	27	60.0%	63	32	50.8%	108	59	54.6%
Stirling (M)	1,543	720	46.7%	1,945	765	39.3%	3,488	1,485	42.6%
Stornoway (R)	149	93	62.4%	229	116	50.7%	378	209	55.3%
Stranraer (R)	128	74	57.8%	162	101	62.3%	290	175	60.3%
Thurso (R)	93	54	58.1%	110	71	64.5%	203	125	61.6%
Ullapool (R)	31	23	74.2%	21	16	76.2%	52	39	75.0%
Wick (M)	176	113	64.2%	150	83	55.3%	326	196	60.1%
ZInverness (Cradlehall Business Park)	828	420	50.7%	892	407	45.6%	1,720	827	48.1%
Scotland	57,918	29,811	51.5%	66,744	30,648	45.9%	124,662	60,459	48.5%

Source: Driver & Vehicle Standards Agency - Not National Statistics

(M) - Main Test Centre

(O) - Outstation

(R) - Remote Driving Test Centre

(T) - Taking Testing to the Customer site

z prefix indicates test centre is now closed

Note: Centres where only one examiner has conducted tests have been removed from the details, though they have been included in the national totals.

Table 1.15 People who hold a full car driving licence ¹ by age

Note: This table has been removed as data are no longer available for Scotland. Latest Scottish estimates are given in table 1.16 although this is based on a different source.

Table 1.16 People who hold a full driving licence 2018

	Age group								All	Sample size
	17-19	20-29	30-39	40-49	50-59	60-69	70-79	80+	17 +	
	<i>percentage of the relevant sub-group¹</i>									<i>number</i>
All people:	29	57	73	79	79	77	70	48	70	9,650
by sex:										
Men	33	58	76	82	85	86	83	68	76	4,280
Women	25	55	71	76	73	68	59	31	64	5,360
Identified in another way	**	**	**	**	**	**	**	**	**	-
Refused	**	**	**	**	**	**	**	**	**	-
by annual net household income:										
up to £ 10,000 p.a.	**	34	29	52	49	63	53	32	45	930
over £ 10,000, up to £ 15,000	**	38	48	51	58	64	60	43	52	1,530
over £ 15,000, up to £ 20,000	**	49	56	61	62	69	63	47	57	1,480
over £ 20,000, up to £ 25,000	**	48	61	73	76	76	77	52	66	1,160
over £ 25,000, up to £ 30,000	**	70	65	79	81	82	70	59	70	880
over £ 30,000, up to £ 40,000	**	73	84	84	86	84	86	**	81	1,270
over £40,000 - £50,000	**	79	82	87	92	91	98	**	84	920
over £50,000 p.a.	**	76	91	95	96	93	**	**	90	1,080
by Scottish Index of Multiple Deprivation:										
1 - Most Deprived	**	41	59	54	57	57	42	27	50	1,830
2	**	55	70	73	72	65	61	30	62	1,850
3	**	56	77	84	82	82	71	53	73	2,140
4	**	67	79	86	88	89	79	57	78	2,080
5 - Least Deprived	**	65	83	94	92	89	88	66	83	1,760
by urban / rural classification:										
Large urban areas	27	48	65	74	71	69	59	43	61	2,960
Other urban areas	31	63	78	79	77	75	68	44	71	3,230
Accessible small towns	**	73	80	83	81	87	74	49	76	830
Remote small towns	**	60	62	69	88	70	70	59	66	580
Accessible rural areas	**	60	85	90	92	88	86	58	82	1,020
Remote rural areas	**	76	82	89	91	85	84	56	81	1,030
Sample size (age group)	190	1,040	1,420	1,360	1,680	1,660	1,480	820	9,650	9,650

Source: Scottish Household Survey. The interviewer asks whether the person holds a full driving licence (car or motorcycle).

1. The denominator includes people for whom it was not known, or not recorded, what type of driving licence (if any) was held.

** Estimates based on smaller sample sizes may be subject to larger levels of variation and therefore may see relatively large fluctuations over time.

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Table 1.17 People who hold a full driving licence, 2008-2018

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
All people	<i>percent of population ¹</i>										
Age group											
17-19	32	25	27	26	28	26	29	26	30	31	29
20-29	56	58	58	54	58	56	56	54	55	55	57
30-39	78	77	76	77	75	74	73	72	73	73	73
40-49	83	80	81	80	80	80	82	82	81	81	79
50-59	78	78	78	78	79	80	79	78	81	81	79
60-69	70	75	72	74	73	74	74	76	76	77	77
70-79	53	55	54	57	59	60	61	62	63	67	70
80+	31	37	37	35	37	41	40	43	43	47	48
All aged 17+	68	68	68	67	68	68	69	68	69	70	70
Sample size	12,267	12,447	12,361	12,801	9,828	9,838	9,720	9,340	9,570	9,760	9,650
Men											
Age group											
17-19	32	28	28	33	35	24	32	28	36	42	33
20-29	62	61	64	58	59	60	59	55	58	57	58
30-39	81	81	80	81	78	78	77	73	78	76	76
40-49	87	86	86	84	86	84	85	85	82	83	82
50-59	84	85	85	87	85	88	85	84	85	85	85
60-69	84	86	84	86	83	86	85	83	83	85	86
70-79	77	78	74	79	79	76	80	76	81	80	83
80+	55	60	59	60	63	64	66	67	65	66	68
All aged 17+	76	76	76	76	76	76	76	73	75	75	76
Sample size	5,289	5,400	5,450	5,515	4,377	4,405	4,410	4,210	4,360	4,520	4,280
Women											
Age group											
17-19	33	21	25	17	19	29	27	23	26	22	25
20-29	50	56	51	51	57	52	54	53	53	54	55
30-39	76	73	73	73	71	71	69	71	69	71	71
40-49	78	74	76	77	74	76	80	79	80	78	76
50-59	73	71	72	70	75	72	73	72	77	76	73
60-69	57	64	62	63	65	64	65	68	68	70	68
70-79	37	38	40	43	43	48	46	52	50	56	59
80+	16	22	21	19	22	26	23	27	28	34	31
All aged 17+	60	61	60	60	62	61	62	63	63	64	64
Sample size	6,978	7,047	6,911	7,286	5,451	5,433	5,320	5,130	5,210	5,250	5,360

Source: Scottish Household Survey. The interviewer asks whether the person holds a full driving licence (car or motorcycle).

1. The denominator includes people for whom it was not known, or not recorded, what type of driving licence (if any) was held.

Note: For some age groups the sample sizes are relatively small and so estimates can be subject to greater fluctuations over time.

Table 1.18 Households with the regular use of a car

Note: This table has been removed as data are no longer available for Scotland .

Latest Scottish estimates are given in table 1.19 although this is based on a different source.

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Table 1.19 Households with a car available for private use¹, 2008-2018²

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Cars available for private use:											
	<i>percent of households</i>										
None	30.2	30.7	30.3	30.1	31.0	30.2	30.8	30.0	29.3	28.1	28.6
1	43.9	43.7	44.0	44.5	43.0	44.0	43.3	43.3	42.1	42.7	42.0
2	21.8	21.5	21.6	21.0	21.3	21.3	21.1	21.7	23.0	23.4	23.7
3+	4.0	4.2	4.1	4.4	4.6	4.6	4.7	5.1	5.6	5.8	5.7
1+	69.8	69.3	69.7	69.9	69.0	69.8	69.2	70.1	70.7	71.9	71.4
2+	25.8	25.6	25.7	25.4	26.0	25.8	25.9	26.8	28.5	29.2	29.4
Sample size	<i>13,821</i>	<i>14,190</i>	<i>14,214</i>	<i>14,358</i>	<i>10,644</i>	<i>10,652</i>	<i>10,630</i>	<i>10,330</i>	<i>10,470</i>	<i>10,680</i>	<i>10,530</i>

1. Source : Scottish Household Survey. Vans are *not* counted in this table.

2. From 2012 Q4 the question was changed to ask about access to cars / vans instead of just cars.

Table 1.20 Households with a car or van available for private use¹, 2018

	Number of cars or vans available for private use						Sample size (=100%)
	None	1	2	3 +	1+	2 +	
All households:	28.6	42.0	23.7	5.7	71.4	29.4	10,530
<i>percent of households</i>							
by household type:							
Single adult	48	46	5	1	52	6	1,940
Small adult	20	36	39	5	80	44	1,630
Single parent	41	48	10	0	59	10	500
Small family	10	40	46	4	90	50	1,230
Large family	7	33	42	18	93	60	530
Large adult	13	25	33	29	87	62	850
Older smaller	14	55	28	3	86	31	1,980
Single pensioner	55	42	2	0	45	3	1,880
by annual net household income:							
up to £10,000 p.a.	59	33	7	1	41	8	980
over £ 10,000, up to £ 15,000	54	38	7	1	46	8	1,610
over £ 15,000, up to £ 20,000	38	49	10	2	62	12	1,580
over £ 20,000, up to £ 25,000	28	53	16	3	72	20	1,240
over £ 25,000, up to £ 30,000	17	55	23	6	83	28	970
over £ 30,000, up to £ 40,000	10	47	35	8	90	43	1,420
over £40,000 - £50,000	5	35	50	10	95	60	1,060
over £50,000 p.a.	4	27	53	16	96	69	1,230
by Scottish Index of Multiple Deprivation:							
1 - Most Deprived	49	37	11	3	51	14	1,960
2	36	43	18	4	64	22	2,060
3	26	43	24	6	74	31	2,330
4	17	43	31	8	83	40	2,300
5 - Least Deprived	14	44	35	7	86	42	1,880
by urban / rural classification:							
Large urban areas	39	40	18	3	61	21	3,220
Other urban areas	28	42	25	5	72	30	3,580
Accessible small towns	22	46	25	7	78	33	930
Remote small towns	28	48	20	5	72	24	600
Accessible rural areas	12	40	35	13	88	48	1,120
Remote rural areas	15	45	32	8	85	40	1,080

1. Source : Scottish Household Survey.

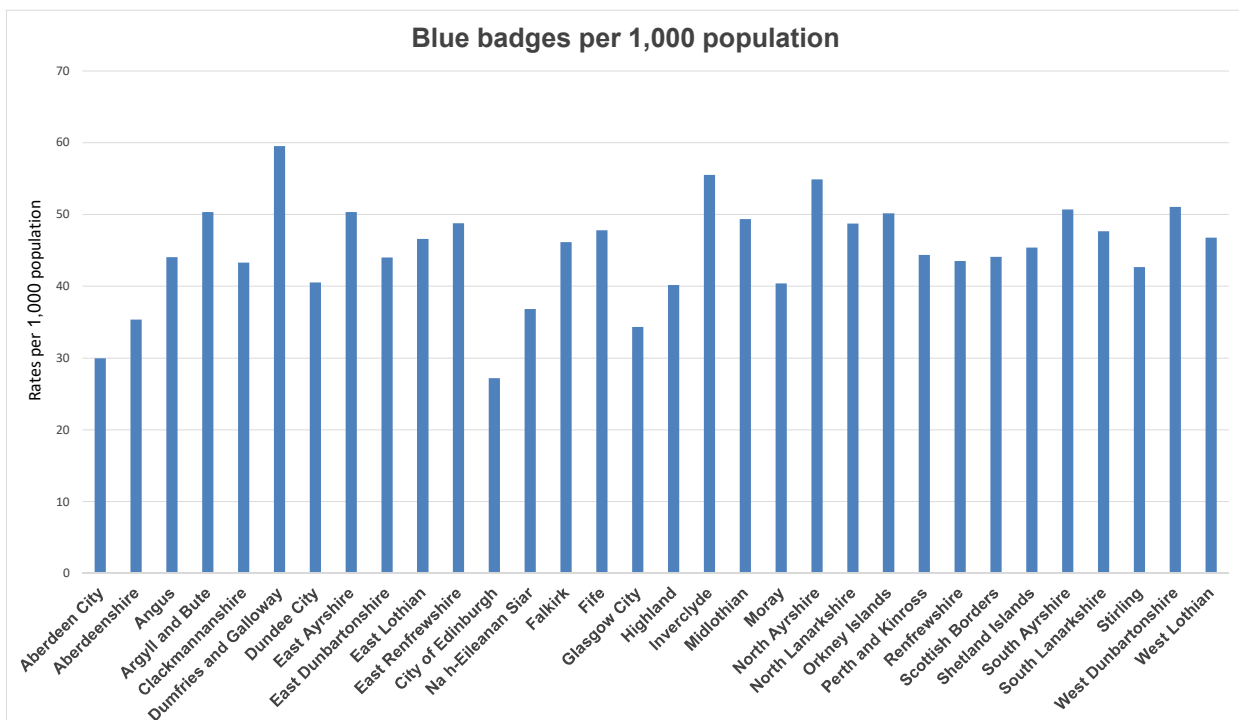
ROAD TRANSPORT VEHICLES

Table 1.21 Number of blue badges¹ on issue, time series and 2019 breakdown

Council	Badges on issue as at 31st March 2019:									Organisations	Individuals - Automatic ³	Individuals - Discretionary ⁴
	2012	2013	2014	2015	2016	2017	2018	2019				
Aberdeen City	8,032	7,887	5,183	6,552	6,643	6,908	6,863	6,820	102	3,263	3,455	
Aberdeenshire ⁵	13,358	12,166	8,155	10,685	10,210	9,838	9,604	9,252	135	4,692	4,425	
Angus	5,581	4,892	5,451	4,982	4,845	5,018	5,138	5,117	85	2,646	2,386	
Argyll & Bute	4,314	3,867	3,433	3,934	4,114	4,213	4,336	4,344	107	1,904	2,333	
Clackmannanshire	2,518	2,377	2,572	2,128	2,161	2,233	2,226	2,227	14	1,303	910	
Dumfries & Galloway	3,369	3,212	3,096	9,236	9,337	8,857	9,014	8,863	63	4,256	4,544	
Dundee City	6,766	5,776	5,252	5,292	5,452	5,619	5,916	6,033	90	3,198	2,745	
East Ayrshire	6,787	6,098	5,735	6,595	6,427	6,617	6,329	6,134	64	3,419	2,651	
East Dunbartonshire	5,175	2,905	4,847	4,473	4,661	4,730	4,794	4,772	63	1,978	2,731	
East Lothian	4,328	5,131	5,293	4,680	4,712	4,855	4,918	4,934	10	2,070	2,854	
East Renfrewshire	5,756	4,375	4,020	4,307	4,322	4,581	4,645	4,643	38	1,635	2,970	
Edinburgh, City of ¹⁰	23,470	17,502	16,922	15,264	14,868	14,444	14,396	14,107	335	6,340	7,432	
Eilean Siar	918	961	922	863	902	939	964	989	12	487	490	
Falkirk	8,108	8,256	7,332	6,877	6,899	7,104	7,254	7,404	69	3,817	3,518	
Fife	21,021	19,750	18,877	18,646	17,299	17,931	17,869	17,788	110	9,697	7,981	
Glasgow, City of ⁶	27,317	23,692	19,350	21,784	21,642	21,161	21,627	21,531	274	12,204	9,053	
Highland ⁷	12,967	9,938	10,855	9,164	9,215	9,371	9,521	9,470	108	4,391	4,971	
Inverclyde	5,183	5,099	4,955	4,439	4,283	4,282	4,367	4,341	91	2,002	2,248	
Midlothian	4,673	3,164	4,716	4,416	4,332	4,237	4,345	4,512	29	2,090	2,393	
Moray	4,485	4,033	3,687	3,608	3,669	3,699	3,825	3,863	10	1,897	1,956	
North Ayrshire	7,379	6,040	6,157	7,086	7,196	7,343	7,534	7,430	63	3,741	3,626	
North Lanarkshire	18,013	16,957	18,352	16,453	15,741	16,537	16,225	16,586	71	9,779	6,736	
Orkney Islands ⁸	1,281	1,108	1,050	1,119	1,096	1,100	1,100	1,114	29	442	643	
Perth & Kinross	6,169	5,975	6,814	6,542	6,651	6,831	6,779	6,714	121	2,587	4,006	
Renfrewshire	8,358	7,873	8,326	7,730	7,838	8,205	7,902	7,744	118	4,573	3,053	
Scottish Borders ⁹	6,987	6,456	5,980	4,961	4,889	5,062	5,161	5,086	39	2,187	2,860	
Shetland Islands	381	800	953	878	892	974	1,005	1,044	16	403	625	
South Ayrshire	6,356	5,212	5,475	5,537	5,703	5,785	5,806	5,707	72	2,688	2,947	
South Lanarkshire	15,274	15,602	15,826	16,218	16,218	15,796	15,488	15,221	88	8,373	6,760	
Stirling	4,273	4,374	4,082	3,918	3,892	3,859	4,027	4,028	45	1,747	2,236	
West Dunbartonshire	4,625	4,221	4,936	4,548	4,546	4,652	4,676	4,554	58	2,745	1,751	
West Lothian	9,823	9,529	9,615	8,912	8,873	8,641	8,880	8,526	121	5,238	3,167	
Total⁹	263,045	245,035	228,219	231,827	229,528	231,422	232,534	230,898	2,650	117,792	110,456	

Source: Scottish Government - Not National Statistics

- Blue Badges for display on motor vehicles used by disabled persons were introduced on 1 April 2000.
- Totals relate to the number of badges on issue as at 31st March that year. Data prior to 2008 not available.
- The automatic category includes badges issued to individuals in receipt of the higher rate mobility component of Disability Living Allowance, certain levels of Personal Independence Payment, a War Pensioners' Mobility Supplement, a lump sum (tariffs 1-8) of the Armed Forces Compensation Scheme, or to blind or registered blind people. (Not subject to further assessment.)
- Badges issued in the discretionary category to people with a substantial permanent or temporary disability who are unable or virtually unable to walk or pose a risk to themselves or others in traffic or who have difficulty using parking meters (Disabled Persons (Badges for Motor Vehicles) (Scotland) Regulations 2000 as amended). (May be subject to further assessment.)
- Aberdeenshire introduced an electronic data capture system in 2010; therefore figures may not be comparable with previous years.
- Glasgow changed data capture process in 2011; therefore figures may not be comparable with previous years.
- Highland Council, in April 2010, introduced a fee for the first time which may have contributed to the decline in number of badges issued.
- Orkney introduced an electronic system in 2009; therefore figures may not be comparable with previous years.
- Scottish Borders data was reviewed in 2012. Data is not available for previous years and is therefore excluded from the totals. Scottish Borders is included in the 2012 totals
- City of Edinburgh Council advised of error in 2013 total. Revised figure down from 27,309 to 17,502



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Table 1.22 Motor vehicle offences recorded by the police by type of offence

Discontinuities in the table

2013-14 is the first full reporting year since the establishment of Police Scotland. As a result, data is no longer returned by the eight legacy police force areas and instead comes from one central unit within Police Scotland, using their new performance management reporting tool. To ensure that the dataset produced from this new system is consistent with data returned from legacy police forces, an extensive quality assurance exercise has been carried out to closely compare the data held by the Scottish Government with that extracted from the new force system.

This exercise has identified a number of anomalies affecting comparability of the time series resulting in breaks in the series. Vertical lines between figures represent these breaks and comparisons should not be directly made between the two series. The Scottish Government is investigating these issues further and seeking a resolution. Should this be possible, the web tables on the Transport Scotland website will be updated with revised figures for the table below. Further information about these discontinuities can be found in the Technical report, entitled Recorded Crime: Comparability of Police Scotland and Legacy Force Data, available from <http://www.gov.scot/Topics/Statistics/Browse/Crime-Justice/PubRecordedCrime/TechnicalReport>

Type of offence	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19
Serious Driving Offences										
Dangerous driving	2,567	2,387	2,422	2,476	2,957	2,428	2,881	2,875	2,854	2,897
Careless driving	8,506	7,452	7,431	8,054	8,567	8,345	9,176	8,818	7,868	8,092
Drunk Driving of which:	8,504	7,563	7,445	6,433	6,079	5,218	5,458	5,917	5,863	5,847
<i>Driving while unfit through drink/drugs</i>	488	502	584	459	490	450	540	653	719	771
<i>In charge while unfit through drink/drugs</i>	78	59	63	52	92	54	71	123	137	148
<i>Driving with excess blood alcohol</i>	5,840	4,979	4,889	4,223	3,819	3,161	3,239	3,465	3,262	3,201
<i>In charge with excess blood alcohol</i>	471	484	433	445	419	390	364	331	333	333
<i>Failing to provide breath specimen at the roadside</i>	643	633	577	495	517	477	509	569	602	591
<i>Failing to provide breath, blood or urine specimen at a police station</i>	984	906	899	759	742	686	735	776	810	803
Failing to stop after accident	6,552	6,586	5,955	6,804	5,921	5,574	7,660	8,705	14,694	14,758
Driving while disqualified	2,048	1,640	1,466	1,311	1,208	898	1,162	1,371	1,414	1,285
Speeding Offences										
Speeding in restricted areas	50,788	50,890	53,068	62,188	38,400	29,316	23,145	13,395	10,685	10,371
Other speeding offences ^{2,3}	63,438	63,948	73,078	62,079	44,350	31,937	31,593	21,360	18,737	17,194
Signal and Direction Offences										
Traffic direction offences	31,281	34,195	31,786	34,404	26,539	16,307	11,253	5,981	4,496	4,133
Pedestrian crossing offences	4,137	3,944	4,317	4,537	3,776	2,268	1,644	1,181	869	785
Lighting, Construction and Use Offences										
Lighting offences ²	12,791	8,910	10,120	10,934	9,284	7,043	5,029	2,264	1,615	1,553
Construction and use regulations ²	13,452	12,271	12,681	11,884	11,639	8,550	8,041	6,121	5,434	5,554
Documentation Offences										
Vehicle excise licence offences ⁴	14,688	11,673	12,710	11,812	6,601	2,634	3,098	4,664	3,792	176
No test certificate ²	11,836	10,788	11,650	12,380	18,546	15,528	14,609	14,725	15,145	14,020
Driving licence offences ²	9,051	7,424	7,264	7,474	9,492	6,396	6,555	7,018	6,311	5,791
Third party insurance offences ²	20,610	17,860	17,407	17,228	18,998	13,747	14,407	16,806	15,945	14,349
Registration/identification offences	5,397	4,520	3,879	3,375	2,934	1,652	1,639	1,394	1,264	1,227
Other Offences										
Failure to provide information to identify driver ²	1,069	1,206	1,230	971	1,528	1,394	1,474	1,536	1,348	1,296
Tachograph etc offences	3,779	2,437	1,972	2,025	1,635	1,560	1,682	1,268	950	569
Seat belt offences ²	29,324	29,171	31,505	33,047	37,880	15,619	8,059	4,502	3,134	2,921
Mobile phone offences	26,146	27,736	29,110	30,875	35,764	17,978	10,085	6,709	3,173	2,895
Parking offences	332	171	177	158	143	105	163	99	76	78
Other offences	2,787	2,403	2,528	2,048	1,850	1,488	1,484	1,459	1,348	1,314
Total offences¹	329,083	315,175	329,201	332,497	294,091	195,985	170,297	138,168	127,015	117,105

Source: Recorded Crime, Scottish Government

Notes:

1. The full time series is no longer comparable, the vertical lines in the table represents the break in the series. Direct comparison between the period on either side of the break in the series should not be made. Further information can be found at: <http://www.scotland.gov.uk/Topics/Statistics/Browse/Crime-Justice/PubRecordedCrime/TechnicalReport>
2. A number of historic figures in these categories have been revised as a result of the quality assurance process noted above and will not match the figures presented in earlier editions of STS, further information can be found at the link in note 1.
3. Includes motorway and clearway offences, which previously appeared as a separate category under Other offences.
4. The number of Vehicle Excise Licence Offences recorded decreased from 3,792 in 2017-18 to 176 in 2018-19. This was largely due to standardisation of practice across Police Scotland divisions in November 2017, whereby the Driver and Vehicle Licensing Agency (rather than the police) took primacy in dealing with these offences.

Table 1.23 Households with a car or van available by gender, 2011

	percent of people in households			Total Number
	None	1	2+	(=100%)
All people in households:	23	40	37	5,196,386
Men	20	40	39	2,521,307
Women	25	40	35	2,675,079

Source: Scottish Census 2011, National Records of Scotland

Table 1.24 Households with a car or van available, 2011

	percent of households			Total Number
	None	1	2+	(=100%)
All households:	31	42	27	2,372,777
by selected household type:				
Single adult (aged under 65)	48	48	4	511,447
Married or cohabiting family with dependent children	8	36	56	409,369
Married or cohabiting family with no children	11	44	44	413,022
Single parent	43	45	12	263,360
All students	63	27	10	20,928
Single pensioner	64	35	1	311,867
by tenure:				
Owned outright	8	38	54	652,675
Owned with a mortgage or loan	6	38	56	1,585,110
Social rented (council)	49	38	13	372,920
Social rented (other)	53	37	10	317,812
Private rented (private landlord or letting agency)	41	40	18	421,264

Source: Scottish Census 2011, National Records of Scotland

Table 1.25 Households with a car or van available by disability and ethnicity, 2011

	percent of people in households			Total Number
	None	1	2+	(=100%)
All people in households:	23	40	37	5,196,386
by disability:				
Day-to-day activities limited a lot	46	40	14	472,795
Day-to-day activities limited a little	34	42	23	523,272
Day-to-day activities not limited	19	40	42	4,200,319
by ethnicity:				
White: Total	22	40	38	4,995,665
White: Scottish	22	40	38	4,382,131
White: Other British	16	41	43	403,604
White: Irish	27	40	33	52,086
White: Gypsy/Traveller	35	41	24	4,029
White: Polish	31	52	17	60,324
White: Other White	32	42	26	93,491
Mixed or multiple ethnic groups	26	42	32	19,068
Asian, Asian Scottish or Asian British: Total	27	38	35	133,506
Asian, Asian Scottish or Asian British: Pakistani, Pakistani Scottish or Pakistani British	16	36	48	48,968
Asian, Asian Scottish or Asian British: Indian, Indian Scottish or Indian British	29	38	33	31,442
Asian, Asian Scottish or Asian British: Bangladeshi, Bangladeshi Scottish or Bangladeshi British	32	41	27	3,710
Asian, Asian Scottish or Asian British: Chinese, Chinese Scottish or Chinese British	36	36	28	29,596
Asian, Asian Scottish or Asian British: Other Asian	36	44	19	19,790
African	51	36	13	28,170
Caribbean or Black	39	39	22	6,279
Other ethnic groups: Total	34	43	23	13,698
Other ethnic groups: Arab, Arab Scottish or Arab British	36	42	21	8,959
Other ethnic groups: Other Ethnic Group	31	43	25	4,739

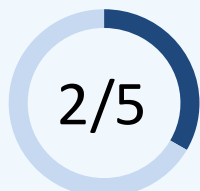
Source: Scottish Census 2011, National Records of Scotland

Chapter 2: Bus and Coach Travel

- Passenger journey numbers and vehicle-kilometres
- Passenger receipts
- Bus fare indices

380 million

journeys made by bus in 2018/19 in Scotland



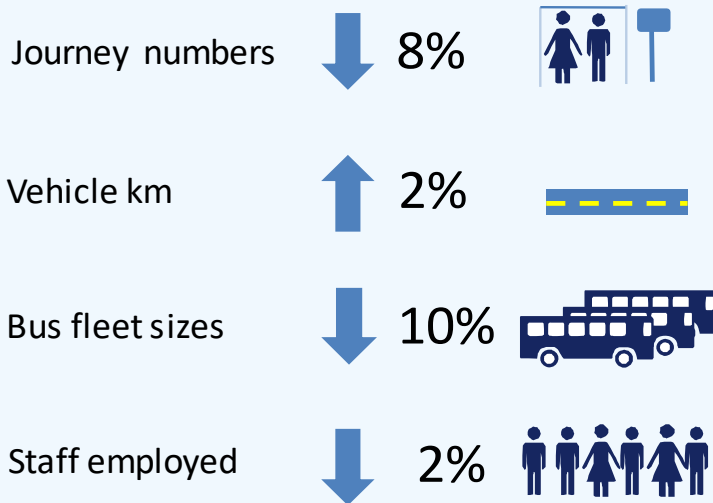
were made under the National Concessionary Travel Scheme

1.4 million people have National Concessionary Travel Scheme cards in Scotland



Bus use is changing in Scotland:

In the last five years:



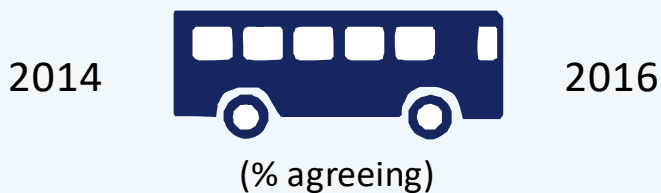
£694 million bus operator revenue in 2018/19 in Scotland

55% (£380m) from passenger revenue



45% (£314m) from Local or Central Government support

Passenger satisfaction has tended to increase in the last three years



94%	Feel safe on buses in the day	93%
78%	Buses are clean	79%
78%	Buses run to timetable	75%
69%	Feel safe on buses in the evening	70%
60%	Bus fares are good value	61%

Bus journey characteristics in 2018

Average bus journey length (straight line) **7km**



42% of people used a bus at least once a month

27% used a bus at least once a week

10% used a bus most days

For web publication and further information, visit http://bit.ly/STS_alliterations



BUS AND COACH TRAVEL

1. Introduction

1.1 This chapter provides information on bus and coach travel, such as the numbers of passenger journeys and vehicle-kilometres, passenger receipts and local bus fare indices, the numbers of vehicles of various types and the numbers of staff employed.

1.2 Estimates of passenger numbers, receipts and fares are based on a survey by the DfT and are therefore subject to sampling error. Figures from 2004-05 onwards are based on an improved methodology and may not be directly comparable with previous years. See the Notes and Definitions section, page 225.

Key points

- **380 million journeys were made by bus in 2018-19. Almost two fifths of these were made under the National Concessionary Travel Scheme.**
- **There were 1.4 million people with National Concessionary Travel cards in Scotland in 2019.**
- **The bus industry received £314 million in funding from local or central government in 2018-19. Passenger revenue in 2018-19 stood at £380 million in Scotland.**

2. Main Points

Vehicles and Passengers

2.1 Around 380 million passenger journeys were made by bus in Scotland in 2018-19. This is a decrease of 2.2 per cent on 2017-18 and a 22 per cent fall from a peak in 2007-08. Journeys under the National Concessionary Travel Scheme make up almost two fifths of this figure (38%). (*Table 2.2a*)

2.2 Although vehicle kilometres have risen by 1 per cent over the past five years, the distance covered fell in six of the last ten years. (*Table 2.3a*)

2.3 There is further evidence of contraction in the industry with the number of buses in operators' fleets falling by 11 per cent over the past five years, and a 3 per cent fall in the number of staff employed in the industry over the same period. (*Table 2.1a and 2.4*)

2.4 Although Great Britain as a whole, has seen passenger journeys fall by 8% over the past five years the fall for Scotland has been 10%. Great Britain vehicle kilometres fell by 7% compared to a 1% rise for Scotland. (*Table 2.3a*)

2.5 The picture of bus use in Scotland also contrasts with train travel in Scotland, which accounts for only a quarter of the passenger journeys made by bus but has seen steady increases in passenger numbers over the past few years. (*Table SGB1*)

2.6 Bus travel in the Southwest and Strathclyde and South East (corresponding to the Regional Transport Partnership areas of SPT, SWestrans (Dumfries and Galloway) and SEStran) accounts for 83 per cent of bus journeys in Scotland. (*Table 2.2b*)

2.7 Bus use is higher in urban areas and lower in rural areas. The Scottish Household Survey travel diary shows 56 per cent of those who used the bus the previous day lived in large urban areas compared to two per cent of users living in remote rural areas. (This compares to population estimates of 35% living in large urban areas and 6% living in remote rural areas.) These figures are supported by the results of the more general question on bus use included in the Transport and Travel in Scotland publication which shows 58 per cent of respondents in large urban areas had used the bus in the last month compared to 19 per cent of those in remote rural areas. (*Table 2.10*)

Operator revenue

2.8 Bus operators in Scotland received £694 million in revenue in 2018-19, an increase of 1 per cent on the previous year and a 5 per cent increase over the last 5 years. Adjusting for the effects of inflation total passenger revenue was 3 per cent less than 5 years ago. (*Table 2.8*)

2.9 Almost half (£314 million, 45%) of operator revenue came from local or central government: through concessionary travel reimbursement, Bus Service Operators Grant (BSOG) or supported services. Passenger revenue (i.e. ticket sales to non-concessionary passengers) accounted for around 55 per cent of operators' revenue (£380 million). Additional non-revenue support is excluded from these figures, specifically the Scottish Green Bus Fund and the Bus Investment Fund. (*Table 2.8*)

2.10 In real terms (adjusting for the effects of inflation), funding from local and national government is now 4 per cent lower than five years ago and overall passenger revenue is 3 per cent less than 5 years ago. When looking at these figures it is necessary to consider the passenger number figures in Table 2.2a and the fares data in Table 2.5. Passenger revenue over the last five years has not increased due to a 10 per cent decrease in passengers, although fares have increased by 9 per cent above general inflation over the same period. (*Table 2.8, 2.2a and 2.5*)

Fares

2.11 Bus fares in Scotland have increased by 9 per cent in real terms (adjusting for the effects of inflation) over the past five years, while the increase for Great Britain was 6 per cent. In current prices, i.e. viewing fare increases in the way that a consumer would, fares have risen by almost 17 per cent over the past five years. The increase in current prices is higher than in Great Britain as a whole which has seen an increase of 14 per cent over the last five years. (*Table 2.5*)

Operator costs

2.12 Although operating costs for bus operators rose to a peak in 2011-12 they have since fallen in the past few years. Over the past five years operating costs per vehicle km have decreased by 8 per cent in real terms. Operating costs per journey over the same 5 year period have risen by 3 per cent from £1.57 per passenger

journey to £1.61. Although the operating costs per vehicle km is lower than for the rest of GB (excluding London), operating costs per passenger journey remain higher in GB (£1.61 in Scotland, compared to £1.47 for GB excluding London). See also 'Other sources of data', as more detailed costs data is available from the Confederation of Passenger Transport. (*Table 2.6 and 2.7*)

Passenger Satisfaction

2.13 People were satisfied with most aspects of bus services that the Scottish Household Survey asked them about. (*Table 2.11*)

2.14 At least three quarters of respondents were satisfied with the extent to which buses ran to timetable; the cleanliness of buses; the ease of changing to other forms of transport; the ease of finding out route and timetable information; and the simplicity of deciding which ticket they need.

2.15 Respondents gave lower satisfaction scores for the extent to which buses were environmentally friendly (62%) and whether the fares were good value (61%).

2.16 Additionally there was a noticeable difference in those who felt safe on the bus during the day and in the evening. Ninety-three per cent of respondents agreed that they felt safe using the bus during the day compared to 70 per cent in the evening.

Concessionary Travel

2.17 The National Concessionary Travel Scheme for older and disabled people was rolled out across Scotland in April 2006. The scheme enables individuals aged 60+ or those with a disability (who meet certain criteria) to travel free on buses across Scotland. In some local authorities the card can be used on trains and ferries. There is also a scheme for young people, The Young Scot Card. Those aged 16-18, or full-time volunteers aged under 26 can use the card to get a third off adult single fares on bus services in Scotland, a third off rail travel and two free journeys to the mainland for islanders. 147,000 young people were eligible to access the travel concessions available through their Young Scot card in 2019. The young persons scheme is excluded from the analysis in paragraph 2.19 and 2.20 but is included in table 11.29. (*Table 2.13*)

2.18 Eighty eight per cent of young people (16-18) had a concessionary fare pass under the Scheme in 2019, and 92 per cent of those aged 60 or over had a pass. These proportions have changed little over the period since the introduction of the national scheme, though there has been a steady increase in pass holder numbers over the period. (*Table 2.12 and 2.13*)

2.19 The majority of pass holders (90%) in the older and disabled persons scheme hold a pass on the basis of age. Of those who have a pass for the disabled or visually impaired, 77% have a companion card which allows someone to travel with them on the bus. Card holder numbers by local authority are shown in Table 2.14. (*Table 2.13*)

2.20 Details of trips made on buses under the National Concessionary Travel Scheme are included in Table 2.2a. Further details of journeys made on all modes of

transport under the National Schemes and current and previous local schemes are shown in table 11.29. Bus journeys account for almost all (95%) of journeys made under the concessionary travel scheme. See the notes in Chapter 11 for more detail around what is included in this table.

Other sources of data (not National Statistics)

2.21 Some industry data are available, though as they are not produced by Government they are not National Statistics and do not comply with the Code of Practice for Official Statistics. They are included here as an alternative information source which may be of interest to readers.

2.22 The Confederation of Passenger Transport (CPT) publish a Cost Index on their website. This shows that wages, staffing and labour accounted for around 60% of operating costs, with fuel accounting for 16%. Total costs have been above inflation for the last few years.

2.23 The Office of the Traffic Commissioner are responsible for the licensing of the operators of buses and coaches and the registration of local bus services (routes). Statistics are published in the Traffic Commissioners' Annual Reports. There were 27 cases of action taken at public inquiry for non-compliance (under the Public Passenger Vehicles Act 1981) in Scotland in 2017-18, sixteen more than in 2016-17.

Figure 2.1 Vehicle stock by type of vehicle

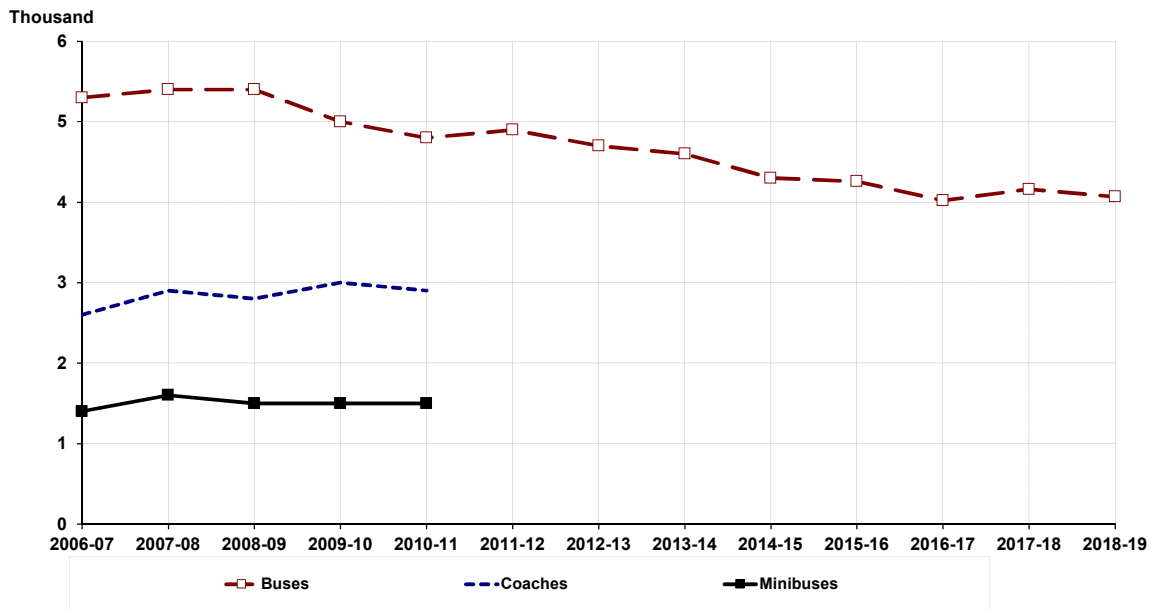
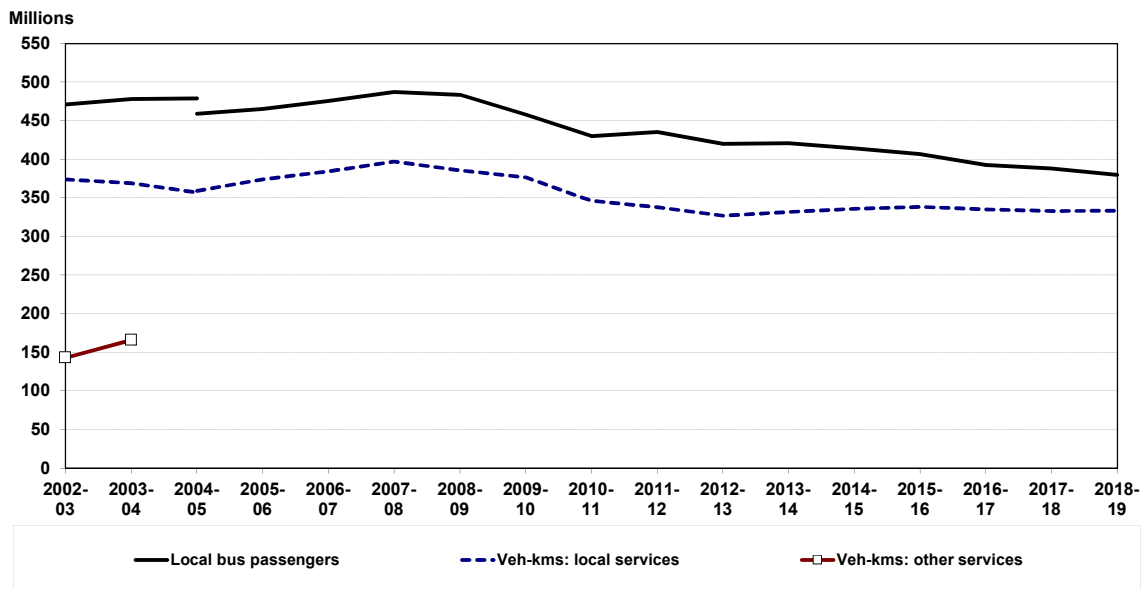


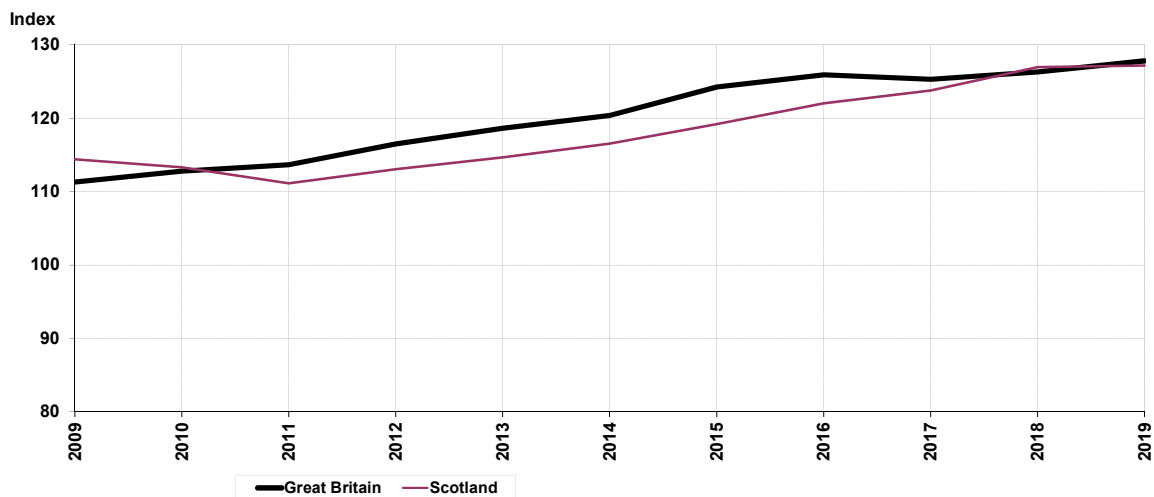
Figure 2.2 Passenger journeys (boardings) and vehicle-kilometres



Note: Figures prior to 2004/05 are not strictly comparable with previous years due to changes in the methodology.

Figure 2.3 Local bus fare indices

(constant prices, 2005=100)



BUS AND COACH TRAVEL

Table 2.1a: Public Service Vehicle characteristics (Local Operators)¹

	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	% change over	
											1 year	5 years
Number of buses used as Public Service Vehicles												
	<i>thousands</i>											
Scotland	5.0	4.8	4.8	4.6	4.6	4.3	4.3	4.0	4.2	4.1	-2	-11
Great Britain	42.7	42.4	42.3	42.0	42.1	41.7	40.7	40.3	40.1	39.4	-2	-6
Average age of the bus fleet												
Scotland	7.8	7.8	8.5	8.2	8.3	8.1	8.0	8.0	8.5	7.9	-6	-5
Great Britain	7.6	7.8	7.8	7.7	7.8	7.8	7.6	7.6	7.8	7.7	-1	-1
Percentage of buses with CCTV												
	%											
Scotland ³	52	54	58	65	67	72	78	82	90	90	-1	34
Great Britain	67	70	72	77	80	84	87	90	91	92	1	15
Percentage of bus fleet with automatic vehicle location (AVL) device												
	%											
Scotland	45	57	76	81	90	86	86	94	95	95	0	6
Great Britain	56	66	73	86	91	93	94	96	97	97	1	7
Percentage of buses with live ITSO smartcard readers												
	%											
Scotland	...	86	89	89	89	92	84	91	89	93	4	5
Great Britain (outwith London)	...	37	60	81	86	89	90	91	92	92	1	7
Percentage of buses with live EMV readers that can accept contactless payment cards⁴												
	%											
Scotland	...	...	...	...	...	...	...	4	42	61	46	..
Great Britain (outwith London)	...	...	...	...	...	...	...	38	62	73	18	..

Source: DfT Bus Statistics

¹ This table covers all operators who run local bus services, including those who also do non-local work (e.g. private hire, school contracts).

In previous years this table has also included operators who do solely non-local work. However, the Department for Transport no longer collects figures for these 'non-local' operators.

In previous years non-local operators have accounted for around 8% of the Public Service Vehicles in use. Figures presented here will be lower than those previously published by a corresponding margin.

² London buses (on local services) are equipped with non-ITSO (Oyster) smartcard readers.

³ Previous figures have been revised.

⁴ EMV stands for Europay, MasterCard, and Visa. Many credit and debit cards can now be used for contactless payments where card holders can pay for their bus fare by touching their card on a reader rather than typing in their pin number. Passengers may also use mobile phone apps such as Android Pay or Apple Pay. Excludes figures provided by a small number of operators whose vehicles were equipped but the readers were not live as at 31 March.

Table 2.1b: Number of disability accessible or low-floor buses used as Public Service Vehicles in Scotland (Local Operators)¹

	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	% change over	
											1 year	5 years
Buses with accessibility certificate²												
Number (thousands)	2.6	2.8	3.0	3.3	3.5	3.7	3.9	3.9	4.1	4.0	-1	16
Percentage of all buses	51	59	62	71	76	87	92	97	98	99		
Buses with low floor access³												
Number (thousands)	1.35	1.10	1.05	0.74	0.59	0.30	0.16	0.05	0.02	0.01	-23	-98
Percentage of all buses	27	23	22	16	13	7	4	1	0	0		
Total accessible or low floor buses												
Number (thousands)	3.9	3.9	4.0	4.0	4.1	4.0	4.1	3.9	4.1	4.0	-2	-2
Percentage of all buses	78	82	84	86	90	94	95	98	98	99		

Source: DfT Bus Statistics

¹ This table covers all operators who run local bus services, including those who also do non-local work (e.g. private hire, school contracts).

In previous years this table has also included operators who do solely non-local work. However, the Department for Transport no longer collects figures for these 'non-local' operators. In previous years non-local operators have accounted for around 8% of the Public Service Vehicles in use. Figures presented here will be lower than those previously published by a corresponding margin.

² Buses which have an Accessibility certificate issued under the Disability Discrimination Act PSV Accessibility Regulations 2000 (DDA PSVAR 2000 Certificate)

³ Buses which do not have a DDA PSVAR 2000 Certificate but which have low floor designs, suitable for wheelchair access

Table 2.2a: Passenger journeys on local bus services^{1,2}

	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	% change over		
	<i>million</i>												1 year	5 years	
Scotland	487	484	458	430	436	420	421	414	407	393	388	380		-2	-10
Great Britain	5,143	5,250	5,188	5,164	5,191	5,099	5,201	5,142	5,016	4,930	4,836	4,800		-1	-8
Of which concessionary passengers															
Scotland ^{3,4}	154	155	153	147	149	146	149	146	143	142	136	143		5	-4
Great Britain ⁵	1,643	1,740	1,772	1,772	1,803	1,764	1,794	1,759	1,714	1,693	1,639	1,643		0	-8
Percentage Concessionary passengers															
Scotland	32%	32%	33%	34%	34%	35%	35%	35%	35%	36%	35%	38%			
Great Britain	32%	33%	34%	34%	35%	35%	35%	34%	34%	34%	34%	34%			
Annual growth rates															
Scotland	2%	-1%	-5%	-6%	1%	-4%	0%	-2%	-2%	-5%	-1%	-2%			
Great Britain	5%	2%	-1%	0%	1%	-2%	2%	-1%	-2%	-4%	-2%	-1%			
Concessionary passengers															
Scotland	-1%	1%	-1%	-4%	2%	-2%	2%	-2%	-2%	-3%	-4%	5%			
Great Britain	...	6%	2%	0%	2%	-2%	2%	-2%	-3%	-4%	-3%	0%			

Source: DfT Bus Statistics

¹ There is a break in the series in 2004/05 due to changes in the estimation methodology.

² This table uses figures gathered through the Department for Transport's survey of PSV operators. Figures obtained from this source are revised as a matter of course and this table is likely to differ from previously published figures. Links to further information can be found on the Sources sheet.

³ Figures include a degree of estimation (e.g. allowances for claims not yet been processed) and may incur some small revisions to previously published data.

⁴ Administrative data collected by Transport Scotland in relation to the older and disabled persons scheme and the young persons scheme bus journeys. This is around 2-5% different from Scotland level estimates calculated from DfT survey data.

⁵ Estimated from DfT survey data; this will not be directly comparable with administrative data

Table 2.2b: Passenger journeys by region for local bus services^{1,2}

	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	% change over		
	<i>million passenger journeys</i>												1 year	5 years	
North East, Tayside and Central ³	68	66	64	61	63	61	62	63	59	58	55	53		-4	-14
Highlands, Islands and Shetland ⁴	14	14	14	14	13	14	13	12	13	12	11	10		-5	-18
South East ⁵	174	170	162	162	166	162	164	164	162	159	157	157		0	-4
South West and Strathclyde ⁶	232	234	219	193	194	184	182	175	172	166	165	159		-3	-13
Scotland	487	484	458	430	436	420	421	414	407	394	388	380		-2	-10

Source: DfT Bus Statistics

¹ Regional groupings have been dictated by commercial sensitivities around the disclosure of bus operators' financial information.

² This table uses figures gathered through the Department for Transport's survey of PSV operators. Figures obtained from this source are revised as a matter of course and this table is likely to differ from previously published figures. Links to further information can be found on the Sources sheet.

³ Perth and Kinross, Stirling, Aberdeen City, Aberdeenshire, Angus, Dundee City

⁴ Eilean Siar, Highland, Moray, Orkney Islands, Shetland Islands, Argyll & Bute

⁵ Clackmannanshire, East Lothian, Falkirk, Fife, Midlothian, Scottish Borders, Edinburgh City, West Lothian

⁶ Dumfries & Galloway, East Ayrshire, East Dunbartonshire, East Renfrewshire, Inverclyde, North Ayrshire, South Ayrshire, South Lanarkshire, Renfrewshire, West Dunbartonshire, Glasgow City, North Lanarkshire

Table 2.3a: Vehicle kilometres on local bus services by type of service^{1,2}

	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	% change over		
													1 year	5 years	
	<i>million vehicle kilometres</i>														
Scotland³	397	386	377	346	338	327	332	336	338	335	333	334		0	1
Commercial	315	311	302	279	278	263	266	266	275	266	264	273		3	3
Subsidised	82	75	74	67	60	64	65	70	63	70	69	60		-12	-7
<i>Subsidised % of total</i>	20.6%	19.3%	19.7%	19.3%	17.8%	19.7%	19.7%	21.0%	18.7%	20.8%	20.7%	18.1%			
Annual growth rate	3%	-3%	-2%	-8%	-2%	-3%	1%	1%	1%	0%	-1%	0%			
GB outwith London	2,185	2,176	2,141	2,109	2,072	2,043	2,035	2,013	1,971	1,937	1,871	1,859		-1	-9
Commercial	1,681	1,666	1,627	1,609	1,624	1,626	1,644	1,649	1,649	1,646	1,596	1,592		0	-3
Subsidised	504	510	514	501	447	417	391	364	321	291	274	267		-3	-32
<i>Subsidised % of total</i>	23.1%	23.4%	24.0%	23.7%	21.6%	20.4%	19.2%	18.1%	16.3%	15.0%	14.7%	14.4%			
Great Britain	2,649	2,650	2,620	2,591	2,557	2,529	2,522	2,496	2,457	2,425	2,359	2,336		-1	-7

Source: DfT Bus Statistics

¹ There is a break in the series in 2004/05 due to changes in the estimation methodology.

² This table uses figures gathered through the Department for Transport's survey of PSV operators. Figures obtained from this source are revised as a matter of course and this table is likely to differ from previously published figures. Links to further information can be found on the Sources sheet.

³ Commercial and subsidised totals may not match Scotland totals due to rounding.

Table 2.3b: Vehicle kilometres on local bus services per head of population^{1,2}

	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	% change over		
													1 year	5 years	
	<i>thousands</i>														
Population															
Scotland	5,144	5,169	5,194	5,222	5,255	5,314	5,328	5,348	5,373	5,405	5,425	5,438		0	2
Great Britain	59,227	59,263	60,003	60,462	61,426	61,881	62,276	62,756	65,110	63,786	64,169	64,554		1	4
	<i>vehicle km per head</i>														
Vehicle kilometres per head of population															
Scotland	77.2	74.6	72.5	66.3	64.3	61.5	62.3	62.9	63.0	62.0	61.4	61.3		0	-1
Great Britain	44.7	44.7	43.7	42.8	41.6	40.9	40.5	39.8	37.7	38.0	36.8	36.2		-2	-11
Ratio Scotland/GB	1.73	1.67	1.66	1.55	1.55	1.51	1.54	1.58	1.67	1.63	1.67	1.70		2	10

Source: DfT Bus Statistics

¹ There is a break in the series in 2004/05 due to changes in the estimation methodology.

² This table uses figures gathered through the Department for Transport's survey of PSV operators. Figures obtained from this source are revised as a matter of course and this table is likely to differ from previously published figures. Links to further information can be found on the Sources sheet.

Table 2.3c: Vehicle kilometres by region for local bus services^{1,2}

	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	% change over		
													1 year	5 years	
	<i>million vehicle kilometres</i>														
North East, Tayside & Central ³	51	55	58	55	55	54	56	57	56	54	56	52		-7	-6
Highlands, Islands & Shetland ⁴	32	27	38	37	33	33	32	40	39	35	32	35		7	8
South East ⁵	117	118	106	104	102	101	103	100	99	99	101	105		4	2
South West & Strathclyde ⁶	189	186	175	151	148	139	141	140	145	146	143	142		-1	1
Scotland	389	386	377	346	338	327	332	336	338	335	333	334		0	1

Source: DfT Bus Statistics

¹ Regional groupings have been dictated by commercial sensitivities around the disclosure of bus operators' financial information.

² This table uses figures gathered through the Department for Transport's survey of PSV operators. Figures obtained from this source are revised as a matter of course and this table is likely to differ from previously published figures. Links to further information can be found on the Sources sheet.

³ Perth and Kinross, Stirling, Aberdeen City, Aberdeenshire, Angus, Dundee City

⁴ Eilean Siar, Highland, Moray, Orkney Islands, Shetland Islands, Argyll & Bute

⁵ Clackmannanshire, East Lothian, Falkirk, Fife, Midlothian, Scottish Borders, Edinburgh City, West Lothian

⁶ Dumfries & Galloway, East Ayrshire, East Dunbartonshire, East Renfrewshire, Inverclyde, North Ayrshire, South Ayrshire, South Lanarkshire, Renfrewshire, West Dunbartonshire, Glasgow City, North Lanarkshire

Table 2.4 Staff employed^{1,2}

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	% change over	
												1 year	5 years
	<i>thousand</i>												
Platform staff ³	11.4	11.1	10.7	10.6	10.1	10.4	10.5	10.4	10.0	10.3	10.5	2	1
Maintenance and other staff ³													
Maintenance	2.2	2.4	2.2	2.3	2.2	2.2	2.1	2.2	1.8	1.9	1.8	-2	-16
Other	1.6	1.1	1.1	1.4	1.4	1.4	1.5	1.4	1.3	1.3	1.3	0	-7
Total	3.8	3.5	3.3	3.7	3.6	3.6	3.6	3.6	3.2	3.2	3.2	-1	-13
All staff	15.2	14.6	14.0	14.3	13.8	14.0	14.0	13.9	13.2	13.5	13.7	1	-3

Source: DfT Bus Statistics

- Figures relate to the financial year end.
- Figures for local operators only (including those doing some non-local work)
- Staff are classified according to their main occupation as some may have more than one function.
- Break in the series due to changes in the estimation methodology from 2004/05
- Previously published figures have been revised.

Table 2.5 Local bus fare indices¹

2005 = 100

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% change over	
												1 year	5 years
At current prices													
Scotland	126.5	129.5	132.2	139.1	145.1	149.8	153.2	157.6	163.6	171.9	175.5	2	17
Great Britain	123.1	129.0	135.2	143.4	150.1	154.7	159.7	162.6	165.6	171.0	176.3	3	14
At constant prices²													
Scotland	114.4	113.3	111.1	113.0	114.7	116.5	119.2	122.0	123.8	126.9	127.2	0	9
Great Britain	111.3	112.8	113.6	116.5	118.6	120.3	124.2	125.9	125.3	126.3	127.8	1	6

Source: DfT Bus Statistics

- Fares at March of each year
- Adjusted for general inflation, using the Retail Prices Index.

Table 2.6: Operating costs per vehicle kilometre for local bus services^{1,2}

	2004-05	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	% change over	
													1 year	5 years
At 2017-18 Prices (including depreciation)	<i>Pence per Vehicle Kilometre</i>													
Scotland	154	175	179	185	205	204	200	195	188	190	186	183	-1	-8
GB outwith London ³	165	192	197	197	205	205	206	207	208	207	207	205	-1	-1

Source: DfT Bus Statistics

- Adjusted for general inflation using the GDP market price deflator.
- This table uses figures gathered through the Department for Transport's survey of PSV operators. Figures obtained from this source are revised as a matter of course and this table is likely to differ from previously published figures. Links to further information can be found on the Sources sheet.
- Buses in London operate under a different regulatory model to the rest of the country, and comparisons on an operating costs basis between London and the rest of the country would have little meaning. London figures are therefore excluded from this table.

Table 2.7: Operating costs per passenger journey for local bus services^{1,2}

	2004-05	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	% change over	
													1 year	5 years
At 2017-18 Prices (including depreciation)	<i>Pence per passenger journey</i>													
Scotland	119	140	147	149	158	158	157	157	156	162	159	161	1	3
GB outwith London ³	126	138	143	143	148	151	150	150	151	149	149	147	-1	-2

Source: DfT Bus Statistics

- Adjusted for general inflation using the GDP market price deflator.
- This table uses figures gathered through the Department for Transport's survey of PSV operators. Figures obtained from this source are revised as a matter of course and this table is likely to differ from previously published figures. Links to further information can be found on the Sources sheet.
- Buses in London operate under a different regulatory model to the rest of the country, and comparisons on an operating costs basis between London and the rest of the country would have little meaning. London figures are therefore excluded from this table.

Table 2.8: Passenger revenue¹ on local bus services²

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	% change over 1 year 5 years	
<i>£ Million</i>													
Current prices													
Passenger revenue													
Scotland ^{5,6}	336	330	328	336	350	361	356	378	396	386	380	-1	5
Great Britain ⁶	3,069	3,156	3,299	3,439	3,575	3,701	3,744	3,747	3,688	3,691	3,735	1	1
Government support⁴													
Scotland	296	312	295	299	312 ⁵	300 ⁵	299	302	300	302	314	4	5
Total passenger revenue⁴													
Scotland	632	642	622	640	662 ⁵	661 ⁵	655	680	696	688	694	1	5
2017-18 Prices (Adjusted for general inflation using the GDP market price deflator.)													
Passenger revenue													
Scotland	398	385	376	380	388	391	380	401	411	393	380	-3	-3
Great Britain	3,636	3,678	3,780	3,881	3,953	4,014	4,005	3,974	3,821	3,761	3,735	-1	-7
Government support⁴													
Scotland	351	364	337	338	345 ⁵	325 ⁵	320	321	310	308	314	2	-4
Total passenger revenue⁴													
Scotland	749	749	713	717	732 ⁵	717 ⁵	700	722	721	701	694	-1	-3

Source: DfT Bus Statistics

1. Passenger fare receipts only include fare receipts retained by bus operators. On some tendered or supported services, fare receipts are passed to the local authority.

2. This table uses figures gathered through the Department for Transport's survey of PSV operators. Figures obtained from this source are revised as a matter of course and this table is likely to differ from previously published figures. Links to further information can be found on the Sources sheet.

3. Until 2003-04, receipts for local bus services include concessionary fare reimbursement from local authorities. From 2004-05 this only includes fare receipts retained by bus operators. On some tendered or supported services, fare receipts are passed to the local authority.

4. Government support includes Bus Service Operators Grant, Concessionary Bus Travel and Local Authority gross costs incurred in support of bus services. The National Concessionary Travel scheme was introduced in April 2006. Figures for Government support prior to this include all modes of concessionary travel so are not comparable with later years.

5. The figures for 2012/13 include an additional transitional assistance of £10 million for concessionary fares and £3 million for bus service operators grant towards the costs of bus operators by way of grant made under section 38 of the Transport (Scotland) Act 2001. Concessionary fares for 2013/14 also included transitional assistance of £1.7 million.

6. Figures for previous years have been revised.

Table 2.9: Government support on local bus services by type of support¹

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	% change over 1 year 5 years	
<i>£ Million</i>													
Current Prices													
Local Authority bus support²													
Scotland ¹¹	54	62	58	59	60	60	58	60	53	56	57	2	-5
Great Britain ⁸	1,342	1,318	1,145	1,084	1,038	1,094	1,072	1,071	1,120	1,133	1,058	-7	-3
GB outwith London ⁸	617	626	581	565	538	538	485	449	461	450	476	6	-12
Concessionary fares													
Scotland (bus) ³	180	187	175	181	199 ¹⁰	190 ¹⁰	190	189	194	195	202	4	6
Scotland (all modes)	193	202	183	188	204 ¹⁰	195 ¹⁰	198	196	196	197	205	4	5
Great Britain (bus) ^{5,6,8}	1,172	1,224	1,246	1,248	1,282	1,304	1,313	1,309	1,297	1,259	1,253	0	-4
GB outwith London (bus) ^{5,6,8}	991	1,041	1,055	1,038	1,062	1,070	1,074	1,071	1,068	1,040	1,035	-1	-3
Great Britain (all modes) ^{5,6,8}	1,185	1,239	1,254	1,254	1,284	1,306	1,321	1,316	1,299	1,261	1,256	0	-4
GB outwith London (all modes) ^{5,6,8}	1,004	1,056	1,063	1,045	1,064	1,072	1,082	1,078	1,070	1,042	1,038	0	-3
Bus Service Operators Grant⁷													
Scotland	63	64	63	60	53 ¹⁰	50	51	53	53	51	55 ¹³	8	10
Great Britain ¹²	504	515	505	512	415	348	..	..	..	..	..	..	..
GB outwith London ¹²	391	403	397	401	327	306	302	306	304	300	303	1	-1
All government support⁹													
Scotland (bus)	296	312	295	299	312 ¹⁰	300 ¹⁰	299	302	300	302	314	4	5
Scotland (all modes)	309	327	303	306	317 ¹⁰	305 ¹⁰	307	309	302	304	317	4	4
Great Britain (bus) ^{6,8,12}	3,017	3,056	2,896	2,843	2,739	2,735	2,687	2,686	2,721	2,692	2,614	-3	-4
GB outwith London (bus) ^{6,8,12}	1,998	2,069	2,033	2,004	1,929	1,907	1,919	1,887	1,885	1,846	1,870	1	-2
Great Britain (all modes) ^{6,8,12}	3,030	3,071	2,904	2,851	2,730	2,749	2,695	2,693	2,723	2,694	2,617	-3	-5
GB outwith London (all modes) ^{6,8,12}	2,011	2,084	2,041	2,011	1,920	1,921	1,869	1,833	1,835	1,793	1,816	1	-5
2017-18 Prices (Adjusted for general inflation using the GDP market price deflator)													
Local Authority bus support²													
Scotland	64	73	67	67	66	65	62	64	55	57	57	0	-13
Great Britain ⁸	1,589	1,536	1,312	1,224	1,148	1,186	1,147	1,136	1,160	1,154	1,058	-8	-11
GB outwith London ⁸	731	729	665	638	594	584	519	477	477	458	476	4	-19
Concessionary fares													
Scotland (bus) ³	213	218	201	204	220 ¹⁰	206 ¹⁰	203	201	201	199	202	2	-2
Scotland (all modes) ⁴	229	235	210	212	226 ¹⁰	212 ¹⁰	212	208	203	201	205	2	-3
Great Britain (bus) ^{5,6,8}	1,388	1,426	1,428	1,408	1,418	1,414	1,405	1,388	1,344	1,283	1,253	-2	-11
GB outwith London (bus) ^{5,6,8}	1,174	1,213	1,209	1,171	1,174	1,160	1,149	1,136	1,106	1,060	1,035	-2	-11
Great Britain (all modes) ^{5,6,8}	1,404	1,443	1,437	1,416	1,419	1,416	1,414	1,396	1,346	1,285	1,256	-2	-11
GB outwith London (all modes) ^{5,6,8}	1,189	1,230	1,218	1,179	1,176	1,162	1,158	1,143	1,108	1,062	1,038	-2	-11
Bus Service Operators Grant⁷													
Scotland	75	75	72	68	59 ¹⁰	54	55	56	55	52	55	6	1
Great Britain ¹²	597	600	578	578	458	378	..	..	..	..	..	..	..
GB outwith London ¹²	463	470	455	453	362	332	323	325	315	306	303	-1	-9
All government support⁹													
Scotland (bus)	351	364	337	338	345 ¹⁰	325 ¹⁰	320	321	310	308	314	2	-4
Scotland (all modes)	366	381	347	346	350 ¹⁰	331 ¹⁰	329	328	313	310	317	2	-4
Great Britain (bus) ^{6,8,12}	3,574	3,562	3,318	3,209	3,028	2,967	2,875	2,849	2,820	2,743	2,614	-5	..
GB outwith London (bus) ^{6,8,12}	2,367	2,411	2,329	2,262	2,132	2,068	2,053	2,001	1,954	1,881	1,870	-1	-10
Great Britain (all modes) ^{6,8,12}	3,590	3,579	3,327	3,217	3,019	2,982	2,883	2,856	2,822	2,745	2,617	-5	..
GB outwith London (all modes) ^{6,8,12}	2,383	2,429	2,338	2,270	2,123	2,084	2,000	1,945	1,901	1,827	1,816	-1	-13

¹ This table includes some figures gathered through the Department for Transport's survey of PSV operators. Figures obtained from this source are revised as a matter of course and this table is likely to differ from previously published figures. Links to further information can be found on the Sources sheet.

² Total of all local authorities' gross costs incurred in support of bus services, either directly or by subsidies to operators or individuals.

³ Figures refer to Transport Scotland spending on elderly, disabled and youth schemes. Prior to the centralisation of funding in 2006/07 it is not possible to split out spending on bus schemes alone. Small revisions have been made to the years 2012/13, 2013/14 and 2014/15.

⁴ Includes Local Authority spending.

⁵ GB figures cover the total of all local authorities' net costs of concessionary bus travel and include funding for taxi tokens as well as administration costs.

⁶ There is no information on concessionary spending for 'other' modes in England and Wales. Therefore, the only difference between the GB (bus) and GB (all modes) figures will be a result of the differences in the Scotland concessionary fares figures only.

⁷ Bus Service Operators Grant (BSOG) is a subsidy provided by Central Government to operators of local bus services.

⁸ Statistics for Concessionary Fare spend and Local Authority support for bus for England are published by Department for Communities and Local Government. Figures for Great Britain are calculated by combining the England, Wales and Scotland figures.

⁹ Totals exclude 'non-revenue' funding, specifically the Scottish Green Bus Fund and the Bus Investment Fund.

¹⁰ The figures for 2012/13 include an additional transitional assistance of £10 million for concessionary fares and £3 million for bus service operators grant towards the costs of bus operators by way of grant made under section 38 of the Transport (Scotland) Act 2001. Concessionary fares for 2013/14 also included transitional assistance of £1.7 million.

¹¹ Local Authority Transport Undertakings - Buses was added to the LFR 03 return in 2008/09. Data is not available for previous years and the total expenditure for 2007/08 is not comparable with later years.

To ensure comparability, historic figures have been revised to ensure they are presented on a consistent basis.

¹² BSOG in London now forms part of their public support grant (from October 2013).

¹³ The figure for 2018/19 includes £3.25m additional assistance towards overall industry operating costs, via grant made under section 38 of the Transport (Scotland) Act 2001.

Table 2.10: Bus use the previous day (adults) by characteristic¹

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
by gender:											
Male	41	44	40	41	41	43	47	45	40	41	42
Female	59	56	60	59	59	57	53	55	60	59	58
by age:											
16-19	14	11	15	13	14	14	12	12	12	13	11
20-29	20	23	17	20	19	20	21	21	18	21	17
30-39	9	15	12	14	13	12	15	13	12	11	15
40-49	12	12	14	12	12	12	13	13	11	12	12
50-59	14	12	11	12	12	13	11	13	12	13	12
60-69	12	12	14	12	15	13	13	13	18	14	16
70-79	13	10	13	11	10	11	10	11	12	13	12
80 and over	5	5	3	5	3	5	4	4	5	4	6
by current status:											
Self employed	1	1	1	2	2	2	0	1	2	1	2
Employed full time	34	33	27	34	28	29	31	32	30	30	33
Employed part time	10	10	10	11	14	13	12	12	11	10	11
Looking after the home or family	4	5	4	3	4	4	4	5	5	5	3
Permanently retired from work	26	24	27	24	25	25	23	23	26	25	27
Unemployed and seeking work	6	6	7	4	5	7	7	6	4	7	5
At school	4	3	6	4	7	4	5	3	7	6	3
In further/higher education	8	10	13	11	8	11	11	13	8	12	10
Government work or training scheme	0	1	0	0	1	1	0	0	0	0	1
Permanently sick or disabled	4	5	4	6	5	4	4	4	4	4	5
Unable to work because of short-term illness or injury	1	1	1	0	1	1	1	1	1	0	0
by journey purpose²:											
Commuting	28	29	27	28	29	28	25	24	29	29	28
Education	8	8	10	13	8	9	11	10	10	11	8
Shopping	28	25	28	21	25	24	28	29	26	29	30
Visit hospital or other health	5	4	4	3	4	2	3	2	4	2	3
On other personal business	5	8	4	7	4	6	4	4	3	2	6
Visiting friends or relatives	10	9	8	11	10	11	7	9	9	9	6
Sport/entertainment	5	7	8	8	4	4	4	5	4	4	4
Go home	3	4	2	4	9	9	8	9	8	7	7
Other purpose	8	7	9	7	7	7	9	7	6	6	7
by annual net household income:											
up to £10,000 p.a.	21	21	20	22	15	13	16	14	12	12	12
£10,000 - £15,000	24	24	23	23	23	25	21	19	21	24	20
£15,000 - £20,000	16	13	18	18	17	16	17	20	18	15	21
£20,000 - £25,000	12	10	13	13	14	13	12	13	14	13	13
£25,000 - £30,000	7	11	6	7	12	9	10	9	9	11	7
£30,000 - £40,000	12	13	9	9	10	14	10	12	13	12	12
over £40,000 p.a.	8	7	12	8	9	11	14	14	13	14	15
by urban/rural classification:											
Large urban areas	61	61	57	60	59	60	56	54	53	54	56
Other urban	24	23	26	23	24	25	24	31	31	29	27
Small accessible towns	7	6	6	6	5	7	8	5	6	8	5
Small remote towns	1	1	1	2	3	1	2	1	1	1	2
Accessible rural	5	7	8	7	6	5	7	7	7	5	9
Remote rural	2	2	2	3	3	2	3	2	2	3	2
by frequency of driving:											
Every day	5	7	6	7	8	7	7	6	7	6	6
At least three times a week	7	5	5	6	7	5	6	7	7	6	7
Once or twice a week	6	5	5	7	5	5	6	4	6	4	4
Less often	4	5	4	5	2	4	6	4	5	4	4
Never, but holds full driving licence	7	10	7	9	10	9	9	7	8	9	10
Does not hold a full driving licence	70	69	73	67	67	70	66	71	67	72	68
by whether or not respondent has concessionary travel pass³:											
Yes	32	33	33	33	33	31	32	32	38	34	...
No	68	67	67	67	67	69	68	68	62	66	...
Sample size (=100%)	1,930	1,640	1,440	1,580	1,540	1,720	1,650	1,730	1,470	1,470	1,520

Source: Scottish Household Survey

* This table has been amended from previous publications to ensure the method of calculation is consistent with other transport tables using

Scottish Household Survey data. Percentages are slightly modified.

1. The concessionary travel pass question was not asked in 2018, but will be asked again in 2019 and alternate years.

2. For concessionary travel pass, sample size in 2003 was 1,983 as this data was not collected in quarter 1; sample size in 2006 was 2,120 as a new concessionary scheme was introduced in April 2006.

3. Prior to 2007 only journeys over 1/4 mile were recorded. Since 2007 all journeys are recorded. This creates a discontinuity in the time series between 2006 and 2007.

4. From 2007 onwards, two new categories, 'Go home' and 'Just go for a walk', were added. 'Go home' has been separated out in this table but 'Just go for a walk' has not as these are largely going to be walking (only) journeys.

TABLE 2.11: Users views on local bus services^{1,3,5}

	2007	2008	2009	2010	2011	2012	2014	2016
Percentage agreeing with each statement								
Buses run to timetable ²	71	73	73	73	73	74	78	75
Buses are frequent	77	79	80	80	79			
Service runs when I need it	71	74	75	74	74			
Journey times are reasonable					85			
Bus service is stable and not regularly changing	80	80	79	80		78	83	80
Buses are clean	72	75	75	75		80	78	79
Buses are comfortable	73	74	77	78				
Buses are environmentally friendly						56	66	62
I feel personally safe and secure ⁴	80	81						
Feel safe/secure on bus during day ⁴			91	91	94	93	94	93
Feel safe/secure on bus during the evening ⁴			58	59	63	62	69	70
Simple deciding what ticket I need	87	87	86	88	89	89	89	88
Finding out about routes and times is easy	77	79	81	81	82	84	86	83
Easy to change from buses to other forms of transport	69	71	71	73	76	75	75	76
Bus fares are good value	63	58	57	59	59	55	60	61
Sample Size	2,697	2,846	2,902	2,833	2,984	4,068	4,070	3,910

Source: Scottish Household Survey

¹ SHS data. Question asked of adults (16+), who have used the bus in the previous month.

² Prior to 2012, question asked 'buses are on time'.

³ Changes to the questionnaire have been made between years so some response options are removed and new ones added.

⁴ The question about feeling safe and secure on the bus was split in 2009 to ask about during the day and in the evening.

⁵ This question was last asked in 2016. It will be asked again in alternate years from 2019.

Table 2.12: Possession of concessionary fare pass¹ for all adults aged 16+²

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
											<i>cell percentages</i>
All adults aged 16+	28	25	26	27	27	27	26	27	28	29	28
All adults aged 60+	82	84	87	87	87	88	86	87	87	87	87
Age band											
16 - 39	1	1	2	1	2	2	1	2	2	3	1
40 - 49	2	2	4	3	3	3	3	3	3	4	3
50 - 59	5	4	6	6	5	5	4	5	6	5	5
60 - 64	75	75	78	79	80	81	75	75	74	75	74
65 - 69	83	88	89	90	88	91	90	91	90	90	89
70 - 74	85	89	92	91	93	92	92	91	93	93	91
75 - 79	86	89	92	93	91	94	90	93	92	93	93
80 +	81	85	87	87	90	88	89	91	90	90	90

Source: Scottish Household Survey

1. The question started thus: "do you have a concessionary travel pass which allows you to travel free of charge ..."

The remainder of the question depended upon the national minimum concessionary fare arrangements that applied at the time.

- From April 2003 to March 2006, the question concluded: "... on off-peak local bus services"

- From April 2006, the question concluded: "... on scheduled bus services"

** Figures for 2006 relate to the period from April to December, as new concessionary fare arrangements were introduced in April 2006.

2. This question was not asked in 2018. It will be asked again in 2019.

Table 2.13: Concessionary fare passes issued to older and disabled people, 2012-2019 ^{1,2,3}

	2012	2013 ⁴	2014	2015	2016	2017	2018	2019
Card type								
60+	1,074,616	1,141,214	1,142,923	1,170,709	1,146,751	1,156,063	1,203,751	1,256,531
Disabled	61,660	43,979	44,381	43,590	41,348	39,384	37,228	37,268
Disabled + companion	109,680	93,619	96,253	106,078	111,486	118,217	123,786	129,308
Visually impaired	4,751	4,188	4,092	4,041	3,921	3,826	3,787	3,852
Visually impaired + companion	11,554	10,223	10,102	10,099	9,745	9,592	9,546	9,658
All cards	1,262,261	1,293,223	1,297,751	1,334,517	1,313,251	1,327,082	1,378,098	1,436,617
Young persons scheme (16-18)		131,210	152,626	152,473	151,767	149,790	147,410	147,326

Source: Transport Scotland

¹As at October in each year, with the exception of 2009 where the figure is as at February.

²Figures for 2007 and 2008 should be interpreted with caution, due to possible double-counting in one local authority

³This table displays changes over time at a national level. For the most up to date figures at national and local authority level consult table 23.

⁴ The new supplier of the National Entitlement Card programme is able to provide a more detailed split of card holder eligibility than Transport Scotland received previously. As well as being able to better identify eligibility, the new reports also identify duplicate cards ie where a customer has a card due to expire at the end of the month and a replacement has been issued, so these can now be excluded from the totals. These changes mean that data for 2013 onwards is not directly comparable with earlier years. Figures for Young Scot disability cards were mistakenly excluded from the figures for 2013. The figures have

Table 2.14: Concessionary fare passes issued to older and disabled people. As at November 2019 ¹

	Disabled	Disabled + companion	Visually impaired	Visually impaired + companion	60+	All card holders
All Scotland						
Aberdeen City	2,026	4,039	254	259	45,556	52,134
Aberdeenshire	1,461	2,955	236	348	59,725	64,725
Angus	892	2,003	83	144	31,141	34,263
Argyll and Bute	488	1,672	56	186	27,644	30,046
Clackmannanshire	342	1,021	22	68	11,594	13,047
Comhairle Nan Eilean Siar	104	272	10	21	8,115	8,522
Dumfries and Galloway	742	2,755	92	220	41,092	44,901
Dundee City	1,162	5,256	146	334	32,591	39,489
East Ayrshire	915	3,615	75	256	28,538	33,399
East Dunbartonshire	472	1,530	72	156	30,029	32,259
East Lothian	789	1,782	60	145	26,928	29,704
East Renfrewshire	397	1,366	67	135	23,220	25,185
Edinburgh	4,559	10,929	249	662	111,176	127,575
Falkirk	1,112	3,352	106	245	34,588	39,403
Fife	2,175	11,314	355	721	91,574	106,139
Glasgow	6,228	23,973	366	1,331	107,898	139,796
Highland	1,289	3,955	57	400	60,742	66,443
Inverclyde	488	3,135	72	243	19,907	23,845
Midlothian	585	2,308	37	141	21,624	24,695
Moray	544	1,376	83	140	23,391	25,534
North Ayrshire	837	3,869	134	408	37,475	42,723
North Lanarkshire	2,068	8,558	175	656	69,617	81,074
Orkney Islands	108	563	3	33	6,177	6,884
Perth and Kinross	699	2,589	192	296	39,210	42,986
Renfrewshire	1,290	4,525	141	400	41,696	48,052
Scottish Borders	763	1,590	108	182	31,535	34,178
Shetland Islands	166	526	6	21	5,839	6,558
South Ayrshire	683	2,772	102	261	33,845	37,663
South Lanarkshire	1,696	7,397	288	678	75,455	85,514
Stirling	495	1,444	74	118	20,223	22,354
West Dunbartonshire	773	2,772	68	175	21,431	25,219
West Lothian	920	4,095	63	275	36,955	42,308

Source: Transport Scotland

¹ This table provides the most up to date figure for the number of concessionary passes on issue at local authority and national level. Table 2.13 displays changes over time at a national level.

Chapter 3: Road Freight

- Road freight lifted by UK-registered HGVs
- Weight of goods lifted in Scotland
- Lengths of haul
- Destinations within the UK and Europe
- Types of commodity lifted

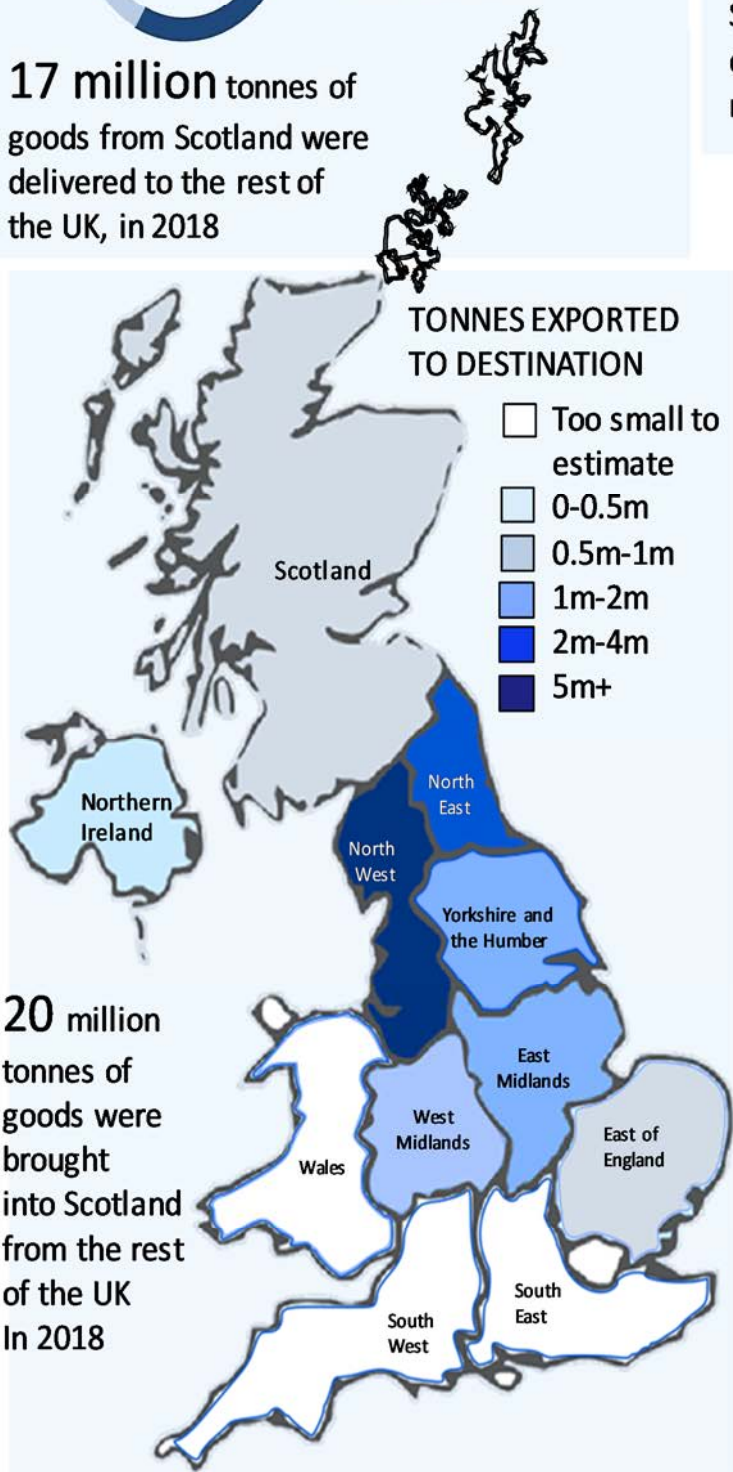
14.6 billion

Tonne-kilometres of freight originating in Scotland was transported to all destinations in 2018



(8.9 billion tonne-km) remained within Scotland

17 million tonnes of goods from Scotland were delivered to the rest of the UK, in 2018



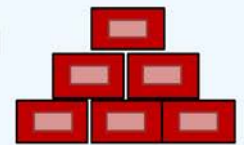
20 million tonnes of goods were brought into Scotland from the rest of the UK In 2018

111.4 million tonnes



of goods were lifted in Scotland with a destination in Scotland in 2018

The most common type of freight lifted in Scotland and remaining in Scotland in 2018 was metal ore and other mining and quarrying – 16 million tonnes



The volume of Scottish international (non-UK) road freight is small – less than 1 million tonnes entering and leaving in 2018

195 thousand tonnes of goods left Scotland by road for non-UK countries in 2018



went to France



went to the Germany

133 thousand tonnes of goods entered Scotland by road from non-UK countries in 2018

For web publication and further information, visit http://bit.ly/STS_all Editions



ROAD FREIGHT

1. Introduction

1.1 This chapter provides information about road freight lifted by UK-registered heavy goods vehicles (HGVs: over 3.5 tonnes gross weight), such as the weight of goods lifted in Scotland by origin and destination, the lengths of haul, the destinations within the UK and Europe, and the types of commodity lifted.

1.2 A change in methodology by the Department for Transport (DfT) in 2003 Continuous Survey of Road Goods Transport has resulted in a discontinuity in the series. Therefore road freight transported *within* the UK from 2004 onwards is not comparable with earlier years. Revisions have also been made to figures for the years 2011 to 2016.

2. Main Points

Good Lifted and Distance

2.1 In 2018, an estimated 111.4 million tonnes of goods were lifted within Scotland by UK HGVs and transported to destinations within Scotland. About 17 million tonnes of goods from Scotland were delivered to destinations elsewhere in the UK, and around 20 million tonnes were brought into Scotland from elsewhere in the UK. In comparison, the volume of international road freight by UK HGVs travelling to and from Scotland is very small: less than 1 million tonnes in 2018. (*Table 3.1*)

2.2 Most road freight journeys are 100 kilometres or less in length: 20% of tonnes lifted by road in Scotland in 2018 were carried a distance of no more than 25 kilometres, and 23% travelled over 50 km but no more than 100 km. The average journey distance, which is calculated by dividing the total tonne-kilometres by the total tonnes lifted, was 112 km. (*Table 3.2*)

Originating in Scotland

2.3 Goods moved on journeys originating in Scotland with a destination in Scotland accounted for around 8.9 billion tonne-kilometres in 2018. The overall total, including journeys with destinations elsewhere in the UK and abroad, was around 14.6 billion tonne-kms, an increase of 11% on 2017. (*Table 3.3*)

Entering Scotland

2.4 In 2018, 20 million tonnes of goods entered Scotland on UK HGVs from the rest of the UK. 98% of these came from England. Around 70 per cent of the goods entering came from the North West (39%), Yorkshire and Humber (14%) and North East (16%) regions of England. Fewer goods leave Scotland for other UK countries (17 million tonnes) than enter from them but the proportions going to and coming from different areas are similar (*Table 3.6*).

2.5 In 2018, 'food products including beverages and tobacco' was the largest single category of goods lifted in Scotland, which remained in Scotland, accounting for 20.4 million tonnes out of the total of 111.4 million tonnes. (*Table 3.4*)

Destination

2.6 In 2018, UK-registered HGVs carried an estimated 179 thousand tonnes of goods from Scotland to countries outwith the UK, and 131 thousand tonnes from foreign countries into Scotland. Of goods leaving Scotland for abroad, carried by UK road hauliers, 44% went to France and 10% to Germany. (*Table 3.7*)

2.7 In 2018, around 3% of goods leaving the UK lifted by UK HGVs originated in Scotland. (*Table 3.5*)

2.8 Generally in the period from 2014 to 2018, goods transported by UK-registered HGVs within Scotland were on journeys that started and finished within the same region. The Strathclyde Partnership for Transport (SPT) was the most active in terms of tonnage entering and leaving. There were 96 million tonnes on journeys within Scotland and 31 million of these were on journeys beginning in the SPT area (*Table 3.8*).

Fig. 3.1 Goods lifted by road; entering and leaving Scotland to or from rest of GB, 2018

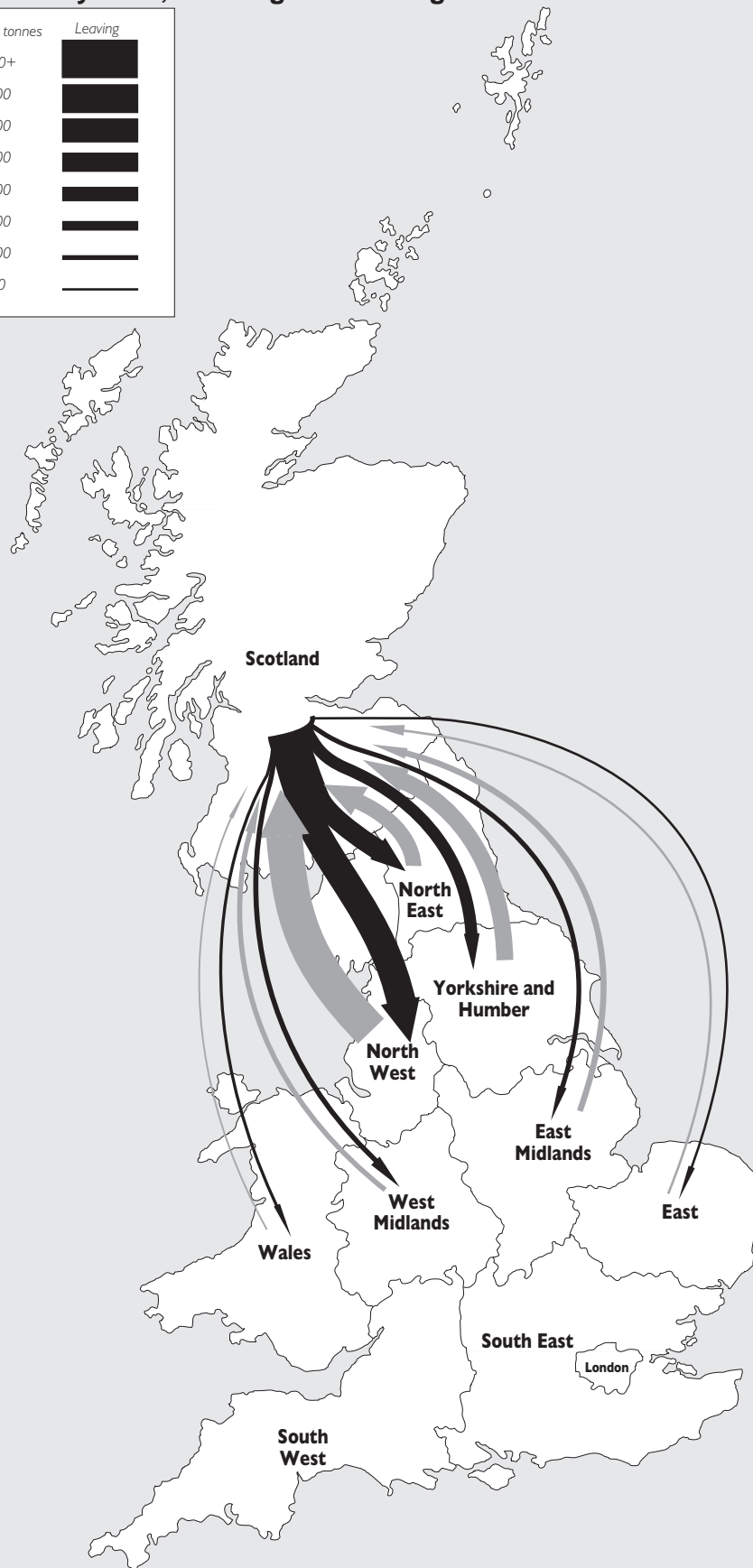
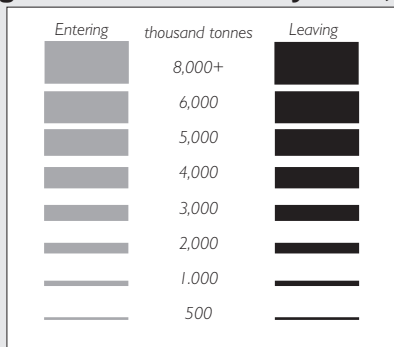


Table 3.1 Goods lifted by UK HGVs by origin and destination of journey ²

	2008	2009	2010	2011 ³	2012 ³	2013 ³	2014 ³	2015 ³	2016 ³	2017	2018
<i>million tonnes</i>											
a) On journeys originating in Scotland											
<i>by destination:</i>											
Scotland	144.2	118.8	116.8	121.0	123.5	111.8	109.1	115.8	123.6	107.6	111.4
Elsewhere in UK											
England	11.4	12.2	13.9	12.8	12.4	12.6	13.3	15.8	15.7	14.0	16.5
Wales	0.6	*	0.8	*	*	*	*	*	*	0.6	*
Northern Ireland	0.3	0.2	0.1	*	0.7	0.2	0.1	0.5	0.4	0.2	0.2
Total elsewhere in UK	12.3	12.6	14.8	13.5	13.5	13.0	13.5	16.7	16.2	14.8	17.0
Outwith UK ¹	0.5	0.5	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
Total	157.0	131.9	131.9	134.8	137.2	125.0	122.9	132.7	139.9	122.6	128.6
b) On journeys with Scottish destinations											
<i>by origin of journey:</i>											
Scotland	144.2	118.8	116.8	121.0	123.5	111.8	109.1	115.8	123.6	107.6	111.4
Elsewhere in UK											
England	17.1	15.5	17.3	16.8	18.8	15.8	17.7	19.7	18.9	18.2	19.4
Wales	0.3	*	0.4	*	*	*	*	*	*	*	*
Northern Ireland	0.3	0.4	0.2	0.3	0.5	*	0.2	0.5	0.2	*	0.3
Total elsewhere in UK	17.7	16.0	17.9	17.5	19.6	16.2	18.2	20.3	19.3	19.0	19.8
Outwith UK ¹	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
Total	162.2	134.9	134.9	138.5	143.2	128.1	127.4	136.2	143.0	126.7	131.3

Source: DfT Road Freight Statistics

1. The 'Outwith UK' figures include an element of doublecounting as figures include both the domestic and international legs of the journey.

2. Due to changes in the methodology and processing system used by the Department for Transport, 2004 and post-2004 figures are not comparable with pre-2004 figures.

These figures include goods lifted by Northern Irish-based HGVs, so are slightly higher than those appearing in DfT's Road Freight Statistics.

3. Figures from 2011 to 2016 were revised in 2018.

* = Sample too small for a reliable estimate

Table 3.2 Goods lifted by UK HGVs in Scotland, with destinations within the UK, by length of haul, 2018

	>0- 25	>25- 50	>50- 100	>100- 150	>150- 200	>200- 300	>300- 400	>400- 500	>500	All
Tonnes										
<i>millions</i>	26.3	27.4	29.6	12.7	8.8	11.9	6.7	2.5	2.4	128.4
<i>percentage</i>	20	21	23	10	7	9	5	2	2	100
Tonne-kilometres										
<i>millions</i>	368	992	2,123	1,564	1,525	2,925	2,297	1,134	1,467	14,394
<i>percentage</i>	3	7	15	11	11	20	16	8	10	100

Source: DfT Road Freight Statistics

Table 3.3 Goods moved by UK HGVs by destination, and the economy's road freight intensity

	2008	2009	2010	2011 ²	2012 ²	2013 ²	2014 ²	2015 ²	2016 ²	2017	2018
<i>million tonne-kilometres</i>											
a) On journeys originating in Scotland											
<i>by destination:</i>											
Scotland	8,321	6,788	7,173	8,065	7,704	7,266	7,226	7,708	9,382	7,722	8,873
Elsewhere in UK											
England	4,208	4,199	4,708	4,068	3,841	4,223	4,470	5,394	5,165	4,927	5,344
Wales	273	*	351	*	*	*	*	*	*	231	*
Northern Ireland	49	30	18	*	130	25	36	64	73	42	39
Total elsewhere in UK	4,530	4,345	5,077	4,377	4,176	4,333	4,551	5,676	5,276	5,201	5,521
Outwith UK ²	533	519	445	370	358	306	280	250	225	208	241
Total	13,384	11,652	12,695	12,813	12,239	11,906	12,056	13,634	14,883	13,130	14,635
b) On journeys with Scottish destinations											
<i>by origin of journey:</i>											
Scotland	8,321	6,788	7,173	8,065	7,704	7,266	7,226	7,708	9,382	7,722	8,873
Elsewhere in UK											
England	5,801	5,393	5,888	5,347	5,551	5,376	6,010	6,601	6,489	6,103	6,610
Wales	201	*	212	*	*	*	*	*	*	*	*
Northern Ireland	77	32	32	65	101	*	58	101	47	41	46
Total elsewhere in UK	6,080	5,460	6,132	5,563	5,835	5,525	6,191	6,788	6,628	6,415	6,690
Outwith UK ²	233	176	170	119	126	124	105	196	134	144	125
Total	14,634	12,424	13,475	13,747	13,666	12,915	13,522	14,691	16,144	14,281	15,689
c) The road freight intensity of the Scottish economy - an index of the ratio of the index of road freight tonne-kilometres to the index of Gross Domestic Product											
Road freight moved by UK HGVs on journeys originating in Scotland	<i>million tonne-kilometres</i>										
volume	13,384	11,652	12,695	12,813	12,239	11,906	12,056	13,634	14,883	13,130	14,635
Index: 2008 = 100	100.0	77.9	84.9	85.7	81.9	79.6	80.6	91.2	99.6	87.8	97.9
Scottish Gross Domestic Product (Gross Value Added for all industries) ¹											
Index: 2008=100	100.0	97.6	98.5	99.4	99.6	101.7	103.7	104.3	104.8	106.3	107.7
Road freight intensity											
Index: 2008 = 100	100.0	79.8	86.2	86.2	82.2	78.3	77.8	87.4	95.0	82.6	90.9

Source: DfT Road Freight Statistics

1. Scottish GDP figures are as published **20 March 2018**.

These figures include goods lifted by Northern Irish-based HGVs, so are slightly higher than those appearing in DfT's Road Freight Statistics.

2. Figures from 2011 to 2016 were revised in 2018.

* = Sample too small for a reliable estimate

Note: GDP figures available table 5 here <http://www.scotland.gov.uk/Topics/Statistics/Browse/Economy/GDP/Findings>

Note: discontinuities in the series (denoted by lines) are described in detail within the methodology note; comparisons across years where methodological changes have occurred should be treated with caution.

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/405241/road-freight-statistics-methodology-note.pdf

Table 3.4 Goods lifted / moved by UK HGVs, for journeys within the UK with a Scottish origin or destination, by commodity, 2018

	Goods remaining in Scotland	Goods entering Scotland from rest of UK	Goods leaving Scotland for rest of UK
			<i>thousand tonnes</i>
Products of agriculture, forestry, raw materials			
Agricultural products	14,731	2,574	2,870
Coal and lignite	*	*	*
Metal ore and other mining and quarrying	16,088	*	*
Subtotal	31,030	3,027	3,663
Food products, including beverages and tobacco			
Food products	20,378	6,261	5,122
Textile, leather and wood products			
Textiles and textile products; leather and leather products	517	335	*
Wood products	4,709	1,003	967
Subtotal	5,226	1,338	990
Metal, mineral and chemical products			
Coke and refined petroleum products	4,697	*	*
Chemical products	3,516	1,229	*
Glass, cement and other non-metallic mineral products	7,715	1,602	*
Metal products	1,732	350	*
Subtotal	17,660	3,311	2,060
Machinery and equipment, consumer durables			
Machinery and equipment	4,235	*	*
Transport equipment	1,271	634	601
Furniture	267	*	*
Subtotal	5,773	1,103	1,034
Other products			
Waste related products	10,539	*	1,019
Mail, parcels	2,914	1,560	1,131
Empty containers, pallets and other packaging	2,149	288	409
Household and office removals	2,931	*	*
Grouped goods	11,343	1,723	977
Unidentifiable goods	1,263	*	*
Other goods	*	*	*
Subtotal	31,354	4,734	4,116
Total all commodities	111,421	19,774	16,985
			<i>million tonne-kilometres</i>
Products of agriculture, forestry, raw materials			
Agricultural products	1,446	683	857
Coal and lignite	*	*	*
Metal ore and other mining and quarrying	916	*	*
Subtotal	2,377	845	1,125
Food products, including beverages and tobacco			
Food products	1,830	2,146	1,705
Textile, leather and wood products			
Textiles and textile products; leather and leather products	67	115	*
Wood products	375	366	334
Subtotal	441	480	339
Metal, mineral and chemical products			
Coke and refined petroleum products	405	*	*
Chemical products	416	464	*
Glass, cement and other non-metallic mineral products	415	489	*
Metal products	137	100	*
Subtotal	1,372	1,099	564
Machinery and equipment, consumer durables			
Machinery and equipment	264	*	*
Transport equipment	103	242	179
Furniture	31	*	*
Subtotal	398	393	349
Other products			
Waste related products	498	*	360
Mail, parcels	468	566	411
Empty containers, pallets and other packaging	186	82	88
Household and office removals	168	*	*
Grouped goods	1,042	643	345
Unidentifiable goods	75	*	*
Other goods	*	*	*
Subtotal	2,455	1,726	1,440
Total all commodities	8,873	6,690	5,521

* = Sample too small for a reliable estimate

These figures include goods lifted by Northern Irish-based HGVs, so are slightly higher than those appearing in DfT's Road Freight Statistics.

Table 3.5 Goods lifted or moved by UK HGVs, for journeys entering or leaving the UK by commodity, 2018¹

ROAD FREIGHT

	Goods entering UK		Goods leaving UK	
	Total entering UK	of which: entering Scotland	Total leaving UK	of which: leaving Scotland
	<i>thousand tonnes</i>			
Products of agriculture, forestry, raw materials				
Agricultural products	456	*	205	*
Coal and lignite	*	*	1,524	111
Metal ore and other mining and quarrying	317	*	75	*
Subtotal	775	*	1,804	111
Food products, including beverages and tobacco				
Food products	2,388	*	278	*
Textile, leather and wood products				
Textiles and textile products; leather and leather products	45	*	*	*
Wood products	93	*	542	*
Subtotal	138	*	615	*
Metal, mineral and chemical products				
Coke and refined petroleum products	*	*	864	*
Chemical products	400	*	370	*
Glass, cement and other non-metallic mineral products	527	*	394	*
Metal products	196	*	241	*
Subtotal	1,181	*	1,870	17
Machinery and equipment, consumer durables				
Machinery and equipment	366	*	222	*
Transport equipment	341	*	118	*
Furniture	164	*	160	*
Subtotal	871	47	500	*
Other products				
Waste related products	160	*	253	*
Mail, parcels	115	*	236	*
Empty containers, pallets and other packaging	104	*	1,002	*
Household and office removals	136	*	43	*
Grouped goods	862	*	*	*
Unidentifiable goods	70	*	7,292	*
Other goods	*	*	*	195
Subtotal	1,462	*	8,828	205
Total for journeys outwith UK	6,814	133	13,896	351
	<i>million tonne-kilometres</i>			
Products of agriculture, forestry, raw materials				
Agricultural products	179	*	60	*
Coal and lignite	*	*	637	157
Metal ore and other mining and quarrying	96	*	26	*
Subtotal	277	*	723	157
Food products, including beverages and tobacco				
Food products	945	*	94	*
Textile, leather and wood products				
Textiles and textile products; leather and leather products	21	*	*	*
Wood products	42	*	325	*
Subtotal	63	*	336	*
Metal, mineral and chemical products				
Coke and refined petroleum products	*	*	217	*
Chemical products	352	*	144	*
Glass, cement and other non-metallic mineral products	148	*	255	*
Metal products	44	*	205	*
Subtotal	571	*	820	18
Machinery and equipment, consumer durables				
Machinery and equipment	207	*	267	*
Transport equipment	299	*	35	*
Furniture	211	*	80	*
Subtotal	716	41	382	*
Other products				
Waste related products	33	*	99	*
Mail, parcels	64	*	204	*
Empty containers, pallets and other packaging	33	*	364	*
Household and office removals	116	*	23	*
Grouped goods	336	*	*	*
Unidentifiable goods	38	*	3,312	*
Other goods	*	*	*	241
Subtotal	622	*	4,004	251
Total for journeys outwith UK	3,195	125	6,359	440

* = Sample too small for a reliable estimate

These figures include goods lifted by Northern Irish-based HGVs, so are slightly higher than those appearing in DfT's Road Freight Statistics.

Table 3.6 Goods lifted or moved by UK HGVs, entering or leaving Scotland, to or from rest of UK, by origins and destinations of journeys, 2018

Origin / destination of journey	Goods entering Scotland	Goods leaving Scotland	Goods entering Scotland	Goods leaving Scotland
	<i>thousand tonnes</i>		<i>million tonne-kilometres</i>	
England				
North East	3,122	3,433	680	743
North West	7,794	7,562	2,186	2,021
Yorkshire & the Humber	2,859	1,480	1,018	579
East Midlands	1,733	1,156	777	548
West Midlands	2,298	1,482	1,030	645
East	*	642	*	370
London	*	*	*	*
South East	*	*	*	*
South West	*	*	*	*
Total England	19,426	16,462	6,610	5,344
Wales	*	*	*	*
Northern Ireland	273	201	46	39
Total elsewhere in UK	19,774	16,985	6,690	5,521

* = Sample too small for a reliable estimate

Table 3.7 Goods lifted or moved by UK HGVs, entering or leaving Scotland, to or from outwith UK, by origins and destinations of journeys, 2018

Origin / destination of journey	Goods entering Scotland	Goods leaving Scotland	Goods entering Scotland	Goods leaving Scotland
	<i>thousand tonnes</i>		<i>thousand tonne-kilometres</i>	
EU countries				
Austria	*	*	*	*
Belgium & Luxembourg	50	*	44,562	*
Bulgaria	*	*	*	*
Croatia	*	*	*	*
Cyprus	*	*	*	*
Czech Republic	*	*	*	*
Denmark	*	*	*	*
Estonia	*	*	*	*
Finland	*	*	*	*
France	15	85	16,962	94,303
Germany	*	20	*	17,727
Greece	*	*	*	*
Hungary	*	*	*	*
Ireland	*	*	*	*
Italy	*	*	*	*
Latvia	*	*	*	*
Lithuania	*	*	*	*
Malta	*	*	*	*
Netherlands	*	*	*	*
Poland	*	*	*	*
Portugal	*	*	*	*
Romania	*	*	*	*
Slovakia	*	*	*	*
Slovenia	*	*	*	*
Spain	*	*	*	*
Sweden	*	*	*	*
Total EU countries	131	179	122,600	218,726
Other countries	2	*	2,847	*
Total outwith UK	133	195	125,447	240,834

* = Sample too small for a reliable estimate

Table 3.8 Average freight lifted by UK HGVs per year (2014-2018): Journeys with U.K. origins and destinations which either started or ended in Scotland

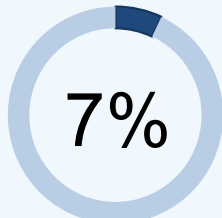
Journey Started In:	Journey Ended In									Total
	ZetTrans	HITRANS	NESTRANS	TACTRAN	SESTRAN	SPT	SWestrans	SCOTLAND	Elsewhere in UK	
ZetTrans	432	*	*	*	*	*	*	453	*	453
HITRANS	*	12,206	560	406	333	898	*	14,494	963	15,457
NESTRANS	*	478	10,151	511	449	610	*	12,249	839	13,088
TACTRAN	*	448	797	3,962	1,569	1,241	188	8,206	1,121	9,326
SESTRAN	*	650	846	1,520	17,268	3,914	599	24,797	3,220	28,017
SPT	*	812	702	719	4,475	23,471	1,163	31,342	4,687	36,029
SWestrans	*	*	*	302	297	990	2,839	4,535	2,437	6,973
SCOTLAND	475	14,688	13,092	7,419	24,389	31,125	4,889	96,077	13,267	109,343
Elsewhere in UK	*	863	1,190	915	5,138	6,293	2,207	16,606	1,322,225	1,338,831
TOTAL	475	15,551	14,282	8,335	29,528	37,418	7,095	112,683	1,335,491	1,448,174

Chapter 4: Road Network

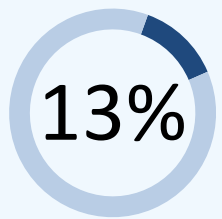
- Public road lengths by Local Authority, class, type and speed limit
- Amount of trunk road constructed/resurfaced
- Residual life of the trunk road network

56,591

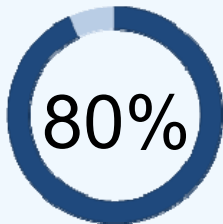
kilometres of road network in Scotland in 2018



was trunk road (1% motorway)

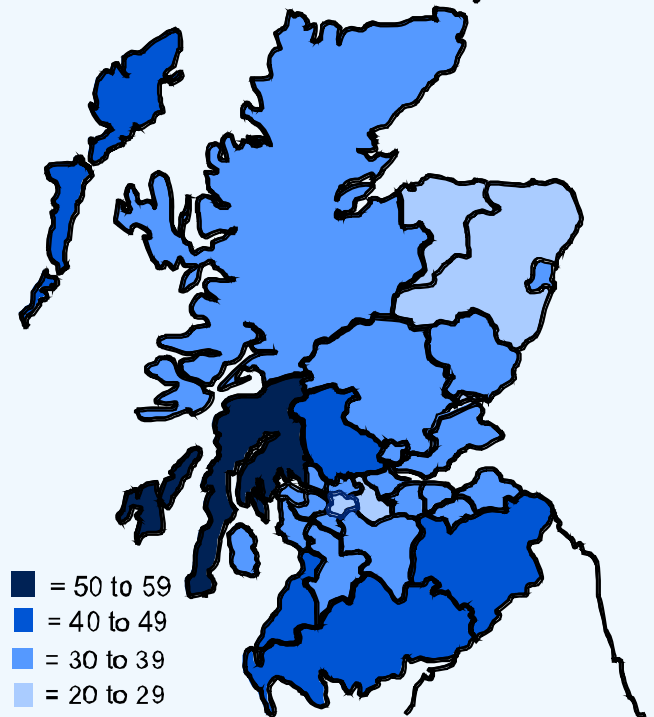


was non-trunk A roads



were minor roads

Road network condition in 2018
(% of roads in Red or Amber condition)
Red = action needed
Amber = investigation needed



The length of the **motorway network** remained the same between April 2018 and April 2019
1/3 of **Scotland's road network** is accounted for by Highland Council, Aberdeenshire Council and Dumfries and Galloway Council roads

645 km of motorways in Scotland in 2018

824 km of dual carriageway in Scotland in 2018

27,733 km of single carriageway in Scotland in 2018

10.4 km of road per 1,000 people in Scotland compared to 6.2 km in GB in 2018



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ROAD NETWORK

1. Introduction

1.1 This chapter provides information about public road lengths by local authority, road class, type and speed limit. It also includes statistics on the amount of trunk road constructed/re-surfaced and information on the residual life of the trunk road network.

1.2. Unusual year - to - year changes in the reported road lengths may be due to the gradual introduction of Geographical Information Systems (GIS) to calculate road lengths by the data providers - see Notes and Definitions section, page 247.

Key Points

- **Scotland has 56,591 km of road network.**
- **Seven per cent is trunk road (1% is motorway).**
- **Scotland has 10.4 km of road per 1,000 people compared to 6.2 km in GB.**

2. Main Points

Road length

2.1 There were 56,591 kilometres of public road in Scotland at 31 March 2019. The trunk road network accounted for 7% of the total. Other (non-trunk) A roads represented 13% of the total. Minor roads (B and C roads, and unclassified roads) accounted for the remaining 80% of roads. (*Table 4.1*)

2.2 The length of the motorway network remained the same between April 2017 and April 2018. (*Table 4.1*)

2.3 Over a quarter of the total trunk road network, and about one-seventh of the Scottish road network, is within the area of the Highland Council. Around 10% of the Scottish road network is within the Aberdeenshire Council area and a further 8% is within the Dumfries and Galloway Council area. These three local authorities account for almost a third of Scotland's road network. (*Table 4.2*)

Road Maintenance

2.4 Overall there was an increase of 17% in the amount of trunk road that was newly constructed, reconstructed, strengthened or surface dressed in 2018-19 compared to the previous year. (*Table 4.3*)

2.5 In 2018-19, 14.5% of the motorway network, 9.2% of the dual carriageway and 10.7% of the single carriageway trunk road network required close monitoring of the state of the road surface. (*Table 4.5 (b)*)

2.6 In 2018-19 the National Road Condition Indicator (RCI) showed 30% of the local authority A road network may, following more detailed examination, require some kind of maintenance (see the Notes and Definitions section, page 247). For the whole of the local authority network (all road categories), about 36% may similarly require some kind of maintenance. (*Table 4.6*)

Table 4.1 Public road lengths by class, type and speed limit^{1,2}

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Trunk roads ^{3,6}											
Motorways											<i>Kilometres</i>
Excluding slip roads	392	390	389	396	420	420	420	420	440	449	449
Including slip roads	547	546	544	558	599	599	600	601	632	645	645
A roads											
Dual carriageway	521	523	523	511	500	500	504	504	505	510	554
Single carriageway	2,323	2,332	2,327	2,282	2,279	2,274	2,326	2,326	2,327	2,320	2,310
Other inc slips/roundabout	114	119	123	185	188	191	208	208	204	205	226
Total	2,958	2,974	2,974	2,978	2,968	2,966	3,037	3,037	3,036	3,036	3,090
by speed limit:											
up to 40 mph	229	226	233	235	237	237	243	243	245	248	241
over 40 mph	2,730	2,748	2,740	3,302	3,330	3,328	3,395	3,395	3,424	3,433	3,494
All trunk roads ^{3,4}	3,505	3,520	3,518	3,536	3,566	3,565	3,637	3,638	3,669	3,681	3,735
Local Authority major roads ⁷											
Motorways											
Excluding slip roads	-	-	-	-	-	-	-	-	-	-	-
Including slip roads	-	-	-	-	-	-	-	-	-	-	-
A roads											
Dual carriageway ⁵	243	243	229	232	268	270	272	272	272	271	271
Single carriageway ⁵	7,178	7,178	7,185	7,235	7,204	7,203	7,134	7,142	7,146	7,156	7,230
Total	7,421	7,421	7,414	7,467	7,473	7,473	7,406	7,414	7,418	7,427	7,500
by speed limit:											
up to 40 mph	1,515	1,508	1,509	1,559	1,567	1,572	1,616	1,621	1,630	1,642	1,691
over 40 mph	5,906	5,913	5,905	5,907	5,906	5,901	5,791	5,792	5,788	5,785	5,809
All LA major roads ⁴	7,421	7,421	7,414	7,467	7,473	7,473	7,406	7,414	7,418	7,427	7,500
Local Authority minor roads ⁷											
B roads											
limit up to 40 mph	1,174	1,176	1,170	1,189	1,194	1,194	1,228	1,226	1,230	1,235	1,241
limit over 40 mph	6,292	6,318	6,311	6,310	6,309	6,305	6,270	6,276	6,268	6,255	6,266
Total	7,466	7,493	7,481	7,499	7,504	7,500	7,498	7,502	7,498	7,491	7,506
C roads											
limit up to 40 mph	1,576	1,556	1,555	1,582	1,586	1,593	1,621	1,653	1,658	1,658	1,666
limit over 40 mph	9,091	9,102	9,098	9,105	9,104	9,098	9,060	9,051	9,045	9,043	9,021
Total	10,667	10,658	10,653	10,687	10,690	10,691	10,681	10,703	10,703	10,701	10,687
Unclassified roads											
limit up to 40 mph	14,573	14,714	14,828	14,856	14,948	15,020	15,097	15,198	15,273	15,379	15,465
limit over 40 mph	11,712	11,726	11,732	11,727	11,732	11,728	11,735	11,696	11,688	11,686	11,697
Total	26,285	26,440	26,560	26,583	26,680	26,748	26,832	26,895	26,962	27,065	27,162
All LA minor roads	44,418	44,591	44,694	44,769	44,873	44,938	45,011	45,100	45,163	45,257	45,355
All roads (trunk and LA) ³											
Motorways											
Excluding slip roads	392	390	389	396	420	420	420	420	440	449	449
Including slip roads	547	546	544	558	599	599	600	601	632	645	645
A, B and C roads											
Dual carriageway ⁵	764	766	752	742	768	770	776	775	776	781	824
Single carriageway ⁵	27,634	27,661	27,646	27,703	27,677	27,667	27,639	27,674	27,675	27,668	27,733
Total	28,512	28,546	28,522	28,630	28,633	28,629	28,623	28,656	28,656	28,654	28,784
by speed limit:											
up to 40 mph	4,494	4,465	4,467	4,565	4,584	4,595	4,708	4,743	4,763	4,783	4,839
over 40 mph	24,019	24,081	24,054	24,624	24,648	24,632	24,515	24,515	24,525	24,516	24,590
Unclassified roads											
limit up to 40 mph	14,573	14,714	14,828	14,856	14,948	15,020	15,097	15,198	15,273	15,379	15,465
limit over 40 mph	11,712	11,726	11,732	11,727	11,732	11,728	11,735	11,696	11,688	11,686	11,697
Total	26,285	26,440	26,560	26,583	26,680	26,748	26,832	26,895	26,962	27,065	27,162
All roads ^{3,4}	55,344	55,532	55,626	55,772	55,912	55,975	56,054	56,152	56,250	56,364	56,591

Source: Transport Scotland - Not National Statistics

1. Motorway road lengths are derived from GIS from 2000 onwards - see commentary for more details.

2. Road lengths are physical length rather than carriageway length e.g. 10km of dual carriageway counts as 10km, not 20km.

3. These figures now include A road slip roads which have been excluded from the figures in previous publications. The time series has been updated to include this data resulting in an increase of 3-4% in Trunk road length and an increase in overall road length of 0.2%. The methodology for calculating the trunk road totals from the database has also changed resulting in some small changes to road lengths from those previously published.

4. Trunk road lengths for these roads have now been derived more accurately using a GIS system from 2006.

5. For 2008 and 2009 single and dual carriageways figures are estimated.

6. As at 30 May 2014.

7. Local authority road lengths at the end of the financial year e.g. 2013=2013/14.

ROAD NETWORK

Table 4.2 Public road lengths by council area and class, 2018/19

Council	Trunk ³			Local Authority ^{2,5}					Total	
	Motorway ¹	Motorway slips	A Roads	Total	A Roads	B Roads	C Roads	Unclassified		Total
										<i>kilometres</i>
Aberdeen City	-	-	36	36	103	42	93	727	964	1,000
Aberdeenshire	-	-	235	235	688	814	1,548	2,514	5,563	5,798
Angus	-	-	54	54	193	255	489	879	1,815	1,868
Argyll & Bute	-	-	296	296	505	614	434	733	2,286	2,582
Clackmannanshire	-	-	3	3	49	34	28	180	292	295
Dumfries & Galloway	59	14	279	352	494	735	1,178	1,774	4,182	4,534
Dundee City	-	-	19	19	36	17	96	422	571	590
East Ayrshire	11	4	56	70	124	193	211	630	1,158	1,228
East Dunbartonshire	-	-	-	-	57	47	34	382	520	520
East Lothian	-	-	59	59	124	169	200	444	937	997
East Renfrewshire	9	3	10	22	31	50	83	320	484	506
Edinburgh, City of	19	14	34	67	135	52	119	1,113	1,419	1,486
Eilean Siar	-	-	-	-	340	177	189	486	1,191	1,191
Falkirk	39	14	5	58	114	96	118	655	984	1,041
Fife	20	8	96	124	322	325	352	1,441	2,439	2,563
Glasgow, City of	55	50	3	108	135	64	209	1,421	1,829	1,936
Highland	-	-	960	960	1,400	970	1,440	2,942	6,752	7,712
Inverclyde	-	-	28	28	24	23	54	270	370	398
Midlothian	-	-	39	39	93	100	101	395	689	728
Moray	-	-	98	98	157	296	366	739	1,559	1,657
North Ayrshire	-	-	73	73	101	155	207	577	1,040	1,113
North Lanarkshire ⁴	59	25	19	103	147	143	244	1,042	1,575	1,678
Orkney Islands	-	-	-	-	161	205	160	459	985	985
Perth & Kinross	39	14	208	260	435	367	638	1,063	2,503	2,763
Renfrewshire	18	10	26	55	65	62	140	559	826	881
Scottish Borders	-	-	167	167	459	599	769	1,149	2,976	3,143
Shetland Islands	-	-	-	-	225	162	199	465	1,050	1,050
South Ayrshire	-	-	93	93	108	209	232	628	1,176	1,269
South Lanarkshire	65	21	56	142	268	247	444	1,313	2,271	2,413
Stirling	21	6	116	144	212	161	171	474	1,017	1,161
West Dunbartonshire	-	-	23	23	46	8	27	297	378	401
West Lothian	35	13	-	47	152	117	116	670	1,055	1,102
Total	449	196	3,090	3,735	7,500	7,506	10,687	27,162	52,856	56,591
										<i>percentages</i>
Aberdeen City	-	-	1.2	1.0	1.4	0.6	0.9	2.7	1.8	1.8
Aberdeenshire	-	-	7.6	6.3	9.2	10.8	14.5	9.3	10.5	10.2
Angus	-	-	1.7	1.4	2.6	3.4	4.6	3.2	3.4	3.3
Argyll & Bute	-	-	9.6	7.9	6.7	8.2	4.1	2.7	4.3	4.6
Clackmannanshire	-	-	-	0.1	0.7	0.5	0.3	0.7	0.6	0.5
Dumfries & Galloway	13.1	7.4	9.0	9.4	6.6	9.8	11.0	6.5	7.9	8.0
Dundee City	-	-	0.6	0.5	0.5	0.2	0.9	1.6	1.1	1.0
East Ayrshire	2.4	1.9	1.8	1.9	1.7	2.6	2.0	2.3	2.2	2.2
East Dunbartonshire	-	-	-	0.0	0.8	0.6	0.3	1.4	1.0	0.9
East Lothian	-	-	1.9	1.6	1.7	2.3	1.9	1.6	1.8	1.8
East Renfrewshire	2.1	1.4	0.3	0.6	0.4	0.7	0.8	1.2	0.9	0.9
Edinburgh, City of	4.2	7.0	1.1	1.8	1.8	0.7	1.1	4.1	2.7	2.6
Eilean Siar	-	-	-	0.0	4.5	2.4	1.8	1.8	2.3	2.1
Falkirk	8.7	7.0	0.2	1.5	1.5	1.3	1.1	2.4	1.9	1.8
Fife	4.5	4.1	3.1	3.3	4.3	4.3	3.3	5.3	4.6	4.5
Glasgow, City of	12.1	25.6	0.1	2.9	1.8	0.8	2.0	5.2	3.5	3.4
Highland	-	-	31.1	25.7	18.7	12.9	13.5	10.8	12.8	13.6
Inverclyde	-	-	0.9	0.8	0.3	0.3	0.5	1.0	0.7	0.7
Midlothian	-	-	1.2	1.0	1.2	1.3	0.9	1.5	1.3	1.3
Moray	-	-	3.2	2.6	2.1	3.9	3.4	2.7	2.9	2.9
North Ayrshire	-	-	2.4	2.0	1.3	2.1	1.9	2.1	2.0	2.0
North Lanarkshire	13.1	13.0	0.6	2.8	2.0	1.9	2.3	3.8	3.0	3.0
Orkney Islands	-	-	-	0.0	2.1	2.7	1.5	1.7	1.9	1.7
Perth & Kinross	8.6	7.1	6.7	7.0	5.8	4.9	6.0	3.9	4.7	4.9
Renfrewshire	4.1	5.3	0.8	1.5	0.9	0.8	1.3	2.1	1.6	1.6
Scottish Borders	-	-	5.4	4.5	6.1	8.0	7.2	4.2	5.6	5.6
Shetland Islands	-	-	-	0.0	3.0	2.2	1.9	1.7	2.0	1.9
South Ayrshire	-	-	3.0	2.5	1.4	2.8	2.2	2.3	2.2	2.2
South Lanarkshire	14.5	10.5	1.8	3.8	3.6	3.3	4.2	4.8	4.3	4.3
Stirling	4.8	3.2	3.8	3.8	2.8	2.1	1.6	1.7	1.9	2.1
West Dunbartonshire	-	-	0.7	0.6	0.6	0.1	0.3	1.1	0.7	0.7
West Lothian	7.7	6.5	-	1.3	2.0	1.6	1.1	2.5	2.0	1.9
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: Transport Scotland - Not National Statistics

1. Motorway road lengths have been consolidated using a GIS system which means that there will be some changes to previously published figures.
2. Triangulation with other sources of road length data has occurred to improve the quality of the information. Figures may not be comparable with previous editions.
3. As at 30 May 2016.
4. The drop in the length of trunk A roads from last year is probably due to the detrunking of A80 with the opening of the M80.
5. Local authority road lengths at the end of the financial year.

Table 4.3 Trunk road constructed/re-surfaced etc

	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19 (prov)
Equivalent road lane length												
<i>lane-kilometres (estimated)</i>												
New roads												
constructed/opened	-	58	-	52	132	-	18	3	3	0.5	86	123
Reconstructed	80	56	51	27	57	1	9	7	-	1	1	1
Strengthened	170	194	213	239	168	338	360	365	367	428	457	538
Surface dressed	79	123	30	35	10	21	11	14	8	29	33	16
Total	329	431	294	353	367	360	398	389	378	459	577	678
Percentages of total												
<i>percentages</i>												
New roads												
constructed/opened	-	13	-	15	36	-	5	1	1	0	15	18
Reconstructed ¹	24	13	17	8	16	0	2	2	-	0	0	0
Strengthened	52	45	72	68	46	94	90	94	97	93	79	79
Surface dressed	24	29	10	10	3	6	3	4	2	6	6	2
Total	100	100	100	100	100	100	100	100	100	100	100	100

Source: Transport Scotland - Not National Statistics

Table 4.4 (a) Trunk road constructed/re-surfaced etc, by unit, 2017-18

Unit	New road constructed for traffic	Reconstructed	Strengthened	Surface Dressed	Total
Equivalent road lane length					
<i>lane-kilometres (estimated)</i>					
NW	-	-	155	6	161
NE	30	-	68	8	106
SW	56	-	116	14	186
SE	-	1	115	6	122
FBOC	-	-	3	0	3
Total	85.9	1	457	34	578
Percentages of total					
<i>percentages</i>					
NW	-	-	34	18	28
NE	35	-	15	24	18
SW	65	-	25	41	32
SE	-	100	25	18	21
FBOC	-	-	1	-	1
Total	100	100	100	100	100

Source: Transport Scotland - Not National Statistics

Table 4.4 (b) Trunk road constructed/re-surfaced etc, by unit, 2018-19 (provisional)

Unit	New road constructed for traffic	Reconstructed	Strengthened	Surface Dressed	Total
Equivalent road lane length					
<i>lane-kilometres (estimated)</i>					
NW	-	-	192	3	195
NE	113	8	70	5	196
SW ¹	10	0	144	7	161
SE ¹	-	-	132	1	133
FBOC	-	-	-	-	-
Total	123	9	538	16	685
Percentages of total					
<i>percentages</i>					
NW	-	-	36	19	28
NE	92	95	13	31	29
SW	8	5	27	44	24
SE	-	-	25	6	19
FBOC	-	-	-	-	-
Total	100	100	100	100	100

Table 4.5 Trunk road network: Residual Life¹ (years)**(a) Residual Life of Pavements (i.e. road surface) as percentage of whole network**

	Residual Life (years)					
	<0	0-4	5-9	10-14	15-19	>19
	<i>percentages</i>					
1997-98	11	8	11	8	8	54
1998-99	10	9	9	8	7	57
1999-00	10	8	10	9	10	53
2000-01	9	7	9	8	8	59
2001-02	4	4	7	7	10	68
2002-03	4	4	7	7	11	67
2003-04	4	4	6	7	12	67
2004-05	4	5	6	7	13	65
2005-06	4	4	6	7	15	63
2006-07	5	4	6	7	15	63
2007-08	4	4	7	7	13	65
2008-09	4	4	6	7	11	68
2009-10	5	5	7	8	11	64
2010-11	5	4	6	7	9	69
2011-12 ²	10	7	10	10	11	52
2012-13	13	8	10	10	12	46
2013-14	14	8	10	9	11	49
2014-15	13	7	9	9	12	50
2015-16	12	9	9	9	13	48
2016-17 ⁴	12	9	9	9	12	49
2017-18 ⁴	11	9	9	9	12	51
2018-19 ⁴	11	9	9	9	12	51

Operating Company Areas 2018-19⁴

Forth Bridges Unit	16	7	8	6	14	47
North West Unit	12	8	9	9	11	51
North East Unit	12	12	12	11	10	42
South East Unit	9	9	9	8	12	53
South West Unit	9	6	8	7	13	57

(b) The proportion of the motorway/dual and single carriageway trunk road network, which require close monitoring³

	Motorways	Dual carriageways	Single carriageways
	Requires close monitoring	Requires close monitoring	Requires close monitoring
	%	%	%
2002-03	7.5	5.2	
2003-04	9.0	5.1	
2004-05	9.2	3.9	
2005-06	6.7	3.2	
2006-07	6.1	2.7	
2007-08	8.2	3.9	
2008-09	4.3	4.1	
2009-10	6.3	5.5	3.7
2010-11	6.2	3.4	4.2
2011-12 ²	12.9	9.1	10.3
2012-13	23.1	13.3	11.6
2013-14	23.4	15.0	10.3
2014-15	22.9	10.4	11.3
2015-16	21.5	9.8	10.5
2016-17 ⁴	16.9	10.7	11.5
2017-18 ⁴	13.4	8.6	11.3
2018-19 ⁴	14.5	9.2	10.7
Operating Company Areas 2018-19⁴			
Forth Bridges Unit	17.7	8.8	-
North West Unit	-	12.1	11.6
North East Unit	14.1	9.24	14.8
South East Unit	17.1	6.35	4.86
South West Unit	20.4	8.78	8.8

Source: Transport Scotland - Not National Statistics

1. Residual life represents the number of years to elapse before the pavement reaches the stage when it may be necessary to undertake relatively more expensive reconstruction rather than strengthening to restore its full life.

2 Method of calculation changed in 2011-12.

3. The part of the network that requires close monitoring is that which has a residual life of less than zero.

Note: it has been decided that surveyed network length is not required as the figures produced are now representative of the whole network as shown in Table 4.1

4. These figures are provisional.

ROAD NETWORK

Table 4.6 Local authority road network condition ^{1,2}

	A roads		B roads		C roads		Unclassified		All roads	
	Condition		Condition		Condition		Condition		Condition	
	Red	Amber	Red	Amber	Red	Amber	Red	Amber	Red	Amber
(a) in each Council area: 2018-19										
	<i>percentage</i>									
Aberdeen City	4	21	3	18	4	22	5	27	5	25
Aberdeenshire	3	24	3	22	3	20	5	26	4	23
Angus	3	24	6	32	5	27	6	28	5	28
Argyll & Bute	9	33	21	42	19	41	16	36	16	38
Clackmannanshire	2	22	2	20	5	26	7	33	5	29
Dumfries & Galloway	5	29	6	30	11	36	18	39	12	35
Dundee City	2	19	2	21	1	13	4	26	4	23
East Ayrshire	3	18	5	28	9	32	11	32	9	30
East Dunbartonshire	4	23	3	23	4	23	6	30	6	28
East Lothian	4	28	7	36	4	30	5	28	5	30
East Renfrewshire	2	15	4	26	8	26	10	34	8	31
Edinburgh, City of	4	24	3	20	6	27	7	32	7	30
Eilean Siar	7	28	6	32	8	42	7	40	7	36
Falkirk	3	23	5	30	6	30	6	32	6	30
Fife	5	26	6	29	4	28	4	28	4	28
Glasgow, City of	3	26	2	18	2	18	4	27	4	25
Highland	4	25	6	30	10	31	11	31	9	30
Inverclyde	2	17	3	26	10	33	8	31	7	30
Midlothian	4	23	5	28	6	32	6	31	6	30
Moray	3	25	2	23	4	24	5	26	4	25
North Ayrshire	8	29	7	33	12	37	6	28	7	31
North Lanarkshire	2	16	3	20	3	23	5	30	4	26
Orkney Islands	2	22	3	20	2	13	1	18	2	19
Perth & Kinross	7	30	5	31	5	29	6	31	6	30
Renfrewshire	3	20	2	22	10	28	7	30	7	28
Scottish Borders	6	32	8	37	6	34	11	41	9	37
Shetland Islands	1	16	7	29	3	29	8	39	6	30
South Ayrshire	6	30	7	31	9	33	9	33	8	33
South Lanarkshire	3	21	3	22	6	31	5	28	4	27
Stirling	4	25	6	32	8	32	16	34	10	31
West Dunbartonshire	4	25	2	20	5	28	5	30	5	29
West Lothian	2	19	4	26	11	36	4	25	4	26
Scotland	4	26	6	29	7	29	8	31	7	29
(b) for Scotland as a whole: 2005-06 to 2018-19 (New RCI Series) ²										
2005-06	4	27	4	28	4	31	..	..	..	..
2006-07	4	29	4	29	4	32	..	..	..	..
2007-08	5	29	6	34	5	33	..	..	..	..
2008-09	5	28	5	34	5	33	7	37	6	34
2009-10	6	30	6	35	5	33	8	39	7	36
2010-11	6	30	7	36	7	35	10	42	8	38
2011-12	6	30	8	36	8	36	8	38	8	36
2012-13	5	24	7	28	7	28	9	30	7	29
2013-14	5	24	7	28	8	28	9	30	8	29
2014-15	5	24	7	29	9	29	9	30	8	29
2015-16	4	25	6	29	6	28	9	31	7	29
2016-17	4	25	6	29	6	28	9	31	7	29
2017-18	4	26	6	29	7	29	8	31	7	30
2018-19	4	26	6	29	7	29	8	31	7	29
(b) for Scotland as a whole: 2002-03 ³ to 2007-08 (Old SPI Series)										
2002-03 ⁴	9	37	..	..	..	..	..	..	..	..
2003-04	7	33	12	45	8	37	18	52	13	45
2004-05 ⁵	6	31	10	43	5	31	15	50	11	42
2005-06	6	31	9	40	4	29	14	51	10	42
2006-07	6	34	11	35	5	29	18	57	13	47
2007-08	6	34	10	46	6	36	16	53	12	46

Source: Scottish Road Maintenance Condition Survey - Not National Statistics

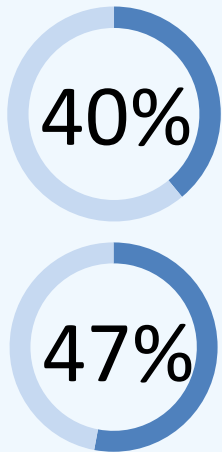
- From 2007-08 the basis of the statutory road performance indicator in Scotland changed to the UK Standard Road Condition Indicator.
- While it has been possible, following the change to the indicator, to calculate the equivalent RCI value for all classified roads from 2005-06, it has not been possible to do this in a reliable manner for unclassified roads, owing to a lack of cracking data for those years. As unclassified roads represent a significant part of the total road network, RCI data for the network is similarly not available for this period. It is important to note that owing to the different formulation, no valid comparison can or should be made between the two series.
- The categories used to indicate the condition of the road are in brief:
amber - further investigation should be undertaken to establish if treatment is required.
red - the road has deteriorated to the point at which it is likely repairs to prolong its future life should be undertaken.
- Information for 2002-03 is available only for A roads.
- The SPI figures for Scotland in 2004-05 exclude Glasgow, as the survey in Glasgow was undertaken on a different basis in that year.

Chapter 5: Road Traffic

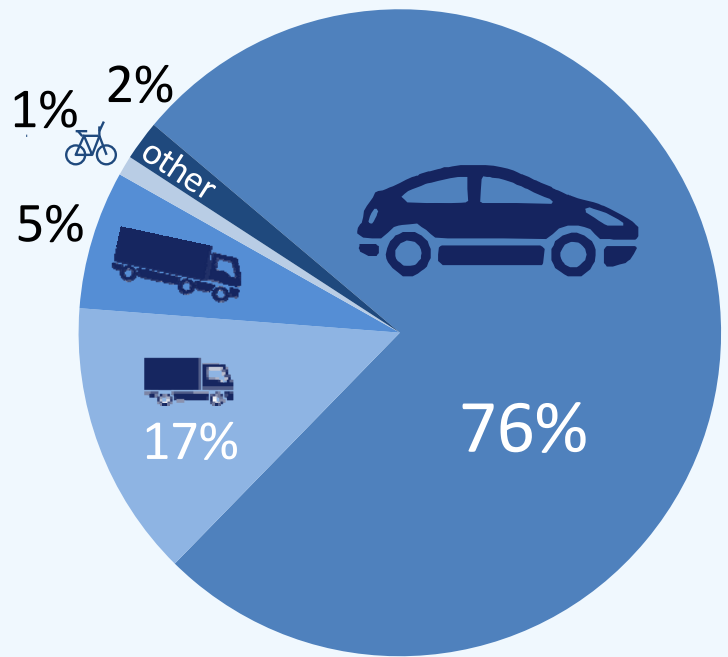
- Total volume of traffic by type of road, by type of vehicle, and by council area
- Traffic flows at selected points on the road network
- Delays and congestion
- Petrol and diesel consumption.

48 billion

vehicle kilometres driven in Scotland in 2018



Cars were 76% of traffic in 2018:



15% decrease in pedal cycle traffic volume in the last five years



12.5% of driver journeys were **delayed by congestion** over the period 2016-2018



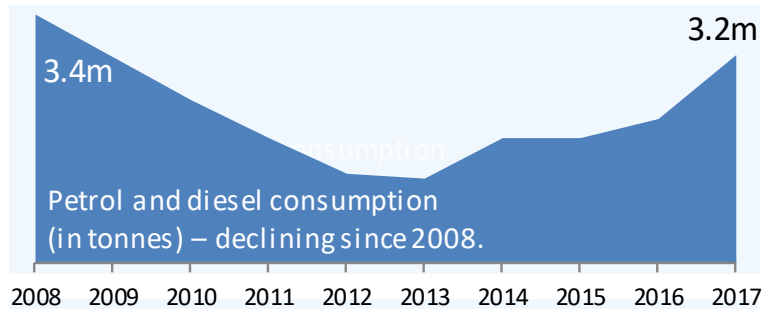
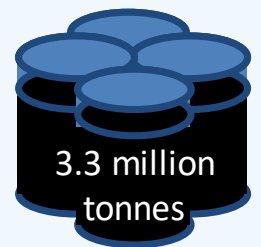
Some **types of journeys** were more likely to be **delayed by congestion**:

% journeys reported delayed between 2016-18:



15% Wednesday Sunday 5%

Traffic on Scottish roads consumed just over 3 million tonnes of **petrol and diesel** in 2017



For web publication and further information, visit http://bit.ly/STS_all editions



ROAD TRAFFIC

1 Introduction

1.1 This chapter provides information about road traffic, such as the total volume of traffic by type of road, by type of vehicle, and by council area. It also provides some figures on traffic flows at selected points on the road network, some statistics on delays and congestion and information about petrol and diesel consumption.

1.2 Traffic estimates, indicate only the *broad* level of traffic, so year - on - year comparisons should be made with care as they are based on a very small cross-section of the roads in Scotland: 12 hours in one day traffic counts taken at around 750 sites per year and data from automatic traffic counters at about two dozen sites in Scotland (then combined with data from automatic counters at similar sites in England and Wales). See Sources section.

Key Points

- **48 billion vehicle km were driven in 2018**
- **40% of distance travelled is on Trunk roads, which account for only 7% of the road network.**
- **12.5% of driver journeys were delayed by congestion between 2016 and 2018.**

2 Main Points

Major and Minor Roads

2.1 The estimated volume of traffic on Scotland's roads in 2018 was around 48 billion (thousand million) vehicle km: 0.3% more than 2017. There have been slight increases in the last seven years, following the steady downward trend seen between 2007 and 2011. (*Table 5.1*)

2.2 The total volume of traffic on major roads (Motorways and A roads) in 2018 was estimated to be 32 billion vehicle-km. Traffic on Motorways accounted for 8.5 billion vehicle km (18% of all traffic). This was less than the estimated 10.6 billion vehicle km on trunk A roads (22% of the total), and the 12.4 billion on non-trunk A roads (26%). Seventy per cent of A road traffic was in rural areas: 16 billion out of the A roads total of 23 billion vehicle km. (*Table 5.1*)

2.3 Minor roads (B, C and unclassified roads) accounted for the remaining 34% of traffic in 2018: an estimated 16.6 billion vehicle km (*Table 5.1*)

2.5 The total volume of traffic on major roads (Motorways and A roads) in 2018 was 0.4% higher than in the previous year (Motorways increased by 6%). Minor road traffic was about 0.1% higher than in 2017. Traffic levels are around 8 per cent higher than in 2008. (*Table 5.1*)

Trends

2.6 DfT estimates suggest a rising trend in traffic volumes on major roads in Scotland, reaching a peak in 2007 when numbers levelled off, 5 per cent higher than they had been in 2003. Traffic volumes then fell back slightly but after increases since 2011 are now 7% higher than they were in 2007. Motorway traffic saw a 14 per cent rise between 2003 and 2008, fell slightly over the next two years and has started to rise again over the last seven years; now 21% higher than the earlier peak in 2008. (*Table 5.1*)

2.7 Traffic on minor roads is estimated to have risen by 9% between 2003 and 2007, falling by 6% between then and 2012, before rising again. The total volume of traffic on all roads in Scotland was also estimated to have risen by 6% between 2003 and 2007, falling by 2% between then and 2011, before rising again. (*Table 5.1*)

2.8 Cars account for over three quarters (76%) of the total volume of traffic on the roads (i.e. of the total for major roads and minor roads combined), light goods vehicles for 17% and heavy goods vehicles for 5%. Pedal cycle traffic increased by 8% in 2018. However, with pedal cycle traffic volumes increasing by 15% since 2008, pedal cycles still account for less than one percent of estimated traffic volume. (*Table 5.2 & 5.3*)

2.9 In 2018, the volume of car traffic was 6 per cent higher than in 2008, light goods vehicle traffic 30 per cent higher, but heavy goods vehicle traffic 6% lower. (*Table 5.3*)

Local Area volumes

2.10 A fifth of motorway traffic was within the City of Glasgow, whereas Highland had the highest volume (16%) of trunk A road traffic. The five local authorities with the highest traffic volumes (Glasgow, North Lanarkshire, Edinburgh, Fife and Aberdeenshire) account for 34% of all traffic on Scotland's roads. (*Table 5.4*)

2.11 The monthly average daily traffic flows recorded at a selection of Automated Traffic Classifier (ATC) sites are given in Table 5.6. A map showing the location of the traffic counters can be found here <https://maphub.net/transportscotland/traffic-counter-locations> The average flow (both directions) at the A720 Dreghorn site was around 85,000 vehicles per day. In contrast, the average daily flow at the A835 Aultguish site was around 1,600 vehicles. Traffic levels also vary considerably depending on the month: e.g. the A82 Ballachulish site in August averaged around 8,000 vehicles per day – compared to under 3,347 in January. (*Table 5.6 & 5.7*)

2.12 Some trunk road traffic flows are given in Table 5.7. The A720 Dreghorn was the busiest site from this sample, with an annual average of 84,594 vehicles per day in 2018. Its Monday-Friday average was 90,209 vehicles per day. The A720 Dreghorn had the highest Monday-Friday peak hourly flows at 6,334 vehicles in the morning and 7,053 vehicles in the evening. At the opposite end of the scale, the A835 Aultguish averaged 1,590 vehicles per day over the year as a whole and its Monday-Friday peak hourly flows were 195 in the morning and 194 in the afternoon. The A77 Lendalfoot had the highest percentage of heavy goods vehicle traffic in 2017 at 27% for the week, followed by the A7 Langholm (26%). (*Table 5.7*)

Delays and Congestion

2.13 In previous editions of STS Table 5.8 estimated the time lost by traffic due to delays on trunk road routes monitored by Transport Scotland. This table is no longer being updated due to number of factors, including major changes to the network which would have required a substantial rework to the methodology.

2.14 The Scottish Household Survey provides estimates of delays attributed to congestion experienced by drivers (on the previous day). Between 2016 and 2018, 12.5% of journeys made as the driver of a car were said to be delayed due to traffic congestion. This figure is broadly comparable to congestion level peak in 2007 of around 14%. Short delays were more common than longer ones - 4% of car drivers' journeys were delayed by around 5 minutes compared to 1% by 15 minutes and 3% by 20 minutes or longer. Weekday journeys were most likely to suffer congestion delays between 7 and 9 am and 4 and 6 pm (23-26% and 24-29% respectively). Fewer delays

(5%) were experienced by people residing in remote small towns than those in accessible small towns (11%). (*Tables 5.8 and 5.9*)

2.15 These statistics no longer feature in Scotland's National Indicator on driver congestion in their old form. More information on National Indicators can be found on the Scotland Performs website:

<http://www.gov.scot/About/Performance/scotPerforms/indicator/congestion>

2.16 Delays experienced by bus users have fallen since 2008, though changes in recent years are not significant due to small sample sizes. (*Table 5.9*)

Fuel Consumption

2.17 DECC estimates suggest that the traffic on Scotland's roads consumed just over 3 million tonnes of petrol and diesel in 2017. This figure includes fuel purchased outwith Scotland which is consumed in Scotland, and excludes fuel purchased in Scotland which is used outwith Scotland. It is estimated using information about average fuel consumption, vehicle emissions and traffic volumes - see Notes and Definitions section, page 252.

2.18 Petrol and diesel consumption has been falling since 2008. There has been a steady fall in petrol consumption in cars over the period and an increase in diesel cars, reflecting trends in vehicle propulsion shown in Chapter 1 i.e. increases in the proportion of diesel powered vehicles on the roads and reductions in petrol powered vehicles. (*Table 5.10*)

Fig 5.1

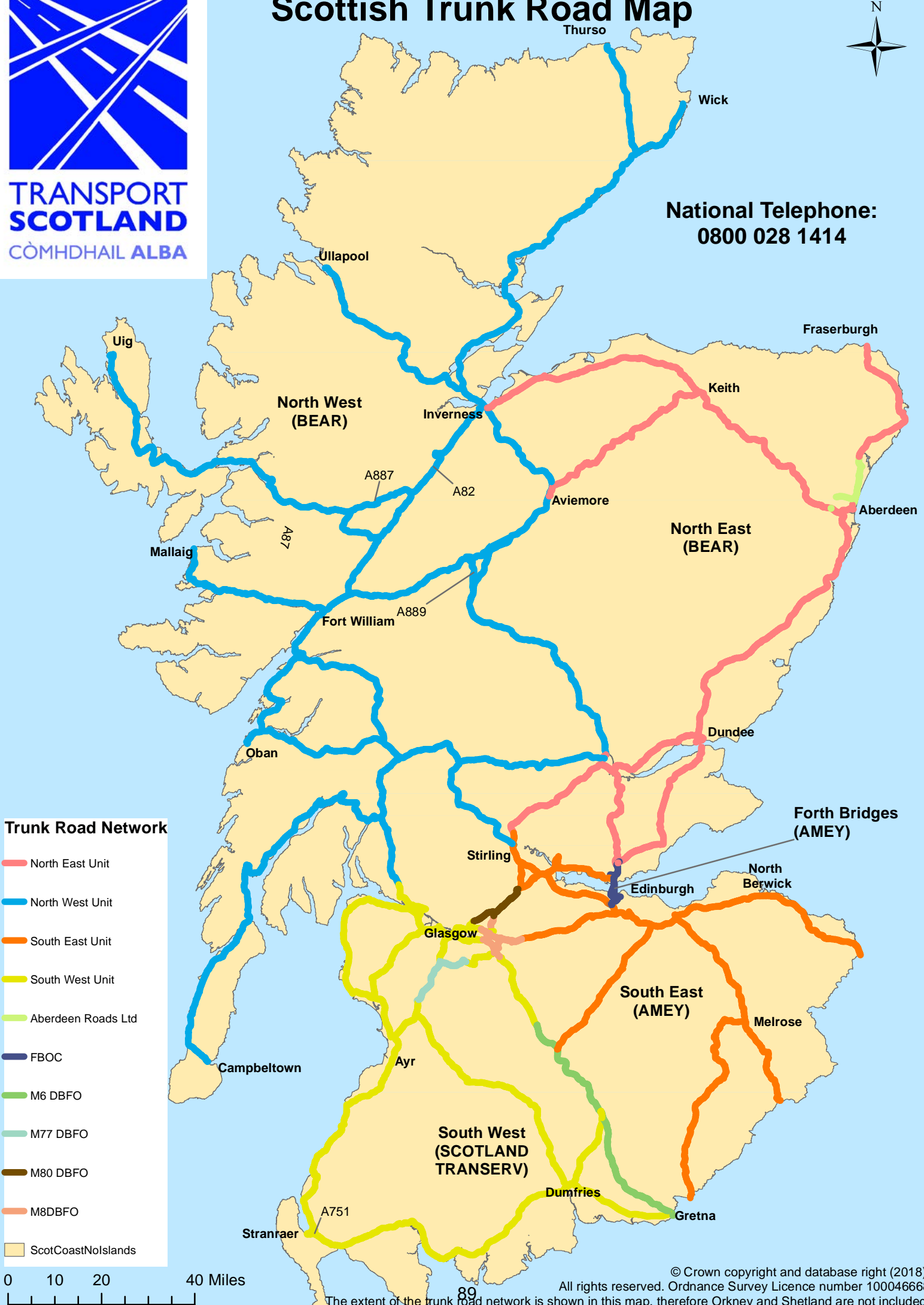


TRANSPORT SCOTLAND
CÒMHDHAIL ALBA

Scottish Trunk Road Map

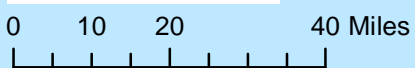


**National Telephone:
0800 028 1414**



Trunk Road Network

- North East Unit
- North West Unit
- South East Unit
- South West Unit
- Aberdeen Roads Ltd
- FBOC
- M6 DBFO
- M77 DBFO
- M80 DBFO
- M8DBFO
- ScotCoastNoIslands



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Table 5.1 Traffic (vehicle kilometres) by road class and type

	2008	2009	2010	2011	2012	2013	2014 ¹	2015	2016 ¹	2017	2018
	<i>million vehicle kilometres</i>										
Major roads (M and A)											
Motorways	6,683	6,633	6,503	6,570	7,140	7,262	7,421	7,477	7,829	8,054	8,518
Trunk A roads											
Urban *	942	952	945	951	973	960	965	960	988	1,818	1,749
Rural *	8,878	8,960	8,773	8,793	8,678	8,766	8,726	8,905	9,160	8,648	8,870
Total	9,820	9,913	9,719	9,744	9,651	9,725	9,691	9,864	10,147	10,466	10,620
Non - trunk A roads											
Urban *	4,493	4,530	4,522	4,471	4,395	4,390	4,478	4,501	4,609	5,399	5,262
Rural *	7,813	7,885	7,752	7,781	7,666	7,670	7,856	8,029	8,262	7,488	7,142
Total	12,307	12,415	12,273	12,252	12,061	12,061	12,334	12,530	12,871	12,887	12,404
All A roads											
Urban *	5,435	5,482	5,467	5,422	5,368	5,350	5,443	5,461	5,597	7,217	7,011
Rural *	16,691	16,845	16,525	16,574	16,344	16,436	16,582	16,934	17,422	16,136	16,012
Total	22,126	22,327	21,992	21,996	21,712	21,786	22,025	22,395	23,019	23,353	23,023
All major roads	28,810	28,961	28,496	28,565	28,853	29,048	29,446	29,872	30,848	31,407	31,541
Minor roads (B, C and unclassified)											
B roads											
Urban *	1,315	1,283	1,246	1,250	1,254	1,235	1,263	1,261	1,253	1,566	1,718
Rural *	2,748	2,661	2,660	2,577	2,502	2,519	2,662	2,711	2,748	2,677	2,568
Total	4,063	3,944	3,906	3,827	3,756	3,754	3,925	3,972	4,001	4,243	4,286
C & Unclassified roads											
Urban *	7,079	6,942	6,732	6,767	6,813	6,725	6,891	6,890	6,960	8,299	8,436
Rural *	4,517	4,371	4,354	4,232	4,127	4,314	4,578	4,639	4,650	4,038	3,872
Total	11,596	11,314	11,086	10,998	10,941	11,038	11,469	11,530	11,610	12,337	12,308
All minor roads											
Urban *	8,394	8,225	7,978	8,016	8,067	7,960	8,154	8,151	8,214	9,865	10,154
Rural *	7,266	7,033	7,014	6,809	6,630	6,832	7,240	7,350	7,398	6,715	6,440
All minor roads	15,659	15,258	14,992	14,825	14,696	14,792	15,393	15,502	15,611	16,580	16,594
All roads											
Motorways	6,683	6,633	6,503	6,570	7,140	7,262	7,421	7,477	7,829	8,054	8,518
Urban *	13,829	13,708	13,445	13,438	13,434	13,310	13,597	13,612	13,810	17,082	17,165
Rural *	23,957	23,878	23,539	23,383	22,974	23,269	23,822	24,284	24,819	22,851	22,453
All roads	44,470	44,219	43,488	43,390	43,549	43,840	44,839	45,374	46,459	47,986	48,137

Source: Department for Transport - Not National Statistics

1. DfT have made some small revisions to 2014 and 2016 estimates.

* DfT's classification of urban and rural roads differs from the built up/non-built up classification - see section 5.1.4 of the traffic estimates notes and definitions at the back of this publication.

Totals may not equal sum of parts due to rounding.

Table 5.2 Traffic (vehicle kilometres) on major roads (by class / type) and minor roads (by type) by vehicle type, 2018

	Cars	Two wheeled motor vehicles	Buses	Light goods vehicles	Heavy goods vehicles	All motor vehicles	Pedal cycles	All vehicle traffic	Percent of all roads
<i>million vehicle kilometres</i>									
Major roads (M and A)									
Motorways ¹	6,145	26	47	1,360	940	8,518	0	8,518	17.7
Trunk A roads - urban ²	1,355	9	11	270	104	1,748	1	1,749	3.6
Trunk A roads - rural ²	6,467	75	84	1,476	762	8,865	6	8,870	18.4
Non-trunk A roads - urban ²	4,225	21	88	749	155	5,239	23	5,262	10.9
Non-trunk A roads - rural ²	5,278	51	86	1,311	402	7,129	14	7,142	14.8
All major roads	23,470	182	316	5,166	2,363	31,499	44	31,541	65.5
Minor roads (B, C and unclassified)									
Urban roads ²	8,194	63	160	1,507	95	10,019	135	10,154	21.1
Rural roads ²	4,749	62	33	1,326	137	6,306	134	6,440	13.4
All minor roads	12,942	125	194	2,832	231	16,325	269	16,594	34.5
All roads									
Motorways	6,145	26	47	1,360	940	8,518	0	8,518	17.7
Urban roads ²	13,774	93	259	2,526	355	17,006	159	17,165	35.7
Rural roads ²	16,494	188	204	4,112	1,302	22,300	153	22,453	46.6
All roads	36,413	307	509	7,998	2,597	47,824	313	48,137	100.0
Percentage of all vehicles	75.6	0.6	1.1	16.6	5.4	99.3	0.7	100.0	

Source: Department for Transport - Not National Statistics

1. Motorways include A(M) roads.

2. DfT's classification of urban and rural roads differs from the built up/non-built up classification - see section 5.1.4 of the notes and definitions at the back of this publication.

Totals may not equal sum of parts due to rounding.

Table 5.3 Traffic (vehicle kilometres) on major roads, minor roads and all roads by vehicle type

	2008	2009	2010	2011	2012	2013	2014 ¹	2015	2016 ¹	2017	2018
<i>million vehicle kilometres</i>											
Major roads (M and A)											
Cars	22,221	22,496	21,998	21,986	22,170	22,217	22,418	22,573	23,220	23,453	23,470
Two wheeled motor vehicles	190	196	181	181	171	176	184	181	180	181	182
Buses	320	329	353	352	363	365	366	369	351	337	316
Light goods vehicles	3,690	3,684	3,701	3,816	3,906	4,032	4,242	4,481	4,765	5,032	5,165
Heavy goods vehicles	2,349	2,210	2,217	2,184	2,198	2,210	2,193	2,228	2,290	2,362	2,365
All motor vehicle traffic	28,770	28,917	28,450	28,519	28,807	29,001	29,404	29,831	30,807	31,366	31,499
Pedal cycles	40	45	46	47	45	47	42	41	41	40	44
All traffic on major roads	28,810	28,961	28,496	28,565	28,853	29,048	29,446	29,872	30,847	31,406	31,542
Minor roads (B, C and unclassified)											
Cars	12,136	11,895	11,593	11,592	11,606	11,594	11,997	12,096	12,122	12,753	12,942
Two wheeled motor vehicles	125	125	109	114	120	111	113	112	109	124	125
Buses	310	306	298	257	222	242	243	219	211	245	194
Light goods vehicles	2,455	2,343	2,406	2,306	2,216	2,287	2,434	2,499	2,670	2,975	2,832
Heavy goods vehicles	402	347	333	298	268	277	280	276	252	234	231
All motor vehicle traffic	15,427	15,016	14,740	14,567	14,432	14,510	15,066	15,201	15,364	16,330	16,325
Pedal cycles	232	243	253	258	264	282	327	300	247	250	269
All traffic on minor roads	15,659	15,258	14,992	14,825	14,696	14,792	15,393	15,502	15,611	16,580	16,594
All roads											
Cars	34,357	34,392	33,591	33,578	33,777	33,811	34,415	34,669	35,342	36,206	36,413
Two wheeled motor vehicles	315	322	290	295	290	286	297	293	289	305	307
Buses	630	635	650	609	585	607	610	588	561	582	509
Light goods vehicles	6,145	6,027	6,107	6,122	6,121	6,319	6,676	6,979	7,435	8,008	7,998
Heavy goods vehicles	2,751	2,557	2,550	2,482	2,466	2,487	2,473	2,504	2,543	2,595	2,597
All motor vehicle traffic	44,197	43,932	43,189	43,085	43,239	43,511	44,470	45,032	46,170	47,696	47,824
Pedal cycles	273	287	298	305	310	329	369	342	288	290	313
All traffic on all roads	44,470	44,219	43,488	43,390	43,549	43,840	44,839	45,374	46,459	47,986	48,137

Source: Department for Transport - Not National Statistics

1. DfT have made some small revisions to 2014 and 2016 estimates. Changes to the methodology for traffic estimates after 2015

had a disproportionate effect on pedal cycles and these should not be compared to previous years.

Totals may not equal sum of parts due to rounding.

Table 5.4 Traffic on major roads (by class / type) and on minor roads, by Council, 2018 ¹

Council	All motorways ²	Trunk A urban	Trunk A rural	Non-trunk A urban	Non-trunk A rural	Total: All major roads (M and A)	Minor roads (B, C and unclassified)	Total: all roads
<i>million vehicle kilometres</i>								
Aberdeen City	0	160	111	271	77	620	770	1,390
Aberdeenshire	0	88	864	90	744	1,786	1,232	3,017
Angus	0	-	364	104	297	766	393	1,159
Argyll & Bute	0	-	456	49	269	774	199	973
Clackmannanshire	0	-	16	52	86	153	183	336
Dumfries & Galloway	781	42	621	76	321	1,841	371	2,212
Dundee City	0	166	8	163	12	349	549	899
East Ayrshire	117	24	241	96	220	697	425	1,122
East Dunbartonshire	0	-	-	117	99	217	371	588
East Lothian	0	1	405	69	173	649	356	1,005
East Renfrewshire	233	6	49	88	33	409	403	812
Edinburgh, City of	423	178	333	666	254	1,853	1,338	3,192
Eilean Siar	0	-	-	-	163	163	63	226
Falkirk	626	-	23	217	196	1,062	605	1,667
Fife	374	96	553	335	504	1,862	1,199	3,060
Glasgow, City of	1543	-	-	696	42	2,281	1,351	3,632
Highland	0	107	1,625	59	558	2,349	594	2,943
Inverclyde	0	26	42	166	23	258	282	540
Midlothian	0	-	145	91	169	405	311	717
Moray	0	51	248	40	158	497	303	800
North Ayrshire	0	119	198	93	117	526	279	805
North Lanarkshire	1152	155	15	433	233	1,988	1,398	3,386
Orkney Islands	0	-	-	-	87	87	56	143
Perth & Kinross	497	56	1,127	119	389	2,187	407	2,594
Renfrewshire	548	74	184	201	93	1,100	542	1,643
Scottish Borders	0	33	377	57	441	908	382	1,291
Shetland Islands	0	-	-	-	154	154	64	219
South Ayrshire	0	40	382	116	115	653	379	1,032
South Lanarkshire	1183	187	131	260	385	2,146	620	2,766
Stirling	289	8	258	129	358	1,042	295	1,337
West Dunbartonshire	0	132	96	160	46	435	252	687
West Lothian	753	-	-	249	324	1,326	620	1,946
Scotland	8,518	1,749	8,870	5,262	7,142	31,542	16,594	48,137

1. Source: Department for Transport - Not National Statistics. They provide only a rough estimate of the likely total volume of traffic on roads in each area. For further information, please see the notes on the traffic estimates at the back of the publication.

2. Motorways include A(M) roads.

Totals may not equal sum of parts due to rounding.

Table 5.5 Traffic on trunk roads and on local authority roads, by Council area ¹

	2008	2009	2010	2011	2012	2013	2014 ⁴	2015	2016 ⁴	2017	2018
	<i>million vehicle kilometres</i>										
Trunk roads ²											
Aberdeen City	264	253	255	258	263	260	264	263	273	267	271
Aberdeenshire	820	829	822	824	861	872	902	908	948	1,040	952
Angus ³	328	324	335	334	343	357	370	358	367	372	364
Argyll & Bute	356	359	352	353	351	355	362	376	392	419	456
Dumfries & Galloway	1,302	1,290	1,274	1,270	1,252	1,272	1,311	1,349	1,387	1,467	1,444
Dundee City	179	182	180	178	186	182	169	168	173	171	174
East Ayrshire ³	368	375	366	365	365	359	374	369	352	349	381
East Lothian	372	359	354	355	349	349	359	362	391	414	407
East Renfrewshire	175	181	172	208	205	209	214	230	237	234	288
Edinburgh, City of	686	725	677	712	700	719	715	755	779	777	933
Falkirk	567	550	531	537	577	580	581	608	647	639	649
Fife	868	879	848	839	820	833	842	841	878	895	1,023
Glasgow, City of ³	1,305	1,302	1,288	1,313	1,481	1,522	1,510	1,499	1,548	1,572	1,543
Highland	1,519	1,556	1,530	1,535	1,528	1,546	1,557	1,614	1,675	1,720	1,732
Inverclyde	76	75	72	72	71	71	72	73	75	67	68
Midlothian	140	141	135	136	140	138	143	136	141	143	145
Moray	272	269	263	264	265	266	270	274	286	287	299
North Ayrshire	330	326	318	317	309	308	316	320	326	319	316
North Lanarkshire	1,166	1,154	1,161	1,129	1,414	1,402	1,253	1,191	1,217	1,289	1,323
Perth & Kinross	1,345	1,332	1,299	1,324	1,296	1,322	1,363	1,381	1,467	1,608	1,679
Renfrewshire ³	725	711	693	699	689	703	732	758	774	771	806
Scottish Borders	383	390	382	388	386	387	394	406	419	404	410
South Ayrshire	379	381	384	384	379	379	387	395	406	409	422
South Lanarkshire ³	1,169	1,197	1,162	1,163	1,219	1,236	1,261	1,264	1,328	1,395	1,501
Stirling	505	499	481	478	470	468	485	500	544	544	554
West Dunbartonshire	191	209	204	205	206	206	213	220	223	220	228
West Lothian	711	700	682	675	671	688	693	724	724	730	753
Total trunk roads	16,504	16,546	16,222	16,313	16,791	16,987	17,112	17,342	17,977	18,519	19,138
Local authority roads											
Aberdeen City	1,115	1,075	1,053	1,039	1,040	1,041	1,067	1,075	1,092	1,117	1,118
Aberdeenshire	1,994	1,933	1,894	1,859	1,825	1,860	1,945	1,984	2,008	2,105	2,066
Angus	758	752	740	731	722	725	749	762	774	802	795
Argyll & Bute	548	541	532	526	516	525	542	551	561	566	517
Clackmannanshire ³	301	316	313	314	310	301	312	316	320	334	320
Dumfries & Galloway	719	708	700	693	676	684	709	724	737	777	768
Dundee City	722	703	687	688	685	676	693	695	703	713	725
East Ayrshire ³	684	674	668	662	647	656	679	691	704	761	740
East Dunbartonshire	547	547	534	533	529	525	542	544	553	581	588
East Lothian	508	503	501	498	484	488	508	516	524	589	598
East Renfrewshire ³	574	565	556	547	537	536	552	557	567	572	525
Edinburgh, City of	2,271	2,253	2,207	2,190	2,179	2,169	2,230	2,254	2,287	2,291	2,258
Eilean Siar	205	206	203	202	203	206	214	219	246	230	226
Falkirk	950	955	949	952	944	945	974	983	998	1,028	1,018
Fife	2,023	2,015	2,000	2,000	1,980	1,992	2,059	2,076	2,105	2,206	2,038
Glasgow, City of ³	2,124	2,089	2,042	2,027	2,011	2,014	2,056	2,039	2,069	2,079	2,089
Highland	1,078	1,067	1,055	1,044	1,024	1,044	1,086	1,105	1,123	1,164	1,211
Inverclyde	465	458	447	443	438	436	449	451	456	474	472
Midlothian	509	520	517	517	504	504	523	534	544	574	572
Moray	467	460	451	444	446	451	471	477	483	511	500
North Ayrshire	462	456	452	450	435	433	448	452	459	487	489
North Lanarkshire	1,894	1,871	1,840	1,829	1,822	1,819	1,867	1,875	1,893	2,007	2,063
Orkney Islands	137	137	135	133	131	133	139	142	145	148	143
Perth & Kinross	958	960	945	933	918	933	968	989	1,005	1,012	914
Renfrewshire ³	781	766	759	757	753	755	778	786	797	827	837
Scottish Borders	813	808	798	792	779	787	817	836	853	895	880
Shetland Islands	206	203	202	202	200	204	210	215	220	224	219
South Ayrshire	607	602	595	590	572	568	585	592	601	620	610
South Lanarkshire	1,298	1,294	1,282	1,273	1,258	1,254	1,296	1,311	1,335	1,361	1,265
Stirling ³	759	751	747	733	718	719	744	753	765	783	783
West Dunbartonshire	439	438	429	431	434	432	443	444	451	455	459
West Lothian	1,051	1,046	1,034	1,042	1,038	1,039	1,071	1,085	1,105	1,175	1,193
Total LA roads	27,966	27,673	27,266	27,077	26,757	26,853	27,727	28,032	28,482	29,467	28,998

1. Source: Department for Transport - Not National Statistics. They provide only a rough estimate of the likely total volume of traffic on roads in each area. For further information, please see the notes on the traffic estimates in the text.

2. Roads which changed from trunk to local authority, or vice versa, are counted according to their status on a recent date, rather than on the basis of their status in each year.

NB: to save space, Councils which do not have trunk roads in their areas are not shown.

3. DfT have made some minor changes to the traffic estimates from 2006 onwards. This was due to incorrect LA codes being assigned to a few sections of major road.

4. DfT have made some small revisions to 2014 and 2016 estimates. Totals may not equal sum of parts due to rounding.

Table 5.5(continued) Traffic on all roads, by Council area¹

	2008	2009	2010	2011	2012	2013	2014 ³	2015	2016 ³	2017	2018
	<i>million vehicle kilometres</i>										
All roads											
Aberdeen City	1,379	1,329	1,308	1,297	1,303	1,301	1,331	1,338	1,365	1,384	1,390
Aberdeenshire	2,814	2,762	2,716	2,683	2,686	2,732	2,847	2,892	2,956	3,146	3,017
Angus ²	1,086	1,075	1,075	1,065	1,065	1,082	1,119	1,120	1,141	1,174	1,159
Argyll & Bute	904	900	884	879	866	879	904	927	952	985	973
Clackmannanshire ²	301	316	313	314	310	301	312	316	320	334	336
Dumfries & Galloway	2,021	1,998	1,974	1,963	1,927	1,956	2,020	2,073	2,124	2,244	2,212
Dundee City	902	885	867	865	871	858	862	863	877	884	899
East Ayrshire ²	1,052	1,050	1,033	1,027	1,012	1,015	1,053	1,060	1,056	1,110	1,122
East Dunbartonshire	547	547	534	533	529	525	542	544	553	581	588
East Lothian	880	862	855	852	833	836	868	877	915	1,003	1,005
East Renfrewshire ²	750	747	728	755	741	745	766	787	804	806	812
Edinburgh, City of	2,957	2,978	2,885	2,902	2,879	2,888	2,945	3,009	3,066	3,067	3,192
Eilean Siar	205	206	203	202	203	206	214	219	246	230	226
Falkirk	1,517	1,505	1,479	1,489	1,521	1,526	1,555	1,592	1,645	1,666	1,667
Fife	2,891	2,894	2,848	2,839	2,800	2,825	2,902	2,917	2,983	3,101	3,060
Glasgow, City of ²	3,429	3,390	3,329	3,341	3,492	3,537	3,566	3,537	3,617	3,651	3,632
Highland	2,597	2,623	2,586	2,580	2,552	2,590	2,643	2,719	2,798	2,884	2,943
Inverclyde	541	533	519	515	509	507	522	524	532	541	540
Midlothian	649	661	652	653	644	642	666	671	685	717	717
Moray	739	729	714	708	711	716	740	751	769	797	800
North Ayrshire	792	782	770	766	744	740	764	772	784	806	805
North Lanarkshire	3,060	3,025	3,001	2,959	3,235	3,222	3,120	3,066	3,110	3,296	3,386
Orkney Islands	137	137	135	133	131	133	139	142	145	148	143
Perth & Kinross	2,303	2,292	2,244	2,257	2,215	2,254	2,331	2,371	2,472	2,620	2,594
Renfrewshire ²	1,506	1,477	1,452	1,456	1,442	1,457	1,510	1,543	1,571	1,598	1,643
Scottish Borders	1,196	1,198	1,180	1,180	1,165	1,174	1,211	1,241	1,271	1,299	1,291
Shetland Islands	206	203	202	202	200	204	210	215	220	224	219
South Ayrshire	987	983	979	974	951	946	973	986	1,007	1,029	1,032
South Lanarkshire ²	2,468	2,491	2,444	2,436	2,476	2,490	2,557	2,575	2,662	2,755	2,766
Stirling ²	1,264	1,249	1,228	1,211	1,188	1,187	1,229	1,253	1,309	1,326	1,337
West Dunbartonshire	630	646	634	637	639	638	656	665	674	674	687
West Lothian	1,761	1,747	1,716	1,717	1,709	1,726	1,764	1,808	1,828	1,904	1,946
Total all roads	44,470	44,219	43,488	43,390	43,549	43,840	44,839	45,374	46,459	47,986	48,137

1. Source: Department for Transport - Not National Statistics. They provide only a rough estimate of the likely total volume of traffic on roads in each area. For further information, please see the notes on the traffic estimates in the text.

2. DfT have made some minor changes to the traffic estimates from 2006 to 2013. This was due to incorrect LA codes being assigned to a few sections of major road.

3. DfT have made some small revisions to 2014 and 2016 estimates. Totals may not equal sum of parts due to rounding.

Fig. 52 Selected points used to show average daily traffic flows, peak hourly flows and percentages of HGVs (see Table 5.7)



Table 5.6 Average Daily Traffic Flows¹ at Selected Automated Traffic Classifier Sites² by Month, 2018

Description	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
A74(M) J18 to 19	26,562	30,488	30,524	35,132	36,611	37,489	40,650	42,032	36,569	36,647	33,286	30,335
M8 Bishopton	22,576	26,082	24,602	25,846	27,933	26,865	26,721	27,728	25,583	26,881	26,434	23,281
M8 Harthill	45,298	49,946	48,453	52,272	54,928	54,929	54,144	57,399	54,122	55,309	55,283	48,403
M9 Linlithgow												
M73 Gartcosh	41,865	47,660	45,806	49,671	52,685	51,125	49,854	55,337	51,237	53,242	52,017	44,550
M74 J9				37,264	39,124	40,165	42,714	43,651	38,550	38,898		
M80 Bankhead	30,484	30,501	29,616	31,099	18,269	29,648	35,145	34,597	33,822	33,807	36,190	
M90 Kelty	24,863	20,024	19,095	24,945	34,991	35,393	35,173	35,869	34,165	32,765	31,266	11,964
A1 Grantshouse				9,639	10,242	10,553	11,659	11,612	10,467	10,247	9,013	8,666
A7 Langholm	3,099	3,345	3,292	3,732	3,925	3,902	3,758	3,978	3,834	3,711	3,663	3,377
A9 Berridale					2,835	2,795	2,966	2,578	2,673			
A9 Blackford	10,987	12,668	11,956		14,800	14,544		15,457	14,135	14,796	13,338	11,851
A9 Dornoch	4,894	5,497	5,734	6,716	7,558	7,730	8,186	8,492	7,407	6,792	6,064	5,454
A9 Tomatin	7,505	8,883	8,676	10,610	11,833	11,839	12,534	13,584	11,544			
A68 Jedburgh				5,383	6,136	6,237	6,285	6,614	6,149	5,950	5,452	4,974
A68 Pathhead	8,130	8,745	7,801	9,790	10,620	10,645	10,099	11,102	10,140	10,086	9,724	8,595
A75 Carsluith	3,965	4,455	4,672	4,997	5,495	5,467	5,750	6,137	5,384	4,909	4,549	4,122
A75 Southeast of A751	5,930	6,633	6,969	6,962	7,563	7,432	7,216	6,933	6,546	5,600	6,094	5,448
A76 Mennock	2,492	3,023	3,016	3,145	3,581	3,368	3,384	3,609	3,345	3,079	2,996	2,740
A77 Lendalfoot	2,552	2,808	2,944	3,444	3,749	3,728	4,174	4,070	3,649	3,274	3,059	2,897
A77 Kilmarnock	23,722	26,810	27,123	29,229	30,982	30,390	30,172	30,999	28,665	29,615	28,135	25,049
A78 Loans	16,478	18,480	18,742	19,032	21,169	19,465	18,645	19,753	19,112	19,235	18,852	16,517
A80 Cumbernauld	62,845	71,464	68,521	76,355	79,199	78,665	77,453	82,121	77,548	79,660	75,358	62,610
A82 Ballachulish	3,347	4,091	4,353	5,577	7,243	7,144	7,535	8,001	6,447	5,150	3,790	3,391
A82 Spean Bridge	2,591											
A83 Ardrishaig	2,126	2,470	2,529	2,712	3,339	3,211	3,325	3,374	3,043	2,727	2,572	2,287
A85 Riverside Dundee	14,832	15,297	15,176	17,508	18,498	18,110	18,268	15,562	16,052	15,851	17,235	15,622
A87 Broadford												
A87 Kyle of Lochalsh	2,450	2,918	2,857	3,460	4,951	4,738	5,131	4,272	2,700	2,045	1,781	1,449
A90 Stonehaven	15,178	18,965	18,782	20,281	22,921	22,765	23,738	23,763	22,366	23,197	23,555	17,230
A90 Bridge of Don				22,531	22,988	21,907	21,398	21,966	20,928	21,170	22,370	19,551
A96 Forres	9,278	10,275	10,630	11,465	11,379	11,763	12,018	12,529				
A702 Fulford				7,345	8,259	11,040	11,375	12,012	11,112	10,187	13,398	10,854
A720 Dregghorn		69,978	74,006	80,006	85,182	90,306	88,612	93,530	90,482	90,704	89,134	78,592
A737 Lochside	10,084			22,032	23,212	21,507	21,304	21,721	20,549			
A835 Aultguish	1,003	1,201	1,284	1,782	2,209			2,379	2,024	1,592	1,298	1,130
A977 Kincardine			4,409	4,286	4,673	4,641	4,304	4,350	4,225	4,475	4,394	4,146

Source: Transport Scotland - Not National Statistics

- Traffic flows are counted in both directions at ATC sites and the average flows are based on totals.
- Missing data for these sites is due to equipment failure.

Table 5.7(a) Average daily traffic flows, peak hourly flows and percentages of HGVs for selected key points: 2018 ^{1,2}

Location	Site No. in Fig 5.2	Average Daily Flow				HGV (Year) Percentage		Peak Hourly Flows			
		7 Day		5 Day		7 Day	5 Day	AM		PM	
		Year	August	Year	August			7 Day	5 Day	7 Day	5 Day
A74(M) J18 to J19	1	34,694	42,032	36,662	43,302	..	..	2,559	2,586	2,808	2,863
M8 Bishopton	2	25,878	27,728	27,990	29,769	14	15	1,999	2,534	2,240	2,474
M8 Harthill	3	52,541	57,399	57,271	61,653	7	8	3,540	4,253	4,027	4,403
M9 Linlithgow	4	..	..	..	..	..	..	..	..	..	..
M73 Gartcosh	5	49,587	55,337	55,681	60,861	23	25	3,747	4,864	4,544	5,313
M74 J9	37	32,939	43,651	34,849	45,273	..	..	2,466	2,516	2,701	2,773
M80 Bankhead	6	31,198	34,597	33,190	35,402	17	19	2,356	2,715	2,444	2,602
M90 Kely	7	28,376	35,869	29,418	36,843	4	5	1,971	2,118	2,360	2,484
A1 Grantshouse	8	10,233	11,612	10,463	11,937	3	4	829	824	839	851
A7 Langholm	9	3,635	3,978	3,912	4,221	26	28	286	322	306	340
A9 Berridale	10	2,769	2,578	2,828	2,578	3	4	238	242	274	274
A9 Blackford	11	13,453	15,457	13,991	15,764	..	..	967	1,157	979	975
A9 Dornoch	12	6,710	8,492	7,066	8,849	9	11	526	548	597	621
A9 Tomatin	13	10,779	13,584	11,093	13,718	7	8	848	861	917	917
A68 Jedburgh	14	5,909	6,614	6,220	6,897	2	3	465	481	502	524
A68 Pathhead	15	9,623	11,102	10,155	11,522	5	7	696	773	796	828
A75 Carsluith	16	4,992	6,137	5,340	6,404	24	27	388	411	429	457
A75 Southeast of A751	17	6,611	6,933	7,113	7,301	..	..	482	532	558	587
A76 Mennock	18	3,148	3,609	3,413	3,827	19	22	234	272	276	305
A77 Lendalfoot	19	3,362	4,070	3,470	4,118	27	31	298	309	331	328
A77 Kilmarnock	20	28,408	30,999	29,884	32,273	4	5	1,911	2,287	2,386	2,535
A78 Loans	21	18,790	19,753	20,612	21,565	3	4	1,536	1,947	1,680	1,925
A80 Cumbernauld	36	74,317	82,121	79,994	87,581	17	18	4,786	6,016	5,981	6,535
A82 Ballachulish	22	5,506	8,001	5,349	7,685	14	16	477	452	509	486
A82 Spean Bridge	23	2,591	..	2,746	..	8	8	210	221	251	262
A83 Ardrishaig	24	2,810	3,374	3,029	3,565	16	18	226	254	272	289
A85 Riverside Dundee	25	16,501	15,562	17,597	16,335	3	3	1,277	1,566	1,399	1,517
A87 Broadford	26	..	..	..	..	..	..	..	..	..	..
A87 Kyle of Lochalsh	27	3,229	4,272	3,382	4,430	5	8	307	315	298	313
A90 Stonehaven	28	21,062	23,763	23,558	26,116	..	..	1,826	2,178	2,165	2,562
A90 Bridge of Don	29	21,645	21,966	23,193	23,438	3	4	1,612	1,927	1,928	2,062
A96 Forres	30	11,167	12,529	11,667	12,967	5	6	804	854	983	1,047
A702 Fulford	31	10,620	12,012	11,528	12,768	4	5	847	1,047	968	1,106
A720 Dregghorn	35	84,594	93,530	90,209	99,290	3	4	5,655	6,334	6,651	7,053
A737 Lochside	32	20,058	21,721	21,179	23,126	5	6	1,397	1,650	1,716	1,833
A835 Aultguish	33	1,590	2,379	1,619	2,362	9	10	182	195	180	194
A977 Kincardine	34	4,390	4,350	4,745	4,692	7	8	337	380	389	431

Source: Transport Scotland - Not National Statistics

1. 7 day flows were calculated from Monday to Sunday inclusive, '5 day flows' were calculated from Monday to Friday inclusive

2. Missing data for some sites is due to equipment failure. Year averages may be based only on data for part of the year, in cases where equipment was not working in some months.

Table 5.7(b) Average daily traffic flows for selected key points^{1,2}

Location	Site No in Fig 5.2	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
A74(M) J18 to J19	1	31,910	31,047	31,164	30,902	31,410	32,906	33,313	34,718	..	34,694
M8 Bishopton	2	24,838	24,563	24,186	24,059	25,318	25,475	..	16,766	18,954	25,878
M8 Harthill	3	55,589	55,911	53,629	50,170	40,526	..	53,566	51,129	28,292	52,541
M9 Linlithgow	4	26,070	28,706	..	28,190	24,853	..	..	10,877	..	..
M73 Gartcosh	5	38,597	35,666	36,786	41,685	43,330	45,500	43,588	32,419	..	49,587
M74 J9	37	28,620	34,060	33,020	29,454	33,302	..	35,795	33,385	21,905	40,052
M80 Bankhead	6	..	..	..	33,758	35,386	..	..	37,934	23,401	31,198
M90 Kelty	7	32,832	32,304	29,572	31,286	31,117	32,224	31,787	31,108	21,704	28,376
A1 Grantshouse	8	8,845	8,616	8,446	8,284	8,427	7,063	8,047	..	9,026	10,233
A7 Langholm	9	3,336	3,434	3,434	3,426	3,487	3,576	3,614	3,752	2,808	3,635
A9 Berridale	10	2,089	1,938	1,603	1,806	1,714	..	..	..	..	2,769
A9 Blackford	11	24,690	23,671	24,098	24,672	25,667	24,456	26,338	13,614	1,185	13,453
A9 Dornoch	12	5,743	5,721	5,922	5,863	5,934	6,100	6,211	6,654	6,207	6,710
A9 Tomatin	13	8,987	8,850	8,725	8,453	8,749	10,314	9,307	9,688	7,769	10,779
A68 Jedburgh	14	5,860	5,530	5,668	5,882	5,574	5,493	5,437	5,498	..	5,909
A68 Pathhead	15	8,919	8,354	9,204	9,362	8,931	..	10,022	9,705	3,244	9,623
A75 Carsluith	16	4,849	4,724	4,658	4,598	4,244	5,302	4,714	4,860	4,365	4,992
A75 Southeast of A751	17	6,770	6,792	6,830	6,712	6,752	6,734	6,600	6,715	5,857	6,611
A76 Mennock	18	3,147	3,054	2,947	2,891	2,900	2,871	..	2,833	..	3,148
A77 Lendalfoot	19	..	..	..	..	..	..	..	..	3,852	3,362
A77 Kilmarnock	20	27,069	26,763	26,172	25,876	25,062	26,843	27,340	27,387	21,252	28,408
A78 Loans	21	15,295	15,074	14,542	13,873	13,096	13,619	14,378	18,597	13,203	18,790
A80 Cumbernauld	36	63,830	..	..	67,416	69,314	71,242	71,740	74,319	..	74,317
A82 Ballachulish	22	4,772	4,625	4,504	4,461	4,631	6,426	5,208	5,353	4,776	5,506
A82 Spean Bridge	23	3,629	3,351	3,289	3,084	4,103	1,729	..	5,582	2,413	2,591
A83 Ardrishaig	24	..	..	..	2,638	2,629	..	2,857	2,693	1,977	2,810
A85 Riverside Dundee	25	17,581	16,129	16,992	15,430	15,279	..	..	17,030	13,046	16,501
A87 Broadford	26	3,417	3,227	3,235	3,148	2,083	..	..	5,413	4,714	..
A87 Kyle of Lochalsh	27	3,577	3,367	3,088	3,307	3,418	3,581	3,947	3,779	3,326	3,229
A90 Stonehaven	28	26,778	26,907	26,704	25,796	33,486	39,205	26,650	24,856	9,900	21,062
A90 Bridge of Don	29	17,308	17,860	16,875	17,143	17,412	17,773	18,157	22,875	..	21,645
A96 Forres	30	11,309	11,416	11,075	11,097	10,244	10,820	10,651	10,962	4,807	11,167
A702 Fulford	31	11,295	10,334	..	11,146	10,181	13,786	11,963	11,496	9,876	10,620
A720 Dregghorn	35	79,936	77,735	74,858	75,697	76,704	78,110	78,624	79,650	..	84,594
A737 Lochside	32	21,755	21,528	21,199	20,512	20,311	20,787	22,055	22,448	13,824	20,058
A835 Aultguish	33	1,628	1,246	1,788	1,749	1,048	1,767	1,694	1,803	1,014	1,590
A977 Kincardine	34	4,583	4,370	4,436	4,536	4,532	4,405	4,613	4,368	4,340	4,390

Source: Transport Scotland - Not National Statistics

1. Flows were calculated from Monday to Sunday inclusive.

2. Missing data for some sites is due to equipment failure. Year averages may be based only on data for part of the year, in cases where equipment was not working in some months.

Table 5.8 Car drivers' journeys¹ - whether delayed by traffic congestion² and, if so, how much time was lost³: 2016-18 (combined)⁵

	NOT delayed due to traffic congestion	Delayed due to traffic congestion: driver's estimate of the time lost due to traffic congestion							Sample size (=100%)
		none, or just 1-2 minutes	about 5 mins (3-7)	about 10 mins (8-12)	about 15 mins (13-17)	20 to 30 mins ⁴ (18-32)	over half an hour (33+)	All delayed journeys	
<i>row percentages</i>									<i>n =</i>
All car driver journeys	88	1	4	4	1	2	1	13	29,150
by purpose of journey:									
Commuting	78	1	6	7	3	4	1	22	7,800
Business	82	-	5	6	2	3	1	18	970
Education	87	1	6	5	1	1	-	13	1,290
Shopping	94	1	3	1	-	1	-	6	6,640
Visit hospital or other health	89	-	6	1	1	2	-	11	710
Other personal business	93	1	2	1	1	1	-	7	1,450
Visit friends or relatives	92	1	3	2	1	1	-	8	3,320
Eating/drinking	93	-	4	3	-	-	-	7	500
Entertainment	89	1	3	2	1	3	-	11	400
Sport	92	1	4	2	-	1	-	8	1,360
Holiday/day trip ⁴	88	-	3	5	1	1	1	12	380
Other	90	-	3	4	1	1	-	10	660
Escort	91	-	5	3	-	-	-	9	770
Go home	90	1	4	3	1	1	1	10	2,260
Just go for a walk	94	1	3	1	1	-	-	6	510
by day of the week:									
Monday	87	1	4	4	2	2	-	13	5,360
Tuesday	85	1	5	5	2	2	1	15	5,040
Wednesday	85	1	5	4	2	3	1	15	5,330
Thursday	85	1	5	4	2	2	1	15	4,080
Friday	85	1	4	5	2	2	1	15	3,540
Saturday	94	-	3	2	1	1	-	6	2,110
Sunday	95	-	2	1	-	-	-	5	3,700
Weekday journeys - by start time									
midnight to 6:59 a.m.	87	-	2	4	2	3	1	13	940
7:00 to 7:59 a.m.	74	1	6	7	4	6	2	26	1,510
8:00 to 8:59 a.m.	77	1	8	8	3	2	-	23	2,040
9:00 to 9:59 a.m.	90	1	4	3	1	1	-	10	1,350
10:00 to 10:59 a.m.	92	1	3	1	1	1	-	8	1,410
11:00 to 11:59 a.m.	94	1	3	2	-	1	-	6	1,560
noon to 12:59 p.m.	92	1	3	2	-	1	-	8	1,430
1:00 to 1:59 p.m.	91	1	4	2	1	1	-	9	1,330
2:00 to 2:59 p.m.	91	-	4	3	1	1	-	9	1,660
3:00 to 3:59 p.m.	87	-	5	4	1	2	-	13	1,890
4:00 to 4:59 p.m.	76	1	8	6	3	4	2	24	2,230
5:00 to 5:59 p.m.	71	1	8	10	3	5	1	29	2,100
6:00 to 6:59 p.m.	87	2	4	3	2	1	-	13	1,380
7:00 to 7:59 p.m.	97	-	2	1	-	-	-	3	950
8:00 to 8:59 p.m.	98	-	2	1	-	-	-	2	620
9:00 to 9:59 p.m.	98	-	1	-	-	-	-	2	510
10:00 to 11:59 p.m.	98	-	1	-	-	1	-	2	440
Weekend journeys - by start time:									
Before 9:30am	95	-	2	1	-	1	-	5	610
After 9:30am to before 12noon	95	-	2	1	1	-	-	5	1,190
12noon to 2 pm	95	1	2	2	-	-	-	5	1,420
After 2pm to before 4:30pm	93	-	3	2	1	1	-	7	1,080
4:30pm to before 6:30pm	91	1	4	2	1	1	-	9	820
6:30pm onwards	98	-	1	1	-	1	-	2	700
by type of area in which driver lives:									
Large urban areas	84	1	5	5	2	2	1	16	6,630
Other urban areas	87	1	4	4	1	2	1	13	9,950
"Accessible" small towns	89	-	3	4	1	2	-	11	2,790
"Remote" small towns	95	-	2	1	1	1	-	5	1,880
"Accessible" rural areas	89	-	4	3	2	2	-	11	3,930
"Remote" rural areas	95	-	2	1	1	1	-	5	3,980

1 This information is obtained from the Scottish Household Survey Travel Diary questions about the (stages of) journeys which the respondent had said that he or she made as the driver of a car or van

The table does *not* include those (stages of) journeys for which the questions about traffic congestion were *not* asked

2 Car drivers were asked "was this part of your trip delayed due to traffic congestion?"

No definition of "traffic congestion" is given, so respondents can interpret the term as they wish.

3 Those drivers who said that they had been delayed by traffic congestion were asked

"how much time do you think was lost due to traffic congestion?"

4 Previously split into 'about 20 mins' and '25 to 30 mins' but now combined to be '20 to 30 mins'. If previous split needed please request via Transtat@transportscotland.gsi.gov.uk

5 Three years' data are combined, whereas in previous year just one year's data was given. There was little change over the years and combining gives fewer suppressed values.

Table 5.9a: Percentage of car/van stages delayed by traffic congestion

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2015-17 ¹	2016-18 ¹
Driver congestion	13.1	11.0	10.5	11.2	9.9	9.7	11.7	12.4	11.7	12.8	13.0
Sample size (=100%)	9,320	8,680	7580	8,320	9,830	10,200	9,820	9,690	9,810	9,960	9,390

Table 5.9b Percentage of bus stages where passenger experienced delay

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Service Bus	14.4	9.9	12.3	10.5	11.1	10.2	10.7	9.9	10.0	12.5	10.5
Sample size (=100%)	1,720	1,460	1310	1,440	1,540	1,690	1,630	1,690	1,480	1,480	1,510

1. Three years' data are combined, whereas in previous year just one year's data was given. There was little change over the years, and combining gives fewer suppressed values.

Table 5.10 Petrol and diesel consumption of road vehicles

	2008 ²	2009 ²	2010 ²	2011 ²	2012 ²	2013 ²	2014 ²	2015 ²	2016 ²	2017 ²
	<i>thousands of tonnes</i>									
by type of vehicle										
Buses	173.6	173.6	177.1	164.1	156.6	161.4	161.9	155.1	148.4	154.0
Diesel cars	739.7	756.4	760.5	795.7	833.7	869.4	909.6	933.2	951.5	1,000.2
Petrol cars	1,295.9	1,272.7	1,200.8	1,145.6	1,097.1	1,036.8	1,012.8	973.2	944.9	924.9
Motorcycles	12.4	12.6	11.3	11.4	11.1	10.9	11.3	11.1	10.7	11.5
Heavy Goods Vehicles	605.2	560.4	560.8	544.8	544.8	550.7	559.0	561.5	572.7	593.5
Diesel Light Goods Vehicles	439.0	435.6	442.1	445.6	447.9	460.8	488.2	509.7	540.3	580.7
Petrol Light Goods Vehicles	34.7	31.8	29.2	26.8	24.6	22.9	21.9	20.5	19.4	18.2
Total	3,300.6	3,243.2	3,181.8	3,134.0	3,115.8	3,112.9	3,164.7	3,164.3	3,187.8	3,283.0
by Council area¹										
Aberdeen City	98.1	94.1	92.4	90.4	89.4	89.0	90.4	89.6	89.6	90.5
Aberdeenshire	186.8	181.7	178.2	173.9	172.7	174.6	180.7	181.4	184.5	197.0
Angus	76.5	74.8	74.8	73.1	72.5	73.1	75.0	74.2	74.5	76.8
Argyll & Bute	58.2	57.5	56.7	55.9	55.0	55.4	56.6	57.9	58.9	61.0
Clackmannanshire	20.7	20.6	20.4	20.0	19.5	18.9	19.4	19.3	19.5	20.1
Dumfries & Galloway	173.4	167.3	165.6	164.0	161.0	162.3	165.2	170.4	172.5	182.2
Dundee City	66.6	65.1	63.6	62.3	61.4	60.2	60.4	59.1	59.1	59.5
East Ayrshire	76.0	75.2	73.7	72.5	70.6	70.3	72.0	71.8	70.5	73.5
East Dunbartonshire	42.7	42.6	41.4	40.5	39.3	38.7	39.7	38.8	39.0	39.6
East Lothian	64.6	62.1	61.1	60.2	58.1	57.8	59.4	59.4	60.9	66.2
East Renfrewshire	55.3	54.8	53.9	53.0	50.7	50.8	51.8	51.7	52.4	52.3
Edinburgh, City of	249.2	247.3	239.4	234.4	228.9	228.3	230.6	232.6	235.0	229.9
Eilean Siar	14.2	14.3	14.3	14.2	14.0	14.0	14.3	14.5	14.7	13.4
Falkirk	110.0	108.2	105.7	105.2	109.9	109.5	112.9	114.2	116.3	117.5
Fife	198.4	195.6	191.5	188.6	183.3	183.2	186.6	184.6	184.8	191.3
Glasgow, City of	279.0	272.3	266.9	265.0	267.6	267.9	267.3	262.3	264.7	264.2
Highland	171.2	172.0	169.6	168.1	165.9	167.5	169.7	173.5	176.1	181.5
Inverclyde	37.8	36.9	35.8	34.9	33.8	33.5	34.1	33.6	33.7	34.0
Midlothian	45.7	45.0	44.0	43.6	42.2	41.8	43.0	42.5	43.1	45.0
Moray	48.2	47.4	46.4	45.5	45.1	45.3	46.6	46.8	47.6	49.2
North Ayrshire	55.3	54.1	53.0	52.2	50.0	49.3	50.2	50.2	50.2	51.2
North Lanarkshire	235.3	231.3	226.6	220.6	243.1	240.0	244.3	234.6	233.5	247.2
Orkney Islands	8.5	8.5	8.4	8.2	8.0	8.1	8.4	8.5	8.8	8.9
Perth & Kinross	181.6	178.4	175.0	174.7	170.9	171.8	174.2	176.6	177.0	186.9
Renfrewshire	111.9	108.8	106.6	105.4	103.1	103.4	105.1	105.6	105.3	107.2
Scottish Borders	78.9	78.4	77.1	76.3	74.5	74.6	76.5	77.9	78.9	80.5
Shetland Islands	12.7	12.4	12.3	12.1	11.9	12.1	12.4	12.6	12.9	13.1
South Ayrshire	69.3	68.4	67.9	66.7	64.1	63.6	64.8	65.0	65.2	67.1
South Lanarkshire	213.8	212.4	208.3	205.1	206.5	206.3	207.7	207.3	209.8	221.8
Stirling	88.7	86.2	84.4	82.3	80.3	79.3	81.2	82.1	83.7	85.5
West Dunbartonshire	46.2	46.8	45.8	45.4	45.0	44.6	45.4	45.3	44.9	44.6
West Lothian	125.7	123.1	121.1	119.6	117.6	117.6	118.8	120.6	120.4	124.5
Total	3300.6	3243.2	3181.8	3134.0	3115.8	3112.9	3164.7	3164.3	3187.8	3283.0

Source: DECC - Years prior to 2005 are not National Statistics

1. These estimates are of the total amount of petrol and diesel consumed by vehicles travelling in each Council area (i.e. the estimates are based on where the vehicles were driven, rather than - say - the area of the registered keepers of the vehicles).

2. There have been major revisions to the data due to improvements in the methodology. For more information please see here:

<https://www.gov.uk/government/collections/road-transport-consumption-at-regional-and-local-level#methodology>

Chapter 6: Reported Injury Road Accidents

- Number and severity of injury road accidents
- Number and severity of casualties
- Costs of injury and non-injury accidents

8,411

road accident casualties in Scotland in 2018

11% lower than the previous year







161

People were killed in road accidents 11% more than 2017



Road accident casualties by mode of transport:

	Share of total	% change in casualties by mode since 2017
	60%	-11%
	15%	-8%
	8%	-13%
	8%	+3%







1,582 people recorded as seriously injured in road accidents in 2018, 12 less than in 2017



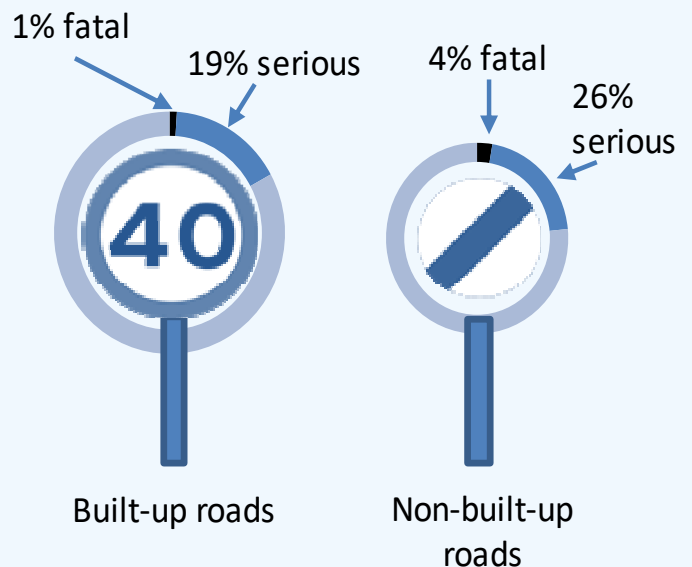
1%

6,668 people recorded as slightly injured in road accidents in 2018, 1,026 less than in 2017

Modal share of vehicle types involved in accidents in 2018

Share of all road accidents		% change in number of vehicles involved since 2017
73%		-11%
7%		-4%
6%		+5%
6%		-13%
3%		-7%
2%		-10%

Accidents on built-up roads (roads with a speed limit of 40 mph or less) are less likely to be serious or fatal



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REPORTED INJURY ROAD ACCIDENTS

1. Introduction

1.1 This chapter provides information on injury road accidents which were reported to the police, such as the number and severity of accidents, the police force area in which the accidents occurred, the types of vehicle involved, the number and severity of casualties resulting from the accidents, and the costs of injury and non-injury accidents.

More information can be found in the Transport Scotland National Statistics publication Reported Road Casualties Scotland: <http://bit.ly/2hi2pou>.

Key points

- There were 161 people killed in road accidents in 2018, 16 (11%) more than the previous year.
- There were 1,582 people recorded as seriously injured in road accidents in 2018, 12 (1%) less than in 2017.
- Three quarters of casualties in 2018 were car users or pedestrians. Sixty per cent of casualties were car users and 15 per cent were pedestrians. Pedal cycles accounted for 8 per cent and Motorcycles for 8 per cent.

2. Main Points

Accidents

2.1 There were 6,423 injury road accidents reported in 2018, 695 (10%) fewer than in 2017. The number of reported accidents has been falling over the past ten years, and in 2018 was 47% lower than in 2008; the lowest figure since current records began in 1970. There were 150 fatal accidents in 2018: 10 (7%) less than in 2017. The reported number of accidents in which someone was seriously injured, but no-one died decreased by 1% to 1,369 and the number of reported slight accidents (4,904) was 696 (12%) fewer than the previous year. (*Table 6.1*)

2.2 In 2018, over one third of all reported injury road accidents (2,392: 37%) were on non-built up roads (speed limit of more than 40 m.p.h. - see Notes and Definitions section, page 225). However, such roads accounted for a higher proportion of fatal accidents (107: 71%), partly because speeds tend to be higher on non-built up roads than on built up roads. There was a smaller decrease in accidents on non-built up roads (down by 5%) between 2017 and 2018 compared to a decrease in accidents on built up roads of 12%. (*Table 6.1*)

2.3 The long term trends in the number of injury road accidents reported between 2008 and 2018 varied between the Police Force divisions across Scotland, ranging from a 29% fall (East Ayrshire) to a 75% fall (Moray). The figures for an area may fluctuate from year to year, especially in smaller areas, although the trends appear to be downwards. (*Table 6.2*)

2.4 There were 11,399 vehicles involved in reported injury road accidents in 2018. Almost three-quarters of them were cars (8,367: 73%); light goods vehicles were the next vehicle type most often involved in accidents (759: 7%), though pedal cycles are a similar proportion. (*Table 6.3*) Up until 2010, the number of motorcycles involved was higher than the number of pedal cycles but since then there has been a fall in motorcycle traffic and an increase in pedal cycle traffic. *The number of vehicles involved in accidents should always be considered alongside the traffic estimates in Chapter 5.*

Casualties

2.5 161 people were killed in road accidents in 2018, 16 (11%) more than the previous year. This was 51% less than the 2004-08 average, the time period used as the baseline for Scotland's Road Safety Framework to 2020. (Table 6.4) Further analysis of progress against the Road Safety Framework Targets can be found in article 1 of Reported Road Casualties Scotland 2018.

2.6 There were 1,582 people recorded as seriously injured in road accidents in 2018, 12 (1%) less than in 2017, 39% less than the 2004-08 average. 6,668 people were recorded as slightly injured in 2018, 1,026(13%) fewer than in 2017, and the lowest recorded. There were a total of 8,411 casualties in 2018, 1,022 (11%) lower than in 2017. (Table 6.4)

2.7 In the context of the total volume of traffic on the roads in Scotland, the 8,411 total casualties recorded represented 17.47 casualties per 100 million vehicle kilometres. The Road Safety Framework also monitors the numbers of slight injuries per 100 million vehicle kilometres. The 6,668 people who were recorded as slightly injured in 2018 represented 13.85 casualties per 100 million vehicle-kilometres. This was 57% below the overall slight casualty rate for the 2004-08 baseline period for Scotland's Road Safety Framework. (Table 6.4)

Child casualties

2.8 There were 753 reported child casualties in 2018, representing 9% of the total number of casualties of all ages. There were 3 child fatalities, 142 children were seriously injured (56% less than the 2004-08 average), and 608 were classified as slightly injured. Due to the relatively small number of child fatalities, these are monitored using a three year average to remove the effect of year on year fluctuations. In the three years to 2018, there was an average of 6 child fatalities. The number of child serious casualties decreased by 11 (7%) between 2017 and 2018. Slight casualties were down by 137. (Table 6.4)

Casualty Rates & Costs

2.9 Table 6.5 provides road casualty rates per thousand population by age group and mode of transport. Overall, there were 1.55 casualties per thousand population in 2018. The casualty rate for children (0-15 years) was 0.82 per thousand population. However, the child and young adult pedestrian casualty rates (0.36 and 0.25 per thousand population respectively) were much higher than the pedestrian casualty rate for adults (0.19). The total young persons' (16-24 years) casualty rate in 2018 was 2.46 per thousand population, just under twice the rate for all ages. The young persons' casualty rate in cars (1.80 per thousand population) was almost double the rate for adults aged 25-59 (which was 1.07 per thousand population). Further information about the mid-year population estimates used to calculate these rates can be found at the National Records of Scotland, here <http://www.nrscotland.gov.uk/statistics-and-data/statistics/statistics-by-theme/population/population-estimates/mid-year-population-estimates> (Table 6.5)

2.10 The cost of all road accidents (including damage only non-injury accidents) in 2018 is estimated at £1,029 million at 2018 prices. (Table 6.6)

REPORTED INJURY ROAD ACCIDENTS

Table 6.1 Reported accidents by type of road and severity

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Built up roads											
Fatal	82	56	56	61	64	44	67	47	44	44	43
Serious	1,277	1,033	925	953	985	806	854	833	815	792	748
Fatal and Serious	1,359	1,089	981	1,014	1,049	850	921	880	859	836	791
Slight	6,105	5,902	5,360	5,345	5,116	4,897	4,782	4,521	4,606	3,756	3,240
All severities	7,464	6,991	6,341	6,359	6,165	5,747	5,703	5,401	5,465	4,592	4,031
Non-built up roads											
Fatal	163	140	133	114	98	115	114	110	131	96	107
Serious	965	965	788	722	751	619	634	588	617	586	621
Fatal and Serious	1,128	1,105	921	836	849	734	748	698	748	682	728
Slight	3,567	3,460	3,033	2,790	2,763	2,493	2,382	2,378	2,141	1,844	1,664
All severities	4,695	4,565	3,954	3,626	3,612	3,227	3,130	3,076	2,889	2,526	2,392
All roads											
Fatal	245	196	189	175	162	159	181	157	175	140	150
Serious	2,242	1,998	1,713	1,675	1,736	1,425	1,488	1,421	1,432	1,378	1,369
Fatal and Serious	2,487	2,194	1,902	1,850	1,898	1,584	1,669	1,578	1,607	1,518	1,519
Slight	9,672	9,362	8,393	8,135	7,879	7,390	7,164	6,899	6,747	5,600	4,904
All severities	12,159	11,556	10,295	9,985	9,777	8,974	8,833	8,477	8,354	7,118	6,423

Table 6.2 Reported accidents by police force division and local authority area

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
North East ¹	1,400	1,329	1,090	1,019	1,047	930	784	657	583	467	424
Aberdeen City	514	445	350	364	385	349	273	229	175	155	135
Aberdeenshire	692	687	599	518	533	462	419	347	334	252	240
Moray	194	197	141	137	129	119	92	81	74	60	49
Tayside	931	909	741	750	742	642	533	472	421	459	406
Angus	286	232	192	220	202	178	141	145	111	135	126
Dundee City	270	281	219	237	227	185	168	126	135	120	96
Perth & Kinross	375	396	330	293	313	279	224	201	175	204	184
Argyll & West Dunbartonshire	436	455	436	377	344	350	304	346	306	288	240
Argyll & Bute	288	282	275	232	211	208	193	227	178	174	156
West Dunbartonshire	148	173	161	145	133	142	111	119	128	114	84
Forth Valley	680	634	538	545	568	556	460	508	481	405	327
Clackmannanshire	85	77	69	64	84	69	62	62	69	48	36
Falkirk	310	303	240	261	270	248	229	250	235	216	164
Stirling	285	254	229	220	214	239	169	196	177	141	127
Dumfries & Galloway	419	388	360	319	320	303	311	278	269	236	259
Ayrshire	698	706	576	653	580	540	543	590	570	453	435
East Ayrshire	230	215	201	204	173	162	164	205	179	131	163
North Ayrshire	248	225	177	230	205	188	179	192	186	165	147
South Ayrshire	220	266	198	219	202	190	200	193	205	157	125
Greater Glasgow	1,901	1,761	1,581	1,540	1,527	1,282	1,436	1,393	1,467	1,260	1,039
East Dunbartonshire	141	147	141	140	114	102	101	94	93	88	59
East Renfrewshire	109	103	104	116	97	98	92	93	95	95	70
Glasgow City	1,651	1,511	1,336	1,284	1,316	1,082	1,243	1,206	1,279	1,077	910
Lothians & Scottish Borders	1,257	1,152	1,083	994	1,029	944	900	972	857	785	703
East Lothian	193	174	199	159	170	154	178	158	158	158	128
Midlothian	221	207	193	177	216	165	188	189	166	134	119
Scottish Borders	383	363	307	274	263	255	221	221	202	185	173
West Lothian	460	408	384	384	380	370	313	404	331	308	283
Edinburgh	1,285	1,192	1,179	1,181	1,167	1,157	1,263	1,110	1,140	905	772
Highlands & Islands	702	724	574	568	594	511	517	448	458	353	438
Eilean Siar	60	39	42	35	28	20	37	32	24	17	21
Highland	586	616	475	488	514	443	432	379	383	309	394
Orkney Islands	36	27	27	13	22	23	24	12	25	11	10
Shetland Islands	20	42	30	32	30	25	24	25	26	16	13
Fife	576	588	556	447	421	420	410	428	452	317	327
Renfrewshire & Inverclyde	565	458	485	509	472	374	387	368	401	351	289
Inverclyde	195	146	165	155	136	120	130	110	112	91	79
Renfrewshire	370	312	320	354	336	254	257	258	289	260	210
Lanarkshire	1,309	1,260	1,096	1,083	966	965	985	907	949	839	764
North Lanarkshire	639	664	585	569	512	510	482	451	483	444	382
South Lanarkshire	670	596	511	514	454	455	503	456	466	395	382
Scotland	12,159	11,556	10,295	9,985	9,777	8,974	8,833	8,477	8,354	7,118	6,423

Note: Detailed figures for casualties by local authority area can be found in Reported Road Casualties Scotland table B
 1. In 2015 the police created a new North East division by combining Aberdeen City, Moray and Aberdeenshire councils.

REPORTED INJURY ROAD ACCIDENTS

Table 6.3 Reported vehicles involved by type of vehicle

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Pedal cycle	768	821	810	855	934	919	924	829	809	752	657
Motor cycle ¹	1,050	1,038	859	827	890	777	835	738	710	607	640
Car	15,061	14,578	12,805	12,400	12,214	11,220	11,191	10,935	11,077	9,406	8,367
Taxi	367	391	355	387	333	327	310	270	304	264	201
Minibus	65	79	57	52	54	39	43	37	52	37	32
Bus/coach	796	697	611	617	520	469	433	389	396	320	298
Light goods	918	760	752	785	806	876	878	886	909	787	759
Heavy goods	654	554	546	465	453	408	419	384	322	305	273
Other	541	469	447	364	326	266	257	208	172	195	172
Total	20,220	19,387	17,242	16,752	16,530	15,301	15,290	14,676	14,751	12,673	11,399

1. Includes all two wheeled motor vehicles.

Table 6.4 Reported child casualties and all casualties, by severity; and the slight casualty rate

	Child casualties					All casualties ¹					Slight casualty rate per 100 million veh-kms
	Killed	Serious injury	Killed & Serious	Slight injury	Total	Killed	Serious injury	Killed & Serious	Slight injury	Total	
2004-08 average	15	325.4	341	1,678	2,019	292	2,605	2,897	14,200	17,097	32.47
2008	20	279	299	1,390	1,689	270	2,575	2,845	12,747	15,592	28.66
2009	5	253	258	1,215	1,473	216	2,287	2,503	12,540	15,043	28.36
2010	4	223	227	1,151	1,378	208	1,969	2,177	11,161	13,338	25.66
2011	7	203	210	1,106	1,316	185	1,878	2,063	10,722	12,785	24.71
2012	2	194	196	971	1,167	176	1,981	2,157	10,555	12,712	24.24
2013	9	141	150	902	1,052	172	1,667	1,839	9,653	11,492	22.02
2014	7	171	178	851	1,029	203	1,701	1,904	9,398	11,302	20.96
2015	4	140	144	827	971	168	1,602	1,770	9,207	10,977	20.29
2016	12	167	179	820	999	191	1,697	1,888	9,009	10,897	19.39
2017	2	153	155	745	900	145	1,594	1,739	7,694	9,433	16.03
2018	3	142	145	608	753	161	1,582	1,743	6,668	8,411	13.85
Per cent change: 2018 on 2004-08 average	-81	-56	-57	-64	-63	-45	-39	-40	-53	-51	-57

1. Including those casualties whose age was not known.

Table 6.5 Reported casualties by mode of transport and age group, 2018

	Numbers					Rates per 1,000 population					
	Age not known	Children 0-15	Young Persons 16-24	Adults 25-59	Older Adults 60+	Total	Children 0-15	Young Persons 16-24	Adults 25-59	Older Adults 60+	Total
Pedestrian	4	334	143	501	271	1,253	.36	.25	.19	.20	.23
Pedal cycle	3	64	62	453	55	637	.07	.11	.18	.04	.12
Motorcycle	2	3	105	453	77	640	.00	.18	.18	.06	.12
Car	15	316	1,044	2,764	940	5,079	.34	1.80	1.07	.69	.93
Taxi	1	3	13	69	18	104	.00	.02	.03	.01	.02
Minibus	0	4	0	11	5	20	.00	.00	.00	.00	.00
Bus/Coach	2	19	18	88	103	230	.02	.03	.03	.08	.04
Light goods	0	8	38	243	30	319	.01	.07	.09	.02	.06
Heavy goods	0	1	5	56	11	73	.00	.01	.02	.01	.01
Other ¹	0	1	3	46	6	56	.00	.01	.02	.00	.01
Total	27	753	1,431	4,684	1,516	8,411	.82	2.46	1.82	1.11	1.55

1. Including any casualties whose mode of transport is not known

Table 6.6 Costs of injury accidents by type of road, and of 'damage only' accidents

	Injury Accidents			All injury accidents	Damage only accidents	All accidents
	Motorway	Non Built-up	Built-up			
2008	48.4	714.0	620.3	1,382.7	402.0	1,784.6
2009	50.6	638.8	515.7	1,205.1	380.7	1,585.8
2010	33.2	585.6	470.2	1,089.0	340.6	1,429.6
2011	41.1	488.7	484.2	1,013.9	333.1	1,347.0
2012	32.8	486.6	495.8	1,015.2	325.3	1,340.5
2013	36.5	476.5	404.8	917.8	299.8	1,217.7
2014	36.2	478.4	467.4	982.0	295.7	1,277.6
2015	49.5	429.8	407.2	886.5	282.6	1,169.2
2016	45.6	508.8	394.2	948.7	280.5	1,229.2
2017	29.1	404.7	373.2	807.0	238.1	1,045.1
2018	44.4	423.4	347.9	815.8	213.4	1,029.1

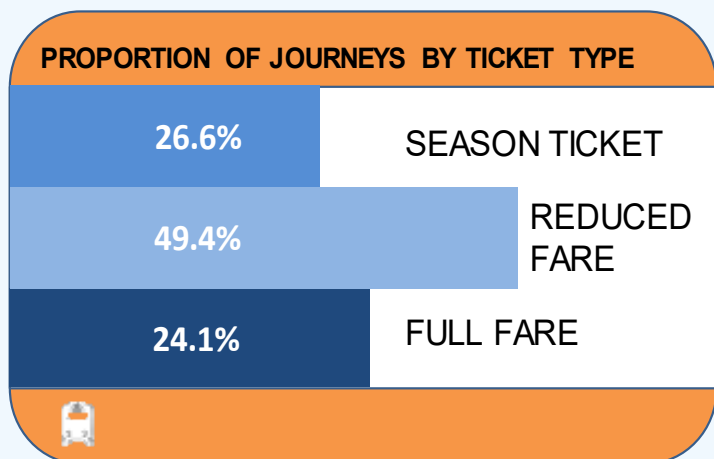
£ million at 2018 prices

Chapter 7: Rail Services

• Rail travel and freight in Scotland • Passenger numbers • Journey types • Passenger receipts

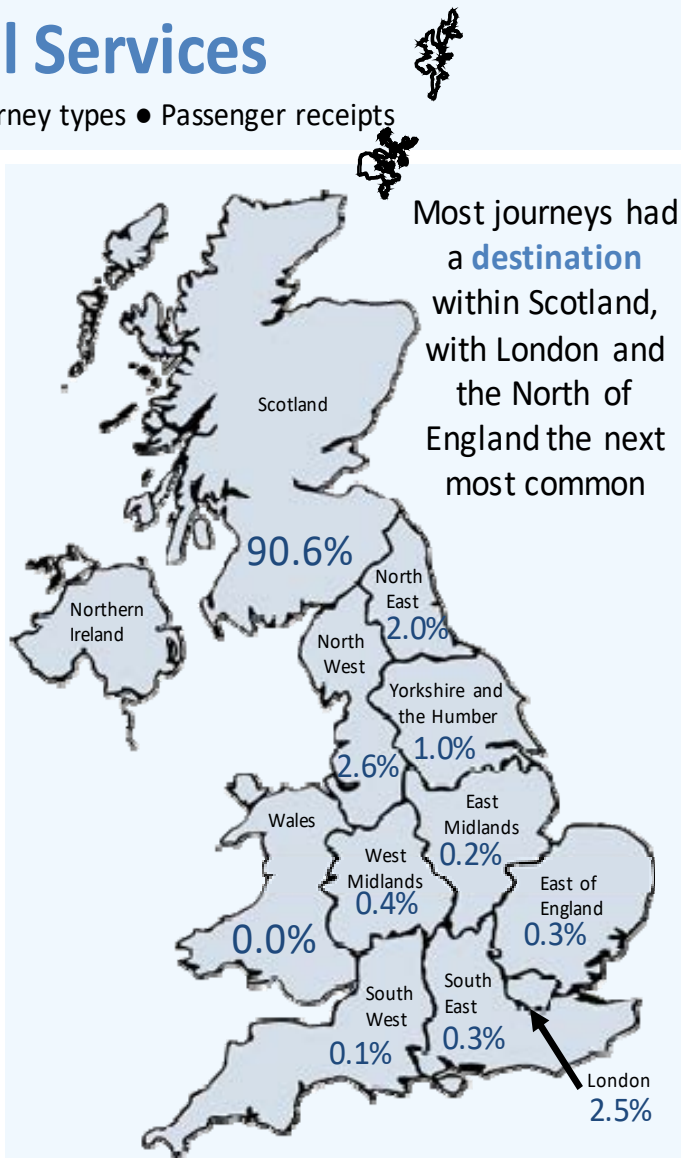
97.8 million

ScotRail passenger journeys in 2018/19
31% increase since 2007/08



Based on ORR data for 2017-18

2,758 km of rail network and
359 stations in Scotland



Most journeys had a **destination** within Scotland, with London and the North of England the next most common

Currently rail passenger satisfaction is lower than 10 years ago

2008	(% satisfied)	2018
89%	Overall opinion	81%
89%	Punctuality/reliability	74%
82%	Frequency	78%
79%	Train cleanliness	73%
76%	Comfort of seats	69%
74%	Station environment	77%
59%	Value for money	52%

31% of people used a train at least once a month
10% used a train at least once a week
3% used a train nearly every day in 2018

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8.43m

tonnes of freight lifted by rail in 2013

87.4%

of Scotrail trains arrived within 5 minutes in 2018

£611m

passenger revenue for train journeys originating in Scotland in 2017

RAIL SERVICES

1. Introduction

1.1 This chapter provides information on rail services, such as the numbers of passenger journeys of various types, passenger receipts, punctuality and passenger satisfaction, the amount of freight lifted by origin, destination and commodity, lines open for traffic, number of stations, railway accidents, and some statistics about the Glasgow Subway.

1.2 For simplicity, the Scottish passenger rail franchise is referred to throughout as ScotRail. From 31 March 1997 to 16 October 2004, it was operated by National Express, under the name ScotRail; between 17 October 2004 and 31 March 2015, it was operated by First Group, under the name First ScotRail. From 1 April 2015 Abellio and Serco began operating ScotRail and Caledonian Sleeper services.

1.3 ScotRail introduced a new methodology which better estimates Strathclyde Zonecard journeys from 2009/10. To allow meaningful year on year comparisons to be made passenger figures from 2003/04 onwards have been revised. Note that Office of Rail and Road figures are compiled on a different basis and do not adjust for this.

Key Points

- **There were 98 million passenger journeys on ScotRail services in 2018-19**
- **As of the end of 2017/18 Scotland had 2,758 kms of rail network and 359 stations.**
- **31% of respondents to the Scottish Household Survey had used the train in the last month in 2018.**

2. Main Points

Journeys and Trends

2.1 Passenger journeys on ScotRail services remained the same as 2017-18 at 97.8 million. (*Table 7.1*).

2.2 There were 97.1 million rail passenger journeys originating in Scotland in the 2017-18 financial year. This was 2.9 million (3%) more than the previous year. Following a fall in the early 1990's, passenger numbers increased in every year after 1994-95, to 64.9 million in 1999-2000. However, they fell by 0.1 million in 2000-01 due to the effects on rail services of the speed restrictions, imposed following the accident at Hatfield in October 2000 (e.g. the Edinburgh/Glasgow daytime frequency was halved for about two months, and some sleeper services did not run for about five months). There were falls of 0.2 million in 2001-02 and 0.6 million in 2002-03 due to the effects on services of the ScotRail drivers' pay dispute, including some one day strikes and a special timetable (involving a reduction of about a quarter in weekday services) from January to May 2002. Subsequently, patronage recovered, with increases from 2004-05 onwards. (*Table H1*) (*Table 7.2*)

2.3 ORR data also show 4.8 million cross-border passenger journeys originating outwith Scotland in 2017-18, 0.3 million more than in 2016-17. Cross-border passenger journeys originating outwith Scotland have been increasing since 1994-95 (2.1 million). However, they fell slightly in 2000-01 and 2002-03 due to the reasons referred to above. (*Table 7.2*)

2.4 Passenger revenue from journeys originating *in* Scotland was £611 million in 2017-18 of which cross-border journeys originating in Scotland accounted for £174 million. A similar

amount (£174 million) of passenger revenue was generated from passenger journeys originating *outwith* Scotland and ending in Scotland. (Table 7.2)

Journey Stages and Distances

2.5 Tables 7.4 to 7.8 show passenger journeys as recorded by ORR. Of the 102 million passenger journeys to/from/within Scotland and England in 2017-18, 91% were solely within Scotland. London, the North West and North East of England were the main origins/destinations of cross-border passenger journeys with around 2 million journeys each (Table 7.4).

2.6 In 2017-18, there were 92.3 million passenger journeys, wholly within Scotland. Forty one per cent of start and end points were in Glasgow and 13% were in Edinburgh. There were over 9 million cross border journeys starting or finishing in Scotland. Of these, 51% started or finished in Edinburgh and 27 per cent started or finished in Glasgow. (Table 7.6a and 7.6c)

2.7 Table 7.6c shows travel between Local Authorities in 2017-18. Of the journeys wholly within Scotland, 15 million (16%) start and finish in Glasgow. Seven million are made between Glasgow and North and South Lanarkshire. (Table 7.6c)

Stations

2.8 In 2017-18, Glasgow Central was the busiest national rail station in Scotland, with 33 million passenger journeys. Edinburgh Waverley was used by 24 million passengers, Glasgow Queen Street by 17 million, Paisley Gilmour Street by 4 million, Haymarket by 3.1 million, Partick by 2.9 million, Aberdeen by 2.6 million, Stirling by 2.5 million, Charing Cross by 2.2 million, Dundee by 2 million and Exhibition Centre Glasgow by 1.9 million. Including those already listed, there were 79 stations for which more than half a million passenger journeys each were recorded in the national ticketing system. (Table 7.7)

2.9 Of the stations in Scotland which have opened (or re-opened) since 1970, Exhibition Centre (1,943,200), Argyle Street (1,295,400), Bathgate (1,292,600), Livingston North (1,247,800), Edinburgh Park (914,600), Anderston (728,400), Bridgeton (715,800), Uphall (624,100) and Paisley Canal (474,900) had the largest passenger volumes in 2018-19. (Table 7.8)

Punctuality and Service

2.10 In 2018-19, 87.4% of ScotRail services, 74.8% of London North Eastern Railway, 84.4% of Cross Country, 84.0% of Virgin Trains West Coast and 89.7% of Caledonian Sleeper trains arrived on time. For all GB long-distance operators it was 81.3% and for all GB regional operators it was 85.8%. (Table 7.9)

2.11 In 2018-19, 94.2% of ScotRail trains arrived within 10 minutes of the scheduled arrival time, 1.6% arrived 20 or more minutes late, and 2.4% were cancelled. (Table 7.10)

2.12 In 2018, 81% of ScotRail passengers were either *satisfied* or said *good* when asked their opinion of their overall journey. The equivalent figure was 92% for non-ScotRail passengers whose journeys started in Scotland and 81% for all GB regional operators and 85% for all GB long-distance operators. The table shows ScotRail passengers' ratings of 13 aspects of service: in 2018, there were 8 for which at least 75% of those surveyed were satisfied, or said good and 4 above 80%. (Table 7.11)

2.13 The Scottish Household Survey also collects data from Scottish households on satisfaction with rail services. In 2016, around 84-87% were satisfied with train services offered, their timeliness, cleanliness and frequency and ability to find out about tickets and routes. There were noticeable differences in those who felt safe on the train during the day and in the evening (day: 95%, evening: 77%). 'Fares are good value' had the lowest agreement rate for trains with 56% of respondents doing so. These questions are asked every other year in the Scottish Household Survey, data for 2019 will be available in Autumn of 2020. (Table 7.20)

Rail Freight

2.14 In 2012-13, 8.4 million tonnes of freight was lifted in Scotland by rail, 15% less than the previous year, and 41% less than the 2005-06 peak. Since 2005-06 minerals and coal have fallen by 63% while other goods have increased by 25%. Of all freight lifted in Scotland, 34% was delivered elsewhere within the UK and about 5% was delivered outwith the UK (because of the way that the statistics are compiled, this figure includes freight for export which was delivered to a port in Britain, as well as Channel Tunnel traffic).

2.15 The amount of freight lifted in Scotland with a destination in Scotland increased by 48% between 2002-03 with a peak in 2007-08 and in 2012-13 was 19% below this level. In 2012-13, coal and minerals accounted for 4.0 million tonnes (48%) of the freight lifted in Scotland. Dividing the number of tonne-kilometres by the number of tonnes gives an average length of haul of 231 kilometres for traffic remaining in Scotland, 386 kilometres for traffic to other parts of the UK, and 712 kilometres for traffic destined for outwith the UK. (Table 7.12)

2.16 A total of 1.65 million tonnes of freight lifted elsewhere in the UK was delivered in Scotland in 2012-13, along with 0.40 million tonnes of freight from outwith the UK (the latter figure includes imported freight which was lifted at ports in England or Wales). The total amount of freight with a destination in Scotland fell by 18%, from 8.77 million tonnes in 2011-12 to 7.16 million tonnes in 2012-13, the reduction is a result of a fall in freight lifted in the UK, as that lifted in Scotland saw a slight increase on the previous year. (Table 7.13)

Railway Network

2.17 The total route length of the railway network in Scotland is 2,758 kilometres, of which 893 kilometres is electrified. These figures do not represent the total length of railway track: a kilometre of single-track and a kilometre of double-track both count as one kilometre of route length. (Table 7.14)

2.18 The number of passenger stations has increased from 340 in 2003-04 to 359 in 2017-18. (Table 7.15)

2.19 The local authorities which had the largest numbers of stations located in their areas in 2017-18 were Glasgow (61) and Highland (59). Since the completion of the Borders Railway Project in 2015 there are now 4 stations in the Midlothian and 3 in the Scottish Borders council areas, see here for more information <http://bit.ly/2soymEn> (Table 7.16)

Subway

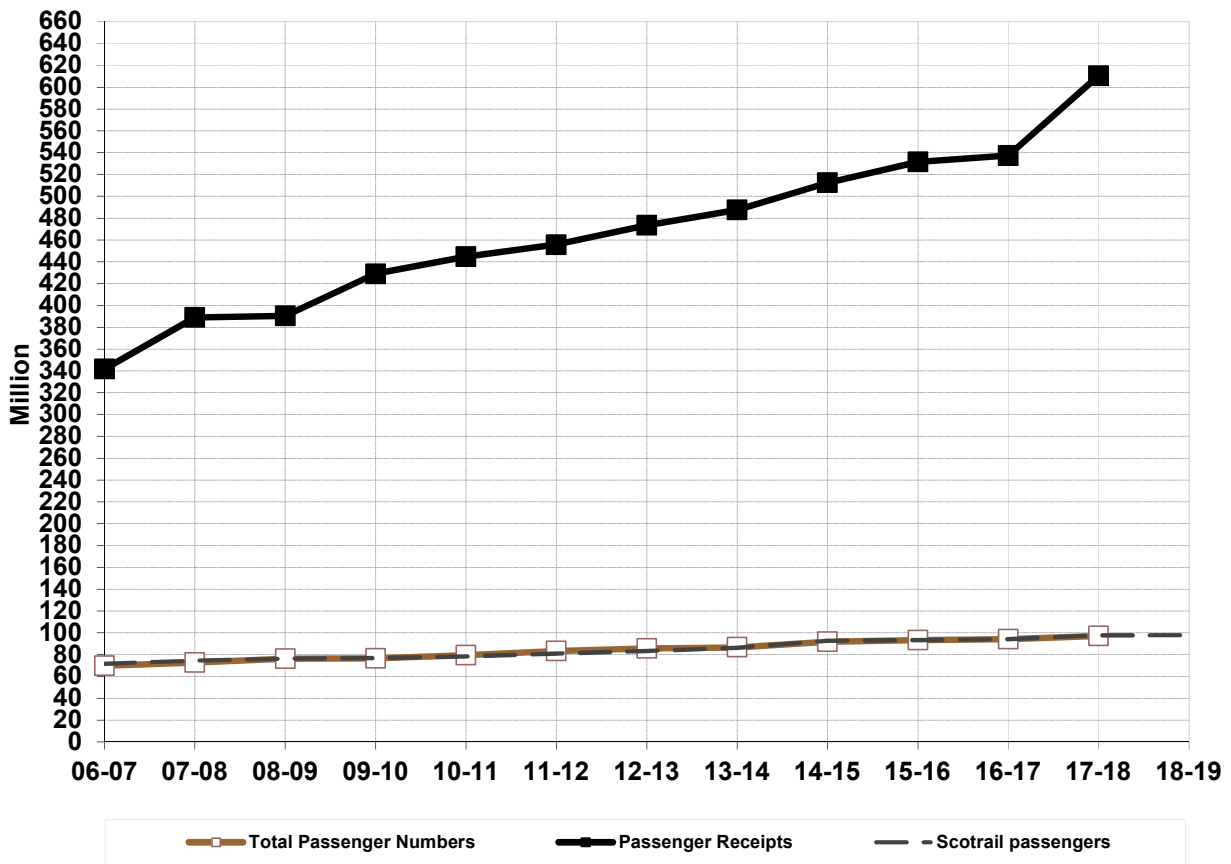
2.20 On the Glasgow Subway, the number of passenger journeys increased by 4 per cent between 2017-18 and 2018-19, and were the highest since 2008-09. Passenger receipts (excluding other revenue) were £19.9 million in 2018-19, 8% more in cash terms, and 4% more in real terms, than in the previous year. (Table 7.17)

Accidents

2.21 The number of railway accidents decreased from 32 to 43 in 2018. Injuries from accidents on trains increased from 148 to 221 between 2017 and 2018. Injuries from train accidents in stations decreased from 550 in 2017 to 495 in 2018. The total number of deaths fell from 18 to 23 between 2017 and 2018. The overall number of injuries relating to railways fell from 933 in 2017 to 924 in 2018. (Table 7.18)

2.22 There were 5 deaths attributed to trespassers and 16 to suicides in 2018. (Table 7.19)

Figure 7.1 Passenger traffic originating in Scotland, and ScotRail passengers



Note: Figures presented here do not use ScotRail's new methodology for estimating zonecard trips. See Table S1 for these.

Figure 7.2 Freight traffic lifted in Scotland

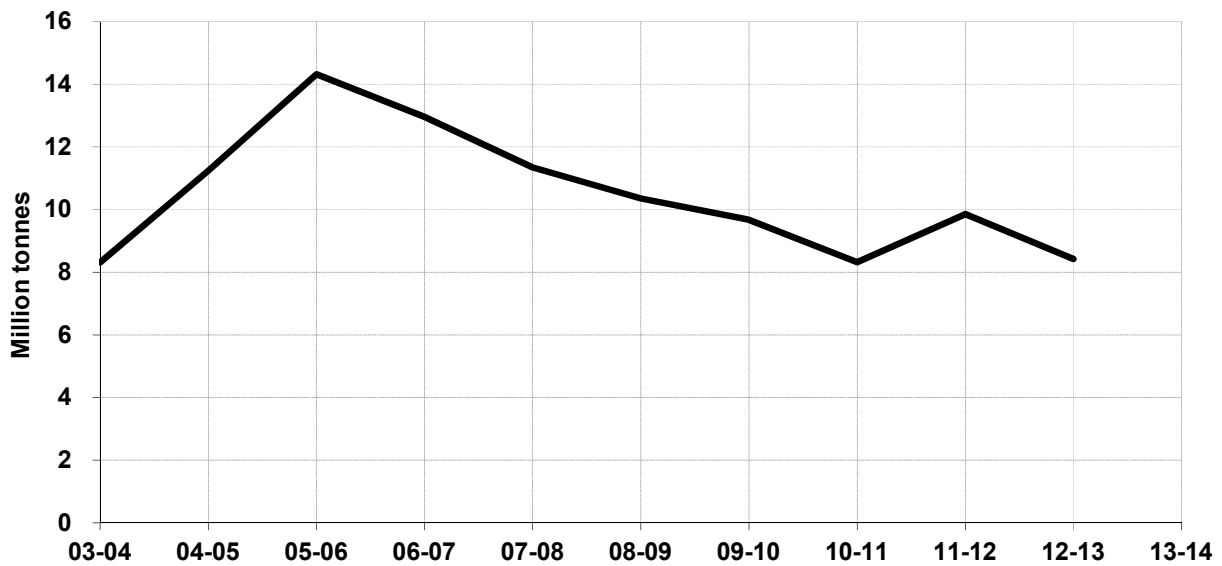


Table 7.1 ScotRail passenger services

	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16 ⁴	2016-17 ⁴	2017-18	2018-19
Passenger journeys ¹	74.47	76.43	76.93	78.29	81.10	83.25	86.34	92.68	93.21	94.24	97.78	97.78
Passenger kilometres	2,426	2,516	2,533	2,642	2,682	2,713	2,828	3,021	2,874	2,842	2,959	2,979
Scheduled train kilometres ³	38.70	39.17	40.70	41.87	43.80	44.40	44.35	45.38	44.34	44.04	44.10	43.97
Route kilometres operated	3,032	3,042	3,043	3,066	3,066	3,066	3,066	3,066	3,121	3,121	3,121	3,121

Source: Office of Rail and Road - Not National Statistics

- ScotRail introduced a new methodology which better estimates Strathclyde Zonecard journeys from 2009/10. Figures from 2003/04 onwards present the impact of this on previously reported data to provide a more meaningful year - on - year comparison. Note that this has no impact on actual journeys undertaken. Passenger kms have also been adjusted to reflect this.
- Figures affected by industrial action.
- Scheduled train kilometres are calculated by the Office of Rail and Road using the published winter and summer timetables. They do not take account of subsequent changes (e.g. cancellations and emergency timetables etc).
- Abellio took over the ScotRail franchise from First on 01/04/2015. Since April 2015 Caledonian Sleeper details have now been excluded from the figures.

Table 7.2 Passenger traffic originating in Scotland: journeys and revenue

Type of ticket	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Passenger journeys million											
Internal (journeys wholly within Scotland)^{1,2}											
Full fare	23.8	24.1	24.0	24.7	25.5	22.5	23.2	23.5	23.1	22.5	23.3
Reduced fare	23.5	24.7	25.8	26.8	28.8	33.2	34.5	38.2	40.1	41.4	43.2
Season ticket	22.5	24.4	23.3	24.2	25.3	26.2	25.0	25.7	26.0	25.8	25.8
Total	69.8	73.2	73.2	75.8	79.5	81.9	82.7	87.4	89.2	89.7	92.3
Cross-border originating in Scotland^{1,2}											
Full fare	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1
Reduced fare	2.6	2.8	3.1	3.5	3.6	3.7	3.8	4.1	4.0	4.3	4.7
Season ticket	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	2.9	3.1	3.3	3.7	3.8	3.9	4.0	4.3	4.2	4.5	4.8
Total passenger traffic originating in Scotland^{1,2}											
Full fare	24.1	24.3	24.2	24.9	25.7	22.6	23.4	23.8	23.3	22.7	23.4
Reduced fare	26.1	27.6	29.0	30.3	32.3	36.9	38.2	42.3	44.1	45.7	48.0
Season ticket	22.5	24.4	23.3	24.3	25.3	26.2	25.0	25.7	26.0	25.8	25.8
Total⁵	72.7	76.3	76.5	79.4	83.3	85.8	86.7	91.7	93.4	94.2	97.1
Passenger journeys originating outwith Scotland											
Full fare	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1
Reduced fare	2.5	2.8	3.1	3.5	3.6	3.7	3.8	4.1	4.0	4.3	4.7
Season ticket	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	2.9	3.1	3.3	3.7	3.8	3.9	4.0	4.3	4.2	4.5	4.8
Passenger revenue £ million											
Internal journeys ^{1,2}	210.1	213.1	230.4	236.0	257.6	278.4	296.7	321.6	350.8	357.7	436.1
Cross-border journeys originating in Scotland	84.9	94.8	106.1	128.8	135.8	143.4	150.8	160.0	153.6	161.1	174.5
Total	295.0	307.9	336.5	364.9	393.4	421.8	447.5	481.7	504.3	518.9	610.6
Total at constant prices ⁴	389.0	390.5	429.1	444.6	455.7	473.5	487.6	512.6	531.5	537.3	610.6
Cross-border journeys originating outwith Scotland											
Scotland	85.7	94.8	106.1	128.8	135.8	143.4	150.8	160.0	153.6	161.1	174.5
At constant prices ⁴	113.0	120.2	135.3	157.0	157.3	161.0	164.3	170.3	161.8	166.9	174.5

Source: ORR - Not National Statistics

- There is a series break between 2007-08 and 2008-09 due to a change in the methodology. From 2008-09 estimates of PTE travel (zone cards) are included.
- Figures are lower than those for First ScotRail passenger journeys as changes of train are not taken into account in this series.
- Figures affected by industrial action.
- Adjusted *approximately* for general inflation using the Retail Prices index for the relevant calendar year (e.g. 2001 RPI used for 2001-02).
- Total passenger figures have not been adjusted to reflect ScotRail's revised methodology and therefore are not comparable with ScotRail passenger figures.

Table 7.3 Cross-border passenger traffic originating outwith Scotland: journeys and revenue ¹

Note: Figures in this table have now been combined with table 7.2

Table 7.4 Passenger journeys using national rail tickets ¹ to, from or within Scotland, 2017-18

		Passenger journeys made using national rail tickets		Change since 1995-96
		<i>thousands</i>	<i>percentage</i>	<i>percentage</i>
All such passenger journeys to, from or within Scotland ²		101,951	100.0%	108.3%
<i>of which:</i>				
within	Scotland ²	92,333	90.6%	108.1%
to / from	England and Wales	9,618	9.4%	110.6%
<i>of which:</i>				
	to / from London	2,516	2.5%	104.2%
	to / from North West England	2,696	2.6%	222.5%
	to / from North East England	2,016	2.0%	177.8%
	to / from Yorkshire and the Humber	1,065	1.0%	98.6%
	to / from West Midlands	437	0.4%	94.2%
	to / from East England	294	0.3%	4.1%
	to / from South East	256	0.3%	-20.5%
	to / from East Midlands	224	0.2%	52.6%
	to / from South West	75	0.1%	-59.7%
	to / from Wales	39	0.0%	-48.1%

Source: ORR - Not National Statistics

1. Through journeys made using tickets whose sales were recorded directly by the rail industry's central ticketing system.
2. Total passenger figures have not been adjusted to reflect ScotRail's revised methodology and are therefore not comparable with ScotRail passenger figures.

Table 7.5 Distances travelled by passengers¹ to Aberdeen, Edinburgh and Glasgow ² 2017-18

	Aberdeen	Edinburgh	Glasgow
	<i>percentages</i>		
0 - under 5 kms	0.0	1.0	23.8
5 - under 10 kms	9.0	6.0	21.1
10 - under 20 kms	1.1	8.4	24.7
20 - under 50 kms	29.2	34.3	15.7
50 - under 100 kms	10.0	29.9	9.4
100+ kms	50.7	20.5	5.2
All passenger journeys made using national rail tickets	100.0	100.0	100.0

Source: ORR - Not National Statistics

1. Based on ticket sales from central ticketing system (therefore excludes journeys made using zonecards)
2. Journeys for which the destination is one of the stations in the Council area (e.g. Edinburgh includes Brunstane, Curriehill, Dalmeny, etc)

Table 7.6a Cross border rail passenger journeys starting or ending in Scotland¹

RAIL SERVICES

Journeys (thousands) by District/Unitary Authority

To/From	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	% change 2017-18 on 2016-17
Aberdeen City	289	301	355	338	343	355	337	286	255	240	-6.1
Aberdeenshire	19	22	27	25	26	25	25	25	22	22	1.3
Angus	43	44	50	46	48	47	48	44	42	43	1.5
Argyll and Bute	29	32	33	33	30	30	31	27	28	29	4.1
Clackmannan	3	3	4	4	4	4	4	4	4	4	5.6
Dumfries and Galloway	337	347	372	392	388	390	402	385	405	424	4.7
Dundee City	163	170	194	192	191	179	172	162	156	158	1.3
East Ayrshire	20	22	28	28	27	29	34	34	35	37	4.0
East Dunbartonshire	5	7	9	11	12	13	16	15	16	17	9.7
East Lothian	48	47	53	56	58	58	59	61	60	67	10.4
East Renfrewshire	3	4	5	5	5	7	8	8	9	9	1.6
Edinburgh, City Of	2,873	3,116	3,377	3,494	3,605	3,757	4,106	4,162	4,547	4,929	8.4
Falkirk	57	58	66	69	72	73	76	71	77	76	-1.2
Fife	240	246	287	287	295	286	276	265	261	266	1.8
Glasgow City ¹	1,421	1,624	1,873	1,928	1,966	2,046	2,344	2,193	2,430	2,591	6.6
Highland	146	148	166	151	146	144	134	96	89	87	-1.6
Inverclyde	19	20	24	22	23	24	30	29	31	31	-0.4
Midlothian	-	-	-	-	-	-	-	2	3	5	34.8
Moray	21	20	25	22	20	18	18	14	13	13	-7.1
North Ayrshire	26	29	34	32	34	35	43	42	47	46	-1.9
North Lanarkshire	101	96	107	106	100	106	120	112	122	126	3.3
Perth and Kinross	72	79	87	86	87	82	79	74	71	68	-3.9
Renfrewshire	17	19	23	22	22	23	30	28	32	34	3.8
Scottish Borders	-	-	-	-	-	-	-	4	9	10	14.2
South Ayrshire	34	37	41	41	45	47	55	49	55	54	-1.9
South Lanarkshire	15	18	24	24	26	28	34	31	36	36	0.8
Stirling	82	83	97	96	99	96	103	100	105	109	4.6
West Dunbartonshire	7	8	9	10	10	10	13	13	15	15	0.0
West Lothian	38	40	50	59	62	63	71	71	74	73	-1.0
Scotland Other ¹	-	-	-	-	-	-	-	-	-	-	-
Scotland Total	6,129	6,641	7,419	7,580	7,745	7,978	8,669	8,406	9,049	9,618	6.3

Source: Office of Rail and Road. National Rail Statistics, Chapter 7 - Rail Usage.

1. Since 2006-07 there have been improvements in mapping tickets sold with an unknown origin or destination. These were previously mapped to Scotland other, but due to improved methodology, these have now been mapped to other districts or unitary authorities.

One impact of this is journeys have been more accurately mapped to Glasgow city since 2006-07 so comparisons with earlier years should not be made. For full methodology notes, please view the ORR documentation, which can be found here: http://orr.gov.uk/_data/assets/pdf_file/0014/1940/regional-usage-profiles-odm-august-2013.pdf

Table 7.6b Rail passenger journeys within Scotland^{1,2}

Start/End points (thousands) on journeys within Scotland

To/From/Within	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	% change 2017-18 on 2016-17
Aberdeen City	2,770	2,873	3,191	3,510	3,755	4,055	4,229	3,838	3,321	3,175	-4.4
Aberdeenshire	859	954	1,070	1,174	1,258	1,368	1,441	1,430	1,330	1,310	-1.5
Angus	828	799	826	843	842	863	879	860	800	809	1.2
Argyll and Bute	1,769	1,716	1,763	1,788	1,767	1,426	1,427	1,368	1,272	1,305	2.6
Clackmannan	333	387	391	397	377	380	398	383	357	384	7.7
Dumfries and Galloway	364	375	399	404	409	418	461	437	481	505	5.1
Dundee City	1,480	1,500	1,532	1,539	1,523	1,594	1,706	1,771	1,700	1,751	3.0
East Ayrshire	808	842	1,043	1,166	1,205	1,139	1,215	1,171	1,148	1,221	6.3
East Dunbartonshire	3,858	3,788	3,920	4,101	4,211	4,066	4,349	4,277	3,882	4,223	8.8
East Lothian	1,788	1,801	1,781	1,884	2,011	2,163	2,257	2,386	2,286	2,385	4.3
East Renfrewshire	3,082	3,009	3,119	3,298	3,348	3,158	3,300	3,391	3,520	3,565	1.3
Edinburgh, City Of	18,195	19,781	20,291	18,526	19,577	20,904	21,919	22,740	23,324	24,279	4.1
Falkirk	2,833	2,856	2,922	2,965	2,978	3,068	3,240	3,206	3,131	3,253	3.9
Fife	5,044	4,902	4,899	5,044	5,103	5,310	5,670	6,129	5,841	5,928	1.5
Glasgow City ¹	58,953	61,182	63,527	64,204	65,765	64,988	69,388	70,835	71,944	75,245	4.6
Highland	1,815	1,918	2,009	2,164	2,208	2,317	2,322	2,345	2,266	2,290	1.1
Inverclyde	2,710	2,669	2,728	2,753	2,813	2,750	2,890	2,906	2,832	2,827	-0.2
Midlothian	-	-	-	-	-	-	-	239	459	551	19.9
Moray	417	433	474	493	516	537	559	559	519	495	-4.7
North Ayrshire	3,795	3,758	3,884	3,924	4,061	3,862	3,963	3,947	4,019	4,092	1.8
North Lanarkshire	7,724	7,598	7,910	8,528	8,680	8,441	8,903	8,997	9,351	9,425	0.8
Perth and Kinross	927	978	1,019	1,054	1,084	1,117	1,231	1,322	1,263	1,319	4.4
Renfrewshire	6,115	5,982	6,153	6,144	6,362	6,869	7,201	7,341	7,326	7,395	0.9
Scottish Borders	-	-	-	-	-	-	-	597	915	940	2.7
South Ayrshire	3,340	3,162	3,214	3,153	3,245	3,330	3,351	3,150	3,399	3,418	0.6
South Lanarkshire	7,583	7,556	7,973	8,508	8,785	8,941	9,430	9,484	9,506	9,393	-1.2
Stirling	2,809	2,823	2,921	2,928	2,914	2,952	3,148	3,187	3,051	3,264	7.0
West Dunbartonshire	4,825	4,666	4,751	4,775	4,863	4,934	5,140	5,128	5,120	4,842	-5.4
West Lothian	3,066	2,981	3,214	3,760	4,108	4,432	4,792	4,890	5,054	5,074	0.4
Scotland Other ¹	-	-	-	-	-	-	-	-	-	-	-
Scotland Total	148,091	151,288	156,924	159,031	163,767	165,381	174,808	178,311	179,417	184,665	2.9

Source: Office of Rail and Road. National Rail Statistics, Chapter 7 - Rail Usage.

1. Note that this table shows start and end points of journeys so a journey starting in Aberdeen City and ending in Aberdeenshire would count once against each local authority. A journey starting and ending in Angus would count twice against the local authority. Therefore dividing the figures in the table by two gives the number of journeys either starting or ending in a Local Authority and will match totals published elsewhere in this chapter.

2. Since 2006-07 there have been improvements in mapping tickets sold with an unknown origin or destination. These were previously mapped to Scotland other, but due to improved methodology, these have now been mapped to other districts or unitary authorities.

One impact of this is journeys have been more accurately mapped to Glasgow city since 2006-07 so comparisons with earlier years should not be made. For full methodology notes, please view the ORR documentation, which can be found here: <http://www.rail-reg.gov.uk/upload/pdf/odm-summary-1011.pdf>

Table 7.6c Rail passenger journeys wholly within Scotland, using national rail tickets¹,
by local authority areas^{2,3} of origin and destination, 2018-19⁴

RAIL SERVICES

Origin	Destination														Glasgow, City of
	Aberdeen City	Aberdeenshire	Angus	Argyll & Bute	Clackmannanshire	Dumfries & Galloway	Dundee City	East Ayrshire	East Dunbartonshire	East Lothian	East Renfrewshire	Edinburgh, City of	Falkirk	Fife	
Aberdeen City	269	493	107	1	0	1	75	0	2	1	0	211	6	40	146
Aberdeenshire	493	31	14	0	0	0	20	0	0	0	0	40	1	5	20
Angus	107	14	36	0	0	0	135	0	0	0	0	47	1	9	25
Argyll and Bute	1	0	0	58	0	0	1	1	5	0	1	28	1	1	426
Clackmannanshire	0	0	0	0	0	0	1	0	1	0	0	25	10	0	76
Dumfries and Galloway	1	0	0	0	0	65	1	12	0	0	0	58	0	1	89
Dundee City	75	20	135	1	1	1	8	0	1	2	0	233	6	110	114
East Ayrshire	0	0	0	1	0	12	0	82	1	0	12	11	1	0	422
East Dunbartonshire	2	0	0	5	1	0	1	1	50	1	7	97	7	1	1,764
East Lothian	1	0	0	0	0	0	2	0	1	31	0	1,070	7	15	35
East Renfrewshire	0	0	0	1	0	0	0	12	7	0	185	29	2	0	1,427
Edinburgh, City of	211	40	47	28	25	58	233	11	7	1,070	29	1,337	713	2,151	2,152
Falkirk	6	1	1	1	10	0	6	1	7	7	2	713	65	5	560
Fife	40	5	9	1	0	1	110	0	1	15	0	2,151	5	471	63
Glasgow, City of	146	20	25	426	76	89	114	422	1,764	35	1,427	2,152	560	63	15,217
Highland	85	13	2	5	0	1	10	0	1	1	0	138	3	10	130
Inverclyde	1	0	0	2	0	0	0	2	4	0	5	18	2	1	804
Midlothian	1	0	0	0	0	0	1	0	2	2	0	151	6	14	57
Moray	88	9	1	0	0	0	3	0	0	0	0	15	0	2	12
North Ayrshire	2	0	0	2	1	1	1	2	7	0	8	31	3	1	1,091
North Lanarkshire	3	0	0	10	1	1	3	4	26	4	12	485	21	5	3,433
Perth and Kinross	22	4	19	1	1	1	118	0	2	1	1	146	5	29	173
Renfrewshire	1	0	0	4	1	3	1	9	20	1	25	41	6	1	2,474
Scottish Borders	2	0	0	0	0	0	2	0	0	1	0	363	2	7	22
South Ayrshire	1	0	0	1	0	15	2	36	6	1	6	43	3	2	623
South Lanarkshire	1	0	0	5	1	1	1	7	30	1	48	104	4	1	3,782
Stirling	23	2	5	7	69	1	22	1	17	4	2	473	157	6	506
West Dunbartonshire	1	0	0	92	1	0	0	3	52	1	9	35	4	1	1,561
West Lothian	4	0	0	1	1	1	4	1	5	12	1	1,897	26	11	420
Scotland	1,588	655	405	653	192	253	876	610	2,112	1,192	1,783	12,139	1,627	2,964	37,623

Origin	Destination													Scotland	
	Highland	Inverclyde	Midlothian	Moray	North Ayrshire	North Lanarkshire	Perth & Kinross	Renfrewshire	Scottish Borders	South Ayrshire	South Lanarkshire	Stirling	West Dunbartonshire		West Lothian
Aberdeen City	85	1	1	88	2	3	22	1	2	1	1	23	1	4	1,588
Aberdeenshire	13	0	0	9	0	0	4	0	0	0	0	2	0	0	655
Angus	2	0	0	1	0	0	19	0	0	0	0	5	0	0	405
Argyll and Bute	5	2	0	0	2	10	1	4	0	1	5	7	92	1	653
Clackmannanshire	0	0	0	0	1	1	1	1	0	0	1	69	1	1	192
Dumfries and Galloway	1	0	0	0	1	1	1	3	0	15	1	1	0	1	253
Dundee City	10	0	1	3	1	3	118	1	2	2	1	22	0	4	876
East Ayrshire	0	2	0	0	2	4	0	9	0	36	7	1	3	1	610
East Dunbartonshire	1	4	2	0	7	26	2	20	0	6	30	17	52	5	2,112
East Lothian	1	0	2	0	0	4	1	1	1	1	1	4	1	12	1,192
East Renfrewshire	0	5	0	0	8	12	1	25	0	6	48	2	9	1	1,783
Edinburgh, City of	138	18	151	15	31	485	146	41	363	43	104	473	35	1,897	12,139
Falkirk	3	2	6	0	3	21	5	6	2	3	4	157	4	26	1,627
Fife	10	1	14	2	1	5	29	1	7	2	1	6	1	11	2,964
Glasgow, City of	130	804	57	12	1,091	3,433	173	2,474	22	623	3,782	506	1,561	420	37,623
Highland	604	0	0	74	1	1	42	1	1	1	1	16	2	2	1,145
Inverclyde	0	255	0	0	9	9	1	265	0	8	14	2	8	1	1,414
Midlothian	0	0	3	0	0	5	0	0	27	0	0	3	0	0	275
Moray	74	0	0	36	0	0	2	0	0	0	0	1	0	0	247
North Ayrshire	1	9	0	0	349	13	1	213	0	277	21	3	10	2	2,046
North Lanarkshire	1	9	5	0	13	347	2	37	2	16	175	20	40	35	4,712
Perth and Kinross	42	1	0	2	1	2	37	1	1	1	1	45	1	3	660
Renfrewshire	1	265	0	0	213	37	1	385	1	105	62	7	29	4	3,697
Scottish Borders	1	0	27	0	0	2	1	1	31	0	1	2	0	4	470
South Ayrshire	1	8	0	0	277	16	1	105	0	530	18	5	5	2	1,709
South Lanarkshire	1	14	0	0	21	175	1	62	1	18	359	6	48	5	4,696
Stirling	16	2	3	1	3	20	45	7	2	5	6	202	4	20	1,632
West Dunbartonshire	2	8	0	0	10	40	1	29	0	5	48	4	506	5	2,421
West Lothian	2	1	5	0	2	35	3	4	4	2	5	20	5	65	2,537
Scotland	1,145	1,414	275	247	2,046	4,712	660	3,697	470	1,709	4,696	1,632	2,421	2,537	92,333

Source: ORR - Not National Statistics

1. Based on ticket sales from central ticketing system (therefore excludes journeys made using zonecards)
 2. In this table a journey between two local authorities is only counted once.
 3. The table does not show the local authority areas which do not contain any stations
 4. Total passenger figures have not been adjusted to reflect ScotRail's revised methodology and are therefore not comparable with ScotRail passenger figures.
- Note: Previous versions of this table for the years 2008-09 to 2012-13 can be found in the STS no 33 Excel datasets here
<http://www.transportscotland.gov.uk/analysis/statistics/publications/scottish-transport-statistics-previous-editions>

Table 7.7 Passenger journeys to and from the main stations in Scotland: 2018-19^{1, 2, 3, 4}

Rank		<i>thousands</i>	Rank		<i>thousands</i>
1	Glasgow Central	32,797	51	Helensburgh Central	753
2	Edinburgh	23,873	52	Bishopton (Renfrewshire)	747
3	Glasgow Queen Street	17,207	53	Anderston	728
4	Paisley Gilmour Street	4,028	54	Falkirk Grahamston	720
5	Haymarket	3,068	55	Crossmyloof	716
6	Partick	2,944	56	Bridgeton	716
7	Aberdeen	2,616	57	Newton (Lanark)	678
8	Stirling	2,480	58	Hairmyres	673
9	Charing Cross (Glasgow)	2,229	59	Shettleston	672
10	Dundee	2,016	60	Coatbridge Sunnyside	668
11	Exhibition Centre (Glasgow)	1,943	61	Cathcart	664
12	Hyndland	1,692	62	Dunfermline Town	651
13	Ayr	1,459	63	Leuchars (For St. Andrews)	644
14	Croy	1,409	64	Uphall	624
15	Motherwell	1,387	65	Troon	616
16	Johnstone (Renfrewshire)	1,332	66	Kilmarnock	609
17	Mount Florida	1,331	67	Dalmeny	606
18	Argyle Street	1,295	68	North Berwick	604
19	Bathgate	1,293	69	Singer	575
20	Livingston North	1,248	70	Clarkston	569
21	Inverness	1,243	71	Balloch	554
22	Inverkeithing	1,235	72	Bearsden	551
23	Linlithgow	1,199	73	Dunblane	547
24	Anniesland	1,136	74	Wishaw	547
25	Perth	1,112	75	Port Glasgow	541
26	Kirkcaldy	1,110	76	Patterton	521
27	Airdrie	1,098	77	Gourock	519
28	East Kilbride	1,055	78	Greenock West	515
29	Rutherglen	1,028	79	Blantyre	512
30	Kilwinning	1,008	80	Blairhill	492
31	Milngavie	945	81	Garrowhill	490
32	Dalmuir	923	82	Dunbar	478
33	Edinburgh Park	915	83	Paisley Canal	475
34	Irvine	912	84	Stonehaven	470
35	Falkirk High	910	85	Scotstounhill	459
36	Lenzie	903	86	Musselburgh	455
37	Uddingston	898	87	Pollokshields East	453
38	Larbert	858	88	Dumbarton East	453
39	Polmont	794	89	Pollokshaws East	449
40	Westerton	791	90	Largs	446
41	High Street (Glasgow)	789	91	Tweedbank	444
42	Bishopbriggs	785	92	Muirend	429
43	Bellshill	785	93	Alexandra Parade	419
44	Hamilton West	775	94	Drumgelloch	419
45	Bellgrove	767	95	Dalmarnock	414
46	Queens Park (Glasgow)	767	96	Neilston	414
47	Barrhead	762	97	Prestwick Town	409
48	Cambuslang	759	98	Carluke	405
49	Hamilton Central	757	99	Dumfries	403
50	Dumbarton Central	756	100	Springburn	397

Source: ORR - Not National Statistics

1. Figures estimate the total number of people arriving or departing from the main stations in Scotland.
2. Figures have not been adjusted to reflect ScotRail's revised methodology and are therefore not comparable with ScotRail passenger figures.
3. Stations associated with a group station can show large year-to-year variations in usage figures, which reflect changes in ticket encoding rather than actual difference in passengers' journeys. For such tickets, journeys are allocated to the main station of those in the group.
4. For example, a return journey from Kirkcaldy to Edinburgh would be counted twice against Kirkcaldy (since the passenger used Kirkcaldy static twice - once when departing on the outward journey and once when arriving on completion of the return journey), and twice against Edinburgh.

Table 7.8 Passenger journeys to or from stations¹ in Scotland that have opened (or re-opened) since 1970

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
	<i>thousands</i>										
Dun Craig (1971)	0.4	0.4	0.6	0.7	0.8	0.5	0.4	0.5	0.3	0.4	0.5
Kingsknowe (1971)	20.3	19.7	15.8	17.5	25.3	24.7	21.2	20.2	18.8	20.5	17.2
AIness (1973)	13.7	14.3	17.7	25.5	28.4	27.8	25.9	23.6	26.4	29.3	30.4
Muir of Ord (1976)	51.1	57.4	62.4	74.5	74.1	72.8	66.6	66.5	64.5	64.8	67.6
IBM (1978)	205.7	145.7	136.4	127.8	122.6	71.1	47.4	22.0	6.0	0.8	0.5
Anderston (1979)	651.3	551.9	576.8	647.2	630.8	602.8	633.7	624.6	661.3	711.6	728.4
Argyle Street (1979)	911.8	734.8	783.6	1196.5	1336.7	1369.9	1438.4	1382.9	1413.2	1411.4	1295.4
Bridgeton * (1979)	466.9	394.0	409.1	489.3	617.2	647.0	647.0	631.8	610.5	702.3	715.8
Dalmarnock (1979)	79.8	77.3	76.8	79.6	21.5	100.4	217.1	283.2	367.7	449	414.2
Exhibition Centre * (1979)	1153.1	1054.2	1170.0	1317.8	1369.4	1375.5	1639.9	1742.5	1891.5	1847.8	1943.2
Dyce (1984)	488.0	515.5	542.5	677.9	759.9	810.7	823.9	664.4	517.6	466.7	358.7
Livingston South (1984)	245.6	250.2	295.8	285.4	287.7	296.3	317.2	342.8	323.7	327.9	295.6
Kilmaurs (1984)	84.4	81.0	95.5	102.1	107.3	105.8	109.8	103.5	104.1	113.5	128.1
Auchinleck (1984)	38.5	37.8	43.3	55.7	57.1	56.0	62.7	62.0	61.8	67.4	77.8
Dunrobin Castle (1985)	0.6	0.5	0.6	0.6	0.6	0.9	0.8	0.8	0.9	1	1.2
Loch Eil Outward Bound * (1985)	0.9	0.5	0.8	0.7	0.6	0.5	0.6	0.5	0.6	0.5	0.6
South Gyle (1985)	496.9	475.8	473.7	513.8	555.1	574.6	558.1	587.4	497.2	432.9	382
Loch Awe (1985)	2.5	2.9	3.1	2.5	2.7	3.0	4.8	4.8	4.1	5.4	5
Portlethen (1985)	19.9	15.2	18.3	19.1	28.0	48.2	57.2	56.3	45.9	42.7	46.7
Bridge of Allan (1985)	224.6	235.2	227.3	243.5	248.2	258.7	275.0	278.9	271.4	289.1	290.9
Livingston North (1986)	566.0	552.7	631.0	825.5	924.3	1030.6	1125.3	1155.0	1201.0	1191.8	1247.8
Bathgate (1986)	645.8	607.3	694.9	871.0	973.9	1060.7	1176.5	1223.1	1302.8	1282.1	1292.6
Uphall (1986)	254.1	226.7	220.9	325.1	431.2	511.0	557.6	581.6	608.6	613.6	624.1
Wester Hailes (1987)	20.4	22.7	23.1	29.8	35.8	36.2	37.5	38.6	36.1	41.3	39.9
Curriehill (1987)	47.1	46.9	48.5	52.9	63.9	65.8	67.2	67.0	66.7	69.3	69.2
Ardrossan Town (1987)	22.9	18.6	18.7	20.6	21.0	21.2	21.9	20.1	24.2	21.6	22.3
Falls of Cruachan (1988)	0.2	0.2	0.2	0.3	0.2	0.5	0.7	0.7	0.7	0.7	0.5
Musselburgh (1988)	385.3	389.2	362.9	386.7	420.8	438.7	456.7	478.1	463.7	488.6	455.4
Greenfaulds (1989)	121.4	131.3	136.1	132.6	122.9	130.5	136.5	130.9	114.8	124.3	125.3
Drumgelloch (1989) !	193.0	170.9	58.5	269.2	307.2	345.0	387.3	403.5	411.1	418.6	418.7
Stepps (1989)	343.0	301.2	291.0	302.2	305.6	277.4	296.9	300.4	269.9	301.9	315.2
Airbles (1989)	114.9	104.5	107.8	110.1	113.6	112.8	119.1	127.0	142.9	132.8	114.4
Milliken Park (1989)	154.9	137.4	142.3	151.2	169.4	190.3	198.2	206.1	241.4	255.7	238.4
Whinhill (1990)	37.9	35.2	37.7	40.0	45.3	52.4	52.6	53.6	43.7	52.4	41.6
Dumbreck (1990)	124.0	111.5	109.5	114.1	117.2	131.4	150.6	164.0	169.7	179.2	170.2
Corkerhill (1990)	212.8	192.4	211.9	236.6	233.5	245.0	247.8	266.2	284.9	276	277.1
Mosspark (1990)	125.7	111.0	111.2	117.4	116.0	110.7	119.0	143.1	186.7	174.7	162.3
Crookston (1990)	132.6	115.1	120.0	126.4	127.2	132.6	149.8	174.8	188.1	200.3	194.6
Paisley Canal (1990)	231.7	215.2	219.1	232.8	218.5	340.6	363.2	367.7	398.1	389.3	474.9
Priesthill & Darnley (1990)	94.5	86.0	105.1	115.9	125.1	125.8	134.2	137.7	144.8	161	164.5
Shieldmuir (1990)	44.8	48.9	57.3	56.8	69.5	81.4	89.2	105.2	113.9	116.3	109.6
Hawkhead (1991)	157.1	137.7	139.5	145.5	138.7	167.3	183.8	201.3	224.0	224.3	244.3
New Cumnock (1991)	23.0	22.1	26.2	28.0	28.5	27.2	31.9	28.4	26.6	26.7	28.3
Glenrothes with Thornton (1992)	52.2	52.6	49.6	57.5	60.9	63.0	67.3	76.7	76.9	79.5	76.8
Whifflet (1992)	282.3	246.6	246.7	254.5	257.4	233.4	234.1	247.4	329.6	301.1	257.5

Source: ORR - Not National Statistics

1. Figures have not been adjusted to reflect ScotRail's revised methodology and are therefore not comparable with ScotRail passenger figures.

* This is the current name - the station had a different name when it was opened (or re-opened).

! The station closed on 9 May 2010 and then re-opened on 6 March 2011.

Table 7.8 (Continued) Passenger journeys to or from stations¹ in Scotland that have opened (or re-opened) since 1970

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
	<i>thousands</i>										
Ashfield (1993)	57.9	58.0	54.7	69.7	76.4	74.2	80.5	76.5	50.3	83.5	84.5
Possilpark & Parkhouse (1993)	106.7	93.8	90.3	112.0	123.8	99.2	97.7	91.4	73.1	100.2	92.0
Gilshochill * (1993)	103.0	96.0	84.8	89.5	98.9	94.5	101.9	87.0	65.1	94.7	91.2
Summerston (1993)	118.2	119.7	116.5	140.5	156.8	154.1	166.9	152.4	99.0	146.8	147.4
Maryhill (1993)	77.4	69.1	65.3	80.3	83.3	77.3	92.3	90.5	64.1	89.7	88.7
Carmyle (1993)	131.6	124.3	127.0	135.3	143.3	132.1	131.1	132.5	155.5	138	121.2
Mount Vernon (1993)	58.2	51.4	55.7	56.7	63.3	57.3	59	60.2	66.8	69.6	58
Baillieston (1993)	90.8	89.1	97.0	109.2	114.7	112.0	112.9	126.2	156.5	159.5	149.9
Bargeddie (1993)	97.4	85.8	89.8	99.4	98.3	88.0	85.9	95.2	114.9	105.8	91.8
Kirkwood (1993)	158.9	140.6	138.9	150.0	153.2	130.2	131.6	138.9	166.6	156.8	139.2
Gretna Green (1993)	28.2	31.3	32.9	36.6	37.4	38.0	40.2	38.9	39.0	39.9	45.9
Camelon (1994)	97.3	92.1	97.7	104.5	110.9	116.4	130.5	136.1	132.2	127.6	142.0
Wallyford (1994)	209.3	227.9	220.9	240.8	255.8	268.1	295.9	311.9	297.0	316.9	308.0
Sanquhar (1994)	24.3	23.9	22.4	28.4	28.2	26.3	27.5	24.5	27.4	28.7	28.1
Prestwick Airport (1994)	766.8	532.3	315.3	337.0	343.8	454.0	293.9	93.0	117.9	132.8	104.9
Dalgety Bay (1998)	272.7	247.8	244.3	264.2	268.4	284.3	307.8	341.0	315.2	323.2	306
Drumfrochar (1998)	58.5	59.1	61.3	55.2	60.0	69.8	72.9	68.4	80.7	66.2	74
Dunfermline Queen Margaret (2000)	214.7	205.3	195.5	210.5	206.1	208.5	224.1	250.5	236.7	249.7	248.5
Howwood (2001)	42.9	41.5	41.3	47.9	51.3	112.7	119.9	124.9	111.6	101.3	94.9
Beaully (2002)	52.4	51.1	49.8	54.5	55.2	57.9	57.4	59.4	52.9	51.5	48.3
Brunstane (2002)	135.1	134.3	128.2	132.8	144.2	159.6	164.5	166.0	162.1	177.3	178.1
Newcraighall (2002)	182.9	194.2	182.0	191.0	206.9	221.9	242.8	224.0	234.8	278.5	286.4
Edinburgh Park (2003)	434.2	451.8	499.4	646.0	816.7	960.3	893.5	889.5	870.0	888	914.6
Gartcosh (2005)	124.3	131.7	134.3	143.8	142.0	153.4	177	156.8	133.8	148.4	186.7
Kelvindale (2005)	109.5	109.7	90.4	94.4	96.5	98.0	105.5	91.6	65.9	92.2	84.7
Chatelherault (2005)	41.0	49.8	57.1	59.5	62.5	66.9	74.9	85.9	105.5	111.1	108.5
Merryton (2005)	99.5	104.0	102.6	106.3	113.1	111.4	116.2	113.5	123.1	107.2	121.4
Larkhall (2005)	334.4	323.1	316.8	327.1	342.7	406.1	420.1	420.4	434.5	385.9	354.6
Alloa (May 2008)	336.0	390.0	390.7	401.1	380.9	383.8	402.4	386.5	360.6	388.2	370.5
Laurencekirk (May 2009)		56.5	73.1	86.1	92.5	102.8	112.9	104.5	96.0	95.8	86.3
Blackridge (2010)			12.4	43.3	42.6	47.3	51.5	53.2	56.9	58	59.8
Armadale (2011)			11.2	126.1	141.1	164.7	186.3	215.4	238.7	249.8	260.1
Caldercruix (2011)			11.1	91.0	93.0	101.9	109	111.5	88.7	100.4	98.3
Conon Bridge (2013)					3.8	18.1	15.5	15.3	15.5	15.1	17.5
Eskbank (Sept 2015)								128.3	274.8	338.9	367
Galashiels (Sept 2015)								213.8	346.3	356.3	360.4
Gorebridge (Sept 2015)								59.3	98.2	115.1	123.9
Newtongrange (Sept 2015)								86.4	141.6	157	154.2
Shawfair (Sept 2015)								13.2	22.2	31.6	41.1
Stow (Sept 2015)								39.7	67.5	69.8	71.2
Tweedbank (Sept 2015)								300.6	436.2	437	443.8
Edinburgh Gateway (Dec 2016)									58.4	284.4	323.7

Source: ORR - Not National Statistics

1. Figures have not been adjusted to reflect ScotRail's revised methodology and are therefore not comparable with ScotRail passenger figures.

2. Prestwick airport includes rail link tickets from 2007-08.

* This is the current name - the station had a different name when it was opened (or re-opened).

Table 7.9 Rail punctuality: Public Performance Measure - for all services ⁶

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
	<i>percentage of trains arriving on time</i>										
GNER ¹	-	-	-	-	-	-	-	-	-	-	-
East Coast ^{1,3,5,7}	86.9	87.4	83.3	86.6	83.9	84.2	-	-	-	-	-
Virgin Trains East coast ⁷	-	-	-	-	-	-	88.6	85.2	83.1	81.5	-
London North Eastern Railway ¹⁰	-	-	-	-	-	-	-	-	-	-	74.8
ScotRail (First) ^{2,9}	90.7	90.6	90.1	90.7	93.0	91.4	90.5	-	-	-	-
ScotRail (Abellio) ^{2,9}	-	-	-	-	-	-	-	90.6	90.3	89.5	87.4
Virgin CrossCountry ¹	-	-	-	-	-	-	-	-	-	-	-
CrossCountry ^{1,4}	90.1	90.1	87.9	89.6	86.8	86.7	88.8	89.5	89.7	87.7	84.4
Virgin Train West Coast ^{1,8}	80.0	84.6	86.6	85.9	83.6	85.8	84.8	86.0	89.1	84.2	84.0
Caledonian Sleeper ^{1,9}	-	-	-	-	-	-	-	86.0	89.2	85.7	89.7
GB long-distance operators ¹	87.2	88.7	87.7	89.1	87.0	86.9	87.4	87.6	87.6	85.3	81.3
GB regional operators ²	90.6	92.5	91.5	92.5	91.1	91.0	91.6	91.4	91.6	89.7	85.8

Source: ORR - Not National Statistics

- 1 For long-distance operators, the figures are the percentages of trains which arrive at the final destination within ten minutes of the timetabled time (i.e. are no more than 9 minutes and 59 seconds late)
- 2 For regional operators, the figures are the percentages of trains which arrive at the final destination within five minutes of the timetabled time (i.e. are no more than 4 minutes and 59 seconds late)
- 3 National Express East Coast has taken over the franchise previously operated by GNER.
- 4 CrossCountry is now operating most of the Virgin CrossCountry franchise routes and some routes from the Central Trains franchise.
- 5 National Express East Coast services were transferred to East Coast on 13 November 2009
- 6 Figures subject to revision on annual basis.
- 7 From 1 March 2015 Virgin trains took over the East Coast operation.
- 8 Virgins Trains has been renamed Virgin West Coast.
- 9 Having been part of the ScotRail franchise until 2014-15, Caledonian Sleeper began operating as a separate franchise in 2015-16. Abellio took over the ScotRail franchise from First at the start of 2015-16.
- 10 London North Eastern Railway took over the East Coast Franchise on 24 June 2018

Table 7.10 ScotRail services: arrival times at final destinations ¹

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
	<i>percentages</i>										
Total within 5 minutes	90.6	90.7	90.1	90.7	93.0	91.4	90.5	90.6	90.3	89.5	87.4
Total within 10 minutes	96.1	95.8	95.3	95.7	97.3	96.4	95.9	96.1	96.1	95.2	94.2
Total within 20 minutes	97.7	97.3	97.0	97.1	98.4	97.7	97.4	97.4	97.3	96.6	96.0
20 minutes and over ²	1.4	1.7	1.6	1.4	1.0	1.3	1.4	1.4	1.5	1.9	1.6
Cancelled ³	0.9	1.0	1.4	1.5	0.7	1.0	1.2	1.2	1.1	1.5	2.4
	<i>thousands</i>										
Number of trains due to be run ⁴	697	715	715	719	726	744	750	752	745	759	770

Source: ORR - Not National Statistics

- 1 For example, Total within 5 minutes gives the percentage which were no more than 4 minutes and 59 seconds late
- 2 Includes part-cancelled trains (those which failed to reach their final destination but ran at least half their planned mileage)
- 3 Includes trains which ran less than half their planned mileage
- 4 As in the planned timetable for the day. This may differ from the published timetable due to (e.g.) engineering works, floods, etc.

Table 7.11 Rail passenger satisfaction: National Rail Passenger Survey

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
ScotRail passengers											
	<i>percentage who were satisfied or said good</i> ¹										
Overall opinion of journey	89	89	88	88	89	88	89	89	85	87	81
How deals with delays	40	41	42	34	39	42	47	50	39	52	39
Value for money	59	57	59	57	52	50	58	60	59	60	52
How station staff handle requests	88	86	81	89	90	87	90	93	85	88	88
Overall station environment	74	78	77	76	76	74	80	81	75	78	77
Ticket buying facilities	85	83	81	80	82	81	79	85	81	78	79
Info. re. times, platforms	83	85	85	85	88	85	87	87	86	87	86
Punctuality / reliability	89	88	87	84	87	83	84	85	83	83	74
Length of journey time	89	90	88	90	91	90	89	89	90	91	87
Ease of getting on/off ³	85	88	86	87	88	87	88	87	87		
Amount of seats / standing space ⁴	72	77	75	73	78	78	77	75	73	75	75
Frequency	82	84	82	83	82	83	83	83	82	83	78
Train Cleanliness ⁵	79	81	77	80	83	82	83	78	75	76	73
Comfort of seats ⁶	76	79	76	80	81	80	81	82	78	71	69
Sample size	2,091	2,067	2,113	2,568	2,539	2,187	2,095	2,220	2,607	2,662	2,794
Others whose journeys started in Scotland ²											
	<i>percentage who were satisfied or said good</i> ¹										
Overall opinion of journey	85	90	92	91	87	92	88	91	92	92	92
How deals with delays	54	56	62	54	55	70	48	68	60	59	63
Value for money	65	65	69	62	65	68	66	69	70	72	66
How station staff handle requests	90	87	90	86	91	90	90	93	93	93	95
Overall station environment	80	83	82	78	63	75	83	86	87	89	89
Ticket buying facilities	78	90	86	89	81	82	86	90	92	91	93
Info. re. times, platforms	86	91	91	87	86	86	89	94	95	91	93
Punctuality / reliability	87	90	88	87	89	89	89	90	94	88	86
Length of journey time	82	87	88	88	87	87	86	91	89	90	91
Ease of getting on/off ³	81	83	85	85	86	87	84	85	87		
Amount of seats / standing space ⁴	72	80	79	77	79	79	79	80	81	82	81
Frequency	72	84	82	80	79	81	84	88	89	82	83
Train Cleanliness ⁵	84	86	86	81	86	86	86	86	85	89	85
Comfort of seats ⁶	74	78	80	77	81	82	78	81	79	80	78
Sample size	391	481	562	672	706	825	786	753	672	618	614
All GB regional operators											
	<i>percentage who were satisfied or said good</i> ¹										
Overall opinion of journey	86	86	87	86	86	84	85	86	85	85	81
Punctuality / reliability	84	86	86	84	84	81	82	84	82	83	76
All GB long-distance operators											
Overall opinion of journey	84	86	87	86	88	87	86	87	87	88	85
Punctuality / reliability	81	86	86	85	87	84	83	84	84	84	78

Source: Passenger Focus - Not National Statistics

- 1 The difference from 100 includes *both* those who were dissatisfied or said poor *and* (e.g.) those who were neither satisfied nor dissatisfied.
- 2 Excluding passengers whose journey started on a ScotRail service, who are counted as ScotRail passengers
- 3 From Spring 2017 this factor is no longer in the survey. Note: There is a new factor 'Step or gap between the train and the platform' - in 2018 for ScotRail was 68% (62% for the 'Others whose journey started in Scotland). But results not at all comparable with any other factors.
- 4 Factor now called 'Level of crowding' (from spring 2)
- 5 Factor now called 'Cleanliness of the Inside of the Train' (from 20)
- 6 Factor now called 'Comfort of the seats' (from 2017).

Table 7.12 Freight traffic lifted in Scotland by destination and by commodity³

	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
Freight lifted (weight)											
by destination											
	<i>million tonnes</i>										
within Scotland	4.27	3.75	4.36	4.80	5.30	6.30	6.13	6.08	4.86	5.03	5.11
elsewhere in the UK	4.36	4.13	6.38	8.97	7.13	4.55	3.84	3.25	3.11	4.47	2.89
outwith the UK ¹	0.49	0.43	0.51	0.54	0.53	0.50	0.39	0.36	0.36	0.37	0.43
Total	9.12	8.32	11.25	14.31	12.96	11.35	10.36	9.69	8.33	9.87	8.43
by commodity											
	<i>million tonnes</i>										
minerals/ coal, coke	7.18	6.24	8.73	10.80	9.87	7.29	6.09	5.77	5.26	4.17	4.04
other	1.94	2.08	2.52	3.52	3.09	4.06	4.27	3.91	3.07	5.69	4.39
Total	9.12	8.32	11.25	14.32	12.96	11.35	10.36	9.68	8.33	9.86	8.43
Freight moved (weight x distance)											
by destination											
	<i>million tonne-kilometres</i>										
within Scotland	632	576	632	623	692	1,143	1,230	1,329	1,380	1,002	1,181
elsewhere in the UK ²	1,871	1,741	2,839	3,337	3,128	2,106	1,785	1,334	1,441	1,370	1,121
outwith the UK ¹	353	308	368	385	375	352	266	249	258	265	306
Total	2,856	2,625	3,839	4,345	4,195	3,601	3,281	2,912	3,079	2,637	2,608
by commodity											
	<i>million tonne-kilometres</i>										
minerals/ coal, coke	2,017	1,734	2,797	3,479	2,846	1,749	1,443	1,324	1,180	1,039	1,008
other ²	839	889	1,042	866	1,349	1,853	1,838	1,589	1,899	1,597	1,599
Total	2,856	2,623	3,839	4,345	4,195	3,602	3,281	2,913	3,079	2,636	2,607

Source: Rail freight companies - Not National Statistics

1. From 1996-97, outwith the UK includes freight taken to ports for export (such freight was previously counted under *either* within Scotland *or* elsewhere in the UK, depending upon the location of the port).

2. Revisions have been made to the figures for 2011-12 and earlier years.

3. Due to difficulties obtaining updates to the data covering all the rail freight companies the latest available data is for 2012/13

Table 7.13 Freight traffic with a destination in Scotland by origin (where lifted) and by commodity²

	2002-03	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
Freight lifted (weight)											
by origin											
	<i>million tonnes</i>										
lifted within Scotland	4.27	3.75	4.36	4.80	5.30	6.30	6.13	6.08	4.86	5.03	5.11
elsewhere in the UK	1.08	1.04	0.91	2.08	2.06	2.01	2.01	1.27	1.62	3.33	1.65
outwith the UK ¹	0.64	0.52	0.54	0.48	0.45	0.41	0.50	0.42	0.42	0.41	0.40
Total	5.99	5.31	5.81	7.35	7.82	8.72	8.64	7.77	6.90	8.77	7.16
by commodity											
	<i>million tonnes</i>										
minerals/ coal, coke	4.28	3.76	4.21	4.45	5.07	4.91	4.53	3.97	3.77	3.03	2.96
other	1.71	1.55	1.61	2.91	2.74	3.80	4.10	3.80	3.11	5.73	4.19
Total	5.99	5.31	5.82	7.36	7.81	8.71	8.63	7.77	6.88	8.76	7.15
Freight moved (weight x distance)											
by origin											
	<i>million tonne-kilometres</i>										
lifted within Scotland	632	576	632	623	692	1,143	1,230	1,329	1,380	1,002	1,181
elsewhere in the UK	569	556	487	479	1,012	1,089	1,062	625	890	980	678
outwith the UK ¹	438	376	390	343	327	287	339	302	302	305	296
Total	1,638	1,507	1,509	1,445	2,031	2,519	2,631	2,256	2,572	2,287	2,155
by commodity											
	<i>million tonne-kilometres</i>										
minerals/ coal, coke	639	584	607	626	632	591	626	530	502	520	505
other	999	923	902	819	1,399	1,928	2,005	1,726	2,070	1,766	1,649
Total	1,638	1,507	1,509	1,445	2,031	2,519	2,631	2,256	2,572	2,286	2,154

Source: Rail freight companies - Not National Statistics

1. From 1996-97, outwith the UK includes freight imported via ports in England and Wales, which then comes by rail into Scotland (previously, such freight was counted as lifted elsewhere in the UK).

It should be noted that, in *all* years, imported freight lifted at *Scottish* ports is counted under lifted in Scotland.

2. Due to difficulties obtaining updates to the data covering all the rail freight companies the latest available data is for 2012/13

Table 7.14 Lines open for traffic ¹

	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
	<i>kilometres</i>										
Linear routes											
Electrified	639	639	672	676	676	676	709	709	709	709	893
Non electrified	2,097	2,106	2,087	2,087	2,087	2,087	2,054	2,110	2,110	2,110	1,803
Total	2,736	2,745	2,759	2,763	2,763	2,763	2,763	2,819	2,819	2,819	2,696
Total rail length(including sidings etc)											
Electrified	..	..	..	..	..	..	..	..	..	..	902
Non electrified	..	..	..	..	..	..	..	..	..	..	1,856
Total	..	..	..	..	..	..	..	..	..	..	2,758

Source: Network Rail - Not National Statistics

1. In determining network capability, a new approach has been taken, based on using the infrastructure network model (INM), using the summation of ELR segments within electrified routes. It is believed that this is the most accurate data source to use and will provide better consistency and level of detail to network capability reporting in the coming years. There may however be discrepancies compared with previous reports due to a combination of historically over-reporting network capability (by inclusion of depots and sidings), and as a result of using a new model for reporting, which although considered to be a more accurate account of network capability, is still known to include minor inaccuracies. The INM database will be subject to ongoing review and refinement throughout CP6 to address these issues and improve on accuracy of reporting in future years.

Table 7.15 Number of stations ^{1,2}

	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
Passenger and parcel	345	346	351	351	351	351	351	358	359	359	359
Freight only	118	118	118	118	119	119	119	119	119	119	119
Total	463	464	469	469	470	470	470	477	478	478	478

Source: Network Rail - Not National Statistics

1. The figures for freight stations include main yards, sidings/depots, private terminals and sidings: ballast.

2. The figure for passenger stations for e.g. 2005-06 represents the number which were part of the national rail network at the end of the 2005-06 financial year. All are owned by Network Rail with the exception of Prestwick Airport.

Table 7.16 Number of passenger stations by local authority, 2017-18 ¹

Local Authority	number	Local Authority	number	Local Authority	number
Aberdeen, City of	2	Edinburgh, City of	12	Orkney Islands	0
Aberdeenshire	6	Eilean Siar	0	Perth & Kinross	7
Angus	7	Falkirk	5	Renfrewshire	10
Argyll and Bute	14	Fife	19	Scottish Borders	3
Clackmannanshire	1	Glasgow, City of	61	Shetland Islands	0
Dumfries & Galloway	7	Highland	59	South Ayrshire	9
Dundee City	2	Inverclyde	14	South Lanarkshire	19
East Ayrshire	6	Midlothian	4	Stirling	6
East Dunbartonshire	6	Moray	3	West Dunbartonshire	13
East Lothian	7	North Ayrshire	12	West Lothian	12
East Renfrewshire	9	North Lanarkshire	24	Scotland	359

Source: Network Rail - Not National Statistics

1. The number of stations open at the end of the financial year 2005-06. All owned by Network Rail except Prestwick Airport (South Ayrshire)

Table 7.17 Strathclyde Partnership for Transport - Glasgow Subway ¹

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17 ⁸	2017-18	2018-19
Vehicles ²	41	41	41	41	41	41	41	41	40	40	40
	<i>numbers</i>										
Loaded train kilometres ^{6,7}	3,173	3,098	2,922	3,469	3,466	3,505	3,564	3,537	..	3,439	3,495
Passenger journeys	14,103	13,055	13,009	12,888	12,604	12,702	12,951	12,713	11,376	12,685	13,150
	<i>thousands</i>										
Revenue ³	14,690	13,296	14,835	15,147	13,503	17,003	19,194	18,937	16,828	19,735	21,211
Revenue at constant prices ⁴	19,258	17,521	18,683	18,135	15,667	19,145	21,111	20,626	18,011	20,396	21,211
Passenger receipts ⁵	14,015	12,661	13,775	14,166	12,602	15,955	17,752	17,632	15,997	18,449	19,910
Pass. rec. at constant prices ⁴	18,373	16,684	17,348	16,961	14,622	17,965	19,525	19,205	17,122	19,067	19,910
	<i>£ thousands</i>										
Operational staff ⁹	361	351	331	284	170	164	161	165	164	165	165
	<i>numbers</i>										

Source: Strathclyde Partnership for Transport - Not National Statistics

1. Strathclyde Partnership for Transport took over the roles and functions of the Strathclyde Passenger Transport Authority and Executive from 1 April 2006.

2. Passenger carriages including power cars

3. These figures are headline revenue figures and include such as items as rental and advertising income.

4. Adjusted approximately for general inflation using the Retail Prices Index for the relevant year (e.g. 2001 RPI used for 2001-02).

5. These figures are passenger ticket receipts as described at paragraphs 7.9 and 7.10 in the notes and definitions for rail services.

6. Strathclyde Partnership for Transport has discovered an error in the way loaded train kilometres were calculated. The figures have been revised for previous years. Earlier editions of this publication have not been revised.

7. Figures for 2016-17 not available at time of publication due to a recalculation requirement.

8. Subway services were suspended between 2-Jul-16 and 9-Aug-16 (inclusive) for planned essential engineering works. No Subway services operated during this period.

9. Figures from 2012-13 onwards refer only to frontline operational staff.

Table 7.18 Railway accidents, Scotland ^{1,2}

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Railway accidents											
PHRTA ³											
Train collision ⁴	1	-	1	-	-	1	2	1	1	1	1
Derailments ⁵	2	1	3	2	3	-	1	1	-	-	5
Non- PHRTA ⁶											
Striking level crossing gates or barrier	1	-	-	1	-	-	-	1	-	-	-
Train striking object	9	12	13	20	22	7	11	14	9	7	7
Train striking animal ¹⁰	19	17	23	23	16	20	18	25	18	21	24
Train fire	7	7	5	1	4	-	-	1	1	1	4
Train struck by missile	6	3	2	7	4	3	3	2	3	2	2
Open door collision	1	-	-	-	-	-	1	-	-	-	-
Collisions	-	-	-	-	1	-	-	-	1	-	-
Bufferstop collision ¹¹	-	-	-	-	-	-	-	-	-	-	1
All accidents	46	40	47	54	50	31	36	45	33	32	43
Casualties											
Train accidents - deaths ⁷	-	3	-	-	-	-	-	-	-	-	-
- injuries ⁸	15	6	8	2	8	6	1	4	4	4	1
Accidents in stations											
Train accidents - deaths ⁷	-	-	-	-	-	-	-	-	2	0	1
- injuries ⁸	542	528	486	579	561	537	608	564	722	550	495
Accidents on trains											
Train accidents - deaths ⁷	-	-	-	-	-	-	-	-	-	-	-
- injuries ⁸	159	150	115	120	129	150	163	167	140	148	221
Accidents outside of trains and stations (not including suicides and or trespass) ⁹											
Train accidents - deaths ⁷	-	5	3	1	-	-	1	-	-	-	1
- injuries ⁸	211	253	287	251	219	219	261	218	252	226	192
Trespassers and suicides											
- deaths	21	22	19	21	29	24	23	20	29	18	21
- injuries ⁸	9	13	9	8	12	15	6	9	21	5	15
Total deaths	21	30	22	22	29	24	24	20	31	18	23
Total injuries	936	950	905	960	929	927	1,039	962	1,139	933	924

Source: RSSB - Not National Statistics

Annual Safety Performance Report (ASPR) - <http://bit.ly/2EYfDIF>

1. Figures for this table were previously obtained from ORR. We have now changed the source to the RSSB to improve consistency with other official statistics.

The figures in this table will therefore not be comparable with the tables published in editions of STS prior to number 34.

2. Minor revisions have been made to figures in previous years.

3. Potentially high risk train accidents- reportable under RIDDOR (ASPR, Chapter 7, Page 102).

4. Train collisions with other trains only.

5. Train derailments (ASPR, Chapter 7, Page 108).

6. Riddor reportable Train accidents not classified as PHRTA (ASPR, Chapter 7, Page 114).

7. This includes all accidental fatalities.

8. This includes all major and minor injuries (excludes Shock/trauma).

9. Injuries incurred on railway infrastructure outside of trains/ stations e.g. running line, YDS sites.

10. Work on the new system has highlighted some issues with old SMIS. One example is animals struck by trains, in which previous reporting included events such as deer strikes that were not specifically required by RIDDOR when there was no damage to the train. This historical data has been corrected to include only those events that were RIDDOR reportable.

11. One buffer stop collision took place in 2018 and was not classed as a PHRTA as no immediate permanent or temporary repair to the train was needed, and no damage was sustained by the cab window glass.

Table 7.19 Railway fatalities by local authority and category, 2018 ¹

	Trespasser	Suicide	Level Crossing User	Railway Staff	Passenger	Other Member of Public	Total
Dumfries & Galloway	1	-	-	-	-	-	1
East Dunbartonshire	-	1	-	-	-	-	1
East Lothian	2	3	-	-	-	1	6
Edinburgh	-	2	-	-	-	-	2
Falkirk	-	2	-	-	-	-	2
Glasgow	-	2	-	-	-	-	2
Highland	-	1	-	-	-	-	1
Midlothian	-	1	-	-	-	-	1
North Lanarkshire	-	1	-	-	-	-	1
Renfrewshire	1	1	-	-	-	-	2
South Lanarkshire	1	1	-	-	-	-	2
West Dunbartonshire	-	1	-	-	-	-	1
West Lothian	-	-	-	1	-	-	1
Scotland	5	16	-	1	-	1	23

Source: RSSB - Not National Statistics

1. Figures for this table prior to edition 34 of STS were obtained from ORR. We have now changed the source to the RSSB to improve consistency with other official statistics.

The figures in this table will therefore not be comparable with the tables published in previous editions of STS.

Table 7.20 Adults (16+) - views on train services of those who used them in the past month: 2016 ^{1,2}

	Agree		No view		Disagree		Sample size (=100%)			
	strongly	tend to	All	neither ... nor	no opinion	All		strongly	tend to	
Trains run to timetable	36	49	85	5	2	7	3	6	8	2560
Train service is stable and not regularly changing	35	49	84	7	3	9	2	5	7	2560
Trains are clean	33	53	86	7	1	8	1	5	6	2560
Feel safe/secure on trains during the day	51	44	95	2	1	3	0	1	1	2560
It is simple decide what type of ticket I need	42	44	87	5	2	7	2	4	7	2560
Finding out about routes and times is easy	43	47	90	5	2	7	1	3	4	2560
Easy to change from trains to other forms of transport	32	44	76	12	6	18	1	5	6	2560
Train fares are good value	19	37	56	13	2	15	11	19	29	2560
Feel safe/secure on trains during the evening	34	44	77	8	5	14	2	7	9	2560

Source: Scottish Household Survey

1. Those who had not used a train service in the past month are not asked these questions about train services.

2. Question asked every other year in the survey. 2016 is the most recent data available, next update to be published in Autumn 2020

Chapter 8: Air Transport in Scotland

- Air travel and freight in Scotland
- Passenger numbers by origin, destination and type of service
- Flight punctuality
- Freight carried
- Air transport movements

29.4 million

air terminal passengers from Scottish airports in 2018



49% travelled to or from Edinburgh

33% travelled to or from Glasgow

Edinburgh Airport had the highest number of terminal passengers in 2018, though Glasgow's share has decreased in the last year.



Spain was the most popular destination/origin for international flights

The next most popular international origins/destinations were:



2.8m

The Netherlands

Ireland

Germany



1.4m



1.3m



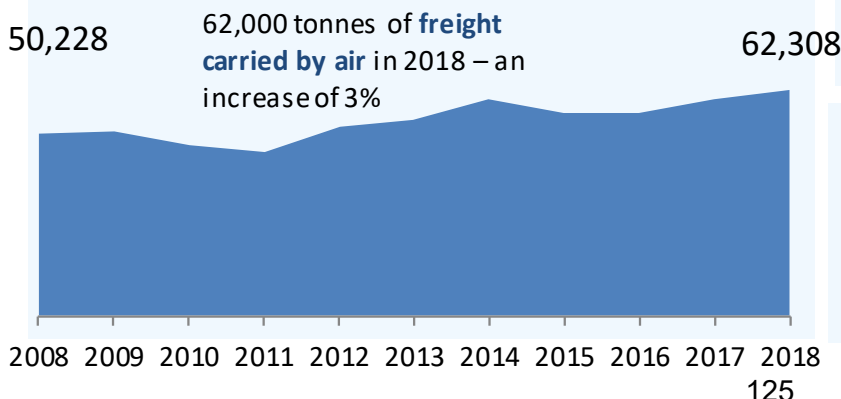
1.2m



DELAYS

	Average Delay	% flights delayed by more than 30 minutes
Edinburgh	15 minutes	13%
Glasgow	14 minutes	13%

481,000 aircraft movements were carried out in Scotland in 2018



For web publication and further information, visit http://bit.ly/STS_all Editions



AIR TRANSPORT

1. Introduction

1.1 This chapter provides information on air transport, such as passenger numbers by origin, destination and type of service, flight punctuality, amount of freight carried, air transport movements, and income and expenditure figures of airline authorities.

Key Points

- There were **29.4 million air passengers at Scottish airports in 2018**
- **Three quarters travel to or from Edinburgh or Glasgow.**
- **62 thousand tonnes of freight were carried by air in 2018.**

2. Main Points

Passengers and Airports

2.1 There were 29.4 million air terminal passengers in 2018, 0.6 million (2.1%) more than in the previous year. Passenger numbers increased by 39% between 2001 and 2007 reaching a peak of 25.1 million before falling 17% to 20.9 million in 2010, since when they have risen 41 per cent. (*Table 8.1*)

2.2 Edinburgh airport had 14.3 million terminal passengers in 2018 (7% increase) and Glasgow airport had 9.7 million, 2% less than the previous year. Aberdeen had 3.1 million, (down 1%) and Inverness had 0.9 million (2% more). Together these four airports accounted for 95% of the total. Over the past ten years, trends for these airports were similar to the national picture, except for Edinburgh which saw a levelling off in numbers after 2007 rather than a fall. (*Table 8.1*)

2.3 In 2018, London Heathrow accounted for 39% of passengers on selected domestic routes to and from Aberdeen, 23% for Edinburgh and 23% for Glasgow. London Gatwick had 36% of the domestic passengers to/from Inverness. Other domestic routes with large passenger numbers included those between Edinburgh and Gatwick, Stansted, Belfast and London City, and between Glasgow and Gatwick, Stansted, Belfast and Bristol. It should be noted that the figures will include passengers who are going for connecting flights to the rest of the world. (*Table 8.2*)

Origin/destinations

2.4 The most popular country of origin/destination for passengers flying directly to and from Scottish airports was Spain (excluding the Canary Islands) with 2.8 million passenger journeys in 2018, 17% of all passengers on direct flights abroad. Other popular origins/destinations were the Netherlands (1.4 million passengers), the Irish Republic (1.3 million passengers) and Germany (1.2 million passengers). The trends for many destinations are increasing numbers of passengers, either as a result of more people travelling or more routes becoming available. (*Table 8.3a and Table 8.3b*)

2.5 Some countries e.g. Cape Verde Islands and Israel are only served by charter flights, whereas all those who travelled to/from Canada or the Qatar used scheduled flights. (*Table 8.4*)

2.6 The most popular international airports (those with the largest numbers of passenger journeys for flights directly to and from Scotland's main airports in 2018) were Amsterdam with 1.4 million passengers and Dublin with 1.2 million passengers. (*Table 8.5*)

2.7 In 2018, 5% of all terminal passenger traffic was within Scotland, 39% was to/from other parts of the UK, and 44% was between Scotland and mainland Europe. (*Table 8.6*)

Delays and Movements

2.8 In 2018, the overall average delay was 15 minutes for flights to or from Edinburgh and 14 minutes to or from Glasgow airports (the Notes and Definitions section, page 225 describes the basis for these figures). Around 13% of flights to or from both Edinburgh and Glasgow airports were delayed by more than 30 minutes. (*Table 8.8*)

2.9 The total number of aircraft movements in 2018 was 481,000. Edinburgh had the highest number of aircraft movements with 130,000, (97% of which were commercial movements), followed by Glasgow (97,000) and Aberdeen (91,000). (*Table 8.9*)

Air freight

2.10 Air freight carried in 2018 increased by 2,045 tonnes (3%) over the previous year to 62,308 tonnes. (*Table 8.13*)

Other statistics

2.11 The Civil Aviation Authority's 2018 passenger survey found large differences between the 4 main airports. Business passengers ranged from 22% at Glasgow and Edinburgh to 47% at Aberdeen. Fifty three per cent of passengers at Aberdeen airport were for leisure, compared with 79 per cent at Glasgow. (*Table 8.14*)

2.12 While around 30-49% of departing passengers at each airport arrived by private car, there were marked differences in the use of other modes of transport: taxi/minicab use ranged from 5% at Inverness to 29% at Glasgow; bus/coach travellers varied from 7% at Edinburgh to 12% at Aberdeen and hire car users from 3% at Glasgow to 25% at Inverness. (*Table 8.15*)

Table 8.1 Summary of air transport

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Passengers											<i>thousand</i>
Terminal	24,348	22,496	20,907	22,065	22,207	23,250	24,076	25,507	26,924	28,833	29,443
Transit	85	43	50	46	29	25	27	26	21	21	23
Total	24,433	22,539	20,957	22,111	22,236	23,275	24,103	25,533	26,945	28,854	29,466
Terminal passengers¹ by airport											<i>thousand</i>
Aberdeen	3,290	2,984	2,763	3,083	3,329	3,440	3,723	3,469	2,955	3,090	3,056
Barra	11	10	10	10	11	9	11	11	13	15	15
Benbecula	34	33	30	34	31	31	31	32	32	33	35
Campbeltown	9	9	9	9	9	9	9	8	8	9	8
Dundee	61	72	70	62	55	28	22	22	38	21	21
Edinburgh	8,992	9,043	8,594	9,384	9,194	9,775	10,159	11,113	12,348	13,409	14,292
Glasgow	8,135	7,213	6,522	6,858	7,150	7,358	7,709	8,710	9,324	9,895	9,653
Glasgow Prestwick	2,414	1,817	1,660	1,296	1,067	1,145	912	610	672	696	681
Inverness	671	583	528	579	602	607	611	668	782	874	893
Islay	29	26	25	26	21	26	27	29	28	32	33
Kirkwall	138	138	129	134	132	150	151	150	153	164	170
Lerwick (Tingwall)	5	5	5	5	5	4	4	4	4	4	4
Scatsta	243	270	279	288	304	298	280	254	162	171	175
Stornoway	131	122	112	122	116	120	127	125	124	132	133
Sumburgh	154	139	139	143	149	210	263	270	249	256	246
Tiree	8	8	8	8	7	8	9	10	11	12	12
Unst	0	0	0	0	0	0	0	0	0	0	0
Wick John O'Groats	23	21	22	24	25	33	28	24	20	18	17
Freight	50,228	50,886	47,532	45,162	52,200	54,225	59,878	56,441	55,880	60,263	62,308
Aircraft movements²											<i>thousand</i>
Air transport											
Domestic ³	247	225	206	206	204	201	202	207	197	210	205
International ^{3,4}	139	129	124	135	138	145	146	142	146	151	154
Air taxi ³	31	28	24	26	29	30	28	30	33	23	18
Other movements ⁵	126	108	102	100	107	104	107	101	105	111	104
Total	543	490	457	467	478	480	483	480	481	495	481

Source: Civil Aviation Authority - Not National Statistics

1. Statistics are not collected for some of the smaller airports on Orkney and Shetland, which are therefore not included in any overall totals.

2. 'Aircraft movements' excludes both Campbeltown and Barra pre-1999 (see table 8.11).

3. For 2000 and earlier years, air taxi movements were counted under domestic and International aircraft movements. From 2001, this breakdown is no longer available. They have therefore been shown separately for 2001 onwards.

4. Including UK offshore flights.

5. Other includes positioning flights, local movements, test and training, other flights by air transport operators, aero club, private, official, military and business

Table 8.2 Passengers on selected domestic routes, to/from certain Scottish airports ¹

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	<i>thousands</i>										
Aberdeen											
Glasgow	0.1	-	-	0.2	0.1	0.1	0.1	-	0.1	0.3	-
Kirkwall	44.4	39.5	38.6	41.5	47.2	48.6	49.1	48.2	35.7	54.9	57.6
Scatsta	130.8	145.1	151.4	154.1	168.1	165.7	159.9	142.7	75.1	94.6	94.1
Stornoway	7.1	6.4	6.3	6.0	5.6	5.5	6.2	5.5	3.6	4.8	6
Sumburgh	74.9	63.8	63.5	69.1	75.2	115.3	150.7	143.7	107.4	155.5	140.7
Wick John O'Groats	16.6	14.5	14.7	14.8	14.6	13.9	14.4	12.8	5.7	6.9	7.8
Gatwick	148.0	135.5	129.9	177.8	233.9	173.2	161.8	163.2	143.7	156.4	150.1
Heathrow	656.0	641.3	617.7	652.5	663.8	712.2	776.9	726.7	592.7	622	675.8
London City	-	-	-	-	15.8	73.2	72.0	63.3	64.5	54.4	42.2
Luton	139.4	126.9	129.0	147.7	120	82.8	74.5	71.3	72.1	75.1	72.6
Belfast ²	25.4	24.2	19.0	18.9	21.5	30.2	37.5	40	43.3	42.8	41.9
Birmingham	146.5	111.1	89.9	83.0	87.3	96.8	125.1	115.8	129.6	131.1	112.6
Bristol	26.9	23.2	22.7	32.8	32.9	34.9	31.8	26.4	21.6	16.7	13.2
Cardiff Wales	-	6.9	0.5	10.5	14.1	13.2	12.9	10.6	5.6	8.4	6.8
Durham Tees valley	33.2	31.9	29.9	31.3	33.4	32.7	35	28.2	13.2	17.5	21.5
East Midlands	20.8	19.5	18.1	18.9	19.8	18.4	16.7	15.5	5.4	-	-
Exeter	17.6	28.1	30.1	22.4	4.8	-	-	-	-	0.1	-
Humberside	33.7	32.0	27.1	30.2	32.2	34.2	36.6	30.1	18.2	23.6	23.1
Leeds/Bradford	21.6	15.5	8.1	0.5	0.6	12.3	7.0	9.2	3.6	5.1	2.2
Manchester	132.3	104.6	93.1	144.5	180.7	203.3	226.1	202.6	202.4	208.1	218.6
Newcastle	22.4	18.5	26.4	24.8	24.9	30.8	30.2	20.8	8.9	11.4	10.9
Norwich	65.8	60.9	60.0	61.7	64.6	63.8	60.2	50.6	42.4	45.4	41.9
Southampton	55.5	45.2	27.9	22.6	16.3	9.5	14.0	13.9	6.7	14.2	7.7
Total these routes	1,819.0	1,694.6	1,603.9	1,765.8	1,877.4	1,970.6	2,098.7	1,941.1	1,601.5	1,749.3	1,747.3
Channel Islands	2.4	2.0	2.2	2.1	2.3	2.2	13.0	17.9	2.4	2.8	2.5
Edinburgh											
Inverness	7.5	0.9	1.0	-	-	-	-	-	0.1	0.2	-
Kirkwall	35.7	39.1	35.6	36.5	40.0	43.5	45.4	44.5	45.8	45.9	46.2
Stornoway	28.3	31.8	21.9	21.7	19.9	19.3	20.5	20.6	20.6	16.9	17.9
Sumburgh	30.8	32.9	32.4	35.6	36.9	39.9	45	44.8	43.5	47.1	47.6
Wick John O'Groats	7.3	7.6	7.8	9.1	9.6	11.4	11.7	11.1	11.6	11.1	9.3
Gatwick	704.9	647.9	604.1	669.1	696.8	693.7	690.4	672.9	700.1	737.3	740.9
Heathrow	1,319.0	1,306.1	1,244.8	1,271.5	1,255.0	1,355.9	1,472.8	1,383.9	1,053.4	1,179.8	1,198.8
London City	371.5	326.6	334.7	344.9	322.7	333.9	352.3	532.9	528	484.9	497
Luton	359.5	315.6	242.1	259.4	269.8	273.5	259.7	266.6	272.5	309.1	315.1
Stansted	401.9	373.7	329.9	390.4	346.4	326.6	360.3	622.2	836.9	720.3	732
Belfast ²	363.4	351.5	331.2	351.9	361.5	372.8	377.9	400.8	439.9	456.9	479.4
Birmingham	401.1	336.2	288.0	289.0	285.9	284.2	284	277.9	267.3	255.1	267.7
Bournemouth	19.3	88.4	17.7	-	0.2	0.1	-	0.3	0.1	-	0.1
Bristol	249.8	235.2	227.0	286.6	295.5	305.2	322.8	352	381.9	393.9	400
Cardiff Wales	162.6	161.0	111.5	83.6	77.7	77.0	57.6	69.2	94.3	99.4	102.1
City of Derry	-	-	-	-	-	-	-	-	-	-	13.4
East Midlands	164.1	130.2	108.7	109.8	72.7	86.7	92.7	95.3	93.7	92.9	93.2
Exeter	68.0	61.1	53.8	51.4	40.2	36.5	38.3	45.1	45.2	47.6	48.1
Leeds/Bradford	36.5	19.0	13.0	9.8	2.2	-	-	-	-	-	-
Liverpool	-	-	-	-	-	-	-	-	15.9	-	0.2
Manchester	228.6	158.3	126.7	119.6	108.3	118.5	109.3	114.1	102.3	117.4	117
Manston (Kent Int)	-	-	17.6	26.5	3.4	-	-	-	-	-	-
Newquay	17.9	12.2	13.1	13.7	9.9	4.5	2.3	2.4	2.7	5	4.4
Norwich	58.6	50.4	47.8	46.4	39.7	24.7	28.5	29.3	25.8	28.6	29.8
Southampton	205.1	191.5	194.0	203.6	204.5	207.6	203.2	194.1	198.5	208.1	183.2
Southend	-	-	-	-	-	39.1	23.7	-	-	0.7	0.1
Total these routes	5,241.4	4,877.2	4,404.4	4,630.1	4,498.8	4,615.5	4,774.7	5,180.0	5,180.1	5,020.8	5,130.4
Channel Islands	28.7	23.2	18.3	14.6	11.1	9.2	3.2	6.4	7.0	5.5	20.3
Isle of Man	13.0	11.5	11.4	11.6	10.8	4.2	-	-	-	3.5	6.2

Source: Civil Aviation Authority - Not National Statistics

1. In this table only, non-paying passengers are excluded up to 2001 but included from then on. In addition, this table excludes some of the smaller domestic routes.

Note also that passengers between the four main cities will be counted twice (e.g. flights between Aberdeen and Edinburgh will appear in both the 'Aberdeen' and the 'Edinburgh' sections).

2. Belfast includes Belfast and Belfast City airport.

Table 8.2(continued) Passengers on selected domestic routes, to/from certain Scottish airports ¹

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	<i>thousands</i>										
Glasgow											
Barra	9.1	8.7	8.6	8.4	9	9.1	10.5	10.7	12.8	14.9	14.7
Benbecula	25.2	24.7	21.9	22.6	19.7	21.8	23	23.5	24.2	24.1	26.1
Campbeltown	9.1	9.3	8.7	9.2	8.6	9.3	9.3	8.2	8.4	8.6	8.4
Inverness	0.1	-	-	-	-	-	0.1	-	0.5	0.2	0.2
Islay	29.3	26	25	26	25.1	25.6	27.2	28.7	22.3	32.6	32.8
Kirkwall	15.1	15.4	14.9	15.3	15.1	17.6	17.3	17.4	16.0	19.6	22.5
Stornoway	58.1	53.7	51.0	55.1	55.6	57.5	61.9	62.4	55.4	75	75.9
Sumburgh	17.2	17.4	16.8	17.9	18.0	20.1	24.5	28.6	24.5	33	29.2
Tiree	7.9	7.3	7.2	7.8	7.9	7.6	8	8.7	8.3	11.3	11.7
Gatwick	521.9	514.7	488.8	565.8	607.4	606.3	613.3	612.5	608.6	618.7	620.4
Heathrow	1,143.5	1,080.0	1,003.3	820.9	828.5	870.0	871.0	907.9	893.8	909.1	911.2
London City	112.7	114.9	111.1	149.4	158.2	175.4	207.9	238.4	235.1	231.1	230.2
Luton	352.4	326.0	247.7	274.6	276.5	280.7	270.2	215.1	214.7	234.8	243.7
Stansted	358.6	305.1	301.8	342.8	331.6	308.7	304.2	533.3	652.4	527.1	432.3
Belfast ²	324.2	323.9	308.2	352.8	367.0	370.1	384.6	421.5	452.2	424.6	440.3
Birmingham	337.1	269.4	212.6	211.9	208.1	203.5	229.4	226.7	226.7	221.7	234.5
Bristol	220.2	212.3	201.2	222.2	239.7	257.4	245.3	267.2	297.3	307	312.1
Cardiff Wales	84.0	56.4	52.4	47.2	39.8	48.2	27.9	18.1	37.7	28.9	33.3
City of Derry	9.4	-	-	-	-	-	13.3	76	80.7	85	64.7
East Midlands	150.9	115.0	99.7	103.4	70.7	85.5	91.9	95	109.5	102.7	97.1
Exeter	39.4	33.4	26.5	24.4	25.6	23.8	20.7	3.1	32.8	38.8	39.9
Leeds/Bradford	30.4	19.9	14.6	13.2	11.9	10.0	9.8	8.3	7	7	-
Manchester	151.8	100.4	68.3	49.4	50.0	52	68.3	45.4	42.5	51.2	62.5
Newquay	2	0.3	0.2	0.9	3.6	1.8	-	-	2.3	3.1	2
Plymouth	17.2	24.4	23.3	13.6	-	-	-	-	-	-	-
Southampton	161.6	156.3	143.4	139.6	173.6	182.6	173	158.3	179.4	197.8	186.3
Southend	-	-	-	-	-	-	-	-	-	-	42
Total these routes	4,144.6	3,772.4	3,417.8	3,453.7	3,513.9	3,604.4	3,669.8	3,972.6	4,160.9	4,107.9	4,027.3
Channel Islands	5.6	5.4	9.2	17.0	28.3	36.4	34.1	34.7	40.7	56.1	55.7
Isle of Man	16.7	13.8	11.0	11.0	11.1	4.0	7.5	9.9	8.0	5.5	2
Glasgow Prestwick											
Stansted	402.7	278.3	224.6	88.5	-	-	-	-	-	0.1	-
Belfast City	86.3	91.7	61.2	-	-	-	-	-	-	0.2	-
Bournemouth	129.0	34.3	-	-	-	-	-	-	-	-	-
Cardiff Wales	-	-	-	-	-	-	-	-	-	0.1	-
City of Derry	64.0	51.3	55.0	70.6	72.8	69.5	52.1	-	-	-	-
Total these routes	682.0	455.6	340.8	159.1	72.8	69.5	52.1	-	-	0.4	-
Channel Islands	-	-	1.4	-	-	-	-	-	-	-	-
Isle of Man	-	-	-	-	-	-	-	-	-	0.1	-
Inverness											
Benbecula	0	0	0	0	0	0.7	1.4	2.1	-	-	-
Kirkwall	25.1	24.8	23.1	21.7	16.8	19.2	19.1	19.9	19.2	23.7	22.6
Stornoway	35.6	33.1	29.8	36.4	36.2	32.9	29.1	27.1	31.2	29.2	27.6
Sumburgh	0.2	-	-	1.5	4.2	3.3	3.4	3.7	3.5	1.0	0.1
Gatwick	243.2	224.9	206.8	222.7	230.4	219.3	192.9	207.1	237.9	263.4	262.2
Heathrow	7.9	-	-	-	-	-	-	-	57.9	79.1	97.6
London City	-	-	-	-	-	-	7.6	4.9	-	-	-
Luton	102.5	86.6	90.3	99.6	88.8	91.8	89.6	93.5	133.9	136.4	147.2
Stansted	-	-	-	0.2	0.1	-	-	-	0.1	0.4	0.1
Belfast ²	22.6	19.3	16.8	21.5	23.6	23.3	27.2	29.2	30.3	33.2	36
Birmingham	24.9	30.3	30.4	30.3	33.0	34.8	41.2	41.4	42.5	44.1	45.1
Bristol	74.0	73.3	69.2	75.4	78.1	81.2	77.6	82.4	87.7	96.7	92.8
East Midlands Int	40.2	20.4	-	-	-	-	-	-	-	-	0.1
Manchester	42.9	50.5	46.4	49.2	51.0	55.8	70.5	84.5	68.2	65.6	56.7
Southampton	14.9	3.9	2.4	2.1	1.8	-	-	-	-	-	-
Total these routes	634.0	567.1	515.2	560.6	564.0	561.6	558.2	593.7	658.5	718.9	737.8
Channel Islands	0.9	1.2	1.3	1.8	1.6	1.7	1.8	2.1	1.9	2.0	1.8

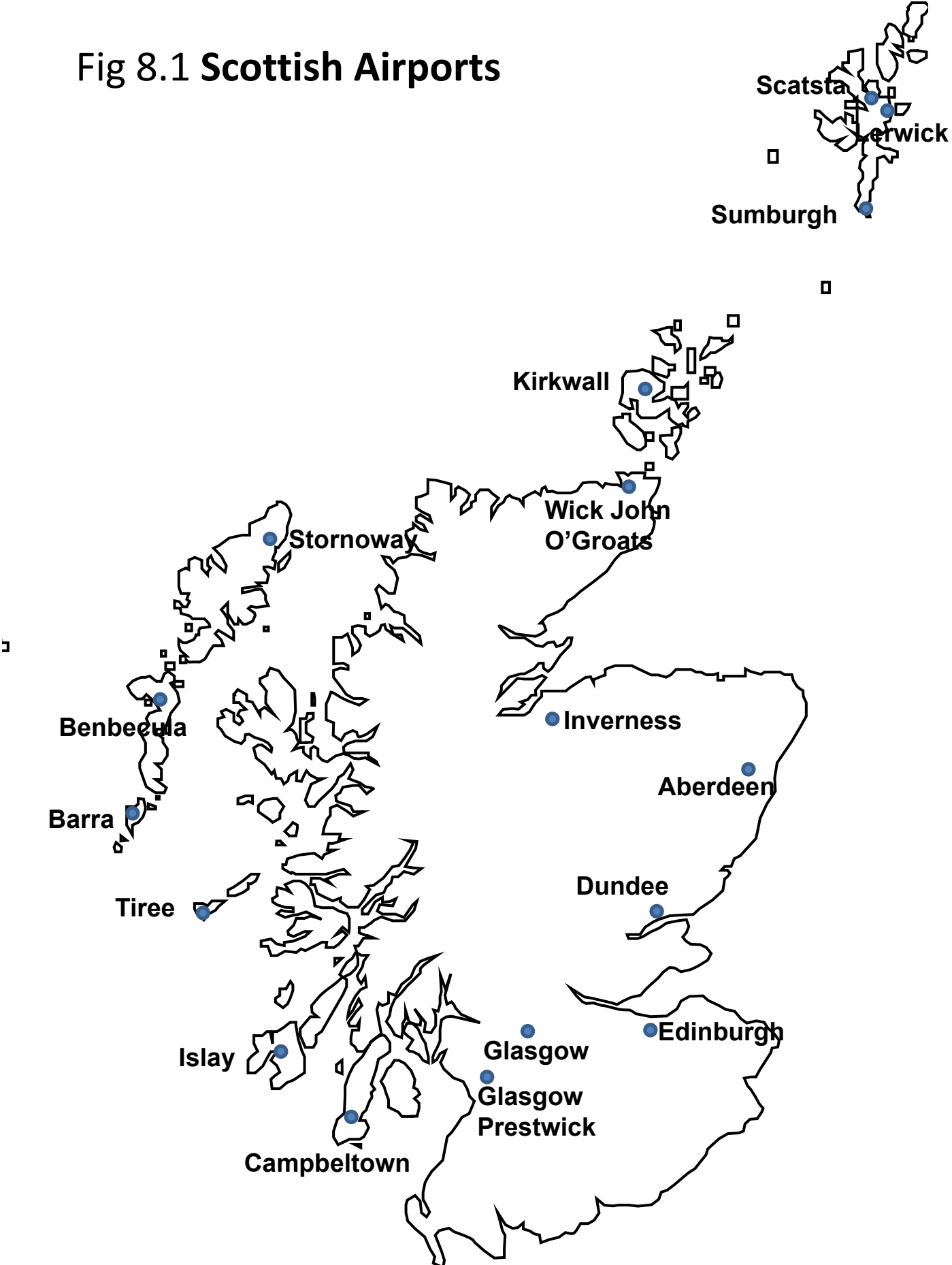
Source: Civil Aviation Authority - Not National Statistics

1. In this table only, non-paying passengers are excluded up to 2001 but included from then on. In addition, this table excludes some of the smaller domestic routes.

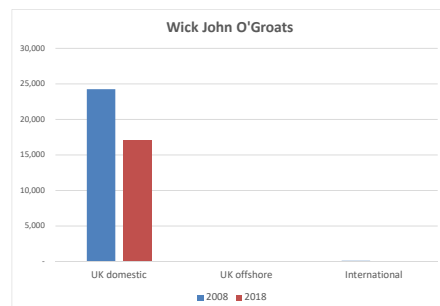
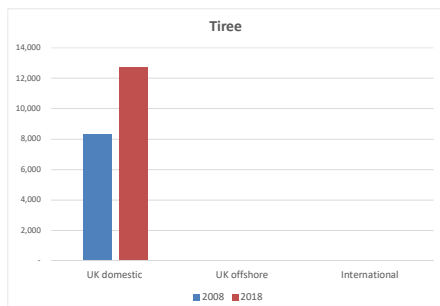
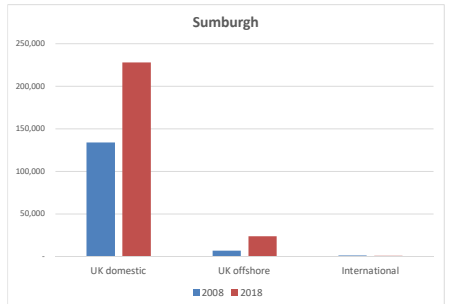
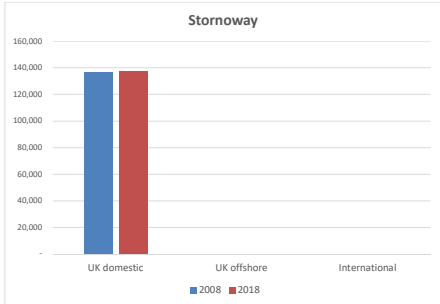
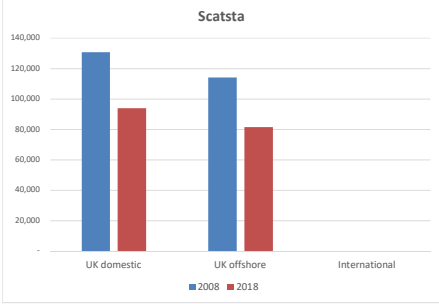
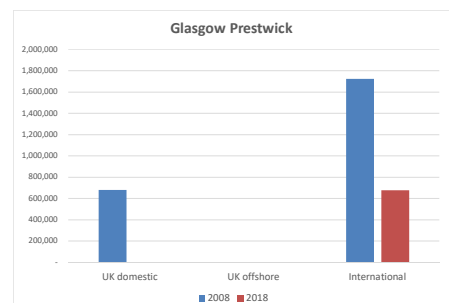
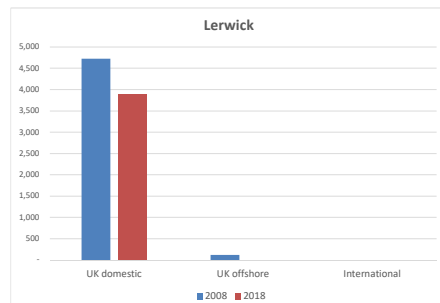
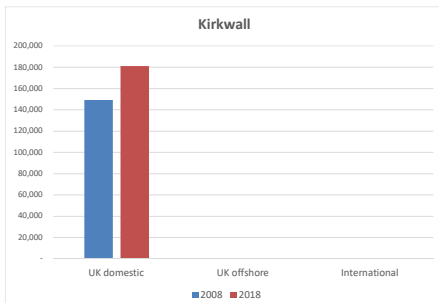
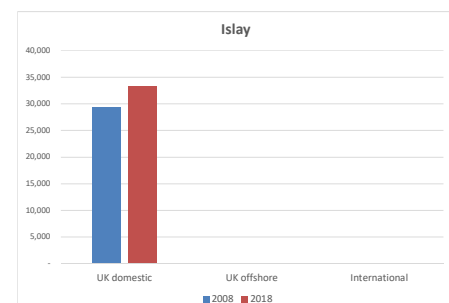
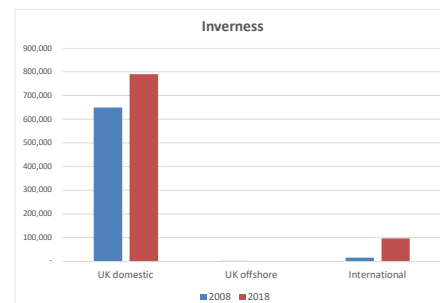
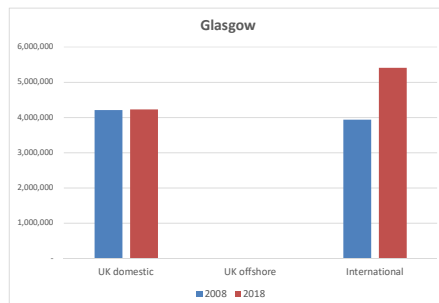
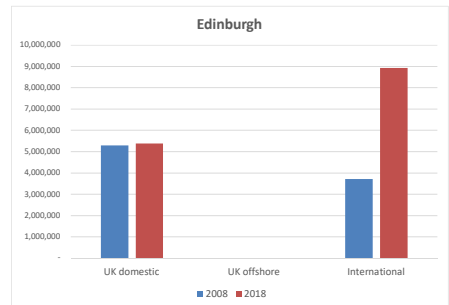
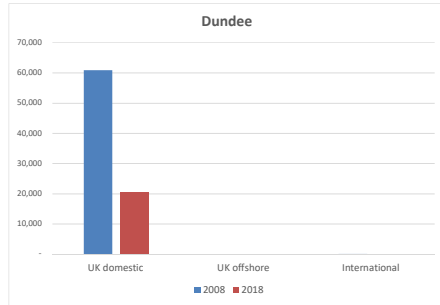
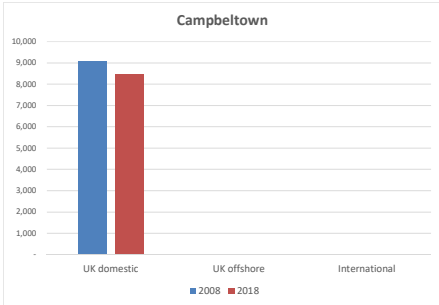
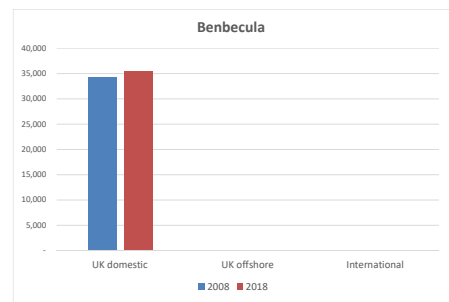
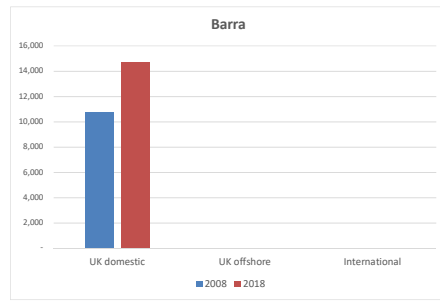
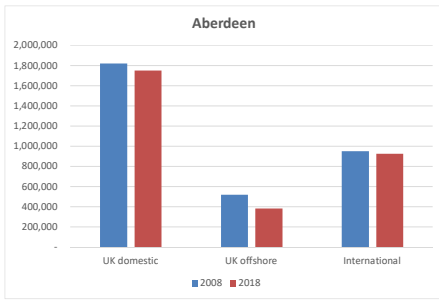
Note also that passengers between the four main cities will be counted twice (e.g. flights between Aberdeen and Edinburgh will appear in both the 'Aberdeen' and the 'Edinburgh' sections).

2. Belfast includes Belfast and Belfast City airport.

Fig 8.1 Scottish Airports



Terminal Air Passenger Traffic 2008 and 2018



AIR TRANSPORT
Table 8.3 (a) International air passenger traffic to and from the main Scottish international airports¹

REGIONAL AREA / COUNTRY	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
EU 28 countries (Excl UK)											<i>thousand</i>
Austria	21.7	28.9	24.9	28.2	28.3	28.6	29.9	29.0	79.6	89.7	95.2
Belgium	121.0	113.3	134.0	110.6	115.6	153.7	153.0	172.2	194.8	216.5	239.9
Bulgaria	63.1	48.4	45.2	45.6	46.8	46.1	39.3	39.3	49.6	73.6	91.1
Croatia ³	12.9	24.3	11.6	7.1	12.9	31.6	42.0	56.3	62.2	109.7	102.7
Cyprus	152.8	139.4	95.9	148.7	152.9	119.6	112.4	134.3	162.4	175.4	181.5
Czech Republic	63.4	47.5	44.6	47.9	48.0	89.6	79.0	96.3	97.9	124.6	181.4
Denmark	147.2	178.1	175.8	178.2	188.6	220.3	187.0	254.0	298.3	266.5	279.2
Estonia	-	-	-	29.1	-	-	-	0.2	0.1	-	6.6
Finland	5.7	3.5	34.6	37.4	32.1	3.7	4.5	4.8	32.1	39.9	54.9
France	859.4	862.1	790.7	787.5	808.3	806.7	727.2	725.7	861.7	909.6	987.5
Germany	641.7	663.7	660.3	682.0	698.7	761.2	823.5	852.6	1,009.8	1,127.6	1,196.8
Greece	161.6	158.9	153.8	163.7	212.9	193.0	270.3	258.6	277.2	335.2	370.1
Hungary	33.1	30.2	19.6	24.4	36.5	37.9	37.1	60.6	86.9	94.1	131.5
Irish Republic	1,186.3	1,015.9	849.4	852.8	816.6	843.9	950.8	1,102.3	1,239.0	1,296.6	1,313.5
Italy	348.1	401.8	359.2	342.3	384.3	396.9	375.4	398.7	584.9	684.2	753.2
Latvia	31.5	36.5	47.2	46.5	20.2	31.9	38.5	20.3	29.5	43.5	37.3
Lithuania	6.0	-	28.3	32.3	29.0	24.8	21.3	29.8	36.2	42.4	37.4
Luxembourg	-	-	-	-	0.2	0.1	0.1	0.0	0.5	0.8	0.1
Malta	37.9	45.6	52.7	71.2	57.5	61.5	67.1	74.8	84.8	96.3	114.7
Netherlands	1,078.8	987.2	1,006.9	1,135.0	1,223.3	1,244.6	1,323.5	1,353.4	1,368.7	1,409.3	1,438.7
Poland	384.3	374.2	328.0	326.9	341.3	431.4	355.7	489.7	589.8	625.2	611.8
Portugal (excl Madeira)	266.0	207.5	212.4	280.0	273.9	298.3	294.8	306.5	346.0	436.1	440.8
Portugal (Madeira)	36.1	34.4	21.7	23.1	22.8	21.3	29.3	53.4	55.7	52.5	36.0
Romania	-	3.0	-	-	-	-	0.4	1.9	58.2	70.8	44.5
Slovak Republic	6.6	50.3	49.9	44.2	33.6	32.1	23.1	23.6	30.9	39.3	38.0
Slovenia	0.1	0.1	0.2	0.9	-	-	0.3	-	0.4	1.1	0.6
Spain (excl Canary Isles)	1,908.4	1,679.7	1,483.7	1,726.8	1,746.8	1,929.4	1,874.3	1,987.3	2,351.0	2,818.9	2,769.0
Spain (Canary Islands)	795.6	666.0	658.1	838.3	816.6	849.5	934.1	933.1	1,145.0	1,336.2	1,268.3
Sweden	149.5	159.3	131.9	137.4	128.2	112.6	83.5	105.7	107.8	136.6	164.4
Total EU28 countries (Excl UK)	8,518.8	7,959.8	7,420.7	8,148.2	8,275.7	8,770.4	8,877.3	9,564.2	11,241.1	12,652.3	12,986.7
<i>Total EU15 countries²</i>	<i>7,727.1</i>	<i>7,160.3</i>	<i>6,697.4</i>	<i>7,323.5</i>	<i>7,497.1</i>	<i>7,863.9</i>	<i>8,061.0</i>	<i>8,537.2</i>	<i>9,952.0</i>	<i>11,156.2</i>	<i>11,407.7</i>
Other identified countries											
Azerbaijan	-	-	-	4.1	5.8	-	-	0.2	-	-	-
Barbados	7.1	8.0	8.4	7.6	6.0	5.2	6.4	7.3	5.1	7.8	8.1
Canada	160.0	107.5	103.3	112.4	117.8	106.1	112.3	148.4	166.6	168.0	182.0
Cape Verde Islands	-	-	-	13.4	22.0	0.2	-	-	3.3	20.8	16.0
China	-	-	-	-	-	-	-	-	-	-	19.3
Cuba	-	-	0.8	1.3	0.8	0.6	0.6	0.9	2.9	0.6	0.6
Dominican Republic	22.8	25.5	23.1	16.8	0.7	-	6.1	-	-	-	0.2
Egypt	67.5	97.9	97.8	72.9	66.3	67.0	46.8	44.9	-	3.6	8.1
Faroe Islands	0.7	0.5	1.1	0.9	0.6	1.5	1.4	8.6	11.0	12.7	15.5
Greenland	-	-	4.1	8.7	-	0.2	-	-	-	-	-
Iceland	30.8	9.7	25.0	33.2	42.6	72.8	97.0	112.6	172.0	227.6	213.3
Jamaica	-	2.3	0.5	0.9	-	-	0.2	1.3	0.8	3.0	4.6
Mexico	22.1	22.9	28.6	35.3	33.2	30.5	29.2	37.1	38.7	39.5	48.3
Morocco	-	-	19.7	25.2	0.2	0.2	5.4	30.9	15.8	-	-
Norway	305.2	302.1	281.2	309.4	337.4	339.9	352.8	320.5	288.1	271.6	293.1
Pakistan	18.4	25.5	26.3	1.9	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	54.0	115.5	134.0	133.3	140.7
Russia	-	0.8	0.7	-	0.7	0.8	-	0.1	0.1	-	1.0
Switzerland	155.5	148.2	154.9	215.4	236.5	241.1	266.0	276.9	281.8	350.1	353.7
Tunisia	34.0	38.9	66.3	21.6	32.7	61.4	67.7	35.2	-	-	14.4
Turkey	260.4	268.6	329.3	328.0	316.0	351.7	404.0	425.7	319.1	257.3	369.4
United Arab Emirates	240.7	244.7	268.5	275.0	314.7	402.3	424.6	502.4	555.7	585.7	580.6
United States of America	483.5	459.7	366.1	411.3	367.7	367.0	446.8	489.1	524.8	676.0	681.5
Total these countries	1,808.7	1,762.8	1,805.5	1,895.3	1,901.6	2,048.4	2,321.3	2,557.5	2,519.7	2,757.7	2,950.7
All identified countries for these airports	10,327.5	9,722.6	9,226.2	10,043.5	10,177.3	10,818.7	11,198.7	12,121.7	13,760.8	15,409.9	15,937.3

Source: Civil Aviation Authority - Not National Statistics

1. For the purpose of preparing this table, Scotland's main international airports are Aberdeen, Edinburgh, Glasgow and Glasgow Prestwick. This table does not cover all international traffic, as indicated by the lower part of table 8.4.

2. The EU15 was the number of member countries in the European Union prior to the accession of ten candidate countries on 1 May 2004. The EU15 comprised the following 15 countries: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Netherlands, Portugal, Spain, Sweden, United Kingdom.

3. Croatia joined the EU in 2013.

Table 8.3(b) Scheduled international passenger traffic to/from the main Scottish international airports¹

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Foreign airports served ²	95	103	100	101	107	113	110	120	137	152	159
Routes ³	150	168	145	146	154	167	176	185	219	252	259
Passengers on scheduled services	8,153.4	8,054.5	7,390.8	8,172.6	8,396.7	9,240.5	9,824.0	10,805.1	12,605.2	14,244.5	15,155.6

Source: Civil Aviation Authority - Not National Statistics

1. These figures are produced from the information about scheduled services in the Civil Aviation Authority's UK Airport Statistics Table 12.1, so are based on its conventions and definitions.

For the purpose of this table, Scotland's main international airports are Aberdeen, Edinburgh, Glasgow and Glasgow Prestwick. This table does not cover all scheduled international traffic.

2. The number of foreign airports is shown in the CAA table as the destinations of international scheduled services from Scottish airports in that year. For example, the CAA table shows Rome (Ciampino) and Rome (Fiumicino) separately (for services from Glasgow Prestwick and Edinburgh respectively, in 2003) so they are counted as two separate foreign airports.

3. International scheduled services to the same foreign airport from different Scottish airports are counted as separate routes. For example, Aberdeen/Dublin, Edinburgh/Dublin, Glasgow/Dublin and Glasgow Prestwick/Dublin are counted as four separate routes. More than one airline may operate services on a particular route.

Table 8.4 Passenger traffic on selected international routes, to and from Scotland's main airports¹, 2018

	Scheduled	Charter	Total
Albania	-	218	218
Armenia	-	100	100
Austria	71,088	24,110	95,198
Barbados	-	8,100	8,100
Belgium	239,476	406	239,882
Bosnia-Herzegovina	-	-	-
Bulgaria	54,959	36,117	91,076
Canada	182,040	-	182,040
Cape Verde Islands	-	16,030	16,030
China	19,329	-	19,329
Croatia	85,545	17,112	102,657
Cuba	640	-	640
Cyprus	130,340	51,157	181,497
Czech Republic	181,205	181	181,386
Denmark	278,329	836	279,165
Dominican Republic	-	214	214
Estonia	6,528	88	6,616
Egypt	8,031	89	8,120
Faroe Islands	14,749	776	15,525
Finland	48,054	6,829	54,883
France	959,060	28,485	987,545
Georgia	-	95	95
Germany	1,193,093	3,729	1,196,822
Greece	314,598	55,509	370,107
Hungary	131,256	204	131,460
Iceland	212,584	675	213,259
Irish Republic	1,310,708	2,766	1,313,474
Israel	-	3,692	3,692
Italy	708,169	45,055	753,224
Jamaica	-	4,615	4,615
Jordan	-	23	23
Kazakhstan	-	-	-
Latvia	37,340	-	37,340
Lithuania	37,313	122	37,435
Luxembourg	-	50	50
Malta	114,651	-	114,651
Macedonia	-	188	188
Mexico	25,301	23,003	48,304
Netherlands	1,437,979	762	1,438,741
Norway	290,230	2,865	293,095
Poland	609,953	1,875	611,828
Portugal(Excluding Madeira)	437,106	3,720	440,826
Portugal(Madeira)	35,984	-	35,984
Qatar	140,727	-	140,727
Republic Of Korea	-	320	320
Romania	44,484	-	44,484
Russia	-	989	989
Slovak Republic	35,903	2,115	38,018
Slovenia	-	582	582
Spain	2,563,617	205,393	2,769,010
Spain(Canary Islands)	1,098,416	169,908	1,268,324
Sweden	164,043	375	164,418
Switzerland	347,417	6,326	353,743
Tunisia	14,427	-	14,427
Turkey	335,102	34,270	369,372
United Arab Emirates	579,948	630	580,578
United States of America	655,876	25,672	681,548
Total passenger traffic counted for these countries for Scotland's main airports²	15,155,598	786,058	15,941,656
Other international traffic at main Scottish airports²	..	..	318
All international traffic for Scotland's main airports	..	..	15,941,974
International traffic at other Scottish airports	..	..	98,783
Total International traffic at all Scottish airports	..	..	16,040,757

Source: Civil Aviation Authority - Not National Statistics

1. For the purpose of preparing this table, Scotland's main international airports are Aberdeen, Edinburgh, Glasgow and Glasgow Prestwick.

2. Charter only routes are counted under 'Other international traffic' in cases where fewer than 5,000 passengers were carried from an airport to a particular country.

Table 8.5 The 10 international airports with the largest numbers of passenger journeys for flights directly to and from Scotland's main airports ¹, 2018

	Scheduled	Charter	Total
Amsterdam	1,388,257	193	1,388,450
Dublin	1,169,380	2,400	1,171,780
Paris (Charles De Gaulle)	612,850	3,049	615,899
Alicante	597,387	18,397	615,784
Tenerife (Surreina Sofia)	509,336	98,450	607,786
Malaga	489,749	20,617	510,366
Dubai	495,602	630	496,232
Palma De Mallorca	388,065	104,749	492,814
Frankfurt Main	325,921	520	326,441
Faro	321,228	3,587	324,815

Source: Civil Aviation Authority - Not National Statistics

1. For the purpose of preparing this table, Scotland's main international airports are Aberdeen, Edinburgh, Glasgow and Glasgow Prestwick.

Table 8.6 Terminal passenger traffic by origin/destination, 2018

	Other Scottish Airports	Other UK Airports ¹	UK offshore	Eire	Europe	North America	Rest of world	Total
Aberdeen	306,302	1,445,604	381,492	49,903	874,437	-	-	3,057,738
Barra	14,706	-	-	-	-	-	-	14,706
Benbecula	35,404	-	-	-	-	-	-	35,404
Campbeltown	8,472	-	-	-	-	-	-	8,472
Dundee	21	20,566	-	-	-	-	-	20,587
Eday	523	-	-	-	-	-	-	523
Edinburgh	121,318	5,249,246	-	735,374	7,428,417	466,192	290,755	14,291,302
Fair Isle	2,921	-	-	-	-	-	-	2,921
Foula	1,176	-	-	-	-	-	-	1,176
Glasgow	221,892	4,010,938	-	528,197	3,938,800	397,396	553,734	9,650,957
Inverness	50,620	739,682	-	12,881	84,125	-	-	887,308
Islay	33,019	364	-	-	-	-	-	33,383
Kirkwall	180,163	1,097	19	-	410	-	-	181,689
Lerwick (Tingwall)	3,880	1	-	-	-	-	-	3,881
North Ronaldsay	5,953	-	-	-	-	-	-	5,953
Oban	677	-	-	-	-	-	-	677
Papa Stour	30	-	-	-	-	-	-	30
Papa Westray	4,885	-	-	-	-	-	-	4,885
Glasgow Prestwick	420	318	-	-	678,139	-	630	679,507
Sanday	2,994	-	-	-	-	-	-	2,994
Scatsta	94,066	-	81,575	-	-	-	-	175,641
Stornoway	136,665	778	-	-	-	-	-	137,443
Stronsay	3,527	-	-	-	-	-	-	3,527
Sumburgh	227,251	802	24,110	-	1,367	-	-	253,530
Tiree	12,265	489	-	-	-	-	-	12,754
Westray	3,542	-	-	-	-	-	-	3,542
Wick John O'Groats	17,116	-	-	-	-	-	-	17,116
Total	1,489,808	11,469,885	487,196	1,326,355	13,005,695	863,588	845,119	29,487,646

Source: Civil Aviation Authority - Not National Statistics

1. Channel Islands and the Isle of Man were not included in previous editions of this table. Although they are now, they represent less than one percent of travel to other UK airports.

Table 8.7 Terminal air passengers by airport, international/domestic and type of service, 2018

Airport	International/UK Offshore			Domestic ¹			Total
	Scheduled	Charter	Total	Scheduled	Charter	Total	
Aberdeen	819,668	486,093	1,305,761	1,614,144	136,090	1,750,234	3,055,995
Barra	.	.	.	14,706	-	14,706	14,706
Benbecula	.	.	.	35,404	-	35,404	35,404
Campbeltown	.	.	.	8,472	-	8,472	8,472
Dundee	-	562	562	20,478	145	20,623	21,185
Edinburgh	8,676,426	243,058	8,919,484	5,370,506	1,819	5,372,325	14,291,809
Glasgow	4,981,880	434,364	5,416,244	4,234,119	2,153	4,236,272	9,652,516
Glasgow Prestwick	676,652	3,575	680,227	-	731	731	680,958
Inverness	97,090	5,011	102,101	789,720	1,150	790,870	892,971
Islay	.	.	.	32,508	-	32,508	32,508
Kirkwall	410	103	513	168,761	409	169,170	169,683
Lerwick (Tingwall)	.	.	.	3,881	-	3,881	3,881
Scatsta	-	81,575	81,575	-	93,306	93,306	174,881
Stornoway	-	8	8	133,309	58	133,367	133,375
Sumburgh	1,367	24,772	26,139	172,434	47,193	219,627	245,766
Tiree	.	.	.	12,285	-	12,285	12,285
Wick John O'Groats	-	-	-	16,680	76	16,756	16,756
Total	15,253,493	1,279,121	16,532,614	12,627,407	283,130	12,910,537	29,443,151

Source: Civil Aviation Authority - Not National Statistics

1. Domestic traffic is counted both at the airport of arrival and at the airport of departure.

The total of domestic traffic is, therefore, only a measure of airport activity.

Statistics are not collected for some of the smaller airports on Orkney and Shetland and are therefore not included in any overall totals.

Table 8.8 Punctuality of flights at Edinburgh and Glasgow airports

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Edinburgh											
Flights to/from UK origins / destinations											
Matched	72,499	64,086	58,282	58,404	56,926	55,314	54,580	58,822	57,931	58,314	57,117
Unmatched - actual ¹	366	193	268	106	82	83	71	71	20	0	2
Unmatched - planned ²	517	365	1,083	274	257	224	212	285	-	-	-
Percentage of flights late ³											
early to 15 mins late	79	84	79	84	84	85	82	80	75	75	75
16 to 30 mins late	10	8	9	8	8	7	9	10	11	11	10
31 to 60 mins late	7	5	6	5	5	5	5	6	8	8	7
1 hr 1 min to 3 hrs late	4	3	5	3	3	3	4	4	6	5	6
3hrs 1 min to 6 hrs late	0	0	1	0	0	0	0	0	0	0	0
more than 6 hrs late	0	0	0	0	0	0	0	0	0	0	0
Average delay ⁴											
	12	10	13	9	9	9	10	12	15	14	14
All flights (UK and international)											
Matched	107,172	100,408	94,863	99,823	97,645	98,670	96,292	102,038	110,276	116,771	118,725
Unmatched - actual ¹	518	387	492	276	188	150	113	134	36	1	2
Unmatched - planned ²	769	575	2,061	552	312	275	260	394	-	-	-
Percentage of flights late ³											
early to 15 mins late	77	82	77	83	84	84	82	78	73	73	73
16 to 30 mins late	11	9	10	9	8	8	9	11	13	14	11
31 to 60 mins late	7	5	7	5	5	4	5	6	8	9	8
1 hr 1 min to 3 hrs late	4	3	5	3	3	3	3	4	5	5	5
3hr 1 min to 6 hrs late	0	0	1	0	0	0	0	0	0	0	0
more than 6 hrs late	0	0	0	0	0	0	0	0	0	0	0
Average delay ⁴											
	13	11	15	10	9	9	9	12	15	15	15
Glasgow											
Flights to/from UK origins / destinations											
Matched	60,243	51,934	47,933	46,214	47,010	46,137	47,175	50,524	51,293	52,683	49,193
Unmatched - actual ¹	636	198	233	118	88	70	77	132	16	6	14
Unmatched - planned ²	375	274	763	305	240	205	229	247	-	-	-
Percentage of flights late											
early to 15 mins late	79	85	80	85	85	84	83	77	77	77	75
16 to 30 mins late	10	7	8	7	7	7	8	10	10	10	8
31 to 60 mins late	7	4	6	4	4	5	5	7	7	7	7
1 hr 1 min to 3 hrs late	4	3	5	3	3	3	3	5	5	5	6
3hrs 1 min to 6 hrs late	0	0	1	0	0	0	0	1	0	1	1
more than 6 hrs late	0	0	0	0	0	0	0	0	0	0	0
Average delay ⁴											
	12	10	12	9	9	10	10	14	14	14	14
All flights (UK and international)											
Matched	85,274	73,262	68,291	69,507	71,637	71,901	73,396	79,618	83,691	88,246	83,312
Unmatched - actual ¹	814	294	482	176	160	136	152	238	41	6	16
Unmatched - planned ²	526	330	1,175	393	297	252	262	314	-	-	-
Percentage of flights late											
early to 15 mins late	75	82	77	83	83	83	82	76	75	75	75
16 to 30 mins late	11	8	9	8	8	8	9	11	11	12	10
31 to 60 mins late	8	5	7	5	5	5	5	7	8	8	7
1 hr 1 min to 3 hrs late	5	4	6	4	4	3	3	5	5	5	5
3hrs 1 min to 6 hrs late	1	1	1	1	1	1	0	1	0	1	1
more than 6 hrs late	0	0	0	0	0	0	0	0	0	0	0
Average delay ⁴											
	16	12	16	11	11	11	11	14	14	14	14

Source: Civil Aviation Authority - Not National Statistics

1. Air transport movements which took place but for which there was no corresponding planned flight (e.g. diversions from another airport to this airport)

2. Planned flights for which there was no air transport movement (e.g. flights that were cancelled or diverted to another airport).

Due to changes to the collection of planned flights, this data is no longer available.

3. The punctuality figures for Edinburgh for 2001 onwards are not comparable to the figures for 2000 and earlier years.

From January 2001, a different assumption has been used for the taxing time for departures from Edinburgh airport.

4. The average delays for 2000 onwards are not comparable to the figures for 1999 and earlier years

Up to December 1999, an early flight was counted as a "negative delay"; from January 2000, an early flight is counted as "zero delay"

Table 8.9 Aircraft movements, by airport and type of movement, 2018 ¹

Airport	Commercial Movements			Non-commercial Movements								Total	
	Air Transport	Positioning Flights	Local Movements	Total	Test and Training	Other Flights by air transport operators	Aero Club	Private	Official	Military	Business		Total
Aberdeen	80,897	3,539	57	84,493	3,220	2,004	1,387	-	4	77	94	6,786	91,279
Barra	1,287	1	-	1,288	20	-	-	121	-	10	-	151	1,439
Benbecula	3,327	212	4	3,543	10	3	-	56	-	38	-	107	3,650
Campbeltown	1,144	136	-	1,280	156	-	-	160	-	291	-	607	1,887
Dundee	1,410	335	184	1,929	1,056	91	34,199	926	4	1,104	656	38,036	39,965
Edinburgh	124,793	1,655	18	126,466	41	22	-	3,385	14	80	8	3,550	130,016
Glasgow	86,467	1,905	10	88,382	527	3,495	4,277	1	-	106	369	8,775	97,157
Glasgow Prestwick	4,853	377	-	5,230	5,633	-	7,926	2,124	2	3,989	-	19,674	24,904
Inverness	15,877	1,907	507	18,291	1,824	121	7,366	1,382	-	94	612	11,399	29,690
Islay	1,844	139	-	1,983	6	-	-	672	-	90	-	768	2,751
Kirkwall	12,892	913	35	13,840	279	164	-	465	-	10	13	931	14,771
Lerwick (Tingwall)	1,270	184	-	1,454	6	-	-	87	-	-	-	93	1,547
Scatsta	8,061	317	-	8,378	128	5	-	-	-	2	-	135	8,513
Stornoway	8,716	345	220	9,281	728	-	2	319	-	240	-	1,289	10,570
Sumburgh	12,382	1,690	315	14,387	881	1,267	-	69	-	24	-	2,241	16,628
Tiree	1,708	4	-	1,712	-	-	-	143	-	-	-	143	1,855
Wick John O'Groats	1,848	794	17	2,659	471	108	2	723	-	95	-	1,399	4,058
Total	368,776	14,453	1,367	384,596	14,986	7,280	55,159	10,633	24	6,250	1,752	96,084	480,680

Source: Civil Aviation Authority - Not National Statistics

1. Statistics are not collected for some of the smaller airports on Orkney and Shetland and are therefore not included in any overall totals.

Table 8.10 Air transport movements by airport, type of service and operator, 2018 ²

Airport	Scheduled			Charter			Air taxi ¹ movements	Total
	UK Operators	Over seas Operators	Total	UK Operators	Over seas Operators	Total		
Aberdeen	33,834	11,361	45,195	32,491	3,866	36,357	3,122	84,674
Barra	1,389	-	1,389	1	-	1	2	1,392
Benbecula	1,960	-	1,960	-	-	-	1,409	3,369
Campbeltown	1,069	-	1,069	-	-	-	152	1,221
Dundee	1,132	-	1,132	7	76	83	214	1,429
Edinburgh	78,424	44,630	123,054	1,420	952	2,372	753	126,179
Glasgow	62,705	20,664	83,369	2,250	258	2,508	2,449	88,326
Glasgow Prestwick	-	4,712	4,712	20	95	115	42	4,869
Inverness	10,936	861	11,797	29	181	210	3,973	15,980
Islay	1,832	-	1,832	-	-	0	172	2,004
Kirkwall	11,818	-	11,818	18	4	22	1,495	13,335
Lerwick (Tingwall)	955	-	955	-	-	-	315	1,270
Scatsta	-	-	-	8,081	-	8,081	-	8,081
Stornoway	6,888	-	6,888	7	8	15	2,056	8,959
Sumburgh	7,080	-	7,080	3,385	9	3,394	1,153	11,627
Tiree	1,769	-	1,769	-	-	-	136	1,905
Wick John O'Groats	1,524	-	1,524	2	-	2	418	1,944
Total	223,315	82,228	305,543	47,711	5,449	53,160	17,861	376,564

Source: Civil Aviation Authority - Not National Statistics

1. A breakdown of air taxi movements between scheduled and chartered aircraft transport movements is no longer available. They have therefore been shown as a separate category.

2. Statistics are not collected for some of the smaller airports on Orkney and Shetland, which are therefore not included in any overall totals.

Table 8.11 Air transport movements ¹

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Aberdeen	108,453	106,366	99,419	92,287	99,452	104,227	106,755	112,537	106,755	86,735	85,727	84,674
Barra	1,209	1,262	1,199	1,178	1,183	1,319	881	888	881	1,322	1,397	1,392
Benbecula	4,320	4,145	4,292	3,965	3,912	3,958	3,286	3,013	3,286	3,194	3,211	3,369
Campbeltown	1,307	1,216	1,359	1,251	1,133	1,105	1,123	1,150	1,123	1,135	1,173	1,221
Dundee	3,513	3,910	4,159	3,838	3,033	2,872	1,543	1,407	1,543	1,651	1,392	1,429
Edinburgh	120,096	118,899	111,059	104,288	108,708	106,958	106,748	103,388	106,748	117,293	123,628	126,179
Glasgow	97,277	90,977	77,874	71,598	72,377	74,615	75,585	77,447	75,585	90,734	91,155	88,326
Glasgow Prestwick	20,454	20,427	15,496	13,135	10,017	8,166	8,623	6,659	8,623	4,698	5,076	4,869
Inverness	19,352	17,936	15,791	13,254	15,097	14,814	14,425	13,886	14,425	15,258	16,415	15,980
Islay	1,731	1,869	1,677	1,809	2,004	1,817	1,739	1,730	1,739	1,774	2,067	2,004
Kirkwall	14,008	14,121	13,849	12,945	12,599	12,400	12,951	12,935	12,951	12,927	13,488	13,335
Lerwick (Tingwall)	1,913	1,863	2,011	1,652	1,817	1,783	1,748	1,583	1,748	1,802	1,389	1,270
Scatsta	11,333	10,743	12,704	12,731	13,199	13,915	13,338	12,503	13,338	7,468	7,780	8,081
Stornoway	9,741	10,028	9,484	8,842	9,190	9,367	8,644	8,358	8,644	8,426	9,033	8,959
Sumburgh	9,861	9,812	8,435	8,237	9,156	10,963	13,606	14,677	13,606	17,534	16,881	11,627
Tiree	755	937	1,109	1,023	1,019	1,121	1,111	1,138	1,111	1,854	1,925	1,905
Unst	-	-	-	-	-	-	-	-	-	-	-	-
Wick John O'Groats	2,860	2,571	2,776	2,394	2,416	2,660	4,276	2,885	4,276	2,147	2,119	1,944
Total	428,183	417,082	382,693	354,427	366,312	372,060	376,382	376,184	376,382	375,952	383,856	376,564

Source: Civil Aviation Authority - Not National Statistics

1. Statistics are not collected for some of the smaller airports on Orkney and Shetland and are therefore not included in any overall totals.

Table 8.12 Total aircraft movements, by airport ¹

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Aberdeen	121,927	119,831	109,876	102,396	108,862	115,013	118,219	124,282	118,219	96,156	97,007	91,279
Barra	1,296	1,310	1,356	1,252	1,258	1,403	966	988	966	1,345	1,412	1,439
Benbecula	4,810	4,660	4,779	4,402	4,366	4,478	3,708	3,504	3,708	3,648	3,420	3,650
Campbeltown	3,674	1,921	2,418	2,334	1,993	1,527	1,596	1,628	1,596	1,452	1,410	1,887
Dundee	37,292	36,297	39,274	37,169	36,815	40,926	40,427	35,730	40,427	36,730	38,096	39,965
Edinburgh	128,172	125,550	115,969	108,997	113,357	110,288	111,736	109,545	111,736	122,220	128,675	130,016
Glasgow	108,305	100,087	85,281	77,755	78,111	80,472	79,520	84,000	79,520	98,127	102,766	97,157
Glasgow Prestwick	47,910	42,708	34,230	33,087	28,546	25,670	24,305	25,643	24,305	25,714	24,897	24,904
Inverness	39,139	40,538	30,290	28,155	30,755	31,764	28,947	28,495	28,947	30,450	31,002	29,690
Islay	2,650	2,625	2,603	2,775	3,003	2,969	2,637	2,610	2,637	2,540	2,637	2,751
Kirkwall	15,574	15,982	15,590	14,535	14,131	13,980	14,403	14,420	14,403	14,539	14,754	14,771
Lerwick (Tingwall)	2,050	2,085	2,157	1,859	1,926	1,924	2,084	2,169	2,084	2,426	1,795	1,547
Scatsta	12,961	12,951	14,364	13,841	14,475	15,587	14,668	13,778	14,668	7,894	8,224	8,513
Stornoway	12,716	13,072	11,627	10,952	11,255	11,564	11,049	10,909	11,049	10,600	10,924	10,570
Sumburgh	13,984	14,758	12,159	11,118	12,228	14,045	16,771	18,171	16,771	21,129	22,347	16,628
Tiree	868	1,071	1,316	1,210	1,111	1,224	1,247	1,295	1,247	1,937	1,903	1,855
Unst	-	-	-	-	-	-	-	-	-	-	-	-
Wick John O'Groats	6,327	7,221	6,231	4,754	4,734	5,474	7,787	5,711	7,787	4,427	3,827	4,058
Total	559,655	542,667	489,520	456,591	466,926	478,308	480,070	482,878	480,070	481,334	495,096	480,680

Source: Civil Aviation Authority - Not National Statistics

1. Statistics are not collected for some of the smaller airports on Orkney and Shetland, which are therefore not included in any overall totals.

Table 8.13 Freight carried by airport¹

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
											<i>tonnes</i>
Aberdeen	4,006	3,822	4,211	5,311	6,166	7,102	6,278	6,545	5,731	5,870	5,706
Barra ³	34	34	29	29	27	26	21	19	15	15	14
Benbecula ³	587	564	531	466	475	457	310	313	339	346	366
Campbeltown ³	1	1	1	1	-	1	-	-	-	-	-
Dundee	-	-	-	-	-	-	-	-	-	-	-
Edinburgh ²	12,418	23,791	20,357	19,332	19,115	18,624	19,369	19,322	20,369	20,659	20,316
Glasgow ²	3,546	2,334	2,914	2,430	9,497	11,837	15,411	13,193	12,952	15,935	15,466
Glasgow Prestwick	22,966	13,385	12,163	11,846	10,314	9,526	12,540	11,242	10,822	11,393	13,003
Inverness ³	2,104	2,443	2,800	1,833	2,601	2,524	2,507	2,507	2,584	2,536	2,827
Islay ³	335	340	310	287	284	273	276	288	303	308	347
Kirkwall ³	730	646	777	132	97	103	107	94	97	246	1,054
Lerwick (Tingwall)	-	-	-	-	-	-	-	-	-	-	-
Scatsta	723	752	765	808	873	849	788	702	456	490	449
Stornoway ³	1,610	1,641	1,630	1,659	1,704	1,752	1,200	1,173	1,153	1,271	1,330
Sumburgh ³	1,109	1,075	990	979	990	1,095	1,018	998	1,005	1,150	1,381
Tiree ³	56	56	52	49	57	55	52	44	53	44	50
Unst	-	-	-	-	-	-	-	-	-	-	-
Wick John O'Groats ³	3	2	2	1	-	1	1	1	1	-	-
Total	50,228	50,886	47,532	45,162	52,200	54,225	59,878	56,441	55,880	60,263	62,308

Source: Civil Aviation Authority - Not National Statistics

1. Statistics are not collected for some of the smaller airports on Orkney and Shetland, which are therefore not included in any overall totals.
2. The change in the figures for Glasgow and Edinburgh in 1998 was due to a company switching its parcel hub from Glasgow to Edinburgh in 1998.
3. Data for these airports previously came from CAA which does not hold detailed information (passengers/freight carried) etc for charter services operated by aircraft below 15 tonnes Maximum Take Off Mass. However, more detailed information including smaller aircraft has now been obtained from Highland & Islands airports Ltd and the figures have been revised back to 2000.

Table 8.14 Characteristics of terminal passengers, 2018 ¹

Airport	International passengers				Domestic passengers				All services				All
	Business		Leisure		Business		Leisure		Busin- ess	Leisure	UK resid.	Foreign resid.	
	UK resid.	Non UK resid.	UK resid.	Non UK resid.	UK resid.	Non UK resid.	UK resid.	Non UK resid.					
	<i>row percentages</i>												
Aberdeen	6.9	6.2	16.5	4.9	30.6	3.6	27.8	3.4	47.3	52.6	81.8	18.1	100
Edinburgh	3.3	2.8	33.3	22.8	14.6	0.8	18.1	4.4	21.5	78.6	69.3	30.8	100
Glasgow	2.2	2.0	39.3	12.3	17.4	0.4	22.7	3.5	22.0	77.8	81.6	18.2	100
Inverness	1.8	1.2	3.2	5.0	25.7	0.9	54.9	7.4	29.6	70.5	85.6	14.5	100

Source: Civil Aviation Authority - Not National Statistics

1. The CAA survey collected statistics only for the airports shown in the table.

Table 8.15 Mode of surface transport used to arrive at the airport ¹

Airport ²	Bus and rail			Car and taxi				Other modes	Total all modes*	
	Bus / coach	Rail	Total bus + rail	Private car	Hire car	Taxi / minicab	Total car + taxi			
	<i>row percentages</i>									
Aberdeen	1975	13	0	13	50	7	28	85	3	101
	1982	9	0	9	50	8	30	88	3	100
	1990	6	0	6	49	8	36	93	1	100
	1996	5	0	5	55	7	32	94	1	100
	2001	4.7	0.0	4.7	49.2	5.2	38.8	93.2	2.1	100
	2005	6.2	0.0	6.2	49.5	6.1	36.9	92.5	1.3	100
	2009 ³	5.7	3.3	9.0	48.1	3.9	36.6	88.6	2.4	100
	2013 ³	9.0	3.5	12.5	43.6	4.0	38.4	85.9	1.6	100
	2018	11.9	0.0	11.9	44.8	4.2	12.5	61.4	26.6	100
Edinburgh	1970	24	0	24	54	6	13	73	3	100
	1975	22	0	22	55	8	14	77	1	100
	1982	9	0	9	61	10	19	90	2	101
	1990	7	0	7	56	10	25	91	1	99
	1996	9	0	9	53	10	28	91	0	100
	2001	18.4	0.0	18.4	46.8	6.3	28.1	81.2	0.4	100
	2005	19.3	0.0	19.3	48.6	5.8	25.7	80.1	0.6	100
	2009 ³	26.9	2.6	29.5	43.2	5.3	21.3	69.9	0.6	100
	2013 ³	9.2	3.8	13.0	38.5	1.0	21.8	61.3	25.7	100
	2018	7.2	5.1	12.3	30.2	3.7	18.6	52.5	35.2	100
Glasgow	1970	24	0	24	54	4	16	74	2	100
	1975	16	0	16	60	4	19	83	1	100
	1982	8	0	8	70	4	17	91	1	100
	1990	8	0	8	62	7	22	91	2	101
	1996	7	0	7	61	7	23	91	1	99
	2001	8.3	0.0	8.3	60.1	4.9	26.0	91.0	0.7	100
	2005	10.7	0.0	10.7	57.6	4.4	26.4	88.4	0.9	100
	2009 ³	11.6	3.1	14.7	51.6	4.0	27.0	82.5	2.8	100
	2013 ³	14.1	4.2	18.3	50.4	0.7	25.7	76.7	5.0	100
	2018	11.4	2.4	13.8	49.0	2.9	29.3	81.2	4.9	100
Glas. Prestwick	2005	3.6	20.8	24.4	57.2	12.5	5.2	74.9	0.7	100
	2009 ³	11.0	26.7	37.7	44.8	5.5	9.8	60.2	2.1	100
Inverness	1990	7	0	7	62	15	15	92	1	100
	1996	6	0	6	57	17	17	91	3	100
	2001	4.0	0.0	4.0	56.3	17.1	20.8	94.2	1.8	100
	2005	4.9	0.0	4.9	60.5	17.9	14.4	92.8	2.3	100
	2009 ³	9.1	2.2	11.4	55.6	18.3	12.5	86.4	2.3	100
	2013 ³	17.1	3.3	20.4	49.6	8.5	11.8	69.9	9.7	100
	2018	10.7	3.0	13.7	46.8	25.4	4.9	77.1	9.2	100

Source: Civil Aviation Authority - Not National Statistics

1. The CAA surveys collected statistics only for the airports shown in the table. These results are based on a departure survey only.

The CAA's assumption, for weighting purposes, is that arriving and departing passengers share the same modal characteristics

The next survey which included Scottish airports took place in 2018 and will be published in the 2019 edition of STS.

2. Airports are shown only for the years for which figures are given in the CAA survey reports for 1996 (which also gives earlier years' results), 2001, 2005 and 2009.

3. A small adjustment has been made to the percentages due to an error in the calculations used to produce the figures.

*. The figures for 1996 and earlier years may appear not to total 100% because they were rounded independently and then given only as whole percentages. The mode of transport includes cases where more than one form of transport is used.

Table 8.16 Origins/destinations of terminating passengers: 2018 ¹

	Aberdeen	Edinburgh	Glasgow	Inverness	Total
	<i>thousands</i>				
Borders	1	292	12	-	304
Central	4	748	368	-	1,120
Dumfries & Galloway	0	36	90	-	127
Fife	16	1,126	104	-	1,246
Grampian	2,161	223	137	165	2,686
Highlands & Islands	89	165	147	703	1,105
Lothian	13	9,116	274	-	9,403
Strathclyde	31	1,102	7,620	1	8,753
Tayside	73	1,074	296	0	1,443
Total all Scottish areas	2,388	13,883	9,048	870	26,189
England & Wales	43	167	63	0	274
All passengers ²	2,431	14,051	9,110	870	26,462

Source: Civil Aviation Authority - Not National Statistics

1. The CAA survey collected statistics only for the airports shown in the table.

2. Terminating passengers are those who arrive at or depart from an airport by surface means of transport. As explained in the Notes and Definitions, their numbers are not the same as the numbers of terminal passengers: the latter also include transfer passengers (people who change aircraft at an airport).

Chapter 9: Water Transport

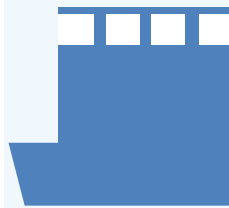
- Foreign and domestic freight traffic by type of freight and country of origin and destination
- Ferry passengers and vehicles
- HM Coastguard search and rescue operations.

65 million

tonnes of freight handled by ports
in 2018 in Scotland

One third

of Scotland's **total freight tonnage**,
including exports, was by water



8.5m

passengers

3.0m

vehicles

carried on **ferry routes**
within Scotland in 2018



1.8m

passengers and 0.4m vehicles carried
between Scotland and Northern Ireland in 2018

8,000

vehicles carried between Scotland and
Europe in 2018



2%

decrease in vehicle
traffic between Scotland
and Northern Ireland
between 2017 and 2018

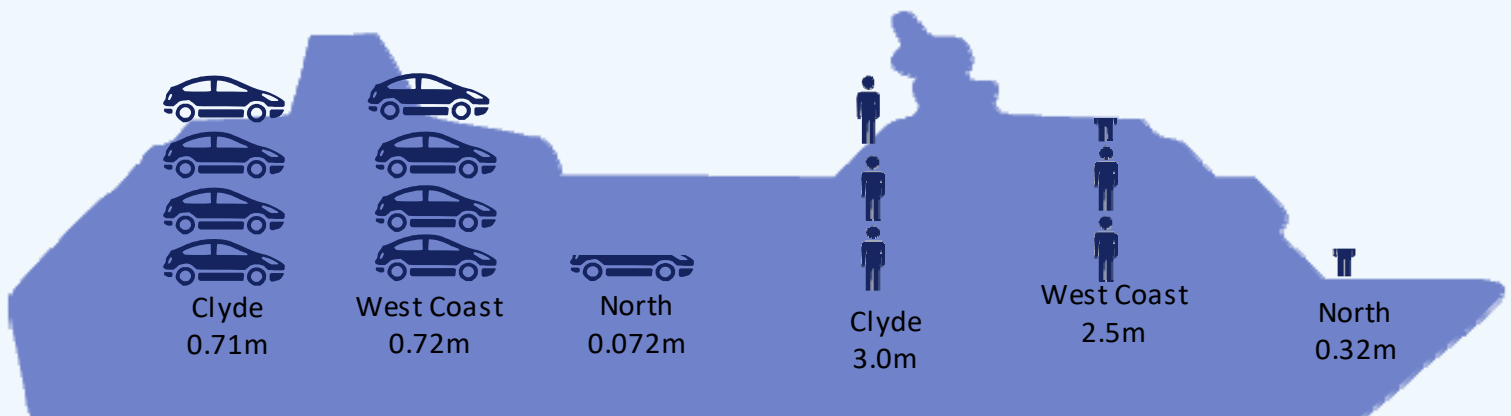


All passenger traffic to Northern
Ireland was from Cairnryan

Scottish Government Subsidised Ferry Traffic 2018

Vehicle traffic
Total = 1.50m

Passenger traffic
Total = 5.86m



See table 9.15 for more information

2,627

incidents responded to by
the Maritime and Coastguard agency
in 2018



For web publication and
further information, visit
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WATER TRANSPORT

1. Introduction

1.1 This chapter provides information about foreign and domestic freight traffic at Scottish ports and inland waterways by type of freight and country of origin and destination. It also includes statistics on passengers and vehicles carried on ferry routes operating in Scotland and routes between Scotland and Northern Ireland and Europe as well as some statistics on HM Coastguard search and rescue operations.

1.2 Port traffic statistics methodology changed in 2000, to comply with the requirements of a new EC Maritime Statistics Directive. This produced large changes in the figures for one-port and coastwise traffic, and in the split between domestic and foreign traffic, between 1999 and 2000. Details of the method and notes on the effect of the change are given in the Notes and Definitions section, page 225.

1.3 From 2015 DfT no longer publish a Scottish data for coastwise, one port and inland waterway traffic and we are unable to update tables 9.1, 9.9 and 9.11 as fully as we previously did.

Key Points

- There were 65 million tonnes of freight handled by ports in Scotland in 2018.
- There was a total of 8.5 million passengers and 3 million vehicles carried on ferry routes within Scotland in 2018.
- There were 1.8 million passengers and 0.4 million vehicles carried between Scotland and Northern Ireland and 8,000 vehicles carried between Scotland and Europe in 2018.

2. Main Points

Freight

Tonnage

2.1 Exports through major (see section 9.16.3 page 278) Scottish ports rose from 61 million tonnes in 1997 to 68 million tonnes in 2002 before steadily falling to 33 million tonnes in 2018 (there has been a 21% fall in the last ten years) - eight ports were counted as major ports in 1997 and 1998, there were nine in 1999 and 11 from 2000 onwards. Imports totalled 11.5 million tonnes, considerably less than the volume of exports. (*Table 9.2*)

2.2 Waterborne freight (both incoming and outgoing) passing through the ports decreased by 2.8% in 2018 to 65 million tonnes. This was 32% less than in 2008, continuing a steady fall. In 2018, the eleven major ports accounted for 95% of the total traffic through Scottish ports. Exports accounted for 51% of the total freight through Scottish ports and domestic traffic accounted for 26%. Imports, and incoming domestic freight were much lower, together accounting for 27% of the total freight through Scottish ports. (*Table 9.2*)

Ports and Destinations

2.3 Forth (27 million tonnes), Clyde (9 million tonnes) and Glensanda (6 million tonnes) accounted for the highest freight traffic in 2018. Forth traffic is 3.5% lower than 2017, and is 32% below 2008. Clyde's freight traffic has fluctuated between 2008 and 2018, falling overall from 14 million tonnes to 9 million tonnes in 2018. Again, as these figures are for the total volume of traffic, they are unaffected by the change in the method of compiling the statistics. (*Table 9.3*)

2.4 Bulk fuel accounted for 40 million tonnes (65%) of the total traffic through major Scottish ports in 2018. (*Table 9.4*)

2.5 Top exporting ports for foreign traffic were: Forth (20 million tonnes); Sullom Voe (4.6 million tonnes) and Glensanda (3.7 million tonnes). Clyde (6.1 million tonnes) and Forth (4.0 million tonnes) together accounted for almost all the imports from foreign traffic. Glensanda (2.3 million tonnes), Forth (1.8 million tonnes), and Aberdeen (1.8 million tonnes) had most outward domestic traffic; Aberdeen (1.5 million tonnes) was the main port for inwards domestic traffic. (*Table 9.6*)

2.6 The main types of traffic through the major ports in 2018 were crude oil (28 million tonnes), oil products (10 million tonnes) and other dry bulk (8 million tonnes). (*Table 9.7*)

2.7 In 2018 most exports were destined for Netherlands (10.2 million tonnes), Asia (10.1 million tonnes), Germany (4.1 million tonnes), Belgium (2.7 million tonnes) and Spain (1.2 million tonnes) while most imports arrived from Nigeria (3.7 million tonnes) and Netherlands (1.5 million tonnes). (*Table 9.8*)

Passenger Services**Routes to Northern Ireland and Europe**

2.8 In 2018, 1.8 million passengers were carried on ferry services between Scotland and Northern Ireland. Almost half a million vehicles were carried between Scotland and Northern Ireland in 2018, a 2 per cent decrease on 2017. Until its closure in 2018 the Rosyth to Zeebrugge freight route was the only ferry route between Scotland and Europe. Therefore, it only carried 8,000 vehicles until April 2018. (*Tables 9.13 (a) & (b)*)

Routes within Scotland

2.9 This section covers all routes within Scotland for which data is available, for example data is not available for Pentland Ferries. These statistics include routes within Scotland that are subsidised by Scottish Government, local authority ferry services and privately run services. More detail is available in the Notes and Definitions section, page 225.

2.10 There were 8.5 million passengers carried on routes within Scotland in 2018, a rise of 0.3 per cent compared to 2017 and 0.7 per cent above the recent peak in numbers in 2007. Caledonian MacBrayne carried 5.3 million of these passengers (62%) and Western Ferries carried a further 16 per cent on the Gourock-Dunoon route. (*Table 9.12*)

2.11 There were 3 million vehicles carried on routes within Scotland in 2018, a 0.5 per cent fall on 2017. Of these vehicles, 50 per cent were carried by Caledonian MacBrayne and a further 22 per cent by Western Ferries on the Gourock-Dunoon route. (*Table 9.12*)

Operators on subsidised routes within Scotland

2.12 Caledonian MacBrayne ferries carried 5.3 million passengers in 2018, 16,000 (0.3%) more than in 2017. There were 1.4 million cars carried, the same as 2017, and 91,000 commercial vehicles and buses, also the same as 2017. (*Table 9.14*)

2.13 Serco Northlink Ferries carried 322,000 passengers in 2018, a 4.5 per cent increase compared to 2017. There were 71,000 cars carried on these routes in 2018, six per cent more than 2017. (*Table 9.14*)

Local authority ferry services

2.14 Shetland Islands Council services carried 764,000 passengers in 2018, 2 per cent less than 2017. There were 375,000 vehicles carried, a fall of 9 per cent on 2017.

2.15 Orkney Ferries services carried 339,000 passengers in 2018, two per cent more than in 2017. There were 94,000 vehicles carried on these routes, five per cent more than the previous year. (*Table 9.14*)

2.16 Ferries operated by Argyll and Bute Council carried 139,000 passengers in 2018. Although Highland Council only records passenger numbers for the Camusnagaul - Fort William service operated by Highland Ferries on behalf of Highland Council they have estimated that 590,000 passengers have been carried on the Corran Ferry. (*Table 9.14 and 9.16*)

Ferry routes within and to/from Scotland

2.17 The busiest ferry route within Scotland in terms of passengers and vehicles carried is the service between Gourock and Dunoon, operated by Western Ferries, which carried 1,372,700 passengers in 2018. There were 634,300 cars carried on this route and 36,300 commercial vehicles and buses in 2018. (*Table 9.16 and Figure 9.4 and 9.5*)

2.18 The second busiest Scottish ferry route over recent years in terms of passenger numbers has been the Cairnryan / Belfast route. This route carried 1.2 million passengers in 2018. (*Table 9.13 and Figure 9.4*)

2.19 The second busiest route in terms of cars carried is the Corran Ferry from Ardgour to Nether Lochaber operated by Highland Council. This route carried 261 thousand vehicles in 2018. (*Table 9.16 and Figure 9.5*)

2.20 The busiest subsidised ferry routes are operated by Caledonian MacBrayne. The busiest route in terms of passengers in 2018 was Ardrossan - Brodick, with 840,100 passengers. Ardrossan - Brodick was also the busiest subsidised route for car traffic in 2018 with 199,000 car crossings, a decrease of 3 per cent over the previous year. (*Table 9.15*)

2.21 The Road Equivalent Tariff (RET) scheme involves setting ferry fares on the basis of the cost of travelling an equivalent distance by road, more detail on RET can be found in the Notes and Definitions section, page 225. The West Coast routes where Road Equivalent Tariff (RET) has been rolled out carried 2.5 million passengers in 2018 and 722,000 cars. (*Table 9.15*)

Ferry Punctuality

2.22 The level of reliability (the number of timetabled sailings actually operated, see table footnote for more detail) for Caledonian MacBrayne lifeline ferry services was 99.5% in 2018-19 and the level of punctuality (against the published timetable) was 99.6%. For Northlink the level of lifeline ferry services that were both punctual and reliable was 100% for both Aberdeen routes and the Pentland Firth in 2018-19. (*Table 9.17*)

Coastguard callouts

2.23 Overall there were 2,627 incidents in 2018, 93 less than the previous year. (*Table 9.18*)

Table 9.1 Waterborne freight lifted, discharged and *moved*, by type of traffic

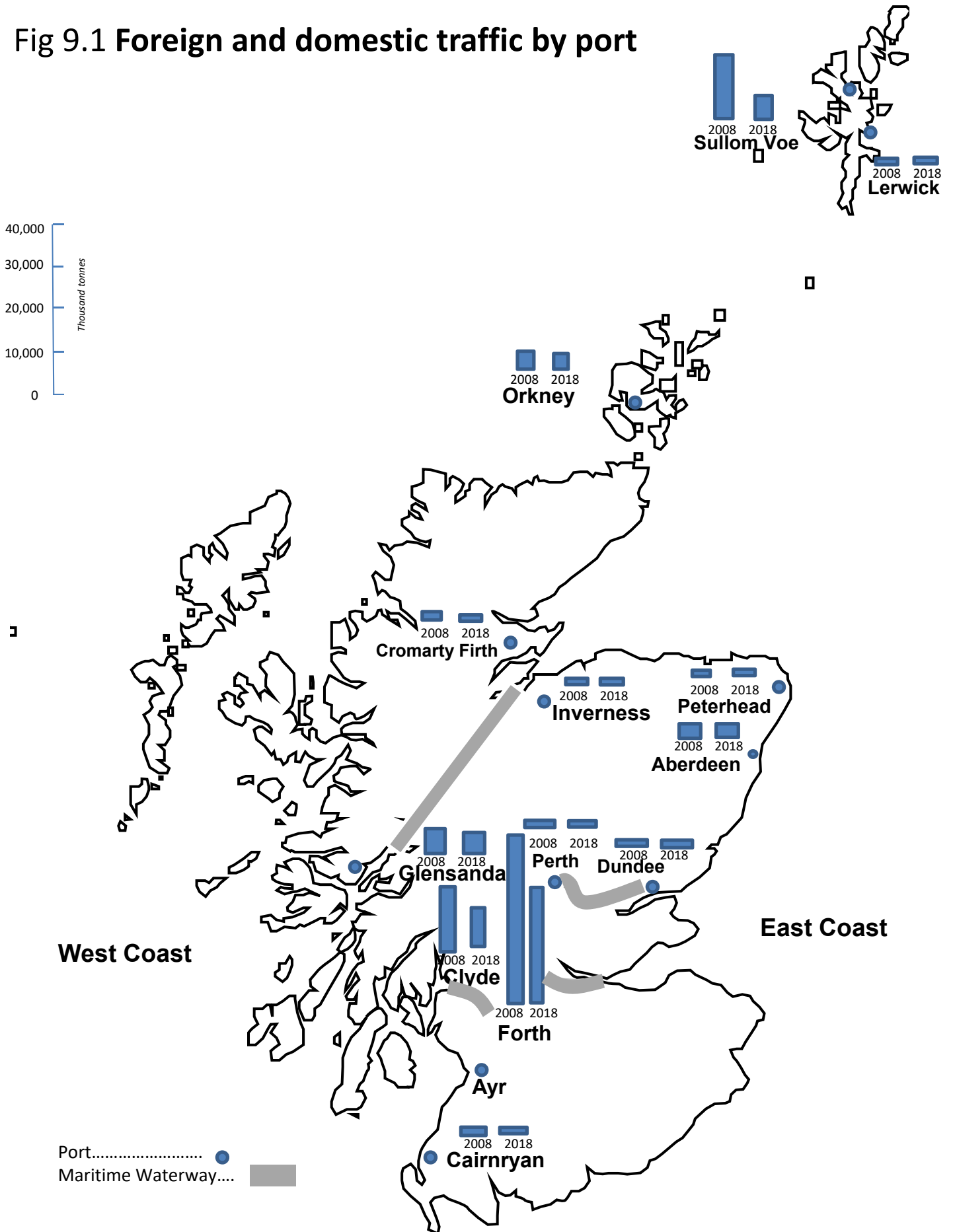
(a) **Waterborne freight lifted in Scotland, and moved, by type of traffic**

	2008	2009	2010	2011	2012	2013	2014	2015 ⁸	2016	2017	2018
Freight lifted (weight)	<i>million tonnes</i>										
Coastwise traffic ¹											
Liquid bulks	15.79	13.59	11.49	11.12	7.22	5.93	5.41	..	..	..	..
Coal	1.40	1.02	1.23	0.67	0.76	0.67	0.78	..	..	..	..
Other	6.09	5.23	5.23	4.54	4.56	4.79	5.62	..	..	..	..
Total	23.28	19.84	17.95	16.33	12.54	11.39	11.81	14.20	..	..	..
One Port traffic ²											
To rigs	1.75	3.59	1.88	2.42	2.57	2.10	2.19	..	..	..	..
Sea dumped	-	-	-	-	-	-	-	..	..	..	..
Total	1.75	3.59	1.88	2.42	2.57	2.10	2.19	..	..	..	..
Inland waterway traffic											
Internal	-	-	-	-	-	-	0.05	..	..	..	..
Coastwise	3.99	3.43	3.04	2.74	2.18	1.93	1.64	..	..	..	..
One Port	0.02	0.04	0.05	0.01	0	0.02	0.01	..	..	..	..
Foreign	8.18	6.63	7.80	7.95	8.61	8.74	7.71	..	..	..	..
Total	12.19	10.10	10.89	10.70	10.79	10.69	9.41	10.27	..	..	..
All above traffic ³	33.21	30.06	27.63	26.70	23.72	22.23	21.76	24.47	..	..	..
Port exports ⁴	42.42	38.32	39.89	33.36	32.06	31.58	30.84	30.26	32.97	30.89	33.33
All freight lifted ⁵	67.44	61.75	59.72	52.11	47.17	45.07	44.89	44.45	..	..	..
Freight moved (weight x distance)	<i>million tonne-kilometres</i>										
Coastwise traffic ¹											
Liquid bulks	14,456	12,360	10,777	10,628	6,723	4,888	4,783	..	..	..	..
Coal	343	261	302	303	316	277	312	..	..	..	..
Other	3,090	2,700	2,478	2,080	2,012	2,287	2,936	..	..	..	..
Total	17,890	15,321	13,557	13,011	9,051	7,452	8,031	11,414	..	..	..
One Port traffic ²											
To rigs	1,746	2,287	1,885	2,190	2,571	2,100	2,182	..	..	..	..
Sea dumped	-	-	-	-	-	-	-	..	..	..	..
Total	1,746	2,287	1,885	2,190	2,571	2,100	2,182	..	..	..	..
Inland waterway traffic											
Internal	-	-	-	-	-	-	-	-	-	-	-
Coastwise	101	83	80	80	60	53	22	..	..	..	..
One Port	-	-	-	-	-	-	-	..	..	..	..
Foreign	210	160	200	190	209	209	137	..	..	..	..
Total	312	244	280	270	269	262	234	236	..	..	..
All above traffic ⁶	19,948	17,852	15,722	15,471	11,891	9,814	10,447	11,649	..	..	..
Port exports ⁷	..	..	..	..	..	..	..	..	..	..	..
All freight ⁷	..	..	..	..	..	..	..	..	..	..	..

Source: DfT Maritime Statistics

1. Covers all coastwise cargo *lifted* in Scotland, regardless of its destination.
2. Covers cargoes lifted in Scotland for offshore installations and for dumping at sea.
3. Total of Coastwise traffic, One Port traffic and the Internal and Foreign components of Inland Waterway traffic. Excludes Coastwise and One Port components of Inland Waterway traffic to avoid double counting.
4. Major ports only. There were seven major ports in 1996; eight in 1997 and 1998; nine in 1999; and 11 from 2000 onwards.
5. Coastwise traffic, One Port traffic, the Internal component of Inland Waterway traffic, and Port exports. Excludes Coastwise and One Port components of Inland Waterway traffic to avoid double counting.
6. This is the total of Coastwise traffic, One Port traffic and Inland Waterway traffic. No double counting exists as the Coastwise component of Inland Waterway traffic relates to the distance travelled on inland waterways, and Coastwise traffic relates to the distance travelled at sea.
7. Figures for tonne-kilometres are not available for exports (and, in any case, would not be relevant to Scottish transport statistics).
8. DfT have now discontinued the publication of a number of tables in their publication. We are no longer able to update most of this table.

Fig 9.1 Foreign and domestic traffic by port



Map author: Natasha Sinagina
<http://www.supercoloring.com/silhouettes/scotland-map>

Table 9.1 (continued) Waterborne freight lifted, discharged and moved, by type of traffic

(b) **Waterborne freight discharged in Scotland, and moved, by type of traffic**

Note: there is **no** information on inland waterway traffic discharged in Scotland

	2008	2009	2010	2011	2012	2013	2014	2015 ⁶	2016	2017	2018
Freight discharged (weight)	<i>million tonnes</i>										
Coastwise traffic ¹											
Liquid bulks	2.79	2.52	3.01	2.06	2.14	1.91	1.74	..	..	..	..
Coal	0.02	-	0.01	0.08	0.01	0.02	-	..	..	..	..
Other	4.20	3.77	4.25	3.83	4.28	3.98	4.06	..	..	..	..
Total	7.01	6.29	7.26	5.97	6.43	5.91	5.79	4.62	..	..	..
One Port traffic ²											
From rigs	4.06	2.75	3.12	2.86	3.89	2.23	2.07	..	..	..	..
Sea dredged	0.02	0.01	-	-	-	-	-	..	..	..	..
Total	4.07	2.76	3.12	2.86	3.89	2.23	2.07	..	..	..	..
Inland waterway traffic ³	..	..	..	..	..	..	..	..	..	..	..
Port imports ⁴	16.11	13.53	13.17	14.22	16.25	16.50	16.55	13.48	9.49	10.65	11.46
Freight moved (weight x distance)	<i>million tonne-kilometres</i>										
Coastwise traffic ¹											
Liquid bulks	1,444	1,445	2,070	1,459	1,529	1,253	1,126	..	..	..	..
Coal	12	-	12	61	9	12	-	..	..	..	..
Other	1,031	953	1,056	958	1,092	986	1,017	..	..	..	..
Total	2,487	2,398	3,138	2,478	2,626	2,250	2,143	1,846	..	..	..
One Port traffic ²											
From rigs	4,067	2,762	3,146	2,885	3,898	2,241	2,091	..	..	..	..
Sea dredged	-	-	-	-	-	-	-	..	..	..	..
Total	4,067	2,762	3,146	2,885	3,898	2,241	2,091	..	..	..	..
Inland waterway traffic ³	..	..	..	..	..	..	..	..	..	..	..
Port imports ⁵	..	..	..	..	..	..	..	..	..	..	..

Source: DfT Maritime Statistics

- Covers all coastwise cargo discharged in Scotland, whether it was loaded in Scotland or elsewhere in the UK.
- One port traffic covers cargoes from offshore installations and sea dredged aggregates unloaded in Scotland; figures from 2012 subject to revision.
- Information about Inland Waterway traffic discharged in Scotland is not available from the statistics compiled by DfT.
- These figures relate to major ports only (please see the notes on the Sources of the statistics).
There were seven major ports in 1996; eight in 1997 and 1998; nine in 1999; and eleven in 2000 onwards
- Figures for tonne-kilometres are not available for imports (and, in any case, would not be relevant to Scottish transport statistics).
- DfT have now discontinued the publication of a number of tables in their publication. We are no longer able to update most of this table.

Table 9.2 Foreign and domestic freight traffic at (major) Scottish ports¹

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	<i>thousand tonnes</i>										
Foreign											
Imports	16,106	13,532	13,169	14,216	16,254	16,501	16,554	13,481	9,486	10,649	11,462
Exports	42,416	38,321	39,891	33,358	32,060	31,583	30,842	30,259	32,974	30,886	33,330
Total	58,521	51,853	53,060	47,573	48,313	48,084	47,396	43,740	42,458	41,538	44,792
Domestic											
Inwards	9,611	7,670	8,722	7,999	9,447	7,160	7,053	6,281	6,643	6,343	6,268
Outwards	23,975	22,558	18,745	18,378	15,072	12,673	13,167	16,531	14,308	15,467	10,909
Total	33,586	30,228	27,468	26,379	24,519	19,833	20,219	22,813	20,950	21,811	17,178
Total - major ports only	92,108	82,081	80,525	73,952	72,832	67,917	67,615	66,552	63,409	63,952	61,969
Total - all ports	96,346	85,547	84,817	77,414	76,139	71,639	71,381	69,968	66,692	66,985	65,083

Source: DfT Maritime Statistics

- The Foreign and Domestic figures refer to major ports only.
There were seven major ports in 1996, eight major ports in 1997 and 1998, nine in 1999 and 11 in 2000 onwards so the figures for different years are not directly comparable.

Table 9.3 Foreign and domestic traffic by port: inwards and outwards

WATER TRANSPORT

Port	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	<i>thousand tonnes</i>										
Stranraer ³											
Inwards	634	646	553	543	-	-	-	-	-	-	-
Outwards	556	531	465	442	-	-	-	-	-	-	-
Total traffic	1,190	1,177	1,017	986	-	-	-	-	-	-	-
Loch Ryan ^{4,5}											
Inwards	-	-	-	-	943	898	1,022	1,076	1,166	1,155	1,263
Outwards	-	-	-	-	872	885	1,016	1,087	1,190	1,233	1,283
Total traffic	-	-	-	-	1,815	1,783	2,038	2,163	2,356	2,388	2,546
Cairnryan											
Inwards	1,294	1,123	1,150	1,340	1,246	1,103	1,096	1,179	1,290	1,399	1,323
Outwards	1,633	1,448	1,484	1,592	1,364	1,261	1,272	1,370	1,450	1,448	1,534
Total traffic	2,928	2,572	2,634	2,932	2,610	2,365	2,368	2,548	2,740	2,848	2,857
Ayr											
Inwards	182	182	276	212	205	347	284	217	256	209	215
Outwards	375	153	282	190	99	123	71	63	50	31	55
Total traffic	557	335	558	402	304	470	355	280	306	240	270
Clyde											
Inwards	10,885	9,474	8,982	9,981	12,026	12,148	13,221	9,678	6,273	6,500	6,825
Outwards	3,453	3,078	3,301	3,450	3,394	2,635	2,980	2,806	2,469	2,366	2,262
Total traffic	14,338	12,552	12,283	13,431	15,421	14,783	16,201	12,484	8,742	8,865	9,087
Glensanda											
Inwards	-	-	-	-	-	-	-	-	-	-	-
Outwards	6,336	5,591	5,846	6,060	5,541	5,746	6,347	5,597	5,487	6,138	5,943
Total traffic	6,336	5,591	5,846	6,060	5,541	5,746	6,347	5,597	5,487	6,138	5,943
Other West Coast ¹											
Inwards	489	368	649	347	337	284	337	271	303	320	307
Outwards	538	530	651	362	342	369	466	386	243	243	247
Total traffic	1,028	896	1,300	709	680	653	803	656	546	563	554
Orkneys											
Inwards	776	169	184	186	200	180	182	195	204	210	210
Outwards	4,014	3,073	3,059	2,158	1,529	874	969	3,750	4,411	4,643	3,260
Total traffic	4,789	3,241	3,244	2,344	1,729	1,054	1,151	3,945	4,615	4,852	3,470
Lerwick											
Inwards	372	309	323	344	407	495	437	410	359	325	276
Outwards	287	250	245	241	263	328	401	336	269	279	237
Total traffic	658	560	568	585	670	824	838	746	629	604	513
Sullom Voe											
Inwards	2,379	840	1,021	748	2,196	201	1	6	-	-	-
Outwards	12,160	10,377	10,250	9,405	9,202	6,192	7,183	6,114	6,183	5,179	5,329
Total traffic	14,539	11,217	11,270	10,153	11,398	6,394	7,185	6,120	6,183	5,179	5,329
Cromarty Firth											
Inwards	1,174	1,300	1,659	1,882	1,313	1,605	810	145	242	158	189
Outwards	1,078	1,565	2,004	2,138	1,314	1,773	781	117	153	69	86
Total traffic	2,252	2,864	3,663	4,020	2,628	3,378	1,591	262	395	227	275
Inverness											
Inwards	551	524	520	437	368	409	321	394	510	421	522
Outwards	146	127	151	162	154	155	154	172	154	144	150
Total traffic	697	651	671	599	521	563	475	566	664	565	672
Peterhead											
Inwards	524	482	538	541	584	589	768	950	695	842	732
Outwards	347	315	568	513	440	382	608	518	453	447	399
Total traffic	871	797	1,107	1,054	1,024	971	1,377	1,468	1,148	1,288	1,131
Aberdeen											
Inwards	2,407	2,227	2,035	1,966	2,084	2,055	1,986	2,031	1,728	1,948	2,022
Outwards	2,426	1,343	2,129	2,198	2,409	2,209	2,245	2,345	2,042	2,111	2,116
Total traffic	4,833	4,570	4,164	4,165	4,493	4,264	4,231	4,376	3,770	4,058	4,138
Montrose											
Inwards	413	283	395	359	336	417	452	387	362	348	402
Outwards	196	140	116	129	182	171	150	106	142	96	132
Total traffic	609	423	512	488	518	588	601	493	504	444	534
Dundee											
Inwards	788	632	754	721	666	704	463	468	449	500	546
Outwards	190	177	209	208	176	111	54	47	84	67	62
Total traffic	978	810	962	929	842	815	517	515	534	566	608
Perth											
Inwards	141	120	99	61	42	37	49	58	28	23	12
Outwards	1	6	4	13	19	23	12	5	5	9	-
Total traffic	141	125	103	74	62	60	61	63	33	31	12
Forth ⁶											
Inwards	4,856	4,309	5,015	4,307	4,442	4,177	4,056	4,035	4,080	4,286	4,621
Outwards	34,199	32,381	29,321	23,571	20,890	22,188	20,552	23,039	23,359	23,258	21,966
Total traffic	39,054	36,690	34,335	27,878	25,332	26,365	24,608	27,074	27,439	27,544	26,587
Other East Coast ²											
Inwards	281	284	291	302	289	326	348	345	377	344	318
Outwards	263	1,192	289	303	263	239	284	268	224	240	241
Total traffic	549	476	580	605	552	565	632	612	601	584	559
Scotland											
Inwards	28,147	23,272	24,444	24,277	27,684	25,976	25,835	21,845	18,322	18,986	19,781
Outwards	68,198	62,277	60,374	53,135	48,454	45,663	45,546	48,126	48,368	47,999	45,302
Total traffic	96,345	85,547	84,817	77,414	76,139	71,639	71,381	69,968	66,692	66,985	65,083

Source: DfT Maritime Statistics

1. Other West Coast ports are: Troon; Ardrishaig; Corpach; Stornoway; Kyle of Lochalsh; Girvan; Kirkcubright; Port Askaig.

2. Other East Coast ports are: Scrabster; Wick; Gills Bay; Buckie; Fraserburgh; Inverkeithing; Scalloway.

3. Stranraer port was closed from 20 November 2011 and operations were transferred to Loch Ryan port.

4. Figures for 2012 may include some traffic from 2011 due to the transfer of operations from Stranraer.

5. The increase in tonnage on the new Loch Ryan route compared to Stranraer is due to larger ships being used.

6. Includes Rosyth, Braefoot Bay, Burmtisland, Grangemouth, Hound Point, Kirkcaldy, Leith and Methil

Table 9.4 Foreign and domestic freight traffic by port: bulk fuel and all other traffic¹

Port	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Stranraer ⁸											<i>thousand tonnes</i>
Bulk fuel	-	-	-	-	-	-	-	-	-	-	-
All other traffic	1,190	1,177	1,017	986	-	-	-	-	-	-	-
Loch Ryan ^{5,6}											
Bulk fuel	-	-	-	-	-	-	-	-	-	-	-
All other traffic	-	-	-	-	1,815	1,783	2,038	2,163	2,356	2,388	2,546
Cairnryan											
Bulk fuel	-	-	-	-	-	-	-	-	-	-	-
All other traffic	2,928	2,572	2,634	2,932	2,610	2,364	2,368	2,548	2,740	2,848	2,857
Ayr											
Bulk fuel	..	..	..	..	..	..	..	..	..	..	..
All other traffic	557	335	558	402	304	470	355	280	306	240	270
Clyde											
Bulk fuel	12,197	10,672	10,209	11,464	13,547	12,877	14,090	10,332	6,522	6,918	7,096
All other traffic	2,141	1,880	2,074	1,967	1,874	1,906	2,111	2,152	2,220	1,947	1,991
Glensanda											
Bulk fuel	-	-	-	-	-	-	-	-	-	-	-
All other traffic	6,336	5,591	5,846	6,060	5,541	5,746	6,347	5,597	5,487	6,138	5,943
Other West Coast ²											
Bulk fuel	..	..	..	..	..	..	..	..	..	..	..
All other traffic	1,028	896	1,300	709	680	653	803	656	546	563	554
Orkney											
Bulk fuel	4,595	3,027	2,999	2,096	1,487	825	918	3,689	4,348	4,585	3,194
All other traffic	194	214	245	248	242	229	233	256	267	267	276
Lerwick											
Bulk fuel	..	..	..	..	..	..	..	..	..	..	..
All other traffic	658	560	568	585	670	824	838	746	629	604	513
Sullom Voe											
Bulk fuel	14,507	11,217	11,202	10,134	11,339	6,352	7,180	6,108	6,179	5,175	5,326
All other traffic	32	-	69	19	59	41	5	12	4	4	3
Cromarty Firth											
Bulk fuel	2,101	2,730	3,454	3,821	2,410	3,181	1,339	87	207	63	24,145
All other traffic	151	134	209	199	218	197	252	175	188	164	251
Inverness											
Bulk fuel	..	..	..	..	..	..	..	..	..	..	..
All other traffic	697	651	671	599	521	563	475	566	664	565	672
Peterhead											
Bulk fuel	230	309	365	260	282	305	236	330	443	456	471
All other traffic	641	488	742	794	742	667	1,141	1,138	705	832	660
Aberdeen											
Bulk fuel	1,468	1,044	1,022	1,018	1,073	1,073	1,019	1,388	1,130	1,334	1,387
All other traffic	3,365	3,526	3,142	3,147	3,420	3,190	3,212	2,988	2,640	2,724	2,751
Montrose											
Bulk fuel	..	..	..	..	..	..	..	..	..	..	..
All other traffic	609	423	512	488	518	588	601	493	504	444	534
Dundee											
Bulk fuel	493	448	486	560	457	378	169	149	137	127	137
All other traffic	485	362	476	369	385	437	349	366	397	439	470
Perth											
Bulk fuel	..	..	..	..	..	..	..	..	..	..	..
All other traffic	141	125	103	74	62	60	61	63	33	31	12
Forth ⁷											
Bulk fuel	34,863	32,438	30,405	23,208	21,028	22,039	19,982	23,081	22,999	23,336	22,653
All other traffic	4,191	4,252	3,930	4,670	4,304	4,326	4,626	3,993	4,440	4,208	3,934
Other East Coast ³											
Bulk fuel	..	..	..	..	..	..	..	..	..	..	..
Other	549	476	580	605	552	565	632	612	601	584	559
Major ports ⁴											
Bulk fuel ¹	70,454	61,885	60,142	52,561	51,623	47,030	44,933	45,164	41,965	41,994	40,288
All other traffic	21,654	20,196	20,384	21,391	21,210	20,887	22,683	21,388	21,444	21,959	21,681
All traffic:											
Major ports only	92,108	82,081	80,526	73,952	72,833	67,917	67,615	66,552	63,409	63,953	61,970
All ports	96,347	85,547	84,818	77,414	76,140	71,639	71,381	69,968	66,692	66,985	65,083

Source: DfT Maritime Statistics

- From 1995 onwards, separate figures for bulk fuel and other are available for major ports only (see notes and sources).
- Other West Coast ports are: Troon; Ardrishaig; Corpach; Stornoway; Kyle of Lochalsh; Girvan; Kirkcubright; Port Askaig.
- Other East Coast ports are: Scrabster; Wick; Gills Bay; Buckie; Fraserburgh; Inverkeithing; Scalloway.
- From 1995, the totals for bulk fuel and other relate only to the major ports, the numbers of which may change from year to year.
- Figures for 2012 may include some traffic from 2011 due to the transfer of operations from Stranraer.
- The increase in tonnage on the new Loch Ryan route compared to Stranraer is due to larger ships being used.
- Includes Rosyth, Braefoot Bay, Burntisland, Grangemouth, Hound Point, Kirkcaldy, Leith and Methil
- Stranraer port was closed from 20 November 2011 and operations were transferred to Loch Ryan port.

Table 9.5 Foreign and domestic freight traffic by port and mode of appearance (major ports onl

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
West Coast:											
											<i>thousand tonnes</i>
Stranraer¹ *											
Liquid bulk	-	-	-	-	-	-	-	-	-	-	-
Dry bulk	-	-	-	-	-	-	-	-	-	-	-
Container & roll on traffic	1,190	1,177	1,017	986	-	-	-	-	-	-	-
Other general cargo	-	-	-	-	-	-	-	-	-	-	-
All traffic	1,190	1,177	1,017	986	-	-	-	-	-	-	-
Loch Ryan^{2,3}											
Liquid bulk	-	-	-	-	-	-	-	-	-	-	-
Dry bulk	-	-	-	-	-	-	-	-	-	-	-
Container & roll on traffic	-	-	-	-	1,815	1,783	2,038	2,163	2,356	2,388	2,546
Other general cargo	-	-	-	-	-	-	-	-	-	-	-
All traffic	-	-	-	-	1,815	1,783	2,038	2,163	2,356	2,388	2,546
Cairnryan*											
Liquid bulk	-	-	-	-	-	-	-	-	-	-	-
Dry bulk	-	-	-	-	-	-	-	-	-	-	-
Container & roll on traffic	2,928	2,572	2,632	2,932	2,610	2,364	2,368	2,548	2,737	2,847	2,857
Other general cargo	-	-	3	-	-	1	-	-	3	-	-
All traffic	2,928	2,572	2,634	2,632	2,610	2,365	2,368	2,548	2,740	2,847	2,857
Clyde											
Liquid bulk	5,149	4,685	4,853	5,124	5,945	5,777	6,952	6,729	6,125	6,918	7,093
Dry bulk	8,095	6,904	6,793	7,564	8,778	8,377	8,451	4,899	1,668	1,125	1,144
Container & roll on traffic	439	447	509	599	588	499	576	634	651	599	641
Other general cargo	654	516	128	144	109	130	221	223	298	223	209
All traffic	14,338	12,552	12,283	13,431	15,421	14,783	16,201	12,484	8,742	8,865	9,087
Glensanda											
Liquid bulk	-	-	-	-	-	-	-	-	-	-	-
Dry bulk	6,336	5,591	5,846	6,060	5,541	5,746	6,347	5,597	5,487	6,138	5,943
Container & roll on traffic	-	-	-	-	-	-	-	-	-	-	-
Other general cargo	-	-	-	-	-	-	-	-	-	-	-
All traffic	6,336	5,591	5,846	6,060	5,541	5,746	6,347	5,597	5,487	6,138	5,943
East Coast:											
Orkney											
Liquid bulk	4,594	3,026	2,998	2,095	1,486	824	918	3,688	4,348	4,585	3,194
Dry bulk	6	12	20	25	15	11	12	16	9	9	15
Container & roll on traffic	161	181	213	211	215	208	209	234	243	242	242
Other general cargo	29	21	14	13	13	11	12	7	15	16	19
All traffic	4,789	3,241	3,244	2,344	1,729	1,054	1,151	3,945	4,615	4,852	3,470
Sullom Voe											
Liquid bulk	14,507	11,217	11,202	10,134	11,339	6,357	7,180	6,114	6,179	5,175	5,326
Dry bulk	-	-	69	12	57	13	-	5	4	3	3
Container & roll on traffic	-	-	-	-	-	-	-	-	-	-	-
Other general cargo	32	-	-	7	2	24	5	-	-	-	-
All traffic	14,539	11,217	11,270	10,153	11,398	6,394	7,185	6,120	6,183	5,179	5,329
Cromarty Firth											
Liquid bulk	2,100	2,727	3,460	3,821	2,408	3,178	1,337	89	213	71	35
Dry bulk	70	73	125	159	144	115	174	109	108	131	105
Container & roll on traffic	-	-	-	-	-	-	-	-	-	-	-
Other general cargo	81	64	78	41	76	85	80	64	74	24	135
All traffic	2,252	2,864	3,663	4,020	2,628	3,378	1,591	262	395	227	275
Peterhead*											
Liquid bulk	440	377	453	390	386	364	536	735	535	560	606
Dry bulk	101	88	144	158	100	53	155	97	64	32	43
Container & roll on traffic	-	-	-	-	-	-	-	-	-	-	-
Other general cargo	331	331	510	506	538	554	686	635	549	696	483
All traffic	871	797	1,107	1,054	1,024	971	1,377	1,468	1,148	1,288	1,131
Aberdeen											
Liquid bulk	2,184	2,065	1,957	1,922	2,059	1,987	1,986	2,298	2,188	2,131	2,095
Dry bulk	308	331	549	606	439	474	487	455	367	405	519
Container & roll on traffic	355	345	365	405	468	474	430	408	409	505	486
Other general cargo	1,986	1,829	1,293	1,231	1,527	1,329	1,328	1,215	806	1,018	1,038
All traffic	4,833	4,570	4,164	4,165	4,493	4,264	4,231	4,376	3,770	4,058	4,138
Dundee*											
Liquid bulk	501	451	493	571	467	379	183	157	147	145	180
Dry bulk	373	300	412	277	294	369	259	310	304	330	354
Container & roll on traffic	-	-	-	-	-	-	-	-	-	-	-
Other general cargo	104	59	57	81	82	67	75	48	82	92	74
All traffic	978	810	962	929	842	815	517	515	534	566	608
Forth⁴											
Liquid bulk	33,941	31,913	29,432	23,353	20,739	22,109	20,363	23,183	23,323	23,556	22,778
Dry bulk	1,994	1,840	1,904	1,392	1,283	1,125	1,056	958	963	979	1,138
Container & roll on traffic	2,627	2,494	2,751	2,666	2,798	2,858	2,834	2,643	2,792	2,737	2,538
Other general cargo	492	442	249	466	512	273	355	290	361	272	132
All traffic	39,054	36,690	34,335	27,878	25,332	26,365	24,608	27,074	27,439	27,544	26,587

Source: DfT Maritime Statistics

* Cairnryan and Peterhead did not become "major ports" (in terms of the statistical survey) until 1997 and 1999 respectively. Dundee and Stranraer also became major ports in 2000.

1. Stranraer port was closed from 20 November 2011 and operations were transferred to Loch Ryan port.

2. Figures for 2012 may include some traffic from 2011 due to the transfer of operations from Stranraer.

3. The increase in tonnage on the new Loch Ryan route compared to Stranraer is due to larger ships being used.

4. Includes Rosyth, Braehead Bay, Burntisland, Grangemouth, Hound Point, Kirkcaldy, Leith and Methil

Table 9.6 (a) Foreign and domestic freight traffic at the major ports by type of traffic, 2017

	Foreign traffic			Domestic traffic			Total
	Imports	Exports	Total	Inwards	Outwards	Total	
	<i>thousand tonnes</i>						
Loch Ryan	-	-	-	1,155	1,233	2,388	2,388
Cairnryan	-	-	-	1,399	1,448	2,847	2,847
Clyde	5,747	1,541	7,288	752	824	1,577	8,865
Glensanda	-	3,849	3,849	-	2,289	2,289	6,138
Orkney	5	4,127	4,132	204	516	720	4,852
Sullom Voe	-	-	-	-	4,577	4,577	5,179
Cromarty Firth	103	47	151	55	21	76	227
Peterhead	78	9	88	763	437	1,200	1,288
Aberdeen	411	315	726	1,536	1,796	3,332	4,058
Dundee	481	64	546	18	2	20	566
Forth ¹	3,824	20,934	24,758	461	2,324	2,785	27,544
All Major Ports	10,649	30,886	41,538	6,343	15,467	21,811	63,952

Source: DfT Maritime Statistics

1. Includes Rosyth, Braefoot Bay, Burntisland, Grangemouth, Hound Point, Kirkcaldy, Leith and Methil

Table 9.6 (b) Foreign and domestic freight traffic at the major ports by type of traffic, 2018

	Foreign traffic			Domestic traffic			Total
	Imports	Exports	Total	Inwards	Outwards	Total	
	<i>thousand tonnes</i>						
Loch Ryan	-	-	-	1,263	1,283	2,546	2,546
Cairnryan	-	-	-	1,323	1,534	2,857	2,857
Clyde	6,097	1,366	7,463	728	895	1,623	9,087
Glensanda	-	3,684	3,684	-	2,258	2,258	5,943
Orkney	7	3,117	3,124	203	143	346	3,470
Sullom Voe	-	4,568	4,568	-	761	761	5,329
Cromarty Firth	141	32	173	48	53	101	275
Peterhead	160	5	165	572	394	966	1,131
Aberdeen	525	355	881	1,496	1,761	3,257	4,138
Dundee	494	54	548	51	8	59	608
Forth ¹	4,037	20,148	24,185	585	1,818	2,403	26,587
All Major Ports	11,462	33,330	44,792	6,268	10,909	17,178	61,969

Source: DfT Maritime Statistics

1. Includes Rosyth, Braefoot Bay, Burntisland, Grangemouth, Hound Point, Kirkcaldy, Leith and Methil

Table 9.7 All traffic at the major ports by mode of appearance and commodity, 2018

	Foreign traffic		All foreign traffic	Domestic traffic		All domestic traffic	All foreign & domestic traffic
	Imports	Exports		Inwards	Outwards		
<i>thousand tonnes</i>							
Liquid bulk							
Liquefied gas	459	1,947	2,407	34	516	550	2,957
Crude oil	4,896	20,801	25,697	353	1,476	1,829	27,526
Oil products	2,536	4,184	6,719	1,456	1,627	3,082	9,802
Other liquid bulk products	326	1	327	169	525	694	1,022
All liquid bulk traffic	8,217	26,933	35,150	2,012	4,144	6,156	41,306
Dry bulk							
Ores	20	507	528	-	109	109	636
Coal	-	-	-	-	3	3	3
Agricultural products (eg grain, soya, tapioca)	755	50	805	110	46	156	960
Other dry bulk	1,033	3,770	4,802	524	2,337	2,862	7,664
All dry bulk traffic	1,808	4,327	6,134	634	2,496	3,130	9,264
Containers							
20' freight units	288	349	638	34	36	70	708
40' freight units	386	995	1,381	49	228	276	1,658
Freight units >20' & <40'	50	166	216	2	1	2	219
Freight units >40'	221	224	446	7	8	14	460
All container traffic	946	1,735	2,681	91	271	363	3,044
Roll-on/roll-off (self-propelled)							
Road goods vehicles with or without accompanying trailers	0	0	1	1,593	1,788	3,381	3,382
Import/Export motor vehicles	3	1	3	4	6	10	13
All ro-ro self-propelled traffic	3	1	4	1,597	1,794	3,391	3,395
Roll-on/roll-off (non self-propelled)							
Unaccompanied road goods trailers & semi-trailers	23	23	46	1,283	1,358	2,641	2,687
Unaccompanied caravans and other road, agricultural and industrial vehicles	0	-	0	0	1	2	2
Rail wagons, shipborne port to port trailers, and shipborne barges engaged in goods transport	55	87	141	22	19	41	182
Other mobile non self-propelled units	-	-	-	-	-	-	-
All ro-ro non self-propelled traffic	78	109	187	1,305	1,378	2,684	2,871
Other general cargo							
Forestry products	224	44	267	16	-	16	283
Iron and steel products	65	23	88	3	2	5	93
Other general cargo & containers <20'	121	159	279	610	824	1,434	1,713
All other general cargo traffic	409	225	634	628	826	1,455	2,089
All traffic	11,462	33,330	44,792	6,268	10,909	17,178	61,969

Source: DfT Maritime Statistics

Fig 9.2: Maps showing all routes

Responsibility

- Scottish Government Routes
- Local Authority Routes
- Private Routes
- Other Subsidy Routes

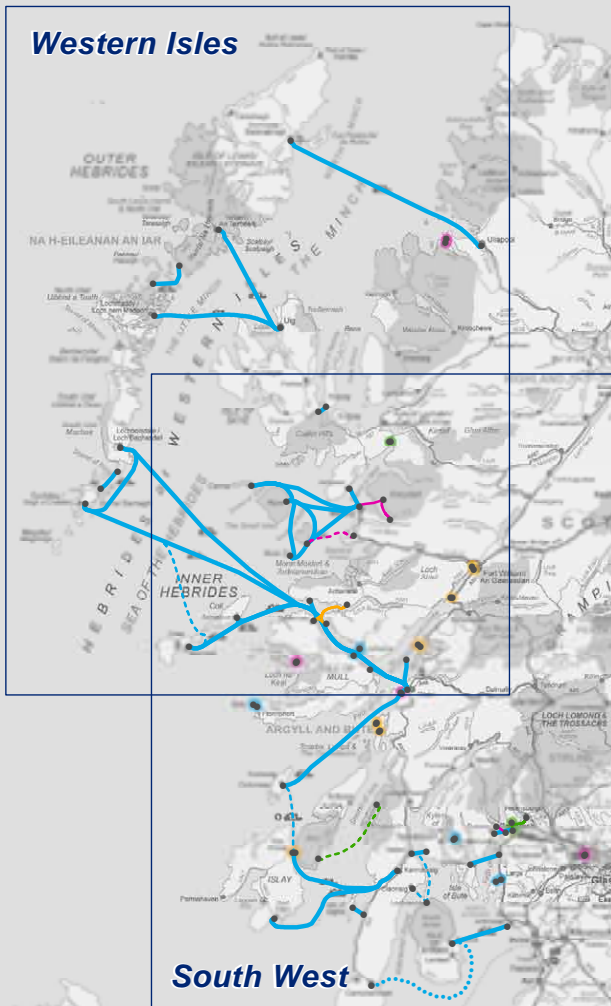
Note:
A dashed line denotes a seasonal route, a dotted line denotes a proposed (not yet active) route.

- Seasonal Route
- Proposed Route

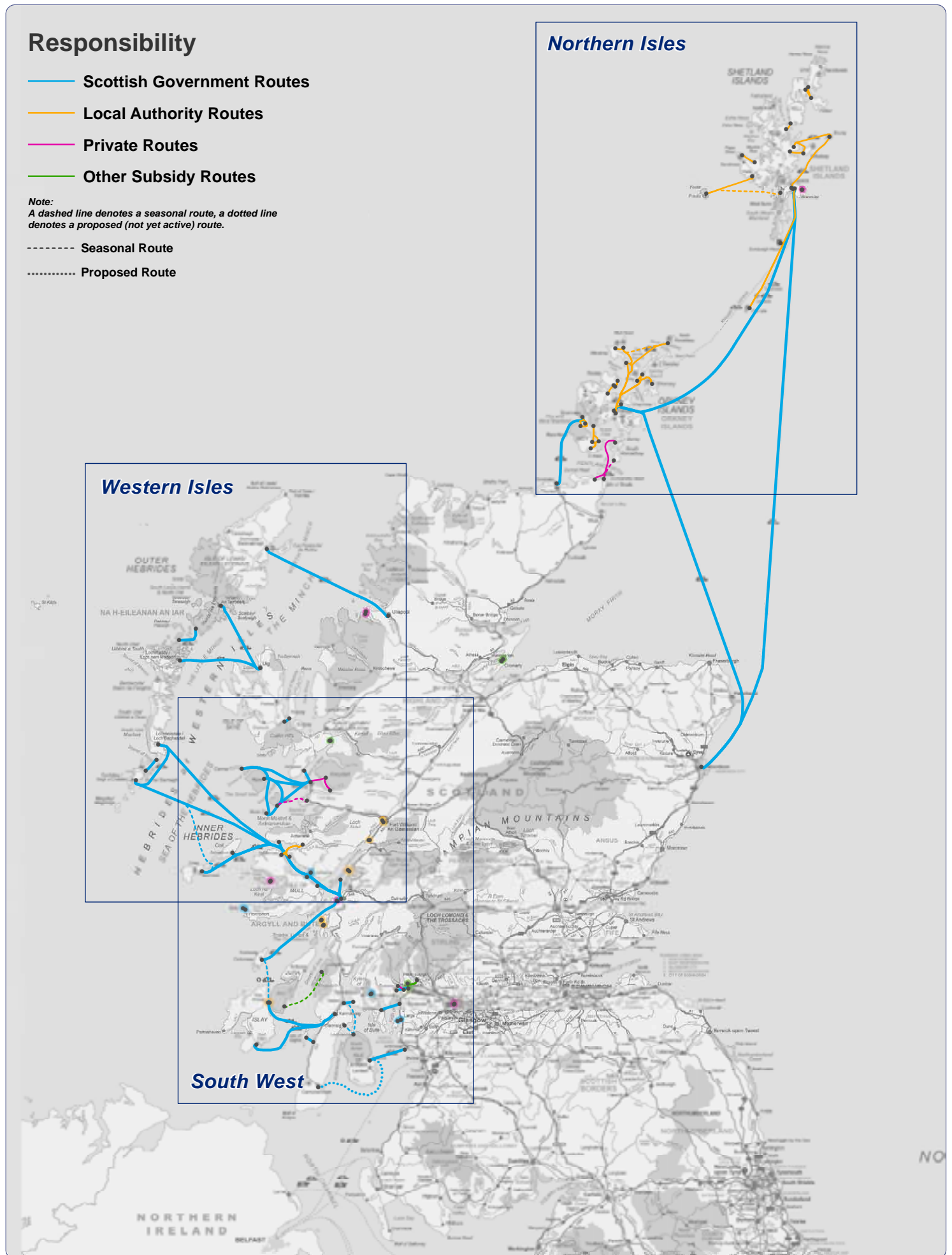
Northern Isles



Western Isles



South West



Scottish Ferry Routes

National Overview

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Scottish Government GI Science & Analysis Team
December 2012, Job 5349 - KT



Water Transport

Table 9.8 Major ports traffic by cargo category and country of loading or unloading - 2018

Country of loading or unloading	Liquid Bulks			Dry Bulks			Other General Cargo		
	Inwards to UK	Outwards from UK	All traffic	Inwards to UK	Outwards from UK	All traffic	Inwards to UK	Outwards from UK	All traffic
<i>thousand tonnes</i>									
European Union (as at 1 May 2007)									
Belgium	982	1,829	2,810	27	271	298	1	1	2
Croatia	-	84	84	-	-	-	-	-	-
Cyprus	-	-	-	-	-	-	1	-	1
Denmark	296	169	465	42	226	268	46	24	70
Estonia	84	13	97	-	-	-	2	-	2
Finland	24	16	40	46	-	46	29	-	29
France	24	534	558	140	51	191	10	1	11
Germany	178	2,287	2,465	139	1,849	1,989	52	-	52
Greece	61	280	340	40	-	40	-	-	-
Irish Republic	-	817	817	51	-	51	46	-	46
Italy	20	293	314	3	-	3	1	-	1
Latvia	-	16	16	23	6	29	30	-	30
Lithuania	8	46	54	9	-	9	-	1	1
Malta	-	-	-	-	-	-	-	2	2
Netherlands	781	8,178	8,958	146	1,254	1,400	8	4	11
Poland	17	179	196	56	167	223	-	-	-
Portugal	11	15	25	3	58	62	13	-	13
Romania	-	6	6	16	-	16	-	-	-
Spain	39	687	727	464	410	875	15	4	19
Sweden	296	359	656	14	6	20	35	52	87
All EU countries (as at 1 May 2007)	2,821	15,808	18,628	1,219	4,298	5,520	289	89	377
All other Europe & Mediterranean									
Azerbaijan	-	-	-	-	2	2	-	10	10
Egypt	3	-	3	-	-	-	-	-	-
Georgia	-	-	-	-	-	-	-	3	3
Gibraltar	-	43	43	-	-	-	-	-	-
Iceland	1	-	1	12	-	12	-	-	-
Israel	-	-	-	-	-	-	-	1	1
Morocco	-	49	49	3	3	6	-	-	-
Norway	710	55	765	126	5	131	66	46	112
Russia	568	-	568	22	-	22	3	-	3
Tunisia	1	-	1	60	-	60	5	-	5
Turkey	-	-	-	-	-	-	-	-	-
Ukraine	-	-	-	134	-	134	-	-	-
All other Europe & Med.	1,283	147	1,430	357	10	367	74	60	134
Africa (excluding Mediterranean countries)									
Angola	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	2	2
Gabon	-	-	-	-	-	-	-	-	-
Ghana	-	-	-	-	-	-	-	1	1
Kenya	-	-	-	-	-	-	-	-	-
Mauritius	-	-	-	-	-	-	-	-	-
Mozambique	-	-	-	-	-	-	-	-	-
Nigeria	3,732	-	3,732	-	-	-	-	-	-
South Africa	-	-	-	-	-	-	8	25	33
Tanzania	-	-	-	-	-	-	-	-	-
All Africa (excl. Med.)	3,732	-	3,732	-	-	-	8	28	36
America									
Argentina	-	-	-	101	-	101	-	-	-
Brazil	-	-	-	-	-	-	-	-	-
Canada	-	-	-	55	-	55	-	-	-
Colombia	-	-	-	-	-	-	2	-	2
Mexico	-	-	-	-	-	-	17	-	17
Panama	-	-	-	-	-	-	-	-	-
Tinidad & Tobago	-	-	-	-	-	-	-	-	-
USA	383	928	1,311	47	-	47	-	44	44
Uruguay	-	-	-	-	-	-	-	-	-
All America	383	928	1,311	203	-	203	19	44	63
Asia and Australasia									
Australia	-	-	-	-	-	-	-	2	2
Bangladesh	-	-	-	-	-	-	-	-	-
China	-	5,415	5,415	-	-	-	4	-	4
Hong Kong	-	-	-	-	-	-	-	-	-
India	-	112	112	-	-	-	-	-	-
Indonesia	-	-	-	15	-	15	-	-	-
Iraq	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	10	-	10
Malaysia	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Pakistan	-	-	-	-	-	-	-	-	-
Qatar	-	-	-	-	-	-	-	-	-
Singapore	-	6	6	-	-	-	-	-	-
South Korea	-	4,082	4,082	-	-	-	-	-	-
Sri Lanka	-	-	-	-	-	-	-	-	-
Thailand	-	434	434	14	-	14	-	-	-
United Arab Emirates	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
All Asia and Australasia	-	10,049	10,049	29	-	29	14	2	16
Unspecified countries	-	-	-	-	17	17	6	1	7
All foreign countries	8,219	26,932	35,150	1,808	4,308	6,119	404	223	626
All domestic traffic	2,012	4,144	6,156	634	2,496	3,130	628	826	1,455
All foreign and domestic traffic	10,231	31,076	41,306	2,442	6,821	9,266	1,038	1,050	2,088

"-" denotes either nil or less than half final digit shown.

Table 9.8 (Continued) Major ports traffic by cargo category and country of loading or unloading - 2017

Country of loading or unloading	Container Traffic			Ro-Ro Traffic			All Traffic		
	Inwards to UK	Outwards from UK	All traffic	Inwards to UK	Outwards from UK	All traffic	Inwards to UK	Outwards from UK	All traffic
<i>thousand tonnes</i>									
European Union (as at 1 May 2007)									
Belgium	134	551	685	68	82	149	1,212	2,734	3,946
Croatia	-	-	-	-	-	-	-	84	84
Cyprus	1	-	1	-	-	-	2	-	2
Denmark	-	-	-	-	-	-	384	419	803
Estonia	-	-	-	-	-	-	86	13	99
Finland	-	-	-	-	-	-	99	16	115
France	10	239	249	-	-	-	184	825	1,009
Germany	2	-	2	-	-	-	371	4,136	4,507
Greece	-	-	-	-	-	-	101	280	381
Irish Republic	-	-	-	-	-	-	97	817	914
Italy	32	-	32	-	-	-	56	293	349
Latvia	-	-	-	-	-	-	53	22	75
Lithuania	-	-	-	-	-	-	17	47	64
Malta	-	-	-	-	-	-	-	2	2
Netherlands	576	784	1,359	-	-	-	1,511	10,220	11,731
Poland	-	-	-	-	-	-	73	346	419
Portugal	2	46	48	-	-	-	29	119	148
Romania	-	-	-	-	-	-	16	6	22
Spain	105	106	211	-	-	-	623	1,207	1,830
Sweden	-	-	-	-	-	-	345	417	762
All EU countries (as at 1 May 2007)	862	1,726	2,587	68	82	149	5,259	22,003	27,262
All other Europe & Mediterranean									
Azerbaijan	-	-	-	-	-	-	-	12	12
Egypt	-	-	-	-	-	-	3	-	3
Georgia	-	-	-	-	-	-	-	3	3
Gibraltar	-	-	-	-	-	-	-	43	43
Iceland	-	-	-	-	-	-	13	-	13
Israel	4	-	4	-	-	-	4	1	5
Morocco	-	-	-	-	-	-	3	52	55
Norway	4	7	12	14	28	42	920	141	1,061
Russia	-	-	-	-	-	-	593	-	593
Tunisia	-	-	-	-	-	-	66	-	66
Turkey	6	-	6	-	-	-	6	-	6
Ukraine	-	-	-	-	-	-	134	-	134
All other Europe & Med.	14	7	22	14	28	42	1,742	252	1,994
Africa (excluding Mediterranean countries)									
Angola	-	-	-	-	-	-	-	-	-
Cameroon	-	-	-	-	-	-	-	2	2
Gabon	-	-	-	-	-	-	-	-	-
Ghana	-	-	-	-	-	-	-	1	1
Kenya	-	-	-	-	-	-	-	-	-
Mauritius	-	-	-	-	-	-	-	-	-
Mozambique	-	-	-	-	-	-	-	-	-
Nigeria	-	-	-	-	-	-	3,732	-	3,732
South Africa	3	2	5	-	-	-	11	27	38
Tanzania	-	-	-	-	-	-	-	-	-
All Africa (excl. Med.)	3	2	5	-	-	-	3,743	30	3,773
America									
Argentina	-	-	-	-	-	-	101	-	101
Brazil	2	-	2	-	-	-	2	-	2
Canada	-	-	-	-	-	-	55	-	55
Colombia	-	-	-	-	-	-	2	-	2
Mexico	-	-	-	-	-	-	17	-	17
Panama	-	-	-	-	-	-	-	-	-
Tinidad & Tobago	-	-	-	-	-	-	-	-	-
USA	8	-	8	-	-	-	438	972	1,410
Uruguay	1	-	1	-	-	-	1	-	1
All America	11	-	11	-	-	-	616	972	1,588
Asia and Australasia									
Australia	-	-	-	-	-	-	-	2	2
Bangladesh	-	-	-	-	-	-	-	-	-
China	36	-	36	-	-	-	40	5,415	5,455
Hong Kong	-	-	-	-	-	-	-	-	-
India	11	-	11	-	-	-	11	112	123
Indonesia	-	-	-	-	-	-	15	-	15
Iraq	-	-	-	-	-	-	-	-	-
Japan	-	-	-	-	-	-	10	-	10
Malaysia	-	-	-	-	-	-	-	-	-
Oman	-	-	-	-	-	-	-	-	-
Pakistan	3	-	3	-	-	-	3	-	3
Qatar	-	-	-	-	-	-	-	-	-
Singapore	1	-	1	-	-	-	1	6	7
South Korea	-	-	-	-	-	-	-	4,082	4,082
Sri Lanka	-	-	-	-	-	-	-	-	-
Thailand	1	-	1	-	-	-	15	434	449
United Arab Emirates	-	-	-	-	-	-	-	-	-
Vietnam	-	-	-	-	-	-	-	-	-
All Asia and Australasia	52	-	52	-	-	-	95	10,051	10,146
Unspecified countries	-	-	-	-	-	-	6	18	24
All foreign countries	942	1,735	2,677	82	110	191	11,455	33,308	44,763
All domestic traffic	91	271	363	2,902	3,172	6,074	6,268	10,909	17,178
All foreign and domestic traffic	1,033	2,006	3,040	2,984	3,282	6,265	17,729	44,235	61,965

"-" denotes either nil or less than half final digit shown.

WATER TRANSPORT

Table 9.9 Foreign and coastwise container and roll-on traffic by type¹

	2008	2009	2010	2011	2012	2013	2014	2015 ³	2016	2017
Main Freight Units										<i>thousand</i>
Containers	252	251	242	269	286	268	264	..	..	..
Wheeled ²	463	420	427	464	473	506	476	..	..	..
Total	715	672	670	733	759	774	740	..	..	..
Weight										<i>thousand tonnes</i>
Containers	3,115	2,894	2,794	2,928	3,190	3,118	3,162	..	..	..
Wheeled ²	5,264	5,027	5,382	5,696	5,695	5,505	5,747	..	..	..
Total	8,378	7,920	8,177	8,624	8,886	8,624	8,908	..	..	..

Source: DfT Maritime Statistics

1. With effect from 1995, traffic at smaller ports is estimated

2. Includes road goods vehicles, unaccompanied trailers, and shipborne port to port trailers

3. DfT have now discontinued the publication of a number of tables in their publication. We are no longer able to update this table.

Table 9.10 Inland waterway freight traffic lifted and moved

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Freight lifted in Scotland												<i>million tonnes</i>
River Clyde	2.53	1.46	2.34	2.56	2.25	1.88	1.8	1.91	1.93	1.68	1.48	
River Forth	9.52	8.52	8.22	7.99	8.50	8.76	7.54	8.24	8.49	8.78	8.95	
All waterways ^{1,2}	12.19	10.10	10.89	10.70	10.79	10.65	9.41	10.14	10.42	10.46	10.43	
Freight moved (weight x distance)												<i>million tonne-kilometres</i>
River Clyde	110	60	90	100	89	76	74	77	78	67	59	
River Forth	200	180	170	170	178	184	158	173	178	184	188	
All waterways ^{1,2}	320	250	280	270	269	260	234	250	257	252	247	

Source: DfT Maritime Statistics

1. Includes also Caledonian Canal, lochs Fyne, Leven and Linnhe, Moray Firth, River Tay.

2. From 2015 the totals do not include other waterways.

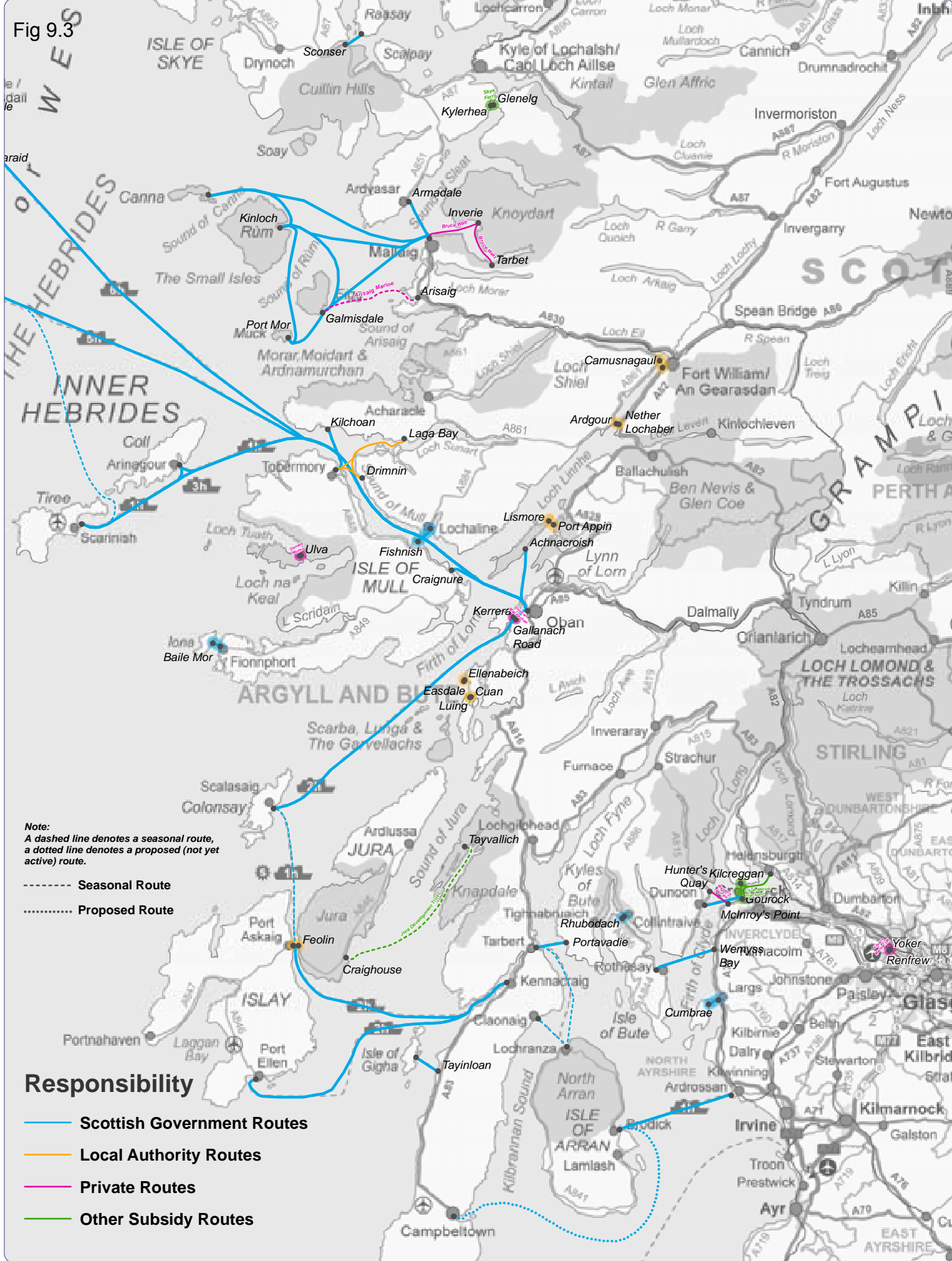
Table 9.11 Inland waterway freight traffic lifted and moved by mode of appearance

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Freight lifted in Scotland												<i>million tonnes</i>
Bulk-liquid	7.48	6.57	6.55	6.18	6.97	6.84	5.31	6.49	..	..	..
Bulk-dry	1.51	1.02	2.05	2.15	1.39	1.40	1.50	1.49	..	..	..
Unitised forest products	0.24	0.16	0.14	0.11	0.03	0.01	0.04	..	..	..	..
Other semi-bulk	..	..	..	..	..	..	..	..	..	..	..
Break bulk	..	..	..	..	..	..	..	..	..	..	..
Other general cargo	0.60	0.10	0.10	0.17	0.14	0.17	0.25	0.13	..	..	..
Unit loads	2.37	2.26	2.05	2.10	2.27	2.29	2.35	2.12	..	..	..
Total	12.19	10.10	10.89	10.70	10.80	10.7	9.41	10.27	..	..	..
Freight moved (weight x distance)												<i>million tonne-kilometres</i>
Bulk-liquid	170	150	150	140	161	152	115	126	..	..	..
Bulk-dry	60	40	80	90	56	57	60	54	..	..	..
Unitised forest products	10	-	..	-	-	-	2	..	..	..	..
Other semi-bulk	..	..	..	..	..	..	..	..	..	..	..
Break bulk	..	..	..	..	..	..	..	..	..	..	..
Other general cargo	20	-	..	10	4	5	8	..	..	..	..
Unit loads	60	50	40	40	48	48	50	..	..	..	..
Total	320	250	280	280	269	262	234	256	..	..	..

Source: DfT Maritime Statistics

1. DfT have now discontinued the publication of a number of tables in their publication. We are no longer able to update this table.

Fig 9.3



Note:
A dashed line denotes a seasonal route,
a dotted line denotes a proposed (not yet active) route.

- Seasonal Route
- Proposed Route

Responsibility

- Scottish Government Routes
- Local Authority Routes
- Private Routes
- Other Subsidy Routes

Scottish Ferry Routes

South Western Scotland

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Scottish Government GI Science & Analysis Team
December 2012, Job 5349 - KT



Table 9.12 Total passengers and vehicles carried by operator¹

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	<i>thousands</i>										
PASSENGERS											
Caledonian MacBrayne	4,533.2	4,762.3	4,736.6	4,575.0	4,510.7	4,594.5	4,654.0	4,627.0	5,056.0	5,237.0	5,253.0
Cowal Ferries ⁵	550.8	533.5	499.2	..	..	..	..	..	..	..	..
Argyll Ferries Ltd ⁵	..	..	..	409.2	341.3	299.2	310.1	305.5	303.4	301.8	288.0
P&O Scottish Ferries	..	..	..	..	..	..	..	..	..	..	..
Serco Northlink ²	296.0	309.0	305.0	304.0	298.0	282.9	288.6	297.6	301.5	307.5	322.5
Orkney Ferries	319.0	329.5	330.7	337.8	335.6	328.4	320.3	315.2	329.2	331.4	338.9
Shetland Islands Council ⁶	634.1	636.5	625.0	615.0	811.3	777.1	761.5	742.0	774.9	776.1	763.9
Argyll & Bute Council	141.6	138.0	135.3	133.8	139.6	138.4	138.2	141.2	149.5	144.2	138.9
Highland Council ⁴	1.0	3.9	4.4	3.0	5.1	10.3	10.0	11.2	8.9	8.4	8.3
Strathclyde Partnership for Transport	211.4	219.4	63.5	57.7	52.6	57.0	54.4	53.6	55.5	41.2	42.9
Western Ferries	1,308.5	1,336.2	1,313.8	1,332.7	1,389.3	1,342.7	1,347.2	1,331.1	1,341.0	1,353.7	1,372.7
Bruce Watt Cruises ⁷	4.9	3.3	3.0	4.9	4.6	-	-	-	-	-	-
Cromarty Ferry Company	..	..	..	..	..	..	..	..	..	..	..
West Highland Seaways	..	..	..	..	..	..	..	..	..	..	0.0
Orkney Line (Previously Orcargo) ³	..	..	..	..	..	..	..	..	..	..	..
Total within Scotland	8,000.6	8,271.6	8,016.4	7,773.1	7,888.1	7,830.5	7,884.3	7,824.4	8,320.0	8,501.4	8,529.1
Scotland and Northern Ireland	1,938.0	1,916.0	1,920.0	1,857.7	1,809.4	1,831.0	1,794.2	1,729.3	1,752.7	1,753.1	1,750.0
Scotland and Europe	75.0	31.0	54.0	0.6	0.7	0.7	0.7	0.5	0.7	0.4	0.0
Total	10,013.6	10,218.6	9,990.4	9,631.4	9,698.3	9,662.2	9,679.1	9,554.2	10,073.4	10,254.8	10,279.2
VEHICLES (cars, commercial vehicles and buses)											
Caledonian MacBrayne	1,151.8	1,215.8	1,186.8	1,173.3	1,156.0	1,168.1	1,200.0	1,267.0	1,445.0	1,519.0	1,520.0
Cowal Ferries ⁵	75.6	74.5	64.9	27.3	..	..	..	..	..	..	..
Argyll Ferries Ltd ⁵	..	..	..	..	..	..	..	..	..	..	..
P&O Scottish Ferries	..	..	..	..	..	..	..	..	..	..	..
Serco Northlink ²	68.0	68.0	64.0	63.0	61.2	56.1	55.8	58.9	63.2	67.6	72.0
Orkney Ferries	81.2	87.4	88.7	86.6	87.4	83.8	83.9	84.7	87.3	89.3	93.5
Shetland Islands Council ⁶	273.5	281.2	282.8	297.4	392.3	377.0	366.3	366.6	387.1	412.9	374.6
Argyll & Bute Council	36.5	36.5	33.8	33.4	32.8	29.9	32.9	35.9	43.2	41.8	40.5
Highland Council	262.1	266.3	235.8	254.4	252.8	246.0	259.2	258.6	262.5	270.1	272.2
Western Ferries	620.2	617.8	597.2	615.8	645.5	616.4	627.9	634.5	641.8	659.4	670.6
Cromarty Ferry Company	..	..	..	..	..	..	..	..	..	..	..
Orkney Line (Previously Orcargo) ³	..	..	..	..	..	..	..	..	..	..	..
Total within Scotland	2,568.9	2,647.5	2,554.0	2,551.4	2,628.1	2,577.2	2,626.0	2,706.3	2,930.2	3,060.0	3,043.4
Scotland and Northern Ireland	452.0	460.0	457.0	479.0	411.8	354.3	407.9	398.1	408.2	412.6	405.1
Scotland and Europe	35.0	27.4	60.6	41.1	36.3	41.2	40.6	43.4	32.8	33.1	8.0
Total	3,055.9	3,134.9	3,071.5	3,071.5	3,076.2	2,972.7	3,074.5	3,147.8	3,371.2	3,505.8	3,456.5

Source: Ferry operators - Not National Statistics

1. No data is available for Pentland ferries

2. P & O Scottish Ferries stopped operating these services on 30 September 2002. NorthLink Orkney & Shetland Ferries Ltd operated from 1 October 2002 until 6 July 2006; NorthLink Ferries Ltd operated from 6 July 2006 until 5 July 2012; Serco NorthLink Ferries operated from 5 July 2012 to date.

3. This service ceased to operate from May 2001.

4. Figures for passenger numbers on the Corran ferry service have not been included in the total for Scotland. Figures for 2013 and 2014 are new estimates and considered as 'data under development'.

5. Cowal Ferries operated the Gourock-Dunoon route from October 2006 until June 2011 when Argyll Ferries took over operation and carry passengers only. It is not possible to split passenger figures for 2011 between the two operators.

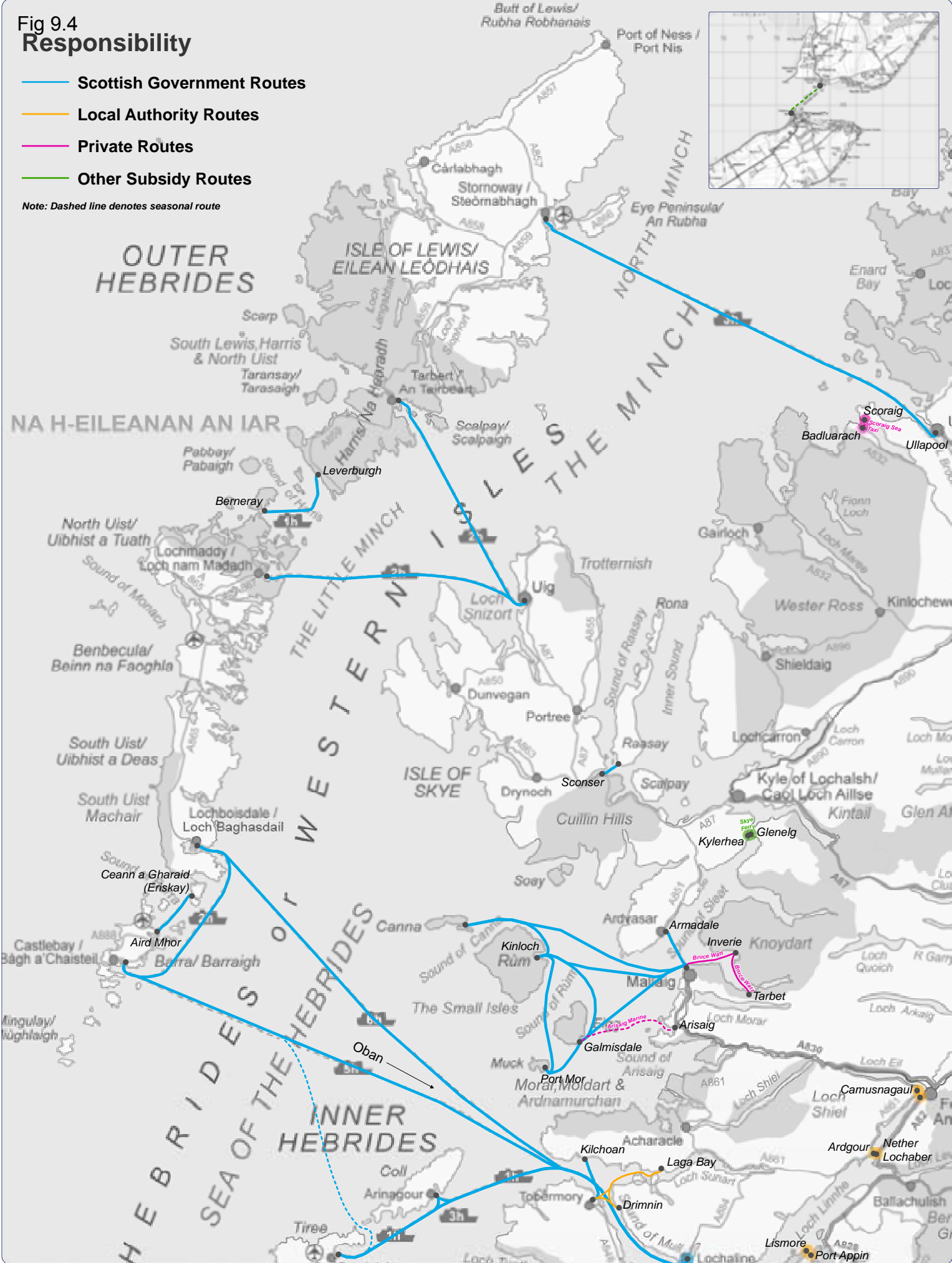
6. Only includes main routes listed in Table 9.16

7. Bruce Watt Cruises no longer operates due to retirement.

Fig 9.4
Responsibility

- Scottish Government Routes
- Local Authority Routes
- Private Routes
- Other Subsidy Routes

Note: Dashed line denotes seasonal route



Scottish Ferry Routes

Western Isles

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Scottish Government GI Science & Analysis Team
November 2012, Job 5349 - KT

Table 9.13(a) Vehicle and Passenger Traffic between Scotland and Northern Ireland

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	<i>thousands</i>										
Cairnryan - Larne											
Numbers of cars	154	154	151	153	126	117	121	119	135	136	132
Numbers of passengers	628	602	611	631	524	501	492	472	536	551	521
Cairnryan - Belfast¹											
Numbers of cars	..	..	..	49	239	187	237	243	273	276	273
Numbers of passengers	..	..	..	96	1,116	1,150	1,124	1,126	1,217	1,202	1,229
Stranraer - Belfast¹											
Numbers of cars	239	244	244	217	..	..	..	..	..	..	..
Numbers of passengers	1,104	1,101	1,084	922	..	..	..	..	..	..	..
Troon - Belfast²											
Numbers of cars	..	..	..	..	..	..	..	..	..	..	..
Numbers of passengers	..	..	..	..	..	..	..	..	..	..	..
Troon - Larne³											
Numbers of cars	59	62	62	60	47	50	50	36	-	-	-
Numbers of passengers	206	213	225	208	169	180	178	131	-	-	-
Total											
Numbers of cars	452	460	457	479	412	354	408	398	408	413	405
Numbers of passengers	1,938	1,916	1,920	1,858	1,809	1,831	1,794	1,729	1,753	1,753	1,750

Source: DfT Maritime Statistics

1. The Stranraer - Belfast ferry service was replaced by the Cairnryan-Belfast route in November 2011.

2. The Troon - Belfast ferry service was withdrawn in December 2004.

3. The Troon - Larne ferry service was withdrawn in September 2015.

Table 9.13 (b) Vehicle and Passenger Traffic between Scotland and other EU countries

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	<i>thousands</i>										
Rosyth - Zeebrugge¹											
Numbers of passengers	74	31	54	0.56	0.71	0.69	0.67	0.48	0.72	0.41	0.05
Numbers of cars	21	9	16	0.003	0.013	0.001	0.002	0.006	0.004	0.041	0.001
Roads goods vehicles	4	1	12	0.50	0.48	0.55	0.45	0.41	0.49	0.30	0.041
Unaccompanied trailers	5	3	7	6	6	6	6	5	6	6	1.513
Import/export vehicles	5	7	17	14	11	13	14	16	6	5	1.521
Unaccompanied caravans, other road, agricultural and industrial vehicles	-	-	-	0.016	0.028	0.039	0.064	0.095	0.068	0.011	0.003
Rail wagons, shipborne port to port trailers and shipborne barges engaged in goods transport	-	7	9	21	19	21	21	22	20	21	4.916
Lerwick - Bergen²	..	..	..	..	..	..	..	..	..	..	..
Lerwick - Hanstholm²	..	..	..	..	..	..	..	..	..	..	..
Lerwick - Torshaven²	1	..	..	..	..	..	..	..	..	..	..
Total passengers	75	31	54	0.56	0.71	0.69	0.67	0.48	0.72	0.41	0.05
Total vehicles	35	27	61	41	36	41	41	43	33	33	8

Source: DfT Maritime Statistics

1. Does not include containers carried on shipborne port to port trailers.

There was no service in the fourth quarter of 2008. This service closed in April 2018.

The service started in May 2002. The drop in passenger numbers in 2006 follows a reduction in the frequency of the service with effect from November 2005.

2. These are passenger numbers only as car and commercial vehicles are not recorded.

3. Records for Rosyth-Zeebrugge indicate a nil return for 2004. However, there are some 4,230 units attributed to an unknown port of load/unload.

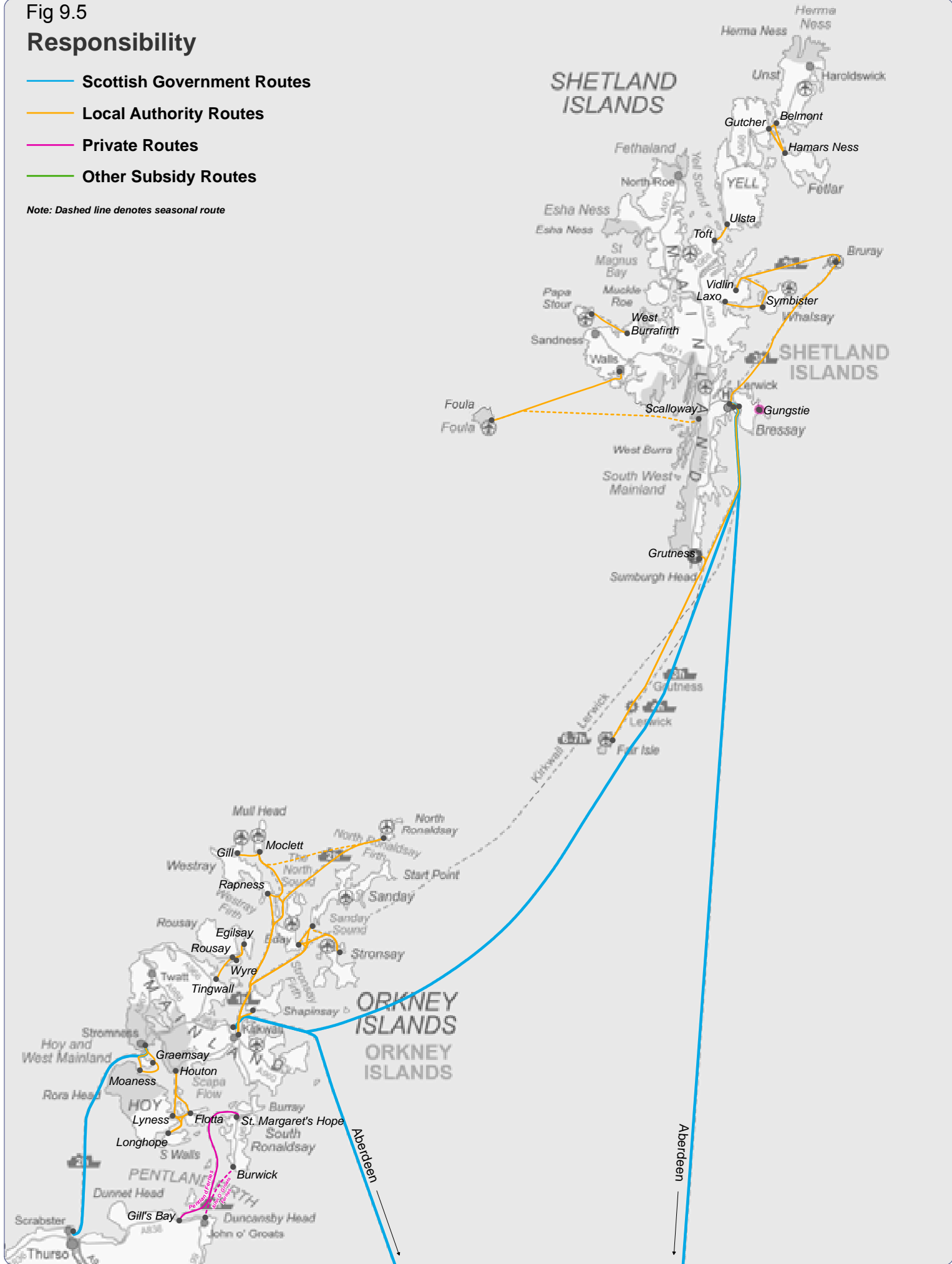
We believe some element of this value includes import/export vehicles for R-Z, although we are unable to estimate what proportion.

Fig 9.5

Responsibility

- Scottish Government Routes
- Local Authority Routes
- Private Routes
- Other Subsidy Routes

Note: Dashed line denotes seasonal route



Scottish Ferry Routes

Orkney & Shetland Isles

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Table 9.14a Shipping services (Operators on subsidised routes)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Caledonian MacBrayne^{1,5,11,18}											<i>thousand</i>
Cars carried	1,042	1,112	1,079	1,062	1,046	1,064	1,096	1,169	1,356	1,428	1,429
Commercial vehicles and buses	110	104	108	111	110	104	104	98	89	91	91
Vehicles (Cowal ferries)	76	75	65	27							
Vehicles (Argyll ferries)											
Passengers	4,533	4,762	4,737	4,575	4,511	4,595	4,654	4,627	5,056	5,237	5,253
Passengers (Cowal ferries)	550.8	533.5	499.2								
Passengers (Argyll ferries)				409.2	341.3	299.2	310.1	305.5	303.4	301.8	288
											<i>thousand tonnes</i>
Loose freight ²	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	0.4
											<i>£ thousand</i>
Revenue from users ¹	57,950	55,856	57,535	58,667	62,118	64,717	67,658	66,055	63,533	69,375	73,367
Subsidy ³	53,338	57,338	58,113	69,308	73,163	88,777	103,397	122,602	132,016	136,820	134,123
Cowal ferries (subsidy) ³	3,130	3,040	3,163	1,008							
Argyll Ferries (subsidy) ³				1,309	1,616	3,037	3,542	3,440	3,633	4,052	4,905
P&O Scottish Ferries¹⁴											<i>thousand</i>
Cars carried											
Commercial vehicles											
Passengers											
											<i>£ thousand</i>
Revenue from users ⁵											
Subsidy ⁵											
Northlink Orkney & Shetland Ferries / Northlink Ferries Ltd / Serco Northlink Ferries⁶											<i>thousand</i>
Cars carried ⁵	68	68	64	63	61	56	55	59	63	67	71
Commercial Vehicles ^{5,7,10}						0.4	0.5	0.4	0.4	0.6	0.5
Passengers ⁵	296	309	305	304	298	283	289	298	302	308	322
											<i>£ thousand</i>
Revenue from users ^{8,9}	22,171	21,694	25,011	25,718	28,426	29,385	30,875	31,976	32,316	34,116	36,610
Subsidy ³	29,207	34,444	36,064	37,172	39,195	28,358	24,773	21,584	22,374	29,625	35,681
Total for these Shipping Services											<i>thousand</i>
Vehicles carried	1,295	1,358	1,316	1,264	1,217	1,224	1,255	1,326	1,508	1,586	1,591
Passengers	5,380	5,605	5,541	5,288	5,150	5,177	5,253	5,230	5,661	5,846	5,863
											<i>thousand tonnes</i>
Loose freight ¹⁵	5.0	5.7	5.3	4.8	4.9	4.7	4.8	4.8	4.9	4.6	0.4
											<i>£ thousand</i>
Revenue from users	82,384	79,830	84,975	86,935	93,366	96,710	101,146	100,713	98,604	106,194	113,019
Subsidy	92,593	102,357	103,620	114,335	119,060	124,059	135,210	151,527	162,015	173,641	178,492
Table 9.14b: Local Authority operators											
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Orkney Ferries											<i>thousand</i>
Vehicles carried	81	87	89	87	87	84	84	85	87	89	94
Passengers	319	330	331	338	336	328	320	315	329	331	339
											<i>thousand tonnes</i>
Loose freight	2.0	2.7	2.3	1.8	1.9	1.7	1.8	1.8	1.9	1.9	1.6
											<i>£ thousand</i>
Revenue from users ^{3,4}	2,263	2,280	2,429	2,550	2,822	2,608	2,613	2,682	2,755	2,703	3,042
Subsidy ^{3,4}	6,918	7,535	6,280	6,847	6,702	6,924	7,040	7,341	7,625	7,196	8,688
Shetland Islands Council^{12,17}											<i>thousand</i>
Vehicles carried	273	281	283	297	392	377	366	367	387	413	375
Passengers	634	637	625	615	811	777	762	742	775	776	764
Highland Council											
Vehicles carried	262.1	266.3	235.8	254.4	252.8	246.0	259.2	258.6	262.5	270.1	272.2
Passengers ¹⁶	1.0	3.9	4.4	3.0	5.1	570.3	576.0	568.2	580.9	588.4	598.3
Argyll and Bute Council											
Vehicles carried	36.5	36.5	33.8	33.4	32.8	29.9	32.9	35.9	43.2	41.8	40.5
Passengers	141.6	138.0	135.3	133.8	139.6	138.4	138.2	141.2	149.5	144.2	138.9
Total for Local Authority operators											<i>thousand</i>
Vehicles carried	653	671	641	672	765	737	742	746	780	814	781
Passengers	1,096	1,108	1,095	1,090	1,292	1,814	1,796	1,767	1,835	1,840	1,840

Source: Ferry companies - Not National Statistics

- Figures include charter and contract carryings (see table 9.15).
- This figure only covers the routes of Mallaig to the smaller isles since the freight is lifted by crane onto the vessels rather than transported by lorry onto the ferry.
- Financial year beginning 1 April of year.
- Revenue from users and subsidy may be subject to amendment following annual audit.
- Calendar year.
- NorthLink Orkney & Shetland Ferries Ltd operated from 1 October 2002 until 6 July 2006; NorthLink Ferries Ltd operated from 6 July 2006 until 5 July 2012; Serco NorthLink Ferries operated from 5 July 2012 to date.
- Only coaches and mini-buses are included under this heading for 2003 and 2013 onwards.
- Years prior to 2006 covered the period 1 October to 30 September. Figures for 2006 relate to a financial year beginning 1 April. Figures for 2007 onwards relate to an operating year from July to June. The subsidy in 2018 has increased due to the change in Freight vessel charter arrangements.
- The figures published previously for 2003 to 2005 were wrong. Corrected figures for 2003 and 2004 are not readily available.
- The number of vehicles are no longer available due to a change in the method of collecting the data.
- Includes Gourrock-Dunoon which has been operated by Argyll Ferries Ltd since 30 June 2011, and Ballycastle-Rathlin which has been operated by Rathlin Ferries since April 2007.
- Since 2008, no fares have been charged on 2 routes, the previous figures are therefore not comparable. Data is for routes included in Table 9.16 only.
- Shetland Council is excluded from these figures as data isn't available for passenger revenue or subsidy
- P & O Scottish Ferries stopped operating its services on 30 September 2002.
- In 2001 P & O's loose freight operations were taken over by a separate company called, Northwards, which did not provide the relevant information.
- Passenger figures aren't recorded for the Corran Ferry until 2013 when they are included in the series.
- These are the main routes, there will be other smaller ones that are not included.
- Passenger and vehicle figures are for calendar years

Table 9.15 Traffic on Subsidised ferry services

Route	Operator	Passengers										
		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Clyde ¹²												
Ardrossan-Brodick ^c	CalMac	707.4	715.7	731.1	692.4	688.7	706.1	715.1	761.9	828.3	844.2	840.1
Ardrossan-Campbeltown ^{11, c}	CalMac	..	..	..	..	..	9.8	11.3	10.7	10.3	10.0	8.8
Ballycastle-Rathlin ⁴	Rathlin Ferries	..	..	..	..	..	..	..	..	..	..	..
Colintraive-Rhubodach ^c	CalMac	256.3	260.6	264.3	228.0	217.1	222.1	214.5	209.4	232.0	216.2	201.9
Gourock-Dunoon ^{5, 6}	CalMac	..	..	..	..	..	..	..	..	..	..	..
Gourock-Dunoon ^f	Cowal Ferries	550.8	533.5	499.2	..	..	..	..	..	..	..	..
Gourock-Dunoon ^f	Argyll Ferries	..	..	..	409.2	341.3	299.2	310.1	305.5	303.4	301.8	287.9
Largs-Cumbræ ^c	CalMac	710.8	720.4	727.3	697.7	695.4	708.9	706.1	687.1	738.5	745.6	793.2
Lochranza-Tarbet/Claonaig ^{1, c}	CalMac	50.2	54.4	52.1	46.9	43.7	43.0	46.7	58.8	66.4	67.2	72
Tarbert-Portavadie ^c	CalMac	59.5	69.7	68.1	61.7	60.9	61.7	62.7	63.3	85.8	85.7	88.5
Wemyss Bay-Rothesay ^c	CalMac	741.0	755.9	735.3	711.5	690.1	676.9	674.1	631.7	675.7	713.9	724.5
Total Clyde		3,076.1	3,110.3	3,077.4	2,847.5	2,737.3	2,727.8	2,740.6	2,728.4	2,940.4	2,984.6	3,016.9
West Coast ¹²												
Ardmhor (Barra)-Eriskay ^c	CalMac	39.7	48.8	46.1	48.4	46.1	45.5	47.4	48.1	57.1	60.0	61.1
Berneray-Leverburgh ^{3, c}	CalMac	53.9	58.2	58.0	58.1	52.8	54.4	57.7	54.4	63.1	68.4	69.6
Fionnphort-Iona ^c	CalMac	222.3	232.2	233.2	221.7	213.5	224.2	223.9	215.4	243.2	250.3	229.5
Fishnish-Lochaline ^c	CalMac	118.2	125.0	115.6	117.1	110.7	108.8	110.9	109.7	105.1	103.4	112.3
Kennacraig-Islay/C'say/Oban ^b	CalMac	9.9	10.1	8.1	11.0	11.4	19.0	19.2	20.8	22.7	22.2	20.6
Kennacraig-Islay ^b	CalMac	159.3	171.4	169.3	174.1	178.4	180.7	189.8	194.8	203.2	214.3	223.8
Mallaig-Eigg/Muck/Rum/Canna ^c	CalMac	23.9	26.1	26.7	25.6	26.6	25.9	29.8	27.8	30.4	30.5	30
Mallaig-Armadale ^c	CalMac	187.5	208.8	212.4	220.8	217.3	237.4	239.4	247.6	250.8	285.5	283.4
Mallaig-Lochboisdale ^{13, c}	CalMac	-	-	-	-	-	0.4	1.2	1.0	22.8	27.6	21.2
Oban-Coll/Tiree/Castlebay ^a	CalMac	10.1	11.7	8.6	10.6	9.5	9.9	10.7	9.6	5.7	5.4	4.9
Oban-Colonsay ^b	CalMac	15.6	16.2	16.4	14.7	14.2	15.7	13.4	11.8	12.0	13.4	13.8
Oban-Lismore ^c	CalMac	15.2	18.2	20.0	20.1	20.1	20.3	19.7	19.9	24.3	26.0	25.4
Oban-Castlebay- Lochboisdale ^a	CalMac	46.2	57.0	58.2	61.6	59.3	58.2	57.7	55.8	43.3	47.2	53.4
Oban-Coll/Tiree ^a	CalMac	46.5	53.0	52.2	50.3	51.4	52.4	52.5	51.5	56.4	58.7	56.9
Oban-Craignure ^c	CalMac	554.6	578.3	564.5	543.7	549.4	553.4	572.0	555.2	644.8	670.3	634.6
Ottemish-Leverburgh ³	CalMac	..	..	..	..	..	..	..	..	..	..	..
Raasay-Sconser ^c	CalMac	64.5	61.6	58.0	53.6	56.5	57.6	57.4	60.3	70.7	82.0	83.8
Tayinloan-Gigha ^b	CalMac	57.8	64.7	66.5	57.9	56.1	58.4	64.1	59.8	63.8	68.0	72.3
Tobermory-Kilchoan ^c	CalMac	38.1	38.3	35.0	34.3	34.2	35.7	35.3	36.4	47.1	49.6	50.3
Uig-Tarbert-Lochmaddy ^{2, a}	CalMac	161.7	185.8	181.8	182.3	183.1	185.1	194.4	188.2	188.1	195.8	192.8
Ullapool-Stornoway ^a	CalMac	182.8	219.9	227.7	230.9	224.2	223.0	226.0	231.9	264.1	275.7	284.5
Total West Coast		2,008.0	2,185.5	2,158.4	2,136.9	2,114.8	2,165.9	2,222.5	2,200.0	2,418.7	2,554.3	2,524.2
North ^{8, 12}												
Aberdeen - Kirkwall ^{7, 8, 9}	Serco Northlink	34.2	37	36	36.6	35	34.2	32.3	34.1	32.9	33.5	35.0
Aberdeen - Lerwick ^{8, 9}	Serco Northlink	101.6	105.9	112.4	113.1	108	116.8	119.2	122.0	116.4	110.1	115.4
Aberdeen - Storness ^{7, 8, 9}	Serco Northlink	..	..	..	..	..	..	..	..	..	..	..
Lerwick - Kirkwall ^{8, 9}	Serco Northlink	13.9	14.6	15.4	16.0	16	16.3	16.3	15.8	17.1	17.5	18.8
Scrabster - Stromness ^{8, 9}	Serco Northlink	145.0	151.0	141.5	138.0	139	115.6	120.8	125.7	135.2	146.4	153.3
Total North		294.7	308.5	305.3	303.7	298.0	282.9	288.6	297.6	301.5	307.5	322.5
Total		5,378.8	5,604.3	5,541.1	5,288.1	5,150.0	5,176.6	5,251.7	5,226.0	5,660.6	5,846.4	5,863.6

Route	Operator	Cars										
		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Clyde ¹²												
Ardrossan-Brodick ^c	CalMac	131.1	136.0	134.2	127.9	127.0	130.4	139.6	189.9	202.8	205.5	199
Ardrossan-Campbeltown ^{11, c}	CalMac	..	..	..	..	..	2.0	2.2	2.3	2.5	2.5	2.2
Colintraive-Rhubodach ^c	CalMac	88.2	87.3	84.6	80.9	76.4	75.5	74.6	83.7	95.2	91.6	84.7
Gourock-Dunoon ^{5, 6}	CalMac	..	..	..	..	..	..	..	..	..	..	..
Gourock-Dunoon ^f	Cowal Ferries	71.8	70.7	61.4	25.8	..	..	..	..	..	..	..
Gourock-Dunoon ^f	Argyll Ferries	..	..	..	..	..	..	..	..	..	..	..
Largs-Cumbræ ^c	CalMac	143.1	139.8	138.7	136.0	134.1	134.9	135	138.2	161.3	169.9	174.1
Lochranza-Tarbet/Claonaig ^{1, c}	CalMac	16.7	17.6	16.6	14.7	14.0	13.9	14.9	20.8	23.9	24.2	25.5
Tarbert-Portavadie ^c	CalMac	21.0	21.6	21.2	19.7	19.0	18.5	18.5	17.9	25.5	26.6	28.8
Wemyss Bay-Rothesay ^c	CalMac	159.9	162.7	155.7	152.9	150.1	144.8	147.5	145.1	172.9	188.7	193.7
Other		..	..	..	..	..	..	..	..	..	..	..
Total Clyde		631.7	635.9	612.4	557.9	520.7	520.0	532.3	597.9	684.1	709.0	708.0
West Coast ¹²												
Ardmhor (Barra)-Eriskay ^c	CalMac	13.9	17.0	16.0	17.0	16.7	16.6	17.0	17.3	22.0	23.0	23.9
Berneray-Leverburgh ^{3, c}	CalMac	21.5	24.7	23.7	23.4	21.7	22.2	23.9	22.5	28.2	29.7	30.4
Fionnphort-Iona ^c	CalMac	4.8	4.6	5.2	5.6	6.1	6.7	6.7	6.7	8.3	8.8	9.1
Fishnish-Lochaline ^c	CalMac	45.2	47.9	45.3	46.2	43.7	43.4	44.6	45.1	42.7	42.9	45.5
Kennacraig-Islay/C'say/Oban ^b	CalMac	2.8	2.8	2.3	3.2	3.1	5.5	6.0	6.6	7.7	7.3	6.8
Kennacraig-Islay ^b	CalMac	52.2	56.3	54.2	56.0	57.3	61.8	65.8	66.8	69.7	76.4	79.5
Mallaig-Eigg/Muck/Rum/Canna ^c	CalMac	0.9	0.8	1.0	0.8	1.0	0.9	1.1	1.1	1.7	1.7	1.7
Mallaig-Armadale ^c	CalMac	46.6	54.3	51.9	52.4	50.3	52.4	53.1	54.9	61.8	70.0	67.8
Mallaig-Lochboisdale ^{13, c}	CalMac	-	-	-	-	-	0.1	0.4	0.4	8.3	11	8.3
Oban-Coll/Tiree/Castlebay ^a	CalMac	2.3	2.8	2.3	2.5	2.6	2.6	2.6	2.5	1.8	1.9	1.6
Oban-Colonsay ^b	CalMac	4.5	4.4	4.6	4.3	4.3	4.8	4.4	4.2	4.5	4.9	5.1
Oban-Lismore ^c	CalMac	2.2	2.5	2.8	2.7	3.1	3.1	3.4	3.8	5.8	6.7	6.7
Oban-Castlebay- Lochboisdale ^a	CalMac	13.6	18.3	18.0	19.3	18.6	17.9	18.4	18.0	15.7	17.1	20
Oban-Coll/Tiree ^a	CalMac	13.0	15.8	15.6	15.2	15.9	16.0	15.7	15.8	17.8	18.8	18
Oban-Craignure ^c	CalMac	110.1	114.3	108.5	108.9	105.8	109.9	112.6	115.4	162.3	168.1	164
Ottemish-Leverburgh ^{3, c}	CalMac	..	..	..	..	..	..	..	..	..	..	..
Raasay-Sconser ^c	CalMac	22.9	22.9	21.2	19.0	19.8	20.1	19.2	20.3	25.2	29.2	29.9
Tayinloan-Gigha ^b	CalMac	13.7	14.5	14.2	12.7	12.7	14.3	15.8	15.7	17.5	19.5	20.7
Tobermory-Kilchoan ^c	CalMac	5.4	6.1	5.6	5.3	5.2	5.3	5.5	6.1	10.6	11.7	11.6
Uig-Tarbert-Lochmaddy ^{2, a}	CalMac	57.0	69.8	67.9	67.6	69.8	72.0	76.1	74.8	74.7	78.2	76.7
Ullapool-Stornoway ^a	CalMac	48.8	66.7	67.6	67.8	67.2	68.6	70.3	72.0	86.2	92.1	94.7
Total West Coast		481.7	546.7	527.7	530.0	524.8	544.3	562.6	570.0	672.5	719.0	722.0
North ^{8, 12}												
Aberdeen - Kirkwall ^{7, 8, 9}	Serco Northlink	4.9	5.3	4.9	5.0	4.6	4.8	4.2	4.5	4.5	4.6	5.1
Aberdeen - Lerwick ^{8, 9}	Serco Northlink	16.7	16.7	17.4	17.2	16.3	16.9	16.6	17.4	17.9	18.3	20.0
Aberdeen - Storness ^{7, 8, 9}	Serco Northlink	..	..	..	..	..	..	..	..	..	..	..
Lerwick - Kirkwall ^{8, 9}	Serco Northlink	2.3	2.3	2.4	2.4	2.3	2.2	2.4	2.5	2.7	3.2	3.1
Scrabster - Stromness ^{8, 9}	Serco Northlink	43.9	43.5	39.4	38.0	38	31.7	32.1	34.1	37.7	40.9	43.2
Total North		67.8	67.8	64.1	62.6	61.2	55.6	55.3	58.5	62.8	67.0	71.5
Total		1,181.2	1,250.4	1,								

Table 9.15 (Continued) Traffic on subsidised ferry services

Route		Commercial Vehicles and Buses										
		2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Clyde ¹²		<i>thousand</i>										
Ardrossan-Brodick ^C	CalMac	12.5	11.6	13.2	11.4	12.0	12.4	12.1	9.2	10.7	10.4	10.0
Ardrossan-Campbeltown ^{11,C}	CalMac	..	..	..	..	..	0.2	0.4	0.2	0.2	0.1	0.1
Colintraive-Rhubodach ^C	CalMac	17.5	15.7	14.9	15.0	14.1	12.9	12.4	11.6	9.2	8.2	8.5
Gourock-Dunoon ^{5,6}	CalMac	..	..	..	..	..	..	..	..	..	..	..
Gourock-Dunoon ⁶	Cowal Ferries	3.9	3.8	3.5	1.5	..	..	..	..	..	..	..
Gourock-Dunoon ⁶	Argyll Ferries	..	..	..	..	..	..	..	..	..	..	..
Largs-Cumbræ ^C	CalMac	6.6	5.3	5.0	5.4	5.6	6.8	6.2	6.5	4.2	4.2	4.4
Lochranza-Tarbet/Claonaig ^{1,C}	CalMac	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5
Tarbert-Portavadie ^C	CalMac	0.5	0.7	0.5	0.6	0.6	0.5	0.4	0.7	0.5	0.5	0.5
Wemyss Bay-Rothesay ^C	CalMac	14.1	12.1	12.6	14.1	14.2	13.2	13.7	11.9	8.9	9.5	9.2
Other		..	..	..	..	..	..	..	..	..	..	..
Total Clyde		55.6	49.7	50.3	48.5	47.1	46.3	45.6	40.5	34.1	33.3	33.2
West Coast ¹²												
Ardmhor (Barra) to Eriskay ^C	CalMac	1.3	1.5	1.5	1.3	1.4	1.2	1.3	1.3	1.3	2.0	2.1
Berneray-Leverburgh ^{3,C}	CalMac	2.1	2.2	1.9	2.2	2.0	1.9	1.3	1.8	1.1	1.4	1.4
Fionnphort-Iona ^C	CalMac	0.9	0.9	1.0	0.9	0.9	1.1	0.9	1.2	0.9	0.9	0.8
Fishnish-Lochaline ^C	CalMac	4.0	3.5	3.8	3.8	4.5	4.0	3.4	3.7	2.8	2.1	3.1
Kennacraig-Islay/C'say/Oban b	CalMac	0.5	0.4	0.4	0.6	0.6	0.6	0.6	0.8	0.9	0.8	0.6
Kennacraig-Islay ^b	CalMac	10.0	9.7	9.8	10.9	12.4	10.3	10.8	10.8	11.4	11.6	12.5
Mallaig-Eigg/Muck/Rum/Canna C	CalMac	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
Mallaig-Armadale ^C	CalMac	1.9	1.6	1.9	1.9	2.2	2.5	2.5	2.7	2.2	2.5	2.5
Mallaig-Lochboisdale ^{13,C}	CalMac	-	-	-	-	-	0.02	0.04	0.03	0.6	0.5	0.5
Oban-Coll/Tiree/Castlebay a	CalMac	0.3	0.4	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.2	0.2
Oban-Colonsay b	CalMac	0.3	0.3	0.3	0.3	0.4	0.3	0.2	0.1	0.2	0.2	0.2
Oban-Lismore C	CalMac	0.6	0.5	0.6	0.6	0.6	0.5	0.5	0.6	0.5	0.7	0.7
Oban-Castlebay- Lochboisdale ^a	CalMac	1.1	1.2	1.3	1.3	1.3	1.3	1.4	1.3	1.1	1.2	1.4
Oban-Coll/Tiree ^a	CalMac	1.7	1.9	1.8	2.2	1.7	1.6	1.7	1.7	1.7	1.8	1.7
Oban-Craignure ^C	CalMac	10.9	10.6	11.2	11.3	12.2	10.9	10.7	10.6	9.3	9.7	8.9
Ottemish-Leverburgh ³	CalMac	..	..	..	..	..	..	..	..	..	..	..
Raasay-Sconser ^C	CalMac	1.5	1.2	1.5	1.1	1.3	1.0	0.5	0.6	0.7	1.0	0.5
Tayinloan-Gigha ^b	CalMac	1.4	1.6	1.6	1.4	1.4	1.3	1.1	1.2	1.1	1.2	1.2
Tobermory-Kilchoan C	CalMac	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.05	0.02	0.04	0.1
Uig-Tarbert-Lochmaddy ^{2,a}	CalMac	7.2	6.9	7.7	8.0	6.7	6.0	6.2	6.1	6.2	6.0	6.2
Ullapool-Stornoway ^a	CalMac	12.7	13.6	14.1	15.9	13.2	12.3	13.0	11.6	12.9	13.0	12.9
Total West Coast		58.5	58.1	61.2	64.2	63.4	57.6	56.8	56.8	55.4	57.0	57.7
North ^{8,10,12}												
Aberdeen - Kirkwall ^{7,8,9}	Serco Northlink	..	..	..	..	..	0.02	0.02	0.03	0.02	0.02	0.01
Aberdeen - Lerwick ^{8,9}	Serco Northlink	..	..	..	..	..	0.1	0.1	0.1	0.1	0.1	0.1
Aberdeen - Stromness ^{7,8,9}	Serco Northlink	..	..	..	..	..	..	..	..	..	..	..
Lerwick - Kirkwall ^{8,9}	Serco Northlink	..	..	..	..	..	0.1	0.1	0.1	0.1	0.1	0.1
Scrabster - Stromness ^{8,9}	Serco Northlink	..	..	..	..	..	0.2	0.2	0.2	0.2	0.3	0.3
Total North		0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.4	0.4	0.6	0.5
Total subsidised routes		114.1	107.8	111.6	112.8	110.5	104.3	102.9	97.7	89.9	90.9	91.4

Source: Ferry operators - Not National Statistics

- Seasonal carryings.
 - These figures are an aggregate of the Uig-Tarbert-Lochmaddy, Uig-Lochmaddy, Uig-Tarbert & Tarbert-Lochmaddy routes.
 - Berneray-Leverburgh replaced the Ottemish-Leverburgh service and started in 2002.
 - Ballycastle-Rathlin was operated by CalMac prior to April 2007
 - This route was out of service between March 2003 and June 2003.
 - Cowal Ferries operated the Gourock-Dunoon route from October 2006 until June 2011 when Argyll Ferries took over operation and carry passengers only. It is not possible to split passenger figures for 2011 between the two operators.
 - The Aberdeen to Stromness route changed to Aberdeen to Kirkwall in October 2002 but the figures provided by the company for 2002 did not distinguish between the two.
 - P & O Scottish Ferries stopped operating these services on 30 September 2002. NorthLink Orkney & Shetland Ferries Ltd operated from 1 October 2002 until 6 July 2006; NorthLink Ferries Ltd operated from 6 July 2006 until 5 July 2012; Serco NorthLink Ferries operated from 5 July 2012 to date.
 - Years prior to 2006 covered the period 1 October to 30 September. Figures for 2006 relate to a financial year beginning 1 April. Figures for 2007 onwards relate to an operating year from July to June. Day charters and livestock specials are included in the figures for some routes.
 - Only coaches and mini-buses are included under this heading. The number of vehicles are no longer available prior to 2013 due to a change in the method of collecting the data.
 - Route commenced May 2013.
 - Figures are for calendar years.
 - Between 2013 and 2015 route operated as pilot scheme on Tuesday and Saturday during winter timetable. Full service started Summer 2016
- a. Road Equivalent Tariff (RET) was introduced on these routes in October 2008
b. Road Equivalent Tariff (RET) was introduced on these routes in October 2012
c. Road Equivalent Tariff (RET) was introduced on these routes in October 2015

Table 9.16 Traffic on other major ferry routes

Route	Passengers											
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
	<i>thousands</i>											
Western Ferries ²												
Gourock-Dunoon	1,308.5	1,336.2	1,313.8	1,332.7	1,389.3	1,342.7	1,347.2	1,331.1	1,341.0	1,353.7	1,372.7	
Strathclyde Partnership for Transport												
Renfrew - Yoker ⁷	141.4	147.8	..	..	..	..	..	..	..	..	..
Gourock - Kilcreggan ⁸	70.0	71.6	63.5	57.7	52.6	57.0	54.4	53.6	55.5	41.2	42.9	
Total	211.4	219.4	63.5	57.7	52.6	57.0	54.4	53.6	55.5	41.2	42.9	
Argyll & Bute Council												
Appin-Lismore ⁹	40.2	39.0	38.2	33.4	37.3	44.4	40.2	39.1	45.7	44.0	41.4	
Islay - Jura	72.4	69.1	65.8	71.3	70.2	62.8	67.7	68.1	68.0	72.3	69.6	
Cuan-Luing ^{3,9}	14.6	13.9	16.3	16.0	17.7	16.1	14.4	17.1	21.3	15.3	16.1	
Seil-Easdale ⁹	14.4	16.0	15.0	13.1	14.4	15.1	15.9	16.9	14.5	12.6	11.8	
Total	141.6	138.0	135.3	133.8	139.6	138.4	138.2	141.2	149.5	144.2	138.9	
Highland Council												
Ardgour-Nether Lochaber (Corran Ferry) ⁴	..	..	..	..	..	560	566	557	572	580	590
Camusnagaul - Fort William ⁵	1.0	3.9	4.4	3.0	5.1	10.3	10.0	11.2	8.9	8.4	8.3	
Total ¹⁸	1.0	3.9	4.4	3.0	5.1	10.3	10.0	11.2	8.9	8.4	8.3	
West Highland Seaways ¹²												
Gairloch (Wester Ross) - Portree (Skye)	..	..	..	..	..	..	..	..	..	..	..
Bruce Watt Cruises ¹⁷												
Mallaig-Loch Nevis	4.9	3.3	3.0	4.9	4.6	-	-	-	-	-	-	
Orkney Ferries ¹												
Houton - Lyness/Flotta	76.2	76.0	78.8	81.7	77.1	79.3	77.5	77.7	81.6	84.1	79.1	
Tingwall - Rousay/Egilsay/Wyre	55.0	60.6	58.8	58.4	56.3	58.8	54.8	55.0	53.6	57.5	60.3	
Kirkwall - Shapinsay	65.2	69.9	64.2	67.0	68.7	65	64.9	58.7	62.7	61.2	65.7	
Kirkwall - Westray/Stronsay	102.1	102.0	105.8	104.6	108.6	99.3	96.6	97.4	103.5	101.7	104.7	
Stromness-Hoy/Graemsay	20.5	21.1	23.1	26.2	24.9	26	26.5	26.4	27.8	26.9	29.1	
Total	319.0	329.5	330.7	337.8	335.6	328.4	320.3	315.2	329.2	331.4	338.9	
Shetland Islands Council ¹												
Laxo or Vidlin - Symbister	170.9	166.2	164.0	169.0	173.1	166.1	165.8	163.4	169.8	162.6	161.0	
Toft - Ullsta	248.8	264.4	272.0	254.0	269.3	280.9	270.0	261.1	273.2	273.1	265.4	
Bluemull ¹¹	..	..	..	..	172.1	159.3	152.7	137.8	146.94	151.7	147.7
Lerwick - Bressay ⁶	214.4	205.9	189.0	192.0	196.8	170.9	173.0	170.7	176.3	181	181.4	
Gutcher - Oddsta ¹⁰	..	..	..	..	..	..	..	..	..	..	..
Vidlin/Lerwick - Skerries	..	..	..	..	..	..	..	5.5	5.15	4.5	4.4
West Burraferth - Papa Stour	..	..	..	..	..	..	..	3.0	2.81	2.6	2.7
Fair Isle - Grutness/Lerwick	..	..	..	..	..	..	..	0.5	0.71	0.64	1.4
Total	634.1	636.5	625.0	615.0	811.3	777.1	761.5	742.0	774.9	776.1	763.9	
Cromarty Ferry Company												
Cromarty-Nigg	..	..	..	..	..	..	..	..	..	..	..
Total all routes	2,620.6	2,666.8	2,475.6	2,484.9	2,738.1	2,653.9	2,631.6	2,594.3	2,659.0	2,655.0	2,665.6	
	<i>thousands</i>											
	Cars *											
Route	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Western Ferries												
Gourock-Dunoon	588.0	584.0	564.2	577.9	605.5	578.5	590.0	599.6	608.0	621.8	634.3	
Argyll & Bute Council												
Islay - Jura	23.9	26.5	23.9	22.8	22.5	22.2	23.7	23.5	25.9	27.3	26.7	
Cuan-Luing ^{3,9}	7.7	7.2	7.0	7.1	7.2	5.8	5.6	7.4	11.3	8.3	8.6	
Total	31.6	33.7	30.9	29.9	29.7	28.0	29.3	30.9	37.2	35.6	35.3	
Highland Council												
Ardgour-Nether Lochaber (Corran Ferry)	245.0	249.4	221.4	242.0	238.5	234.7	247.4	247.2	251.0	257.5	261.1	
Orkney Ferries ^{1,13}												
Houton - Lyness/Flotta	18.2	19.3	19.0	17.8	15.9	15.6	14.8	15.4	16.2	17.6	17.4	
Tingwall - Rousay/Egilsay/Wyre	9.2	9.8	10.2	9.1	10.4	9.4	10.7	10.2	8.8	9.43	10.6	
Kirkwall - Shapinsay	8.0	7.8	7.5	7.2	8	7.8	8.1	8.0	7.9	8.2	8.5	
Kirkwall - Westray/Stronsay	20.9	21.1	21.4	21.3	20.8	19.5	20.4	21.1	22.7	22.5	22.9	
Total	56.3	58.0	58.1	55.5	55.1	52.3	54.0	54.7	55.6	57.7	59.4	
Shetland Islands Council ¹												
Laxo or Vidlin - Symbister	73.3	74.3	72.2	78.0	77.9	77.8	75.6	78.7	81.9	81.9	76.0	
Toft - Ullsta	116.7	123.8	129.2	134.0	130.6	138.1	126.9	139.6	147.3	150.6	136.4	
Bluemull ¹¹	..	..	..	..	88.8	78.3	73.9	78.2	84.5	85.3	77.8
Lerwick - Bressay	67.9	67.5	66.4	70.0	66.5	65.2	64.6	65.9	69.5	71.2	63.4	
Gutcher - Oddsta ¹⁰	..	..	..	..	..	..	..	..	..	..	..
Vidlin/Lerwick - Skerries	..	..	..	..	..	..	..	2.7	2.5	2.3	2.0
West Burraferth - Papa Stour	..	..	..	..	..	..	..	1.3	1.3	1.1	1.2
Fair Isle - Grutness/Lerwick	..	..	..	..	..	..	..	0.2	0.2	0.1	0.1
Total	257.9	265.6	267.8	282.0	363.8	359.4	341.0	366.6	387.1	392.4	356.9	
Cromarty Ferry Company												
Cromarty-Nigg	..	..	..	..	..	..	..	..	..	..	..
Total all routes	1,178.8	1,190.7	1,142.4	1,187.2	1,292.6	1,252.9	1,261.7	1,299.0	1,338.9	1,365.1	1,347.0	

Table 9.16 (continued) Traffic on other major ferry routes

Route	Commercial Vehicles and Buses *										
	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<i>thousands</i>											
Western Ferries											
Gourock-Dunoon ¹⁴	32.2	33.8	33.0	37.9	40.0	37.9	37.9	34.9	33.8	37.6	36.3
Argyll & Bute Council ⁹											
Islay - Jura	4.6	2.5	2.6	3.2	2.8	1.6	3.3	4.4	5.7	5.8	4.7
Cuan-Luing ⁹	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6	0.3	0.4	0.5
Total	4.9	2.8	2.9	3.5	3.1	1.9	3.6	5.0	6.0	6.2	5.2
Highland Council											
Ardgour-Nether Lochaber (Corran Ferry)	17.1	16.9	14.4	12.5	14.3	11.3	11.8	11.4	11.5	12.6	11.1
Orkney Ferries ^{1,13}											
Houton - Lyness/Flotta	4.9	5.3	5.4	6.0	7.4	8.5	9.0	9.0	9.4	9.9	10.7
Tingwall - Rousay/Egilsay/	4.7	6.7	6.7	6.8	4.9	4.9	4.5	4.8	4.7	4.6	5.3
Kirkwall - Shapinsay	3.6	4.7	4.7	4.9	4.4	4.3	3.3	3.1	3.2	3.4	3.9
Kirkwall - Westray/Stronsa	11.7	12.7	13.8	13.5	15.7	13.8	13.1	13.1	14.4	13.8	14.2
Total	24.9	29.4	30.6	31.2	32.3	31.5	29.9	30.0	31.7	31.5	34.1
Shetland Islands Council ¹											
Laxo or Vidlin - Symbister	3.6	3.3	4.0	4.3	4.0	2.2	2.9	..	..	2.0	1.9
Toft - Ulsta	9.8	10.3	7.3	7.6	12.6	9.0	12	..	..	12.6	9.5
Gutcher - Belmont ¹¹	..	..	..	..	7.2	3.9	6.4	..	..	3.7	4.1
Lerwick - Bressay	2.2	2.0	3.7	3.5	4.7	2.5	4	..	..	2.2	2.2
Gutcher - Oddsta ¹⁰	..	..	..	..	..	..	..	..	..	..	..
Total	15.6	15.6	15.0	15.4	28.5	17.6	25.3	0.0	0.0	20.5	17.7
Total all routes	94.7	98.4	95.9	100.4	118.2	100.1	108.5	81.3	83.0	108.4	104.4

Source: Ferry companies - Not National Statistics

*. Only routes which carry cars / commercial vehicles are shown in the relevant part table.

- In addition to the routes shown in this table, there are some other routes, which have less traffic, for which the number of passengers and vehicles are included in the totals for the operator which appear in table 9.14.
- Passenger numbers prior to 1999 are based on paying passengers, but from 1999 numbers are based on a head count. There were 793,600 paying passengers in 1999.
- Figures for 2000 and 2001 are estimates.
- As foot passengers carried on the Corran Ferry travel for free, exact numbers are not recorded. However, an estimate of the number is included in the table.
- Until 25 October 1999 this service carried pupils going to Lochaber High School. A bus service now operates to carry school pupils, which mainly accounts for the drop in passenger numbers from 1999 to 2000. Since 2006 this has carried pupils from Fort William who attend Ardnarmurchan High School.
- Passenger numbers in 1999 are high because of special events such as the Tall ships race.
- Figures relate to financial years which start in the specified calendar year (e.g. the 1998 figure is for 1998-99). Comparable figures prior to 1998-99 are not available, because before then the numbers of passengers were counted exclusive of ZoneCard ticket holders (and therefore passengers who had a ZoneCard were not counted). SPT no longer operates the Renfrew-Yoker ferry (Clydelink have run this service commercially since April 2010).
- Since 2001 the Gourock-Kilcreggan route has been tendered by Strathclyde Passenger Transport (SPT), and operated under contract by Clyde Marine and more recently by Clydelink. The SPT changed its name to Strathclyde Partnership for Transport in April 2006. It was a Caledonian MacBrayne route in previous years, so figures for 2001 and earlier years appear in table 9.14. Figures relate to financial years which start in the specified calendar year (e.g. the "1998" figure is for 1998-99).
The figure for 2012/13 is based on 13 x 4 weekly periods and spans 25/03/2012 - 23/03/2013. From 2012/13 Clydelink operate this service.
Also, the link to Helensburgh on this route has been removed from 2012/13 and as reported in the SPT Monitoring Report, this previously accounted for approximately 4,200 passenger trips per annum. The figure for 2013/14 continues to be based on 13 x 4 weekly reporting periods (year ending 22/03/2014) and while Clydelink continued to operate this service for 2013/14, Clyde Marine operated the summer Sunday only service between 31 March 2013 and 19 October 2013. The figure for 2014/15 continues to be based on 13 x 4 weekly reporting periods (year ending 21/03/2015) and is still operated by Clydelink. The Sunday summer service expired in October 2014.
The figures for 2014/15, 2015/16, 2016/17, 2017/18 and 2018/19 continue to be based on 13 x 4 weekly reporting periods (year ending 16/03/2019 for year 2018/19). Clydelink operated this service until 12/05/2018. Clyde Marine Services Ltd have operated this service from 14/05/2018.
- 2004 is the first full calendar year of the electronic ticketing system and the statistics quoted for the Cuan, Easdale and Appin Services reflect the more accurate counting method.
- Since 2008, there have been no fares charged on this route. This route is now Gutcher Hamarsness
- From 2008 to 2011 there were no fares charged on this route. They were reintroduced in 2012. Figures for Gutcher/Belmont to Hamarsness are included in these figures
- The Gairloch to Portree service operated by West Highland Seaways was withdrawn from 22 August 2004.
- Separate figures for cars/buses and commercial vehicles are only available for some Orkney Ferries services for recent years. Prior to that, only the total number of vehicles carried is available.
- The operator indicated that the figure provided for buses and commercial vehicles in 2002 may not be directly comparable with previous years.
Figures for 2003 onwards are not comparable with earlier years.
- Only coaches and mini-buses are included under this heading for 2003.
- Data for Pentland Ferries is not available
- Bruce Watt cruises no longer operates due to retirement.
- Figures for passenger numbers on the Corran ferry service have not been included in the total for Highland Council as the figures are new estimates and considered as 'data under development'.

Figure 9.6 Top passenger ferry routes within and to/from Scotland, 2018

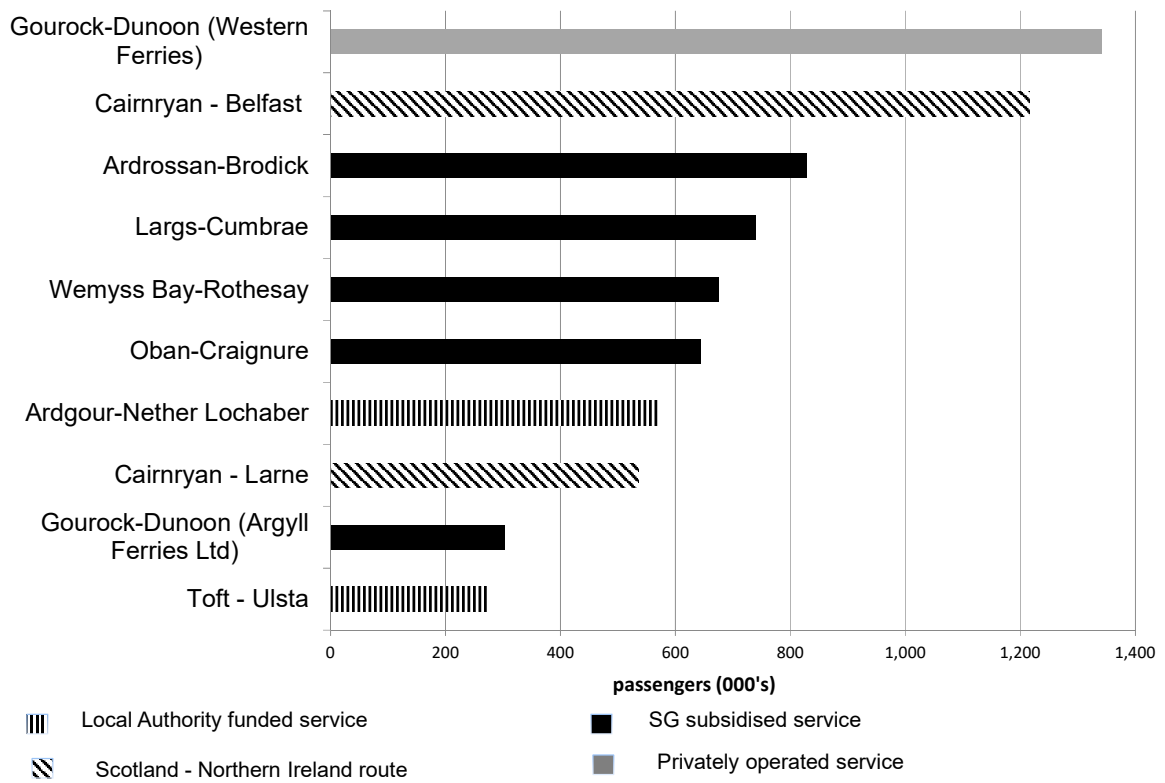


Figure 9.7 Top car ferry routes within and to/from Scotland, 2018

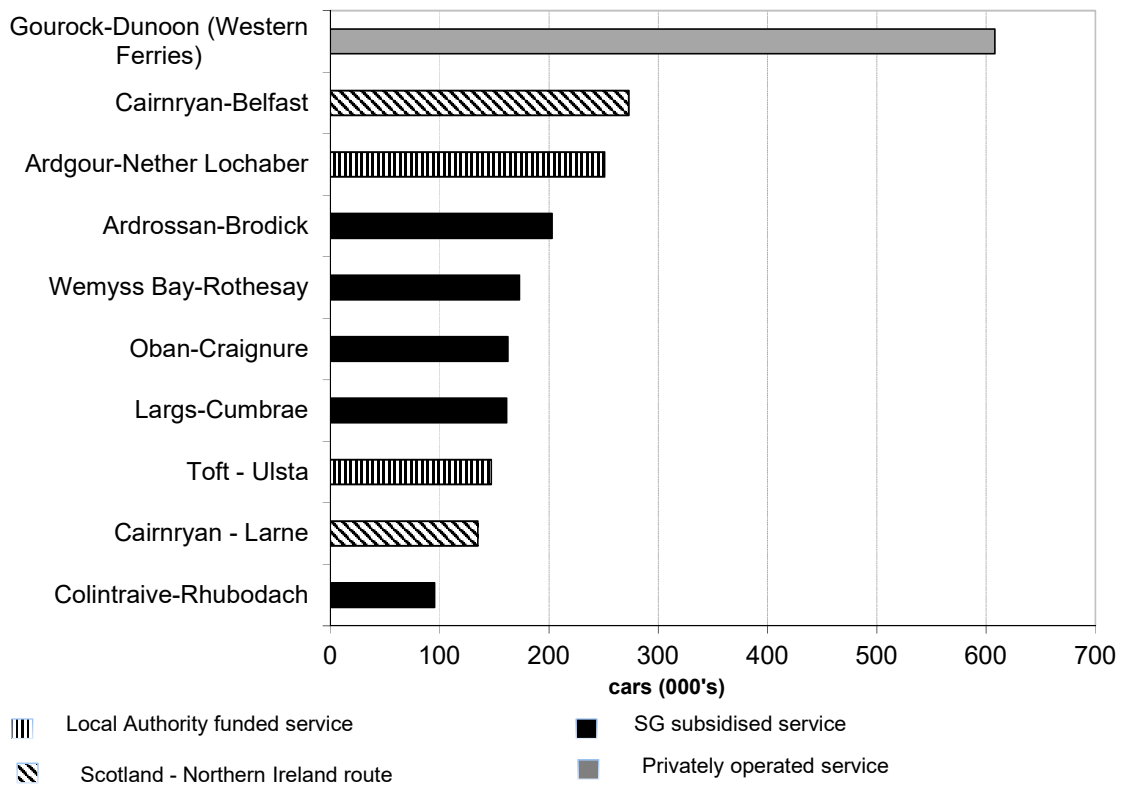


Table 9.17 Reliability and punctuality of lifeline ferry services

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	-09	-10	-11	-12	-13	-14	-15	-16	-17	-18	-19
Caledonian MacBrayne											
	<i>numbers</i>										
Scheduled sailings ¹	131,639	131,103	131,317	131,209	131,334	133,477	134,665	133,391	135,680	135,076	144,770
	<i>percentages</i>										
Reliability ²	100.0	99.9	99.8	99.9	99.9	99.9	99.9	99.6	99.9	99.5	99.5
Punctuality ³	99.9	99.9	99.9	99.8	99.8	99.8	99.8	99.7	99.7	99.8	99.6
NorthLink ⁴											
	<i>numbers</i>										
Scheduled sailings ¹	3,247	3,232	3,270	3,308	3,151	2,886	2,868	2,915	2,931	2,989	2,991
	<i>percentages</i>										
Reliability / Punctuality											
Aberdeen routes	99.9	99.9	99.8	99.8	99.8	99.8	99.7	99.9	99.9	99.9	100
Pentland Firth	98.9	98.9	99.3	99.1	99.5	92.1	100	99.5	100	99.9	100

Source: Scottish Government - Not National Statistics

1. Timetabled sailings but excluding any additional sailings operated by CalMac.
2. New performance measure for 2003-2004 covering the number of timetabled sailings actually operated taking account of any relief events agreed by the Scottish Executive - for example, sailings which were cancelled due to bad weather; in accordance with safety procedures; delays due to the availability or operational restrictions of harbour facilities, or having to wait for the arrival of other public transport connections
3. Covers CalMac's punctuality performance against its published timetable taking account of any relief events. Performance measure was previously called Quality of Service.
4. NorthLink Orkney and Shetland Ferries Ltd started operating its services on 1 October 2002. Its figures for 2002-03 therefore cover only a period of six months. NorthLink Ferries Ltd started operating its services on 6 July 2006 and includes freight services for the first time. The figures for 2007-08 relate to the 2007 calendar year. The reliability figures include services cancelled due to circumstances beyond the operators control, such as adverse weather, for which the operator can claim relief. From October 2002, the punctuality figures relate to services arriving within 20 minutes of the published timetable on the Pentland Firth services and within 90 minutes on the Aberdeen, Kirkwall and Lerwick passenger services. The punctuality figures include services delayed due to circumstances beyond the operators control, such as adverse weather, for which the operator can claim relief. From July 2006, the punctuality figures relate to services arriving within 10 minutes of the published timetable on the Pentland Firth services, within 30 minutes on the Aberdeen, Kirkwall and Lerwick passenger services and within 45 minutes on the Aberdeen, Kirkwall and Lerwick freight services. The punctuality figures include services delayed due to circumstances beyond the operators control, such as adverse weather, for which the operator can claim relief. Northlink Ferries Ltd operated until 5 July 2012 and Serco Northlink Ferries took over on 5 July 2012.

Table 9.18 HM Coastguard statistics: Search and rescue operations (Scotland)

Type of callout	2008 ¹	2009 ¹	2010 ¹	2011 ¹	2012 ¹	2013 ¹	2014 ¹	2015 ^{1,2}	2016 ²	2017 ²	2018 ²
Assistance rendered	..	..	..	..	..	..	..	..	..	..	..
Assistance not rendered	..	..	..	..	..	..	..	..	..	..	..
Hoax	56	89	62	41	57	60	45	16	14	12	16
Total incidents	3,583	3,765	3,669	3,910	3,283	3,422	3,364	2,538	2,464	2,720	2,627
Coastguard rescue team callouts	..	..	..	..	..	..	..	..	..	..	..
Number of persons assisted	..	..	..	..	..	..	..	..	..	..	..
Number of persons rescued	..	..	..	..	..	..	..	..	..	..	..
Lives lost	..	..	..	..	..	..	..	..	..	..	..

Source: Maritime and Coastguard Agency - Not National Statistics.

1. Due to 'Industrial action short of a strike' undertaken by Coastguard staff during 2007 to 2014, the Maritime and Coastguard Agency is unable to provide full incident details for 2007 to 2014. The figures provided are provisional - they have not been audited.
2. Figures prior to 2015 are not comparable due to changes in methodology for collecting the figures.

Chapter 10: Transport and Travel Finance in Scotland

- Transport expenditure • Motorways and trunk roads • Local Authority revenue and capital income
- Government grants • Petrol and diesel prices and duties • Average weekly household expenditure on transport.

£2,096 million

was spent by **Scottish Government and Transport Scotland** on transport in 2018/19

£822 million

was spent by **Local Authorities** on transport in the same period.

£44 million income to **Local Authorities** from parking charges in 2018

14% of **household spending** was on transport and travel between 2016-18



£580m by Scottish Government on trunk roads



£195m by Local Authorities on road maintenance



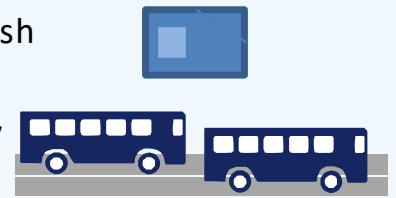
£63m by Local Authorities on road lighting



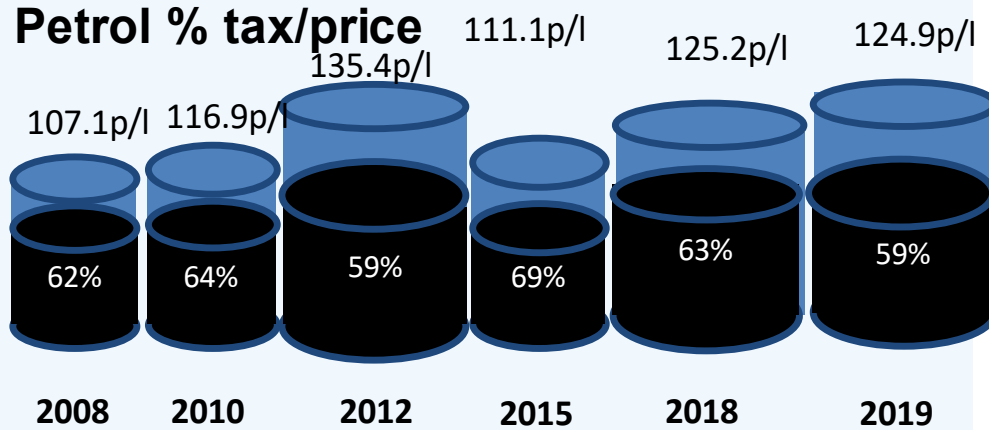
£756m by Scottish Government on rail services



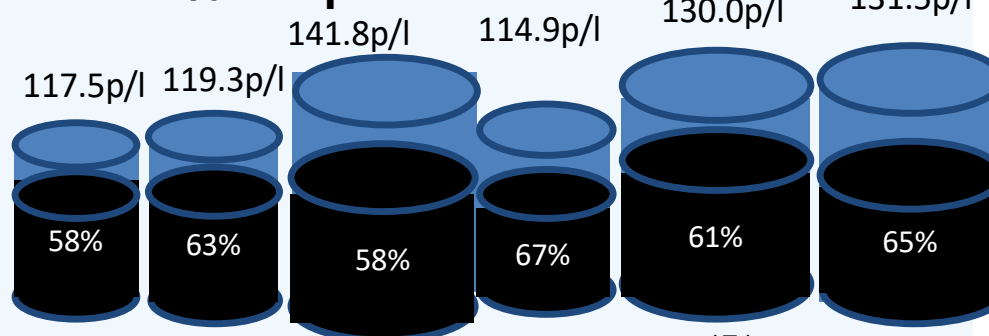
£207m by Scottish Government on the National Concessionary Travel Scheme



Petrol % tax/price



Diesel % tax/price



5.2p rise in petrol prices between Jan and Dec 2019



0.5p rise in diesel prices over the same period



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FINANCE

1. Introduction

1.1 This chapter provides information on finance, such as expenditure on transport within Scottish Ministers' responsibility and on transport controlled by Local Authorities. It shows capital and current expenditure on motorways and trunk roads, Local Authority revenue and capital income and expenditure on roads and transport, government grants for the construction and improvement of harbour facilities, petrol and diesel prices and duties, and average weekly household expenditure on transport.

1.2 Almost all the figures in this chapter are expressed in what are referred to as current, out-turn or cash prices: no table gives constant price (i.e. deflated) figures.

Key points

- **Scottish Government (including Transport Scotland) spent £2,096 million on transport in 2018/19. Local Authorities spent a further £822 million.**
- **Personal spend on transport and travel accounted for 14% of household spending between 2016 and 2018.**
- **In 2019 petrol prices started at 119.5 pence per litre in January before rising to 124.7 pence in December. However, diesel prices rose slightly in 2019 from 129.3 in January to 129.8 pence by December.**

2. Main Points

Motorways & Trunk Roads

2.1 The total of capital and current expenditure on motorways and trunk roads in 2018-19 was estimated at £580 million, £40 million (6%) less than the 2017/18 figure, with less expenditure on the Forth Replacement Crossing. Total expenditure on transport within Scottish Ministers' responsibility in 2018-19 was budgeted at £2,096 million, £29 million (1%) less than in the previous year. (*Table 10.1*)

2.2 Expenditure on the management and maintenance of the trunk road network totalled £202m in 2017-18. The expenditure is split £13.4m on capitalised maintenance and £188.4m on routine and winter maintenance, network management and network strengthening. (These figures do not include spending on new construction). (*Table 10.2*)

Local Authorities

2.3 In 2018-19, net revenue expenditure on transport controlled by local authorities was £379 million. In cash terms, this was 12 per cent less than in 2017-18. Road maintenance (£195 million in 2018-19) accounted for 51% of the expenditure. The other main categories of expenditure in 2018-19 were:

- contributions to passenger transport (excluding concessionary fares) - £109 million;
- road lighting - £63 million;
- network and traffic management (excluding school crossing patrols) - £33 million;
- In 2018-19, the net income from parking charges was £44 million, 7% more than 2017-18. (*Table 10.1*)

2.4 The Local Authorities with the highest net revenue expenditure on roads and transport (excluding loan charges) in 2018-19 were: Highland, (£33.5 million), Fife (£28.4 million), North Lanarkshire (£25.1 million), and South Lanarkshire (£23.6 million). (*Table 10.3*) The table also shows local authorities' figures for other types of expenditure in 2018/19:

- **Road maintenance/Winter maintenance** Highland had the highest expenditure on road maintenance (£19.2 million), followed by Fife (£14.3 million). Highland spent the most on winter maintenance (£8.1 million).
- **Contributions to Public Transport** in terms of the total net revenue expenditure on 'local authority' and 'non LA' public transport, Shetland Islands (£12.9 million) made the largest contributions to passenger transport. Fife spent £9.7 million.
- **Road Lighting** Glasgow spent most on road lighting (£10 million), followed by North Lanarkshire (£4.8 million).
- **Parking** Edinburgh had the largest net income from parking (£24.1 million) followed by Glasgow at £12.8 million.

Gross Capital Expenditure

2.5 Gross capital account expenditure by councils and boards on local authority roads and transport totalled £462 million in 2018-19, 15% more than the previous year. Of this total £309 million was spent on roads and £79 million on other public transport. (*Table 10.4*)

2.6 The local authorities with the highest gross capital account expenditure on roads and transport in 2018-19 were: Aberdeenshire (£39.2 million) and Highland (£33.6 million). Highland spent the most on roads (£25.9 million) followed by South Lanarkshire (£25.1 million). (*Table 10.5*)

2.7 The **National Concessionary Travel** (NCT) bus scheme was introduced in April 2006 and is administered by Transport Scotland for Scotland as a whole. Previously local authorities administered their own schemes, therefore local expenditure on concessionary travel (and therefore overall totals of spend) shown in Table 10.3 will be greatly reduced from previous years, now only covering rail, subway, ferry and some taxi schemes. Further statistics on concessionary travel can be found in table 11.29.

Travel Costs

2.8 Between 2018 and 2019 the average price of unleaded petrol decreased by 0.3 pence, and diesel increased by 1.5 pence per litre in Great Britain. In 2019, petrol prices increased by 5.2 pence between January and December and diesel prices increased by 0.5 pence over the same period. Tax (duty plus VAT) represented 59% of the price for unleaded petrol and 65% of the price for diesel in Great Britain in 2019, compared with 62% for unleaded petrol and 58% for diesel in 2008. (*Table 10.6*)

2.9 The UK Retail Prices Index (RPI) rose by 31% between 2008 and 2018. Most of the Transport components of the RPI increased more rapidly than this, and therefore rose in real terms. In cash terms, the costs of the maintenance of motor vehicles increased by 35%, petrol and oil by 16% and there was a 163% rise in the cost of vehicle tax and insurance. However, the cost of purchasing a motor vehicle fell by 1% in cash terms over the last ten years. As a result, motoring expenditure index rose by 32%, slightly higher than the 31% increase in the RPI and therefore a slight real term rise between 2008 and 2018. Over the same period, fares and other travel costs rose by 52% in cash terms - rail fares by 49% and

bus and coach fares by 67%, increases of 18% and 35% above general inflation. (*Table 10.7*)

2.10 Average weekly household expenditure in Scotland on transport and vehicles in 2016-18 was £68.20, representing 13.9% of total household expenditure. On average, £23.50 was spent on the purchase of vehicles, £27.00 on the operation of personal transport (including £18.40 on petrol, diesel and other motor oils) and £17.70 on transport services (such as bus and train fares). (*Table 10.8*)

Table 10.1 Expenditure on transport within the Scottish Ministers' responsibility, and local government expenditure on Roads and Transport

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	-09	-10	-11	-12	-13	-14	-15	-16	-17	-18	-19
Expenditure on transport within the Scottish Ministers' responsibility											
<i>£ million at outturn prices</i>											
Motorways and trunk roads											
Capital ¹											
- New construction and improvements ¹	166	258	207	45	47	101	76	184	320	184	158
- Forth Replacement Crossing	22	30	30	152	242	193	232	217	114	74	17
- Capital maintenance ²	30	31	29	18	12	10	8	14	-	7	5
Total	218	319	266	215	301	304	316	415	434	265	180
Current											
- Routine and winter maintenance etc	73	75	101	69	75	73	78	79	73	93	96
- Network Strengthening and Improvements ³	114	111	105	85	77	85	71	72	115	119	129
- Other	-	-	-	-	32	21	18	18	18	33	53
- Design, build, finance, operate payments	32	32	36	54	57	59	68	80	73	110	122
Total	219	218	242	208	241	238	235	249	279	355	400
Total capital and current (a)	437	537	508	423	542	542	551	664	713	620	580
Central Government support to transport industries ¹²											
Highlands and Islands Airports Ltd	26	26	25	27	23	21	34	38	25	29	28
Caledonian MacBrayne Ltd	51	56	59	68	74	86	107	123	134	131	142
Scottish Canals ⁷	12	12	12	11	11	14	11	10	10	12	19
Rail Services in Scotland ⁷	831	807	749	777	783	803	676	745	731	756	756
Northern Isles Ferries ⁸	33	36	40	43	41	38	36	32	35	46	43
Bus Service Operators Grant ⁸	64	64	63	61	62	50	51	53	53	51	52
Freight Facilities Grant ⁸	5	2	5	2	1	1	1	1	1	1	1
Integrated Transport Fund ⁸											
Major public transport projects	129	159	75	70	36	35	3	3	6	5	0
National Concessionary Travel schemes (incl Smartcards) ⁹	193	201	187	188	193	197	197	196	196	201	207
Other ⁴	45	22	53	52	68	93	115	150	170	273	268
Total (b)	1,248	1,216	1,193	1,229	1,292	1,336	1,231	1,351	1,361	1,505	1,516
Total Ministers' resp. (sum of a and b)	1,685	1,753	1,701	1,652	1,834	1,878	1,782	2,015	2,074	2,125	2,096
Local government gross capital expenditure on Roads and Transport											
New construction and improvement	284	412	338	411	439	401	366	361	377	306	353
Other investment	138	50	42	46	39	25	40	43	84	85	90
Total Gross Capital Expenditure	422	462	380	457	478	426	406	404	461	391	443
Local government net revenue expenditure on Roads and Transport, excluding loan charges ^{5, 6}											
Construction	3	4	3	4	5	14	5	6	3	3	3
Road maintenance (incl winter maintenance)	272	292	315	252	268	228	216	216	203	221	195
Road lighting	67	69	66	66	72	68	69	68	66	63	63
Parking	-26	-24	-25	-26	-30	-29	-32	-35	-39	-41	-44
Network and traffic management (other than school crossing patrols)	43	42	37	40	44	45	43	44	36	31	33
Concessionary fares	12	13	7	6	7	8	8	8	7	7	6
Contributions to passenger transport	66	71	76	115	89	90	99	99	108	132	109
School crossing patrols	16	16	15	14	14	14	14	13	14	13	12
Total Net Revenue Expenditure	452	483	495	472	468	439	423	418	398	430	379

Source: Expenditure on a and b above provided by Transport Scotland - Not National Statistics; Local Government figures are from Scottish Government CR Final and LFR 05 respectively

- Includes all costs related to the construction of Major Road Projects.
- Includes all costs in relation to the reconstruction and overlay of road network. Figures for 2001/02 - 2007/08 have been moved to current to reflect changes in recording practices.
- Includes all costs in relation to Roads and Bridges Network Strengthening and Minor Improvements that are not classed as Capitalised Maintenance. Figures for 2008-09 onwards have been amended to include money moved from capital to current expenditure to reflect changes to recording practices.
- Includes subsidies for the Community Transport Association, piers, harbours, road safety, safer routes to schools and additional concessionary fares support to Local Authorities (prior to 2007).
- The revenue account figures are reported on an accruals basis (i.e. reflected in the accounts of the period in which they take place).
- Includes support for LA and non-LA transport undertakings.
- SG took responsibility for these areas in 2001-02. In respect of rail services in Scotland for rail passenger services, and from 2006-07 it includes for Network Rail in Scotland (which was previously the British Waterways renamed Scottish Canals following split responsibility of the Department for Transport).
- Separate figures for each of these categories were not available prior to 2003-04
- The NCT schemes were introduced in April 2006. From April 2010 NCT electronic (Smartcards) required on-board Smartcard equipment. 2013/14 NCT schemes included £1.7m transitional aid via s38 of the Transport Scotland Act 2001. (NB 2012/13 spend included £13m transitional aid in total.)

Table 10.2 Net expenditure on management and maintenance of motorways and trunk roads by Operating Companies¹, 2017-18

Description	Capital		Current ²		Total
	Capital Maintenance		Routine, Cyclical and Winter Maintenance and Network Management		
	<i>£ thousand at outturn prices</i>				
North East Operating Company	157		29,160		29,317
North West Operating Company	5,357		48,846		54,203
South East Operating Company	518		33,183		33,701
South West Operating Company	7,346		48,200		55,546
Forth Bridges Operating Company ³	0		28,983		28,983
Total	13,378		188,372		201,750

Source: Transport Scotland

1. For the purpose of maintenance from 2001-02, the trunk road network was sub-divided into 4 operating units (see Notes)

2. These figures do not include costs for expenditure outside Operating Company control i.e. (Traffic Scotland Operations, PAG contract etc).

3. The Forth Bridge Operating Contract commenced on 1 June 2015

Table 10.3: Local government net revenue expenditure on Roads and Transport, excluding loan charges, in 2018-19 by subservice and local authority, £ thousands

Local Authority	Roads			Network and traffic management				Public Transport			Total
	Construction	Maintenance		Lighting	School crossing patrols	Other	Parking Services	Local Authority	Non - Local Authority		
		Winter maintenance	Structural, environmental and safety maintenance and routine repairs					LA public transport	Concessionary fares ²			Other non LA public transport
Aberdeen City	-	1,677	1,548	4,293	286	3,519	-	-	-	429	8,656
Aberdeenshire	-	4,697	176	2,172	414	1,526	179	-	246	7,643	16,701
Angus	2,705	2,520	2,396	959	-	-	-212	-	-	2,222	10,590
Argyll & Bute	52	1,995	5,693	1,249	170	681	-357	1,431	175	2,646	13,735
Clackmannanshire	193	449	1,047	354	28	96	10	-	53	347	2,577
Dumfries & Galloway	-	1,514	7,108	672	263	990	189	-	-	3,760	14,496
Dundee City	-	1,443	1,342	1,063	-	2,733	-2,122	-	43	636	5,138
East Ayrshire	-	735	5,412	1,910	240	1,112	-381	-	233	2,019	11,280
East Dunbartonshire	-	427	2,705	725	401	939	-82	-	210	1,818	7,143
East Lothian	-	1,295	964	1,372	261	407	1	-	92	1,139	5,531
East Renfrewshire	-	956	6,197	1,206	224	103	164	-	171	1,572	10,593
Edinburgh, City of	-	2,090	8,977	4,751	1,279	378	-24,082	381	959	-3,791	9,058
Eilean Siar	-	1,496	1,821	366	11	19	41	778	-	2,929	7,461
Falkirk	4	1,288	2,107	1,322	386	1,825	-205	-	131	2,015	8,873
Fife	24	3,301	11,043	2,763	333	1,674	-508	-	380	9,362	28,372
Glasgow City	-	1,040	10,437	10,006	3,304	1,695	-12,801	-	1,010	7,013	21,704
Highland	-	8,113	11,123	4,268	182	2,362	-1,130	102	146	8,348	33,514
Inverclyde	-	317	1,613	904	170	195	44	-	164	1,458	4,777
Midlothian	-	774	1,754	1,041	309	885	164	-	13	655	5,595
Moray	-	1,780	1,976	642	173	875	-523	152	-	385	5,460
North Ayrshire	-	834	5,969	1,479	291	62	204	-	272	2,322	11,433
North Lanarkshire	-	3,871	7,702	4,789	1,196	1,646	-	-	552	5,374	25,130
Orkney Islands	-	781	1,983	246	44	432	-14	3,774	113	2,484	9,843
Perth & Kinross	-	3,613	3,367	1,424	49	1,146	-878	-	59	2,635	11,415
Renfrewshire	17	1,096	3,190	1,642	675	1,688	-504	1,760	287	3,029	12,880
Scottish Borders	350	4,022	2,556	982	142	550	147	27	16	2,352	11,144
Shetland Islands	-	1,123	3,348	452	13	598	20	8,939	7	3,936	18,436
South Ayrshire	-	629	4,635	1,698	109	677	-504	-	261	1,890	9,395
South Lanarkshire	133	4,416	7,672	2,381	855	2,961	-741	-	563	5,318	23,558
Stirling	-	1,126	2,681	2,688	136	287	-379	-	-	1,625	8,164
West Dunbartonshire	-	667	1,718	623	169	515	91	-	-	1,771	5,554
West Lothian	-	2,123	6,195	2,759	378	670	173	-	454	2,476	15,228
HITRANS	-	-	-	-	-	-	-	-	-	-	-
NESTRANS	-	-	-	-	-	-	-	-	-	10	10
SESTRAN	-	-	-	-	-	-	-	-	-	712	712
SWESTRANS	-	-	-	-	-	-	-	-	-	-	-
SPT	-	-	-	-	-	-	-	-	-	3,053	3,053
TACTRAN	-	-	-	-	-	-	-	-	-	-45	-45
ZetTrans	-	-	-	-	-	-	-	-	143	275	132
Scotland	3,478	62,208	133,007	63,201	12,491	33,246	-44,084	17,344	6,467	91,822	379,180

Source: Scottish Government Local Financial Returns 2018-19, LFR 0

1. Support services costs, such as IT, HR, Legal etc., are included under the relevant subservice

2. The Scottish National Concessionary Travel bus scheme was introduced in April 2006 and administered by Transport Scotland, therefore local authority figures no longer cover bus travel but cover rail, subway, ferry and some taxi schemes. Further statistics on concessionary travel can be found in table 11.29.

Table 10.4: Service breakdown of local authorities' total expenditure on Roads and Transport to be met from capital resources in 2018-19, £ thousands ¹

Category of expenditure	Tangible Fixed Assets			Intangible assets	Revenue Expenditure Funded from Capital Resources		Total Expenditure to be met from Capital Resources
	Acquisition of land, leases, existing buildings or works	New construction, conversions & enhancement to existing buildings	Vehicles, Plant, machinery & Equipment		Third Party Capital Projects	Consented Borrowing	
Roads	17,457	269,188	15,645	35	6,903	-	309,228
Network and Traffic Management	2,543	34,571	1,516	-	125	-	38,755
Bridges	175	25,769	340	-	-	-	26,284.0
Parking services	-	1,608	422	-	-	-	2,030
Rail	-	6,409	106	-	2	-	6,517
Other Public Transport	6	15,556	51,103	244	12,238	-	79,147
Total Roads and Transport	20,181	353,101	69,132	279	19,268	-	461,961

Source: Scottish Government CR Final 2018-19

1. Capital Expenditure is recorded on a accruals basis (not cash) and includes Capital Funded from Current Revenue.

Table 10.5: Local government total expenditure on Roads and Transport to be met from capital resources in 2018-19 by subservice and local authority, £ thousands

Authority	Roads	Network and Traffic Management	Bridges	Parking services	Rail	Public Transport	Total Roads and Transport
Aberdeen City	12,156	2,369	147	-	-	20	14,692
Aberdeenshire	24,807	734	2,884	-	-	10,738	39,163
Angus	7,020	397	-	288	-	40	7,745
Argyll & Bute	10,782	-	54	-	-	22	10,858
Clackmannanshire	2,857	-	26	-	-	-	2,883
Dumfries & Galloway	11,639	133	1,050	46	56	635	13,559
Dundee City	8,255	194	64	31	5,787	-	14,331
East Ayrshire	6,180	2,185	945	2	-	-	9,312
East Dunbartonshire	7,340	277	501	-	-	-	8,118
East Lothian	6,559	177	61	500	-	-	7,297
East Renfrewshire	2,150	697	81	-	286	-	3,214
Edinburgh, City of	16,005	10,322	5,205	48	-	1,293	32,873
Eilean Siar	1,796	320	673	-	-	624	3,413
Falkirk	6,991	394	842	34	-	-	8,261
Fife	11,623	2,421	169	147	-	-	14,360
Glasgow City	19,189	5,498	1,828	-	-	-	26,515
Highland	25,868	2,865	3,003	-	388	1,469	33,593
Inverclyde	4,361	368	105	9	-	-	4,843
Midlothian	5,400	-	-	-	-	28	5,428
Moray	5,678	345	352	156	-	302	6,833
North Ayrshire	4,595	-	974	-	-	-	5,569
North Lanarkshire	13,547	324	790	342	-	982	15,985
Orkney Islands	2,346	-	-	-	-	443	2,789
Perth & Kinross	22,087	2,108	2,822	23	-	-	27,040
Renfrewshire	7,180	1,254	293	-	-	-	8,727
Scottish Borders	8,971	1,198	794	-	-	-	10,963
Shetland Islands	2,802	74	20	-	-	1,916	4,812
South Ayrshire	5,492	1,555	32	-	-	40	7,119
South Lanarkshire	25,143	632	-	24	-	1,293	27,092
Stirling	8,414	596	605	125	-	50	9,790
West Dunbartonshire	6,659	23	-	255	-	11	6,948
West Lothian	5,336	1,295	1,575	-	-	-	8,206
Tay Bridge	-	-	389	-	-	-	389
HITRANS	-	-	-	-	-	-	-
NESTRANS	-	-	-	-	-	-	-
SESTRAN	-	-	-	-	-	49	49
SWESTRANS	-	-	-	-	-	233	233
SPT	-	-	-	-	-	58,852	58,852
TACTRAN	-	-	-	-	-	107	107
ZetTrans	-	-	-	-	-	-	-
Scotland	309,228	38,755	26,284	2,030	6,517	79,147	461,961

Source: Scottish Government CR Final 2018-19

1. Capital Expenditure is recorded on a accruals basis (not cash) and includes Capital Funded from Current Revenue.

Table 10.6a Petrol and diesel prices and duties per litre (year average), GB¹

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Unleaded Petrol ²												
Price pence	107.1	99.3	116.9	133.3	135.4	134.1	127.5	111.1	108.8	117.6	125.2	124.9
of which:												
Duty	50.5	54.4	57.2	58.2	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
VAT ³	15.8	13.0	17.4	22.2	22.6	22.4	21.3	18.5	18.1	19.6	20.9	20.7
All tax	66.3	67.3	74.6	80.4	80.5	80.3	79.2	76.5	76.1	77.5	78.8	78.6
All tax as a % of price	62	68	64	60	59	60	62	69	70	66	63	63
Diesel (derv) ^{4,5}												
Price pence	117.5	103.9	119.3	138.7	141.8	140.4	133.5	114.9	110.1	120.1	130.0	131.5
of which:												
Duty	50.5	54.4	57.2	58.2	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
VAT ³	17.3	13.6	17.8	23.1	23.6	23.4	22.2	19.1	18.4	20.0	21.7	21.8
All tax	67.9	68.0	75.0	81.3	81.6	81.4	80.2	77.1	76.3	78.0	79.6	79.8
All tax as a % of price	58	65	63	59	58	58	60	67	69	65	61	61

Source: DECC - Not National Statistics

1. DTI discontinued publishing the price of LRP from September 2005, due to the low volume of sales. June figures for 4 star Lead Replacement Petrol (LRP) are available in previous editions of STS.
2. From June 2001 Premium unleaded prices represent Ultra Low Sulphur Petrol (ULSP) which now accounts for virtually all Premium unleaded sold.
3. VAT is rebated to business. From 1 April 1991 it was 17.5%, 15% in 2009, 17.5% in 2010 and 20% from 2011.
4. Diesel-engined road vehicle fuel (derv).
5. From June 2000, the figures are for ultra low sulphur diesel (ULSD) which now accounts for virtually all diesel sold.

Table 10.6b Petrol and diesel prices per litre (year and month), GB¹

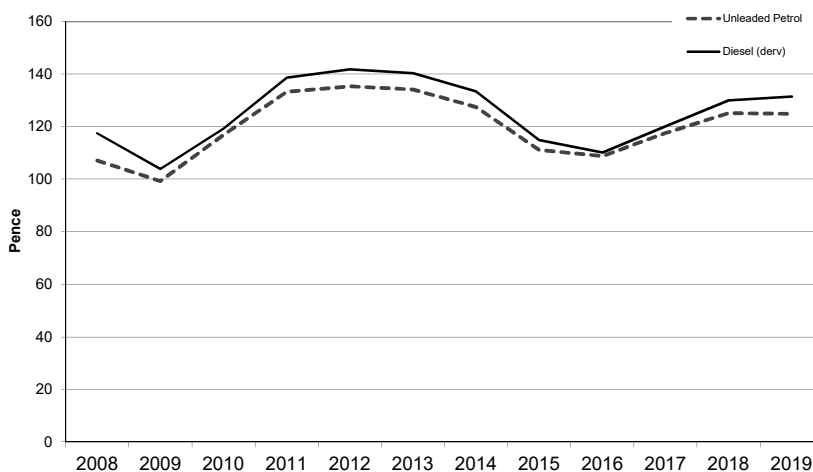
	January	February	March	April	May	June	July	August	September	October	November	December
Unleaded ¹												
2010	111.5	111.6	115.5	119.8	121.2	117.7	117.2	116.2	114.6	117.2	118.7	121.6
2011	127.5	128.4	131.9	134.7	136.7	135.6	135.1	135.3	134.7	134.0	133.2	132.1
2012	132.9	134.6	137.7	141.7	137.7	131.6	131.1	134.1	139.1	138.1	134.5	131.6
2013	131.7	136.4	137.2	136.8	132.7	134.1	134.7	136.9	137.2	131.5	129.7	130.8
2014	130.2	129.0	128.6	128.8	129.3	129.7	131.1	129.3	128.5	126.8	122.5	116.2
2015	108.5	107.2	111.0	112.5	115.7	116.4	116.4	114.5	111.5	109.0	107.2	103.7
2016	101.7	101.4	101.7	106.4	108.4	111.0	111.7	109.0	111.2	113.6	115.9	114.1
2017	118.7	119.9	119.4	117.3	115.5	115.5	113.9	115.6	118.9	117.2	119.1	120.0
2018	121.2	121.4	119.1	120.6	124.7	127.9	127.6	128.6	130.8	130.9	128.6	121.0
2019	119.5	118.9	120.4	124.1	128.1	127.6	127.4	128.5	127.0	127.1	125.6	124.4
Diesel												
2010	113.3	113.4	116.2	121.0	122.8	120.1	119.7	118.7	117.2	120.6	122.5	125.8
2011	132.1	133.4	138.1	141.1	141.5	139.6	139.4	139.9	139.2	139.4	140.3	140.6
2012	141.3	142.6	145.0	147.8	144.0	137.4	136.6	139.4	144.0	143.0	141.1	139.7
2013	139.5	143.9	144.6	141.3	138.0	139.3	139.6	141.6	142.3	138.8	137.3	138.8
2014	138.1	136.7	136.0	135.9	136.1	135.4	136.0	133.6	133.1	131.1	127.2	122.4
2015	115.9	114.6	118.2	119.1	121.0	121.2	118.7	111.7	109.8	110.8	110.1	107.8
2016	102.5	101.0	102.4	106.9	109.1	111.9	112.7	110.7	113.2	115.6	118.4	117.2
2017	122.0	122.8	122.3	119.9	117.4	117.5	115.4	117.3	120.5	120.3	122.7	123.5
2018	124.6	124.7	122.8	124.2	128.3	131.9	131.8	132.5	134.5	136.6	137.1	131.0
2019	129.3	128.9	130.7	132.9	135.3	133.4	131.8	132.6	131.3	131.9	130.3	129.4

Source: DECC - Not National Statistics

Note: Data for earlier years can be found on the DECC website <http://www.decc.gov.uk/assets/decc/statistics/source/prices/qep411.xls>

1. From June 2001 Premium unleaded prices represent Ultra Low Sulphur Petrol (ULSP) which now accounts for virtually all Premium unleaded sold.

Petrol and Diesel prices, year average GB



Petrol and Diesel prices, by month, 2014 to December 2019 GB

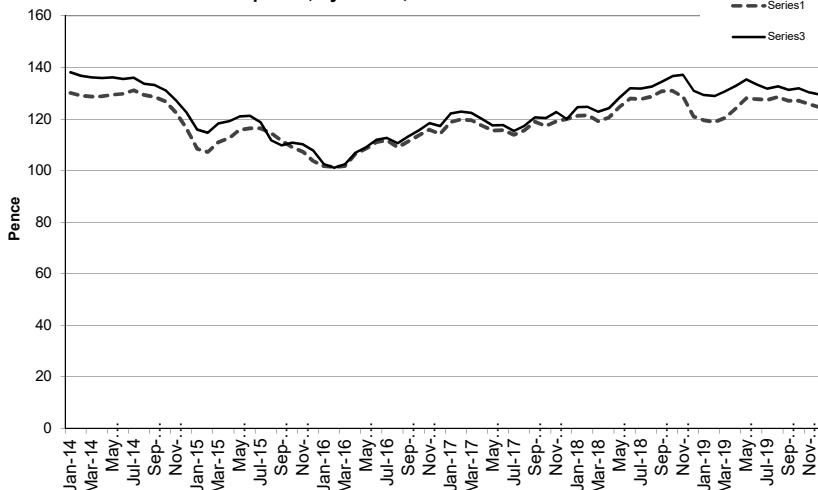


Table 10.7 Transport components of the Retail Prices Index, UK

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Retail Prices Index (all items)	100.0	99.5	104.1	109.5	113.0	116.4	119.2	120.3	122.5	126.9	131.1
<i>Index: 2008=100</i>											
<i>Transport components of the RPI:</i>											
Motoring expenditure	100.0	99.3	112.3	122.2	123.2	123.1	122.0	116.8	118.5	126.1	131.6
Purchase of motor vehicles	100.0	99.3	105.2	103.3	101.2	100.0	100.0	97.8	95.3	95.7	98.7
Maintenance of motor vehicles	100.0	104.1	109.0	114.4	116.5	119.3	122.5	124.8	126.9	130.3	135.0
Petrol and oil	100.0	92.0	107.5	123.1	125.5	124.3	118.3	102.7	99.8	108.1	115.9
Vehicle tax and Insurance	100.0	109.7	139.8	168.6	172.2	173.9	178.2	186.5	216.1	254.8	263.3
Fares and other travel costs	100.0	104.7	110.1	118.2	123.8	127.5	131.8	139.2	142.6	147.6	152.5
Rail fares	100.0	105.3	113.8	121.9	127.7	133.1	137.5	140.4	140.8	144.7	149.2
Bus and Coach fares	100.0	106.0	110.8	118.1	124.6	127.8	130.0	134.3	139.5	159.3	166.9
Other travel costs	100.0	103.4	109.9	118.3	122.4	127.5	131.6	140.1	143.8	145.2	150.2
Constant prices - Adjusted for general inflation using all items RPI											
Motoring expenditure	100.0	99.8	107.9	111.6	109.0	105.7	102.4	97.0	96.7	99.4	100.4
Purchase of motor vehicles	100.0	99.8	101.1	94.4	89.6	85.9	83.9	81.3	77.8	75.5	75.2
Maintenance of motor vehicles	100.0	104.6	104.7	104.4	103.1	102.5	102.8	103.7	103.6	102.7	102.9
Petrol and oil	100.0	92.5	103.3	112.4	111.1	106.7	99.3	85.3	81.5	85.2	88.4
Vehicle tax and Insurance	100.0	110.3	134.3	154.0	152.4	149.3	149.6	154.9	176.4	200.8	200.9
Fares and other travel costs	100.0	105.2	105.8	107.9	109.6	109.5	110.6	115.7	116.4	116.4	116.3
Rail fares	100.0	105.9	109.3	111.3	113.0	114.3	115.4	116.7	114.9	114.1	113.8
Bus and Coach fares	100.0	106.6	106.4	107.9	110.2	109.7	109.1	111.6	113.9	125.6	127.3
Other travel costs	100.0	104.0	105.5	108.0	108.4	109.5	110.4	116.4	117.4	114.5	114.5

Source: Office for National Statistics

Table 10.8 Average weekly household expenditure in Scotland on transport and vehicles (£)¹

	2006-08	2007-09	2008-10	2009-11	2010-12	2011-13	2012-14	2014-16 ³	2015-17 ³	2016-18 ³
Purchase of vehicles	24.30	24.10	23.10	19.90	18.20	21.00	26.20	28.60	26.20	23.50
Purchase of new cars and vans	8.80	8.70	7.40	5.70	6.10	8.70	12.50	13.90	12.40	8.90
Purchase of second hand cars or vans	14.90	14.70	15.00	13.70	11.80	11.80	12.70	13.40	12.40	13.60
Purchase of motorcycles and other vehicles	0.60	0.70	0.70	0.50	[0.30]	[0.50]	[1.00]	[1.40]	[1.30]	[1.10]
Operation of personal transport	27.20	27.30	27.80	27.80	30.00	32.30	33.30	30.30	27.90	27.00
Spares and accessories	1.80	1.80	2.00	1.60	1.70	1.90	2.20	2.10	2.10	2.10
Petrol, diesel and other motor oils	18.40	18.40	19.20	19.50	21.60	23.20	23.90	21.40	19.50	18.40
Repairs and servicing	5.20	5.30	5.10	5.20	5.20	5.50	5.30	5.10	4.60	4.60
Other motoring costs	1.90	1.80	1.50	1.50	1.50	1.70	1.90	1.60	1.70	1.80
Transport services	8.40	9.70	12.10	13.50	13.60	12.40	13.80	15.10	17.60	17.70
Rail and tube fares	1.80	2.00	2.20	2.00	2.10	2.20	2.40	2.60	2.70	2.80
Bus and coach fares	1.70	1.60	1.70	1.90	2.00	2.10	1.80	1.70	1.70	1.70
Combined fares	[0.20]	0.30	[0.30]	[0.20]	[0.10]	[0.00]	[0.10]	[0.10]	..	..
Other travel and transport	4.60	5.80	7.90	9.40	9.30	8.10	9.60	10.70	13.00	13.10
Total Transport Expenditure	59.90	61.10	63.00	61.20	61.80	65.80	73.30	74.00	71.70	68.20
Total Household Expenditure	432.80	438.70	447.20	440.60	437.30	449.00	474.40	481.70	492.30	492.20
Transport as % of total exp	13.8	13.9	14.1	13.9	14.1	14.7	15.5	15.4	14.6	13.9

Source: Office for National Statistics

1. Based on weighted data and including children's expenditure.

2. The figures in this column refer to the average expenditure over the three financial year periods to reduce the effect of the sampling errors

3. ONS have changed the reporting period from calendar years to financial years. Users should exercise caution when making comparisons with previous years.

Chapter 11: Personal and Cross-Modal Travel

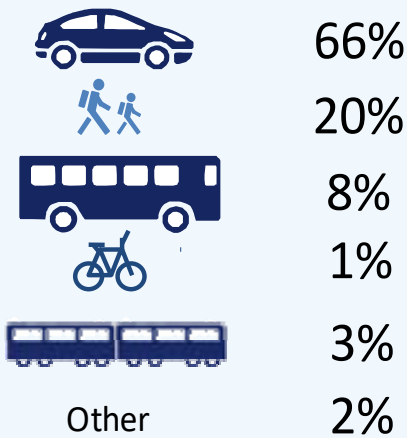
- Information from the Scottish Household Survey
- Journey numbers
- Journey distance and duration
- Personal travel by mode
- Travel to work
- Travel to school

People in Scotland made less trips in 2018 than 10 years ago with

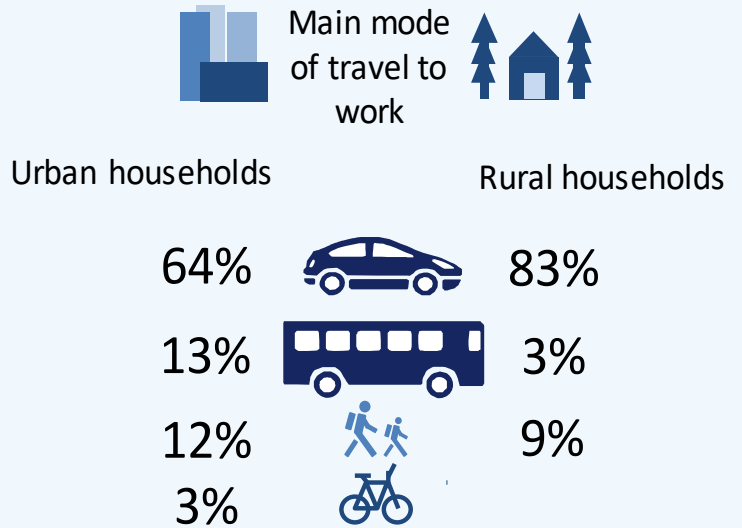
73%

reporting travelling the previous day,
Compared to 79% in 2008.

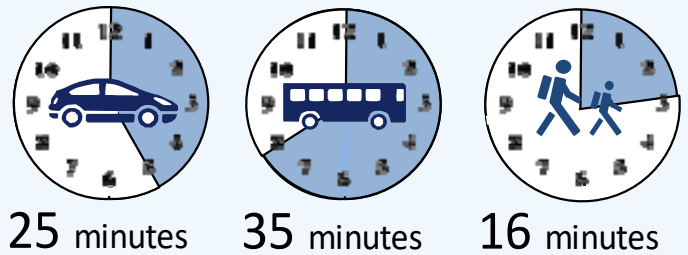
Modal share of all journeys 2018



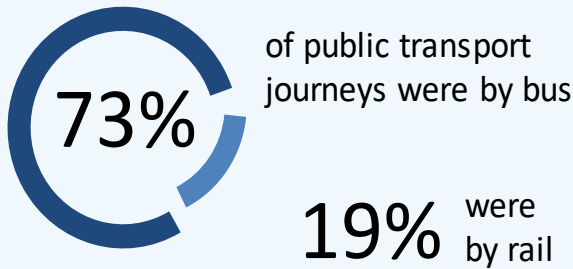
Higher income and rural households were more likely to **travel to work** by car in 2018.



Average **commuting time by mode** in 2018:



515 million **public transport** journeys were made in 2018



41% of adults drove every day in 2018



Rural households tended to drive more often than urban households



For web publication and further information, visit http://bit.ly/STS_alliterations



PERSONAL AND CROSS-MODAL TRAVEL

1. Introduction

1.1 This chapter previously included information from the National Travel Survey (NTS). However, Scottish data are no longer collected in the NTS, estimates for Scotland from the NTS are available in previous editions of this publication. This chapter now focuses on estimates derived mainly from the Scottish Household Survey (SHS), findings from other sources are marked as such within the text.

1.2 The SHS is a sample survey and provide person-based cross-modal information, in contrast to most of the earlier chapters, which tend to be based on particular modes of transport. The SHS also includes a travel diary that asks respondents for information about the journeys they made on the previous day, including information on the duration, distance, purpose and mode of travel. More information and further tables covering transport findings from the Scottish Household Survey can be found in Transport and Travel in Scotland: <http://bit.ly/2qbgypZ>

1.3 In this edition of STS we have also presented relevant information on travel behaviours collected from the 2011 census as previously published by the National Records of Scotland. More information about the sources used can be found in the Sources section on page 225.

Key points

- **73% of people had travelled the previous day when asked in 2018, down from 79% in 2008.**
- **Of the 515 million public transport journeys made in 2018, 73 per cent were by bus, 19 per cent were journeys by rail, air accounts for 6 per cent and ferries 2 per cent.**
- **Thirty per cent of journeys to work and 74 per cent of journeys to school are by public and active travel.**

2. Main Points

Trips

2.1 People in Scotland made less trips in 2018, with 73% reporting having travelled the previous day, down from 79% in 2008. Men were more likely to have travelled the previous day than women (74% compared to 72%) and older people were less likely to have travelled than younger people.

2.2 As in previous years, the car was the most popular mode of transport for journeys made in 2018, with 53% of journeys made as a car driver. This was slightly higher than the previous year. Thirteen per cent of journeys were made as a car passenger. Bus travel accounted for 8% and rail travel for 3%. A fifth of journeys were by walking (20%) and cycling accounted for 1% of all journeys. Three per cent of journeys were multi-stage, involving a change in mode of transport.

2.3 Twenty seven per cent of adults used the bus at least once per week in 2018, with 42% using a bus in the past month. Train use appeared to be less

Personal and Cross-Modal Travel

frequent; 10% of people had used the train at least once a week and 31% of people had used a train in the last month, in 2018.

Distance travelled

2.4 In 2018, most journeys tended to be over short distances, with 16% of all journeys being under 1 km long and a further 25% between 1 and 3 km. The mean journey distance in 2018 was 11.4 km.

2.5 The average cycling journey was 4.7 km in length and the average walking journey was 2.0 km in length in 2018. Rail and car journeys tended to be over greater distances with car journeys covering an average of 13.5 km and rail journeys 28.7 km. Most journeys by active travel were made over short distances - 77% of walking journeys and 32% of cycling journeys were under 2 km.

2.6 In 2018, both shopping and commuting (23.0% and 24.3% respectively) were the most frequent journey purposes, followed by visiting friends or relatives (10.1%), returning home (7.0%) and sport/entertainment (6.3%). These percentages have stayed fairly stable in the last year.

Duration travelled

2.7 In terms of journey time, most journeys in 2018 were short, with 67% lasting for less than 20 minutes: 36% of journeys were between 5 and 10 minutes long, 42% between ten and thirty minutes long and 13% between thirty minutes and an hour long. Only 5.3% of journeys lasted more than an hour and only 3.5% of journeys were very short (lasting under 5 minutes).

Car access

2.8 Adults in households with more cars were more likely to have travelled the previous day – 62% of adults living in households with no cars normally available travelled the previous day, compared to 79% of adults with two or more cars. Similarly, 8% of adults in households with no cars made more than four journeys the previous day compared to 19% of those in households with two or more cars. Car driving by adults increased with an increase in car availability. Where no car was normally available, 3% of adults' journeys were as a driver of a car, compared to 57% where one car was available, and 70% where two or more cars were available. Adults in households with no car made 13% of their journeys as a passenger in a car or van, compared to 14% for those in households with one car, and 12% where two or more cars were available.

2.9 Adults in households with no car access made a far higher proportion of their journeys by public and active travel. Bicycle use was highest for adults in households with no cars available – 3% of journeys as opposed to 1% for those in households with one car and 1% for those with two or more cars. Adults in households with no cars available had a much higher proportion of journeys by foot: 46%, compared to 17% for adults in households with one car and 11% for those with two or more cars. The proportion of trips by bus was also considerably higher for adults in households with no car: 27%, compared to 6% for those in households with one car and 3% for adults with access to two or more cars.

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Driving

2.10 The Scottish Household Survey (SHS) provides information about how often people aged 17 or over drive. In 2018, 46% of men, 37% of women and 41% of all people aged 17+ said that they drove every day. A further 21% stated they drove at least once a week (but not every day), 3% drove less frequently, 4% had a full driving licence but never drove, and 31% did not have a full driving licence. (Table 11.10)

2.11 Since the recent peak in 2007, the percentage who drove every day has fallen from 45.2 per cent to 41.4 per cent, but over the same period the proportion of those who drove at least once a week has risen by 6 percentage points. (Table 11.12)

2.12 The frequency of driving varied with age. In 2018, over half of people aged 40 to 59 said they drove every day. As age rises this falls (to 15% for people aged 80 and over). The frequency of driving also varied with the annual net income of the household. Around three fifths of people aged 17+ living in households with an annual net income of £50,000 or more said they drove every day, compared with a sixth of those living in households with an annual net income of up to £10,000. Around a third (33%) of people aged 17+ in large urban areas drove every day compared to 46% in 'remote rural' areas. (Table 11.10)

Walking

2.13 In 2016, 69% of adults made a journey of more than a quarter of a mile by foot to go somewhere in the last seven days – the highest proportion seen in the last decade. Young adults (aged 20-29) were the most likely to have walked to go somewhere (81%), compared with 75% of those aged 30-39, around two thirds of those in their 40s, 50s and 60s, and over two fifths of those aged 80 or above (44%). (Tables 11.11 & 11.13)

2.14 In 2016, 61% of adults said that they had walked for pleasure or to keep fit at least once in the last seven days – also the highest in recent times. There was some variation with age: the percentage was highest for those aged 30-49 (67%) and lowest for those aged 80 or above (31%). There was less variation with household income, although those with net annual incomes of over £30,000 were more likely than those with lower incomes. (Tables 11.11 & 11.13)

Travel to Work (SHS data)

2.15 SHS travel to work statistics no longer feature in Scotland's National Indicator: "Increase the proportion of journeys to work made by public or active travel" in their old form. More information on National Indicators can be found on the Scotland Performs website:

<http://www.gov.scot/About/Performance/scotPerforms/indicator/transport>

2.16 The SHS shows that 16% of employed adults worked from home in 2018, an increase from 2008 (10%). Just over two thirds (68%) of self-employed people worked from home, though this is based on a relatively small sample size and therefore may be subject to larger confidence intervals. (Tables 11.17 & 11.21)

2.17 Overall, the SHS found that the majority (68%) of employed adults who did not work from home travelled to work by car or van (as either the driver or as a passenger) in 2018. This percentage tended to increase with age (16-20: 58%, Over 40: around 73%), type of employment (65% of those who work part-time,

Personal and Cross-Modal Travel

compared to 68% for full-time) and annual net household income (rising to 72% of those in the £50,000+ band). (*Table 11.18*)

2.18 Other usual means of travel to work were: walking (12%); bus (10%); rail (6%); bicycle (3%) and other modes (2%). Use of such modes of transport also varied. For example: in general, the greater the income of the household, the less likely a person was to walk or use the bus to travel to work; the percentage who walked to work was highest in remote small towns (28%) and the percentage who commuted by bus was highest in large urban areas (18%). Since 2008, the percentage travelling to work by car or van (as driver or passenger) has remained around two thirds. Within this overall figure, the percentage travelling to work as a car passenger has fallen since 2008 (from 6.1% to 4.8%). Walking journeys have remained relatively stable around 12%, and little change has been seen in the use of other modes of transport. (*Tables 11.18 & 11.22*)

Travel To Work (*non-SHS data*)

2.19 Other data sources show a similar pattern to the Scottish Household Survey data and also enable comparison with the rest of Great Britain.

2.20 Labour Force Survey results suggest that, between 2008 and 2018, there has been little change in the percentage for whom a car or a van is the usual means of travel to work (69% in 2008 and 70% in 2018). There was no change to walking which was 11% in both 2008 and 2018. People who work at home are excluded from these figures. These figures are similar to the findings from the SHS shown in table 11.18. (*Table 11.14*)

2.21 There appears to have been little change in recent years in the average times taken to travel to work by the main modes of transport (in 2018: 25 minutes by car; 35 minutes by bus and 16 minutes by foot). (*Table 11.15 b*)

2.22 The Scottish Census 2011 showed 2.4 million people aged between 16 and 74 in employment, excluding full-time students. 11% of these worked mainly from home. Of the remaining 2.1 million people, 36% had a journey of under 5 km to work, 43% had a journey of between 5 km and 30 km to work and 8% travelled 30 km or more to work. The remaining 12% had no fixed place of work, worked offshore or worked outside the UK. (*Table 11.31*).

2.23 Information about travel to work has been collected in population censuses since 1966. Excluding those that worked at home, the percentage of the working population using cars to travel to work had increased from 21% in 1966 to 69% in 2011 and the percentage using buses had fallen from 43% in 1966 to 11% in 2011. There had also been a significant fall in the proportion of the working population who walk to work, from 24% in 1966 to 11% in 2011. (*Table 11.16*)

2.24 The 2011 Census showed that the distance of people's journey to work tended to vary with their access to cars or vans. Seventy-four per cent of people living in households with no car or van available had a commute of fewer than 10 km, compared with 60 per cent of those in households with one car or van available and 47 per cent of those in households with two or more cars or vans available. Conversely, the proportion of people who travelled 30 km or more to work was higher for people in households with two or more cars or vans available (10 per cent) than for those in households with one car or van available (7 per cent) or with no cars or vans available (4 per cent). (*Table 11.33*)

Personal and Cross-Modal Travel

Travel to School

2.25 In 2018, 52% of children in full-time education at school usually walked to school, 19% usually went by bus, 24% by car or van, 2% cycled. There was little difference between the sexes, but varied greatly with age: 57% of primary school age pupils (those aged up to 11) usually walked to school compared with only 45% of those of secondary school age (those aged 12 and over); 29% of primary pupils went by car or van compared with only 18% of secondary pupils; and only 9% of primary pupils usually travelled by bus compared with 32% of those of secondary age. (*Table 11.19*)

2.26 Those usually travelling by car/van tended to rise with household income, to 28% of pupils from households with an annual net income of £30,000 or more, reflecting patterns seen elsewhere in this chapter e.g. travel to work and car use more generally. Walking to school was lowest (30-31%) in rural areas. Estimates for those walking to school have remained relatively stable whilst those traveling by car has risen since 2006. The Sustrans Hands Up Scotland Survey shows similar findings. (*Tables 11.19, 11.23 & 11.23a*)

2.27 According to the 2011 Scottish Census, 88% of children aged between 4 and 11 travelled less than 5 km to school, including 72% who travelled less than 2 km. 51% of those aged over 18 travelled less than 5 km to their place of study. 430,000 people of any age travelled under 2 km to their place of study, with 73% of these people travelling by foot, 6% travelling by bus and 17% as a passenger in a car or van. Of the 428,000 people who travelled 2 km or more to their place of study, 31 per cent did so as a car driver or passenger, 43 per cent travelled by bus and 7 per cent travelled by train. (*Table 11.34 & 11.35*)

Travel Abroad

2.28 According to the International Passenger Survey (IPS), Scottish residents made an estimated 4.5 million visits abroad in 2018 with 4.3 million visits (96%) being made by air. Edinburgh was the main airport used and accounted for about 1.9 million visits (43% of all visits abroad), followed by Glasgow (1.4 million or 32%), Aberdeen (205,000 or 5%). Around 143,000 visits abroad (3%) were made by sea, and roughly 74,000 (1%) were made using the Channel Tunnel. (*Table 11.24*)

2.29 Around 65% of Scottish residents' visits abroad were made for holiday purposes. Of these, almost a third (1.4 million) were on a package holiday whilst the rest travelled independently. There were 1.1 million (26%) visits abroad to visit friends or relatives and 384,000 visits abroad for business purposes (9%). (*Table 11.24*)

2.30 Seventy five per cent (3 million) of Scottish residents' visits abroad were made to EU countries and visits to other European areas totalled 91,000 (2%). Visits to Canada and the USA together totalled about 401,000 (9%). (*Table 11.25*)

2.31 The estimated number of visits abroad by Scottish residents rose from 4.2 million in 2004 to a peak of 4.8 million in 2008, a rise of 14%. The numbers then fell year on year to a low of just under 3.6 million in 2013, a fall of 25%. There has now been an increase of 24% between 2013 and 2018. Between 2005 and 2013 there has been a general decline in the number of package holidays, although there have been rises in the four of the past five years. Those travelling independently has generally increased, though are currently below the 2008 peak. Other holidays increased by 51% between 2004 and 2008 but has since fallen back 6%. There

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was also a large increase in the number of visits to friends and relatives over the same period, with numbers almost doubling between 2004 and 2008 and falling 16% since. Some of the apparent year-to-year changes may be due to sampling variability, however, the general trends reflect patterns described elsewhere in this publication. (*Table 11.26*)

Transport Model for Scotland

2.32 Information on travel between different parts of Scotland is available from the Transport Model for Scotland (TMfS). The base year of TMfS is 2014.

2.33 It is estimated that, on an average weekday in 2014, 5.5 million person-trips were made by car, bus or train across the boundaries of one or more of the zones which are within the area covered by the TMfS. Around one third (33%) of these trips were within the Clydeplan region, 22% within SESplan region, 7% within TAYplan, and 9% within Aberdeen and the North East. (*Table 11.27*)

2.34 Of the 5.5 million inter-zonal person trips per weekday it is estimated that 4.5 million were by car. These accounted for over four-fifths of the total, and the main features of the pattern of trips by car were similar to those described in the previous paragraph. There were also an estimated 1.1 million inter-zonal person-trips by bus or train per weekday. Two fifths of these were within Clydeplan, and about a quarter were within SESplan. (*Table 11.27*)

2.35 There was an average of just over 4.6 million trips per weekday by cars and goods vehicles. One third were within Clydeplan, and just over a fifth were within SESplan. (*Table 11.27*)

Concessionary Travel

2.36 152 million passenger journeys were made under all types of concessionary fare schemes in 2018-19, 2% more than in 2017-18. Concessionary travel schemes have varied over the years: a national minimum standard of free off-peak local bus travel for elderly and disabled people in Scotland was introduced from 30 September 2002, the scheme was extended to men aged 60-64 from 1 April 2003. In 2006 this was superseded by the introduction of the National Concessionary Travel Scheme for the elderly and disabled which allowed free bus travel across Scotland. Including the young persons' scheme, concessionary bus travel accounted for 145 million passenger journeys in 2018-19, 95% of concessionary journeys by all modes of transport). (*Table 11.29*)

Traveline Scotland

2.37 In 2018 Traveline Scotland received 183,000 telephone calls which was 2% more than the previous year. Its Web site and smart phone app recorded 33 million hits in 2018, down 5% from the previous year. However, due to a server logging issue the 2018 figure will be understated(*Table 11.30*).

Table 11.1 Trips per person per year by main mode

Note: This table has been removed as data are no longer available for Scotland.

Table 11.2 Average distance travelled per person per year by main mode

Note: This table has been removed as data are no longer available for Scotland.

Table 11.3 Average length of trip by main mode

Note: This table has been removed as data are no longer available for Scotland.

Table 11.4 Trips per person per year by purpose

Note: This table has been removed as data are no longer available for Scotland.

Table 11.5 Average distance travelled per person per year by purpose

Note: This table has been removed as data are no longer available for Scotland.

Table 11.6 Average length of trip by purpose

Note: This table has been removed as data are no longer available for Scotland.

Table 11.7 Hours travelled per person per year by purpose

Note: This table has been removed as data are no longer available for Scotland.

Table 11.8 Average duration of travel per trip by purpose

Note: This table has been removed as data are no longer available for Scotland.

Table 11.9 Trips per person per year by main mode and cars available to the household

Note: This table has been removed as data are no longer available for Scotland.

Table 11.10 Frequency of driving*for people aged 17+: 2018 *

	Per Week			Per Month			Holds full licence, never drives	Total with a full driving licence	Doesn't have a full driving licence	Sample size (=100%)
	Every day	At least 3 times	Once or twice	At least 2 or 3 times	At least once	Less than once				
All people aged 17+ in 2017:	41.4	15.3	6.0	1.0	0.4	1.3	4.2	69.5	30.5	9,650
by gender:										
Male	46.0	16.0	7.0	1.0	0.0	1.0	4.0	76.0	24.0	4,290
Female	37.0	15.0	5.0	1.0	0.0	1.0	4.0	64.0	36.0	5,360
Identified in another way	**	**	**	**	**	**	**	**	**	0
Refused	**	**	**	**	**	**	**	**	**	0
by age:										
17-19	14.0	6.0	1.0	-	0.0	3.0	4.0	29.0	71.0	190
20-29	35.0	11.0	4.0	1.0	0.0	2.0	3.0	57.0	43.0	1,040
30-39	50.0	13.0	5.0	1.0	0.0	1.0	3.0	73.0	27.0	1,420
40-49	54.0	15.0	6.0	1.0	0.0	1.0	3.0	79.0	21.0	1,360
50-59	51.0	15.0	6.0	1.0	0.0	1.0	4.0	79.0	21.0	1,660
60-69	40.0	20.0	8.0	2.0	0.0	1.0	5.0	77.0	23.0	1,660
70-79	29.0	23.0	9.0	1.0	0.0	2.0	5.0	70.0	30.0	1,480
80+	15.0	14.0	8.0	2.0	0.0	2.0	7.0	48.0	52.0	820
Ethnicity of random adult										
White Scottish	43	16	6	1	0	1	4	71	29	7590
White other British	42	19	9	2	1	2	5	78	22	1240
White Polish	28	9	3	2	0	2	5	49	51	110
Other white	27	8	4	2	0	3	6	49	51	420
Other	36	9	3	0	0	2	2	52	48	120
Asian, Asian Scottish or Asian British	25	10	2	2	0	2	4	44	56	180
by current situation:										
Self employed	67.0	12.0	7.0	1.0	0.0	1.0	2.0	90.0	10.0	590
Employed full - time	57.0	14.0	6.0	1.0	0.0	1.0	3.0	82.0	18.0	3,140
Employed part - time	48.0	19.0	4.0	1.0	0.0	1.0	2.0	75.0	25.0	990
Looking after the home or family	33.0	12.0	4.0	1.0	0.0	1.0	3.0	53.0	47.0	380
Permanently retired from work	27.0	22.0	9.0	1.0	0.0	2.0	6.0	67.0	33.0	3,260
Unemployed and seeking work	12.0	9.0	4.0	-	0.0	2.0	9.0	37.0	63.0	310
In further/higher education	19.0	9.0	2.0	1.0	0.0	3.0	7.0	41.0	59.0	310
Permanently sick or disabled	6.0	8.0	6.0	1.0	0.0	0.0	9.0	29.0	71.0	540
by annual net household income:										
up to £10,000 p.a.	16	14	5	1	0	2	8	45	55	930
over £10,000 - £15,000	22	14	6	1	0	1	8	52	48	1530
over £15,000 - £20,000	30	14	6	1	0	1	5	57	43	1480
over £20,000 - £25,000	38	16	4	1	0	1	6	66	34	1160
over £25,000 - £30,000	43	15	6	1	0	1	4	70	30	880
over £30,000 - £40,000	54	16	6	1	0	2	2	81	19	1270
over £40,000 - £50,000	57	15	7	1	0	2	1	84	16	920
over £50,000 p.a.	62	17	7	1	1	1	1	90	10	1080
by Scottish Index of Multiple Deprivation:										
1 (20 % most deprived)	29.0	10.0	4.0	0.0	0.0	1.0	5.0	50.0	50.0	1,770
2	37.0	13.0	5.0	1.0	0.0	2.0	5.0	63.0	37.0	1,880
3	43.0	17.0	6.0	1.0	0.0	2.0	4.0	73.0	27.0	2,150
4	47.0	17.0	7.0	1.0	0.0	1.0	4.0	78.0	22.0	2,130
5 (20% least deprived)	49.0	19.0	8.0	2.0	1.0	1.0	3.0	83.0	17.0	1,720
by urban/rural:										
Large urban areas	33.0	12.0	6.0	1.0	1.0	2.0	5.0	61.0	39.0	2,960
Other urban	45.0	16.0	5.0	1.0	0.0	1.0	4.0	71.0	29.0	3,230
Small accessible towns	47.0	18.0	6.0	1.0	0.0	0.0	4.0	76.0	24.0	830
Small remote towns	40.0	13.0	6.0	1.0	0.0	2.0	4.0	66.0	34.0	580
Accessible rural	50.0	21.0	7.0	1.0	0.0	1.0	2.0	82.0	18.0	1,020
Remote rural	46.0	20.0	9.0	2.0	0.0	1.0	2.0	81.0	19.0	1,030

Source: Scottish Household Survey

*The frequency of driving is shown only for those who hold a full driving licence

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Table 11.11 Frequency of Walking in the previous seven days ¹ (people aged 16+): 2016 ²

	As means of transport					Sample size (=100%)	Just for pleasure or to keep fit ²					Sample size (=100%)
	none	1-2	3-5	6-7	1 +		none	1-2	3-5	6-7	1 +	
		days	days	days	days			days	days	days	days	
	<i>row percentages</i>											
All people in 2016:	31.4	19.4	26.3	22.9	68.6	9,540	38.6	20.3	19.8	21.2	61.4	9,540
by gender:												
Male	30.8	18.6	25.8	24.7	69.2	4,360	37.8	20.7	19.8	21.6	62.2	4,360
Female	31.8	20.0	26.9	21.3	68.2	5,180	39.4	19.9	19.8	20.9	60.6	5,180
by age:												
16-19	22.8	16.4	37.2	23.6	77.2	250	41.3	21.5	19.8	17.4	58.7	250
20-29	19.3	19.7	31.4	29.5	80.7	1,080	35.9	23.3	21.7	19.0	64.1	1,080
30-39	24.6	22.5	27.7	25.1	75.4	1,360	32.6	24.0	23.0	20.4	67.4	1,360
40-49	30.0	21.7	25.0	23.4	70.0	1,500	33.0	20.3	21.4	25.3	67.0	1,500
50-59	35.5	17.6	27.2	19.7	64.5	1,610	36.0	20.0	19.7	24.4	64.0	1,610
60-69	34.9	19.0	23.5	22.6	65.1	1,690	38.9	18.2	18.3	24.6	61.1	1,690
70-79	43.4	17.3	21.2	18.0	56.6	1,360	49.4	17.5	17.1	15.9	50.6	1,360
80+	55.6	15.7	13.6	15.1	44.4	700	68.6	10.7	8.7	11.9	31.4	700
by current situation:												
Self employed	28.4	17.5	26.3	27.8	71.6	620	29.5	20.6	19.4	30.4	70.5	620
Employed full time	28.4	21.0	27.8	22.8	71.6	3,100	34.3	23.9	20.5	21.4	65.7	3,100
Employed part time	28.7	20.0	27.9	23.3	71.3	960	33.6	20.9	22.7	22.9	66.4	960
Looking after the home/family	22.9	18.6	32.8	25.7	77.1	460	32.2	18.7	25.8	23.4	67.8	460
Permanently retired from work	41.2	18.0	21.1	19.7	58.8	3,150	47.9	16.0	17.4	18.7	52.1	3,150
Unemployed/seeking work	18.3	16.9	32.5	32.3	81.7	320	33.4	16.0	25.1	25.6	66.6	320
In further/higher education	16.3	19.6	31.9	32.3	83.7	320	31.8	23.7	22.7	21.8	68.2	320
Permanently sick or disabled	58.8	16.4	12.4	12.4	41.2	430	67.7	10.9	7.5	13.9	32.3	430
by annual net household income:												
up to £10,000 p.a.	31.0	17.9	24.5	26.6	69.0	1,140	41.7	16.6	21.4	20.3	58.3	1,140
over £10,000 - £15,000	31.9	18.6	25.4	24.1	68.1	1,600	46.4	18.1	17.7	17.8	53.6	1,600
over £15,000 - £20,000	32.1	18.1	28.1	21.7	67.9	1,410	45.3	15.2	19.8	19.8	54.7	1,410
over £20,000 - £25,000	35.6	16.5	27.1	20.8	64.4	1,160	41.5	17.7	19.8	21.1	58.5	1,160
over £25,000 - £30,000	31.1	18.9	26.1	23.8	68.9	890	40.9	21.9	18.0	19.3	59.1	890
over £30,000 - £40,000	30.9	21.6	25.6	21.9	69.1	1,260	34.0	24.1	20.1	21.8	66.0	1,260
over £40,000 p.a.	29.0	21.7	26.7	22.6	71.0	1,750	30.4	24.4	20.6	24.6	69.6	1,750
by Scottish Index of Multiple Deprivation:												
1 (20 % most deprived)	31.2	18.0	28.7	22.1	68.8	1,770	45.8	17.6	19.8	16.8	54.2	1,770
2	30.9	19.7	27.1	22.3	69.1	1,960	42.7	19.3	19.1	18.9	57.3	1,960
3	33.8	18.3	25.1	22.9	66.2	2,090	36.6	19.7	19.9	23.8	63.4	2,090
4	33.7	21.1	24.8	20.3	66.3	2,030	33.1	21.8	20.8	24.2	66.9	2,030
5 (20% least deprived)	27.1	19.8	26.1	27.1	72.9	1,690	35.1	23.1	19.4	22.3	64.9	1,690
by urban/rural classification:												
Large urban areas	25.1	17.8	27.9	29.1	74.9	2,840	41.3	19.0	19.4	20.4	58.7	2,840
Other urban	31.2	22.0	27.3	19.6	68.8	3,240	40.3	20.9	20.3	18.5	59.7	3,240
Small accessible towns	34.3	19.8	25.4	20.5	65.7	920	35.1	22.8	22.0	20.1	64.9	920
Small remote towns	31.3	18.7	29.5	20.5	68.7	550	43.1	18.1	15.5	23.3	56.9	550
Accessible rural	39.7	18.2	22.1	20.0	60.3	1,040	29.4	21.0	20.1	29.5	70.6	1,040
Remote rural	49.5	15.1	18.6	16.8	50.5	960	33.6	20.5	18.2	27.8	66.4	960
by frequency of driving: #												
every day	36.9	21.2	23.8	18.1	63.1	3,750	34.7	20.5	20.5	24.3	65.3	3,750
at least three times a week	29.0	23.6	27.0	20.5	71.0	1,500	31.0	25.3	24.6	19.1	69.0	1,500
once or twice a week	28.6	18.6	27.6	25.2	71.4	570	36.4	24.1	16.7	22.8	63.6	570
less often	28.2	17.6	23.7	30.5	71.8	280	41.7	21.0	17.6	19.8	58.3	280
Never, but holds full driving licence	24.1	14.5	29.4	32.1	75.9	370	44.3	13.1	18.6	24.0	55.7	370

Source: Scottish Household Survey

1. The number of days in the previous seven days on which the person made a trip of more than a quarter of a mile by foot for the specified purpose.

2. Question now asked in survey every other year. 2016 is the most recent data available.

Only includes those with a full driving licence.

Table 11.12 Frequency of Driving^{1,2} for people aged 17+

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	<i>column percentages</i>										
Every Day	44.9	43.4	41.4	40.7	42.0	41.9	40.9	40.9	42.2	41.9	41.4
Per Week:											
At least 3 times	10.4	11.9	12.8	13.3	13.1	13.3	13.9	14.5	14.3	14.7	15.3
Once or twice	5.6	5.6	6.0	6.2	6.0	5.6	5.9	5.9	6.0	6.1	6.0
Per Month:											
At least 2 or 3 times	1.0	0.9	0.9	0.9	0.8	1.0	0.9	0.8	1.0	1.0	1.0
At least once	0.4	0.4	0.4	0.4	0.3	0.5	0.7	0.5	0.5	0.5	0.4
Less than once	1.3	1.6	1.8	1.7	1.7	1.6	1.8	1.4	1.6	1.3	1.3
Holds full driving licence, never drives	4.0	4.2	4.3	4.1	4.5	4.5	4.3	4.0	3.4	4.0	4.2
Total with a full driving licence	67.6	68.0	67.6	67.3	68.3	68.4	68.5	68.0	69.0	69.5	69.5
Doesn't have a full driving licence	32.4	32.0	32.4	32.7	31.7	31.6	31.5	32.0	31.0	30.5	30.5
Sample size (=100%)	12,263	12,447	12,361	12,801	9,828	9,838	9,720	9,340	9,570	9,760	9,650

Source: Scottish Household Survey

1 For holders of full licences.

2 From April 2003, the questionnaire changed such that information on possession of driving licences and frequency of driving was no longer collected from the head of the household, or his/her spouse/partner, about all adults in the household, but instead from one randomly chosen adult member of the household about him or herself.

Table 11.13 Frequency of Walking in the previous seven days^{1,2} (people aged 16+)

	2004	2005	2006	2007	2008	2009	2010	2011	2012	2014	2016
	<i>column percentages</i>										
As means of transport											
None	46	46	46	48	48	41	38	37	34	33	31
1-2 days	17	15	16	18	17	18	19	19	20	19	19
3-5 days	21	22	21	20	22	22	24	24	23	26	26
6-7 days	16	17	17	14	14	19	19	20	23	22	23
1+ days	54	54	54	52	53	59	62	63	66	67	69
Sample size (=100%)	14,715	6,992	7,111	6,116	6,197	6,137	6,178	6,381	9,841	9,735	9,580
Just for pleasure or to keep fit ²											
None	56	54	53	53	55	52	49	46	45	42	39
1-2 days	16	17	17	18	18	19	18	19	19	20	20
3-5 days	13	14	14	14	13	13	17	17	17	18	20
6-7 days	14	15	16	16	14	16	17	19	19	20	21
1+ days	44	46	47	47	45	48	51	54	55	58	61
Sample size (=100%)	14,713	6,993	7,111	6,121	6,209	6,119	6,136	6,372	9,805	9,687	9,580

Source: Scottish Household Survey

1. The number of days in the previous seven days on which the person made a trip of more than a quarter of a mile by foot for the specified purpose.

2. Question now asked in survey every other year. 2016 is the most recent data available.

3. This category includes jogging and walking a dog.

PERSONAL AND CROSS-MODAL TRAVEL

Table 11.14 Usual means of travel to usual place of work (in Autumn)

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
											<i>percentage</i>
Car, van, minibus, works van	69	70	71	68	68	69	69	70	71	70	70
Bicycle	2	2	2	2	2	2	2	2	2	2	3
Bus, coach, private bus	13	11	10	12	11	11	11	10	9	9	9
Rail (inc Underground)	4	4	4	4	4	5	4	5	5	5	5
Walk	11	12	12	12	12	13	12	11	11	11	11
Other (inc taxi)	2	3	2	2	2	1	1	1	1	2	1
<i>All</i>	<i>100</i>	<i>100</i>	<i>100</i>	<i>100</i>	<i>100</i>	<i>100</i>	<i>100</i>	<i>100</i>	<i>100</i>	<i>100</i>	<i>100</i>

Source: Transport Statistics Great Britain

Table 11.15(a) Usual time taken to travel to usual place of work (in Autumn)

	1998	1999	2000	2001	2002	2003	2004	2005
								<i>minutes</i>
Car, van, minibus, works van	22	22	23	20	23	20	22	21
Bicycle	15	15	18	15	14	16	15	16
Bus, coach, private bus	32	32	32	33	34	33	32	32
Rail (inc Underground)	55	53	52	47	46	48	46	49
Walk	12	12	12	11	12	12	12	13
Other (inc taxi)	45	33	47	42	46	25	36	40
<i>All</i>	<i>23</i>	<i>23</i>	<i>24</i>	<i>22</i>	<i>24</i>	<i>21</i>	<i>23</i>	<i>22</i>

Note: This table is no longer being updated. Henceforth, information about average times taken to travel to work will be given in Table 11.15 (b), which is on the basis that is used to produce such figures for DfT's "Regional Transport Statistics".

Table 11.15(b) Usual time taken to travel to usual place of work (in Autumn)^{1,2}

	2008	2009 ¹	2010 ¹	2011 ¹	2012 ¹	2013 ¹	2014 ¹	2015 ¹	2016 ¹	2017 ¹	2018 ¹
											<i>minutes</i>
Car	24	24	25	23	24	25	24	24	25	24	25
Motorcycle	*	19	*	*	*	*	*	*	*	*	*
Bicycle	18	15	20	20	18	22	23	22	26	20	22
Bus/coach	36	35	36	35	39	37	38	37	37	39	35
Rail	57	53	53	51	59	56	49	51	50	54	51
Walk	12	14	14	13	15	14	14	14	16	13	16
Other	75	95	73	47 ³	89	77	74	98	49	79	63
<i>All</i>	<i>26</i>	<i>26</i>	<i>26</i>	<i>25</i>	<i>26</i>	<i>27</i>	<i>26</i>	<i>27</i>	<i>26</i>	<i>27</i>	<i>26</i>

Source: Transport Statistics Great Britain

* Sample size for this cell is too small for reliable estimates.

Source: Oct-Dec, Office for National Statistics (ONS) Labour Force Survey.

Notes: Some of the figures shown in table 11.15 (b) differ slightly from those in 11.15 (a) due to differing methodology used to extract.

Results are weighted using population estimates to ensure they are representative of the population at large.

1. Data are for males and females in employment aged 16-99.

2. Maximum recorded value of usual travel to work time = 180 minutes.

3. The large fall between 2010 and 2011 is due to a small sample size with a small number of very extreme values that are very sensitive to change

Table 11.16 Usual means of travel to work¹ (in Spring)

Population Census year	Train (inc. u/grd)	Bus	Car	Motor cycle	Pedal cycle	Foot ²	Other ³ (e.g. taxi)	Total of these
								<i>percentage</i>
1966	4	43	21	1	2	24	5	100
1971	3	35	29	~	2	24	6	100
1981	3	25	46	1	1	20	3	100
1991	3	18	59	1	1	15	3	100
2001	4	12	68	~	2	12	2	100
2011	5	11	69	~	2	11	2	100

~ Less than half a per cent but greater than zero.

1. Excluding those who worked at home in 1981, 1991 and 2001 (who were not identified separately in the 1966 and 1971

Census travel to work figures)

2. Includes 'none' in 1971

3. Includes 'none' in 1966; unspecified means of 'Public transport' in 1971, and 'not stated' in all years apart from 2001 (when there was no "not stated" category).

Table 11.17 Employed¹ adults (16+) - place of work: 2018

	Works from home	Does not work from home	All employed adults	Sample size (=100%)
				<i>row percentages</i>
All employed adults	16	84	100	4,720
Self - employed	68	32	100	590
Employed full - time	9	91	100	3,140
Employed part - time	10	90	100	990

Source: Scottish Household Survey

1. Those whose current situation was described as self-employed, employed full-time or employed part-time.

Figure 11.3: Travel to work a) 2008 and b) 2018

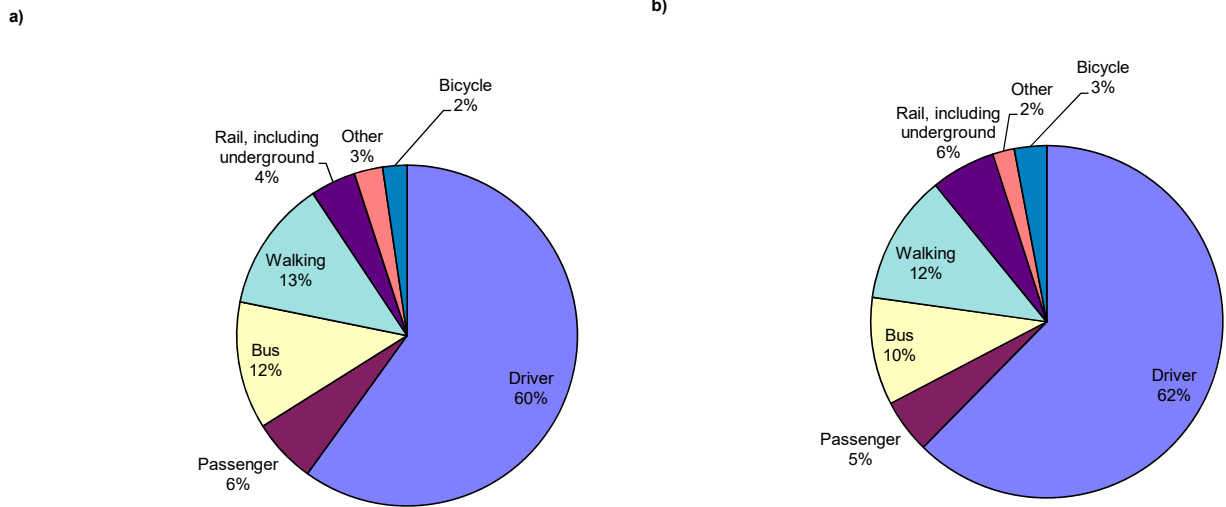
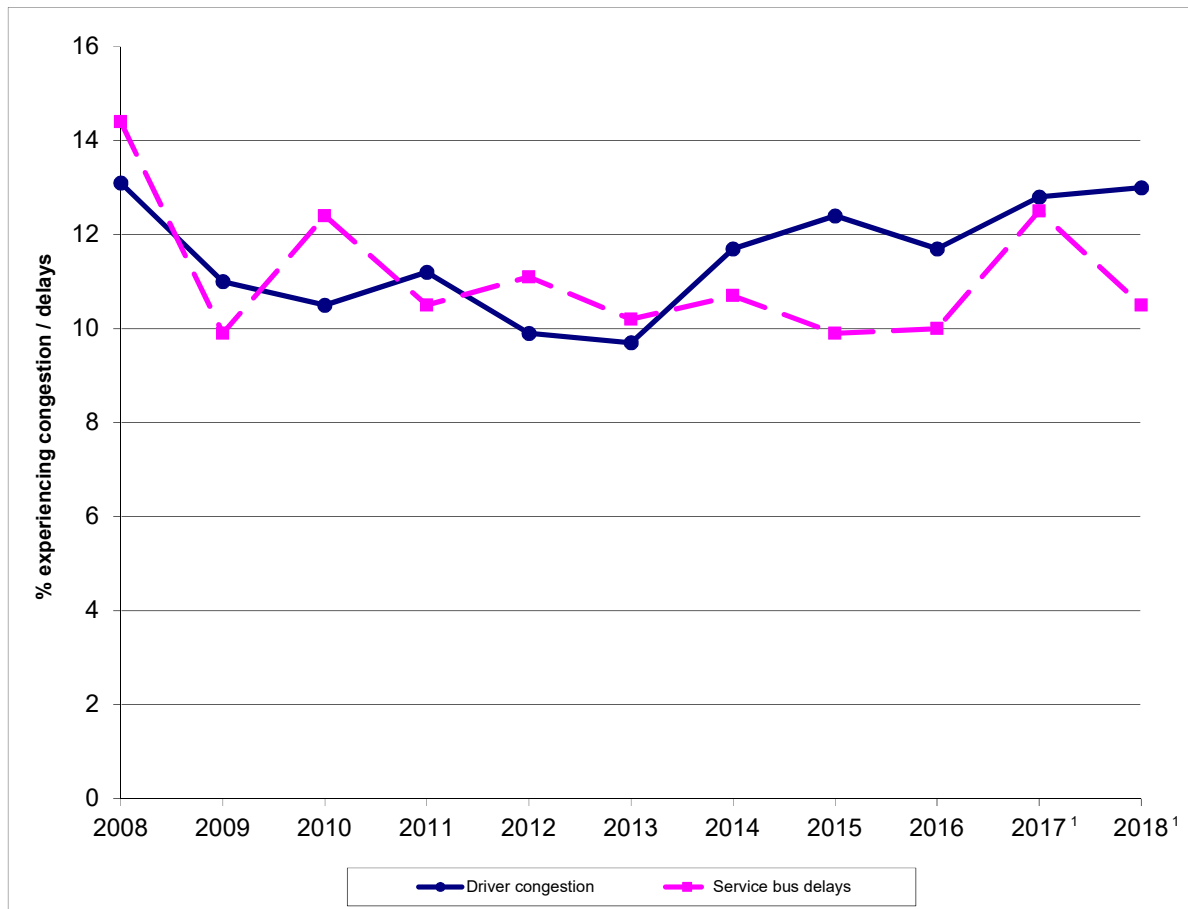


Figure 11.4: Driver experience of congestion and bus passenger experience of delays 2008-2018



Note: The Scottish Household Survey Travel Diary asks car drivers whether their journey was delayed by congestion. Those making bus journeys are asked whether their journey was delayed and there is a separate question asking the reason. The data on reason for delay is included in the SHS Travel Diary publication.

PERSONAL AND CROSS-MODAL TRAVEL

Table 11.18 Employed¹ adults (16+) not working from home - usual method of travel to work: 2018

	Walking	Car or van			Bicycle	Bus	Rail ²	Other ³	Sample size (=100%)	Active (Former National Indicator)
		Driver	Pass.	All						
<i>row percentages</i>										
All people aged 16+:	12	63	5	68	3	10	6	2	3,910	30.3
By gender:										
Men	10	63	4	67	4	9	6	3	1,780	30
Women	13	63	5	68	1	11	5	1	2,130	31
Identified in another way	**	**	**		**	**	**	**	-	**
Refused	**	**	**		**	**	**	**	-	**
by age:										
16 - 20	**	**	**		**	**	**	**	40	**
20 - 29	16	51	7	58	4	15	7	1	610	41
30 - 39	12	65	4	69	3	9	7	2	980	30
40 - 49	11	65	3	68	5	9	5	2	870	29
50 - 59	10	68	5	73	1	7	5	3	970	24
60 and over	8	70	6	76	1	11	2	2	440	22
Ethnicity										
White Scottish	11	65	5	70	2	9	6	2	3,000	28
White other British	13	65	3	68	4	9	4	3	490	29
White Polish	17	41	6	47	6	26	3	0	80	52
Other White	18	43	6	49	4	16	8	4	210	48
Asian, Asian Scottish or Asian British	9	66	2	68	1	14	4	5	80	28
Other ethnic groups	9	47	4	51	4	25	9	1	50	47
by current situation:										
Self employed	11	74	1	75	1	6	2	5	180	20
Employed full time	11	63	5	68	3	10	6	2	2,860	30
Employed part time	16	60	5	65	1	13	4	1	870	34
by annual net household income:										
up to £15,000 p.a.	20	43	6	49	3	22	3	3	430	48
over £15,000 - £20,000	16	56	6	62	2	14	4	2	460	36
over £20,000 - £25,000	12	56	5	61	3	14	5	4	450	36
over £25,000 - £30,000	15	55	10	65	2	11	5	1	430	34
over £30,000 - £40,000	9	68	4	72	2	8	6	1	750	26
over £40,000 - £50,000	11	68	5	73	3	5	6	1	610	26
over £50,000 p.a.	8	72	2	74	3	7	7	3	770	24
by Scottish Index of Multiple Deprivation:										
1 (20 % most deprived)	14	51	6	57	2	18	8	2	640	41
2	13	58	6	64	4	13	4	2	730	34
3	12	67	5	72	2	8	4	2	860	26
4	10	68	5	73	3	6	6	2	950	25
5 (20% least deprived)	10	67	2	69	3	8	6	3	740	27
by urban/rural classification:										
Large urban areas	15	49	4	53	4	18	8	2	1,240	45
Other urban	9	69	5	74	2	7	5	2	1,290	24
Small accessible towns	11	71	6	77	1	7	3	1	310	22
Small remote towns	28	46	9	55	0	5	5	6	250	38
Accessible rural	4	79	5	84	3	4	2	2	420	14
Remote rural	13	78	3	81	2	2	0	2	400	17
by number of cars:										
none	35	4	8	12	5	37	8	3	600	85
one	12	59	6	65	3	10	8	2	1,750	33
two +	5	83	3	86	1	3	3	2	1,560	12
Household type										
Single adult	15	58	4	62	3	11	6	3	960	36
Small adult	15	59	5	64	2	10	7	2	940	34
Single parent	17	56	3	59	2	17	4	2	260	39
Small family	7	70	3	73	4	8	6	2	760	24
Large family	12	67	5	72	4	7	5	1	260	27
Large adult	9	62	8	70	2	12	5	2	370	28
Older smaller	9	66	5	71	3	11	3	3	370	26

Source: Scottish Household Survey

1. Those in full-time employment, part-time employment and self-employed only.

2. Including the Glasgow Underground and Edinburgh trams.

3. e.g. motorcycle, lorry, taxi, ferry, etc.

** value suppressed as sample size contains fewer than 50 responses

Table 11.19 Usual main method of travel to school¹: 2018

	Walking	Car or Van	Bicycle	Bus			Rail ³	Other ⁴	Sample size (=100%)
				School ²	Service	All			
All children in full-time education, 2007	52.3	24.2	1.9	13.9	5.1	19.0	0.7	2.0	1,720
By gender:									
Man/Boy	53	23	2	14	5	19	0	3	880
Woman/Girl	51	26	2	13	6	19	1	1	840
Identified in another way	**	**	**	**	**	**	**	**	0
Refused	**	**	**	**	**	**	**	**	0
by age:									
age 4-5	57.0	33.0	4.0	4.0	1.0	5.0	-	1.0	160
age 6-7	59.0	29.0	1.0	8.0	1.0	9.0	-	2.0	310
age 8-9	55.0	30.0	3.0	8.0	2.0	10.0	-	3.0	260
age 10-11	58.0	26.0	3.0	7.0	4.0	11.0	-	1.0	290
All 4-11	57.0	29.0	3.0	7.0	2.0	9.0	-	2.0	1,020
age 12-13	48.0	15.0	1.0	23.0	9.0	32.0	1.0	3.0	240
age 14-15	46.0	17.0	1.0	24.0	9.0	33.0	1.0	2.0	300
age 16-18	40.0	23.0	1.0	22.0	10.0	32.0	4.0	2.0	170
All 12 - 18	45.0	18.0	1.0	23.0	9.0	32.0	1.0	2.0	700
by annual net household income:									
up to £15,000 p.a.	48.0	20.0	1.0	15.0	13.0	28.0	-	3.0	110
over £15,000 - £20,000	60.0	22.0	2.0	9.0	6.0	15.0	0.0	1.0	160
over £20,000 - £25,000	62.0	18.0	0.0	10.0	5.0	15.0	2	3.0	200
over £25,000 - £30,000	48.0	28.0	1.0	15.0	6.0	21.0	-	2.0	190
£30,000 - £40,000	58.0	20.0	3.0	15.0	3.0	18.0	1.0	1.0	330
£40,000 - £50,000	48.0	28.0	3.0	16.0	2.0	18.0	1.0	2.0	310
over £50,000 p.a.	47.0	27.0	1.0	15.0	6.0	21.0	1.0	2.0	410
by Scottish Index of Multiple Deprivation:									
1 (20 % most deprived)	56.0	23.0	1.0	8.0	9.0	17.0	0.0	3.0	330
2	56.0	26.0	1.0	9.0	6.0	15.0	0.0	1.0	320
3	50.0	21.0	2.0	19.0	3.0	22.0	1.0	3.0	340
4	45.0	24.0	3.0	23.0	3.0	26.0	0.0	2.0	380
5 (20% least deprived)	54.0	26.0	2.0	11.0	5.0	16.0	1.0	1.0	360
by urban/rural classification:									
Large urban areas	52.0	27.0	1.0	6.0	12.0	18.0	1.0	2.0	500
Other urban	60.0	25.0	2.0	8.0	3.0	11.0	0.0	2.0	620
Accessible small towns	60.0	16.0	1.0	19.0	1.0	20.0	1.0	2.0	150
Remote small towns	58.0	20.0	10.0	11.0	0.0	11.0	0.0	1.0	90
Accessible rural	31.0	25.0	2.0	37.0	2.0	39.0	-	3.0	200
Remote rural	30.0	20.0	3.0	39.0	1.0	40.0	3	4.0	160
by number of cars:									
None	74.0	4.0	1.0	7.0	12.0	19.0	0.0	2.0	240
One	55.0	24.0	2.0	11.0	5.0	16.0	0.0	3.0	670
Two +	44.0	30.0	2.0	18.0	3.0	21.0	1.0	2.0	820
Household type:									
Single parent	56.0	21.0	1.0	13.0	6.0	19.0	0.0	2.0	360
Small family	55.0	24.0	3.0	12.0	4.0	16.0	1.0	1.0	800
Large family	48.0	25.0	1.0	16.0	6.0	22.0	1.0	3.0	460
Large adult	39.0	32.0	1	19.0	7.0	26.0	1.0	2	90

Source: Scottish Household Survey

** denotes cell value suppressed as based on fewer than 5 responses

1. For those in full time education at school. The Main method of transport is recorded if there is more than one method.

2. Including those who were said to travel by school bus, private bus, and a few who went by works bus.

3. Including the Glasgow Underground.

4. e.g. motorcycle, lorry, taxi, ferry, etc.

Table 11.20 Travel to/from school (pupils aged 5 to 16)^{1, 2}

Note: This table has been removed as data are no longer available for Scotland .

Latest Scottish estimates are given in table 11.19 although this is based on a different source.

PERSONAL AND CROSS-MODAL TRAVEL

Table 11.21 Employed ¹ adults (16+) - place of work

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
											<i>column percentages</i>
Works from home	10.0	11.4	10.1	10.6	13.2	13.3	13.1	14.1	14.5	14.2	16.0
Does not work from home	90.0	88.6	89.9	89.4	86.8	86.7	86.8	85.9	85.5	85.8	84.0
All employed adults	100	100	100	100	100	100	100	100	100	100	100
Sample size (100%)	6,092	6,103	5,862	6,189	4,734	4,848	4,810	4,670	4,720	4,820	4,720

Source: Scottish Household Survey

1. Those whose current situation was described as self-employed, employed full-time or employed part-time.

Table 11.22 Employed ¹ adults (16+) not working from home - usual method of travel to work

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
											<i>column percentages</i>
Walking	12.5	12.3	13.4	12.9	13.6	12.9	12.9	13.6	12.3	12.0	11.8
Car or van											
Driver	59.9	60.7	61.0	59.1	61.4	60.6	61.6	60.3	61.7	62.3	62.9
Passenger	6.1	6.4	6.3	7.5	6.0	5.6	6.0	5.6	6.3	5.4	4.8
All	66.0	67.0	67.3	66.6	67.3	66.2	67.6	65.9	68.0	67.7	67.7
Bicycle	2.3	2.4	2.3	2.0	2.0	2.5	2.6	2.2	2.6	3.0	2.8
Bus	12.1	12.1	10.8	12.0	10.1	11.3	10.2	11.2	10.4	9.8	10.1
Rail ²	4.3	3.9	3.6	3.9	4.3	4.0	4.2	4.4	5.2	5.1	5.5
Other ³	2.7	2.3	2.7	2.6	2.6	3.1	2.5	2.7	2.4	2.4	2.2
Sample size (100%)	5,437	5,371	5,221	5,508	4,103	4,157	4,130	3,950	3,970	4,070	3,910

Source: Scottish Household Survey

1. The main method of transport is recorded if the journey involves more than one method.

2. Including the Glasgow Underground.

3. e.g. motorcycle, lorry, taxi, ferry, etc.

Table 11.23 Usual main method of travel to school ¹

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
											<i>column percentages</i>
Walking	48.8	50.0	49.7	50.6	51.4	51.7	51.2	48.8	51.8	51.5	52.3
Car or van	23.6	24.4	23.0	23.4	24.1	24.4	24.5	25.8	25.6	25.5	24.2
Bicycle	1.5	1.0	1.4	1.4	0.8	1.2	1.7	1.2	1.4	0.9	1.9
Bus											
School ²	16.5	16.1	16.1	15.1	14.9	14.5	14.5	15.3	12.9	14.2	13.9
Service	7.3	5.9	7.8	6.6	6.2	5.4	5.8	5.7	6.4	5.6	5.1
All	23.9	22.0	23.9	21.7	21.1	19.9	20.3	20.9	19.3	19.8	19.0
Rail ³	0.7	0.7	0.3	0.7	0.4	0.6	0.7	1.1	0.5	0.5	0.7
Other ⁴	1.5	1.8	1.7	2.2	2.2	2.2	1.7	2.1	1.5	1.7	2.0
Sample size (100%)	2,750	2,881	2,676	2,715	1,923	1,975	1,980	1,880	1,890	1,830	1,720

Source: Scottish Household Survey

1. For those in full time education at school. The main method of transport is recorded if there is more than one method.

2. Including those who were said to travel by private bus, and a few who went by works bus.

3. Including the Glasgow Underground.

4. e.g. motorcycle, lorry, taxi, ferry, etc.

Table 11.23a Usual main method of travel to school - Hands Up Scotland Survey ¹

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
										<i>column percentages</i>
Walk	47.0	45.8	45.9	45.1	44.1	44.2	43.3	42.8	42.3	42.5
Cycle	2.3	2.8	3.0	2.9	3.5	3.4	3.5	3.6	3.7	3.8
Scooter/Skate	0.6	0.7	1.0	1.6	2.8	2.8	2.9	2.9	2.8	2.4
Park & Stride	6.7	7.4	7.5	7.8	7.5	7.8	7.8	9.3	9.7	9.8
Driven	23.3	22.9	22.4	22.2	21.4	21.9	22.4	22.3	22.8	23.1
Bus	18.1	18.2	18.2	18.2	18.8	17.7	17.9	16.6	16.5	16.2
Taxi	1.6	1.6	1.6	1.7	1.6	1.6	1.7	1.8	1.6	1.7
Other	0.4	0.5	0.3	0.5	0.4	0.5	0.4	0.6	0.5	0.5
Sample size (100%)	415,804	439,401	427,104	457,488	467,397	487,147	480,161	458,145	473,160	468,537

Source: Hands Up Scotland Survey - Not National Statistics

1. All schools excluding nursery

PERSONAL AND CROSS-MODAL TRAVEL

Table 11.24 Scottish residents' visits abroad by means of leaving the UK and purpose of visit, 2018

Means of leaving the UK	Purpose of visit					Total
	Package Holiday	Other Holiday	Business	Visiting Friends or Relatives	Miscellaneous and other Purposes	
<i>thousands</i>						
Air						
Edinburgh	467	630	176	608	16	1,898
Glasgow	635	360	71	362	13	1,441
Prestwick ³	-	-	-	-	-	0
Aberdeen	51	64	57	30	3	205
Total Edinburgh, Glasgow, Prestwick & Aberdeen	1,153	1,054	304	1,000	32	3,543
Heathrow	3	17	11	23	2	56
Gatwick	36	56	8	20	-	119
Stanstead	2	11	-	18	-	31
Manchester	137	66	8	10	2	222
Newcastle	56	48	2	13	1	120
Birmingham	3	8	6	4	-	22
Other UK Airports	31	64	19	37	-	151
Total Air	1,421	1,323	358	1,124	37	4,263
Channel Tunnel	-	35	12	6	4	56
Sea						
English Channel Ports	-	44	13	10	1	69
English East Coast Ports	24	30	2	1	-	57
Other UK Ports 2	0	17	-	0	-	17
Total Sea	24	91	14	11	1	143
Total All Means of Leaving the UK	1,446	1,449	384	1,141	42	4,463

Source: Office for National Statistics

Table 11.25 Scottish residents' visits abroad by means of leaving the UK 1 and area visited, 2018

Means of leaving the UK	Area Visited					Rest of the World	Total
	EU	Other Europe	Canada & USA	Australia & New Zealand	Asia		
<i>thousands</i>							
Air							
Edinburgh	1563	32	134	31	74	63	1,898
Glasgow	977	35	132	46	112	139	1,441
Prestwick ³	-	-	-	-	-	-	0
Aberdeen	167	2	11	1	8	16	205
Total Edinburgh, Glasgow, Prestwick & Aberdeen	2,706	69	277	78	193	218	3,543
Heathrow	22	1	10	1	9	13	56
Gatwick	38	2	55	-	-	24	119
Stanstead	26	2	-	-	-	3	31
Manchester	125	4	41	-	8	44	222
Newcastle	112	-	-	4	3	2	120
Birmingham	15	-	-	-	5	2	22
Other UK Airports	104	8	17	2	6	13	151
Total Air	3,148	86	401	86	225	318	4,263
Channel Tunnel	55	-	-	-	-	1	56
Sea							
English Channel Ports	64	5	-	-	-	-	69
English East Coast Ports	57	-	-	-	-	-	57
Other UK Ports 2	16	-	0	-	-	0	17
Total Sea	137	5	0	0	0	0	143
Total All Means of Leaving the UK	3,340	91	401	86	225	319	4,463

Source: Office for National Statistics

1. These estimates are based on information from samples of passengers using the principal routes- see sections 3.14 and 4.4 of the text.
 2. "Other UK ports" includes information collected from Rosyth in 2008 Q2 & Q3.
 3. There are minor differences between Tables 11.26, 11.27 and 11.28, due to totals being calculated by adding separately-rounded numbers.
3. Prestwick airport was removed from the sample in quarter 2 of 2016.

PERSONAL AND CROSS-MODAL TRAVEL

Table 11.26 Scottish residents' visits abroad, by means of leaving the UK¹, purpose of visit, and area visited

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
	<i>thousands</i>											
All visits abroad by Scots	4,765	3,899	3,618	3,579	3,645	3,592	3,907	3,890	4,166	4,360	4,463	
by means of leaving the UK												
Air	Total	4,501	3,674	3,362	3,368	3,468	3,399	3,683	3,722	3,997	4,157	4,263
Edinburgh		1,194	1,035	1,000	1,038	1,045	1,166	1,213	1,308	1,550	1,798	1,898
Glasgow		1,742	1,339	1,102	1,108	1,176	972	1,178	1,191	1,328	1,441	1,441
Prestwick ²		644	376	409	414	364	382	328	282	33	0	0
Aberdeen		..	180	164	164	197	179	215	213	251	233	205
Total these airports		3,580	2,931	2,674	2,724	2,782	2,699	2,933	2,995	3,161	3,472	3,543
Heathrow		102	109	87	76	84	74	62	173	211	42	56
Gatwick		215	140	127	147	190	134	137	171	172	152	119
Stanstead		81	47	44	35	36	24	29	52	70	33	31
Manchester		134	130	130	125	132	161	214	175	192	159	222
Newcastle		128	105	119	83	91	80	90	63	86	83	120
Birmingham		18	13	19	14	17	19	25	21	18	21	22
Other UK Airports		243	199	162	164	137	208	193	71	87	196	151
Channel Tunnel		83	63	76	55	64	59	63	59	51	74	56
Sea	Total	182	163	180	156	113	133	161	109	119	129	143
English Channel Ports		107	109	118	108	74	105	106	67	63	59	69
English East Coast Ports		46	37	34	43	35	26	52	42	56	50	57
Other UK Ports		28	16	28	5	4	3	..	..	20	17	
by purpose of visit												
Package holiday		1,512	1,161	1,195	1,128	1,210	1,123	1,301	1,329	1,480	1,431	1,446
Other holiday		1,828	1,454	1,378	1,323	1,335	1,363	1,474	1,425	1,361	1,407	1,449
Business		407	397	363	399	334	325	350	317	326	420	384
Visit friends / relatives		913	800	611	670	673	711	718	757	933	1,059	1,141
Misc. and other		104	88	70	60	93	69	64	62	68	43	42
by area visited												
EU		3,692	2,933	2,709	2,768	2,845	2,761	2,972	2,859	3,010	3,359	3,340
Other Europe		64	50	48	64	50	60	85	241	228	121	91
North America		477	365	344	285	297	267	317	312	391	358	401
Australia & New Zealand		52	57	55	43	38	47	47	48	50	59	86
Asia		154	146	139	132	119	140	167	210	257	168	225
Rest of the World		324	348	322	288	296	317	319	220	232	295	319
by means of leaving the UK and main purposes of visits												
Edinburgh, Glasgow, Prestwick & Aberdeen												
Package holiday		1,175	895	882	850	974	847	997	1,068	1,173	1,205	1,153
Other holiday		1,303	1,055	989	982	975	1,011	1,073	1,059	992	1,023	1,054
Business		296	289	242	298	246	211	231	230	225	334	304
Visit friends / relatives		749	651	512	553	543	587	589	613	730	886	1,000
Other UK airport												
Package holiday		260	188	198	187	187	193	224	218	1,433	1,392	1,421
Other holiday		398	218	214	178	213	183	216	287	1,301	1,311	1,323
Business		94	40	48	49	47	42	47	72	297	392	358
Visit friends / relatives		135	78	54	56	75	64	62	117	902	1,022	1,124
Sea or Channel Tunnel												
Package holiday		78	78	115	92	49	83	80	42	41	27	24
Other holiday		127	182	176	162	147	170	185	78	44	55	91
Business		17	67	73	51	41	73	72	16	9	18	14
Visit friends / relatives		29	71	45	62	55	60	68	27	22	27	11
by main purposes of visit and area visited												
Package holiday												
EU		1,227	898	908	912	987	868	1,050	1,061	1,095	1,201	1,178
Elsewhere		285	264	287	216	223	255	252	267	246	230	268
Other holiday												
EU		1,503	1,185	1,120	1,106	1,110	1,152	1,219	1,122	923	1,132	1,138
Elsewhere		324	268	258	217	225	212	255	302	284	275	311
Business												
EU		275	274	252	274	237	219	240	170	163	300	314
Elsewhere		132	123	111	124	97	106	109	147	134	120	70
Visit friends / relatives												
EU		609	514	379	430	441	471	423	478	544	704	688
Elsewhere		304	286	232	240	231	240	295	280	358	354	453

Source: Office for National Statistics

1. These estimates are based on information from samples of passengers using the principal routes: the International Passenger Survey does not provide any information about passengers using other routes (e.g. Rosyth) - see sections 11.2 (page 283) and 11.7 (page 288) of the notes and definitions. Prestwick airport was added to the International Passenger Survey sample in 2005, so there are no figures for it prior to then. Removed from the sample quarter 2 of 2016. The results for 2003 and earlier years differ from those published previously because ONS has revised the series retrospectively - for example, the EU/Other Europe breakdown now reflects the position following the enlargement of the EU in 2004.
2. Prestwick airport was removed from the sample in quarter 2 of 2016.

Table 11.27 Transport Model for Scotland: inter-zonal ¹ trips made on an average weekday - within Scotland: circa 2014 ⁵

(a) People: by car, bus or train

Origin	Destination									
	Clydeplan ²	SESplan ³	TAYplan ⁴	Aberdeen City & Shire	Dumfries & Galloway	Ayrshire	Stirling, Falkirk & Clacks	Elsewhere in Scotland	Rest of UK	Total
Clydeplan ²	1,851	52	5	2	3	62	39	14	9	2,037
SESplan ³	53	1,226	43	3	2	2	41	2	11	1,381
TAYplan ⁴	5	42	411	6	0	0	8	2	2	476
Aberdeen City & Shire	2	3	7	487	0	0	1	8	1	509
Dumfries & Galloway	3	2	0	0	110	3	0	0	3	120
Ayrshire	62	2	0	0	3	283	1	1	1	351
Stirling, Falkirk & Clacks	43	42	8	1	0	1	209	1	1	307
Elsewhere in Scotland	15	3	2	8	0	1	1	298	2	331
Rest of UK	7	10	2	1	3	1	1	2	0	26
Total	2,041	1,381	478	507	121	351	301	329	29	5,538

(b) People: by car

Origin	Destination									
	Clydeplan ²	SESplan ³	TAYplan ⁴	Aberdeen City & Shire	Dumfries & Galloway	Ayrshire	Stirling, Falkirk & Clacks	Elsewhere in Scotland	Rest of UK	Total
Clydeplan ²	1,439	41	4	1	2	50	34	11	6	1,587
SESplan ³	42	954	36	2	1	1	36	2	6	1,079
TAYplan ⁴	4	36	340	5	0	0	8	2	1	395
Aberdeen City & Shire	1	2	6	426	0	0	1	7	1	444
Dumfries & Galloway	2	1	0	0	97	2	0	0	2	105
Ayrshire	49	1	0	0	2	239	0	1	1	293
Stirling, Falkirk & Clacks	38	37	8	0	0	0	179	1	1	264
Elsewhere in Scotland	12	2	2	7	0	0	1	263	2	289
Rest of UK	5	5	1	1	2	1	1	2	0	17
Total	1,591	1,080	397	442	105	294	259	287	19	4,474

(c) People: by bus or train

Origin	Destination									
	Clydeplan ²	SESplan ³	TAYplan ⁴	Aberdeen City & Shire	Dumfries & Galloway	Ayrshire	Stirling, Falkirk & Clacks	Elsewhere in Scotland	Rest of UK	Total
Clydeplan ²	413	11	1	1	1	11	5	4	2	449
SESplan ³	11	272	7	1	0	1	5	1	5	302
TAYplan ⁴	1	6	71	1	0	0	1	0	1	81
Aberdeen City & Shire	1	1	1	60	0	0	0	1	1	65
Dumfries & Galloway	0	0	0	0	14	0	0	0	1	16
Ayrshire	13	1	0	0	0	44	0	0	0	59
Stirling, Falkirk & Clacks	5	5	1	0	0	0	31	0	0	43
Elsewhere in Scotland	3	1	0	1	0	0	0	36	0	42
Rest of UK	2	4	1	1	1	0	0	0	0	9
Total	450	302	81	65	16	57	43	42	10	1,065

(d) Vehicle trips: cars and goods vehicles only

Origin	Destination									
	Clydeplan ²	SESplan ³	TAYplan ⁴	Aberdeen City & Shire	Dumfries & Galloway	Ayrshire	Stirling, Falkirk & Clacks	Elsewhere in Scotland	Rest of UK	Total
Clydeplan ²	1,483	46	5	2	3	55	35	10	7	1,646
SESplan ³	44	1,013	38	2	2	2	36	2	7	1,147
TAYplan ⁴	5	38	328	6	0	0	8	2	1	389
Aberdeen City & Shire	2	2	7	409	0	0	1	7	1	430
Dumfries & Galloway	3	2	0	0	103	3	0	0	2	114
Ayrshire	48	2	0	0	2	238	1	1	1	294
Stirling, Falkirk & Clacks	38	37	8	0	0	1	203	1	1	289
Elsewhere in Scotland	11	2	2	7	0	1	1	251	2	278
Rest of UK	6	7	1	1	3	1	1	2	0	22
Total	1,641	1,149	390	427	113	302	286	276	23	4,609

Source: Transport Scotland (Transport Model for Scotland:14) - Not National Statistics

- All travel movements between the 799 zones used to represent the UK.
The number of shorter distance trips which travel within a model zone area is not known.
- East Dunbartonshire, East Renfrewshire, Glasgow City, Inverclyde, North Lanarkshire, Renfrewshire, South Lanarkshire and West Dunbartonshire
- City of Edinburgh, East Lothian, Midlothian, Fife (South), Scottish Borders and West Lothian
- Dundee City, Angus, Perth & Kinross and Fife (North)
- This traffic and travel data was extracted from the Transport Model for Scotland 2014 (TMFS14) (Base Year Version AE, Model Version TMFS14 V1.0).
The data reflects daily travel movements within a 2014 base year and represents the most recent data available from the LATIS service
TMFS14 covers the whole of the Scottish Strategic Transport network. England is represented with less detail.
The data reflects 'inter-zonal trips', which includes all travel movements between the 799 zones used to represent the UK.
The data does not include more local or short distance movements travelling wholly within model zones.

PERSONAL AND CROSS-MODAL TRAVEL

Table 11.29 Passenger journeys made under concessionary fare schemes

	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
	<i>millions</i>										
(a) all journeys made under concessionary fare schemes¹											
Strathclyde Concessionary Travel scheme											
Buses ²	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rail	3.18	3.25	3.29	3.37	3.19	3.17	3.37	3.36	3.42	3.51	3.52
Underground	0.79	0.81	0.77	0.71	0.70	0.77	0.82	0.81	0.72	0.85	0.91
Ferries	0.70	0.71	0.68	0.63	0.65	0.64	0.67	0.65	0.68	0.65	0.67
Taxis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.67	4.77	4.74	4.71	4.54	4.58	4.86	4.82	4.82	5.01	5.10
Other concessionary fare schemes³											
Buses ^{2,4,5} (ie. the National schemes)	157.61	151.61	147.47	149.68	146.28	148.64	148.27	146.52	145.62	142.33	145.24
Rail	0.31	0.42	0.62	0.88	1.04	1.46	2.13	2.31	2.34	1.93	1.87
Underground	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ferries ⁵	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Taxis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	157.97	152.08	148.14	150.61	147.38	150.16	150.46	148.89	148.02	144.32	147.17
All concessionary fare schemes³											
Buses ^{2,4,5}	157.61	151.61	147.47	149.68	146.28	148.64	148.27	146.52	145.62	142.33	145.24
Rail	3.49	3.67	3.91	4.25	4.23	4.63	5.50	5.67	5.76	5.44	5.39
Underground	0.79	0.81	0.77	0.71	0.70	0.77	0.82	0.81	0.72	0.85	0.91
Ferries	0.75	0.76	0.73	0.68	0.71	0.70	0.73	0.71	0.74	0.71	0.73
Taxis	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	162.64	156.85	152.88	155.32	151.92	154.74	155.32	153.71	152.84	149.33	152.27
(b) of which: journeys which were made free of charge to the traveller¹											
Strathclyde Concessionary Travel scheme											
Buses ²	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ferries ⁶	0.70	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.70	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other concessionary fare schemes											
Buses ^{2,4,5} (ie. the National schemes)	156.59	150.37	146.09	148.09	144.54	146.87	146.75	145.31	144.71	141.75	144.71
Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ferries	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	156.64	150.42	146.14	148.14	144.60	146.93	146.81	145.37	144.77	141.81	144.77
All concessionary fare schemes											
Buses ^{2,4,5}	156.59	150.37	146.09	148.09	144.54	146.87	146.75	145.31	144.71	141.75	144.71
Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ferries	0.75	0.76	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Other	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	157.34	151.13	146.14	148.14	144.60	146.93	146.81	145.37	144.77	141.81	144.77

Source: Transport Scotland & Strathclyde Partnership for Transport - Not National Statistics

1 Figures include a degree of estimation (e.g. allowances for claims not yet been processed) and may incur some small revisions to previously published data
 2 The National Concessionary Travel bus scheme was introduced on 1st April 2006, which allows elderly and disabled free travel on all scheduled bus services in Scotland. This replaced any local schemes.
 3 2001-02 & 2002-03 figures do not include Eilean Siar.
 4 The Young People's Concessionary Travel Scheme started in 8 January 2007, aimed at 16 to 18 year olds (inclusive) and full time volunteers (aged under 26).
 5 The Reimbursement Rate for the National Concessionary Travel bus scheme changed from 73.6% applicable 2006/07 to 2009/10, to 67% applicable 2010/11 to 2012/13, to 61% in 2013/14, to 58.1% in 2014/15, to 57.1% in 2015/16, to 56.9% in 2016/17 and 2017/18, to 56.8% in 2018/19.
 6 A small charge was introduced for ferries in 2010.

Figure 11.1 Calls to Traveline Scotland in 2018

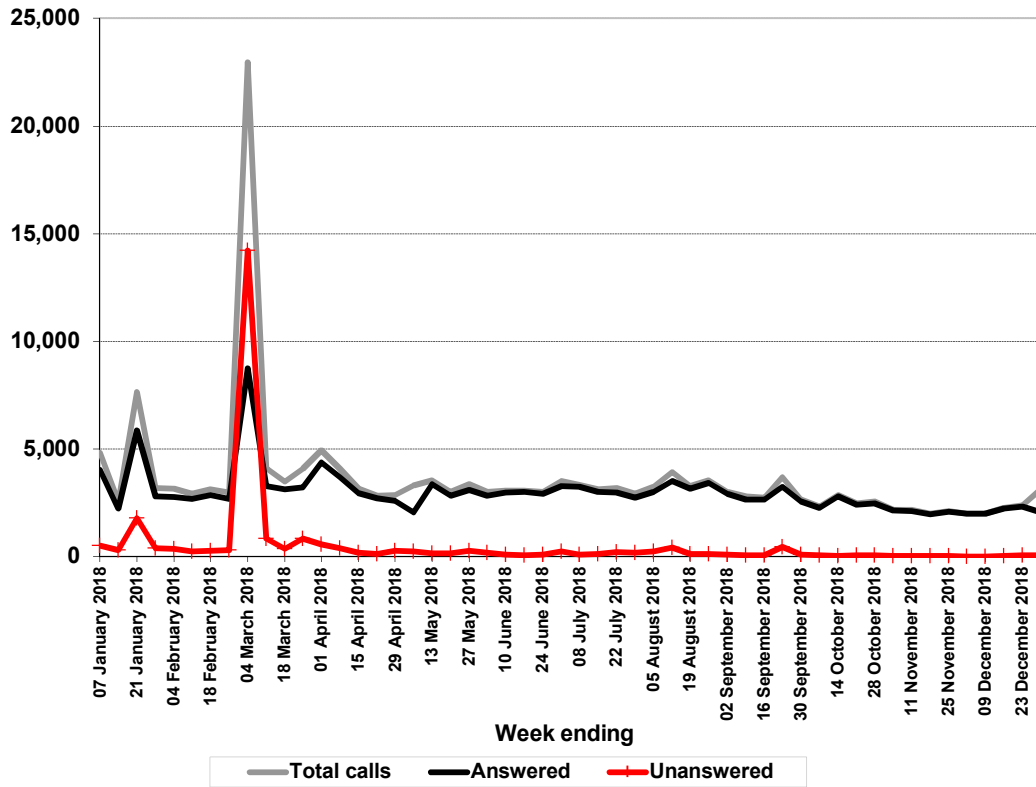


Figure 11.2 Traveline Scotland - Web & App hits in 2018

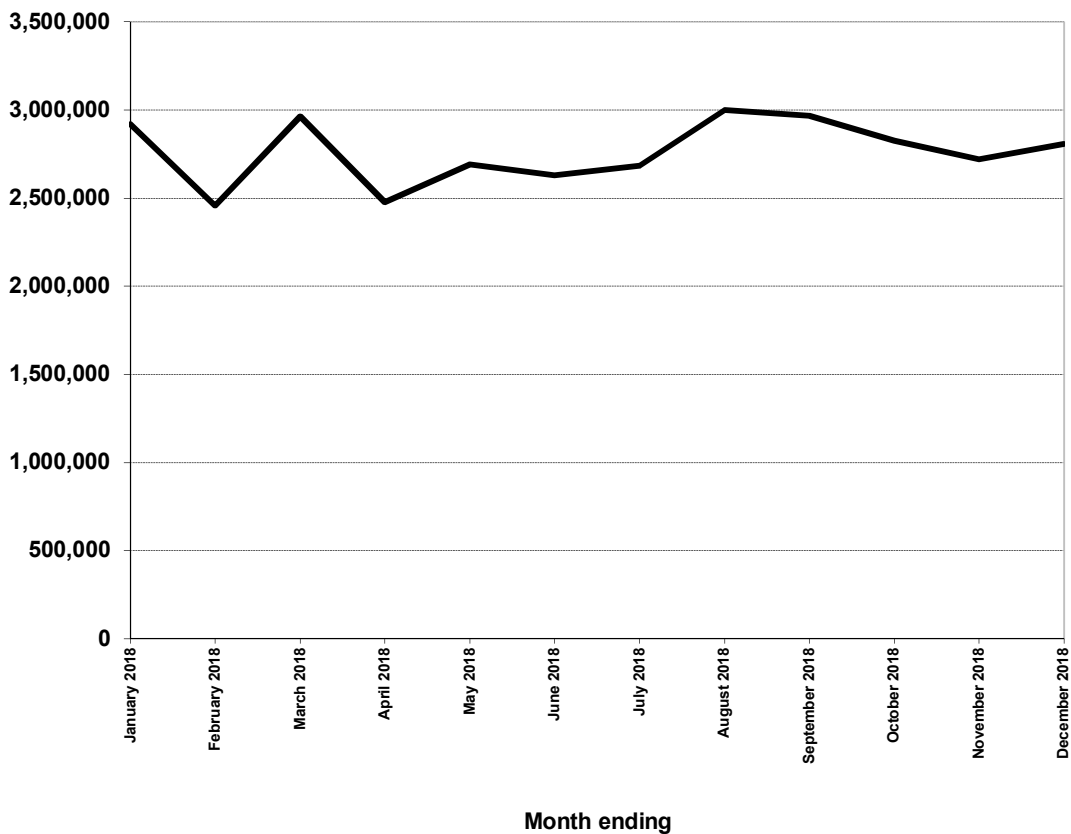


Table 11.30 Traveline Scotland: telephone calls and web site hits¹

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Weeks included in year ²											
Telephone calls	52	52	52	52	52	52	52	52	52	52	52
Web site	52	52	52	52	52	52	52	52	52	52	52
											<i>thousands</i>
Calls answered	627.7	606.1	700.7	503.9	399.8	331.7	286.7	219.9	214.1	166.0	157.0
Calls unanswered											
Ring tone, no reply ³	7.2	3.4	2.8	0.4	0.7	-	-	-	-	-	-
Engaged tone ³	0.0	0.6	1.9	0.0	0.0	-	-	-	-	-	-
Other ³	5.9	2.4	2.6	0.3	2.5	-	-	-	-	-	-
Total unanswered ⁷	13.1	6.4	7.3	0.7	3.2	6.5	8.5	2.6	10.0	13.0	26.0
Total number of calls	640.9	612.5	708.1	507.1	403.0	338.2	295.2	222.5	224.1	179.0	183.0
											<i>percentages</i>
Percentage answered	97.9	99.0	99.0	99.4	99.2	98.1	97.1	98.8	95.5	92.7	85.8
											<i>numbers</i>
Daily average answered ⁴	1,724	1,665	1,925	1,384	1,098	911	788	604	588	456	431
											<i>seconds</i>
Answered calls: av. duration	114.9	111.6	142.6	161.5	178.3	180.0	182.0	190	195	205	184
											<i>thousands</i>
Total number of hits ^{5, 6, 8}	1,635.2	3,217.4	4,349.7	7,430.9	10,166.9	11,532.4	12,636.1	20,080.9	29,000.0	35,069.4	33,152.8
											<i>numbers</i>
Daily average hits ⁴	4,492	8,839	11,950	20,415	27,931	31,682	34,715	55,167	79,670	96,345	91,079

Source: Transport Scotland - Not National Statistics

- Traveline Scotland went live for telephone calls on 3 January 2001. Its internet service became operational on 27 October 2002, and was formally launched on 16 December 2002, but statistics of its use are only available from the start of 2003.
- The figures relate to the weeks which ended on Fridays which were in the specified calendar year - for example, the figures for "2003" cover the 52 weeks from the one ending on Friday 3 January 2003 to the week ending on Friday 26 December 2003, inclusive.
- Categorisation of unanswered calls no longer takes place.
- Daily averages are calculated by dividing the total for all the weeks ending in the year by the number of days in those weeks (e.g. 52 x 7 = 364). Therefore, they may differ slightly from the result that would be obtained if one divided by the actual number of days in the year (365 or 366).
- Hits are the record of unique visits to the web site. The web site supplier changed on 1 January 2006 and the new supplier defined hits in a more robust way than the previous supplier so the figures for 2006 onwards are not on a like for like basis with previous year
- Total number of hits now includes visits to bus departure boards on the Traveline Scotland app
Consists of 6,211.7 unique web visits and 1219.2 app departure board visits (thousands)
- Unanswered calls figure has increased due to a massive surge in calls during March 2018 as a result of the "mini beast from the East" severe weather
- Total number of hits for 2018 will be understated due to a server logging issue

Table 11.31 Employed adults (16-74) distance to place of work: 2011^{1 3}

		Excluding those working mainly from home									
Work mainly at or from home		Less than 2km	2 km to less than 5 km	5 km to less than 10 km	10 km to less than 20 km	20 km to less than 30 km	30 km to less than 40 km	40 km to less than 60 km	60 km and over	Other ²	Total Number (=100%)
		row percentages									
All	10.8	14.7	21.6	19.2	17.0	7.2	3.3	2.5	2.3	12.3	2,400,925

Source: Scottish Census 2011, National Records of Scotland

1. The distance travelled is a calculation of the straight line between the postcode of place of residence and postcode of workplace.
2. Includes no fixed place of work, working on an offshore installation and working outside the UK.
3. Percentages for distance to place of work do not include those working mainly from home

Table 11.32 Employed adults (16-74) mode of transport to place of work: 2011^{1 2 3}

		Excluding those working mainly from home										
Work mainly at or from home		Underground, metro, light rail or tram	Train	Bus, minibus or coach	Taxi or minicab	Driver, car or van	Passenger, car or van	Motorcycle, scooter or moped	Bicycle	On foot	Other	Total Number (=100%)
		row percentages										
All	10.8	0.3	4.2	11.2	0.7	62.8	6.5	0.3	1.6	11.1	1.3	2,400,925

Source: Scottish Census 2011, National Records of Scotland

1. The distance travelled is a calculation of the straight line between the postcode of place of residence and postcode of workplace.
2. Includes no fixed place of work, working on an offshore installation and working outside the UK.
3. Percentages for mode of travel to place of work do not include those working mainly from home

Table 11.33 Employed adults (16-74) distance to place of work by car/van availability: 2011^{1 2 4}

		Excluding those working mainly from home									
Work mainly at or from home		Less than 2km	2 km to less than 5 km	5 km to less than 10 km	10 km to less than 20 km	20 km to less than 30 km	30 km and over	Other	Total Number (=100%) ³		
		row percentages									
All	10.7	14.6	21.6	19.3	17.0	7.3	8.0	12.3	2,390,595		
Number of cars or vans available for private use:											
None	10.8	24.8	30.9	17.9	9.4	3.0	3.6	10.5	314,494		
One	10.0	16.4	23.7	19.7	15.9	6.2	6.7	11.4	932,787		
Two or more	11.1	10.2	17.3	19.3	20.1	9.3	10.3	13.5	1,143,314		

Source: Scottish Census 2011, National Records of Scotland

1. The distance travelled is a calculation of the straight line between the postcode of place of residence and postcode of workplace.
2. Includes no fixed place of work, working on an offshore installation and working outside the UK.
3. Excludes people who live in communal establishments - values for number of cars in a household were imputed where this was missing
4. Percentages for distance to place of work do not include those working mainly from home

Table 11.34 All people aged 4 and over studying, distance to place of study by age: 2011^{1 2}

		Excluding those studying mainly from home										
Study mainly at or from home		Less than 2km	2 km to less than 5 km	5 km to less than 10 km	10 km to less than 20 km	20 km to less than 30 km	30 km to less than 40 km	40 km to less than 60 km	60 km and over	Other	Total Number (=100%)	
		row percentages										
All	12.4	49.3	23.4	11.7	7.5	2.7	1.4	1.2	1.0	1.7	996,282	
By age:												
4 to 11	11.8	72.3	15.9	6.3	2.9	0.9	0.4	0.4	0.4	0.4	386,410	
12 to 15	11.1	42.0	32.0	13.6	8.0	2.0	0.8	0.5	0.6	0.4	241,975	
16 to 17	10.7	34.2	30.6	15.8	10.9	3.8	1.6	1.2	1.1	0.7	101,169	
18 and over	15.2	27.6	23.5	16.4	12.4	5.8	3.5	3.0	2.3	5.2	266,728	

Source: Scottish Census 2011, National Records of Scotland

1. The distance travelled is a calculation of the straight line between the postcode of place of residence and postcode of place of study
2. Percentages for distance to place of study do not include those studying mainly from home

Table 11.35 All people aged 4 and over studying, mode of transport to place of study by distance: 2011

		Excluding those studying mainly from home									
Study mainly at or from home		Train, underground, metro, light rail or tram	Bus, minibus or coach	Driver, car or van	Passenger, car or van	Bicycle	On foot	Other	Total Number (=100%)		
		row percentages									
By distance:											
All	12.4	3.7	24.6	5.3	19.1	1.2	44.7	1.5	996,282		
Less than 2km		0.3	6.2	0.8	17.3	1.2	73.3	0.8	429,936		
2km to less than 5km		2.6	40.9	4.6	26.2	1.6	22.2	1.8	203,907		
5km to less than 10km		6.1	52.1	9.4	20.2	0.8	9.0	2.4	102,246		
10km to less than 20km		11.5	46.2	14.7	16.4	0.3	8.3	2.6	65,101		
20km to less than 30km		17.9	35.7	20.5	14.5	0.3	8.9	2.1	23,802		
30km to less than 40km		25.5	29.7	20.9	11.6	0.4	10.1	1.8	12,406		
40km to less than 60km		23.3	27.7	22.8	10.7	0.5	13.3	1.8	10,174		
60km and over		14.1	25.2	15.6	10.7	1.6	30.7	2.1	10,245		
Other		4.5	21.0	16.5	5.1	3.2	46.1	3.7	14,536		

Source: Scottish Census 2011, National Records of Scotland

1. The distance travelled is a calculation of the straight line between the postcode of place of residence and postcode of place of study

Chapter 12: International Comparisons

• Transport comparisons with EU-28 countries • Population • Travel • Freight • Infrastructure

Scotland has

higher car use

than the EU average but

lower car

ownership



25% - modal share of pipeline freight in Scotland in 2017, the highest of any EU country



Scotland had **less road and rail network** for its size compared to the EU average in 2017



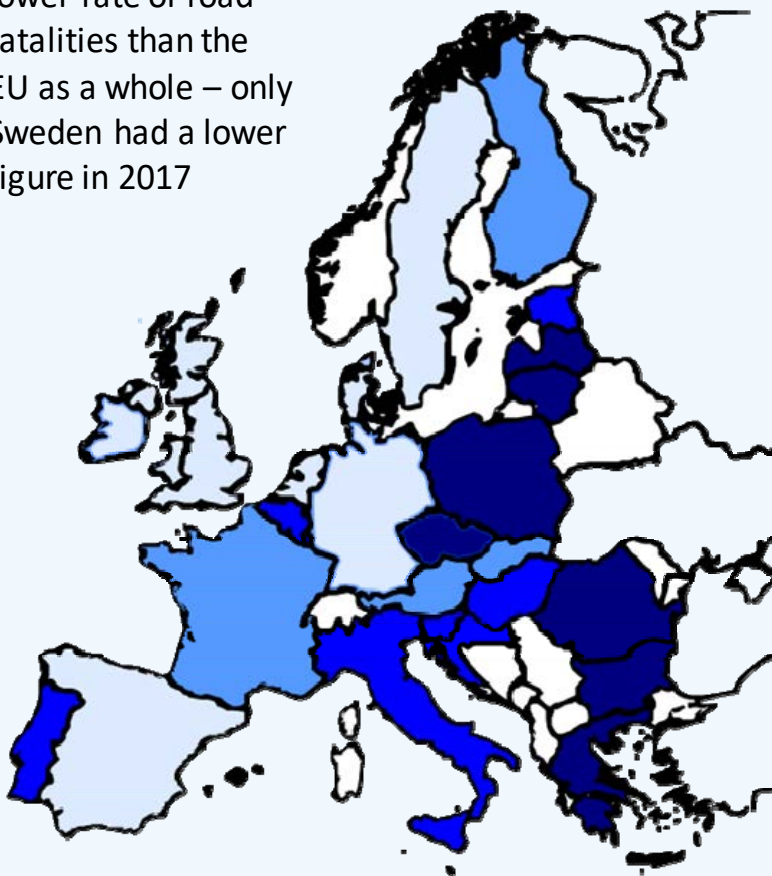
Scotland has a **small population** - larger than only nine other EU-28 countries

Scotland has a **low population density** - higher than only seven other EU-28 countries



2.38 international EU air passengers per head in Scotland in 2017 – higher than the overall EU figure (EU-28: 2.17)

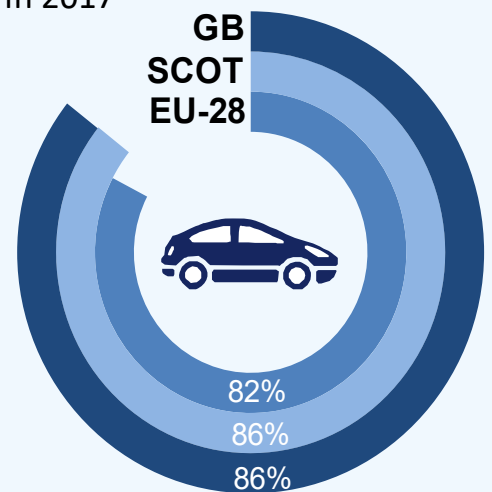
Scotland had a much lower rate of road fatalities than the EU as a whole – only Sweden had a lower figure in 2017



20-40 41-55 56-65 66-100

Road accident fatalities per million population

Cars made up a higher **share of distance travelled** in Scotland and GB than in the EU in 2017



463 cars per thousand population in Scotland – lower than the EU as a whole in 2017
EU-28: 516



For web publication and further information, visit http://bit.ly/STS_alliterations



INTERNATIONAL COMPARISONS

1. Introduction

1.1 This chapter compares some statistics for Scotland with the 28 EU member countries over a mixture of years. Due to the increased EU membership over the years overall comparisons with EU-15 and EU-28 countries are made.

1.2 Due to definitional variations across countries comparisons may not be exact (see Sections 3, 4 & 5), especially where noticeable difference exist between the UK figure and the *UK/GB calculated on the same basis* as the figure for Scotland.

1.4 In some cases, the EU countries' figures do not all relate to the same year. (See the Notes and Definitions section, page 228). Because of such differences, the commentary in Section 2 generally does not reference the year. General trends will tend to be similar over recent years and so the impact of this should be minimal.

Key Points

- **Scotland has less road and rail network by area compared to the EU average.**
- **Scotland has higher car use than the EU average but lower car ownership**
- **The proportion of freight carried by road is lower than in the rest of the EU due to the higher proportion carried by pipeline in Scotland.**

2. Main points

Population

2.1 Scotland has a low population: only nine of the EU-28 (Ireland, Croatia, Lithuania, Slovenia, Latvia, Estonia, Cyprus, Luxembourg and Malta) have fewer people. Scotland also has a low population density (70 people per square kilometre) compared with the overall EU average (EU-15: 123; EU-28: 115). Only seven of the EU-28 countries (Bulgaria, Estonia, Finland, Ireland, Lithuania, Latvia and Sweden) have a lower population density than Scotland.

Road Network

2.2 For its area, Scotland has a short Motorway network (6.1 km of Motorway per thousand square kilometres), well below the overall EU figure (EU-15: 20.4; EU-28: 17.3). Six of the EU-28 countries (Estonia, Finland, Lithuania, Poland, Romania and Sweden) have a lower figure than Scotland. This does not include Latvia and Malta which have no motorway.

2.3 The total length of the Scottish road network relative to the area of the country is 13 per cent below the EU-28 average when 'other roads' and unclassified roads in Scotland are excluded (Scotland: 369 km of road per thousand square kilometres; EU-15: 445; EU-28: 424).

2.4 Scotland has a short rail network for its area (36.2 km of route per thousand square kilometres) compared with the overall EU figure (EU-15: 46.5; EU-28: 48.6). Nine of the 28 EU countries (Estonia, Finland, Greece, Ireland, Latvia, Lithuania, Portugal, Spain and Sweden) have a lower value than Scotland. This does not include Cyprus and Malta which do not have a railway network.

Vehicles per Population

2.5 Scotland has few cars for the size of its population (463 per thousand population) compared with the EU as a whole (EU-15: 527; EU-28: 516). Eight of the EU-28 countries have lower figures than Scotland.

2.6 Scotland also has few goods vehicles relative to the size of its population (62 per thousand population) compared with the overall EU average (EU-15: 76; EU-28: 75). Of the EU-28, eleven countries have lower figures.

2.7 The number of new vehicle registrations in Scotland was relatively high (35 per thousand population), higher than the EU-15 and EU-28 averages – only five of the EU-28 countries had higher rates (Austria, Belgium, Germany, Denmark and Luxembourg).

Distances travelled

2.8 Walking, cycling and motorcycles are excluded from the calculation of these modal shares, for consistency with the figures in the relevant table of the EU publication. That table shows just four modes (passenger cars, buses/coaches, railways and tram/metro) and gives their shares of the total for those four modes. Passenger cars account for a slightly higher percentage of the total travel by those four modes in Scotland (85.7%) than the EU as a whole (EU-15 82.8%; EU-28: 81.8%).

Air travel

2.9 Relative to the size of its population, Scotland has more international air passengers to or from the EU-28 countries (2.38 per head of the population, not counting internal UK traffic) than the overall EU figure (EU-15: 2.46; EU-28: 2.17).

Road Fatalities

2.10 Scotland's number of road deaths per million population is well below the overall EU average (Scotland: 27; EU-15: 43; EU-28: 49). Of the EU-28 countries, only one country (Sweden) had a lower figure.

Freight

2.11 For freight transport, road has a low modal share in Scotland (63.1%) compared with the overall EU figure (EU-15: 73.0%; EU-28: 73.8%). The modal share of pipelines (24.8%) was higher than in any EU country. The modal shares of rail and inland waterways in Scotland are both below the overall figures for the EU-28.

3.1 Table Comparisons

- Rates (per thousand population or per thousand square km) are based on the countries' areas and populations presented in *EU Energy and Transport in Figures*. As figures are rounded to a few decimal places, results won't be as precise as they using exact figures. Therefore figures should be regarded as broad indicators;
- Country figures may not be on *exactly* the basis due to the availability of data. There is plenty of scope for differences in interpretation or definition (e.g. should the surface area of inland lochs and lakes be included when calculating a country's area?);
- Scotland figures may differ from those elsewhere in *Scottish Transport Statistics* in order to provide Scottish figures on the same basis as the GB or UK figures given in the final two columns.

INTERNATIONAL COMPARISONS

- GB and UK figures are on the same basis as the figures for Scotland. The closer that these figures are to the UK (or GB) figures from *EU Energy and Transport in Figures* (columns to the left of the EU-15 and EU-28), the closer that the Scottish basis is to the EU countries.
- Many of the Scotland figures are derived from GB-wide surveys conducted by the Department for Transport and UK figures may not be as readily available. As Northern Ireland may account for a small percentage of a UK figure, there is likely to be little difference between figures for GB and UK, particularly for rates.
- Some of the Scotland, GB and/or UK figures appear with more significant digits than the figures for the EU countries, increasing the precision of the rates.

Table 12.1 International comparisons

		EU countries																			
		from EU Energy and Transport in Figures (2017 edition)																			
Year of data (most countries)	Other year/issues (some countries)	EU publication table	Scottish figure (same or a similar basis) (#)	Austria	Belgium	Bulgaria	Cyprus	Czech Republic	Germany	Denmark	Estonia	Greece (+)	Spain	Finland	France	Croatia	Hungary	Ireland	Italy	Lithuania	
		SCOT	AT	BE	BG	CY	CZ	DE	DK	EE	EL	ES	FI	FR	HR	HU	IE	IT	LT		
General data																					
Population (at 1 Jan)																					
million	2018	1.1	5.44	8.82	11.40	7.05	0.86	10.61	82.79	5.78	1.32	10.74	46.66	5.51	66.93	4.11	9.78	4.83	60.48	2.81	
Area																					
'000 sq km		1.1	78.0	83.9	30.5	111.0	9.3	78.9	357.1	43.1	45.2	132.0	506.0	338.4	633.1	56.6	93.0	70.3	301.3	65.3	
Population density (at 1 Jan)																					
people per sq km	2018	calc'd	70	105	373	64	93	135	232	134	29	81	92	16	106	73	105	69	201	43	
Infrastructure and vehicles																					
Motorways																					
km	2017	2.5.1	476	1,743	1,763	734	257	1,240	13,009	1,308	154	2,133	15,523	893	11,618	1,310	1,937	916	6,943	324	
km per '000 sq km	2017	calc'd	6.1	20.8	57.8	6.6	27.8	15.7	36.4	30.3	3.4	16.2	30.7	2.6	18.4	23.1	20.8	13.0	23.0	5.0	
All roads (@)																					
'000 km	2017	2.5.2	28.7	36.2	16.3	7.7	4.8	55.7	229.9	74.7	16.6	42.0	165.6	26.9	398.5	17.8	32.0	18.4	183.0	21.2	
km per '000 sq km	2017	calc'd	369	432	535	69	519	707	644	1,733	367	318	327	80	629	315	344	262	607	325	
Railways																					
km	2017	2.5.3	2,819	4,953	3,605	4,030	0	9,408	39,219	2,487	1,033	2,240	15,904	5,926	28,120	2,605	7,752	1,894	17,105	1,911	
km per '000 sq km	2017	calc'd	36.2	59.0	118.1	36.3	-	119.3	109.8	57.7	22.8	17.0	31.4	17.5	44.4	46.0	83.3	26.9	56.8	29.3	
Passenger cars																					
million	2017	2.6.2	2.46	4.90	5.80	2.77	0.53	5.54	46.47	2.53	0.73	5.28	23.50	3.42	32.01	1.60	3.47	2.09	38.52	1.36	
per 1,000 pop'n	2017	calc'd	463	555	509	393	609	522	561	438	550	492	504	621	478	389	355	432	637	483	
Powered two wheelers (\$)																					
thousands	2017 02 & '04	2.6.5	70	832	631	181	39	1,102	4,373	198	52	1,583	5,285	604	3,034	154	167	40	9,218	42	
Goods vehicles																					
thousands	2017	2.6.4	332	476	887	423	108	694	3,242	438	115	1,344	5,143	605	6,742	168	543	349	4,256	116	
per 1,000 pop'n	2017	calc'd	62	54	78	60	125	65	39	76	87	125	110	110	101	41	55	72	70	41	
New registrations of passenger cars																					
thousands	2018	2.6.6	188	341	550	38	13	261	3,436	218	26	103	1,321	120	2,173	60	137	126	1,910	32	
per 1,000 pop'n	2018	calc'd	35	39	48	5	15	25	41	38	20	10	28	22	32	15	14	26	32	12	
Passenger transport &																					
Distance travelled (kilometres per person per year)																					
Passenger cars	2017	2.3.4 * &	8,557	9,324	9,421	8,121	7,671	7,026	11,339	10,445	9,943	9,461	7,154	12,103	11,097	6,304	6,190	11,819	12,295	11,012	
Powered two-wheeler	2002	prev. **	55	198	100	n/a	n/a	n/a	217	144	n/a	2,013	334	171	201	n/a	n/a	93	1,188	n/a	
Buses and coaches	2017	2.3.5 * &	651	1,240	1,177	1,486	1,797	1,672	757	1,270	2,135	1,900	656	1,496	854	999	1,869	2,052	1,703	962	
Tram / metro	2017	2.3.6 * &	0	819	123	151	0	1,034	208	59	91	157	164	101	249	146	311	39	111	0	
Railways (excl. t/m)	2017	2.3.7 * &	778	1,443	896	202	0	889	1,160	1,092	278	103	591	776	1,494	177	789	444	879	111	
Cycling	2001	prev. **	56	136	322	n/a	n/a	n/a	291	936	n/a	76	20	251	75	n/a	n/a	184	154	n/a	
Walking	2001	prev. **	288	419	380	n/a	n/a	n/a	372	431	n/a	389	368	386	404	n/a	n/a	368	410	n/a	
Total these modes		calc'd	10,385	13,579	12,418	9,959	9,468	10,621	14,345	14,377	12,447	14,100	9,287	15,285	14,375	7,627	9,159	14,999	16,739	12,084	

Table 12.1 International comparisons

																	Scotland/ GB/ UK figures (#)		
Year of data (most countries)	Other year/issues (some countries)	EU publication table	Scottish figure (same or a similar basis) (#)	Luxembourg	Latvia	Malta (+)	Netherlands	Poland	Portugal	Romania	Sweden	Slovenia	Slovak Republic	UK	EU-28	EU-15	Scotland	GB (same basis)	UK (same basis)
			SCOT	LU	LV	MT	NL	PL	PT	RO	SE	SI	SK	UK	EU-28	EU-15	SCOT	GB	UK
General data																			
Population (at 1 Jan)																			
million	2018	1.1	5.44	0.60	1.93	0.48	17.18	37.98	10.29	19.53	10.12	2.07	5.44	66.27	512.38	408.42	5.44	64.55	66.44
Area																			
'000 sq km		1.1	78.0	2.6	64.6	0.3	41.5	312.69	92.1	238.4	450.3	20.3	49.0	243.8	4,470.58	3326.1	78.0	229.0	243.8
Population density (at 1 Jan)																			
people per sq km	2018	calc'd	70	233	30	1505	414	121	112	82	22	102	111	272	115	123	70	282	272
Infrastructure and vehicles																			
Motorways																			
km	2017	2.5.1	476	165	-	-	2,758	1,640	3,065	763	2,132	783	482	3,803	77,396	67,773	461	3,688	3,803
km per '000 sq km	2017	calc'd	6.1	63.8	-	-	66.4	5.2	33.3	3.2	4.7	38.6	9.8	15.6	17.3	20.4	6.1	16.1	15.6
All roads (@)																			
'000 km	2017	2.5.2	28.7	2.9	7.1	2.9	13.2	156.8	14.3	52.8	172.9	20.1	18.0	86.2	1,895	1,481	28.7	165.1	175.1
km per '000 sq km	2017	calc'd	369	1,117	110	9,036	317	502	155	221	384	989	368	353	424	445	369	721	718
Railways																			
km	2017	2.5.3	2,819	275	1,860	0	3,055	18,513	2,546	10,766	10,874	1,209	3,626	16,320	217,236	154,523	2,819	15,878	16,218
km per '000 sq km	2017	calc'd	36.2	106.3	28.8	-	73.6	59.2	27.6	45.2	24.1	59.6	73.9	66.9	48.6	46.5	36.2	69.3	66.5
Passenger cars																			
million	2017	2.6.2	2.46	0.40	0.69	0.29	8.37	22.50	5.06	6.00	4.84	1.12	2.22	32.20	264.21	215.40	2.46	31.20	32.16
per 1,000 pop'n	2017	calc'd	463	670	357	613	487	593	492	307	479	541	408	486	516	527	463	483	484
Powered two wheelers (\$)																			
thousands	2017 02 & '04	2.6.5	70	30	53	25	1,873	2,755	593	127	611	125	133	1,256	35,118	30,161	70	1,234	1,256
Goods vehicles																			
thousands	2017	2.6.4	332	43	87	47	1,023	3,640	1,337	975	633	103	317	4,535	38,388	31,053	332	4,398	4,535
per 1,000 pop'n	2017	calc'd	62	72	45	99	60	96	130	50	62	50	58	68	75	76	62	68	68
New registrations of passenger cars																			
thousands	2018	2.6.6	188	53	17	8	444	532	228	129	354	65	98	2,367	15,162	13,745	188	2,342	2,394
per 1,000 pop'n	2018	calc'd	35	87	9	17	26	14	22	7	35	32	18	36	30	34	35	36	36
Passenger transport &																			
Distance travelled (kilometres per person per year)																			
Passenger cars	2017	2.3.4 * &	8,557	12,992	7,681	5,688	8,120	5,418	8,942	4,953	11,608	13,134	5,174	10,187	9,582	10,447	8,557	8,684	
Powered two-wheeler	2002	prev. **	55	130	n/a	n/a	55	n/a	754	n/a	111	n/a	n/a	85	n/a	405	55	58	
Buses and coaches	2017	2.3.5 * &	651	1,939	1,111	1,208	270	950	719	925	998	1,781	1,090	600	998	948	651	565	
Tram / metro	2017	2.3.6 * &	0	0	66	0	52	114	109	404	265	0	52	220	210	193	0	117	
Railways (excl. t/m)	2017	2.3.7 * &	778	742	306	0	1,079	535	438	288	1,334	276	691	1,047	918	1,028	778	779	
Cycling	2001	prev. **	56	23	n/a	n/a	848	n/a	29	n/a	271	n/a	n/a	75	n/a	186	56	67	
Walking	2001	prev. **	288	457	n/a	n/a	377	n/a	342	n/a	383	n/a	n/a	355	n/a	382	288	286	
Total these modes		calc'd	10,385	16,283	9,162	6,896	10,801	7,017	11,333	6,571	14,969	15,192	7,007	12,569	11,708	13,589	10,385	10,557	

Table 12.1 International comparisons

Year of data (most countries)	Other year/issues (some countries)	EU publication table	Scottish figure (same or a similar basis) (#)	EU countries																	
				Austria	Belgium	Bulgaria	Cyprus	Czech Republic	Germany	Denmark	Estonia	Greece (+)	Spain	Finland	France	Croatia	Hungary	Ireland	Italy	Lithuania	
			SCOT	AT	BE	BG	CY	CZ	DE	DK	EE	EL	ES	FI	FR	HR	HU	IE	IT	LT	
Modal shares & (% of total pass-kms for specified modes)																					
Passenger cars	2017	2.3.3 (^)	85.7	72.7	81.1	81.5	81.0	66.2	84.2	81.2	79.9	81.4	83.5	83.6	81.0	82.7	67.6	82.3	82.0	91.1	
Bus and coach	2017	2.3.3	6.5	9.7	10.1	14.9	19.0	15.7	5.6	9.9	17.2	16.4	7.7	10.3	6.2	13.1	20.4	14.3	11.4	8.0	
Railways (excl. t/m)	2017	2.3.3	7.8	11.2	7.7	2.0	-	8.4	8.6	8.5	2.2	0.9	6.9	5.4	10.9	2.3	8.6	3.1	5.9	0.9	
Tram / metro	2017	2.3.3	0.0	6.4	1.1	1.5	-	9.7	1.5	0.5	0.7	1.3	1.9	0.7	1.8	1.9	3.4	0.3	0.7	-	
Total pass km these	2017	As distance travelled calc'd	9,986	12,826	11,616	9,959	9,468	10,621	13,465	12,867	12,447	11,622	8,565	14,477	13,694	7,627	9,159	14,354	14,987	12,084	
International air passenger traffic between EU countries (arrivals plus departures)																					
million	2017	2.4.1***	12.65	20.09	24.52	8.79	6.81	11.45	141.73	24.68	2.12	41.66	179.92	15.24	99.60	7.40	10.61	28.80	116.81	4.00	
per head of pop'n	2017	calc'd	2.38	2.28	2.15	1.25	7.88	1.08	1.71	4.27	1.61	3.88	3.86	2.76	1.49	1.80	1.08	5.96	1.93	1.42	
Road fatalities																					
number	2017	2.7.1	145	414	615	682	53	577	3,180	175	48	731	1,830	238	3,444	331	625	156	3,378	191	
per million pop'n	2017	calc'd	27	47	54	97	61	54	38	30	36	68	39	43	51	81	64	32	56	68	
Freight transport: modal shares (Thousand million tonne-kms)																					
Road	2017	2.2.4c	14.9	26.0	34.2	35.2	0.8	44.3	313.1	15.5	6.2	28.4	231.1	28.0	167.7	11.8	39.7	11.8	119.7	39.1	
Rail	2017	2.2.5	2.6	22.3	7.3	3.9	-	15.8	112.2	2.7	2.3	0.4	10.7	10.4	33.4	2.6	13.4	0.1	22.3	15.4	
Inland waterway	2017	2.2.6	0.3	2.0	11	5.3	-	0	56	-	-	-	-	0.1	7.5	0.813	2.0	-	0.1	-	
Pipeline	2017	2.2.7	5.8	8.4	1.6	0.7	-	2.2	18.2	2.2	-	0.0	9.7	-	11.2	1.8	2.4	-	10.3	0.4	
Total these modes	2017	calc'd	23.6	58.7	54.2	45.1	1	62.3	499.1	20.4	9	28.8	251.5	38	219.8	17.0	57.4	12	152.3	54.9	
Freight transport: modal shares (% of total tonne-kms)																					
Road	2017	2.2.4c *	63.1	44.3	63.1	78.0	100.0	71.1	62.7	76.0	72.7	98.7	91.9	72.8	76.3	69.6	69.1	99.2	78.6	71.2	
Rail	2017	2.2.5 *	11.1	37.9	13.5	8.7	#####	25.4	22.5	13.0	27.3	1.2	4.2	27.0	15.2	15.2	23.3	0.8	14.7	28.1	
Inland waterway	2017	2.2.6 *	1.1	3.4	20.5	11.7	-	0.0	11.1	-	-	-	-	0.3	3.4	4.8	3.5	-	0.0	-	
Pipeline	2017	2.2.7 *	24.8	14.3	3.0	1.6	-	3.5	3.7	11.0	-	0.1	3.9	-	5.1	10.4	4.2	-	6.7	0.7	

(#) (+) (@) (\$) (^) (*) (**) (***) (&) - see footnotes

Table 12.1 International comparisons

Year of data (most countries)	Other year/issues (some countries)	EU publication table	Scottish figure (same or a similar basis) (#)	Luxembourg	Latvia	Malta (+)	Netherlands	Poland	Portugal	Romania	Sweden	Slovenia	Slovak Republic	UK	EU-28	EU-15	Scotland/ GB/ UK figures (#)		
																	SCOT	LU	LV	MT	NL	PL	PT	RO	SE	SI	SK	UK	EU-28	EU-15	SCOT	GB (same basis)	UK (same basis)
Modal shares & (% of total pass-kms for specified modes)																			
Passenger cars	2017	2.3.3 (^)	85.7	82.9	83.8	82.5	85.3	77.2	87.6	75.4	81.7	86.5	73.8	84.5	81.8	82.8	85.7	85.6	
Bus and coach	2017	2.3.3	6.5	12.4	12.1	17.5	2.8	13.5	7.0	14.1	7.0	11.7	15.6	5.0	8.5	7.5	6.5	5.6	
Railways (excl. t/m)	2017	2.3.3	7.8	4.7	3.3	-	11.3	7.6	4.3	4.4	9.4	1.8	9.9	8.7	7.8	8.1	7.8	7.7	
Tram / metro	2017	2.3.3	0.0	-	0.7	-	0.5	1.6	1.1	6.1	1.9	-	0.7	1.8	1.8	1.5	0.0	1.2	
Total pass km these	2017	As distance travelled calc'd	9,986	15,673	9,162	6,896	9,521	7,017	10,208	6,571	14,204	15,192	7,007	12,054	11,708	12,617	9,986	10,145	
International air passenger traffic between EU countries (arrivals plu million)																			
	2017	2.4.1***	12.65	3.22	4.42	5.50	48.37	30.25	39.11	15.71	31.34	1.82	1.01	188.61	1113.56	1,003.69	12.65	164.24	
per head of pop'n	2017	calc'd	2.38	5.34	2.28	11.56	2.82	0.80	3.80	0.80	3.10	0.88	0.19	2.85	2.17	2.46	2.37	2.47	
Road fatalities																			
number	2017	2.7.1	145	25	136	19	535	2,831	602	1,951	253	104	276	1,856	25,256	17,432	145	1,793	
per million pop'n	2017	calc'd	27	42	70	40	31	75	58	100	25	50	51	28	49	43	27	28	
Freight transport: modal shares (Thousand million tonne-kms)																			
Road	2017	2.2.4c	14.9	9.4	15.0	0.3	67.5	335.2	34.2	54.7	41.9	20.8	35.4	153.9	1,921	1,282	14.9	147.0	
Rail	2017	2.2.5	2.6	0.2	15.0	-	6.5	54.8	2.8	13.8	21.8	5.1	8.5	17.2	421	270	2.6	17.2	
Inland waterway	2017	2.2.6	0.3	0	-	-	49	0.1	-	12.5	0	-	0.9	0.1	147	126	0.3	0.1	
Pipeline	2017	2.2.7	5.8	-	1.4	-	6.1	21.1	0.4	1.1	-	-	4.8	10.0	114	78	5.8	4.8	
Total these modes	2017	calc'd	23.6	10	31.4	0	129.2	411.2	37.4	82.1	64	26	49.6	181.2	2,603	1,756	23.6	169.1	
Freight transport: modal shares (% of total tonne-kms)																			
Road	2017	2.2.4c *	63.1	96.0	47.7	100.0	52.3	81.5	91.5	66.6	65.7	80.2	71.4	85.0	73.8	73.0	63.1	87.0	
Rail	2017	2.2.5 *	11.1	2.0	47.8	-	5.0	13.3	7.4	16.8	34.3	19.8	17.1	9.5	16.2	15.4	11.1	10.2	
Inland waterway	2017	2.2.6 *	1.1	2.0	-	-	37.9	0.0	-	15.2	0.0	-	1.9	0.1	5.7	7.2	1.1	0.1	
Pipeline	2017	2.2.7 *	24.8	-	4.5	-	4.8	5.1	1.1	1.3	-	-	9.7	5.5	4.4	4.5	24.8	2.8	

(#) (+) (@) (\$) (^) (*) (**) (***) (&) - see footnotes

- (#) These are the nearest available figures for Scotland, and comparable figures for GB or UK as a whole - information on sources is given in the text. These may be on a different basis from other countries.
- (+) All roads data relates to the end of 2005, except for motorway estimate.
- (@) The definitions of road types vary from country to country. Some countries' figures may include the lengths of some roads which do not have a hard surface.
- (\$) The notes on the sources of the statistics explain why there appears to be a large inconsistency between the EU publication's figure for the UK and the (DfT) figure for GB.
- (^) UK figure is for GB only.
- (*) Calculated from the figures in that table, which gives the total number of passenger/tonne-kilometres for the country as a whole (in 100/1000 millions).
- (&) National Travel Survey data is only collected for England now. Figures for Scotland and GB are for the last time they were available in 2012.
- (**) As shown in (or as calculated from figures in) a previous edition - the 2012 edition does not provide any figures for powered two-wheelers, cycling or walking.
- (***) Data calculated by adding together the total number of journeys across each row in Table 2.4.1
- n/a or 0 In general, n/a is used where a figure is not available, and 0 is used where a figure is nil. However, n/a may be treated as if it were 0 for the purpose of some calculations.

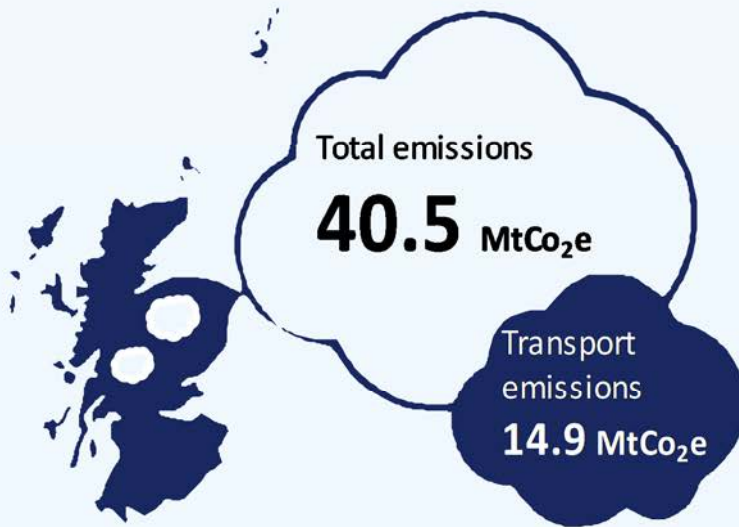
Chapter 13: Environment and Emissions

- Impact of transport on the environment
- Atmospheric pollutants
- Greenhouse gas emissions by type of transport
- Vehicle emission levels

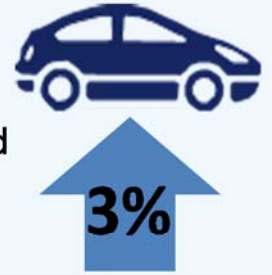
Transport accounted for

37%

of Scotland's **greenhouse gas emissions** in 2017



The average CO₂ emissions for newly registered cars increased by 3% between 2017 and 2018.



14,803 Ultra Low Emission

Vehicles registered in Scotland at the end of September 2019 (a 19% increase since the end of March 2019)



+5.4%
(Including international aviation)



+10%



+2.3%

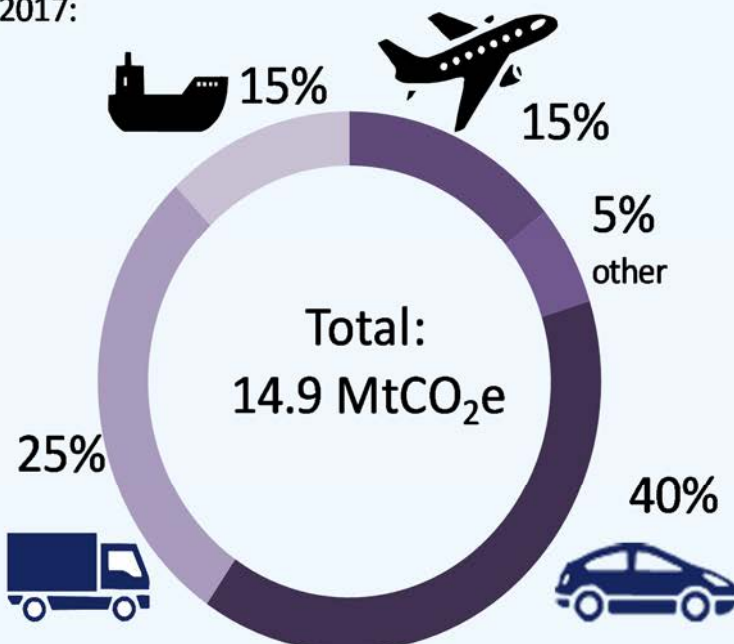


Domestic air travel is the **highest emitter** per passenger kilometre



1,226 electric charge points in Scotland in 2019

Share of transport GHG emissions by mode, 2017:



The **lowest emitters** per passenger-kilometre are coaches, light rail and tram. Petrol cars are the second highest after domestic air travel



2% increase in **road transport's share of GHG emissions** between 2016 and 2017

For web publication and further information, visit http://bit.ly/STS_all Editions



ENVIRONMENT AND EMISSIONS

1 Introduction

1.1 This chapter provides information about the impact of transport on certain aspects of the environment with a focus on greenhouse gas emissions and air quality. Statistics include atmospheric pollutants and emissions of greenhouse gases by types of transport as well as details of emissions levels of road vehicles. Data from other chapters within Scottish Transport Statistics are referred to in the analysis.

1.2 Three new tables have been added to this chapter providing information on the number of public Electric Vehicle (EV) charge points that are now available in Scotland on the ChargePlace Scotland (CPS) network.

Key points

- **Transport (including international shipping and aviation) accounts for 37% of Scotland's greenhouse gas emissions under the definition set out in the Climate Change Scotland Act.**
- **Road transport makes up 69% of transport greenhouse gas emissions.**
- **Through September of the current year (2019) there were 3,537 Ultra Low Emission Vehicles registered in Scotland for the first time – 39% up on the corresponding period in 2018.**
- **In 2017, transport accounted for 60% of emissions of oxides of nitrogen, 18% of particulate matter PM₁₀ and 24% of particulate matter PM_{2.5}. As at 15 October 2019, there were 38 active Air Quality Management Areas related to these pollutants.**

2 Main Points

Air pollutant emissions

2.1 The main pollutants of current concern in Scotland are:

- Oxides of nitrogen (NO_x);
- Particulate matter (PM10 and PM2.5);
- Sulphur dioxide (SO₂);
- Non-methane volatile organic compounds (NMVOCs);
- Ground-level ozone (O₃); and
- Ammonia (NH₃).

2.2 Of these, transport is a significant contributor to emissions of oxides of nitrogen and particulate matter. Transport is also linked to ground level ozone, which is a secondary pollutant produced by chemical reactions involving oxides of nitrogen.

2.3 Historically, transport was also a major contributor to emissions of lead and non-methane volatile organic compounds (NMVOCs). The significant decline in lead emissions (99% since 1990) has been mainly driven by the progressive phasing out of leaded petrol. The lead content of petrol was reduced from around 0.34 g/l to 0.143 g/l in 1986. From 1987, sales of unleaded petrol increased, particularly as a result of the increased use of cars fitted with three-way catalysts. Leaded petrol was phased out from general sale at the end of 1999. For NMVOCs, transport sector emissions declined significantly during the 1990s due to the increased use of catalytic converters and fuel switching from petrol to diesel cars. (Chart 13.1a).

2.4 Emissions of nitrogen oxides (NO_x) were estimated to be 93kt in 2017 of which transport accounted for 60%. Since 1990, transport emissions have declined by 71%. Transport emissions have declined due to a number of reasons including the requirement for new petrol cars to be fitted with three-way catalysts since 1989 and, in more recent years, “Euro standards” for new cars have driven a reduction in emissions, although studies show that the diesel Euro 5 cars have not performed as well as expected. Since 2008, there has been a general reduction in the emissions from passenger cars, mainly driven by improvement in catalyst repair rates. In 2017, diesel cars and light goods vehicles (LGVs) accounted for 36% of NO_x emissions from transport compared with less than 2% in 1990 (Table 13.1a).

2.5 Emissions of PM₁₀ were estimated to be 15kt in 2017, of which transport accounted for 18%. Since 1990, transport emissions have declined by 63%. For particulate matter, the main source of transport emissions is non-exhaust emissions from tyre and brake wear and road abrasion. In 2017, these accounted for 50% of PM₁₀ emissions from transport compared with 14% in 1990. Since 1990, exhaust emissions from road transport have decreased by 79% due to the penetration of new vehicles meeting tighter PM₁₀ emission regulations (“Euro standards” for diesel vehicles were first introduced in 1992). Over the same period emissions from shipping fell by 82% (Table 13.1a).

2.6. Emissions of PM_{2.5} were estimated to be 8kt in 2017 of which transport accounted for 24%. Trends in emissions of PM_{2.5} from transport follow a similar pattern to those for PM₁₀. PM_{2.5} accounts for all road transport exhaust PM₁₀ emissions and most of such emissions from shipping but only around 55% of PM₁₀ emissions due to road abrasion and tyre and brake wear.

Air quality

2.7 Concentrations of air pollutants are sampled at automatic monitoring sites and the information is held in the “Scottish Air Quality Database” on the “Air Quality in Scotland” website (<http://www.scottishairquality.co.uk/>). The data section of the “Air Quality in Scotland” website provides detailed information on all sites while the publication section of the website includes reports showing trends. Table 13.b in this publication shows concentrations of nitrogen dioxide, ozone and PM₁₀ at a mixture of urban and rural monitoring sites with long time series. Air quality is monitored against standards set as air quality objectives (see Notes and Definitions section, page 225).

Nitrogen dioxide (NO₂)

2.8 For some of the selected monitoring sites, nitrogen dioxide concentrations show a downward trend. In 2018, 9 of the 11 selected operational sites that recorded nitrogen dioxide concentrations with a data capture rate of over 75% had the lowest concentrations recorded over the period 2008-2018. In 2010, concentrations at eight of the selected sites reached their highest value over the period 2008-2018. Note that this excludes figures for years where the data capture rate was 75% or lower. In 2018, 74 sites in Scotland recorded nitrogen dioxide concentrations with a data capture rate of over 75%, of which 50 were roadside or kerbside locations. Of these 74 sites, 6 had concentrations in excess of the air quality strategy objective of 40 µg/m³ as an annual mean. All 6 sites were located at the roadside or kerbside. (Table 13.1b)

Ozone (O₃)

2.8 Though transport emissions contribute to ozone formation, levels of ozone are generally higher in rural areas due to the long-range transportation of primary pollutants from urban sources. In addition, ozone reacts with nitric oxide, which is more abundant in

urban areas due to traffic emissions, to form nitrogen dioxide; therefore ozone levels are usually lower in urban areas. While at the selected monitoring sites there has been some indication of a downward trend in the number of occurrences of maximum daily concentrations exceeding $100 \mu\text{g}/\text{m}^3$, this has since levelled off. There appears to be no trend in average annual concentrations. In 2018, out of all 11 sites in Scotland recording ozone with a data capture rate of over 75%, two sites (Aberdeen Errol Place and Glasgow Townhead) did not have more than 10 occurrences of maximum daily concentrations exceeding $100 \mu\text{g}/\text{m}^3$. (Table 13.1b)

Particulate matter (PM₁₀)

2.9 PM₁₀ concentrations show a general downward trend at the selected sites. In 2018, of the 61 sites in Scotland recording PM₁₀ with a data capture rate over 75%, two roadside sites (Edinburgh Queensferry Road and Edinburgh Salamander St.) had concentrations greater than the air quality objective of $18 \mu\text{g}/\text{m}^3$ as an annual mean. Whilst no site exceeded the air quality objective set as 7 occurrences of a daily mean above $50 \mu\text{g}/\text{m}^3$, it was equalled at one site (East Dunbartonshire Bishopbriggs) (Table 13.1b)

Air Quality Management Areas

2.10 Whenever it appears that one or more of the air quality objectives is unlikely to be met by the required date, the local authority concerned must declare an Air Quality Management Area (AQMA) covering the area of concern. The authority must then prepare and implement an action plan outlining how it intends to tackle the issues identified. Table 13.1c summarises active AQMAs and the pollutants of concern. As at 15 October 2019, there were 38 active AQMAs, all but one of which related to either NO₂ or PM₁₀, or both.

Greenhouse gases

2.11 In 2017, Transport (*including* international aviation and shipping) accounted for 14.9 million tonnes of carbon dioxide equivalent (MtCO_{2e}). This represents 36.8% of total net greenhouse gas emissions allocated to Scotland in the *Greenhouse Gas Inventories*, down from 37.3% in 2016. Total net emissions from *all* sources increased by 4.69% between 2016 and 2017 rising from 38.6 MtCO_{2e} to 40.5 MtCO_{2e}, before making an adjustment to account for the EU Emissions Trading System with transport total emissions also having increased from 14.4 MtCO_{2e} to 14.9 MtCO_{2e} a rise of 3.35%. Within Transport emissions, Road Transportation accounted for approximately 69.7% of the transport total. Heavy Goods Vehicles and Light Goods Vehicles were the other significant contributors to transport emissions accounting for 12.6%, each. International Aviation and Shipping contributed roughly 10.2% and domestic aviation 4.6% of transport's total emissions. The contribution from rail was 1.2% and domestic shipping, 13.1%. It should be noted that these estimates use a methodology designed to produce internationally-comparable figures so apparent year-to-year fluctuations could be due in part to limitations in or changes to the underlying data or calculations. See Table 13.2 for more detail and emissions from earlier years and Section 4.2 below for more detail on the methodology used.

2.12 Figure 13.2 shows transport emissions over time, by mode. Estimated car emissions have fallen by 6.2% since 2006. Traffic levels (vehicle km) have increased slightly over the last few years so the reduction in emissions seen will be due to the introduction of more fuel efficient vehicles as well as other more fuel efficient driving, particularly in the business fleet. More detail on car emissions is set out from paragraph 2.7 of this chapter while more details on traffic volumes by mode can be found in chapter 5 of STS. Details of personal modal choice can be found in chapter 11.

2.13 The *Greenhouse Gas Inventories* report the emissions of the six gases that are listed under the Kyoto Protocol. In the case of transport, the quantities of gases involved are relatively small except for carbon dioxide, which accounts for about 99 per cent of transport's total. (*Table 13.3*).

2.14 Table 13.4 presents some comparisons between the UK as a whole and Scotland. Overall, Scotland's transport emissions account for 8.6% of the UK total. At 18.3%, Scotland's total aviation emissions are above a proportionate share of the UK. At 13.1% Scottish bus emissions are above a proportionate share of the UK total, while domestic aviation, at 21%, is significantly above that benchmark.

2.15 Estimates of carbon dioxide emissions per passenger-km for different modes of transport are available only for GB/UK as a whole. The lowest emitting modes of land transport per passenger-km are coaches at 28 gCO₂e; and light rail and tram at 35 gCO₂e. Air travel tends to be the highest emitter per passenger-kilometre, particularly domestic flights, which account for 254 grams of CO₂ per passenger kilometre, inclusive of radiative forcing which accounts for higher levels of greenhouse gases emitted at altitude during the cruise phase (*Table 13.5*). The basis of these estimates is described in section 13.5 page 302.

Car emissions

2.16 Newly registered cars are becoming more fuel efficient and thus emit fewer emissions per kilometre. Figure 13.3 shows the steady downward trend in average CO₂ emissions for newly registered cars in Scotland. Average CO₂ emissions in Scotland for new car registrations has fallen by 21 per cent over the last ten years. However, the average for 2018 was 3 per cent higher than the previous year. (*Table 13.6a*)

2.17 More detail of this trend is shown in figure 13.4. The proportion of newly registered cars with emissions of 140g/km or lower has increased from 38 per cent in 2008 to 80 per cent in 2018. Cars with emissions of over 200g/km have decreased from 7 per cent of new cars to one per cent. These changes are at least in part the result of changes to vehicle excise duty bandings made by the UK Government in recent years.

Ultra low emission vehicles (ULEV)

2.18 The number of ultra-low emission vehicles registered in Scotland for the first time so far in 2019 is 39% up on the corresponding figure in 2019 (January – September). Almost all of these sales have been supported by Plug-in-Grant scheme for cars and vans. At the end of Q3 2019 there are 14,803 ULEVs registered in Scotland (*Table 13.7 and 13.8*)

Registrations by type of vehicle

2.19 The overwhelming majority (98 per cent) of vehicles licensed for use on the roads in Scotland are still powered by either petrol or diesel. Historically petrol powered vehicles have been outsold by diesel vehicles but overall there are more petrol vehicles on the road than diesel ones. While 29 per cent of all diesel vehicles are body types other than cars only 6 per cent of petrol vehicles were not cars. (*Table 13.9 and 13.10*)

Electric Vehicle (EV) charge points

2.20 In 2019, there were 1,226 public EV charge points on the ChargePlace Scotland network (CPS), 524 (75%) more than in 2017. Glasgow had the highest number with 119. 7.68 GWh was provided through the CPS network in 2019. A map showing the locations of the charging points in Scotland is available here <https://chargeplacescotland.org/cpmap/> (*Table 13.11*)

Table 13.1a Emissions of air pollutants by type of transport allocated to Scotland¹

	1990	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
	<i>thousand tonnes of pollutant</i>												
Oxides of nitrogen (NO_x)													
Road transport	105.5	47.5	46.1	43.5	35.8	33.9	31.9	30.7	29.7	28.8	27.7	26.6	26.2
<i>of which:</i> Buses and coaches	6.4	4.7	4.8	4.3	4.2	4.1	3.6	3.3	3.1	2.8	2.3	1.9	1.7
Passenger cars	70.5	21.7	20.0	19.4	14.9	13.8	13.2	12.9	12.6	12.5	12.4	12.2	12.1
<i>of which:</i> Diesel	0.9	7.6	7.9	8.5	8.6	8.7	9.0	9.5	9.9	10.3	10.5	10.6	10.7
Petrol	69.6	14.1	12.2	10.9	6.3	5.1	4.2	3.4	2.7	2.2	1.9	1.6	1.4
HGVs	19.4	14.9	15.2	13.9	11.2	10.5	9.3	8.3	7.1	5.9	4.7	3.6	2.8
Light goods vehicles	9.1	6.1	6.1	5.9	5.5	5.5	5.7	6.1	6.8	7.5	8.3	8.9	9.5
<i>of which:</i> Diesel	1.7	5.5	5.6	5.5	5.3	5.3	5.6	6.0	6.7	7.4	8.2	8.8	9.4
Petrol	7.4	0.6	0.5	0.4	0.2	0.2	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Mopeds and motorcycles	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0
Railways	2.1	2.1	2.1	2.1	2.2	2.2	2.3	2.2	2.2	2.3	2.2	2.2	2.2
Aviation	0.7	1.1	1.1	1.0	0.9	0.9	0.9	0.9	1.0	0.9	1.0	0.9	1.0
Shipping ⁶	38.7	31.3	32.3	30.5	28.8	27.2	24.0	23.4	21.7	22.8	22.7	22.9	25.2
Other transport	4.1	2.8	3.0	2.8	2.7	2.6	2.4	2.2	2.0	1.7	1.4	1.4	1.3
Total Transport	151.1	84.8	84.7	80.1	70.4	66.7	61.4	59.4	56.7	56.5	55.0	54.0	55.9
Non-transport emissions	172.9	99.1	90.3	78.4	69.5	70.7	59.1	59.8	56.9	53.0	50.3	39.9	36.9
Emissions from all sources	324.0	183.9	174.9	158.5	140.0	137.4	120.6	119.3	113.5	109.5	105.3	93.9	92.8
Transport % of all NO_x emissions	47%	46%	48%	51%	50%	49%	51%	50%	50%	52%	52%	57%	60%
Particulate matter (PM₁₀)													
Road transport ²	3.01	2.56	2.51	2.40	2.31	2.24	2.08	2.01	1.92	1.85	1.79	1.75	1.76
<i>of which:</i> exhaust emissions from:													
Buses and coaches	0.29	0.08	0.08	0.06	0.06	0.06	0.05	0.04	0.04	0.04	0.03	0.02	0.02
Passenger cars	0.49	0.49	0.48	0.49	0.48	0.45	0.38	0.36	0.33	0.29	0.28	0.25	0.23
HGVs	0.75	0.30	0.28	0.23	0.19	0.17	0.15	0.13	0.11	0.09	0.08	0.06	0.04
Light goods vehicles	0.49	0.45	0.42	0.38	0.36	0.36	0.31	0.28	0.24	0.20	0.18	0.16	0.14
Mopeds and motorcycles	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Road abrasion	0.35	0.43	0.44	0.43	0.43	0.42	0.42	0.42	0.42	0.43	0.43	0.44	0.45
Tyre and brake wear	0.64	0.79	0.81	0.80	0.79	0.78	0.77	0.77	0.77	0.79	0.80	0.82	0.87
Railways	0.09	0.11	0.10	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10
Aviation ³	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Shipping ^{4,6}	4.01	2.36	1.94	1.60	1.44	1.11	0.89	0.81	0.71	0.70	0.69	0.71	0.73
Other transport ⁵	0.17	0.13	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.04	0.04
Total Transport	7.29	5.17	4.70	4.25	3.98	3.57	3.18	3.02	2.82	2.73	2.64	2.61	2.64
Non-transport emissions	33.07	15.75	15.23	13.75	12.67	14.22	12.85	12.24	12.59	12.22	11.96	12.08	12.15
Emissions from all sources	40.36	20.92	19.93	18.00	16.65	17.79	16.03	15.25	15.41	14.95	14.60	14.70	14.79
Transport % of all PM₁₀ emissions	18%	25%	24%	24%	24%	20%	20%	20%	18%	18%	18%	18%	18%
Particulate matter (PM_{2.5})													
Road transport ²	2.56	2.01	1.95	1.85	1.76	1.70	1.55	1.48	1.39	1.30	1.24	1.18	1.17
<i>of which:</i> exhaust emissions from:													
Buses and coaches	0.29	0.08	0.08	0.06	0.06	0.06	0.05	0.04	0.04	0.04	0.03	0.02	0.02
Passenger cars	0.49	0.49	0.48	0.49	0.48	0.45	0.38	0.36	0.33	0.29	0.28	0.25	0.23
HGVs	0.75	0.30	0.28	0.23	0.19	0.17	0.15	0.13	0.11	0.09	0.08	0.06	0.04
Light goods vehicles	0.49	0.45	0.42	0.38	0.36	0.36	0.31	0.28	0.24	0.20	0.18	0.16	0.14
Mopeds and motorcycles	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Road abrasion	0.19	0.23	0.24	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.24	0.25
Tyre and brake wear	0.36	0.44	0.45	0.45	0.44	0.43	0.43	0.43	0.43	0.44	0.45	0.46	0.49
Railways	0.09	0.10	0.09	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Aviation ³	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Shipping ^{4,6}	3.80	2.23	1.84	1.52	1.37	1.05	0.84	0.77	0.68	0.67	0.65	0.68	0.69
Other transport ⁵	0.17	0.13	0.13	0.12	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.04	0.04
Total Transport	6.63	4.49	4.03	3.60	3.35	2.97	2.60	2.44	2.24	2.14	2.05	2.01	2.00
Non-transport emissions	19.3	8.3	8.0	7.5	7.0	7.7	6.8	6.8	6.7	6.4	6.4	6.4	6.3
Emissions from all sources	26.0	12.8	12.0	11.1	10.3	10.7	9.4	9.3	9.0	8.5	8.5	8.4	8.3
Transport % of all PM_{2.5} emissions	26%	35%	33%	33%	32%	28%	28%	26%	25%	25%	24%	24%	24%

Source: National Atmospheric Emissions Inventory - Not National Statistics

- From the Air Quality Pollutant Inventories for England, Scotland, Wales and Northern Ireland: 1990 - 2017.
Emissions are available annually only with effect from 1998. All the figures in this table are updated annually to reflect changes to the methodology used.
- The Road Transport emissions database uses emission factors (g/km) for different types of vehicles, which depend on the fuel type (petrol or diesel) and are influenced by the drive cycle or average speeds on the different types of roads; traffic activity for each DA region, including distance and average speed travelled by each type of vehicle on each type of road; DA-specific fleet data on petrol/diesel car mix, car engine size and fleet composition (including age).
The sum of emissions across all parts of the UK equates to the total for the UK inventory where that total is normalised using fuel sales data of petrol and DERV.
- Only take-off and landing emissions are reported.
- Includes emissions from coastal shipping, shipping between Scotland and the Overseas Territories, fishing vessels, marine engines, personal watercraft, inland goods-carrying vehicles, motorboats and sail boats with auxiliary engines.
- Includes military aviation and naval vessels, aircraft support vehicles and railways stationary combustion.
- Data have been revised due to changes in methodology - see paragraph 13.3.3 in notes and definitions.

Table 13.1b Atmospheric concentrations of selected pollutants ^(*,a) recorded at Air Quality Monitoring Stations

Air Quality monitoring station ¹	Type of monitoring station	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Nitrogen dioxide ²		<i>micrograms per cubic metre</i>										
Aberdeen Errol Place	Urban background	25	26	*	23	21	*	22	23	21	22	20
Aberdeen Union Street	Roadside	55	*	59	44	53	48	47	46	43	40	38
Bishopbriggs, Kirkintilloch Road	Roadside	33	33	33	*	30	31	29	27	29	27	27
Dumfries, A780	Roadside	37	35	40	32	33	30	30	30	31	30	30
Dundee Lochee Road	Roadside	53	54	55	*	53	52	46	48	45	44	43
Dundee Union Street	Kerbside	43	45	40	36	32	31	29	28	10	..	..
Eskdalemuir	Rural	5	4	3	3	3	3	2	2	2	2	2
Edinburgh Gorgie Road	Roadside	42	38	41	37	39	38	34	32	33	30	28
Edinburgh St Leonards	Urban background	31	24	31	25	24	22	*	*	20	20	18
Glasgow Centre, St Enoch's Square	Urban centre	35	42	44	34	*	..	..	..	..	..	..
Glasgow Kerbside, Hope Street	Kerbside	82	78	84	72	72	67	68	60	65	59	61
Glasgow Byres Road	Roadside	43	40	47	*	39	44	*	38	38	37	34
Glasgow City Chambers	Urban background	48	46	49	*	..	..	..	..	..	..	..
Inverness, Telford Street	Roadside	21	21	24	27	29	21	21	*	24	..	..
Perth High Street	Roadside	27	25	30	27	26	22	22	22	23	22	21
Ozone ³		<i>micrograms per cubic metre</i>										
Edinburgh St Leonards	Urban background	49	52	33	40	49	49	*	45	45	46	51
Eskdalemuir	Rural	57	56	55	53	51	60	58	57	54	57	58
Strath Vaich	Rural	73	67	61	64	67	70	69	70	68	68	66
		<i>Number of daily maximums (measured as an 8-hour running mean) exceeding 100ug/m3</i>										
Edinburgh St Leonards	Urban background	14	3	0	0	4	2	*	3	3	2	13
Eskdalemuir	Rural	16	20	2	10	7	14	7	9	8	3	16
Strath Vaich	Rural	65	4	4	14	12	23	17	10	10	6	12
Particulates (PM₁₀) ⁴		<i>micrograms per cubic metre</i>										
Aberdeen Errol Place	Urban background	16	15	13	14	12	13	15	12	12	11	14
Aberdeen Union Street	Roadside	22	18	18	22	21	20	18	*	13	13	15
Bishopbriggs, Kirkintilloch Road	Roadside	17	19	19	17	15	*	*	*	15	16	17
Dundee Broughty Ferry	Roadside	15	15	16	16	14	16	15	13	12	11	12
Dundee Union Street	Kerbside	17	17	17	19	16	15	16	17	..	..	..
Edinburgh Queen Street	Roadside	18	17	18	16	16	17	17	15	*	..	..
Edinburgh St Leonards	Urban background	15	*	14	15	*	14	*	10	11	10	11
Glasgow Byres Road	Roadside	10	19	23	*	13	*	*	10	12	13	14
Glasgow Waulkmillglen Reservoir	Rural	12	11	12	12	11	12	*	11	*	11	9
Glasgow Kerbside, Hope Street	Kerbside	27	26	29	*	*	23	..	..	..	..	..
Glasgow Centre, St Enoch's Square	Urban centre	19	25	*	17	*	..	..	..	..	..	..
Inverness, Telford Street	Roadside	12	12	14	12	11	12	11	9	9	..	..
Perth High Street	Roadside	16	16	19	19	15	16	14	13	13	13	..
Particulates (PM_{2.5}) ⁵		<i>micrograms per cubic metre</i>										
Aberdeen Errol Place	Urban background	..	..	7	8	9	9	10	8	5	6	7
Aberdeen Union Street	Roadside	..	..	..	..	..	..	*	11	7	7	8
Auchencorth Moss	Rural	3	3	..	4	4	..	7	3	3	5	5
Edinburgh St Leonards	Urban background	..	8	9	12	..	8	..	6	6	7	6
Glasgow Kerbside, Hope Street	Kerbside	..	..	23	22	20	16	..	..	..	..	..
Glasgow Centre, St Enoch's Square	Urban centre	..	12	12	10	..	..	..	..	..	..	..
Glasgow High Street	Roadside	..	..	..	..	..	..	8	8	7	7	7
Glasgow Townhead	Urban background	..	..	..	..	..	7	7	7	7	8	7
Grangemouth	Urban industrial	..	9	11	11	11	..	8	9	6	6	7

Source: Scottish Government - Not National Statistics

1. The sites chosen are a mixture of urban and rural site types with long time series
2. Annual mean concentration of atmospheric nitrogen dioxide.
3. Annual mean ground level ozone concentration.
4. Annual mean atmospheric PM₁₀ concentration.
5. Annual mean atmospheric PM_{2.5} concentration.

(*) Since 2003, results where data capture is less than 75% are not shown.

(..) Site not in operation for given year

(a) those to which transport is understood to contribute significantly - see text.

Table 13.1c Number of active Air Quality Management Areas by pollutant and local authority, as at 15 October 2019

Local authority	Pollutant(s)				All pollutants
	Nitrogen dioxide (NO ₂) only	Particulate Matter (PM ₁₀) only	Both NO ₂ and PM ₁₀	Sulphur dioxide	
Aberdeen City Council	-	-	3	-	3
City of Edinburgh Council	5	1	-	-	6
Dundee City Council	-	-	1	-	1
East Dunbartonshire Council	-	-	2	-	2
East Lothian Council	1	-	-	-	1
Falkirk Council	1	1	1	1	4
Fife Council	-	-	2	-	2
Glasgow City Council	2	-	1	-	3
Highland Council	1	-	-	-	1
North Lanarkshire Council	-	4	-	-	4
Perth & Kinross Council	-	-	2	-	2
Renfrewshire Council	2	-	1	-	3
South Lanarkshire Council	1	2	-	-	3
West Lothian Council	-	1	2	-	3
Scotland	13	9	15	1	38

Source: Scottish Air Quality website - Not National Statistics

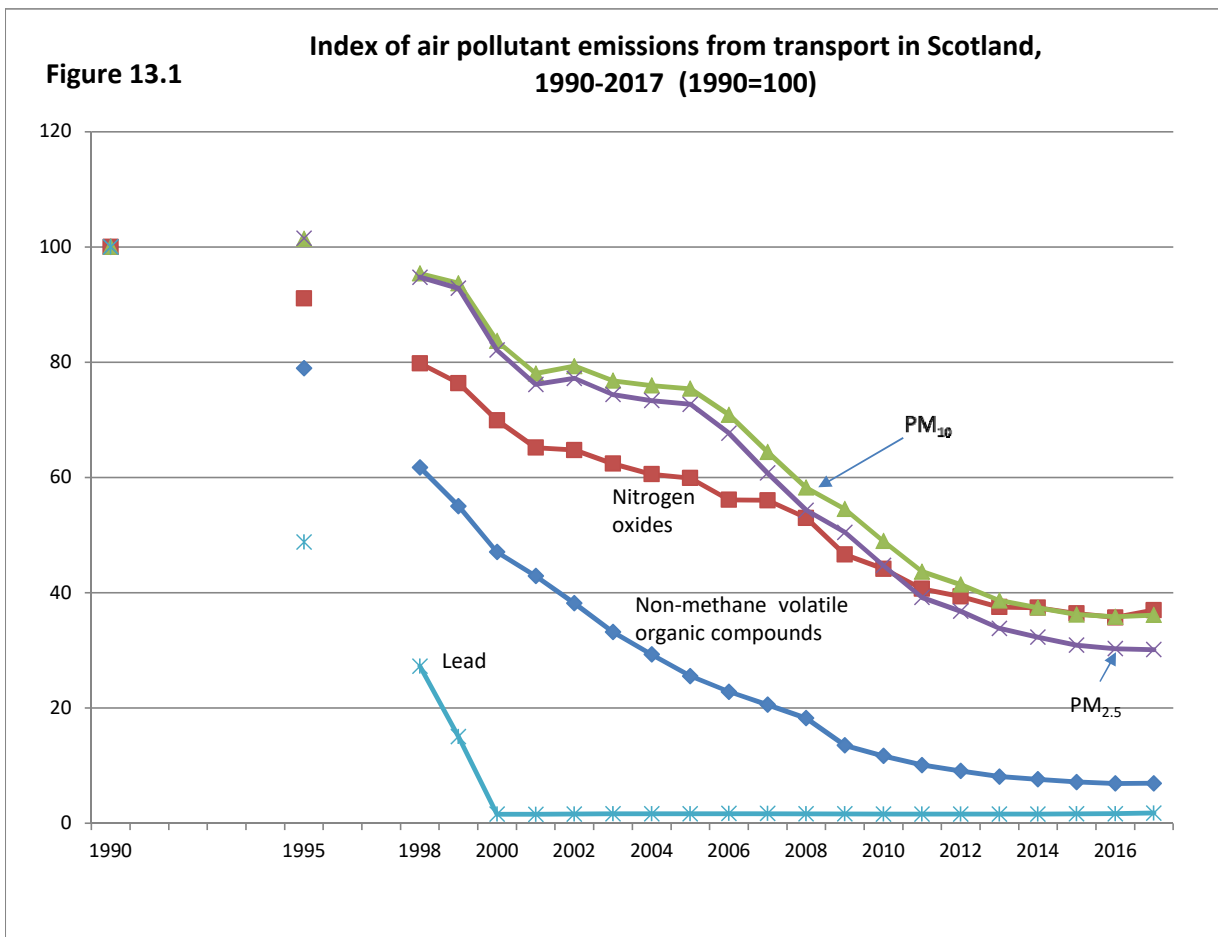


Table 13.2 Emissions of greenhouse gases by type of transport allocated to Scotland (MtCO₂e)

Year	1990	1995	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Buses & coaches	0.60	0.60	0.54	0.50	0.50	0.52	0.48	0.47	0.48	0.48	0.47	0.46	0.48
Passenger cars	5.79	5.84	6.30	6.13	5.96	5.76	5.68	5.71	5.62	5.63	5.65	5.76	5.89
Heavy Goods Vehicles	1.79	1.71	1.88	1.77	1.65	1.69	1.65	1.68	1.69	1.69	1.74	1.82	1.88
Light Goods Vehicles	0.96	1.07	1.47	1.41	1.39	1.43	1.44	1.46	1.48	1.55	1.63	1.76	1.87
Mopeds & motorcycles	0.04	0.03	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04
Other road ²	0.02	0.02	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05
Road Transportation Total¹	9.18	9.26	10.30	9.92	9.60	9.50	9.34	9.40	9.35	9.43	9.58	9.87	10.21
Railways	0.12	0.13	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
International Aviation and Shipping ^{3,4}	1.31	1.48	1.75	1.78	1.63	1.43	1.55	1.46	1.54	1.64	1.70	1.82	1.87
Domestic Aviation ⁴	0.86	0.74	1.05	0.96	0.86	0.79	0.78	0.75	0.75	0.72	0.71	0.67	0.69
Domestic Shipping and Maritime ⁴	3.36	4.16	2.96	2.77	2.65	2.50	2.13	1.92	1.78	1.84	1.96	2.03	1.95
Total transport	14.83	15.78	16.22	15.61	14.91	14.40	13.97	13.71	13.60	13.82	14.13	14.57	14.89
Non-transport net emissions	61.34	61.22	46.15	44.75	41.35	44.44	38.25	39.10	37.30	33.43	32.05	27.32	25.63
Net emissions all sources⁵	76.17	77.00	62.37	60.35	56.26	58.83	52.22	52.81	50.90	47.25	46.19	41.90	40.52
Total net emissions attributed to transport (%)⁵	19.47	20.49	26.00	25.86	26.51	24.47	26.75	25.95	26.72	29.24	30.60	34.78	36.75

Source: National Atmospheric Emissions Inventory: Greenhouse Gas Inventories for England, Scotland, Wales & Northern Ireland 1990-2017, some headings are own aggregation. **Not National Statistics**

http://uk-air.defra.gov.uk/reports/cat09/1906110855_DA_GHGI_1990-2017_Issue1.1.xlsb

1. The method used to estimate carbon dioxide (CO₂) emissions from road transport is based on vehicle kilometre travelled data constrained so that the sum of emissions across all parts of the UK equates to the total for the UK inventory. That total is derived from fuel sales data of petrol and DERV within the UK as specified in the reporting guidelines of the Intergovernmental Panel on Climate Change. Further detail can be found in Section 3.3 of the report and in Annex 2

2. Other road includes urea used as part of an additive for certain categories of diesel engine, LPG use and road vehicle engines.

3. A split between International aviation and international shipping can be found in the Carbon Account for Transport

<https://www.transport.gov.scot/media/45659/scot09199659921.pdf>

4. Includes various additional emissions associated with both shipping and aviation such as support vehicles at airports or marine engines on ships

5. Net emissions take account of removals of carbon dioxide due to carbon sinks.

Table 13.3 Emissions of greenhouse gases by Transport allocated to Scotland^{1,2} (KtCO₂e)

Year	1990	1995	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<i>Non-IAS Emissions</i>													
Carbon dioxide (CO ₂)	13.261	14.006	14.310	13.684	13.150	12.835	12.291	12.122	11.936	12.050	12.295	12.613	12.875
Methane (CH ₄)	0.100	0.075	0.025	0.022	0.017	0.015	0.013	0.012	0.011	0.010	0.009	0.009	0.009
Nitrous Oxide (N ₂ O)	0.164	0.214	0.139	0.121	0.115	0.113	0.110	0.110	0.113	0.117	0.122	0.129	0.134
Total transport greenhouse gases (Excluding International Aviation and Shipping)	13.526	14.295	14.474	13.827	13.281	12.963	12.414	12.244	12.060	12.178	12.427	12.751	13.019
<i>IAS Emissions</i>													
Carbon dioxide (CO ₂)	1.290	1.462	1.727	1.760	1.614	1.417	1.538	1.447	1.523	1.621	1.687	1.803	1.854
Methane (CH ₄)	0.001	0.001	0.001	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000
Nitrous Oxide (N ₂ O)	0.016	0.020	0.018	0.019	0.018	0.015	0.017	0.015	0.016	0.017	0.017	0.019	0.019
Total greenhouse gases from International Aviation and Shipping	1.307	1.483	1.747	1.780	1.632	1.433	1.555	1.463	1.539	1.639	1.705	1.822	1.874
All transport greenhouse gases	14.833	15.777	16.220	15.607	14.913	14.396	13.969	13.707	13.599	13.816	14.131	14.573	14.892

Source: National Atmospheric Emissions Inventory: Greenhouse Gas Inventories for England, Scotland, Wales & Northern Ireland 1990-2017, some headings are own aggregation. **Not National Statistics**

http://uk-air.defra.gov.uk/reports/cat09/1906110855_DA_GHGI_1990-2017_Issue1.1.xlsb

1. The footnotes to Table 5.12 also apply to this table, including revision of the figures; though note that emissions of methane and nitrous oxide from road transport are estimated using vehicle kilometre data.

In both of the calculation methods, and the total emissions of these GHGs from the two methods are identical. There are no emissions of other greenhouse gases by transport in the inventory.

2. The figures for greenhouse gas emissions are expressed in terms of their Global Warming Potential in tonnes of carbon dioxide equivalent. To convert from tonnes of carbon dioxide equivalent to tonnes of other gases multiply by the following factors: GWP methane - 25, GWP nitrous oxide - 298.

Table 13.4 Comparison of transport greenhouse gas emissions from Scotland and UK as a whole (MtCO₂e)

	Scottish Baseline (1990)		UK Baseline (1990)		Scottish Emissions (2016)		UK Emissions (2016)		Scottish Emissions (2017)		UK Emissions (2017)		Scottish Emissions as % of UK Emissions (2017)	Change in Scottish Emissions (2016-2017)	Change in UK Emissions (2016-2017)	Change in Scottish Emissions (1990-2017)	Change in UK Emissions (1990-2017)
	1990	1990	2016	2016	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017	2017
Buses & coaches	0.60	5.25	0.46	3.52	0.48	3.35	14.34	5%	-5%	-24%	-57%						
Passenger cars	5.79	72.29	5.76	69.80	5.89	69.64	8.45	2%	0%	2%	-4%						
Heavy Goods Vehicles	1.79	20.46	1.82	20.53	1.88	20.75	9.07	4%	1%	5%	1%						
Light Goods Vehicles	0.96	11.64	1.76	19.27	1.87	19.45	9.62	7%	1%	49%	40%						
Mopeds & motorcycles	0.04	0.77	0.03	0.53	0.04	0.53	6.66	6%	0%	-9%	-46%						
Road Transportation Total¹	9.17	110.41	9.82	113.65	10.16	113.72	8.93	3%	0%	10%	3%						
<i>Emissions by Road Type</i>																	
Urban	3.40	14.52	3.00	12.48	3.68	12.18	30.20	23%	-2%	8%	-19%						
Rural	4.63	14.77	4.92	17.66	4.52	17.98	25.16	-8%	2%	-2%	18%						
Motorway	1.12	8.82	1.89	13.66	1.94	13.89	13.98	3%	2%	42%	36%						
Railways	0.12	1.47	0.17	2.02	0.17	2.00	8.64	-1%	-1%	29%	26%						
International Aviation and Shipping ²	1.31	23.67	1.82	42.33	1.87	42.80	4.38	3%	1%	30%	45%						
Domestic Aviation ³	0.86	5.66	0.67	3.18	0.69	3.25	21.22	3%	2%	-25%	-74%						
Domestic Shipping and Maritime ⁴	3.36	9.93	2.03	6.48	1.95	6.38	30.54	-4%	-2%	-72%	-56%						
Total transport (excl International Aviation and Shipping)	13.51	127.47	12.70	125.33	12.97	125.35	10.34	2%	0%	-4%	-2%						
Total transport (incl International Aviation and Shipping)	14.82	151.13	14.52	167.65	14.84	168.15	8.83	2%	0%	0%	10%						

Source: National Atmospheric Emissions Inventory: Greenhouse Gas Inventories for England, Scotland, Wales & Northern Ireland 1990-2017, some headings are own aggregation. **Not National Statistics**

http://uk-air.defra.gov.uk/reports/cat09/1906110855_DA_GHGI_1990-2017_Issue1.1.xlsb

1. Excludes "other road" category

2. Includes aircraft engine emissions

3. Includes military aircraft and aircraft support vehicles

4. Includes lubricant for marine engines

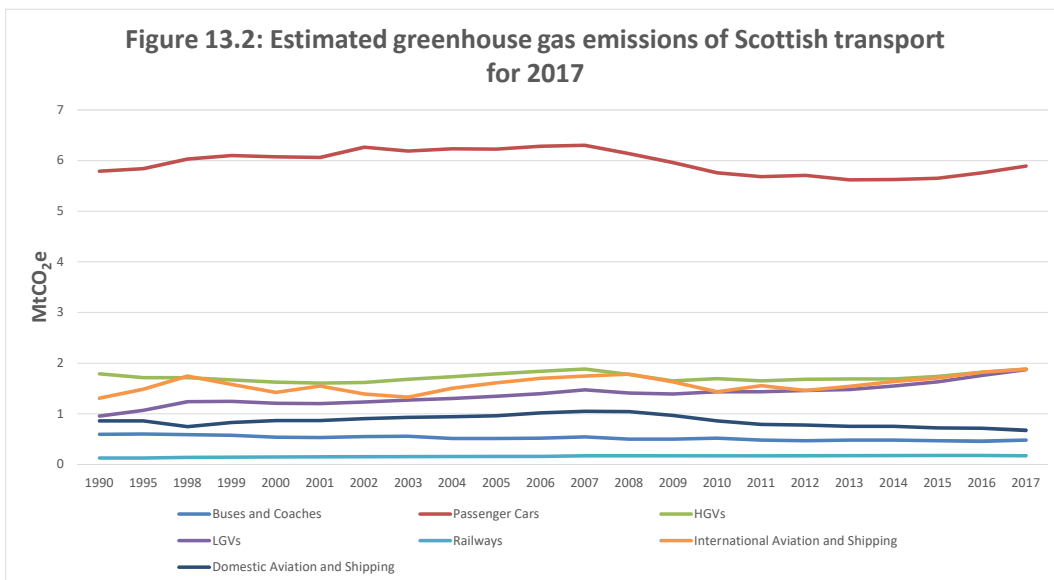
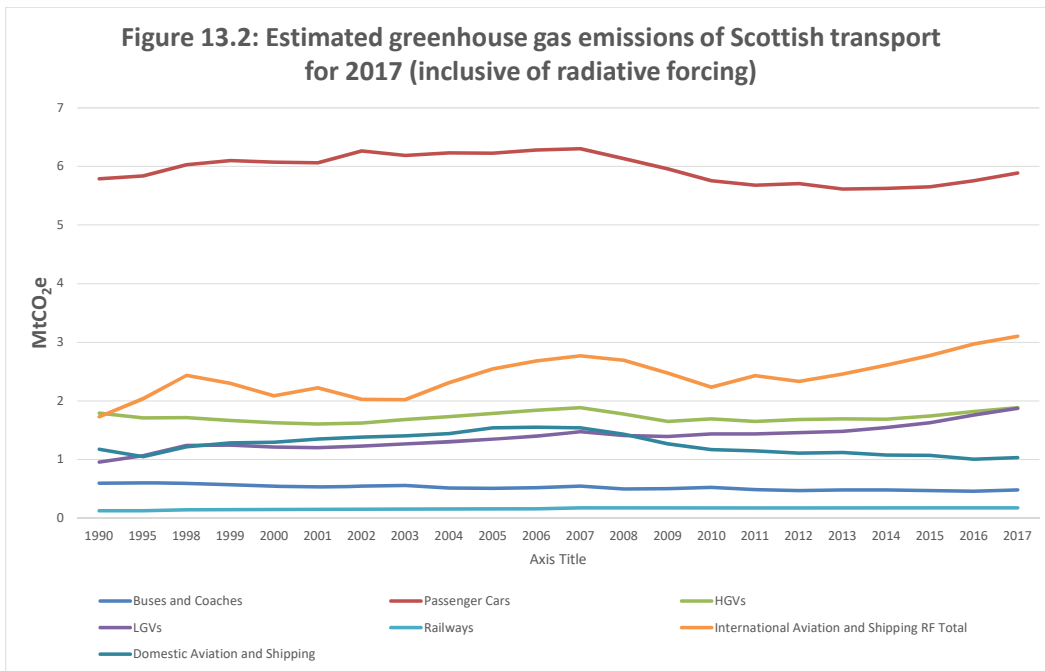


Table 13.5 UK Carbon Dioxide emissions: grams per passenger-kilometre, 2019¹

Mode of Transport	gCO ₂ per passenger kilometre
Petrol cars ²	181
Diesel cars ²	173
Hybrid ²	115
Petrol motorbike	116
Bus	105
Coach	28
National rail	41
Light rail and tram	35
Ferry	113
Domestic flights ^{3,4,5}	255
Short haul international ^{3,4,5}	158
Long haul international ^{3,4,5}	196

1. Source

http://uk-air.defra.gov.uk/reports/cat09/1906110855_DA_GHGI_1990-2017_Issue1.1.xlsb - Not National Statistics

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/806027/Conversion-Factors-2019-Full-set-for-advanced-users.xls

All figures are estimated using data for GB/UK as a whole so do not specifically relate to Scotland.

2. All Car figures assume an average car occupancy rate of 1.50 passengers based on the latest *Transport and Travel in Scotland*

3. The long haul estimate is based on a flight length from the *Guidelines* of 6482 km, short haul 1108km and domestic 463km.

4. All the factors include the distance uplift of 8% to compensate for planes not flying using the most direct route i.e. flying around international airspace, stacking etc.

5. Aviation emissions calculations inclusive of radiative forcing, thus taking account of additional environmental impacts of aviation, including emissions of nitrous oxides and water vapour emitted at high altitudes.

Table 13.6a: Cars registered for the first time by CO2 emission band, Scotland

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	<i>thousands</i>										
Up to 100 g/km	0.3	1.3	2.3	4.6	13.0	25.6	36.2	39.1	36.4	32.3	22.9
101 - 110 g/km	4.8	8.1	9.2	15.3	17.3	23.5	34.8	46.9	52.6	43.6	32.6
111 - 120 g/km	12.1	24.7	29.7	28.1	31.6	43.1	48.2	41.2	48.3	47.4	44.6
121 - 130 g/km	11.0	15.4	27.6	28.5	39.4	39.7	36.5	33.3	32.1	29.8	29.3
131 - 140 g/km	36.7	41.5	33.9	31.4	30.5	26.3	23.8	23.7	20.1	21.1	20.0
141 - 150 g/km	24.3	24.7	20.5	20.3	18.9	17.0	13.8	12.7	12.5	11.3	13.3
151 - 165 g/km	33.0	32.7	25.3	18.1	14.1	14.1	15.3	13.2	10.1	9.2	12.3
166 - 175 g/km	16.7	10.7	6.2	6.1	5.7	6.4	4.4	4.1	3.5	3.2	4.3
176 - 185 g/km	9.5	9.4	7.5	5.4	3.5	2.5	2.6	3.0	2.2	2.2	3.2
186 - 200 g/km	11.3	7.4	7.0	4.6	3.9	2.8	2.9	1.3	1.0	1.5	1.9
201 - 225 g/km	6.1	5.1	3.7	1.8	1.5	1.5	1.8	1.6	1.5	0.8	1.3
226 - 255 g/km	2.4	2.3	2.6	2.3	1.8	1.4	1.0	0.6	0.4	0.3	0.4
Over 255 g/km	3.4	2.2	1.2	0.6	0.5	0.5	0.5	0.4	0.6	0.5	0.6
Not known	1.0	0.8	0.6	0.5	0.7	0.7	0.6	0.7	0.8	0.7	0.8
Total	172.7	186.2	177.2	167.8	182.5	205.2	222.4	221.8	222.1	204.0	187.5
Avg CO₂	156.3	148.6	143.4	138.2	133.2	128.4	124.4	121.4	120.0	120.2	123.6
	<i>Column Percentages</i>										
Up to 100 g/km	0.2	0.7	1.3	2.7	7.1	12.5	16.3	17.6	16.4	15.8	12.2
101 - 110 g/km	2.8	4.3	5.2	9.1	9.5	11.4	15.7	21.2	23.7	21.4	17.4
111 - 120 g/km	7.0	13.3	16.8	16.8	17.3	21.0	21.7	18.6	21.7	23.2	23.8
121 - 130 g/km	6.4	8.3	15.6	17.0	21.6	19.4	16.4	15.0	14.5	14.6	15.6
131 - 140 g/km	21.3	22.3	19.1	18.7	16.7	12.8	10.7	10.7	9.1	10.4	10.6
141 - 150 g/km	14.1	13.3	11.6	12.1	10.4	8.3	6.2	5.7	5.6	5.6	7.1
151 - 165 g/km	19.1	17.5	14.3	10.8	7.8	6.9	6.9	5.9	4.6	4.5	6.5
166 - 175 g/km	9.7	5.8	3.5	3.6	3.1	3.1	2.0	1.8	1.6	1.5	2.3
176 - 185 g/km	5.5	5.1	4.2	3.2	1.9	1.2	1.2	1.3	1.0	1.1	1.7
186 - 200 g/km	6.6	4.0	4.0	2.8	2.1	1.4	1.3	0.6	0.4	0.7	1.0
201 - 225 g/km	3.5	2.7	2.1	1.1	0.8	0.7	0.8	0.7	0.7	0.4	0.7
226 - 255 g/km	1.4	1.2	1.5	1.4	1.0	0.7	0.4	0.3	0.2	0.2	0.2
Over 255 g/km	2.0	1.2	0.7	0.3	0.2	0.3	0.2	0.2	0.3	0.3	0.3
Not known	0.6	0.4	0.4	0.3	0.4	0.4	0.3	0.3	0.4	0.3	0.4
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: DVLA/DVADfT - GB figures published as DfT table VEH0256

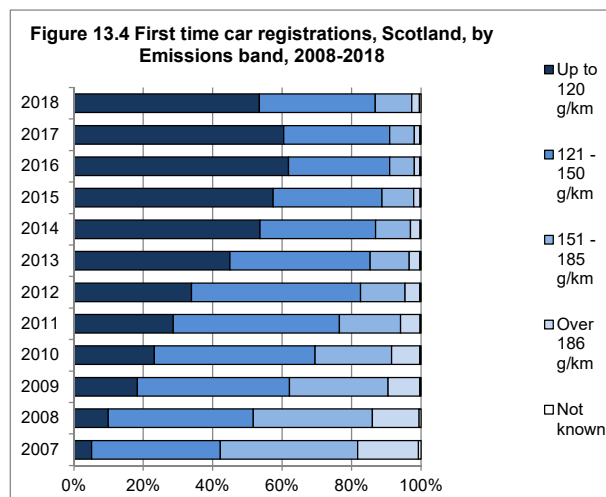
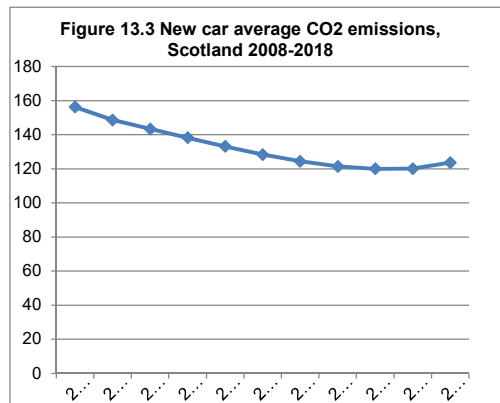


Table 13.6b: Licensed cars by CO2 emission band, Scotland

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
	<i>thousands</i>										
Up to 100 g/km	0.4	1.8	4.1	8.8	22.0	49.2	89.5	133.2	176.5	213.1	236.5
101 - 110 g/km	15.3	23.2	32.5	47.9	67.0	94.1	130.8	176.7	229.2	276.2	309.9
111 - 120 g/km	45.0	68.6	98.9	127.2	158.2	198.5	243.3	279.5	317.8	355.2	391.0
121 - 130 g/km	59.9	74.4	100.1	130.5	170.2	210.9	243.2	267.3	287.8	305.1	324.8
131 - 140 g/km	218.2	254.8	281.4	303.0	321.0	332.6	337.8	335.6	330.6	324.7	319.3
141 - 150 g/km	249.5	265.9	278.2	288.6	293.0	290.9	282.0	265.6	250.9	235.5	223.2
151 - 165 g/km	384.4	407.2	415.2	413.7	401.8	382.5	362.5	336.3	310.6	284.5	262.7
166 - 175 g/km	173.0	180.2	178.7	176.6	172.2	164.0	153.0	139.7	126.5	114.2	103.8
176 - 185 g/km	124.1	130.0	130.8	129.2	124.6	116.3	107.7	97.8	88.0	79.0	72.0
186 - 200 g/km	125.5	130.5	130.2	128.6	124.1	116.4	108.3	96.9	86.2	76.7	68.1
201 - 225 g/km	106.5	109.6	108.0	104.7	100.1	93.9	87.6	79.7	72.5	65.0	58.2
226 - 255 g/km	59.7	60.9	60.6	60.3	58.6	55.8	52.2	47.2	42.4	37.8	33.6
Over 255 g/km	48.2	50.2	49.8	48.9	46.7	44.2	41.5	37.9	34.8	31.8	29.2
Not known	623.4	491.5	386.1	296.3	225.5	169.9	130.1	100.9	79.2	63.6	53.5
Total	2,233.2	2,248.5	2,254.5	2,264.4	2,285.1	2,319.2	2,369.3	2,394.2	2,433.1	2,462.4	2,486.0
Avg CO₂	166.7	164.9	162.6	160.2	157.4	153.9	150.1	146.2	142.4	139.1	136.5
	<i>Column Percentages</i>										
Up to 100 g/km	0.0	0.1	0.2	0.4	1.0	2.1	3.8	5.6	7.3	8.7	9.5
101 - 110 g/km	0.7	1.0	1.4	2.1	2.9	4.1	5.5	7.4	9.4	11.2	12.5
111 - 120 g/km	2.0	3.1	4.4	5.6	6.9	8.6	10.3	11.7	13.1	14.4	15.7
121 - 130 g/km	2.7	3.3	4.4	5.8	7.4	9.1	10.3	11.2	11.8	12.4	13.1
131 - 140 g/km	9.8	11.3	12.5	13.4	14.0	14.3	14.3	14.0	13.6	13.2	12.8
141 - 150 g/km	11.2	11.8	12.3	12.7	12.8	12.5	11.9	11.1	10.3	9.6	9.0
151 - 165 g/km	17.2	18.1	18.4	18.3	17.6	16.5	15.3	14.0	12.8	11.6	10.6
166 - 175 g/km	7.7	8.0	7.9	7.8	7.5	7.1	6.5	5.8	5.2	4.6	4.2
176 - 185 g/km	5.6	5.8	5.8	5.7	5.5	5.0	4.5	4.1	3.6	3.2	2.9
186 - 200 g/km	5.6	5.8	5.8	5.7	5.4	5.0	4.6	4.0	3.5	3.1	2.7
201 - 225 g/km	4.8	4.9	4.8	4.6	4.4	4.0	3.7	3.3	3.0	2.6	2.3
226 - 255 g/km	2.7	2.7	2.7	2.7	2.6	2.4	2.2	2.0	1.7	1.5	1.4
Over 255 g/km	2.2	2.2	2.2	2.2	2.0	1.9	1.8	1.6	1.4	1.3	1.2
Not known	27.9	21.9	17.1	13.1	9.9	7.3	5.5	4.2	3.3	2.6	2.2
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: DVLA/DVADfT - GB figures published as DfT table VEH0206

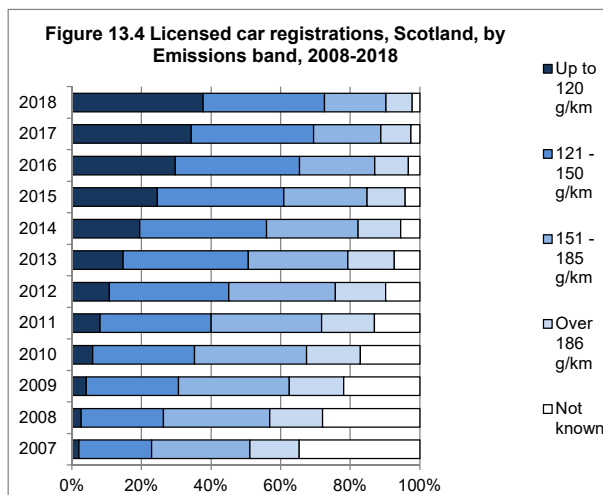
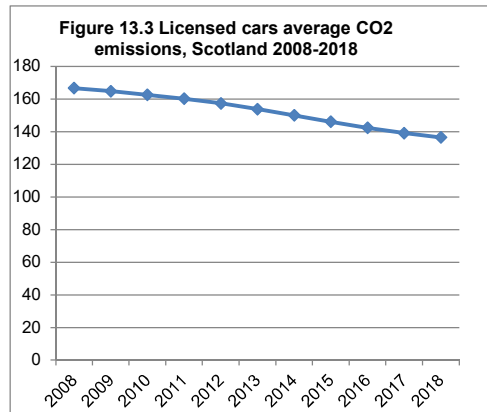


Table 13.7: Ultra-low emission vehicles (ULEV)¹ registered for the first time, Scotland, quarterly: January 2015 to September 2019

PIG Eligible Cars ^{2,3}													Vehicles					
Year	Month	Category 1	Category 2/3	Non PIG Eligible Plug-in Cars ³	Non Plug-in Cars	Quadricycles	All Cars	PIG Eligible Motorcycles and tricycles ^{2,4}	Non PIG Eligible Motorcycles and tricycles ^{2,4}	All Motorcycles and tricycles ⁴	PIG Eligible Light Goods Vehicles ²	Non PIG Eligible Plug-in Light Goods Vehicles ²	Non Plug-in Light Goods Vehicles	All Light Goods Vehicles	Heavy Goods Vehicles	Buses and coaches	Other vehicles	Total
2011	Jan-Mar	14	-	28	0	0	42	0	4	4	0	14	0	14	0	0	4	64
2011	Apr-Jun	37	-	0	0	0	37	0	1	1	0	4	0	4	0	0	3	45
2011	Jul-Sep	14	-	2	0	0	16	0	3	3	0	1	0	1	0	0	20	20
2011	Oct-Dec	5	-	0	0	0	5	0	3	3	1	10	0	11	0	0	4	23
2012	Jan-Mar	25	-	1	0	0	26	0	1	1	0	9	0	9	0	0	2	38
2012	Apr-Jun	23	12	0	0	13	48	0	3	3	5	0	0	5	0	0	8	64
2012	Jul-Sep	16	18	0	0	1	35	0	0	0	25	5	0	30	0	0	1	66
2012	Oct-Dec	33	7	3	0	1	44	0	0	0	11	0	0	11	0	0	1	56
2013	Jan-Mar	12	14	0	0	0	26	0	0	0	4	0	0	4	0	0	0	30
2013	Apr-Jun	50	16	1	0	0	67	0	1	1	1	1	0	2	0	0	2	72
2013	Jul-Sep	44	9	3	0	1	57	0	0	0	3	0	0	3	0	1	2	63
2013	Oct-Dec	38	8	0	0	0	46	0	0	0	1	2	0	3	0	0	1	50
2014	Jan-Mar	111	19	0	0	0	130	0	0	0	9	0	0	9	0	0	2	141
2014	Apr-Jun	114	48	4	0	1	167	3	0	3	11	1	0	12	0	2	4	188
2014	Jul-Sep	140	122	5	0	2	269	0	0	0	10	2	0	12	0	1	4	286
2014	Oct-Dec	168	90	14	0	0	272	0	1	1	12	2	0	14	0	4	0	291
2015	Jan-Mar	172	173	20	0	8	373	0	2	2	28	1	0	29	0	5	1	410
2015	Apr-Jun	131	168	18	0	2	319	0	1	1	15	2	0	17	0	1	0	338
2015	Jul-Sep	123	145	11	1	1	281	0	1	1	14	2	0	16	0	0	3	301
2015	Oct-Dec	188	151	2	0	3	344	0	1	1	6	2	0	8	0	0	1	354
2016	Jan-Mar	198	237	13	4	1	453	0	3	3	26	0	0	26	1	0	2	485
2016	Apr-Jun	131	132	8	21	0	292	0	3	3	20	0	0	20	0	0	2	317
2016	Jul-Sep	162	202	8	14	1	387	0	2	2	12	0	0	12	1	0	0	402
2016	Oct-Dec	145	128	12	19	0	304	0	3	3	10	2	0	12	0	0	4	323
2017	Jan-Mar	347	279	14	26	0	666	0	1	1	23	1	0	24	0	0	1	692
2017	Apr-Jun	248	228	14	29	1	520	0	5	5	22	1	0	23	0	0	1	549
2017	Jul-Sep	254	415	26	26	0	721	2	8	10	14	1	0	15	0	6	3	755
2017	Oct-Dec	150	338	12	30	0	530	1	7	8	11	1	0	12	0	0	0	550
2018	Jan-Mar	276	502	22	24	0	824	0	1	1	17	2	0	19	0	0	1	845
2018	Apr-Jun	283	544	62	5	1	895	3	5	8	21	0	0	21	0	0	5	929
2018	Jul-Sep	294	447	51	2	0	794	3	8	11	22	0	0	22	0	0	13	840
2018	Oct-Dec	276	62	538	0	1	877	2	7	9	21	0	0	21	0	1	15	923
2019	Jan-Mar	526	-	569	0	0	1,095	3	7	10	40	3	0	43	0	0	27	1,175
2019	Apr-Jun	431	-	458	0	0	889	4	12	16	48	1	0	49	2	0	16	974
2019	Jul-Sep	868	-	539	0	0	1,407	11	4	15	41	4	0	45	0	3	19	1,489
2011	Whole year	70	-	30	0	0	100	0	11	11	1	29	0	30	0	0	11	152
2012	Whole year	97	37	4	0	15	153	0	4	4	41	14	0	55	0	0	12	224
2013	Whole year	144	47	4	0	1	196	0	1	1	9	3	0	12	0	1	5	215
2014	Whole year	533	279	23	0	3	838	3	1	4	42	5	0	47	0	7	10	906
2015	Whole year	614	637	51	1	14	1,317	0	5	5	63	7	0	70	0	6	5	1,403
2016	Whole year	636	699	41	58	2	1,436	0	11	11	68	2	0	70	2	0	8	1,527
2017	Whole year	999	1,260	66	111	1	2,437	3	21	24	70	4	0	74	0	6	5	2,546
2018	Whole year	1,129	1,555	673	31	2	3,390	8	21	29	81	2	0	83	0	1	34	3,537

Source: DVLA/DfT

1. Ultra low emission vehicles (ULEVs) are vehicles that emit less than 75g of carbon dioxide (CO2) from the tailpipe for every kilometre travelled. In practice, the term typically refers to battery electric, plug-in hybrid electric and fuel cell electric vehicles.

2. Includes all vehicles of models that are eligible for the plug-in grants at the date of latest table update. Therefore earlier data in the series may be changed retrospectively as models are added to the eligible list. In addition, if a vehicle becomes ineligible for the plug-in grant, it will remain in this list for historical comparison. For more details, see: <https://www.gov.uk/plug-in-car-van-grants-eligibility>

3. Changes to the Plug-in Car Grant came into effect on 21 October 2018. Vehicles registered for the first time on or after this date are categorised using the new eligibility criteria. There may be some cars that were purchased with a plug-in car grant but were registered for the first time after this date. For more information about the changes, see: <https://www.gov.uk/government/publications/plug-in-car-grant-changes-to-grant-level-november-2018/upcoming-changes-to-the-plug-in-car-grant>

4. Some powerful electric bikes have to be registered as mopeds and will be included here. For more details, see: <https://www.gov.uk/electric-bike-rules>

Table 13.8: Ultra-low emission vehicles (ULEV)¹ licensed at the end of year, Scotland, quarterly: 2015 q1 to 2019 q3

PIG Eligible Cars ^{2,3}													Vehicles				
Quarter	Category 1	Category 2/3	Non PIG Eligible Plug-in Cars ³	Non Plug-in Cars	Quadricycles	All Cars	PIG Eligible Motorcycles and tricycles ^{2,4}	Non PIG Eligible Motorcycles and tricycles ^{2,4}	All Motorcycles and tricycles ⁴	PIG Eligible Light Goods Vehicles ²	Non PIG Eligible Plug-in Light Goods Vehicles ²	Non Plug-in Light Goods Vehicles	All Light Goods Vehicles	Heavy Goods Vehicles	Buses and coaches	Other vehicles	Total
2011 Q1	14	-	80	-	-	74	-	73	73	-	93	-	93	9	2	179	430
2011 Q2	51	-	61	-	-	112	-	72	72	-	96	-	96	9	1	174	464
2011 Q3	64	-	63	-	-	127	-	68	68	-	98	-	98	10	2	174	479
2011 Q4	70	-	62	-	-	132	-	63	63	1	110	-	111	9	2	180	497
2012 Q1	97	-	61	-	1	159	-	67	67	1	117	-	118	9	2	180	535
2012 Q2	119	12	63	-	14	208	-	67	67	6	119	-	125	10	3	188	601
2012 Q3	136	31	63	-	15	245	-	60	60	31	122	-	153	10	3	184	655
2012 Q4	168	39	64	-	16	287	-	52	52	42	121	-	163	10	4	183	699
2013 Q1	187	55	63	-	16	321	-	47	47	48	121	-	169	9	4	181	731
2013 Q2	246	68	62	-	16	392	-	48	48	48	125	-	173	8	4	177	802
2013 Q3	290	74	66	-	15	445	-	47	47	55	120	-	175	9	5	177	858
2013 Q4	330	85	66	-	16	497	-	45	45	58	119	-	177	9	5	177	910
2014 Q1	437	104	65	-	16	622	-	43	43	70	119	-	189	8	5	181	1,048
2014 Q2	555	152	65	-	15	787	3	39	42	80	120	-	200	9	6	177	1,221
2014 Q3	702	273	73	-	17	1,065	3	32	35	89	120	-	209	10	13	181	1,513
2014 Q4	862	363	83	-	18	1,326	3	29	32	96	126	-	222	10	14	181	1,785
2015 Q1	1,024	541	101	-	27	1,693	3	31	34	113	126	-	239	10	22	183	2,181
2015 Q2	1,149	716	111	-	29	2,005	3	30	33	133	116	-	249	10	23	174	2,494
2015 Q3	1,262	891	100	1	29	2,283	4	27	31	150	109	-	259	9	22	174	2,778
2015 Q4	1,451	1,060	102	2	32	2,647	4	29	33	152	118	-	270	9	22	180	3,161
2016 Q1	1,633	1,334	107	6	36	3,116	4	30	34	176	115	-	291	10	22	174	3,647
2016 Q2	1,768	1,512	116	27	36	3,459	4	34	38	202	114	-	316	10	22	171	4,016
2016 Q3	1,961	1,761	121	41	36	3,920	4	38	42	219	113	-	332	11	22	165	4,492
2016 Q4	2,125	1,931	127	59	37	4,279	4	32	36	229	114	-	343	10	23	166	4,857
2017 Q1	2,419	2,220	144	82	33	4,898	4	31	35	256	117	-	373	9	24	165	5,504
2017 Q2	2,670	2,479	161	115	33	5,458	4	36	40	272	114	-	386	10	24	165	6,083
2017 Q3	3,002	2,899	171	138	28	6,238	3	44	47	289	113	-	402	10	29	170	6,896
2017 Q4	3,245	3,237	177	169	25	6,853	4	44	48	292	113	-	405	10	29	163	7,508
2018 Q1	3,562	3,752	194	191	23	7,722	5	43	48	318	115	-	433	10	28	164	8,405
2018 Q2	3,810	4,335	255	193	26	8,619	10	48	58	336	107	-	443	9	28	159	9,316
2018 Q3	4,241	4,869	287	190	27	9,614	12	55	67	362	106	-	468	9	28	175	10,361
2018 Q4	4,520	5,008	813	190	30	10,561	13	59	72	383	104	-	487	10	29	191	11,350
2019 Q1	5,024	5,003	1,365	185	30	11,607	13	63	76	416	103	-	519	10	26	215	12,453
2019 Q2	5,414	5,003	1,835	178	29	12,459	18	70	88	468	95	-	563	10	26	241	13,387
2019 Q3	6,237	5,000	2,375	176	30	13,818	28	67	95	496	100	-	596	10	30	254	14,803

1. Ultra low emission vehicles (ULEVs) are vehicles that emit less than 75g of carbon dioxide (CO2) from the tailpipe for every kilometre travelled. In practice, the term typically refers to battery electric, plug-in hybrid electric and fuel cell electric vehicles.

2. Includes all vehicles of models that are eligible for the plug-in grants at the date of latest table update. Therefore earlier data in the series may be changed retrospectively as models are added to the eligible list. In addition, if a vehicle becomes ineligible for the plug-in grant, it will remain in this list for historical comparison. For more details, see: <https://www.gov.uk/plug-in-car-van-grants-eligibility>

3. Changes to the Plug-in Car Grant came into effect on 21 October 2018.

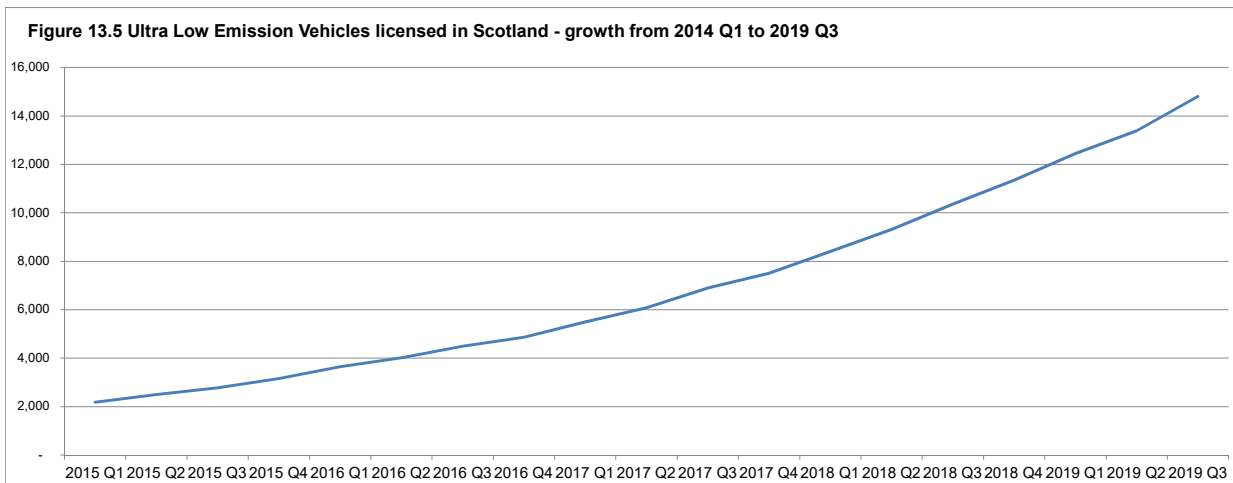


Table 13.9: Number of new registrations by body type and propulsion type in Scotland during 2018 (Thousands)

Body type	Propulsion type												Grand Total <i>thousand</i>
	Diesel	Electric diesel	Electric ity	Fuel cells	Gas	Gas bi-fuel	Gas-diesel	Hybrid electric	New fuel technology	Petrol	Petrol/gas	Steam	
Agricultural	2.3	-	c	-	-	-	-	-	-	0.7	-	c	3.0
Buses & coaches	0.7	-	c	-	-	-	-	-	-	c	-	-	0.7
Cars	55.0	0.0	1.1	-	-	c	c	8.2	-	123.2	-	-	187.5
Goods - heavy	4.1	-	-	-	-	-	-	-	-	c	-	-	4.1
Goods - light	27.7	-	0.1	-	-	c	-	0.0	-	0.3	-	-	28.1
Motorcycles, mopeds & scooters	c	-	0.0	-	-	-	-	-	-	6.4	-	c	6.4
Others ¹	2.1	-	0.8	-	0.0	-	-	-	-	0.1	-	-	3.0
Special Purpose	c	-	-	-	-	-	-	-	-	-	-	-	c
Taxis	0.2	-	-	-	-	-	-	0.0	-	-	-	-	0.3
Tricycles	c	-	-	-	-	-	-	-	-	0.0	-	-	0.0
Grand Total	92.1	0.0	2.0	-	0.0	c	c	8.3	-	130.7	-	c	233.1

Source: DVLA/DfT

c. Value has been suppressed to avoid disclosing personal information.

- denotes fewer than 50.

1. Includes Invalid Vehicle (Mobility scooters), Lift Trucks, Tel Material Handlers, Hydraulic Excavator, Rear Digger, Ambulance, Fire Engine, Street Cleansing, Roller and Loading Shovel. Pure Electric 'others' are Invalid vehicles or Lift Trucks.

Table 13.10: Number of licensed vehicles by body type and propulsion type in Scotland as at 31 December 2018 (Thousands)

Body type	Propulsion type												Grand total <i>thousand</i>
	Diesel	Electric diesel	Electric ity	Fuel cells	Gas	Gas bi-fuel	Gas-diesel	Hybrid electric	New fuel technology	Petrol	Petrol/gas	Steam	
Agricultural	49.5	-	0.0	-	0.0	-	-	-	-	4.7	0.0	0.0	54.3
Buses & coaches	14.3	-	0.0	-	-	c	c	-	-	0.2	0.0	-	14.5
Cars	1,034.6	0.5	4.5	-	0.0	0.7	0.0	26.1	0.0	1,419.1	0.5	c	2,486.0
Goods - heavy	36.7	-	0.0	-	0.0	c	c	-	-	0.1	c	c	36.8
Goods - light	290.4	-	0.5	-	0.0	0.2	-	0.0	c	6.3	0.1	0.0	297.6
Motorcycles, mopeds & scooters	0.0	-	0.1	-	c	-	-	-	-	70.4	c	-	70.5
Not recorded	0.3	-	0.0	-	-	-	-	-	-	0.1	-	c	0.3
Others ¹	20.1	-	4.8	-	0.1	0.0	0.0	c	c	1.0	0.0	0.0	26.1
Special purpose	0.3	-	0.0	-	-	-	-	-	-	0.0	c	0.0	0.3
Taxis	3.4	-	-	-	-	c	-	0.0	-	0.0	-	-	3.5
Tricycles	0.0	-	c	-	-	-	-	-	-	0.9	c	-	0.9
Grand Total	1,449.6	0.5	9.9	-	0.1	0.9	0.0	26.1	0.0	1,502.9	0.6	0.1	2,990.7

Source: DVLA/DfT

c. Value has been suppressed to avoid disclosing personal information.

- denotes fewer than 50.

1. Includes Invalid Vehicle (Mobility scooters), Lift Trucks, Tel Material Handlers, Hydraulic Excavator, Rear Digger, Ambulance, Fire Engine, Street Cleansing, Roller and Loading Shovel. Pure Electric 'others' are Invalid vehicles or Lift Trucks.

Table 13.11 – ChargePlace Scotland: Total electric vehicle charge points by local authority boundary

	2017	2018	2019
Aberdeen City	43	46	50
Aberdeenshire	19	32	48
Angus	16	25	42
Argyll and Bute	24	29	40
City of Edinburgh	44	56	69
Clackmannanshire	12	13	15
Comhairle nan Eilean Siar	19	19	22
Dumfries and Galloway	17	20	26
Dundee City	34	62	73
East Ayrshire	10	14	34
East Dunbartonshire	6	6	15
East Lothian	12	34	53
East Renfrewshire	8	9	13
Falkirk	12	14	20
Fife	43	50	67
Glasgow City	73	80	119
Highland	40	54	78
Inverclyde	13	13	17
Midlothian	21	22	25
Moray	11	13	21
North Ayrshire	16	24	31
North Lanarkshire	23	30	37
Orkney Islands	14	14	23
Perth and Kinross	41	47	53
Renfrewshire	20	23	31
Scottish Borders	23	24	32
Shetland Islands	12	13	13
South Ayrshire	9	13	24
South Lanarkshire	14	15	50
Stirling	22	22	42
West Dunbartonshire	12	15	18
West Lothian	19	25	25
Total	702	876	1,226

Table 13.12 – ChargePlace Scotland: Electric vehicle charge points by local authority boundary and type, 2019

	Rapid	Fast	Slow
Aberdeen City	11	26	13
Aberdeenshire	14	21	13
Angus	10	24	8
Argyll and Bute	13	17	10
City of Edinburgh	8	26	35
Clackmannanshire	0	5	10
Comhairle nan Eilean Sia	8	10	4
Dumfries and Galloway	5	5	16
Dundee City	26	23	24
East Ayrshire	10	9	15
East Dunbartonshire	1	12	2
East Lothian	11	24	18
East Renfrewshire	4	6	3
Falkirk	3	10	7
Fife	7	16	44
Glasgow City	11	47	61
Highland	40	20	18
Inverclyde	2	10	5
Midlothian	3	7	15
Moray	6	10	5
North Ayrshire	8	16	7
North Lanarkshire	8	9	20
Orkney Islands	6	9	8
Perth and Kinross	15	27	11
Renfrewshire	6	12	13
Scottish Borders	13	8	11
Shetland Islands	2	3	8
South Ayrshire	4	10	10
South Lanarkshire	5	6	39
Stirling	11	18	13
West Dunbartonshire	2	8	8
West Lothian	2	12	11
Total	275	466	485

Table 13.13 Estimated charging events and kWh drawn by local authority boundary and charger type, 2019

	Rapid		Fast		Slow	
	Charging Events	kWh Drawn	Charging Events	kWh Drawn	Charging Events	kWh Drawn
Aberdeen City	17,375	217,009	11,879	133,564	5,122	45,961
Aberdeenshire	17,298	197,570	4,103	51,094	1,875	15,935
Angus	10,130	125,429	7,401	88,755	2,192	25,664
Argyll and Bute	7,635	94,535	3,817	40,604	672	7,381
City of Edinburgh	24,393	325,495	16,205	204,443	11,558	128,609
Clackmannanshire	0	0	1,436	21,727	3,504	25,405
Comhairle nan Eilean Siar	2,029	25,324	621	8,911	720	11,031
Dumfries and Galloway	2,921	44,078	388	4,190	1,532	18,117
Dundee City	97,767	1,065,144	11,805	139,396	9,702	97,324
East Ayrshire	6,233	75,447	3,118	30,921	2,241	18,912
East Dunbartonshire	1,942	24,567	4,331	49,971	1,067	11,762
East Lothian	9,066	113,724	8,278	98,382	3,479	39,095
East Renfrewshire	1,196	18,851	4,454	41,392	345	3,780
Falkirk	5,131	65,774	4,706	52,407	1,563	14,094
Fife	17,004	231,378	3,820	43,102	16,891	181,723
Glasgow City	17,584	290,027	21,780	257,989	13,763	142,851
Highland	22,435	320,189	1,572	18,453	1,079	12,429
Inverclyde	943	10,754	3,898	35,597	573	6,962
Midlothian	8,983	122,041	1,116	10,915	4,971	55,461
Moray	1,189	21,683	1,583	20,378	1,344	10,229
North Ayrshire	5,882	73,628	2,632	26,612	715	5,273
North Lanarkshire	5,092	72,659	2,503	31,115	4,122	39,895
Orkney Islands	4,628	50,336	2,504	21,202	1,459	12,125
Perth and Kinross	25,455	315,740	10,033	116,519	2,379	27,720
Renfrewshire	12,437	140,374	4,541	46,935	3,524	25,301
Scottish Borders	11,588	139,960	1,316	15,945	1,094	12,280
Shetland Islands	1,146	10,624	60	500	1,744	16,293
South Ayrshire	3,953	50,482	5,428	65,252	1,222	13,079
South Lanarkshire	11,306	151,693	3,361	36,764	1,668	17,420
Stirling	9,228	129,716	8,351	99,984	1,886	21,502
West Dunbartonshire	4,198	56,623	2,141	24,969	1,104	11,665
West Lothian	5,624	72,403	8,953	102,074	1,664	14,754
Total	371,791	4,653,259	168,134	1,940,061	106,774	1,090,031

Notes:

- ChargePlace Scotland (CPS) (www.chargeplacescotland.org) is the national network of publicly available Electric Vehicle charge points, funded by the Scottish Government
- Data is sourced from the ChargePlace Scotland back-office system. Usage data is based on valid charging sessions recorded by the back-office. A valid charging event is considered to be over 1 kWh drawn and whereby the session was longer than 120 seconds.
- The kWh Drawn is the total energy provided during a charging event. If energy is transferred at a constant rate over a period of time, the total energy transferred in kilowatt hours is equal to the power in kilowatts multiplied by the time in hours.
 - A Rapid charge point on the ChargePlace Scotland Network has a power rating of up to 50kW DC or 43kW AC.
 - A Fast charge point on the ChargePlace Scotland Network has a power rating of up to 22kW AC
 - A Slow charge point on the ChargePlace Scotland Network has a power rating of up to 7kW AC

Notes and Definitions

Summary Chapter

S. Notes, Sources and Further Information – historical

S.1 Occasionally, figures given for Great Britain (or the UK) are on a different basis from the figures for Scotland. Such differences in the basis of the figures for Scotland and GB/UK should not prevent their use in a broad comparison of the trends.

S.2 *Motor vehicles, the road network, traffic and road casualties*

S.2.1 **Vehicles Licensed:** (Chapter 1). The figures for 1962 to 1974 represented the numbers of licences current at any time during the third quarter. They were derived from an annual census which used the records held by local licensing authorities. The method underlying the census then changed as vehicle records were gradually transferred from local taxation offices to the Driver and Vehicle Licensing Centre. Consequently, the figures for 1974 to 1978 are not comparable. No census results were available for 1977. Censuses based entirely on the record of licensed vehicles at the Driver and Vehicle Licensing Agency (DVLA) began on 31 December 1978 and subsequent counts were taken on the last day of each year up to and including 31 December 1992.

Thereafter, the source of this information changed to the Vehicle Information Database (VID) held by what is now the Department for Transport (DfT). The results conform to the same definitions as earlier vehicle censuses, but, for technical reasons, are considered slightly more reliable than earlier estimates. Some vehicles have complicated licensing histories that may include incidents such as cheques failing to clear, changes of taxation status, late payments, and one or more valid or invalid refund claims. The VID undertakes a more detailed examination of licensing history than earlier vehicle census analyses and is therefore able to provide better estimates of licensed stock. The net effect of the change to the VID as the main source of statistics on currently licensed stock was to produce a small reduction in the estimated levels of licensed stock. The difference between the two sources can be broadly estimated from statistics for 1992 which are available from both the old and new sources.

The VID figures for all vehicles licensed at the end of 1992 are 2.4 per cent lower for Scotland, and 3.1 per cent lower for England and Wales, than the DVLA figures for the same date. For example, the VID figure for Scotland for 31 December 1992 is 1,840,000 compared with the DVLA figure of 1,884,000. To estimate the growth in the number of licensed vehicles over the longer term, these changes should be used to adjust the apparent vehicle growths calculated from figures which are on different bases pre- and post-1992.

S.2.2 **Car Traffic on major roads:** The notes for Chapter 5 describe the methods used to estimate the volume of car traffic on major roads in Scotland for 1983 and subsequent years. As those methods cannot be used to estimate car traffic in Scotland for earlier years, the then Scottish Executive had to make ad-hoc estimates for the years from 1975 to 1982. These ad-hoc estimates were calculated using the rate of change in the volume of traffic for Great Britain as a whole, adjusted to take

account of changes in the number of vehicles licensed in Scotland relative to the number for Great Britain as a whole. The estimates for 1975 to 1982 therefore indicate the likely level of car traffic on major roads in Scotland in those years, and may well be considerably less accurate than the estimates for later years.

S.3 Public transport (bus, rail, air and ferry)

S.3.1 Bus Passengers: The notes for Chapter 2 describe the method used to collect these statistics with effect from the 1985-86 financial year. A different method was used for 1984 and earlier years: the figures for 1975 to 1984 relate to calendar years and, prior to 1986, the term stage services was used (rather than local services). The figures for 1960 to 1974 are on a different basis: they were produced by adding together the total numbers of passenger journeys reported by the Scottish Bus Group (for calendar years) and the four city corporations (for financial years). They therefore include any non-local services run by these operators, and exclude any local (or stage) services that were run by other operators. In addition, it appears that the figures reported by the Glasgow city corporation may have included passenger journeys on trolley buses and on the Glasgow Underground. The method used to collect the data has been changed and data prior to 2004 are not comparable.

S.3.2 Rail Passengers: See the notes for Chapter 7. The statistics relate to financial years with effect from 1985-86. The figure for 1984 is derived from a total for the fifteen-month period 1 January 1984 to 31 March 1985, by scaling this down to an estimate for a twelve-month period. The figures for 1983 and earlier years are for calendar years. The figures for 1990-91 and earlier years were provided by British Rail after the end of each year; those for 1991-92 to 1999-2000 were provided by the Association of Train Operating Companies in Spring 2001. See also paragraph 7.5 for details of changes to Scotrail methodology.

S.4 Freight

S.4.1 Road Freight: The notes for chapter 3 describe these statistics and freight more generally as well as making comparisons between modes. There is a small discontinuity for road freight between the figures for 1986 and 1987: the former excludes freight whose destination is Northern Ireland, and the latter includes such freight. As Table 3.1 shows, the amount involved is a very small percentage of the total.

S.4.2 Rail Freight: See the notes for Chapter 7. The statistics relate to financial years with effect from 1985-86. The figure for 1984 is derived from a total for the fifteen-month period from 1 January 1984 to 31 March 1985, by scaling this down to an estimate for a twelve-month period. The figures for 1983 and earlier years are for calendar years.

S.4.3 Coastal shipping: The figures for Scotland cover freight on coastwise voyages for which either the origin or the destination (or both) is in Scotland - i.e. all coastwise freight lifted in Scotland plus the coastwise freight lifted elsewhere in the UK which is discharged in Scotland. This definition of coastal shipping excludes foreign, one port and inland waterway freight shipping. For historical reasons, the

NOTES & DEFINITIONS - SUMMARY

definition used for the coastal shipping series differs from the definitions which are used for the water transport statistics in the notes for chapter 9. There is a small discontinuity between 1981 and 1982, due to a change in definitions. The figures were provided by the Department for Transport – Margaret Talbot (Tel: 0207 944 4131).

S.4.4 **Coastwise Shipping:** See the notes for Chapter 9. These figures are lower than the figures for coastal shipping, because the latter includes freight lifted elsewhere in the UK which is discharged in Scotland.

S.4.5 **Pipelines:** Figures from 1993 onwards estimate the total carried by on-shore pipelines which are at least 50 km in length and which carry crude oil or products. Figures for Scotland relate to pipelines originating in Scotland. Estimates are produced by the Department of Energy and Climate Change, based on pipeline operators information. The estimates were supplied by DTI and Charanjit Ransi (Tel: 0207 215 2718) can provide further information about them.

Chapter 1 – Road Transport Vehicles

1. Notes and Definitions

1.1 **Motor Vehicles:** There are three types of classification of motor vehicles:

- **Taxation Group:** based on the level of tax placed on a motor vehicle according to its vehicle type (e.g. Private & light goods, Public transport, Goods etc);
- **Body Type:** based on the look of a vehicle (e.g. cars).

1.2 **Private and Light Goods Vehicles:** the bulk of this group consists of private cars (whether owned by individuals or companies) and vans and light goods vehicles (goods vehicles which do not exceed 3,500 kgs gross weight). The group also contains a number of other types of vehicle including private buses and coaches.

1.3 **Motorcycles:** no distinction is made between motorcycles, scooters and mopeds for taxation purposes, and therefore motorcycles includes all two wheeled vehicles.

1.4 **Public Transport:** all vehicles classified for taxation in class 34 - Bus (introduced 1 July 1995). These are vehicles used for public conveyance, with more than 8 seats. Prior to 1 July 1995 public transport vehicles were taxed in class 35 Hackney, used similarly for public transportation but with no lower limit on seating capacity. Buses and coaches not licensed for public conveyance, and operated and used privately, are excluded and are classified for excise licensing with private and light goods. Taxis and private hire cars are now included in the private and light goods group.

1.5 **Goods Vehicles:** the totals for this group (goods vehicles which exceed 3,500 kgs gross weight) for the earlier years include the now-discontinued formerly separate Farmers Goods, General Goods and some vehicles which before 1 July 1995 were taxed in a specialised taxation class but which now fall into the Goods Vehicle class groups, which were shown separately in some of the previous editions of *Scottish Transport Statistics*. Goods vehicles that are used un-laden, privately or for driver training purposes are licensed in the Private HGV taxation class.

1.6 **Crown and Exempt Vehicles:** the 'exempt' vehicles include a number of distinct sub-groups and classes, of which the most important are: 'Emergency vehicles', 'Disabled driver and disabled passenger carrying vehicles', 'All vehicles, except buses and goods vehicles used commercially if they were constructed before 1 January 1973', and 'Personal export and direct export vehicles', and vehicles formerly in the 'Special Concessions' class i.e. agricultural tractors, combine harvesters, and mowing machines, electric vehicles, gritting vehicles and snow ploughs, and steam powered vehicles.

1.7 **Special Vehicles:** this group consists of vehicles over 3,500 kgs which do not pay Vehicle Excise Duty as heavy goods vehicles nor qualify for taxation in the special concessionary group. Vehicles in this group include road rollers, work trucks, digging machines and mobile cranes.

1.8 **Average ages of vehicles:** with effect from the estimates for 2008, the Department for Transport [DfT] improved its method of estimating the age of the vehicle fleet. The estimated ages are slightly higher than previously, although the pattern from year to year is unchanged.

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1.9 **Goods vehicles licensed by operator size:** To operate a goods vehicle (over 3,500 kgs gross weight) in GB (England, Scotland and Wales) in connection with a trade or business or for hire or reward you need to hold a goods vehicle operator's licence. The aims of operator licensing are basically road safety and fair competition. All operators undertake to keep their vehicles in a fit and serviceable condition and to ensure their drivers meet the statutory requirements regarding drivers' hours and records legislation. Operator licensing is the responsibility of the Traffic Commissioners. Each is responsible for a Traffic Area, of which there are 8 in GB. Where an operator has an operating centre(s) (i.e. the place(s) where vehicles are normally kept) in a Traffic Area, a licence must be held in that Traffic Area. Some of the larger operators will have more than one licence. Some operators have licences with no vehicles specified, relying solely on short term hire instead.

1.10 **Driving tests:** The theory test was introduced on 1 July 1996, therefore full year figures are available from 1997. A person who has passed the theory test must sit the practical test within two years. If the person fails the practical during this period then he/she can re-sit the practical without having to take the theory test again.

1.11 **Households with cars available for private use:** In the Scottish Household Survey (SHS), the term car is used *only* for cars: vans are **not** included in the analysis. The interviewer asks whether any cars are normally available for private use by members of the household. Cars normally kept or owned by someone outside the household are excluded, but company cars available for private use are included.

1.12 **Household types:** the following categories are used in the analysis of the SHS results:

- A **single pensioner** household consists of just one adult of pensionable age (60+ for women, and 65+ for men) and no children
- A **single parent** household contains an adult of any age and one or more children.
- A **single adult** household consists of an adult of non-pensionable age and no children.
- An **older smaller** household contains *either* (a) an adult of non-pensionable age and an adult of pensionable age and *no* children *or* (b) two adults of pensionable age and *no* children.
- A **large adult** household has three or more adults and *no* children.
- A **small adult** household contains two adults of non-pensionable age and *no* children.
- A **large family** household consists of *either* (a) two adults and three or more children *or* (b) three or more adults and one or more children.
- **Small family** households consist of two adults and one or two children.

1.13 **Annual net household income** and **SHS urban / rural classification:** notes on these classifications appear in the notes to Chapter 12.

1.14 **Motor Vehicle Offences:** those offences classified as motor vehicle offences in the Scottish Government Justice Department's classification of crimes and offences. Certain crimes related to motor vehicles, namely causing death by dangerous driving, causing death by careless driving while under the influence of drink or drugs and reckless driving at common law, are excluded primarily because information on these crimes is not collected on the same basis as other motor vehicle offences. In 2012-13,

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the police recorded 9 crimes of causing death by dangerous driving, and 1 crime of reckless driving at common law. 2 crimes of causing death by careless driving when under the influence of drink or drugs were recorded in 2012-13. In 2011-12, there were 8 convictions where the main offence was causing death by dangerous driving, all of which resulted in a custodial sentence. There were 21 convictions where the main offence was causing death by careless driving, of which 10 resulted in a community sentence, 5 in a custodial sentence 5 resulted in fines and 1 resulted in probation. There were also 2 convictions for causing death by careless driving while under the influence of drink or drugs, which resulted in a custodial sentences. There were no convictions in 2011-12 with reckless driving at common law as the main offence. However, the statistics dealing with recorded crime and court proceedings are not directly comparable as a person may be proceeded against for more than one crime involving more than one victim and there is the possibility that the crime recorded by the police may be altered in the course of judicial proceedings. Also a crime may be recorded by the police in one year and court proceedings concluded in a subsequent year.

Sources

1.15 Numbers of vehicles

The source of this information is the Vehicle Information Database (VID) held by the Department for Transport (DfT). The results conform to the same definitions as earlier vehicle censuses, but, for technical reasons, are considered slightly more reliable than earlier estimates. Some vehicles have complicated licensing histories, that may include incidents such as cheques failing to clear, changes of taxation status, late payments, and one or more valid or invalid refund claims. The VID undertakes a more detailed examination of licensing history than earlier vehicle census analyses and is therefore able to provide better estimates of licensed stock. The figures include all vehicles which pay tax and certain vehicles which are exempt. The exempt vehicles are described in section 1.6. The figures exclude vehicles registered by the armed forces, or as personal or direct export and trade licences issued to manufacturers, repairers of and dealers in motor vehicles. In 2010 DfT revised stock figures from 2006 to 2009 - see https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/763837/vehicle-licensing-statistics-notes-definitions.pdf

1.16 Number of Vehicles: Taxation class changes in the period covered by the tables

1.16.1 In 1995 there were major reforms of the vehicle taxation system. The bulk of the changes came into operation on 1 July 1995, but some additional changes were introduced on 29 November 1995. The intention was to remove many of the complications in the existing taxation structure, using a strategy to link Vehicle Excise Duty (VED) rates for many directly to the rate for the private and light goods group (PLG), or the basic minimum rate for heavy goods vehicles (HGVs). One measure to help achieve this was the creation of three umbrella taxation groups:

- An emergency vehicles group - exempt from VED
- A special concessionary group, including agricultural machines, snow ploughs, gritting vehicles, electric vehicles and, later, steam powered vehicles, paying VED at one quarter of the annual PLG rate
- A special vehicles group, limited to vehicles over 3500 kgs, including mobile cranes, works trucks, digging machines, showmen's vehicles, etc, paying VED at a rate equivalent to the basic minimum rate for HGVs

NOTES & DEFINITIONS - ROAD TRANSPORT VEHICLES

From 1 April 2001, vehicles licensed in the special concessionary group were exempted from the payment of VED.

1.16.2 In addition, the goods vehicle taxation system was itself considerably simplified by the abolition of separate goods vehicle classes for farmers and showmen. All remaining goods vehicle taxation classes were also abolished and vehicles in those groups transferred to an appropriate tax class. At the same time, the basis for calculation of excise duty for goods vehicles was amended to revenue weight. Revenue weight means either confirmed maximum gross weight as determined by plating and testing regulations, or design weight for vehicles not subject to plating and testing (formerly known as Restricted HGVs).

1.16.3 The process also included further simplifications and tidying arrangements. These included cases in which vehicles not over 3,500 kgs gross weight were removed into the private and light goods taxation class rather than remaining in specialised taxation classes and groups, and the re-allocation of some tax classes into more appropriate groups. One key change of a similar type was to abolish the separate taxation of public transport vehicles with eight seats or fewer, and tax all such vehicles in the PLG class. From start of July 1995 bigger public transport vehicles were taxed in a new bus taxation class. The changes were completed by the introduction in the November 1995 budget of a new exempt class for vehicles over 25 years of age previously in the private and light goods or motorcycle groups. In 1998 the exemption for vehicles over 25 years of age was replaced with one applying to all vehicles, except buses and goods vehicles used commercially if they were constructed before 1 January 1973.

1.16.4 In general, the process of implementing these changes was gradual, and vehicles were allowed to remain in their current class until a new tax disk was required, whereupon they were transferred into other groups and classes as appropriate. Since tax disks may run for up to a year, some vehicles remained legitimately taxed in abolished groups at the end of 1995. That process was effectively complete by the end of 1996, but users of taxation and stock statistics for 1995 and later years should take special care to ensure they are aware of the changes and the methods by which vehicles were re-allocated to other groups.

1.17 **Heavy Goods Vehicles:** there is a large increase in the over 38 tonnes category, and a large decrease in the 32.1 to 38 tonnes category, between 1998 and 1999, and continuing in later years. This is due primarily to legislation which came into effect in 2001 allowing 6-axled lorries to run at up to 44 tonnes. This has led to many lorries 'up-plating' i.e. the lorries do not necessarily physically change, but are simply taxed differently so that they may carry greater loads.

1.18 A further reform to the tax class structure for vehicles weighing up to 3,500kg was announced in 1998. In 1999 a two banded system based on engine size was introduced for the PLG class. In March 2001 four new tax classes were introduced. The Petrol Car, Diesel Car and Alternative Fuel Car taxation classes were introduced for passenger vehicles weighing up to 3,500kg registered on or after 1 March 2001. The Light Goods Vehicles tax class was introduced for goods vehicles weighing up to 3,500kg registered on or after 1 March 2001.

1.19 Numbers of vehicles: Analysis by local government areas

1.19.1 Until 1995 the DVLA used the postcode of the registered keeper (of the vehicle) to allocate vehicles to local government regions. With the 1996 re-organisation of local

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authorities in Scotland, local government area analyses required major revisions. This was achieved by use of the most recently available postcode directory, which, when used in conjunction with the Vehicle Information Database, allowed vehicle stocks to be estimated for the new local authorities.

1.20 Numbers of new registrations of vehicles

1.20.1 The numbers of new registrations of vehicles of various taxation class types have been obtained by DfT from DVLA. In recent years, changes to taxation classes and local government reorganisation have affected the DVLA computer system used to produce these figures, and it can no longer provide the numbers of new registrations for each taxation class for Scotland. Scottish figures appearing here are estimated by DfT, using post town area data, and are subject to a small margin of error.

1.21 Taxis licensed

1.21.1 These figures are based on an annual survey conducted by the Scottish Government and represent the taxi fleet size/driver numbers at the time of replying to the survey.

1.22 Goods vehicles operators by licence type and number of vehicles specified on the licence

1.22.1 These figures were produced from information taken from the Traffic Commissioners administrative records.

1.23 Most popular car sold

1.23.1 These figures are supplied by Society of Motor Manufacturers and Traders (SMMT). They are based on postcode location derived from form V55 which is completed by the car dealer. The figures do not include sales from non SMMT dealers, such as overseas dealers.

1.24 MOT tests

1.24.1 These figures are supplied by VOSA (Vehicle Operator Services Agency) and are based on test results data entered electronically at each privately operated Vehicle Testing Station in Scotland.

1.25 Driving test receipts

1.25.1 Figures for both driving licence theory and practical tests are obtained from the Driving Standards Agency (DSA).

1.26 Scottish Household Survey

1.26.1 Information about the Scottish Household Survey is given in the notes to chapter 12.

1.27 Numbers of Blue Badges

1.27.1 The Scottish Government requested details from Local Authorities on the number of badges awarded under the EU Blue Badge scheme. Blue badges are valid for up to 3 years from the date of issue. Totals (shown in Table 1.21) will include all valid badges on issue in the specified year.

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1.27.2 The Blue Badge Improvement Service (BBIS), a central database for all blue badges on issue, was introduced on 1 January 2012. Data accuracy for the total number of blue badges on issue has improved as all blue badges are recorded on BBIS.

1.28 Motor Vehicle Offences

1.28.1 The statistical return from which the figures on recorded motor vehicle offences in this publication are taken is a simple count of the numbers of crimes and offences, for each local authority, which the police have recorded and cleared. Returns of quarterly data are submitted by Police Scotland and are used to produce a national total. Data from other police forces, such as the British Transport Police, are not included. Each quarterly submission of data to the Scottish Government contains revisions (such as the re-designation of incidents found on investigation not to be criminal) back to quarter 1 of the same financial year. However, amendments which arise after the end of the year are not incorporated.

1.28.2 Most motor vehicle offences are discovered and recorded as a result of police activity rather than by being reported to the police by the public. Hence the numbers of such offences recorded are mainly determined by the level of enforcement or police deployment.

1.28.3 The figures included in the Motor vehicle offences group do not include stationary motor vehicle offences dealt with by the issue of a fixed penalty ticket. However, offences dealt with under the vehicle defect rectification scheme and offences for which the procurator fiscal offers a fixed penalty are included in the figures. In addition to this, moving traffic offences which are the subject of a police conditional offer of a fixed penalty are also included, e.g. speeding, traffic directions offences.

1.28.4 Certain motor vehicle offences are not always recorded in cases where police forces are unable to clear-up the offence (e.g. speeding offences where the driver is untraceable). Clear-up rates for motor vehicle offences in these circumstances are artificial. Thus, clear-up rates for the Motor vehicle offences group are not included.

1.28.5 The number of Vehicle Excise Licence Offences recorded decreased from 3,792 in 2017-18 to 176 in 2018-19. This was largely due to standardisation of practice across Police Scotland divisions in November 2017, whereby the Driver and Vehicle Licensing Agency (rather than the police) took primacy in dealing with these offences.

1.29 Further Information

1.29.1 Further information on motor vehicle licensing statistics can be found in the DfT publications *Transport Statistics Great Britain, & Vehicle Licensing Statistics*.

1.29.2 Further information on motor vehicle offences recorded by the Police is available in the Scottish Government's '*Criminal Proceedings in Scottish Courts*'.

1.29.3 Enquiries regarding the statistics should be directed as follows:

Motor vehicle licensing (Tables 1.1 to 1.3 and 1.5 to 1.9)

Paul Syron, Department for Transport, Tel: 020 7944 3077

Taxi and Private hire cars licensed by Local Authority area (Table 1.4)

Peter Reid, Transport Scotland Tel: 0131 244 4533

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Goods vehicle operators by licence type & number of vehicles specified on the licence (Table 1.10)

David Dumbleton, Vehicle and Operator Services Agency, Tel: 0113 254 3280

Cars sold in Scotland by make and mode (Table 1.11)

Paul Kingston, Society of Motor Manufacturers & Traders, Tel: 0207 235 7000

Road vehicle testing scheme (MOT) (Table 1.12)

Stephen Hacker, VOSA, Tel: 0117 954 3382

Driving licence tests and DVLA receipts (Tables 1.13 & 1.14)

Applications, tests concluded & passes: (theory) Linda Massey (Tel 0115 936 6254) or (practical - <https://www.gov.uk/government/collections/driving-tests-and-instructors-statistics#data-tables>) Malcolm Sims (Tel 0115 936 6465), DSA
Receipts from vehicle licences – Carl James, DVLA, Tel: 01792 783 201
Receipts from driving licences - Ms Lynne Harris, DVLA, Tel: 01792 788 088

SHS figures for Driving licence holders and Households with a car available for private use. (Tables 1.16, 1.17, 1.19 & 1.20)

Andrew Knight, Transport Statistics, Transport Scotland, Tel: 0131 244 7256

Blue Badge Statistics (Table 1.21)

Aga Lysak, Transport Scotland (Tel: 0131 244 0923)

Motor vehicle offences (Table 1.22)

Adele Walls, Scottish Government Justice Statistics Unit (Tel: 0131 244 2228).

1.34 Other data sources

Within Scottish Transport Statistics:

Summary – Includes comparisons with GB
Chapter 2 – Bus and coach travel,
Chapter 5 – Road Traffic (including congestion)
Chapter 11 – Personal and Cross modal travel
Chapter 13 – Environment and Emissions

Other Transport Scotland Publications:

Transport and Travel in Scotland – includes more detailed analysis of SHS data, in particular:

Table 20 – Frequency of driving

SHS Local Authority Results – provides breakdowns of SHS data by Local Authority, Regional Transport Partnership and Urban Rural Classification. In particular:

Table 4 – Car access by Local Authority

Table 5 – Frequency of driving by Local Authority

Department for Transport produce a number of related publications, including:

Traffic estimates
Vehicle registrations
Bus and Coach statistics

Eurostat collate figures for EU states including figures for vehicle registrations. More details can be found in the notes for Chapter 12.

Chapter 2 - Bus and Coach Travel

2. Notes and Definitions

2.1 **Local bus service:** one which is available to the general public, where passengers pay separate fares and travel a radial distance no greater than 15 miles (24 kms) from the point of boarding.

2.2 **Other services:** include contract, private hire, express journeys, excursions and tours which are not registered as local services.

2.3 **Passenger journeys (boardings):** the statistics are compiled on the basis that each boarding of a vehicle counts as one passenger journey. Therefore, each trip made by a passenger on one vehicle on one route counts as a separate journey. Return tickets therefore count as two passenger journeys. The numbers of passenger journeys using season tickets or travel passes are largely based on button presses by the driver or scaling factors applied to ticket machine data by the operator. Figures from 2004-05 include any adjustments applied by operators to allow for driver under-counting, but where this is not done no adjustment is made by DfT.

2.4 **Vehicle kilometres:** estimates are for 'live' (in service) mileage and exclude empty running of buses (e.g. between garage and terminus), driver instruction and vehicle testing.

2.5 **Local bus fare indices:** Information about the size of each fares change is supplied by a representative sample of around 100 operators. Indices are obtained by averaging the reported changes using weights based on receipts from passengers (excluding concessionary fare reimbursement from local authorities). In theory, therefore, the index measures the change in the average charge to the fare-paying passenger. The implementation of free concessionary fares is, though, included once, in the quarter within which it was introduced.

2.6 **Commercial services:** are those run without direct financial support from a local transport authority. They are still eligible for central Government subsidy in the form of the Bus Service Operators Grant (BSOG) (formerly known as the fuel duty rebate) and (where applicable) for concessionary fare reimbursement.

2.7 **Subsidised services:** are those considered socially necessary and run under contract to local transport authorities with some direct subsidy. They include a few services subsidised without competitive tendering, under Section 91 of the Transport Act 1985 ('de minimis' arrangements) in England and Wales or in accordance with the duty of best value in Scotland.

2.8 **Concessionary fare reimbursement:** A National Concessionary Travel schemes for groups such as elderly people and disabled people was rolled out in early 2006. Prior to that local authorities ran their own schemes. Bus operators are reimbursed for revenue lost as a result of their participation in the schemes, after taking into account a portion of the income from the extra travel generated, i.e. it is supposed to be profit-neutral. Journeys made under these schemes can be found in Table 11.29. These schemes should not be confused with the reductions offered to children, for example, by many operators on commercial grounds.

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2.9 **Staff employed: Platform staff** comprise drivers, conductors and any other on-vehicle staff; **maintenance staff** include all employees engaged on cleaning, repair, service or maintenance of vehicles, while **other staff** include administrative staff. There may be some duplication of functions, particularly amongst the smaller operators.

2.10 **Walking time to nearest bus stop:** the Scottish Household Survey (SHS) interviewer asks how long it would take him/her to walk to the nearest bus stop (or place where one could get a bus).

2.11 **Frequency of bus service:** the SHS interviewer asks about the frequency of service at the nearest bus stop (or place one could get on a bus). If the householder says that the frequency of service varies, the interviewer asks for the week-day off-peak frequency.

2.12 **SHS urban/rural classification:** notes on this are provided in the notes to Chapter 12.

Sources

2.13 *The DfT survey of Public Service Vehicle Operators*

2.13.1 The basis for most of the statistics in this chapter is the annual returns which a sample of Public Service Vehicle operators makes to the Department for Transport (DfT).

2.13.2 The sample includes all operators who are licensed with 21 or more licence discs (which normally, but not always, equate to the number of vehicles), plus a random sample of smaller operators. Until 2010-11, the sample included both local and other operators, but from 2011-12 only local operators have been surveyed. Local operators are identified from the list of operators who receive BSOG and other sources. Sampling is stratified and based upon the size of the operator's fleet (in terms of the number of licence discs), though some operators are selected with certainty where this is necessary to ensure sufficient coverage in each geographical area.

2.13.3 Proxy data are generated for all local operators, and imputation is used for data which are missing either because the operator was not sampled or did not respond. Imputation is based either on previous returns from the operator or using other methods such as using other data the operator has supplied.

2.13.4 The figures for Scotland are primarily based on returns for operators with an address in Scotland, even though some operators may do work in England and vice versa. However, important information relating to local operators (mainly passenger boardings, vehicle kilometres and passenger receipts) is obtained at local authority level and so these estimates will exclude data relating to England, even though other variables such as staff numbers are all allocated to just one of an operator's local authorities – the one with the highest number of passenger boardings. (NB: a large

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group, such as Stagecoach, is not treated as a single operator: there will be a separate statistical return for each of its subsidiary companies.)

2.13.5 In September 2006, DfT revised the passenger numbers for each year from 1985/86 onwards in order to adjust for driver under-recording of the numbers of passengers who did not pay cash (e.g. those using season tickets, concessionary fare passes, return halves of tickets etc). A further survey showed that the allowance was not affected by the introduction of free concessionary fares.

2.13.6 In October 2012, the DfT revised passenger numbers, vehicle kms and passenger revenue relating to 2004-05 onwards. Although previous figures are presented these are not strictly comparable with the later years. The methodology used by DfT means that figures back to 2004-05 are subject to minor revisions each year (for example as new data is used to improve imputation of previous year's figures) though the broad trends shown are rarely affected.

2.14 Scottish Government and Transport Scotland finance data

2.14.1 This data is taken from Local Authority Finance returns and Transport Scotland finance records relating to grant payments and the administration of the National Concessionary Travel scheme.

2.14.2 In Summer 2011, Transport Scotland reviewed the Government Support for bus figures published in Bus and Coach Statistics 2011. This led to a revision of the figures to exclude support for non bus transport. Figures have been revised back to 2006-07 when the National Concessionary Travel Scheme was introduced.

2.15 Transport Scotland National Concessionary Travel scheme data

2.15.1 Transport Scotland is responsible for reimbursing bus operators for carrying passengers under the National Concessionary Travel scheme. The application process for an NCT pass is managed by a third party contractor but summary numbers are provided to Transport Scotland which have been used to populate the card holder numbers used in this chapter.

2.16 Scottish Household Survey

2.16.1 The Scottish Household Survey is a large household level survey run in Scotland. Data is collected on a range of topics including transport and travel. The survey also includes a Travel Diary component. This data is used to analyse travel patterns and choices. More details can be found in the notes to Chapter 11 of this publication (personal and cross modal travel).

2.17 Further Information

2.17.1 DfT's *Annual Bus Statistics* include some more detailed analyses of GB bus statistics. <http://www.dft.gov.uk/statistics/series/buses/>

2.17.2 Enquiries regarding the statistics in Tables 2.1 to 2.8 should be made to Matthew Tranter, Department for Transport, Tel: 0207 944 3076
bus.statistics@dft.gsi.gov.uk

2.17.3 Enquiries relating to the Government Support table (2.9) and concessionary travel pass number (2.13 and 2.14) should be made to Andrew Knight of the Transport Scotland Statistics branch (tel: 0131 244 7256).

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2.17.4 Further information on the Scottish Household Survey figures can be found in Chapter 11. Enquires on the SHS- based Tables 2.10 and 2.12 should be made to Andrew Knight of the Transport Scotland Statistics branch (tel: 0131 244 7256).

2.18 Other data sources

Within Scottish Transport Statistics:

- Chapter 1 - Road vehicles,
- Chapter 5 – Road Traffic (including congestion)
- Chapter 6 - Road casualties
- Chapter 11 - Personal Travel chapter (including travel to work)

Other Transport Scotland Publications:

Transport and Travel in Scotland – includes more detailed analysis of SHS data, in particular:

- Table 4 – satisfaction with public transport
- Table 5 – concessionary pass possession
- Table 21 – Park and ride
- Table 28 – Frequency of bus and train use
- Tables 29 and 30 – Views on local buses and trains
- Tables 31 and 32 – Concessionary pass use

Scottish Household Survey Travel Diary – includes detailed tables using the Travel Diary dataset, in particular:

- Table 2 – journeys by mode of transport
- Table 2a – journey distance by mode of transport
- Table 2b – stages by mode of transport
- Table 4a – mode of transport by journey distance
- Table 5a – distance summary statistics by mode of transport

SHS Local Authority Results – provides breakdowns of SHS data by Local Authority, Regional Transport Partnership and Urban Rural Classification. In particular:

- Table 1 - Travel to work by mode of transport
- Table 2 - Travel to school by mode of transport
- Table 11 - Frequency of bus and train use
- Table 12 – Convenience of public transport
- Table 13 – Satisfaction with public transport
- Table 14a – Views on bus services
- Table 15 – Concessionary pass use
- Table 16 – journeys by mode of transport

Department for Transport produce a number of related publications, including:

- Traffic estimates
- Vehicle registrations
- Bus and Coach statistics

Non Official Statistics sources

- Office of the Traffic Commissioner – Traffic Commissioners' Annual report.
- Confederation of Passenger Transport – Cost Index

Chapter 3 - Road Freight

3. Notes and Definitions

3.1 **Origin and destination:** these refer to the origins and destinations of the trips that were recorded in the surveys. These are *not* necessarily the ultimate origins and destinations of the goods (a trip on a surveyed vehicle may represent only one stage in the journey of a consignment: goods may have been trans-shipped on a number of occasions). Individual origins and destinations are standardised by the Department for Transport to NUTS3 regions (an EU wide geography based on existing local administrative boundaries), with all published outputs based on these regions.

3.2 **Entering Scotland and leaving Scotland:** Trips with a destination in Scotland and an origin outwith Scotland are classed as 'entering Scotland', whilst trips with an origin in Scotland and a destination outwith Scotland are classed as 'leaving Scotland' - where a trip is defined as a vehicle moving from an origin to a destination to either load and/or unload goods.

3.3 **Remaining in Scotland:** goods for which both the origin and the destination of the trip are within Scotland.

3.4 **Length of haul:** tonne kilometres moved divided by tonnes lifted. This information relates to individual vehicle trips, and not to the total distance that the goods may have travelled.

3.5 **Goods lifted:** the total weight of goods carried, measured in tonnes.

3.6 **Goods moved:** the weight of the goods carried multiplied by the distance hauled, measured in tonne kilometres.

3.7 **Groupage:** when, for mixed consignments, no single commodity makes up 75% or more of the consignment weight.

3.8 **Road Freight Intensity Index (table 3.3):** this indicates how the volume of road freight (measured in tonne-kilometres) has been changing relative to the Scottish economy as a whole. The road freight intensity index is an index of the ratio of (i) the index of road freight tonne-kilometres moved by UK HGVs on journeys originating in Scotland to (ii) the index of Scottish Gross Domestic Product (measured in terms of the Gross Value Added for all industries).

Sources

3.9 Statistics of freight lifted and moved by road were provided by the Department for Transport, (DfT) from three sample surveys.

3.10 Domestic road freight activity by GB registered HGVs

3.10.1 Information about domestic road freight activity by GB registered HGVs is obtained from the DfT's Continuing Survey of Roads Goods Transport Great Britain

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(CSRGT GB). This collects details of the journeys that were made by a sample of heavy goods vehicles (HGVs: vehicles with a gross vehicle weight (weight of vehicle plus carrying capacity) of 3.5 tonnes or more).

3.10.2 Each week, a stratified sample of HGVs are randomly selected from the Driver and Vehicle Licensing Authority (DVLA) licensing records. The sample is stratified by region and type and weight of vehicle, in order that the sample surveyed is representative of the population of HGVs in GB. A questionnaire is sent to each selected vehicle's registered keeper, asking for information about the vehicle, and about every trip that it made in a sample week. The sample weeks are spread evenly across the year.

3.10.3 The origins and destinations are reported in the survey as the names of towns, or postcodes (where known). DfT standardises these origins/destinations to NUTS3 regions (an EU wide geography based on existing local administrative boundaries) using a computerised gazetteer, and validates these origins and destinations against other metrics such as the lengths of the routes between these places. These NUTS3 regions are then aggregated to the appropriate Region or Island Area for each Scottish origin and destination. DfT did not record origins and destinations in terms of the new Council areas before 2004. Following the completion of local government reorganisation across Britain, DfT has coded to NUTS3 regions that are used to produce statistics for the European Union. There are 23 of these areas in Scotland.

3.10.4 The results of the survey are grossed-up to produce estimates which represent the total road freight activity during the year, by all GB registered HGVs. This is done quarterly, in two stages. First, the sample vehicles' results are grossed up to the whole HGV population using the ratio of the average number of HGVs in each stratum (from DVLA licensing records) to the achieved sample for each stratum. The average number of HGVs in each stratum is calculated as the average of the numbers at the start and the end of the quarter). Then the results are multiplied by 13, to raise the activity in the sampled week to an estimate for the whole of the quarter.

3.10.5 As with any sample based statistics there will be a degree of sample error. The annual sample for Scottish vehicles is too small for detailed yearly analysis of the estimates, and so the table which shows the estimated flows of freight to and from the former Regions of Scotland was produced by combining the results from several years' surveys.

3.11 *International road freight activity by GB registered HGVs*

3.11.1 Statistics on international road freight activity are derived from DfT's International Road Haulage Survey (IRHS) which covers a sample of GB-registered heavy goods vehicles (HGVs with a gross vehicle weight (weight of vehicle plus carrying capacity) of 3.5 tonnes or more). Work by foreign-registered vehicles, and the transport of goods in unaccompanied trailers, is not within the scope of the survey. Other EU countries are responsible for monitoring the international movements of their own vehicles.

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3.11.2 The survey covers trips using roll-on/roll-off ferries and the Channel Tunnel to serve origins and destinations located outside of the UK, where the driver accompanies the vehicle throughout the journey. Trailers, when unaccompanied on a ferry crossing, are treated as domestic traffic when hauled to or from a UK port. If the trailer is subsequently picked up by a foreign vehicle, that leg of the journey will be recorded in the statistics of the country in which the vehicle is registered. These statistics therefore exclude traffic which is carried in unaccompanied trailers, or in foreign-registered vehicles.

3.11.3 GB hauliers with an International Operators Licence are asked to provide details of all international trips by its HGVs across a predetermined set of sample periods. Details of each trip are required, in those cases where a vehicle starts two (or more) international trips within the specified period.

3.11.4 The results of the survey – combined with international legs from the CSRGT NI survey - are grossed-up to produce estimates which represent the total road international freight activity by UK-registered HGVs during the year as a whole. The results are grossed to the total number of UK HGVs leaving the country collected by the Department for Transport's Roll-on Roll-off (Ro-Ro) survey, stratified by groups of ports.

3.12 Domestic and international road freight activity by NI registered HGVs

3.12.1 Information about domestic **and** international road freight activity by HGVs registered in Northern Ireland is obtained from the Continuing Survey of Roads Goods Transport Northern Ireland (CSRGT NI).

3.12.2 Due to the unique situation in relation to Northern Ireland and the Republic of Ireland, there is a higher prevalence for HGVs in Northern Ireland to perform international work (predominantly in the Republic of Ireland). As such the CSRGT is administered through a separate survey for NI registered vehicles, which records international activity as well as domestic activity.

3.12.3 Results from the CSRGT NI are grossed in the same way as the CSRGT GB described above. Domestic and international journey totals are added to the CSRGT GB and the IRHS respectively to produce estimates of domestic and international activity by UK-registered vehicles

3.13 Other Sources

3.13.1 Gross Domestic Product: The index used is an updated version of the index of Gross Value Added for all industries, published in Table 1.1 of *Scottish Economic Statistics 2008*.

3.13.2 Sources for data on rail, air and water freight can be found in the relevant chapter in this publication. Rail (Chapter 7), air (Chapter 8), water (Chapter 9), and international comparisons. (Chapter 12)

3.14 Further Information

3.14.1 Further information on the domestic and international activity of GB and UK registered HGVs can be found in the DfT publication *Road Freight Statistics: 2018*. DfT also produces another publication on the number of powered vehicles and unaccompanied trailers leaving Great Britain for Europe in its quarterly bulletin *Road Goods Vehicles Travelling to Europe*

3.14.2 Road freight statistics contact – Paul McEvoy, Head of Road Freight Statistics, Department for Transport (Tel: 07584 641273).

3.14.3 Index of Gross Domestic Product for Scotland - 0131 244 2234 or economic.statistics@scotland.gsi.gov.uk

3.14.4 Further information on rail, air and water freight can be found in the notes for the relevant chapter in this publication. Rail (Chapter 7), air (Chapter 8), water (Chapter 9), and international comparisons (Chapter 12).

3.14.5 Road freight data from 2011 to 2016 have been revised since the DfT publication *Road Freight Statistics: 2016*. Revisions on the domestic road freight series were made after a review of part of the methodology used to produce these estimates, where more information can be found [here](#). There were also slight revisions on the international road freight series after corrections were made to the number of roll-on roll-off vehicles reported, where more information can be found [here](#).

3.15 Other Data Sources

Department for Transport produce a number of related publications, including:

- Maritime and shipping statistics
- Port freight statistics
- Waterborne freight in the UK

Civil Aviation Authority

- UK Airlines – Annual Operating and Traffic Statistics

Office of Rail and Road

- Freight Rail Usage

Eurostat and the EC Directorate General for Energy and Transport

- EU Energy and Transport in Figures

Other Transport Scotland Publications:

- Freight in Scotland Report

Chapter 4 - Road Network

4. Notes and Definitions

4.1 The **trunk road network** is the responsibility of Scottish Ministers, and comprises all motorways and some of the main A roads (local councils are responsible for non-trunk roads). The Government's view, when it reviewed the trunk road network in 1994, was that the trunk road network should:

- provide the road user with a coherent and continuous system of routes which serve destinations of importance to industry, commerce, agriculture and tourism;
- define nationally important routes which will be developed in line with strategic national transport demands; and
- ensure that those roads which are of predominately local importance are managed locally.

4.2 On 1st April 1996, local government was reorganised, and the 32 present Councils replaced the former Regions, Districts and Island Areas. At the same time, changes were made to the trunk road network: about 580 km of former non-trunk roads became trunk roads, and over 340 km of former trunk roads ceased to be trunk roads.

4.3 **Major roads:** Motorways and A roads.

4.4 **Changes in road lengths:** Where there has been a change to the use of a Geographical Information System (GIS) as the basis of the road lengths figures, they may differ significantly from those for the previous year: see section 4.8.4. In 2012 the Trunk road figures were recalculated to include A road slip roads which had been excluded from the totals in previous publications. The time series has been updated to include this data resulting in an increase of 3-4% in Trunk road length and an increase in overall road length of 0.2%. The methodology for calculating the trunk road totals from the database has also changed resulting in some small changes to road lengths from those previously published.

4.5 **Operating Units:** Since 2001-02, the management and maintenance of the trunk road network has been performed by 4 Operating Companies (South West, North East, South East & North West). Details of the areas covered by these Units can be found in the Annex.

4.6 **Trunk road constructed, resurfaced,** etc in tables 4.3 and 4.4: Figures up to 1995/96 (which appeared in previous editions) were estimates based on the area that was treated, and an assumed standard lane width of 3.5 metres. From 1996/97 actual figures are produced from the Transport Scotland Trunk Roads Network Management.

4.7 Local authority road network condition

4.7.1 The statutory performance indicator for the condition of the local authority road network is defined as the percentage of the road network, derived from a combination of established condition parameters measured at network level, which should be considered for maintenance treatment, i.e. have reached a condition where more detailed monitoring or investigation is required to establish if and when remedial measures are required.

4.7.2 In 2007-08, the indicator changed from the former Scottish SPI, which included data on longitudinal profile, rutting and texture, to the new UK Standard Road Condition Indicator (RCI), which in addition includes data on carriageway cracking and takes account of the severity of each defect and its relative importance to road users. Further information about the collection of RCI data can be found at: <http://www.ukroadsliasongroup.org/en/asset-condition/road-condition-information/data-collection/scanner/SCANNER-Road-Condition-Index.cfm>

4.7.3 Information on the condition of local authority roads is collected in the Scottish Road Maintenance Condition Survey, which is co-ordinated by the Society of Chief Officers of Transportation in Scotland (SCOTS), on behalf of Scottish Local Authorities. The survey is described briefly in section 4.9.4. As with any survey, the nature of the methods used could lead to apparent minor year-to-year variations.

4.7.4 Where previously, a breach of any single parameter threshold would result in a 10 m-section being classified as amber or red; from 2007/08 onwards the new RCI each defect is assigned a score, dependent on its severity and relative importance, and the summation of the individual parameter scores is used to define the section category.

In order to present its results graphically and on maps, the following colour coding has been adopted:

- Green - a score less than 40 – the road is considered to be in an acceptable condition;
- Amber - a score of 40 or greater but less than 100 - further investigation should be taken to establish if treatment is required;
- Red - a score of 100 or greater - the road has deteriorated to the point at which repairs are likely to be required to prolong its future life.

4.7.5 The performance indicator covers the amber and red categories, taken together. It represents the percentage of the road network for which some kind of maintenance *may* be required. It does not take account of the difference in the costs of the treatments which may be required to restore the carriageway to an acceptable standard. The indicator does not currently cover edge deterioration, although it is the intention, subject to further research, to include this.

4.7.6 SCOTS notes that, when examining the results for individual local authorities, it is important to remember that local road networks vary in character, carry different volumes of traffic and serve widely disparate communities. In SCOTS' view, authorities should not be judged on the absolute values of their amber or red

proportions in any given year, but on their performance to improve the condition of their road networks.

Sources

4.8 Road lengths

4.8.1 Information on road lengths is mainly obtained from annual returns made to the Transport Scotland by Councils and by the trunk road management operators. (The figures for motorways are now prepared by Transport Scotland using a GIS - see section 4.8.3). These returns provide the total lengths of the roads for which the Council or trunk road management operator is responsible. The road lengths are categorised in a number of ways (e.g. by class of road, by type of road and by speed limit).

4.8.2 Because the returns provide only the total lengths of roads of various types (they do not provide any information about any individual roads) they can contain errors which cannot be detected, and, even in cases where an error is suspected, it may not be possible to determine how the figures should be corrected. There are a few cases of apparently unusual changes in the figures between one year and the next, which may be due to errors in the statistical returns (for example, it appears that the figures for dual carriageways may have been affected by the double-counting of some lengths of dual carriageway in some years).

4.8.3 Some councils now calculate their road lengths using GIS, which should reduce the number of errors in the longer term. However, changing to a GIS as the source of the statistics can cause a discontinuity in the figures. They will no longer be affected by any errors inherent in the old method of estimation. There may also be changes in the basis of the figures - for example, in the way in which the lengths of roads at roundabouts are counted. Different methods can give different results: for example, the straight-line distance across a roundabout will differ from the distance around the roundabout; or just half the distance around might be used (to represent the average distance which is travelled on the roundabout).

4.8.4 The effect of a change to a GIS as the source of the data can be seen using the figures for motorways for 2000, which were prepared by the then Scottish Executive using a GIS. The figures for each local authority area (which were published in Table 5.2 of *Scottish Transport Statistics no. 20 / 2001 edition*) could differ from the figures reported by the trunk road management operators for 1999 (which were published in the previous edition), even in local authority areas where there were no changes to the motorway network between April 1999 and April 2000. The then Scottish Executive derived its figures using particular ways of counting the road lengths for (eg) slip roads and roundabouts. The precise basis of the figures which were reported for earlier years is not known.

4.8.5 The change to the use of a GIS was also the reason why the length of unclassified roads reported by Falkirk Council increased from 400 km in 1999 to 572 km in 2000. In such a case, it must be assumed that the figures produced by the use of the new system are more reliable than those which had been provided previously.

4.9 *Trunk road network - residual life*

4.9.1 The physical condition of Motorways and trunk roads is monitored by annual condition surveys which are undertaken for Transport Scotland by specialist contractors. The surveys are designed to provide information about the structural, surface and safety condition of the road surface (which are referred to as pavements by the engineers). Road condition data is measured by a slow moving vehicle that tests the structural strength by pushing a weight onto the road and measuring how much it deflects. This is then analysed to assess how much life is left in the road pavement. A road network cannot be kept in perfect condition: there will always be some wear and tear, and it is most economic to replace a worn out carriageway at the end of its useful life. When there is no life (which is counted in the residual life <0 column in Table 4.5), the road requires close monitoring to ensure its overall condition does not deteriorate significantly before it is replaced. The data from the surveys is processed annually in a Pavement Management system so as to identify objectively performance and to target the available funds on those areas of greatest need.

4.9.2 The base network includes most motorways and dual carriageway trunk roads. The surveyed network also includes some single carriageway trunk roads. The surveyed network figures are on a cumulative basis – for example, the figure for 2002-03 represents the combination of the condition in 2002-03 of the roads which were surveyed in 2002-03, the condition in 2001-02 of the roads which were surveyed most recently in 2001-02, and so on. Therefore, the surveyed network figures do not represent the current position in each of the specified years: there may have been some improvement or deterioration in the condition of some of the roads since they were surveyed in earlier years. In addition, as the coverage of the surveyed network expands, it includes further roads, whose condition may differ significantly from that of the roads that were already in the surveyed network. Therefore, some of the apparent changes in the figures between years may be due to the expansion of the surveyed network.

4.9.3 Local authority road network condition - the Scottish Road Maintenance Condition Survey

4.9.4 The Scottish Road Maintenance Condition Survey, which is organised by the Society of Chief Officers of Transportation in Scotland (SCOTS) on behalf of Local Authorities, is carried out by a specialist contractor using vehicles accredited annually by the TRL. TRL also undertakes quality assurance checks throughout the year. The vehicles are equipped with lasers and high resolution cameras, to collect data for processing by computer and currently record:-

- The road geometry (gradient and shape);
- Variations in the longitudinal profile (evenness of ride along the road);
- Transverse profile variance (deformation across the road);
- Wheel track rutting / deformation in the wheel path ;
- The presence of cracking within the carriageway;
- Texture (roughness of the surface of the road);
- The extent of edge deterioration (due to over-riding or lack of lateral support).

As indicated previously in section 4.7, the construction of the Scottish road performance indicator was changed in 2007-08 to the new UK Standard Road

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Condition Indicator (RCI), with each ten metre stretch of road being assigned to one of three categories (Green, Amber or Red) depending on the overall defect score.

4.9.5 The survey currently aims to cover all local authority A roads in both directions every two years, all B and C roads in both directions every four years, and a 10% sample of unclassified roads in one direction each year. In order to minimise the effect of sampling errors on the result, the RCI for unclassified roads is calculated from four years data, as agreed with Audit Scotland and is in effect a rolling four-year indicator. While the survey machines have been calibrated and shown to provide consistent results, variations can occur due to minor differences in machine settings or in the path followed by the survey vehicle (which may well be dictated by, for example, the presence of other vehicles on particular parts of the road).

4.9.6 The SRMCS survey started in the 2002-03 financial year, when it covered all A roads in all local authorities plus a sample of the B, C and unclassified roads in *some* local authority areas. 2003-04 was the first year for which the survey covers a sample of all road categories in all local authority areas, and is therefore the first year for which results can be produced for Scotland as a whole.

4.10 Further Information

4.10.1 Information on GB road network statistics can be found in the Department for Transport annual publications *Road Traffic Statistics* and *Transport Statistics Great Britain*.

4.10.2 Further information on road lengths in Scotland is available from Transport Scotland's Trunk Road Network Management, contact Stuart Hay (tel: 0131 203 8738).

4.10.3 Further information on the construction of Scotland's trunk road network, is available from Mark Scott of Transport Scotland's Trunk Road Infrastructure and Professional Services (tel: 0141 272 7270).

4.10.4 Further information on the maintenance and the condition of Scotland's trunk road network, is available from Mark Scott of Transport Scotland Trunk Roads Network Management (tel: 0141 272 7270).

4.10.5 Further information on the Scottish Road Maintenance Condition Survey of the local authority road network, conducted on behalf of Councils by the Society of Chief Officers of Transportation in Scotland, is available from Graeme Ferguson, Project Manager (gferguson@pkc.gov.uk) or at www.scotsnet.org.uk.

4.11 Other data sources

Within Scottish Transport Statistics:

Chapter 5 – Road Traffic

Chapter 12 – international Comparisons.

Department for Transport produce a range of statistics on the GB network as referred to above and Eurostat compile road length statistics for EU countries, including a split by road type. See the notes for chapter 12 for more detail.

Chapter 5 - Road Traffic

5. Notes and Definitions

5.1 *The traffic estimates produced by the Department for Transport*

5.1.1 The methods that have been used to estimate the volume of traffic on *major* roads (Motorways and A roads) in Scotland have changed over the years. Section 5.1 describes the method which the Department for Transport (DfT) used to produce the estimates for 1993 onwards. The method used prior to this is explained in the Road Traffic chapter of earlier versions of this publication. Estimates of the volume of traffic on *minor* roads (B roads, C roads and unclassified roads) in Scotland that are suitable for publication are only available from 1993. Section 5.6 describes the methods used.

5.1.2 Please note that the DfT traffic estimates provide only a rough indication of the likely volume of traffic on the roads in each local authority area, and that **the DfT traffic estimates for individual Council areas are *not* National Statistics**. DfT provides the estimates that it produces for individual local authority areas as being *the best that it can produce from the limited amount of data available to it - rough indications of the likely volumes of traffic on roads in each Council area, for use with caution* as no better estimates are available. Therefore:

- it is *not* possible for DfT to quantify the possible margins of error around the estimates for individual local authority areas;
- they are *not* classed as National Statistics;
- more detailed breakdowns of the estimates for individual Council areas are *not* published.

5.1.3 DfT's methodology for estimating traffic volumes distinguishes between Motorways, urban roads (i.e. roads, other than Motorways, which are in urban areas) and rural roads (i.e. roads, other than Motorways, which are in rural areas). It defines an *urban road* as a road (other than a Motorway) that lies within the boundaries of an urban area which had a population of 10,000 or more in 2001 (using the Population Census boundaries for settlements); a *rural road* as located in an area with a smaller population. However, there are exceptions. DfT adjusted the urban/rural classification of stretches of major road which are on the outskirts of urban areas, in some cases where it was not possible to break them at a junction with another major or minor road. E.g. a stretch of road which is part of a trunk road bypass will usually be classified by DfT as rural (even the part of it which runs through an urban area) whereas a relatively short road between two urban areas that are close to each other will normally be classified by DfT as urban (even the stretch which is in a rural area). DfT's estimate these adjustments to have a small impact on the overall traffic estimates.

5.1.4 DfT's urban / rural classification of roads differs from the built-up / non-built-up classification of roads, used for the DfT traffic estimates prior to 2003. The built-up / non-built-up classification was based on speed limits, with roads with a speed limit of 40 mph or less being classed as built-up; those with a higher speed limit being non-built-up. For example, a dual carriageway with a 50 mph speed limit in an urban

area is counted as an urban road on the basis of its location, but as a non-built-up road on the basis of its speed limit. In contrast, a road with a 40 mph speed limit in a small town (population under 10,000) is classed as a rural road on the basis of its location, but as a built-up road on the basis of its speed limit. While most roads in urban areas have speed limits of 40 mph or less (so are built-up), there are many roads in small towns and villages in rural areas which also have speed limits of 40 mph or less (so are also built-up). Therefore, urban / rural traffic figures are not comparable to built-up / non-built-up traffic figures: the two could differ noticeably for some local authority areas. It will *not* be possible to quantify this, because each set of DfT's estimates were produced using only one of the two classifications, so there is no table which cross-tabulates the traffic estimates by both urban / rural and built-up / non-built-up. Also urban boundaries tend to change slowly over time, whilst there has been a trend for more roads in rural areas to be assigned speed limits of 40 mph or less. So, a time series for traffic on urban roads may show a different trend from a time series for built-up roads.

5.1.5 On 1st April 1996, local government was reorganised, and the 32 present Councils replaced the former Regions, Districts and Island Areas. At the same time, changes were made to the trunk road network: some former non-trunk roads became trunk roads, and some former trunk roads ceased to be trunk roads. Section 4.3 of the 2002 edition described how this affected the traffic estimates produced by DfT's previous methodology, and caused discontinuities in the series of figures for traffic volumes on major roads. DfT's traffic estimates are no longer affected by such discontinuities, because they count major roads on the basis of their trunk road status at a recent date, rather than on the basis of their trunk road status in the year in question. As a result, there is no discontinuity in the figures between 1995 and 1996. The new estimation method which DfT introduced in 2003 also removed some other discontinuities from the figures (again, details of these were given in previous editions).

5.2 Traffic flows at selected sites

5.2.1 The average daily traffic flows at Automated Traffic Classifier Sites are total past the point figures: traffic is counted in both directions. The estimated traffic flows are based on 7-day averages which include both weekdays and weekends. On occasion, the ATCS counters are not in operation for enough of the month to provide a reliable estimate: in these cases, .. is used to indicate that no estimate is available.

5.3 Traffic on specific trunk road routes: average time lost

5.3.1. Table 5.8 in previous editions of STS provided estimates of the time lost by traffic on particular routes. Due to a number of reasons including major changes to the network which would have required a substantial rework to the methodology, this table is no longer being updated.

5.4 Estimated consumption of petrol and diesel

5.4.1 The estimates for the consumption of petrol and diesel of road traffic relate to the areas in which the vehicles travelled rather than where the fuel was purchased or the locations of the registered keepers of the vehicles.

Sources

5.5 The method of estimating major road traffic volumes for 1993 onwards

5.5.1 Estimates of traffic volumes on major roads (Motorways and A roads) in Scotland by road type, vehicle type, and area within Scotland are produced by DfT in conjunction with the Transport Scotland Trunk Road Network Management (formerly Scottish Executive Trunk Roads Network Management Division) (TRNM).

5.5.2 The method of estimation has two main stages. First, traffic flows (which represent the numbers of vehicles flowing past particular points in a specified period) are estimated for each of the approximately 2,100 (in 2006) individual road links on Motorway and A roads in Scotland. (A *link* is normally a section of road between two major intersections). The estimates of the traffic flows on these road links are then combined with information about the lengths of the links, to derive total traffic volume estimates (measured in millions of vehicle kilometres) for major roads by road type, vehicle type and Council area. The *type* of a road is determined by its class (Motorway or A road), by whether or not it is a *trunk* road (trunk roads are those roads for whose upkeep Scottish Ministers are responsible), and by whether it is in an urban area or a rural area (see Section 3.1). The steps involved in each of these stages are described in subsequent paragraphs.

5.5.3 The estimates of traffic flows for the individual major road links for each year are derived by a methodology which involves the use of two different types of traffic counts: link and core:

- The road *link* traffic counts are taken manually, for 12 hours in one day, on a rotating basis (on average about once every four years), at each of the approximately 2,100 (in 2006) road links covering nearly all of the major road network in Scotland. These counts take place in neutral weeks during late March, April, May, June, September and October (the aim is to avoid counting, for example, during school holidays, and so to obtain counts which are representative of the level of traffic on each link). Traditionally, roughly one sixth of all the road links on the major road network were counted each year in Scotland, but the proportion counted each year has risen, and was about 22% in 2005 (compared with around 30% in England and Wales). At one time, the aim was to count each Scottish site once every six years. However, in 1999, the counting schedule was changed in order to improve the accuracy of the estimates: now, the more important links in Scotland should be counted more often, and the less important should be counted less often. Up to and including 2002, about 300 or so counts were taken each year. However, following a study of possible ways of improving the road traffic estimates for Scotland, the then Scottish Executive (SE) increased the number of counts (in 2006, there were about 480 or so per year). These 12 hours in one day counts must be scaled up to estimate the total flow of traffic for the year as a whole, and in order to reflect changes in traffic levels in the years after each count was taken. The core counters provide the information that is used in the scaling.
- The *core* counters are automatic traffic classifiers, which are located at selected sites on major roads through Great Britain. These operate, on the whole, continuously: 24 hours per day, throughout the year, and provide information

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about traffic flows classified by category of vehicle according to their length and number of axles. The locations of the core counters, taken together, cover a good cross-section of types of road. There are around 150 core sites on major roads (including motorways) in Great Britain, of which about 25 are in Scotland.

5.5.4 For the purpose of combining the data from the manual counts and the automatic counters, DfT allocates each road link, and each core counter, to one of 22 groupings of road type. These were based on a detailed analysis of the results from all the individual automatic counter sites, and take into account traffic flow levels, (GB) regional groupings, and the road's category, which is a combination of its class (e.g. Motorway, A road, etc) and its urban/rural classification. The groupings range from lightly-trafficked roads in holiday areas, such as Devon and Cornwall, to major roads in Central London. There are no groupings which consist solely of Scottish roads, because there are not enough core counters on roads in Scotland which are in the same category, and have similar levels of traffic flow, to form any separate Scottish groupings.

5.5.5 The estimated traffic flows for each major road link for the latest year are then derived by a series of calculations of which the following provides only a broad outline. The core traffic counters are used to derive two sets of factors, which are then applied to each of the 2,100 (in 2006) link counts:

- Expansion Factors for road type and vehicle type are used to scale the single day 12 hour link counts to provide estimated traffic flows for the whole year in which the counts were taken.
- Growth Factors for each road and vehicle type are used to scale estimated traffic flows in the previous year forward to the latest year, for those links which were not counted in the latest year.

5.5.6 DfT estimates the total traffic volume (in vehicle-kilometres) on each major road link by multiplying together the estimated traffic flow for the link and the length of the link. DfT obtains the length of each major road link, and identifies the Council(s) in which it is located, using a Geographic Information System (GIS). When a link lies completely within the area of one Council, its estimated traffic volume is counted wholly against that Council. In a case where a link crosses a boundary between Councils, it is split (for the purposes of the calculations) at the boundary into two separate links. Similar calculations are performed for each new link: the length within the relevant local authority (which DfT obtains from the GIS) is multiplied by the average traffic flow calculated for the original link (regardless of the Council area in which the traffic count was taken - because the original link was a section of road between major intersections, the traffic flow should not vary much along its length).

5.5.7 DfT compared its estimates for some motorway and trunk road links with the information that was available from the volumetric automatic traffic counters which are operated on motorway and trunk road links by TRNM, the Highways Agency in England and the Welsh Assembly Government in Wales. In general, there was a much closer correlation between the two sets of data than for the estimates which DfT had made in 2002 and earlier years. DfT noted that its estimates were slightly lower, and thought that there might be a number of reasons for this (e.g. the manual counters might miss some vehicles, the fact that the DfT core counters cannot be

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positioned on the most congested roads, etc). DfT therefore adjusted its expansion factors in order to eliminate the apparent slight bias in its overall estimates. DfT did not attempt to make its estimate for each individual link agree exactly with the total from any volumetric counter on that link because, for example, the volumetric counters on some links did not provide information for the whole of the year.

5.5.8 These calculations produce estimates of traffic volumes for each road link (or part of a road link) which is within the area of each Council. The estimated traffic volume for each Council is then obtained by adding up the estimates for the relevant links (or parts of links), and the estimates for Scotland as a whole are then produced by adding up the estimates for each Council. As indicated earlier, DfT produced the figures for trunk roads by counting each major road link on the basis of its trunk road status at a recent date.

5.5.9 DfT's estimates of the total volume of traffic on major roads in each local authority area are based on 12 hours in one day manual counts at an average of under 10 (up to 2002: under 15 for 2003 onwards) sites on major roads per Council per year - so they are clearly not based on much data. And, because the manual traffic counts are taken on a rotating census basis, there may be several years between successive counts at a particular site: in which time, there could be large changes in the volume of traffic there. The estimates therefore provide only *a broad indication of the likely volume of traffic on major roads in each Council area*. DfT notes that there could be some large percentage errors in its traffic estimates for the major roads in some local authority areas. Therefore, DfT's estimates for individual Council areas are *not* classed as National Statistics.

5.6 Method used to estimate traffic on minor roads for 1993 onwards

5.6.1 Estimates of traffic volumes on minor roads (B roads, C roads and unclassified roads) in Scotland by road type and vehicle type are produced by DfT in conjunction with TRNM.

5.6.2 The method used differs from that used for the major roads, because far fewer data are available for minor roads: up to and including 2002, only 200 or so 12 hours on one day manual traffic counts per year were taken at Scottish minor road sites. In each of the years up to 1997, a fresh sample of sites was picked by, in effect, taking a series of random points on a map, looking within a circle with a specified radius around each point, and identifying which (if any) minor road was nearest to the selected point. The number of other minor roads within the circle was used, at a later stage, when the results were grossed-up to produce the overall traffic estimates. This method of sampling was suitable for the production of results for GB as a whole, but not for Scotland: the kinds of minor roads in the Scottish sample could vary greatly from one year to the next, and, as a result, the Scottish component of the GB estimates was not sufficiently reliable to be published in its own right.

5.6.3 Over the years, a list of all the minor road sites that had been chosen in this way built up, and became the basis for selecting a panel sample of minor road sites to be counted in 1998 and later years. Taking the counts at the same sites each year should produce a better estimate of the year to year percentage change in the

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volume of traffic on minor roads. The sample was picked from a list of all the sites at which traffic counts had been taken between 1992 and 1997. Disproportionate stratified sampling was used, with a higher sampling fraction for roads which had had a greater volume of traffic, as this should produce more accurate results than a simple random sample of minor road sites. Sites with average flows of fewer than 200 vehicles per day were excluded altogether. Some of the sites chosen for the panel for 1998 were found to be unsuitable, and were replaced by substitute sites in the panel for 1999. There was little change in the composition of the panel of sites until 2003, when, following a study of possible ways of improving the traffic estimates for Scotland, SE increased the number of minor road traffic counts in Scotland to about 320 or so per year.

5.6.4 As with the major road traffic counts, the minor road 12 hour traffic counts must be expanded to estimate the flows for a whole day, and a whole year. This is done using expansion factors calculated from information recorded by a set of core automatic traffic classifiers located on a sample of roughly 40 minor roads across GB, of which about 5 are in Scotland.

5.6.5 The data from the GB-wide core automatic traffic classifiers were used to calculate growth and expansion factors for minor roads outwith London (with separate sets of factors for urban and rural roads of each class). There are too few core classifiers in Scotland for there to be any separate Scottish groupings.

5.6.6 The number of manual counts per year at minor road sites across Scotland represent an average per local authority area per year of only 6-7 (up to 2002) and only 10 (2003 onwards) - clearly, too few to be the basis for reliable estimates of minor road traffic for individual local authority areas calculated solely from the data collected in each year. DfT had therefore to estimate the volume of traffic on minor roads in individual local authority areas in other ways. DfT started by producing estimates of the volume of traffic on minor roads in each local authority area in 1999 (as that is the new base year for its panel of minor road manual traffic count sites). The information base for these estimates was widened to include manual counts taken in other years by uprating them to 1999 using the growth factors produced from the core counters. DfT used different methods for B roads and for other minor roads (C roads and unclassified roads).

5.6.7 *B roads*: DfT looked at the location and traffic levels of all the B road manual traffic count sites, including ones counted in the past that were not included in the panel sample, identified gaps in coverage and initiated extra counts where necessary. Using its knowledge of the variation in B road traffic by type of location, and the length of B roads in each area, DfT produced estimates of B road traffic for each local authority area.

5.6.8 *C and unclassified roads*: Estimating traffic on other minor roads was more difficult, and had to be done in another way. First, DfT estimated the average levels of traffic flow on each type of these roads across GB (e.g. urban C roads, etc), using the information from the minor road manual counts and core counters. Second, DfT compared the average levels of traffic flow on the non-trunk A roads in each local authority area with the GB average traffic flows for such roads. Third, DfT made the assumption that an area which has non-trunk A road flows that are above the GB

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averages will also have minor road flows that are proportionately greater than the corresponding GB averages, and that an area whose non-trunk A road flows are below the GB averages will have proportionately lower flows on its minor roads. DfT then estimated the flows for each type of minor road in a local authority by applying to the GB average flows for each type of minor road the relevant ratios (of its non-trunk A road flows to the corresponding GB averages). The resulting estimates were multiplied by the length of minor road of each type in that local authority to give the estimated minor road traffic volumes for the area. This produced what DfT considered to be sensible results for many local authorities. However, there were some areas for which DfT felt the results were odd in relation to those for nearby areas or similar areas. For these local authority areas, DfT undertook a more detailed study. This involved looking at the minor road traffic count data for different parts of the local authority, deriving a traffic intensity value for each part, and comparing the results with the traffic intensities of other local authorities for which DfT was confident about the minor road traffic estimates, in order to produce what DfT considered to be more credible estimates for some parts of the local authority. The resulting estimates were then added together to produce totals for the local authority as a whole, and the results for all the local authorities in Scotland were then added together to produce minor road totals for each area and for Scotland as a whole.

5.6.9 DfT used its estimates for 1999 as the basis for the estimates for earlier years and for later years. The minor road traffic volumes for the years prior to 1999 were estimated by applying year to year change factors, which were calculated from the information produced by the panel survey. The estimates for 2000 to 2003, inclusive, were produced by applying year to year change factors which were derived from the data collected by the GB-wide core automatic traffic classifiers. The methodology was changed for the production of the estimates for 2004, when the overall percentage changes in minor road traffic volumes between 2003 and 2004 were calculated using information, from the panel survey, about the percentage changes in traffic flow levels at each of the sites for which comparable results were available from the manual counts taken in the two years. In all cases, the estimates also took account of information about changes in the length of the minor road network.

5.6.10 Given the assumptions that DfT has to make, and the fact that its estimates of the total volume of traffic on minor roads in each local authority area are based on 12 hours in one day manual counts at an average of 6-7 (up to 2002: about 10 for 2003 onwards) sites on minor roads per Council per year, it is clear that *these estimates can only provide a broad indication of the likely volume of traffic on minor roads in each local authority area*. That is why figures for individual minor road types are not published for local authority area: *only* the *total* volume of minor road traffic for each area appears in Table 5.4, with *no* breakdown by type of minor road *within* local authority. DfT notes that there could be some large percentage errors in its traffic estimates for the minor roads in some local authority areas. Therefore, DfT's estimates for individual Council areas are *not* classed as National Statistics.

5.6.11 1993 is the first year for which there are estimates of the volume of traffic on minor roads for individual local authority areas, and also is the first year for which

there are estimates for Scotland as a whole. There are *no* reliable estimates of the total volume of minor road traffic in Scotland for 1992 or any earlier year.

5.7 Average time lost by traffic on specific trunk road routes

5.7.1 Table 5.8 in previous editions of STS provided estimates of the time lost by traffic on particular routes. Due to a number of reasons including major changes to the network which would have required a substantial rework to the methodology, this table is no longer being updated.

5.8 Scottish Household Survey

5.8.1 Information about the Scottish Household Survey is given in the notes for Chapter 12.

5.9 Estimated consumption of petrol and diesel

5.9.1 The figures for the petrol and diesel consumption of road traffic are estimated by AEA Energy & Environment, which was commissioned to do this by the Department of Energy and Climate Change. AEA produce the estimates using a range of data, including: (a) information from equipment, located alongside many A roads, which monitors the levels of various substances emitted by vehicles; (b) average fuel consumption factors (expressed in terms of grams of fuel per kilometre driven) for different classes of vehicles; (c) the Department for Transport's information about the traffic flows on each link of the major road network; and (d) the DfT's estimates of the total volume of road traffic on minor roads. AEA estimate the consumption of petrol and diesel separately for each type of vehicle for each Council area, producing more detailed estimates than appear in Table 5.10.

5.10 Further Information

5.10.1 Further information on GB road traffic statistics can be found in the annual DfT publications *Road Traffic Statistics* and *Transport Statistics Great Britain*, and also in the former DETR's *Focus on Roads* publication. DfT also has a Geographical Information System (GIS) website which provides statistics of major road traffic flows for Great Britain. The website enables users to access Annual Average Daily Flows (numbers of vehicles), and traffic (thousand vehicle kms) for each major road link in Great Britain. Information can be found at <http://www.dft.gov.uk/traffic-counts/>, alternatively contact Anna Heyworth at DfT Statistics Roads 2 branch (020 7944 2122)

5.10.2 For enquiries about DfT's methods of estimating road traffic, contact Penny Allen of the Department for Transport (0207 944 8057).

5.10.3 For further information on average daily traffic flows at selected Automated Traffic Classifier (ATC) Sites and on key routes on the road network contact Stuart Hay, Transport Scotland Trunk Road and Bus Operations, Operations Services (0131 203 8738).

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5.10.4 Scottish Household Survey congestion figures - Andrew Knight of the Scottish Government Transport Statistics branch (tel: 0131 244 7256).

5.10.5 Petrol and diesel consumption by road traffic - see Road transport energy consumption at regional and local authority level or Laura Williams of The Department of Energy and Climate Change (Tel: 0300 068 5045).

5.11 Other data sources

Within Scottish Transport Statistics:

Chapter 1 - Road vehicles,

Chapter 4 – Road Network

Chapter 6 - Road casualties

Chapter 11 - Personal Travel chapter (including travel to work)

Chapter 13 – Environment and Emissions

Other Transport Scotland Publications:

Transport and Travel in Scotland – includes more detailed analysis of SHS data, in particular:

Table 8 – Effects of traffic congestion

Table 5 – concessionary pass possession

Table 21 – Park and ride

Table 28 – Frequency of bus and train use

Tables 29 and 30 – Views on local buses and trains

Tables 31 and 32 – Concessionary pass use

Scottish Household Survey Travel Diary – includes detailed tables using the Travel Diary dataset, in particular:

Table 2 – journeys by mode of transport

Table 2a – journey distance by mode of transport

Table 4a – mode of transport by journey distance

Table 5a – distance summary statistics by mode of transport

SHS Local Authority Results – provides breakdowns of SHS data by Local Authority, Regional Transport Partnership and Urban Rural Classification. In particular:

Table 6 – Congestion delays

Table 16 – Proportion of journeys by mode of transport

Table 18 – Travel day

Table 19 and 20 – Distance travelled

Department for Transport produce a number of related publications, including:

Traffic estimates

Vehicle registrations

Chapter 6 - Reported Injury Road Accidents

6. Notes and Definitions

6.1 **Fatal injury:** an injury which causes death fewer than 30 days after the accident;

6.2 **Fatal accident:** an accident in which at least one person is fatally injured;

6.3 **Serious injury:** an injury which does not cause death fewer than 30 days after the accident, and which is in one (or more) of the following categories:

(a) an injury for which a person is detained in hospital as an in-patient

or (b) any of the following injuries (whether or not the person is detained in hospital): fractures, concussion, internal injuries, crushings, severe cuts and lacerations, severe general shock requiring treatment

or (c) any injury causing death 30 or more days after the accident;

6.4 **Serious accident:** an accident in which at least one person is seriously injured, but no-one suffers a fatal injury;

6.5 **Slight injury:** an injury which is neither fatal nor serious – for example, a sprain, bruise, or cut which is not judged to be severe, or slight shock requiring roadside attention;

6.6 **Slight accident:** an accident in which at least one person suffers slight injuries, but no-one is seriously injured, or fatally injured.

6.7 It follows that whether some injuries are classified as serious or as slight could depend upon hospitals' admission policies, or upon other administrative practices, and therefore changes in the numbers of injuries of these two types could result from changes in admissions policies or other administrative practices.

6.8 **Built-up roads:** accidents which occur on built-up roads are those which occur on roads which have speed limits of up to and including 40 miles per hour (ignoring temporary speed limits on roads for which the normal speed limit is over 40 mph). Therefore, an accident on a motorway in an urban area would not be counted as occurring on a built-up road, because the speed limit on the motorway is 70 mph. An accident on a stretch of motorway with a temporary speed limit of 30 mph would not be counted as occurring on a built-up road, because the normal speed limit is 70 mph.

6.9 **Children:** people under 16 - years old.

6.10 **Pedestrians:** includes people riding toy cycles on the footway; people pushing or pulling bicycles or other vehicles or operating pedestrian-controlled vehicles, those leading or herding animals, occupants of prams or wheelchairs, and people who alight from vehicles and are subsequently injured.

6.11 **Estimated Accident Costs:** these are intended to encompass all aspects of the costs of casualties including both the human cost and the direct economic cost. The human cost covers an amount to reflect the pain, grief and suffering to the

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casualty, relatives and friends, and, for fatal casualties, the intrinsic loss of enjoyment of life over and above the consumption of goods and services. The economic cost covers loss of output due to injury and medical costs. The cost of an accident also includes:

- i the cost of damage to vehicles and property; and
- ii the cost of police and insurance administration.

Also estimated are the number of damage only accidents (around 14 times the number of injury accidents) and their average costs.

6.12 Scotland's road safety framework 2020 targets

Scotland's Road Safety Framework was launched in June 2009. It set out the vision for road safety in Scotland, the main priorities and issues, and included Scotland-specific targets and milestones which have been adopted from 2010.

Target	2015 milestone % reduction	2020 target % reduction
People killed	30%	40%
People seriously injured	43%	55%
Children (aged < 16) killed	35%	50%
Children (aged < 16) seriously injured	50%	65%

6.13 Each reduction target will be assessed against the 2004/08 average. In addition to the targets, a 10% reduction target in the slight casualty rate will continue to be adopted.

6.14 The four main targets differ to previous targets in that deaths have been separated out from serious injuries as, in recent years, trends have been different - serious injuries falling steadily but deaths declining at a lower rate.

6.15 To illustrate the reductions necessary the following table show the level of casualties inferred by the 2015 milestones and 2020 targets above.

	2004/2008 average	2015 milestone	2020 target
People killed	292	204	175
People seriously injured	2,604	1,484	1,172
Children (aged < 16) killed	15	10	8
Children (aged < 16) seriously injured	325	163	114

6.16 Due to small numbers, the child fatality target will be monitored using a three - year rolling average.

Sources

6.17 The statistics were compiled from returns made by Police Scotland, which cover all accidents in which a vehicle is involved that occur on roads (including footways) and result in personal injury, if they become known to the police. The vehicle need not be moving, and need not be in collision - for example, the returns include accidents involving people alighting from buses. Very few, if any, fatal accidents do not become known to the police. However, there will be non-fatal injury accidents which are not reported by the public to the police, and so are not counted in these statistics. *Reported Road Casualties Scotland* (see paragraph 5.1) provides more information on this matter.

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6.18 Damage only accidents are not included in the above definition, and so the road accident statistical returns do not cover damage only accidents. It is thought that the number of damage only accidents is about fourteen times the number of reported injury road accidents.

6.19 Further Information

6.19.1 For more detailed statistics of injury road accidents and a full description of the terms used see *Reported Road Casualties Scotland* and also the *Key Reported Road Casualties Scotland* Statistical Bulletin. The figures they contain may differ slightly from those published here due to late returns and amendments made to the database in the periods between the finalisation of the statistics for the purpose of the publications.

<http://www.transportscotland.gov.uk/statistics/statistical-publications>

6.19.2 Information about the numbers of injury road accidents in Great Britain is given in the annual DfT publications, *Reported Road Casualties Great Britain Annual Report* and *Transport Statistics Great Britain*.

6.19.3 Analysis of alternative data sources for road casualties statistics in Scotland were included in an Article 3 of *Reported Road Casualties 2011*. An article on undercounting of road casualties was also included.

6.19.4 For further information on injury road accident statistics contact Andrew Knight of the Transport Scotland Transport Statistics Branch (tel: 0131 244 7256).

6.20 Other data sources

Within Scottish Transport Statistics:

Chapter 2 – Road transport vehicles

Chapter 4 – Road network

Chapter 5 – Road traffic

Other Transport Scotland statistics publications:

Reported Road Casualties Scotland provides more detailed tables and analysis of the 2013 data.

Key Reported Road Casualties Scotland will be published in June 2015 providing provisional headline figures for 2014.

Department for Transport produce *Reported Road Casualties Great Britain* as well as estimates of accident costs and drink drive.

Non Official Statistics sources

Transport Scotland

Scotland's Road Safety Framework sets out the policy for road safety in Scotland.

Eurostat compile data for road safety from EU countries, see chapter 12 for more details.

World Health Organisation produce road safety figures for a number of countries worldwide.

Rail Services

7. Notes and Definitions

7.1 All the statistics are based on the sales of tickets, with the rail industry's central ticketing system (formerly called CAPRI - Computer Analysis of Passenger Revenue Information, now replaced and renamed LENNON - Latest Earnings Nationally Networked Over Night) being the source of most of the figures. LENNON holds information on all national rail tickets purchased in Great Britain. LENNON does not include journeys made by people without tickets, by railway staff using special passes, and by blind people under a free concessionary travel scheme. A single ticket is counted as one passenger journey, a return ticket is counted as two passenger journeys (one in each direction), and the number of journeys made by holders of season tickets is estimated from the sales of such tickets, using the standard factors for season tickets of various lengths which are adopted for the production of National Rail passenger statistics. There is multiple counting when a passenger uses more than one ticket to make a journey (e.g. a journey from A to B, and then on to C, using a separate single ticket for each of the journey stages would be counted as *two* passenger journeys)

7.2 LENNON does *not* record directly sales of certain products, including:

- some operator-specific tickets;
- some types of promotional fares (such as two for the price of one) and combined rail plus add-on tickets (e.g. covering a journey by rail and admission to an attraction);

7.3 Figures for Scotland are produced on two different bases (due to differences in the available information). In ascending order of size, they are:

- ScotRail passenger train journey stages - used for Table 7.1
- ORR passenger journeys - used for Tables 7.2 – 7.8;

7.4 **ORR Passenger journeys:** these figures are produced by adding together:

- the numbers of passenger journeys made using national rail tickets - produced from LENNON information about national rail ticket sales, as described in the previous paragraph; and
- estimates of the numbers of certain types of passenger journey that are not recorded directly by LENNON, such as those which are made using some types of promotional fares, combined rail plus add-on tickets, and multi-modal travelcard type tickets, such as the SPT Zonocard.
- ORR figures include estimates of zonocard trips using a slightly different basis to ScotRail estimates and therefore figures are not comparable.

7.5 **ScotRail passenger train journey stages:** these figures are produced from:

- data which have been subject to the ORCATS process (Operational Research Computer Allocation of Tickets to Services). This uses the national rail ticket sales information from LENNON to allocate the revenue from a passenger's ticket to the Train Operating Companies (TOCs) which provide the services on the route or routes which were used for the passenger's journey. In the ORCATS process, *a passenger journey that would involve a change of train is counted against each of the trains that would be used in the course of that journey.*
- For example, a journey made using a through single ticket from North Berwick to Carlisle would be counted twice, to reflect the fact that the passenger would use one train from North Berwick to Edinburgh, and then change at Edinburgh to another train to Carlisle. This is done in order that the revenue relating to the ticket can be allocated pro rata to the operators of the different trains used in the course of the journey. Therefore, figures in Table 7.1 represent the numbers of different trains used in the course of journeys on ScotRail services, *not* the actual numbers of journeys made (hence differs from the ORR).
- Estimates of the numbers of journeys (or parts of journeys) made using tickets (such as Zoncards) whose sales are *not* recorded directly by LENNON (some of these estimates are added after the allocation process).
- ScotRail revised its methodology to better estimate Strathclyde Zoncard journeys from 2009/10. To allow meaningful year on year comparisons to be made passenger figures from 2003/04 onwards present the impact on previously published figures. Note that Office of Rail and Road figures are compiled on a different basis and do not adjust for this.

7.6 **Journeys originating in Scotland, and cross-border journeys:** the statistics are compiled on the basis of where each journey starts. For example, someone who used a Zoncard to travel from a suburban station to, say, Glasgow Central, and then bought a single to (say) Manchester, would be counted as making one internal (within Scotland) journey and one cross-border originating in Scotland journey.

7.7 **Ticket types:** the following are identified:

- Full fare - e.g. first class, standard single and standard open return;
- Reduced fare - e.g. saver, supersaver, cheap day return, special promotional fares, such as two for the price of one and combined rail plus add-on tickets (see below);
- Season tickets - includes Zoncards.

7.8 **Journeys datasets in LENNON** - LENNON contains two datasets - pre-allocation (sales) and post-allocation (earnings). Allocations are created for each ticket group, dependant on sales levels, by ORCATS (Operational Research Computer Allocation of Tickets to Services). These allocations are principally used to apportion journeys between TOCs. ORCATS is a mathematical model, which was introduced in the 1980s, which uses a similar logic to journey planning systems and identifies passenger 'opportunities to travel' from an origin station to a destination station using timetable information. An opportunity to travel may include one or more changes of train and one journey will be generated for each train used during an opportunity to travel. This will result in the number of journeys being inflated by

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around 5%, compared to the pre-allocation dataset which does not assign journeys between TOCs.

7.9 **Revenue:** this includes all ticket revenue and miscellaneous charges associated with passenger travel, such as car park charges earned by the Train Operators. In the case of combined rail plus add-on tickets (e.g. a ticket which covers both a journey by rail and admission to an attraction, or a ticket which covers both a journey by rail and a bus, taxi or ferry journey from the destination station) the figures held in the database for revenue from the sales of such tickets do not indicate how much relates to the rail travel. Therefore, *all* the revenue from the sales of such tickets is counted in these statistics.

7.10 **Concessionary fares:** the figures for revenue include payments made by passengers for concessionary fares, but *not* the additional payments made by local authorities and the Strathclyde Partnership for Transport to reimburse the train operator for the difference between the concessionary fare and the normal fare for the journey (because these are not recorded in the database).

7.11 **Passenger journeys by local authority:** Table 7.6a and Table 7.6b are taken from the ORR National Rail Statistics Regional Usage Chapter. Table 7.6c is calculated on a similar basis and replaces versions of the table included in earlier versions of STS as the new methodology corrects the allocation of multi-trip tickets between Edinburgh and Glasgow.

7.12 **Passenger journeys, using national rail tickets, to and from particular stations**

7.12.1 The figures in Tables 7.7 and 7.8 are produced from information about through tickets sold for journeys between different destinations, and are subject to the same points as were made in the earlier paragraph on passenger journeys made using national rail tickets. However, there are differences, because the figures in these tables aim to represent the numbers of people using each individual station (but not counting those who change trains there, unless they buy another ticket: these figures are of entries and exits to/from the national rail system, not counting interchanges). Normally, a single journey between two stations within Scotland will be counted *twice* (once against the origin station and once against the destination station) and a single journey between Scotland and England will be counted only once (against only the station in Scotland). However, when the contractor working for the Office of Rail Regulation (Now called the Office of Rail and Road - ORR) produced the figures, there were two complications, the second of which caused some journeys to be counted less than this:

- in the case of some places with more than one station, it is possible to buy a ticket which allows travel to and from any of the stations at that place. Such tickets are recorded in the database as being to/from a group station (e.g. Glasgow stations) rather than being to/from any particular station (e.g. Central or Queen Street). When the ORR's contractor produced statistics of the numbers of passengers using each station (like those in Table 7.7), it split the numbers of journeys made using tickets which specified origins/destinations as places (e.g. Glasgow) between the relevant stations. This could be based on information

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about services and passenger numbers for the places concerned, or could simply count them all against the major stations within the group

- it is possible to purchase national rail tickets for travel between a particular station (or place) and an SPT zone in Glasgow - the ticket allows the traveller to use *any* of the stations in that SPT zone. Such tickets are recorded in the database as being between the specified place and the SPT zone. Prior to 2008 - 09, when producing the station usage statistics, the ORR's contractor counted journeys against origins/destinations outwith Glasgow as described above. They were unable to count any origins/destinations recorded as SPT zones to specific Glasgow stations as it had no basis on which to split the journeys made using such tickets between the stations in the zones. This resulted in an underestimation of the number of passengers using Glasgow stations (in addition to the exclusions, mentioned earlier, such as journeys made using SPT zonecards).

7.12.2 However, from 2008–09, ORR's contractor has assigned the previously unknown origin/destinations. Information provided by the PTEs has been used to estimate the number of journeys made on national rail services on PTE sold tickets that are not captured in the rail industry's LENNON system.

7.12.3 Station usage figures were produced on this basis for every station in Great Britain, and made available on the ORR Web site, as described in section 5. The ORR station usage data consist of separate estimates of the total numbers of people entering, exiting and interchanging at stations. The station usage information from which Table 7.7 was produced is based on ticket sales covering all National Rail stations throughout England, Scotland and Wales. (It does not include those stations that are owned by London Underground. The ticketing system does not record certain journeys made using TfL bought travelcards, TfL Freedom Passes, staff travel passes and certain other PTE specific products. However, from 2008 – 09 the data now includes estimates of journeys and revenue made on zonal products sold outside of the main ticketing database.

7.12.4 The calculation of station usage levels uses sales recorded in the railway ticketing system prior to their allocation to individual operators, and so does not take into account any changes of train during the course of a journey. The figures which appear in Table 7.7 are estimates of the numbers of entries and exits, and do not include the estimated numbers of people who change trains at the specified stations (unless they buy another ticket there).

7.13 Rail punctuality - Public Performance Measure

7.13.1 The Public Performance Measure (PPM) combines punctuality and reliability into a single measure of the performance of individual trains against the planned timetable for the day, which may differ from the published timetable (e.g. due to engineering works, speed restrictions, flooding, etc).

7.13.2 For long-distance operators (such as GNER, Virgin CrossCountry and Virgin West Coast) the PPM is the percentage of trains arriving within *ten* minutes of timetable at the final destination; for regional operators (such as ScotRail) the PPM

is the percentage arriving within *five* minutes of timetable. (The definitions differ because, in general, long-distance operators' trains run further than regional operators' trains.) The figures relate to *all* the services which are provided by the operator, so (for example) the PPM for GNER is an overall measure for all its trains, *not* just for those which run to, from or within Scotland.

7.13.3 Trains which complete their journey are measured for punctuality at the final destination. When a train fails to run its entire planned route, calling at all timetabled stations, it is either shown as cancelled (if it runs less than half of its planned mileage) or counted in the 20 or more minutes late band. Therefore, such a train would *not* be counted as arriving at the final destination within the number of minutes specified in the PPM.

7.14 Passengers in excess of capacity

7.14.1 From 2001 to 2003, the former Strategic Rail Authority monitored overcrowding on Edinburgh commuter services across the Forth Bridge . Passengers in excess of capacity (PIXC) was calculated for weekday commuter trains which arrived in Edinburgh between 07:00 and 09:59, or which departed between 16:00 and 18:59.

7.14.2 PIXC was calculated as the number of passengers travelling in excess of capacity on *all* of the specified services divided by the total number of passengers travelling on those services, and expressed as a percentage. For journeys of more than 20 minutes, capacity was deemed to be the number of standard class seats on the train; for journeys of 20 minutes or fewer, there was also an allowance for standing room (which varies with the type of rolling stock - e.g. for modern sliding door stock, it was typically of the order of 35% of the number of seats).

7.14.3 The SRA set limits on the level of PIXC at 4.5% on one peak, and 3.0% across both peaks. However, there is no requirement to monitor passengers in excess of capacity under the current Scottish passenger rail franchise, which applies from 17 October 2004 (the date when First Group took over the operation of the ScotRail franchise) - and therefore such information is no longer collected.

7.15 Rail passenger satisfaction: National Rail Passenger Survey

7.15.1 Passengers' ratings of their train journeys are shown in three groups: those which are regarded as generic; those which relate to the station; and those which relate to the journey.

7.15.2 The table shows the percentages who said that they were satisfied / very satisfied with each factor, or who rated it as good / very good. The difference between the percentage shown for a factor and 100% is made up of *both*

(a) those who said that they were dissatisfied / very dissatisfied, or who rated it poor / very poor; *and*

(b) those who said that they were neither satisfied nor dissatisfied, or who rated it neither good / very good nor poor / very poor.

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7.15.3 A passenger who changes trains later in the course of a journey is asked for his/her views of the *first* station and the *first* train that was used of the journey after they were given a questionnaire. In all analyses, such a person's answers are counted against the operator of the first train.

7.15.4 ScotRail is classified as a regional operator by the Office of Rail and Road, therefore results for ScotRail should be compared with those for all GB regional operators that appear in the table. 'Others whose journey started in Scotland' is made up of long distance routes and these results should be compared with all GB long distance operators.

7.16 Freight traffic

7.16.1 *Freight traffic*: the figures for 1996-97 onwards were prepared from information supplied by the rail freight companies. The numbers of tonne-kilometres in those years relate to the whole distance that the freight is carried on the companies' trains, *not* just to that part of the journey which is within Scotland.

7.17 Origins and destinations of freight traffic:

7.17.1 Three points should be noted about the figures which have been provided by the rail companies for 1996-97 onwards:

- (i) lifted within Scotland includes freight from abroad which arrives at a Scottish port (e.g. Hunterston) and is lifted from there by rail;
- (ii) lifted outwith UK includes freight from abroad which was imported via ports in England and Wales (eg Teesside) and was then brought from there into Scotland by rail;
- (iii) lifted within Scotland, delivered outwith UK includes freight which is delivered to a Scottish port (eg Leith) or to an English port (eg Southampton) for export

7.17.2 It follows that the figures in the tables for freight lifted or delivered outwith the UK cover much more than just rail traffic which goes through the Channel Tunnel.

7.17.3 There are *no* statistics available for freight lifted or delivered outwith UK in the years prior to 1996-97. In the figures that were produced for those years, traffic delivered by rail to ports for export was counted on the basis of the location of the port, and so was counted under either Scotland or elsewhere in the UK. Similarly, freight which was imported, and picked up by rail at a port, was counted on the basis of the location of the port. However, the figures that were produced for those years excluded any international freight traffic through the Channel Tunnel (for which freight services commenced in June 1994).

7.18 Other statistics

7.18.1 Railway Accidents: the statistics are of railway incidents statutorily reported under *The Reporting of Incidents, Diseases and Dangerous Occurrences Regulations 1995 (RIDDOR)*. These regulations came into force on the 1 April 1996 and brought railway accident reporting in line with other industry accident reporting. The fatalities are classified by the former Region because those are the areas which

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are shown in the Rail Atlas which HM Railway Inspectorate uses to identify the locations of the fatalities. Due to an EU safety directive which came into force in 2006, railway accident statistics in table 7.19 and 7.20 have been changed from a financial year basis to a calendar year basis with effect from 2003.

Sources

7.19 Tables 7.1, 7.2, 7.3 (ScotRail figures) and 7.4 to 7.8 were supplied by the Office of Rail and Road, which produced the numbers of passenger journeys, and the associated revenue, from information held in the LENNON database. This records the number of tickets, and the associated revenue, for journeys between every pair of railway stations in Great Britain, and other information, such as estimates (which are sent to it by ScotRail) of the numbers of rail journeys which were made by holders of SPT's multi-modal Zonocard - for further details, please see the notes and definitions in Section 3. As indicated earlier, the ORR provided revised figures for 2003-04 and earlier years for Tables 7.1, 7.2 and H1. Some of the other tables include figures for 2003-04 and earlier years which appeared in previous editions, having been supplied by the former Strategic Rail Authority, which derived them in a similar way. Table 7.6 in the 2012 publication is taken from the ORR National Rail Statistics, regional usage chapter. *Note that the table showing travel between Local Authorities included in previous versions of STS has not been included in this publication as the methodology used to allocate journeys is being investigated. An updated version of the table will be included on the website in due course.*

7.20 The SPT figures in Table 7.17, were compiled from information provided by the Strathclyde Partnership for Transport.

7.21 The rail punctuality (Public Performance Measure) figures in Table 7.9 and 7.10 were provided by the ORR. The punctuality of trains is generally recorded using automated monitoring systems, which log performance using the signalling equipment.

7.22 The rail passenger satisfaction survey figures in Table 7.11 were provided by Transport Focus. The survey is conducted by distributing self-completion questionnaires, with reply-paid envelopes, to about 700 stations across GB, which are selected to be representative of the entire network, including about 50 stations in Scotland. A few shifts are also conducted on train. The questionnaires are distributed at different times of the day and across different days of the week. There are two survey periods per year: Spring and Autumn. The overall response rate is about 31%. The data are weighted to represent the passengers using each operator's services. Data is weighted by journey purpose, station size and by weekend/weekday. Transport Focus publishes the results of the Spring and Autumn surveys separately, but has combined them for publication here, in order to provide annual figures.

7.23 Tables 7.12 and 7.13: the figures for 1996-97 and later years were prepared from information supplied by the rail freight companies.

7.24 Tables 7.14, 7.15 and 7.16 were compiled from information supplied by Network Rail.

7.25 Tables 7.18 and 7.19: figures for these tables were previously obtained from Office of Rail and Road. We have now changed the source to the RSSB to improve consistency with other official statistics.

7.26 Further Information

7.26.1 Rail statistics for Great Britain are available from the annual DfT publication *Transport Statistics Great Britain* and from the Office of Rail and Road's quarterly [National Rail Trends](#). The fourth quarter edition of *National Rail Trends* also includes figures for individual Train Operating Companies and for Scotland, Wales and the regions of England. Figures for the 100 busiest stations are available on the ORR Web site <http://orr.gov.uk/statistics/published-stats/station-usage-estimates> - tel: 020 7282 2192/2196 or rstats@orr.gsi.gov.uk.

7.26.2 Passenger satisfaction figures from the National Rail Passenger Survey - contact David Greeno of Transport Focus (tel: 0300 123 0837).

7.26.3 Services supported and/or operated by Strathclyde Partnership for Transport (including Glasgow Subway) – Martin Breen of SPT (tel: 0141 333 3741).

7.26.4 Railway accidents – Peter Moran, Office of Rail and Road (tel: 0207 282 2074) email rstats@orr.gov.uk.

7.26.5 Network Rail statistics - contact David Boyce (tel: 0141 555 4107).

7.27 Other data sources

Within [Scottish Transport Statistics](#):

Chapter 11 - Personal Travel chapter (including travel to work)

Other [Transport Scotland](#) Publications:

[Transport and Travel in Scotland](#) – includes more detailed analysis of SHS data, in particular:

Table 28 - Frequency of bus and train use

Tables 29 and 30 - Views on local buses and trains

[Scottish Household Survey Travel Diary](#) – includes detailed tables using the Travel Diary dataset, in particular:

Table 2 - journeys by mode of transport

Table 2a - journey distance by mode of transport

Table 4a - mode of transport by journey distance

Table 5a - distance summary statistics by mode of transport

[SHS Local Authority Results](#) – provides breakdowns of SHS data by Local Authority, Regional Transport Partnership and Urban Rural Classification. In particular:

Table 16 – Proportion of journeys by mode of transport

[Department for Transport](#) publish the results of the National Rail Travel Survey which covers passenger journeys in Great Britain.

[Office of Rail and Road](#) publish a range of statistics for GB including [National Rail Trends](#), which includes a section on regional usage providing data at Scotland level (some of which is replicated in this chapter). There is also a Data Portal available through the ORR website.

[Non Official Statistics sources](#) include rail service providers.

Chapter 8 - Air Transport

8. Notes and Definitions

8.1 **Aircraft Movement:** an aircraft take-off or landing at an airport: one arrival and one departure are counted as two movements. Air transport movements are landings or take-offs of aircraft engaged in the transport of passengers or cargo on commercial terms. All scheduled service movements, whether loaded, empty or positioning; and charter movements transporting passengers or cargo and air taxi movements are included.

8.2 **Types of passenger:** a *terminal passenger* is one who joins or leaves an aircraft at the reporting airport, excluding passengers carried on air taxi charter services. A passenger travelling between two reporting airports is counted twice, once at each airport. There are two types of terminal passenger: *terminating passengers*, who arrive or depart at the airport by a surface means of transport; and *transfer passengers*, who change aircraft at the airport. A *transit passenger* is one who arrives at and departs from a reporting airport on the same aircraft which is transiting the airport. Each transit passenger is counted once only.

8.3 **Freight:** the weight of property carried out on an aircraft including, for example the weight of vehicles, excess baggage, and diplomatic bags, but excluding mail and passengers' and crews' permitted luggage. Freight carried on air taxi services and in transit through the airport on the same aircraft is excluded.

8.4 **International Services:** Services to and from Scotland from places outside the UK, Isle of Man and Channel Islands.

8.5 **International and Domestic Destinations:** the figures in Tables 8.2 to 8.7 are based on the origin and destination of passengers as reported to UK airport authorities by the airport handling agent. Operators are required to report in respect of each service operated, the point of uplift and discharge of each passenger. The figures may not reflect a passenger's entire air journey: the point at which a passenger disembarks from a particular service may not represent his ultimate destination. In some cases the actual point of uplift or discharge is not recorded. In such cases all passengers are allocated to the end point of the service, i.e. the aircraft's origin or ultimate destination. The figures include all passengers carried on scheduled and chartered services excluding those charter passengers carried on air taxi service and passengers carried on aircraft chartered by Government Departments. In Tables 8.3 and 8.4, international traffic figures are given for each country for which scheduled traffic was reported until and including 2004 data. In cases where charter only routes carried fewer than 5,000 passengers, the countries concerned may not appear separately in Table 8.3, and may be shown under "Other international traffic" in Table 8.4. All non- air taxi is recorded individually.

8.6 Air punctuality statistics

8.6.1 These statistics cover both arrivals and departures. They relate solely to punctuality at the specified airport. For example, the information which is used about flights from Edinburgh relates only to the punctuality of their departure, so the

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statistics take no account of any subsequent delays before landing at, say, London. Similarly, the information which is used about arrivals at Edinburgh relates only to the time of arrival (no allowance is made for whether or not the flight departed on time from the airport of origin).

8.6.2 The calculations cover those flights for which information about the planned and the actual times of operation has been matched - for example, cancelled flights, and flights which are diverted to or from another airport, are excluded (the numbers of such flights are included in the figures which are given for unmatched flights).

8.6.3 The percentages early to 15 minutes late would probably be lower, and the average delays would probably be higher, if these statistics were calculated in the same way as the rail punctuality statistics (the latter are based on the time of arrival at the destination, and take account of cancellations).

8.6.4 All cargo and air taxi services are excluded.

8.6.5 **Unmatched actual flights** are air transport movements which actually took place at the airport, but for which no corresponding planned flight was found. There may be a number of reasons for this, such as:

- the flight was a diversion from another airport;
- the flight was a short-haul flight more than one hour before the planned time;
- the flight was planned to take place in the previous month;
- errors in, or omissions from, the records of Airport Coordination Ltd (ACL) or the airport.

8.6.6 **Unmatched planned flights** are those which were reported in data supplied by ACL, but for which no corresponding air transport movement return has been found. There may be a number of reasons for this, such as:

- the flight was diverted to another airport;
- the flight was cancelled;
- the planned time was for a short-haul flight more than one hour after the flight;
- the flight took place in the following month;
- errors in, or omissions from, the records of ACL or the airport.

8.6.7 **Average delays:** the averages relate to all flights – not just to the ones which were delayed. With effect from January 2000, flights which are early are counted as zero delay; prior to that they were counted as a negative delay. As a result, the average delays for 2000 onwards are not directly comparable with the figures for 1999 and earlier years. This accounts for the whole of the apparent increase in the averages for Glasgow for 2000: when the Civil Aviation Authority (CAA) recalculated the averages for 1999 on the current basis, it found that they would be two minutes more than when calculated on the original basis. A similar recalculation using the data for Edinburgh for 1999 suggested that the change had no effect on its averages, when these were rounded to the nearest whole minute.

8.6.8 **Taxi-ing time:** the CAA changed its assumption for the taxi-ing time for Edinburgh airport departures from 5 minutes to 10 minutes with effect from the start of 2001. As a result, the punctuality and average delay figures for Edinburgh for 2001 onwards are not on the same basis as the figures for 2000 and earlier years.

However, when the CAA recalculated the figures for Edinburgh for 2000 on the current basis, it appeared that this change did not affect the averages or the percentage early or within 15 minutes, when these were rounded to the nearest whole number.

8.7 Route Development Fund

8.7.1 The Route Development Fund (RDF) formally ended on 31 May 2007 and has not been replaced. It has not proved possible to introduce a replacement route development scheme within the constraints imposed by the European Commission. However, the Scottish Government continues to work with airlines and airport operators on the development of new international air routes which improve business connectivity, encourage inward investment and make Scotland more accessible for inbound tourism. As Table 8.16 that was included in previous publications can no longer be updated it has been removed. Versions of the table and information about the RDF can be found in previous editions including STS 2011.

8.8 Survey of passenger characteristics

8.8.1 **International and domestic passengers:** a passenger is classified as domestic if his/her flight is between two points which are within the UK or the Channel Islands).

8.8.2 **Business and leisure journeys:** the business category includes purposes such as meetings with customers, conferences, trade fares, armed services and airline staff, studies paid for by an employer, overseas employment, etc. The leisure category includes holidays, visiting friends or relatives, migration, culture, sport, study (not paid for by an employer), etc.

8.8.3 **UK and Foreign passengers:** a passenger is classified as a UK resident if the UK is the country in which he/she has lived for most of the last twelve months.

8.8.4 **Mode of transport:** this is the mode of surface transport that was used to arrive at the airport - so, in cases where the journey involved the use of more than one mode of transport, it may not be the mode used for the majority of the journey.

8.8.5 **Origins and destinations of terminating passengers:** when analysing the results of the survey, the CAA used the former Regions for Scottish origins and destinations. The interviewer asks where did you start your journey to catch this flight?. In cases where the answer is *not* the person's home, the interviewer asks whether it was a transit stop - i.e. somewhere the traveller chose to break the journey to the airport (e.g. an airport hotel prior to an early morning flight, calling in on or staying with relatives, stopping somewhere to rest or for a meal, etc) - and, if it was a transit stop, asks for the proper origin of the journey.

Sources

8.9 Tables 8.1 to 8.13 are compiled from information supplied by the Civil Aviation Authority (CAA).

8.10 Air punctuality statistics

8.10.1 These statistics are prepared by the CAA with the co-operation of the airport operators and Airport Coordination Ltd (ACL). They are produced for Edinburgh, Glasgow and some other UK airports. The first year for which information is available varies from airport to airport: for example, figures for Edinburgh are only available from April 1996, so it is not possible to provide figures for Edinburgh for 1996 as a whole, or for any earlier years.

8.10.2 The actual times of flights' wheels on/off the runway are derived from flight air transport movement returns made by airports to the CAA. The planned times, which relate to arrival/departure from the stand, and include changes made up to 24 hours beforehand, are supplied by ACL. The CAA also uses assumptions about taxi-ing time - currently these are:

- Edinburgh: arrivals - 5 minutes; departures - 10 minutes;
- Glasgow: arrivals - 5 minutes; departures - 10 minutes

The CAA matches the two sets of data and resolves any obvious mismatches. For example, if an airline appears to operate a series of flights significantly off slot, the CAA will substitute information from published timetables, where these are available, in place of the ACL slot. The statistics are then calculated from the information for those flights for which the data have been matched - so cancelled flights, and flights which are diverted to or from another airport, are excluded from the calculations.

8.11 Survey of passengers

8.11.1 Tables 8.14 to 8.16 were prepared using figures from the Civil Aviation Authority's Passenger Survey reports.

8.11.2 The survey only includes Scottish airports in some years: most recently 2013, and prior to that 2009. Only departing passengers are interviewed, as previous surveys found no significant differences between the characteristics of arriving and departing passengers. The information collected includes: the purpose, origin, destination and type of ticket used for the journey; the age-group, income band, job title and other details needed to determine the socio-economic group of the passenger; the number of people in the party, whether the traveller was accompanied to the airport, and whether the person has flown before; etc.

8.11.3 Each month's sample is weighted, using information on routes and destinations, to gross up the results to the actual level of traffic. The weighting factors therefore vary, but generally, a single survey interview will be weighted in such a way as to represent around 1,000 actual passengers.

8.12 Further Information

8.12.1 Further information on UK civil aviation is available from the Civil Aviation Authority's regular publications, from Mrs D McLean of the CAA Data Unit (tel: 0207 453 6258 or e-mail aduoutput@caaerg.org.uk), and from the CAA Economic Regulation Group's website:

<http://www.caa.co.uk/default.aspx?catid=80&pagetype=90>. For example, the CAA website includes:

- a wide range of tables of monthly and annual statistics about airports, including the kinds of figures which appear in Tables 8.1 to 8.13 and much other information besides;
- detailed tables of punctuality statistics, which give figures separately for each operator on each route, for each month and for each year as a whole, for Edinburgh, Glasgow and some other UK airports;
- detailed reports of the results of the surveys of passengers, which include tables analysing them by purpose of journey, type of service, type of passenger, origin/destination, age-group, income band, socio-economic group, type of business, etc.

8.12 Other data sources

Within Scottish Transport Statistics:

Chapter 3 - Freight includes comparison across freight modes.

Chapter 11 - Personal Travel chapter includes data on visits abroad

Department for Transport produce a number of related publications but most come from the Civil Aviation Authority, see section 5.

Chapter 9 - Water Transport

9. Notes and Definitions

9.1 *The change in the Department for Transport's method of compiling statistics of port traffic with effect from 2000*

9.1.1 A new data collection system for maritime traffic was introduced with effect from 2000. As a result, some data for 2000 onwards are not directly comparable with previous years. The reason for the change was to comply with a new EC Maritime Statistics Directive (Council Directive 95/64/EC on statistical returns in respect of the carriage of goods and passengers by sea).

9.1.2 One of the effects of this change is that some data for 2000, principally coastwise and one-port crude oil traffic, and the inland waters penetration of such traffic, are not directly comparable with information for previous years. However, the overall totals are unaffected.

9.1.3 Previously, all freight information was collected from ports annually. Major ports (generally those with cargo volumes of at least 2 million tonnes a year) were asked for detailed information on weight of traffic in and out of their ports, identifying cargo categories (eg liquid bulks, dry bulks, containers, Roll-on-Roll-off etc), and whether they were foreign, coastwise or one port cargoes. Other (minor) ports were required to provide only total weight of cargo inwards and outwards.

9.1.4 In the new collection system, most of the detailed freight information is collected from shipping lines, operators or shipping agents, which are required to supply detailed returns of their inwards and outwards traffic at each major port for each ship, on each route. Major ports (now defined as those with at least 1 million tonnes of cargo a year) are only required to supply summary information (for use as control totals) while other (minor) ports continue to provide just the total weight of cargo inwards and outwards.

9.1.5 One difference between the data from 2000 and previous years affects *both* coastwise and one-port crude oil estimates from 2000. The new collection arrangements produce much more reliable data on origins and destinations and (when aggregated) coastwise, one-port and foreign traffic summaries. Previously, this information was estimated by ports, with varying degrees of accuracy, particularly for crude oil traffic, which means that origins and destinations for crude oil data in 1999 and earlier years are approximate only, e.g. ports or refinery operators would not necessarily have been able to tell if crude oil was shipped directly from the UK offshore installation, or piped to a land terminal such as Sullom Voe and then shipped out from the land terminal, or if it was imported from a North Sea country or another foreign crude oil producer. As a consequence, it is likely that pre-2000, *coastwise* crude oil estimates were overestimated and *one-port* traffic correspondingly underestimated. This leads to the figures for coastwise traffic lifted in Scotland falling substantially in 2000 compared with 1999.

Definitions

9.2 **Coastwise traffic:** traffic between ports of the United Kingdom, *excluding* traffic between a UK port and either the sea bed or an off-shore installation. It should be noted that Table 9.1(a) covers only freight *lifted* in Scotland, and therefore its figures for coastwise traffic *exclude* cargoes arriving from other UK ports; Table 9.1(b) covers freight *discharged* in Scotland, so includes cargoes arriving from other UK ports (including those elsewhere in Scotland).

9.3 **One port traffic:** traffic between the sea bed or an offshore installation and a UK port. For example, it includes traffic to and from offshore installations, materials shipped for dumping at sea, and dredged sand and gravel etc landed at a port for commercial purposes. The disappearance of the sea dumped traffic is due to the end of sewage dumping at sea. It should be noted that Table 9.1(a) covers only freight *lifted* in Scotland: Table 9.1(b) contains figures for the one port traffic arriving from offshore installations and any incoming sea dredged aggregates. The reason for the increase in one-port oil traffic is due to increased number of crude oil shipments into Sullom Voe and Flotta, particularly from the newer Atlantic fields west of the Shetlands, Schiehallion and Foinaven.

9.4 **Domestic traffic:** in the statistics of traffic through the ports, domestic traffic comprises coastwise traffic plus one port traffic.

9.5 **Foreign traffic:** traffic between ports in the United Kingdom and other countries.

9.6 **Inland waterways:** in general, waterways bounded by the furthest point downstream which is fewer than both 3 km wide at low tide and 5 km wide at high tide (spring). However, this definition is not applied strictly: for example, the definition is relaxed, where necessary, in order *not* to count, as inland waterway traffic, short-haul shipping movements of foreign and coastwise traffic, such as all sea-going traffic to or from major seaboard ports.

9.7 **Inland waters traffic:** subdivides into coastwise, one port and foreign (in each case, that part of the traffic that is carried upstream of the inland waters boundary, excluding short haul inland movements of sea-going traffic) and internal (i.e. not sea-going) traffic. All passenger and passenger vehicle ferry services are *excluded*, such as crossing movements (e.g. Gourock-Dunoon) and coastwise ferries entering sheltered waters (e.g. Loch Ryan, on services between Stranraer or Cairnryan and Northern Ireland).

9.8 **Tonne-kilometres:** where part of a voyage is on an inland waters and part is at sea, account is taken of the inland waterway boundary, so that, in the case of traffic involving inland ports, there is no double-counting of tonne-kilometres between the figures for inland waters and the figures for coastwise, one port and foreign traffic. (This is in contrast to the double-counting of some of the figures for tonnage - for example, if a voyage to another UK port starts on a Scottish inland waterway in

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Scotland, the tonnage would be counted in the figures for both inland waters and coastwise traffic.)

9.9 **Container and roll-on traffic:** includes *all* traffic carried on special container and roll-on vessels, as well as the container traffic carried on conventional services.

9.10 **Main Freight Units** comprise containers, road goods vehicles, unaccompanied trailers, rail wagons, shipborne port to port trailers and shipborne barges only.

9.11 **Ferry Routes within Scotland.** The Scottish Government subsidises the principal operators of the Clyde and Hebrides ferry services (operated by CalMac Ferries Ltd), the Gourock – Dunoon passenger ferry service (operated by Argyll Ferries Ltd) and the Northern Isles (Orkney and Shetland) ferry services (operated by Serco NorthLink Ferries and Shetland Line 1984 Ltd). The companies providing most of the services, CalMac Ferries Ltd and Argyll Ferries Ltd, are part of the David MacBrayne Limited group. The following Local Authorities fund a number of ferry services: Orkney Islands Council, Shetland Islands Council, Highland Council and Argyll & Bute Council. Other services are privately operated.

9.12 **Road Equivalent Tariff (RET):** The Road Equivalent Tariff (RET) scheme involves setting ferry fares on the basis of the cost of travelling an equivalent distance by road - Ministers have announced the Scottish Government's intention to:

- continue RET as a permanent feature on the Western Isles, Coll and Tiree for passengers and cars, including small commercial vehicles and coaches
- replace RET for larger commercial vehicles on the Western Isles, Coll and Tiree, with an enhanced pre-RET discount scheme
- roll out a further RET pilot for passenger and cars including small commercial vehicles and coaches to Colonsay, Islay and Gigha from October 2012
- roll out a further RET pilot for passenger and cars including small commercial vehicles and coaches to Arran from October 2014
- roll out RET to other West Coast and Clyde islands within the term of this Parliament.

RET was introduced in the following routes in 2008: Oban-Castlebay-Lochboisdale; Oban-Coll/Tiree; Oban-Coll/Tiree/Castlebay; Uig-Tarbert-Lochmaddy; and Ullapool-Stornaway. RET was introduced to the following routes in 2012: Kennacraig-Islay, Kennacraig- Islay/Colonsay/Oban; Oban-Colonsay; and Tayinloan-Gigha.

9.13 **Persons assisted:** Coastguard statistics relating to persons given assistance do not include people who are rescued.

Sources

9.14 Most of the data in this section is supplied by the Department for Transport (DfT). The Scottish Government obtains shipping service information from Caledonian MacBrayne, Western Ferries, Northlink Ferries, Orkney Ferries, Shetland Island Council and some of the other operators of shipping and ferry services.

9.15 Waterborne Freight Lifted in Scotland (Table 9.1)

9.15.1 Statistics of waterborne freight (coastwise traffic, one port traffic and inland waters traffic) are compiled by MDS-Transmodal Ltd under contract to the Department for Transport.

9.15.2 A number of data sources are used to determine the level of *coastwise* traffic, including the tonnage of goods reported in the port traffic statistics, (see below) and other surveys, and information about vessel movements. (The vessel movement data include the Northern Ireland, Orkney and Shetland ferry services, but exclude ferries operated by Caledonian MacBrayne and others in and around the Western Isles.) The pattern of coastwise shipping flows, by port and commodity group, is represented by origin and destination matrices, and combined with Admiralty information about the distances between ports. Where appropriate, account is taken of the inland waters boundary, so that there is no double-counting of tonne-kilometres between inland waters and coastwise shipping, in the case of traffic involving inland ports. The method which is used to derive the statistics of coastwise shipping involves some adjustments and reclassifications. As a result, the totals that it produces do not match the port traffic statistics for reasons which are described in the DfT Statistical Bulletin *Waterborne Freight in the United Kingdom*.

9.15.3 The principal sources for the statistics of *one-port* traffic are the port statistics (see section 9.16 below) and information about the distances between the ports and the at sea origins and destinations of the traffic, such as offshore installations and dumping grounds.

9.15.4 The sources of the *inland waterway* statistics are described in section 9.17 below.

9.16 Traffic at Scottish Ports (Tables 9.2 to 9.9)

9.16.1 A new system for collecting detailed port traffic statistics was introduced in 2000 to comply with the requirements of an EC Maritime Statistics Directive. Annual traffic returns are made by shipping lines or their agents and port authorities. This information has been used to derive data on coastal and one-port traffic, and on the inland waters penetration of such traffic. From 1 January 2000, shipping lines or their agents are required to supply detailed statistics of foreign, coastwise and one-port traffic for all cargoes loaded or unloaded at major UK ports. Major ports are now defined as those ports with cargo volumes of at least one million tonnes in the previous year, plus a few smaller ports. The major ports handled 97 per cent of total port traffic in 2000. In addition, port authorities at the major ports are required to supply inwards and outwards control totals for each cargo category. For all other ports, the port authorities are required to supply just two figures: total inwards and total outwards traffic. The lack of detailed statistics for these minor ports means that a degree of approximation is required in the statistics for their traffic. For more details about the new data collection system, see DfT's publication '*Maritime Statistics*'

9.16.2 For 1999 and earlier years, the port traffic statistics were produced, for the most part, from the records made by each port authority of the dues levied on goods passing through the port (supplemented, in some cases, by figures supplied by others).

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9.16.3 From 1995 to 1999, the smaller ports (then defined as, generally, those with fewer than 2 million tonnes of traffic per year) were not required to supply detailed statistics - they provided only two figures, their inwards and outwards traffic. Full details of freight traffic were collected only for those ports with at least 2 million tonnes of cargo in the previous year (and for a few ports with less traffic): these were called the 'major' ports. In the 1995 and 1996 surveys, there were seven 'major' ports in Scotland: Aberdeen, Clyde, Cromarty Firth, Forth, Glensanda (on Loch Linnhe, south-west of Fort William, which exports crushed granite, which is classified in the statistics as crude minerals), Orkney, and Sullom Voe. In the 1997 and 1998 surveys, there were eight: these seven plus Cairnryan, which was counted as a major port because its 1996 return of its inwards and outwards totals had shown that its traffic exceeded 2 million tonnes in 1996. In 1999 the number of 'major' ports increased from eight to nine, since total traffic at Peterhead had exceeded 2 million tonnes in 1998. In 2000, with the introduction of the new definition of a major port (at least 1 million tonnes), Stranraer and Dundee became major ports, bringing the total in Scotland to 11.

9.17 Inland Waterways (Tables 9.10 and 9.11)

9.17.1 Statistics for internal traffic (ie traffic which is wholly within inland waters) are collected directly by DfT's contractor, MDS-Transmodal, from all known operators using personal interviews and postal questionnaires, supplemented by statistics from British Waterways collected primarily for toll levying purposes. Some information is also drawn from Maritime Statistics Directive returns where traffic is classified as internal movements and these traffic movements are then excluded from other traffic estimates to avoid duplication. For traffic moving to and from the open sea, the figures for inland waterway tonne-kilometres are calculated using information about the distances from each inland waterway boundary to the ports and wharves which are upstream of the boundary.

9.18 Shipping Services (Tables 9.12 to 9.17)

9.18.1 Transport Scotland obtains shipping service information from DfT (in respect of the services between Scotland and Northern Ireland, the Rosyth/Zeebrugge and Lerwick/Europe routes). Transport Scotland writes directly to Caledonian MacBrayne, Western Ferries, Northlink Ferries, Orkney Ferries, Shetland Island Council and the other major ferry operators in Scotland for the required information.

9.19 HM Coastguard Statistics (Table 9.18)

9.19.1 Statistics on search and rescue operations are obtained from the Maritime and Coastguard Agency.

9.20 Further Information

9.20.1 UK water transport statistics can be found in the annual DfT publications *Maritime Statistics*, *Waterborne Freight in the UK* and *Transport Statistics Great Britain*.

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9.20.2 Water freight transport statistics, and figures for Scotland/Northern Ireland, the Rosyth/Zeebrugge and Lerwick/Europe routes - Maritime Statistics Branch of DfT (maritime.stats@dft.gsi.gov.uk Tel: 0207 944 4131).

9.20.3 Passengers and vehicles carried on ferry services within Scotland - Andrew Knight, Transport Scotland Transport Statistics Branch (tel: 0131 244 7256).

9.20.4 Punctuality of lifeline ferry services - Transport Scotland Transport Group: Douglas Ellis (CalMac figures) on 0141 272 7431 and Paul Linhart-macaskill (NorthLink figures) on 0131 244 5312.

9.20.5 HM Coastguard statistics - Wendy Wood, Maritime and Coastguard Agency (tel: 023 8032 9416)

9.21 Other data sources

Within Scottish Transport Statistics:

Chapter 3 - Freight,

Chapter 12 – International Comparisons (including water freight)

Other Transport Scotland Publications:

A relatively small number of ferry journeys compared to other modes means little data is available from the SHS.

Department for Transport produce a number of related publications, including:

Port statistics

Non Official Statistics sources

Transport Scotland – Scottish Ferry Services: Ferries Plan (2013-2022)

Ferry operators

Chapter 10 - Finance

10. Notes and Definitions

10.1 Following local government reorganisation on 1 April 1996, the management and maintenance of motorways and other trunk roads was sub-divided into 8 operating units. These applied for the years from 1996-97 to 2000-01 inclusive. New arrangements were introduced with effect from 2001-02 which resulted in 4 Operating Companies maintaining the trunk road network. The introduction of 3rd Generation Contracts for Trunk Road Maintenance in April 2006 and 2007 means there are now 3 Operating Companies. Details of the areas covered by each of these companies can be found in the Annex.

10.2 **Local authority trading services:** Those services of a commercial nature which are, or could be, substantially financed by charges made to recipients of the services.

10.3 In a few cases, negative figures are shown in the net expenditure tables. This is due to income/receipts exceeding the expenditure in a particular category.

10.4 **Retail Prices Index:** Rail fares are 5 parts per 1,000 (or 0.5%) of the Retail Prices Index. Bus and coach fares are also 5 parts per 1,000 (or 0.5%). 'Motoring costs' accounts for 14.6% of the Retail Prices Index. This breaks down into:

- 6.2% Purchase of vehicles (CHBK)
- 2.2% Maintenance of motor vehicles (DOCT)
- 3.8% Petrol and Oil (DOCU)
- 2.4% Tax and Insurance.(DOCV)

Car parking charges are included under 'Maintenance of motor vehicles'.

10.5 **Resource Accounting and Budgeting (also known as Accruals):** Under resource accounting income is shown when it is earned, and costs are shown when they are incurred, the timing of the cash movement is irrelevant. The costs of a capital asset are spread ('depreciated') evenly over its useful life. A capital charge was also made against the value of capital assets until 2009-10.

10.6 **Cash Accounting:** Income is shown when money is received, and costs are shown when payment is made. All receipts and payments made in a financial year are included in the cash accounts for that period. The whole cost of a capital asset is recorded when it is bought.

Sources & Further Information

10.7 The statistics in this chapter come from the following sources:

- Table 10.1(upper half) - *Building a Better Scotland: Spending Proposals 2003-2006* and Scotland's *Budget Documents 2006-07: Budget (Scotland) (No.3) Bill Supporting Document* – roads contact Ross Williamson, Transport Scotland (tel: 0141 272 7932) and rail contact Mary Docherty, Transport Scotland (tel: 0141 272 7455)
- Tables 10.1(lower), 10.3 to 10.5 - from returns by Councils and boards to The Scottish Government - contact Euan Smith (tel:0131 244 7033) or email: lqfstats@scotland.gsi.gov.uk .
- Tables 10.2 - Transport Scotland Trunk Roads Network Management. Contact Ross Williamson, Transport Scotland (tel: 0141 272 7932)
- Tables 10.6 - The Department of Energy and Climate Change. Contact Susan Lomas (tel: 0300 068 5047).
- Table 10.7 - <http://www.ons.gov.uk/ons/rel/cpi/consumer-price-indices/index.html> Table 42. - (tel: 0207 533 5845)
- Table 10.8 - The Office for National Statistics Family Spending publication, <http://www.ons.gov.uk/ons/rel/family-spending/family-spending/family-spending-2011-edition/index.html> table A35 – (tel: 0207 533 5756).

10.8 Other data sources

As well as the data sources listed above, data on spend by UK Government can be found on the HM Treasury web pages.

Chapter 11 - Personal and Cross-Modal Travel

11. Notes and Definitions

11.1 Scottish Household Survey (SHS)

11.1.1 Annual net household income: this is the *net* income (i.e. after taxation and other deductions) which is brought into the household by the highest income householder and/or his/her spouse or partner, if there is one. It includes any contributions to the household finances made by other members of the household (e.g. dig money). In the case of households for which any of the main components of income were not known (for example, because of refusal to answer a question), the SHS contractors imputed the missing amounts, using information that was obtained from other households that appeared similar.

11.1.2 SHS urban / rural classification: the urban / rural classification shown in some tables was developed for use in analysing the results of the SHS. It is based on settlement size, and (for the less-populated areas) the estimated time that would be taken to drive to a settlement with a population of 10,000 or more. Each postcode in Scotland was classed as either urban or non-urban, then clumps of adjacent urban postcodes, which together contained more than a certain total number of addresses, were grouped together to form settlements. Six categories were then defined:

- **Large urban areas** - settlements with populations of 125,000 or more. These are around - but not the same as - Aberdeen, Dundee, Edinburgh and Glasgow. This category may (a) include areas outwith the boundaries of these four cities, in cases where a settlement extends into a neighbouring local authority, and (b) exclude some non-urban areas within the boundaries of these four cities.
- **Other urban areas** - other settlements of population 10,000 or more.
- **Accessible small towns** - settlements of between 3,000 and 9,999 people, which are within 30 minutes' drive of a settlement of 10,000+ people.
- **Remote small towns** - settlements of between 3,000 and 9,999 people, which are *not* within 30 minutes' drive of a settlement of 10,000+ people.
- **Accessible rural areas** - settlements of fewer than 3,000 people, which are within 30 minutes' drive of a settlement of 10,000+ people.
- **Remote rural areas** - settlements of fewer than 3,000 people, which are *not* within 30 minutes' drive of a settlement of 10,000+ people.

11.1.3 Full driving licence and frequency of driving: the SHS asks whether the person currently holds a full driving licence (car or motorcycle). For those who are said to hold a licence, the SHS asks how often the person drives nowadays. The interviewer records whichever of the categories shown in the table is the most appropriate, in the light of the answer. Prior to April 2003, these questions were asked of the head of the household, or his or her spouse/partner, about each adult member of the household. Since April 2003, these questions have been asked of a randomly-selected adult member of the household about themselves. Hence, results for previous years may not be entirely comparable with results for 2003 onwards.

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11.1.4 Frequency of walking: the SHS asks on how many of the last seven days the person made a trip of more than quarter of a mile by foot. The interviewer asks about walking for the purpose of going somewhere, such as work, shopping or to visit friends. The interviewer then asks about walking just for the pleasure of walking or to keep fit or to walk the dog.

11.1.5 Frequency of cycling: the SHS asks on how many of the last seven days the person made a trip of more than quarter of a mile by bicycle. The interviewer asks about cycling for the purpose of going somewhere, such as work, shopping or to visit friends. The interviewer then asks about cycling just for the pleasure or to keep fit.

11.1.6 Sampling variability: as with the NTS, the SHS is a sample survey so results will be subject to sampling variability. More information including a look up table to calculate confidence intervals can be found in the background section of the Transport and Travel in Scotland or SHS: Travel Diary publications.

11.2 International Passenger Survey

11.2.1 The International Passenger Survey is designed to be representative of all people travelling in and out of the UK in terms of: the usage of air, sea and tunnel; UK residents going abroad and foreign residents coming to the UK; different types of traveller (e.g. holiday, business, etc); and travel to and from different parts of the world. However, it is not designed to produce results which are representative for different regions of residence within the UK. While the survey's procedures should not lead to any major bias in the estimates for Scottish residents, the sample-based nature of the survey may result in their being over-represented in the survey in some years, and under-represented in other years.

11.2.2 Visits abroad: The figures include all tourists who make trips which last no more than a year, those travelling to Eire have been included in the IPS since 1999.

11.2.3 Miscellaneous and other purposes: includes visits for study, to attend sporting events, for shopping, health, religious or other purposes, and multi-purpose visits for which no one purpose predominates.

11.2.4 Area visited: in cases where two or more countries are visited, a person is counted on the basis of the one country in which he or she stayed for the longest time.

11.3 Inter-zonal trips made on an average weekday - the Transport Model for Scotland (TMfS)

11.3.1 These are the estimated annual average numbers of trips made per weekday between or within the areas shown, using the specified modes of transport (for example, they do *not* include trips made by foot, by bicycle, or by motorcycle). The figures represent the estimated total flows over the whole 24 hours of an average weekday. A return journey, from A to B and back again, on the same day, would be counted as two trips: one from A to B and one from B to A.

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11.3.2 The figures are estimates of the numbers of *inter-zonal trips* - i.e. trips which cross the boundary of at least one of the zones used in the Transport Model for Scotland (TMfS). The zones used in the model are constructed by amalgamating Population Census output areas. The model's zones vary in size from area to area, depending on factors such as the size and density of the population and the nature of the transport network that the model must represent. As a result, there is no simple definition of a zone. Some Council areas have many zones (e.g. there are 180 in Edinburgh, and 239 in Glasgow); others have only a few (e.g. there are 10 in East Lothian, 11 in Midlothian and 21 in West Lothian). It follows that a trip of a particular length will be more likely to be counted as an inter-zonal trip if it is in (say) Edinburgh than if it is in (say) East Lothian.

11.3.4 Person trips relate to the number of people travelling by the specified modes of transport, and **vehicle trips** to the numbers of vehicles going between the specified areas. Thus, for example, if a car containing two people goes from A to B, it is counted as two person trips and one vehicle trip.

11.3.5 The areas identified in the table are sectors within TMfS. These correspond broadly (but not necessarily exactly) to the Strategic Development Planning areas or current Councils. Some of these sectors do not contain many TMfS zones - for example, the Borders sector contains 11 zones, and the Perth & Kinross sector contains 23 zones. All else being equal, the larger the zones are within a sector, the smaller the proportion of the trips within the sector that will be treated as inter-zonal trips - and, hence, the smaller the proportion that will be represented within the model.

11.3.6 Elsewhere in Scotland refers to those parts of Scotland not identified in other sectors: broadly, Argyll & Bute, Eilean Siar, Highland, Moray, Orkney Islands, and Shetland Islands.

11.3.7 The estimated average number of trips originating in an area usually differs from the estimated number with a destination in that area - for example, compare the estimates of 111,000 person trips with a destination in Dumfries & Galloway and 112,000 trips originating in Dumfries and Galloway. This is because the estimation process (which is described in section 11.8) is mainly based upon survey data covering the 7 a.m. to 7 p.m. period, and cannot take full account of trips which involve returning later in the evening. Therefore, the TMfS-based estimates indicate broadly the levels of flows within Scotland, but do not provide precise measures.

11.3.8 The model's estimates of the number of cross-border trips by bus and train may not be particularly reliable, because of the way that they are produced.

Sources

11.4 Scottish Household Survey - Frequencies of driving, walking and cycling; and usual main methods of travel to school and travel to work (Tables 11.10 to 11.13 and 11.17 to 11.19 and 11.21 to 11.23)

11.4.1 Information on these and some other transport-related topics is collected by the **Scottish Household Survey**, which started in February 1999. The SHS collects information on a wide range of topics, to allow exploration of the relationships between different sets of variables. Interviewing takes place throughout the year.

11.4.2 The SHS is a survey of private households. For the purposes of the survey, a household is defined as one person or a group of people living in accommodation as their only or main residence and *either* sharing at least one meal a day *or* sharing the living accommodation. A student's term-time address is taken as his/her main residence, in order that he/she is counted where he/she lives for most of the year. The sample was drawn from the Small User file of the Postcode Address File (PAF) which does not include many nurses' homes, student halls of residence, hostels for the homeless, other communal establishments, mobile homes, and sites for travelling people.

11.4.3 Each year, SHS interviews are conducted with a randomly-chosen sample of (on average) over 15,000 households across Scotland. Within each Council area, the sample is stratified using a geo-demographic indicator in order that it will be representative across that Council's area. A higher sampling fraction is used in the areas of the Councils with the smallest populations, in order that (in each two-year period) there is a minimum of 550 household interviews per Council. The results are then reweighted so that they will be representative of Scotland as a whole.

11.4.4 The SHS interview is conducted in two parts. The first part is with the highest income householder, or his/her spouse/partner (if any), who answers questions about the household and its members. This provides household members' age and gender, and the annual net household income. Prior to April 2003, it included questions about the type of driving licence (if any) held by each adult member of the household, and the frequency of driving. Main method of travel to school was also collected (for one randomly-chosen schoolchild member of the household). As the information is collected for one schoolchild per household, proportionately greater weight is given to cases with greater numbers of schoolchildren in the household.

11.4.5 The second part of the SHS aims to obtain results which are representative of Scottish adults by interviewing a randomly-chosen adult (aged 16+) member of the household (who may happen to be the person who answered the questions in the first part of the interview - for example, this is always the case for single pensioner households). This part has fewer respondents as not all randomly-chosen adults are available. Information on the frequency of walking, place of work, usual method of travel to work etc are collected. Questions are also asked about journeys made on the previous day (the Travel Diary). These include the start and end times of each stage of the journey, the mode of transport used, the purpose of the journey, and

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experiences of congestion. As one adult is interviewed per household, proportionately greater weight is given to cases with greater numbers of adults in the household. For the Travel Diary questions, further weighting is given according to the day of the week and the economic status of the adult.

11.4.6 Although the SHS's sample is chosen at random, respondents will not necessarily be a representative cross-section of the people of Scotland. E.g. the sample could include disproportionate numbers of certain types of people, in which case the survey's results would be affected. In general, the smaller the sample from which an estimate is produced, the greater the likelihood that the estimate could be misleading. SHS publications (see sections 11.10 and 11.11) provide examples of the 95% confidence limits for estimates of a range of percentages calculated from sub-samples of a range of sizes.

11.4.7 The above information relates only to sampling variability. The survey's results could also be affected by non-contact / non-response bias: the characteristics of the (roughly) one-third of households who should have been in the survey but who could not be contacted, or who refused to take part, could differ markedly from those of the people who were interviewed. If that is the case, the SHS's results will not be representative of the whole population. Without knowing the true values (for the population as a whole) of some quantities, one cannot be sure about the extent of any such biases in the SHS. However, comparison of SHS results with information from other sources suggests that they are broadly representative of the overall Scottish population, and therefore that any non-contact or non-response biases are not large overall. Of course, such biases could be more significant for certain sub-groups of the population. In addition, because it is a survey of private households, the SHS does not cover some sections of the population - for example, it does not collect information about many students in halls of residence. The SHS technical reports (see section 11.11) provide more information on these matters.

11.5 Travel to work (Tables 11.14 to 11.16)

11.5.1 The information about the usual means of travel to work and the time taken to travel to the usual place of work shown in tables 11.14 and 11.15 is obtained from the **Labour Force Survey** using questions which have been included in those survey interviews which have been conducted in the Autumn each year since 1992. The tables include the self-employed, those on Government training schemes and unpaid family workers as well as employees, but exclude those working at home, and those whose workplace or mode of transport to work was not known. The LFS is a household survey covering 60,000 households each quarter in GB, and about 6,000 households per quarter in Scotland.

11.5.2

Scotland's Census took place on Sunday 27 March 2011 with the chief purpose of providing an accurate population count as well as collecting data on key characteristics of individuals in Scotland, including their travel to work. Some individuals are missed in the Census, and this under-counting does not usually occur uniformly across all geographical areas or across other sub-groups (for example, by age and sex) of the population.

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11.5.3 To fill the gap, the National Records for Scotland (NRS) implemented a coverage assessment process to estimate the population that was missed, also identifying and adjusting for the people who were counted more than once or who were counted in the wrong place. Carrying out this work allowed a census estimate of the entire population to be obtained.

11.5.4 The methods were largely based on those developed by the Office for National Statistics (ONS). The ONS systems were also implemented although adapted as necessary to cope with Scotland specific data. ONS have produced a full suite of methodology papers detailing the statistical theory and practical application of the methodology. They can be found here: <http://www.ons.gov.uk/ons/guide-method/census/2011/census-data/2011-census-user-guide/quality-and-methods/methods/coverage-assessment-and-adjustment-methods/index.html>

11.5.6 It was not always practical or appropriate to replicate exactly what was done for the rest of the UK due to differences in fieldwork processes, data capture and processing and also the availability of comparator data sources. The ONS documentation should be read bearing in mind there were small differences between Scotland and the rest of the UK.

11.5.7 Table 11.16 provides some **Census** of Population information about travel to work. Information about travel to work has been collected in population censuses since 1966. There have been some changes in the categories used – for example, the 1966 Census had a category described as none which was included in the 1971 Census under its On foot and none category; the 1971 Census had a category described as Public Transport which was separate from the categories for Train and Bus; and the 1966 and 1971 Census travel to work figures did not identify separately those who were working at home, so they are included in the figures for those years. However, the effect of such differences on the statistics will be small compared to the scale of the changes in the shares of the main modes of travel .

11.5.8 Information about travel to work is also collected by the SHS (see section 11.4 above), which is the source for tables 11.17 and 11.18.

11.6 Hands Up Scotland Survey (Table 11.23a)

11.6.1 Established in 2008, the Hands Up Scotland Survey is the largest national dataset to look at travel to school across Scotland. The project is funded by Transport Scotland and is a joint survey between Sustrans and Scottish local authorities.

11.6.2 Schools across Scotland complete the survey by asking their pupils 'How do you normally travel to school?' The responses are then sent to local authority officers who collate the data and return it to Sustrans' Research and Monitoring Unit for overall collation, analysis and reporting.

11.6.3 A Parliamentary Order was passed designating Sustrans as Official Statistics Providers in the production of Hands Up Scotland on 1st June 2012. Sustrans is currently looking to acquire National Statistics status for the survey.

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11.6.4 The Hands Up Scotland 2015 survey took place between 7th and 11th September 2015 – with results due to be published in May 2016.

11.7 International Passenger Survey - Scottish residents' visits abroad (Tables 11.24 to 11.26)

11.7.1 This information is collected by the International Passenger Survey (IPS), from a sample of passengers returning to the UK by the principal air, sea and tunnel routes (excluding some routes which are too small in volume or which are too expensive to be covered). Travellers passing through passport control during the day are randomly selected for interview (interviewing is suspended at night). A weighting procedure takes account of the non-sampled routes and time periods. For example, the figures for certain airports are uplifted to take account of the passenger numbers at the other UK airports which are not covered by the survey. Prior to 2005, Edinburgh and Glasgow were the only Scottish airports at which interviewing took place. Prestwick airport was added to the survey in 2005 and Aberdeen has been collected since 2009. These are uplifted to take account of the non sampled airports. Rosyth was included in quarters 2, 3 and 4 of 2007 and quarters 2 & 3 of 2008.

11.7.2 The figures in the tables are based on interviews with Scottish residents who returned to the UK. This is the Office for National Statistics' standard practice for producing such estimates, as it can then also analyse other information that is collected in the interviews (such as the amount that people say that they spent while on holiday).

11.7.3 The survey covers both adults and children, and is voluntary - for example, the response rate was 80% in 2003, and the results reported in these tables for that year are based upon interviews with about 2,000 Scottish residents.

11.7.4 The IPS data used in the tables are adjusted to take account of the fact that not all people respond to questions regarding area of residence. This means that tables produced by area of residence will not always exactly match other published data regarding trips abroad by UK residents.

11.8 Transport Model for Scotland - Trips made on an average weekday (Table 11.27)

11.8.1 These figures were provided using the **Transport Model for Scotland 2012**. This model covers the Scottish Strategic Mainland Transport Network, and also includes representation of travel patterns between Scotland and England.

11.8.2 The area covered by the model is divided into 720 zones. The model uses planning data for each zone (e.g. population, number of households, car ownership, employment, number of employed residents) to calculate the number of trips that would be expected to be generated. It also uses information collected by traffic counts, roadside interviews and surveys of passengers on public transport. The

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information collected and used to develop the model started in 2002 and continued through to 2012, which is the base year. TMfS also uses information from other sources, such as 'donor' models (such as the Strathclyde Integrated Transport Model), the 2001 Census of Population and the Scottish Household Survey (which has been conducted continuously since February 1999). Data collected in other years were factored to represent the base year. The quality and coverage of the data that are held within the TMfS vary between different areas and different parts of the transport network. This is the result of the historical interest in the movement of people and goods between various points on the transport network, and the resultant availability of data. However, the base information used to develop TMfS12 is more robust and comprehensive than that used in former versions of the national model.

11.8.3 The pattern of travel movements is held in a series of trip matrices covering the morning peak period, the evening peak period and the intervening off-peak period. Taken together, these matrices can be combined to provide a matrix reflecting trip movements during the period 7 a.m. to 7 p.m. on a typical weekday. Daily, monthly and annual averages can then be derived by grossing-up these figures using time series data sources. The resulting expected flows around the transport network are then calibrated and validated for each modelled time period using information about the actual numbers of trips that were made on particular routes.

11.8.4 Applying the calibration and validation process to the expected numbers of generated trips calculated by the model produces estimates of the numbers of trips which are consistent with the observed traffic counts and the results of surveys and interviews. The estimated numbers of trips for the areas shown in the table were then produced by aggregating the estimated numbers of trips for the relevant zones.

11.8.5 The model's estimates of the numbers of people travelling by bus and train across the border with England are less reliable because it uses its standard set of public transport factors to gross up the cross-border passenger numbers obtained (e.g.) from surveys and passenger counts which were carried out at certain times on certain days. Because local bus services account for the vast majority of public transport in Scotland, the model's standard public transport grossing-up factors mainly reflect the pattern of local bus passenger usage - so applying these factors to the data for cross-border bus and train traffic may not take proper account of the different patterns of such traffic.

11.9 Passenger journeys made under concessionary fare schemes (Table 11.29)

11.9.1 The figures for the Strathclyde Concessionary Travel scheme were supplied by Strathclyde Partnership for Transport (SPT); the figures for other schemes were collected from Transport Scotland (national schemes) and from local authorities using the Local Financial Returns form LFR5.

11.9.2 The National Concessionary Travel bus scheme was introduced on 1st April 2006, which allows elderly and disabled free travel on all scheduled bus services in Scotland. This is administered by Transport Scotland and replaced any local bus schemes. The Young People's Concessionary bus Travel Scheme started in 8

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January 2007, aimed at 16 to 18 year olds (inclusive) and full time volunteers (aged under 26).

11.9.3 Local authorities were asked to provide numbers of passenger journeys on the same basis as the expenditure on concessionary fares that they report in the LFR5. This relates to concessionary fares for elderly people, for people with visual or other disabilities, and for children (but exclude school transport).

11.9.4 SPT was able to provide passenger numbers from its records for the Strathclyde Concessionary Travel scheme for several years; figures for the passenger numbers for other schemes are only available for 2000-01 onwards because that was the first year for which that information was requested from local authorities using the LFR forms.

11.10 Further Information

11.10.1 Labour Force Survey - ifs.dataservice@ons.gsi.gov.uk

11.10.2 There are a number of transport specific publications on the Scottish Household Survey available at:

www.scotland.gov.uk/Topics/Statistics/Browse/Transport-Travel/Publications

11.10.3 SHS publications include *Scotland's People*, a detailed Annual Report and can be accessed at: www.scotland.gov.uk/Topics/Statistics/16002/Publications General Enquiries regarding the Scottish Household Survey should be directed to the SHS Project Manager: Nic Krzyzanowski (tel: 0131 244 0824). Enquiries relating to SHS Transport and Travel data should be directed to Transtat@transportscotland.gsi.gov.uk.

11.10.4 Enquiries regarding the International Passenger Survey should be directed to Luke Thwaites of the Office for National Statistics (tel: 01633 45 6032).

11.10.5 Further information or guidance on the detailed application of the Transport Model for Scotland can be obtained from Alison Irvine, Transport Scotland Strategy and Investment (tel: 0141 272 7571). See also <https://www.transport.gov.scot/our-approach/industry-guidance/land-use-and-transport-integrations-in-scotland-latis/#>

11.10.6 Further information about the numbers of passenger journeys made under concessionary fare schemes can be obtained from Maureen Fisher in Transport Scotland (tel: 0131 272 7533).

11.10.7 Further information about the number of telephone calls and Web site hits for Traveline Scotland can be obtained from Claire Cameron, Travel Information Manager, Trunk Roads and Network Management, Transport Scotland, (tel: 0141 272 7425).

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11.11 Other data sources

Official Statistics data sources

Within Scottish Transport Statistics:

Chapter 1 - Road vehicles,

Chapter 5 – Road Traffic (including congestion)

Chapter 12 - International Travel (includes modal share comparisons)

Other Transport Scotland Publications:

Transport and Travel in Scotland – includes more detailed analysis of SHS data, in particular:

Table 11 – car sharing

Table 16 and 17 – Reasons for choice of travel to school mode

Table 18a – bicycle access

Table 21 – Park and ride

Table 28 – Frequency of bus and train use

Tables 31 and 32 – Concessionary pass use

Scottish Household Survey Travel Diary – includes detailed tables using the Travel Diary dataset, in particular:

Table 2 – journeys by mode of transport

Table 2a&b – journey and stage distance by mode of transport

Table 3 – Purpose of travel

Table 4a & 5a – mode of transport by journey distance

SHS Local Authority Results – provides breakdowns of SHS data by Local Authority, Regional Transport Partnership and Urban Rural Classification. In particular:

Table 1& 2 - Travel to work and school by mode of transport

Table 11 - Frequency of bus and train use

Table 12 – Convenience of public transport

Table 15 – Concessionary pass use

Table 16 – journeys by mode of transport

Table 17 – purpose of travel.

Non Official Statistics sources

Transport Scotland

On the Move: Car, rail and bus travel trends in Scotland (Charilaos Latinopoulos, Scott Le Vine, Peter Jones & John Polak)

Non Transport Scotland data sources:

On The Move (Scott Le Vine and Peter Jones), provides analysis of NTS data on personal travel in GB

Eurostat statistics on modal share (See chapter 12 for further detail)

Chapter 12 – International Comparisons

12. Notes & Sources: EU countries

12.1 Most EU country statistics originate from the 2018 *EU Energy and Transport in Figures*, produced annually by the EC Directorate General for Energy and Transport with the assistance of Eurostat. The publication contains a range of detailed statistics and only a summary are presented in this chapter. Email tif@cec.eu.int or available at https://ec.europa.eu/transport/facts-fundings/statistics/pocketbook-2018_en

Notes & Sources: Scotland, UK & GB

12.2 In general, notes on and definitions of the figures for Scotland (and, by implication, the figures on the same basis for the UK or GB as a whole) appear in the relevant chapters. Therefore, this section covers only matters which are *not* dealt with there.

12.3 *Population, area and population density:*

12.3.1 The population figures for GB and UK are mid-2017 estimates (NB: the EU publication's figures are for 1 January 2017) based on Office for National Statistics release (published in June 2017), available at <https://bit.ly/2KXOxkd> Scottish figures are taken directly from the General Registry Office of Scotland.

12.3.2 Areas figures relate to 2008 (no year is specified for the EU publication's figures) taken from Table 1.1 of the 2010 edition of the *Annual Abstract of Statistics*. Population densities were calculated by the Scottish Government using these area estimates.

12.4 **Motorways:** the figures for Scotland and for GB are for 2016 (the same year as most of the EU figures). They were taken from Table RDL0201 of *DfT's road lengths statistics publication*. The DfT's figure for Scotland was used in this table. As explained in paragraph 5.5 below the methodology used by DfT means that the figure for the length of motorways in Scotland (excluding slip roads) differs slightly from Table 12.5.1).

12.5 *All roads:*

12.5.1 The figures for Scotland and for GB relate to 2016 (the same year as most of the EU figures), taken from Table RDL0201 of *DfT's road lengths statistics*. The DfT's figure for Scotland was used in this table which differs from the road length figure in Table 4.1, due to the DfT using a Geographical Information System (GIS) and Ordnance Survey data to produce estimates. Whereas (as explained in the notes to Chapter 4), most of the figures in Table 4.1 are produced from annual returns made by local authorities.

NOTES & DEFINITIONS - INTERNATIONAL COMPARISONS

12.5.2 Some countries (Bulgaria, Denmark, Germany, Italy, Luxembourg, Portugal and Romania) did not have information for 'other roads' in the latest EU publication. Therefore the total road length figure for all countries excludes 'other roads'. In the case of Scotland and the UK, 'Unclassified roads' have been excluded.

12.6 **Railways:** the figures are for the route length at the end of the financial year 2015/16 (the EU figures are for 2016). The figure for Scotland is from Table 7.14 of this publication; the GB figure was taken from Table TSGB0601 of *TSGB 2017*.

12.7 **Passenger cars:** passenger cars figures for Scotland and GB are for 2016 (most EU figures are for 2016). They are taken from Table TSGB0903 of DfT's *Transport Statistics Great Britain 2017 edition*.

12.8 **Powered two wheelers:** the figures for Scotland and GB are for 2016 (the same year as most of the EU figures). They are taken from Table TSGB0903 of DfT's *Transport Statistics Great Britain 2017 edition*, which includes figures for motorcycles, scooters and mopeds and based on numbers of vehicles licensed at 31st December. The EU publication's figure (for the UK) is lower than the DfT figure for GB due to different methodologies. EU figures are based on national sources and definitions may vary.

12.9 **Goods vehicles:** the figures for Scotland and GB are for 2017 (the same year as most of the EU figures). The Scottish figure is taken from Table 1.2 of this publication, and the GB figure is taken from Table TSGB0903 of DfT's *Transport Statistics Great Britain 2017 edition*. They are the totals of the figures for the body types light goods and goods (the latter being heavy goods vehicles). The result of using the body type figures is slightly different from that which would have been obtained had taxation group figures been used.

12.10 **New registrations of passenger cars:** the GB and Scotland figures are for new registrations of all vehicles and are for 2016 (the same year as most of the EU figures). They are taken from Table VEH0152 of DfT's *Vehicle Licensing Statistics*.

12.11 **Passenger transport - distance travelled and modal shares**

12.11.1 The figures for Scotland and GB are for the two year period 2011/2012 (the EU figures are for 2016). Following the increase in its sample size with effect from 2002, the National Travel Survey can provide some figures for a single year for Scotland, but figures for the two year period should be less susceptible to sampling fluctuations. The figures for Scotland are taken from STS 2013 Table 11.2 and converted from miles into kilometres. The GB figures for 2011/2012 were calculated by simply averaging the figures from 2011 and 2012 for each relevant mode of transport shown in Table NTS0305 of DfT's *National Travel Survey: 2012* bulletin, and converting the result from miles into kilometres.

12.11.2 The NTS figures relate to the mode of travel, *not* to the main mode that is used in some other analyses of NTS figures and use detailed mode breakdowns of NTS results as opposed to aggregate groupings. Also passenger cars category consists of car only - driver, car only - passenger and taxi / minicab; the buses and coaches category covers private hire bus, bus in London, local bus and non-local

NOTES & DEFINITIONS - INTERNATIONAL COMPARISONS

bus; and the tram / metro category relates only to the London Underground (the Glasgow Underground is not identified in the results of the NTS).

12.11.3 The NTS average for the total distance travelled per person in GB (covering all modes of transport) is 6,826 miles, or 10,985 kilometres in 2011/12. For the modes of transport shown in the table (which excludes, for example, air and ferry) the NTS average is 10,556 kilometres. This difference between the UK and GB figures arises because the two sets of figures are on different bases:

- the NTS figures relate only to *personal* travel within GB, and are produced from the results of a survey of households across GB;
- the EU publication's figures have been derived by dividing estimates of the total volume of travel (passenger-kilometres) within the country by the total population of the country.

The kinds of travel which would be counted using the latter approach (but *not* by the NTS) include

- travel within GB by foreign tourists and other non-residents;
- travel for business purposes (e.g. to and from meetings);
- and, possibly, some travel in the course of their work by the likes of lorry drivers, postmen and bus drivers.

Therefore, estimates produced using the latter approach will be greater than the NTS estimates, which cover only *personal* travel by *residents*.

12.11.4 There are no official estimates of the total passenger-kilometres travelled within Scotland: the only Scottish estimates of the average distance travelled per head of population are NTS ones, which cover only *personal* travel by *residents*.

12.11.5 Although the two methods produce markedly different average distances, they produce quite similar modal shares - e.g. the modal share for passenger cars is: NTS – 82.3%; shown in *EU Energy and Transport in Figures* – 85.6% (NB: in both cases, the modal shares are calculated excluding powered two-wheelers, walking and cycling, for consistency with the figures in the relevant table of the EU publication). Therefore, the modal shares for Scotland, calculated from the NTS results, should be comparable to the modal shares for the EU countries.

12.12 International air passengers (traffic between EU countries): the figures for Scotland and the UK are both for 2016 (the same year as the EU figures). The Scottish figure is taken from the Total EU countries in Table 8.3(a) of this publication. It is the number of passengers to and from the EU-28 countries for the main Scottish international airports (Aberdeen, Edinburgh, Glasgow and Glasgow Prestwick). The table shows figures for 21 of the EU member states: these are the countries for which the international air passenger route analysis table on the Civil Aviation Authority's Web site (from which the figures for Table 8.3(a) were obtained) shows passengers to/from Scottish airports (for example, the CAA table does *not* show any passengers between, say, Luxembourg and any Scottish airport in 2005). These figures will underestimate slightly the total number of international passengers between Scotland and EU countries because they do *not* include (a) passengers on charter only routes in cases where fewer than 5,000 passengers were carried between an airport and a particular country, nor (b) any passengers to and from EU countries at other airports in Scotland. The UK figure is taken from Table AVI0105 of DfT's Aviation Statistics publication, using the figures for EU-28.

NOTES & DEFINITIONS - INTERNATIONAL COMPARISONS

12.13 Road fatalities: the figures for Scotland and GB are both for 2016 (as are most of the EU figures). The Scottish figure is taken from Table 2 of *Reported Road Casualties Scotland 2016*, and the GB figure is taken from Table RAS30003 of *Reported Road Casualties Great Britain 2016*.

12.14 Freight transport - modal shares

12.14.1 Both Scotland and GB relate to 2016 (as do the EU figures). The Scottish figures are derived from the tonne-kilometre figures for each mode of transport which appear in Table H2(b) of this publication. The GB figures are derived from the tonne-kilometre figures for each mode of transport which appear in Table TSGB0403 of *TSGB 2016*.

12.14.2 The figures for Scotland are based on the tonnage of goods lifted in Scotland and the distance on which they are carried on that journey, be it within Scotland or from Scotland to (say) England. For example, the tonne-kilometres for goods taken from Edinburgh to London would be calculated using the full distance between Edinburgh and London (over 660 kilometres) *not* just the distance between Edinburgh and the border (under 160 kilometres). Therefore, the figures do *not* represent the modal shares for freight transport *within* Scotland: they include tonne-kilometres outwith Scotland on journeys which started in Scotland, and they exclude tonne-kilometres within Scotland on journeys which started elsewhere.

12.15 Other data sources

Eurostat collect a range of Transport data for European countries and publish it on their website. It can be accessed at:

<http://ec.europa.eu/eurostat/web/main>

United Nations Economic Commission for Europe also publish European Transport data:

<http://w3.unece.org/pxweb/>

World Health Organisation collect data on road accidents from around the world and publish a comparison:

http://www.who.int/violence_injury_prevention/road_safety_status/2013/en/index.html

Chapter 13 - Environment and Emissions

13. Notes and Definitions

13.1 Pollutants

13.1.1 The atmospheric pollutants listed in Table 13.1 have been selected because they are considered to be a threat to human health, and transport is understood to be a significant contributor to emissions of these pollutants. The Air Quality Strategy for England, Scotland, Wales and Northern Ireland contains air quality objectives for nine pollutants (benzene, carbon monoxide, lead, nitrogen dioxide, ozone, particulates (PM₁₀ and PM_{2.5}), sulphur dioxide, 1,3-butadiene and polycyclic aromatic hydrocarbons (PAHs)). The objectives are policy targets expressed as a maximum ambient concentration to be achieved, either without exception or with a permitted number of exceedences, within a specified timescale. The table below sets out the agreed air quality objectives (for pollutants which transport is understood to contribute to significantly). PM₁₀ are small particulates less than 10 microns in diameter.

13.1 AIR QUALITY OBJECTIVES FOR SCOTLAND

Pollutant	Objective		Date to be achieved by
	Concentration	Measured as:	
Benzene	3.25µg/m ³	running annual mean	31 Dec 2010
Nitrogen dioxide ²	40µg/m ³	annual mean	31 Dec 2005
	200µg/m ³	hourly mean not to be exceeded more than 18 times a year	31 Dec 2005
Particles (PM ₁₀) ³	40µg/m ³	annual mean	31 Dec 2004
	50µg/m ³	24-hour mean not to be exceeded more than 35 times a year	31 Dec 2004
	18µg/m ³	annual mean	31 Dec 2010
	50µg/m ³	24-hour mean not to be exceeded more than 7 times a year	31 Dec 2010
Particles (PM _{2.5})	10µg/m ³	annual mean	2020
Ozone	100µg/m ³	daily maximum (measured as an 8 hour running mean) not to be exceeded more than 10 times a year	31 Dec 2005

NOTES & DEFINITIONS - ENVIRONMENT AND EMISSIONS

13.2 Emissions.

13.2.1 **CAT** is the Carbon Account for Transport. The Carbon Account for Transport (CAT) fulfils a requirement of the National Transport Strategy to develop a carbon balance sheet for transport. It is published on an annual cycle and contains:

- Scotland's annual transport emissions from 1990 to 2017;
- emissions efficiency estimates across different modes of transport;
- emissions efficiency of road vehicles registered in Scotland;
- comparison of Scotland's emissions to those of the UK as a whole;
- key leading transport emissions indicators.

13.2.2 The Climate Change (Scotland) Act 2009 requires Scottish Ministers to lay a report in Parliament setting out their proposals and policies for meeting annual emissions reduction targets. The Climate Change Plan, published February 2018, is the Scottish Government's third report on proposals and policies for meeting its climate change targets. It sets out how Scotland can deliver its target of 66% emissions reductions, relative to the baseline, for the period 2018–2032. In April 2019 the First Minister acknowledged that Scotland – like the rest of the world – faces a Climate Emergency and confirmed that the Scottish Government would accept the recommendations of the UK Committee on Climate Change to set a target of net zero greenhouse gas emissions by 2045 with interim reduction targets of 70% by 2030 and 90% by 2040. The Scottish Government has committed to updating the Climate Change Plan within six months of the Climate Change Bill receiving Royal Assent so that it reflects the more ambitious targets being established.

13.2.3 While the UK emissions return to the UN does not include emissions from international aviation and shipping (IAS), the Climate Change Scotland Act 2009 explicitly includes this category of emissions in its calculation of total Scottish emissions and the required reduction in emissions to fulfil the terms of the Act. International aviation and shipping emissions are shown in the national emissions Inventory as an additional, outside scope, item.

13.2.4 **Ultra Low Emission Vehicles (ULEV)** - An ULEV emits extremely low levels of carbon dioxide (CO₂) compared to conventional vehicles fuelled by petrol/diesel. They typically also have much lower or virtually nil emissions of air pollutants and lower noise levels. Since 2009, the Office for Low Emission Vehicles has considered ULEVs as new cars or vans that emit less than 75 grams of CO₂ from the tailpipe per kilometre driven, based on the current European type approval test.

13.2.5 **Plug in Grant** - Since January 2011, UK motorists purchasing a qualifying ultra-low emission car have been able to receive a grant of 25% towards the cost of the vehicle, up to a maximum of £5,000. The Plug-in Car Grant has been designed to help make the whole-life costs of a qualifying car more comparable with petrol or diesel equivalents. The terms of this scheme were modified in early 2016¹

Sources

13.3 Pollutants and air quality objectives

¹ [Revised terms of Plug-in-Grant scheme](#)

13.3 *Pollutants and air quality objectives*

13.3.1 The information on air pollutant emissions is taken from the publication *Air Quality Pollutant Inventories for England, Scotland, Wales and Northern Ireland: 1990 – 2015*, published on the National Atmospheric Emissions Inventory website. Emissions estimates are modelled and revisions may be made to the whole time series each year. Separate information on emissions resulting from the use of petrol and diesel in passenger cars and light goods vehicles is provided for the first time.

13.3.2 A sensitive parameter in the emission calculations for petrol cars is the assumption made about the proportion of the fleet with catalyst systems that have failed, for example due to mechanical damage or failure of the lambda sensor. Following discussions with DfT, it is assumed that the failure rate is 5% per annum for all Euro standards, and that up to 2008 only 20% of failed catalysts were rectified properly, but those that were rectified were done so within a year of failing. The revisions are based on evidence on fitting of replacement catalysts. According to DfT there is evidence that a high proportion of replacement catalysts were not Type Approved and do not restore the emission performance of the vehicle to its original level (DfT 2009). This is being addressed through the Regulations Controlling Sale and Installation of Replacement Catalytic Converters and Particle Filters for Light Duty Vehicles (LDVs) for Euro 3 (or above) LDVs after June 2009. Therefore a change in the repair rate is taken into account for Euro 3 and above petrol LDVs from mid-2009, assuming all failed vehicles are rectified properly.

13.3.3 The methodology for estimating emissions from shipping was revised in the *Air Quality Pollutant Inventories for England, Scotland, Wales and Northern Ireland: 1990-2016* (http://naei.beis.gov.uk/reports/reports?report_id=970). Full details of the revision are given in the report. As a result of the revision there has been a large apparent increase in emissions from shipping compared with the previous inventory which particularly affects the NO_x figures. The percentage of NO_x emissions allocated to transport in 2015 increased from 45% in the 2017 inventory to 53% in the 2018 inventory.

13.3.4 In the latest inventory *Air Quality Pollutant Inventories for England, Scotland, Wales and Northern Ireland: 1990-2017* (https://naei.beis.gov.uk/reports/reports?report_id=996) there was a major revision to the emission factor for gas oil combustion on locomotive trains for all years after 1998. Additional revisions are due to minor refinements to the shipping methodology which now produces uses pollutant-specific techniques to disaggregate UK emissions, but this is minor compared to changes to the emissions for Railways.

13.3.5 Detailed information on all sites in the Scotland Air Quality Database are available from the data section of the “Air Quality in Scotland” website (<http://www.scottishairquality.co.uk>). The air quality objectives are taken from *The Air Quality Strategy for England, Scotland, Wales and Northern Ireland: Addendum*. Summary statistics for all sites are available from the “Scottish Environment Statistics Online” website (<http://www.gov.scot/seso/Datasets.aspx?TID=2>). Please note that this website is no longer being updated as of 30 September 2017.

13.4 *Emissions of greenhouse gases from transport allocated to Scotland*

NOTES & DEFINITIONS - ENVIRONMENT AND EMISSIONS

13.4.1 The majority of the Scottish emissions tables shown here are based on emissions estimates reported in *Greenhouse Gas Inventories for England, Scotland, Wales & Northern Ireland 1990-2017*, compiled by Aether/Ricardo-AEA under contract to the Department for Business, Energy and Industrial Strategy, the Scottish Government, the Welsh Government and the Northern Ireland Department of Environment. Data from other sources, such as Scottish Transport Statistics, are also presented in the report. In this inventory:

- In line with the methodology used to report against the Climate Change (Scotland) Act 2009, emissions from transport only include those at the point of use, also known as tailpipe emissions. Lifestyle and displaced emissions, such as emissions from generating the electricity to power electric trains, are not included. The all sources figures given in Table 13.2 take account of removals of carbon dioxide as a result of Land Use, Land Use Change and Forestry (LULUCF).

13.4.2 The way in which emissions are allocated to the different countries within the UK are described in the *Greenhouse Gas Inventories* report. In summary, the bases of the different estimates are:

- *road transport* - the estimated volume of traffic on the roads within each country. The estimates for carbon dioxide are constrained so that the total for the four countries agrees with the internationally-reported overall total for the UK as a whole (which was calculated from the total volume of fuel sold within the UK);
- *railways* - emissions from railway locomotives in Great Britain are disaggregated based on diesel oil consumption data for passenger services and National Atmospheric Emissions Inventory (NAEI) estimates for freight services. In addition, emissions associated with the use of coal for steam locomotives are also included within the calculations. The data used in the 2006 inventory was reported for each railway company, whose area of operation can in most cases be allocated to one of the four constituent countries;
- *civil aviation* - estimates of emissions from domestic aviation are calculated based on aircraft movement data from the UK's major airports. The total number of domestic flights from each of the devolved administration areas has been calculated, and based on this, a fraction of the total UK emission has been allocated to each constituent country. This approach is also used to allocate emissions from aircraft support vehicles;
- *national navigation* - the disaggregation of emissions from navigation and coastal shipping has been derived in a similar way to the approach used for aviation, based on port movements in each constituent country.

13.4.3 Road transport carbon dioxide (CO₂) emissions are estimated using vehicle kilometre data constrained so the sum of the UK areas equate to the total for the UK inventory (where that total is derived from fuel sales data of petrol and DERV within the UK as specified in the reporting guidelines of the Intergovernmental Panel on Climate Change). A criticism of this method is that the presentation of results does not always provide a CO₂ emission trend that is directly consistent with the vehicle kilometre trend data, as the fluctuations in UK fuel data have a more significant impact on the resultant emission trends. As an alternative, road transport CO₂ emissions from the constituent countries of the UK may be estimated solely by vehicle kilometre data unconstrained to the UK total derived from fuel consumption data.

13.4.4 The difference in results between the constrained and unconstrained methods at Devolved Administration level largely reflects the difference in the results at UK level

NOTES & DEFINITIONS - ENVIRONMENT AND EMISSIONS

between bottom-up calculated fuel consumption using vehicle km data and fuel consumption factors and the fuel sales data in the Digest of UK Energy Statistics (DUKES). The reason for a disparity has previously been attributed to cross-border fuel sales (“fuel tourism”) although model uncertainty was always emphasised as an additional, and probably a major explanation for the differences.

13.4.5 Any change in the methodologies or the factors used to calculate fuel consumption will affect the magnitude of the difference between calculated fuel consumption at national level and sales figures from DUKES and so, in turn, it will affect the disparity between the Devolved Administration CO₂ emissions from the constrained and unconstrained approaches.

13.5 Carbon dioxide emissions per passenger-kilometre

13.5.1 The figures are taken from the new Greenhouse Gas Conversion Factor Repository created for Defra
<https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2018>

13.5.2 Figures are consistent with the factors used in the compilation of the UK’s National Atmospheric Emissions Inventory (NAEI) and in the Greenhouse Gas Emissions Inventory compiled for Scotland and other constituent countries in the UK by Ricardo - AEA.

13.5.3 Figures within the repository are estimated using data for GB/UK as a whole and so do not relate specifically to Scotland. There are no estimates of emissions per passenger-kilometre for Scotland alone. The basis of each estimate is as follows:

- **Road Transport** - The factors used are estimated values for the average petrol and diesel car fleet travelling on average trips in the UK. This has been divided by an average car occupancy rate of 1.50 passengers to calculate average emissions per passenger kilometre.
- **Rail** - the national rail estimate refers to an average emission factor for diesel, electric and steam trains. The light rail and tram factors are based on an average of the annual electricity consumption and passenger kilometre data provided by network operators, and a CO₂ emission factor for electricity generation on the national grid from the UK Greenhouse Gas Inventory.
- **Air** - the emission factor is an aggregate representation of typical CO₂ emissions from illustrative types of aircraft for the three types of air services – domestic, short haul and long haul. Broadly speaking the definition of domestic flights, are those within the UK, short-haul are those within Europe and long-haul are outside of Europe. In keeping with evidence from the IPCC, a 8% uplift factor has been applied to allow for sub-optimal routing and stacking at airports during periods of heavy congestion.

13.6 Vehicle Licensing data

13.6.1 Data used in tables 13.6 to 13.10 is provided by the Department for Transport Vehicle Licensing team. More information can be found in Chapter 1 of STS or on the DfT website.

NOTES & DEFINITIONS - ENVIRONMENT AND EMISSIONS

13.7 Further Information

13.7.1 Carbon dioxide and other greenhouse gases emissions allocated to Scotland - see Official Statistics publication *Scottish Greenhouse Gas Emissions* <http://www.gov.scot/Publications/2017/06/9986> or Peter Sumner of Transport Scotland, Transport Analytical Services (0131 244 3446).

13.7.2 Carbon dioxide emissions per passenger-kilometre is available from <https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2017>

13.7.3 Air Pollutants and Air Quality - see *Scottish Environment Statistics Online* <http://www.gov.scot/seso/Datasets.aspx?TID=2> or John Landrock of The Scottish Government, Environment Statistics branch (0131 244 0441).

13.8 Other data sources

Within Scottish Transport Statistics:

- Chapter 1 – Road vehicles
- Chapter 5 – Road Traffic
- Chapter 11 – Personal and Cross Modal Travel

Other Transport Scotland Statistics Publications:

Transport and Travel in Scotland – includes more detailed analysis of the SHS data, in particular:

- Table 2 – Fuel costs
- Table 7 – Mode of transport for travel to work
- Table 11 – Car sharing
- Table 18b – Car Access
- Table 20 – Frequency of driving.
- Table 28 – Frequency of train use

Scottish Household Survey Travel Diary – includes detailed tables using the Travel Diary dataset, in particular:

- Table 2 – journeys by mode of transport
- Table 2a – journey distance by mode of transport
- Table 4a – mode of transport by journey distance
- Table 5a – distance summary statistics by mode of transport

SHS Local Authority Results – provides breakdowns of SHS data by Local Authority, Regional Transport Partnership and Urban Rural Classification. In particular:

- Table 1 – Travel to work by mode of transport
- Table 2 – Travel to school by mode of transport
- Table 16 – Journeys by mode of transport.

Department for Transport produce a number of related publications mostly at GB level, including:

- Traffic estimates
- Vehicle registrations.

BEIS

- Digest of UK Energy Statistics (DUKES)

Scottish Government

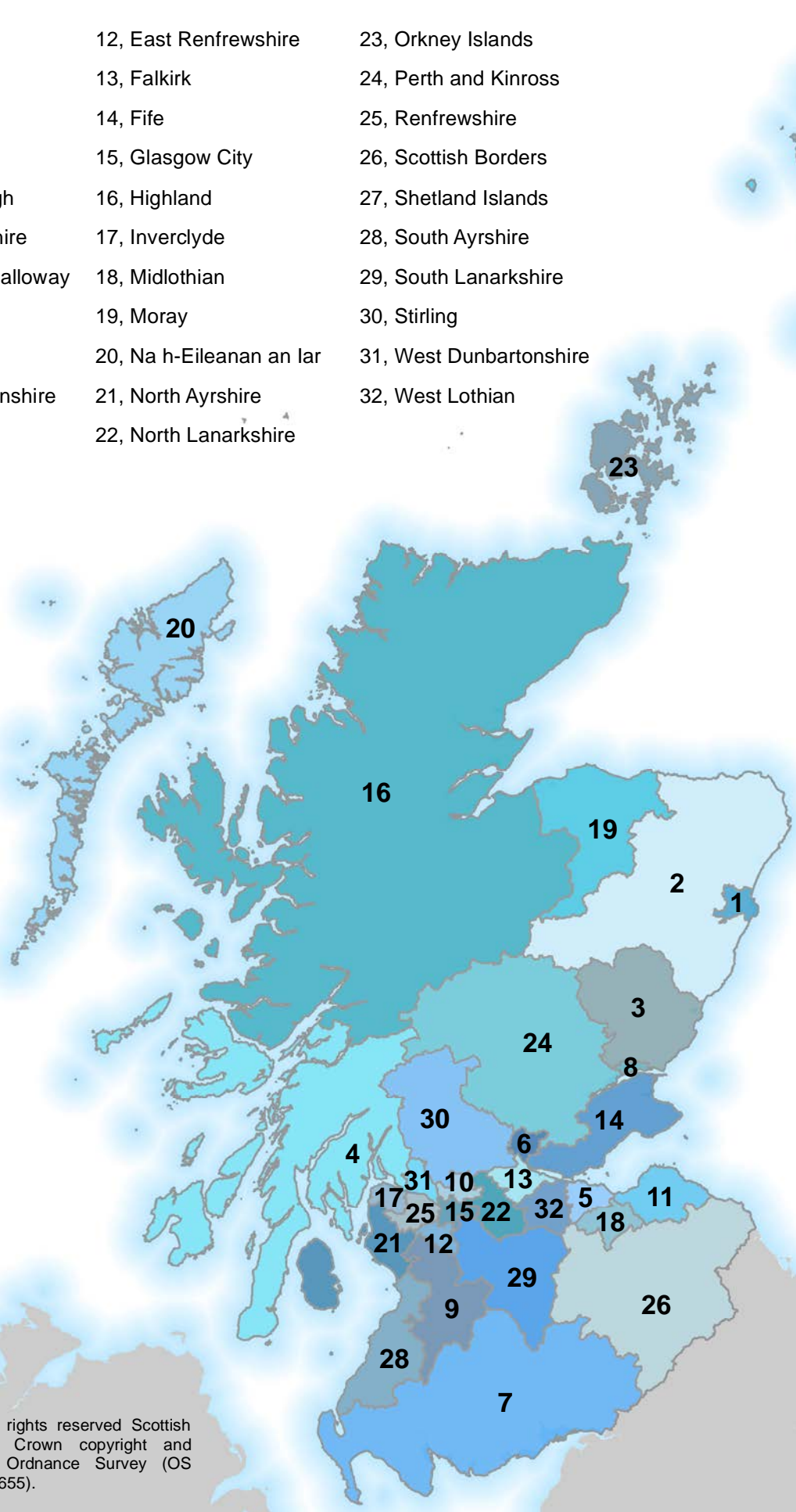
- Scottish Greenhouse Gas Emissions, 2016 – Official Statistics bulletin

Some non-Official Statistics sources

- Transport Scotland – Report on Proposals and Policies
- Transport Scotland - Carbon Account for Transport

Local Authority Boundaries

- | | | |
|--------------------------|--------------------------|-------------------------|
| 1, Aberdeen City | 12, East Renfrewshire | 23, Orkney Islands |
| 2, Aberdeenshire | 13, Falkirk | 24, Perth and Kinross |
| 3, Angus | 14, Fife | 25, Renfrewshire |
| 4, Argyll and Bute | 15, Glasgow City | 26, Scottish Borders |
| 5, City of Edinburgh | 16, Highland | 27, Shetland Islands |
| 6, Clackmannanshire | 17, Inverclyde | 28, South Ayrshire |
| 7, Dumfries and Galloway | 18, Midlothian | 29, South Lanarkshire |
| 8, Dundee City | 19, Moray | 30, Stirling |
| 9, East Ayrshire | 20, Na h-Eileanan an Iar | 31, West Dunbartonshire |
| 10, East Dunbartonshire | 21, North Ayrshire | 32, West Lothian |
| 11, East Lothian | 22, North Lanarkshire | |



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Scale: 1:2,730,000

Scottish Government GI Science & Analysis Team, November 2015, Job 5717 - LA



Mid-year population estimates for 2018 by local authority area

Area	Population
Aberdeen City	227,560
Aberdeenshire	261,470
Angus	116,040
Argyll & Bute	86,260
Clackmannanshire	51,400
Dumfries & Galloway	148,790
Dundee City	148,750
East Ayrshire	121,840
East Dunbartonshire	108,330
East Lothian	105,790
East Renfrewshire	95,170
Edinburgh, City of	518,500
Eilean Siar	26,830
Falkirk	160,340
Fife	371,910
Glasgow City	626,410
Highland	235,540
Inverclyde	78,150
Midlothian	91,340
Moray	95,520
North Ayrshire	135,280
North Lanarkshire	340,180
Orkney Islands	22,190
Perth & Kinross	151,290
Renfrewshire	177,790
Scottish Borders	115,270
Shetland Islands	22,990
South Ayrshire	112,550
South Lanarkshire	319,020
Stirling	94,330
West Dunbartonshire	89,130
West Lothian	182,140
Scotland	5,438,100

LIST OF AREAS COVERED BY OPERATING COMPANIES.

Since 2001-02, the management of the Trunk Road network has been performed by 5 Operating Companies. The following lists Councils whose areas include parts of the routes that were managed by each of the Operating Companies from 1 April 2001. Because routes managed by different companies may have run into the area of the same council, some council names appear within more than one company. (NB: In addition, part of the motorway network in South West Scotland is managed by Autolink.)

1. Operating Companies

1.1 *Connect*

East Ayrshire Council
East Renfrewshire Council

1.2 *South West Operating Company*

East Ayrshire Council
East Renfrewshire Council
Glasgow City Council
Inverclyde Council
North Lanarkshire Council
Renfrewshire Council
South Ayrshire Council
South Lanarkshire Council
West Dunbartonshire Council
Dumfries and Galloway Council
North Ayrshire Council

1.3 *North East Operating Company*

Aberdeen City Council
Aberdeenshire Council
Angus Council
Clackmannanshire Council
Dundee City Council
Fife Council
Perth and Kinross Council
Stirling Council
Highland Council
Moray Council

1.4 *South East Operating Company*

Edinburgh City Council
East Lothian Council
Falkirk Council
Fife Council
Midlothian Council
North Lanarkshire Council
Scottish Borders Council
Stirling Council
West Lothian Council
Dumfries and Galloway Council
South Lanarkshire Council

1.5 *North West Operating Company*

Argyll and Bute Council
Perth and Kinross Council
Stirling Council
West Dunbartonshire Council
Highland Council

ERRORS IN THE PREVIOUS EDITION

This list covers errors which occurred in the preparation of the tables or the commentary in *Scottish Transport Statistics*. It does *not* include cases where statistics now differ from those in the previous edition, due to revisions by the supplier. Such revisions could occur following more information becoming available, or an improvement in estimation methodology, or the correction of errors in the supplier's own systems. In such cases, the revisions may be mentioned in the text or a footnote to the relevant table, if they are large enough to warrant this.

There were no errors found in the previous edition

RECENT SOCIAL AND ECONOMIC RESEARCH REPORTS

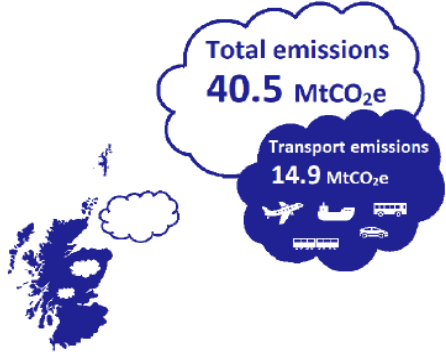
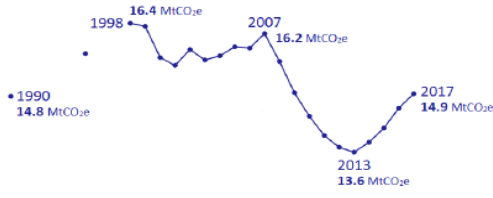
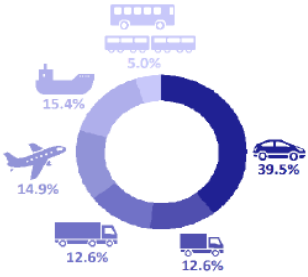
Research reports published since the previous edition of “*Scottish Transport Statistics*” are listed below.

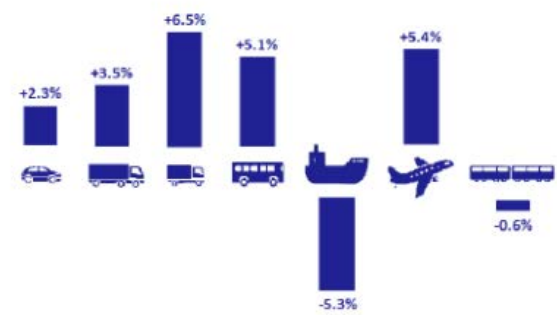
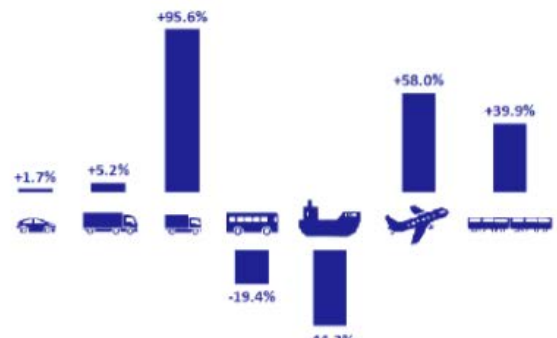
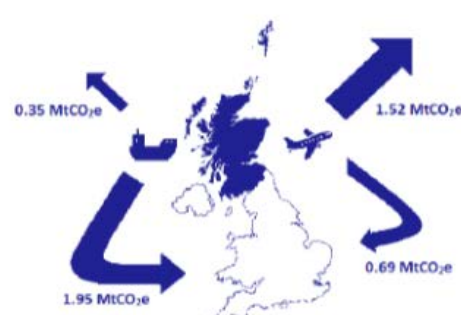
Title	Seatbelt and Mobile Phone Usage Survey
Publication date	February 2019
Contractor	In house
Purpose of research	<p>Provides statistics on the proportion of vehicle occupants observed wearing seatbelts and drivers using mobile phones from a roadside observation survey commissioned jointly by Transport Scotland and the Department for Transport in 2017.</p> <p>The 2017 seatbelt survey resulted in 7,169 vehicle occupants being observed in Scotland, whilst the mobile phone survey recorded the behaviour of 14,427 drivers.</p>
Main findings	<ul style="list-style-type: none"> • 97.3% of all drivers were recorded using a seatbelt in 2017, an increase from the 96.4% observed in 2014 • the proportion of car drivers observed using their seatbelt correctly in 2017 was 98.6%, a marginal increase from the 97.8% recorded in 2014 • rear seat passenger seatbelt usage has decreased, dropping from 99% in 2014 to 95.1%. However, this is largely driven by the inclusion of rear seat passengers in 'other vehicles' (vans, lorries, buses, coaches, and mini-buses) which have lower seatbelt rates overall and were excluded in the 2014 survey • the proportion of car drivers observed using a mobile phone whilst driving was at 1.8% at moving (free-flowing) sites, a marginal increase from the 2014 figure (1.3%). At stationary (traffic light controlled junction) sites, the proportion observed using a mobile phone was 2.4%, an increase from 2014 figure (1.6%) • the mobile usage rate at moving sites by drivers of 'other vehicles' (vans, lorries, buses, coaches, and mini-buses) was notably higher (3%) compared to car drivers (1.8%) • at-ear mobile phone use has increased from 0.2% at both types of site in 2014 to 0.9% at moving sites and 1.2% at stationary sites
Link to report	https://www.transport.gov.scot/publication/seatbelt-and-mobile-phone-usage-survey-scotland-2017/

Title	Evaluation of Road Safety Scotland’s Theatre in Education Performances
Publication date	August 2019
Contractor	KSO Research
Purpose of research	This report presents the findings from an independent evaluation of the Theatre in Education (TiE) programme, commissioned by Transport Scotland. The evaluation sought to explore if the current TiE programme is fit for purpose in helping to protect children and young people. It also sought to explore value for money of the programme and provide recommendations about how the programme and performances can be improved.
Main findings	<ul style="list-style-type: none"> • Overall, feedback for each performance was very positive, and audiences appeared to engage well, commenting positively on both content and mode of delivery. There was very little that audiences suggested could be done to improve the performances except,

	<p>perhaps, some streamlining of messages and making shows even more interactive (especially for school audiences).</p> <ul style="list-style-type: none"> • Despite very positive feedback, however, the evaluation showed that there was no measurable impact on attitudes to road safety risks or on self-reported frequency of engaging in risky road safety behaviours. For school pupils, this was largely because audiences were already confident in their road safety awareness and felt that they were 'safe' in their current behaviours. • For the community performance, although it was not possible to evaluate impact per se, a broad demographic of audience members took part in the research and again, provided positive feedback. • Teachers reported positively on the programme at all levels of the curriculum, and delivery of road safety messages by a touring theatre company was particularly welcomed by schools. Teaching staff indicated that pupils preferred this particular mode of delivery and especially liked the relatability of the performances for pupils (which was reiterated by pupils themselves). • Learning professionals confirmed that there was little other road safety education delivery at any of the stages targeted by the performances, especially at secondary level. There was also negligible follow-up activity for the performances in schools. Learning professionals suggested that, if the programme were removed, other competing priorities, as well as a lack of space in the curriculum, may mean that road safety messages are not delivered at all. • Local authority representatives, including Road Safety Teams and education contacts, provided unanimous support for the theatre programme. They endorsed many of the views of learning professionals regarding the quality of the programme and the positive engagement demonstrated by audiences. They also reiterated that, without the programme, schools were unlikely to receive alternative provision, due to limited resources and competing priorities for local authority staff, including those with designated road safety roles. • Understanding of the content of performances was clear, with no ambiguity about the road safety themes being conveyed. Relatability was seen as a real strength of all tours and the use of humour, empathy and emotional impact to draw people into the performances seem to work well. All plays resonated with their target audiences, giving age appropriate messages. • Recall was also strong in the short term and both school and community audiences alike welcomed theatre as a mode of delivery. This was especially true for older school pupils and communities where exposure to educational drama of this kind was described as limited • Other than reducing the reach of the TiE programme, the evaluation showed that there appears to be little scope for cost savings - money is already spent efficiently, and there are few costs incurred beyond the core RSS allocation. Added value is achieved from the guaranteed reach that theatre provides when compared to online and printed resources, i.e. captive audiences. There is also a strong probability, based on learning from the research, that if TiE was removed or reduced, it would not be replaced with alternative provision by schools or local authorities themselves. Indeed, there was nothing to suggest that local authorities or individual schools would proactively explore options
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	to fill a gap left by TiE if this occurred, as competing priorities in the curriculum alongside limited local authority budgets means that other activities are prioritised. The value in retaining TiE, although not measurable, is that this situation of 'no provision' is avoided.
Link to report	https://www.transport.gov.scot/publication/evaluation-of-road-safety-scotland-s-theatre-in-education-performances/

Title	Carbon Account for Transport No. 11: 2019
Publication date	September 2019
Contractor	In house
Purpose of research	The Carbon Account for Transport (CAT) is published annually, and presents a detailed analysis of already published transport emissions data for Scotland. This is the eleventh edition of the CAT, and includes a detailed analysis of the latest emissions data (1990-2017), published by the National Atmospheric Emissions Inventory in June 2019
Main findings	<p>Transport accounted for 36.8% of Scotland's total greenhouse gas emissions in 2017.</p> <p>Scotland's total greenhouse gas emissions in 2017 were 40.5 megatonnes of carbon dioxide equivalent (MtCO₂e). Transport, including international aviation and shipping, accounted for 14.9 MtCO₂e.</p>  <p>2017 was the fourth consecutive year that Scotland's transport emissions have increased.</p> <p>Scotland's transport emissions in 2017 were 2.2% higher than in 2016, and 0.4% higher than in 1990.</p> <p>Transport emissions have risen every year since the previous low in 2013.</p>  <p>Cars were the most emitting transport mode in 2017.</p> <p>Cars accounted for 39.5% of Scotland's transport emissions in 2017. Goods vehicles contributed 25.2%, aviation and shipping accounted for 14.9% and 15.4%, respectively, and other transport modes accounted for 5.0%.</p> 

	<p>Road transport and aviation emissions increased between 2016 and 2017, while maritime and rail emissions decreased.</p> <p>Road transport emissions rose in 2017, with car, HGV, LGV and bus emissions all higher than in 2016. Aviation emissions were also higher than in 2016.</p> <p>Shipping emissions saw the largest percentage decrease, with rail emissions also falling slightly.</p>  <table border="1"> <caption>Percentage change in emissions (2016-2017)</caption> <thead> <tr> <th>Mode</th> <th>Change (%)</th> </tr> </thead> <tbody> <tr> <td>Car</td> <td>+2.3%</td> </tr> <tr> <td>HGV</td> <td>+3.5%</td> </tr> <tr> <td>LGV</td> <td>+6.5%</td> </tr> <tr> <td>Bus</td> <td>+5.1%</td> </tr> <tr> <td>Shipping</td> <td>-5.3%</td> </tr> <tr> <td>Aviation</td> <td>+5.4%</td> </tr> <tr> <td>Rail</td> <td>-0.6%</td> </tr> </tbody> </table> <hr/> <p>Between 1990 and 2017, LGV emissions saw the largest percentage increase of all transport modes.</p> <p>Aviation and rail emissions also increased substantially over this period.</p> <p>Shipping emissions saw the largest percentage decrease of all transport modes, with bus emissions also falling.</p>  <table border="1"> <caption>Percentage change in emissions (1990-2017)</caption> <thead> <tr> <th>Mode</th> <th>Change (%)</th> </tr> </thead> <tbody> <tr> <td>Car</td> <td>+1.7%</td> </tr> <tr> <td>HGV</td> <td>+5.2%</td> </tr> <tr> <td>LGV</td> <td>+95.6%</td> </tr> <tr> <td>Bus</td> <td>-19.4%</td> </tr> <tr> <td>Shipping</td> <td>-44.3%</td> </tr> <tr> <td>Aviation</td> <td>+58.0%</td> </tr> <tr> <td>Rail</td> <td>+39.9%</td> </tr> </tbody> </table> <hr/> <p>The majority of aviation emissions were from international aviation, while shipping emissions were mostly from domestic shipping.</p> <p>68.8% of aviation emissions in 2017 were due to international aviation, while just 15.2% of shipping emissions were due to international shipping.</p>  <table border="1"> <caption>International Emissions (2017)</caption> <thead> <tr> <th>Mode</th> <th>Emissions (MtCO₂e)</th> </tr> </thead> <tbody> <tr> <td>International Aviation</td> <td>1.95</td> </tr> <tr> <td>International Shipping</td> <td>0.69</td> </tr> <tr> <td>Domestic Shipping</td> <td>1.52</td> </tr> </tbody> </table>	Mode	Change (%)	Car	+2.3%	HGV	+3.5%	LGV	+6.5%	Bus	+5.1%	Shipping	-5.3%	Aviation	+5.4%	Rail	-0.6%	Mode	Change (%)	Car	+1.7%	HGV	+5.2%	LGV	+95.6%	Bus	-19.4%	Shipping	-44.3%	Aviation	+58.0%	Rail	+39.9%	Mode	Emissions (MtCO ₂ e)	International Aviation	1.95	International Shipping	0.69	Domestic Shipping	1.52
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<p>Title</p>	<p>Transporting Scotland's Trade 2019 Edition</p>
<p>Publication date</p>	<p>October 2019</p>
<p>Contractor</p>	<p>In House</p>
<p>Purpose of research</p>	<p>This 2019 edition of Transporting Scotland's Trade provides a summary of Scotland's key exports and imports; how they are transported to, from and within Scotland; and an overview of some of Scotland's key transport hubs and trading partners</p>
<p>Main findings</p>	<ul style="list-style-type: none"> • Scotland traded (imports and exports) over £57.6 billion worth of goods in 2018, 56% of which were exports. Of the £32.2 billion worth of goods exports destined for international markets, £17.3 billion worth (54%) went to the EU. • The top 5 destinations for Scottish exports in 2018 were the Netherlands, the United States, Germany, the Republic of Ireland, and France. • Scotland's key export markets include 'Petroleum, petroleum products & related materials', 'Beverages' and 'Power generating

	<p>machinery & equipment' – these three commodity groups combined accounted for 57% of the value of Scottish goods exports in 2018.</p> <ul style="list-style-type: none"> • In 2018, total freight (road, port and air) carried in Scotland was approximately 214 million tonnes. Road freight made up the largest proportion (69%) followed by port (31%) and then air (<1%). • The majority of freight lifted in Scotland was carried by HGV on the road network and remained within Scotland (111.4 million tonnes). • Although the amount of road freight carried from Scotland to mainland Europe is small (less than 200,000 tonnes), the road network between Scotland and Europe continues to be an essential way to transport perishable goods to market. • Scotland's rail freight network, carried freight around 430 million net tonne miles between April 2018 and March 2019. • Forth Ports is Scotland's largest port with 26.6 million tonnes being handled in 2018. • Clyde Ports boasts the deepest sea entrance in Northern Europe and is the busiest cruise terminal in Scotland. • Cairnryan/Loch Ryan is Scotland's main port for carrying goods and passengers to Northern Ireland. In 2018, all passenger travel by ferry to Northern Ireland went via Cairnryan. • Edinburgh and Glasgow were in the UK top 10 airports for both terminal passengers (6th and 8th respectively) and freight lifted (9th and 10th respectively) in 2018. • Scotland's largest intermodal rail freight terminals are across the central belt – Coatbridge, Grangemouth and Mossend. • Scotland's number one international export destination is the Netherlands. This is largely due to the Dutch port of Rotterdam being an international shipping hub with goods exported to other global destinations from there. • In 2018, the USA was Scotland's main non-EU export destination with whisky being a key export commodity. Although most high density freight to the USA is carried by ship, direct flights operate from Scotland, carrying low volume/high value freight. • In 2018, the Republic of Ireland replaced China as one of Scotland's top 5 exporting destinations. £1.5 billion of exports went to the Irish Republic, accounting for 3.5% of Scotland's total exports. A share of these goods would have been transported via the 13 daily sailings from Cairnryan / Loch Ryan to Belfast and Larne. • Since 2013, Scotland has imported more goods from Norway than any other nation. Between 2013 and latest available data (2019 Q2), imports from Norway have totalled more than £25.5 billion. As a result of both countries involvement in the North Sea oil and gas fields, the top categories are related to petroleum and gas. These are typically transported by either boat or pipeline.
<p>Link to report</p>	<p>https://www.transport.gov.scot/publication/transporting-scotlands-trade-2019-edition/</p>

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Transport Scotland Statistics publications

Transport and Travel in Scotland **Annual.** Summarises a broad range of transport statistics including road vehicles, traffic, casualties, bus and rail passengers, road and rail freight, air and water transport and personal travel. Further breakdowns of Scottish Household Survey transport data including households' access to cars and bikes, frequency of driving, modes of travel to work and school, use and opinions of public transport and access to services are also presented.

From the 2014 release onwards, this publication includes findings from the Scottish Household Survey Travel Diary.

Latest edition: provides figures up to 2018, published September 2019 *Web only*

SHS Transport: Local Area Analysis **Annual.** Provides SHS information for Local Authorities and Regional Transport Partnership areas.

Latest edition: provides figures for 2018, published September 2019 *Web tables only*

Key Reported Road Casualty Statistics **Annual.** Provisional figures on accidents, casualties by severity, casualties by type of road, casualties by mode of transport, and child casualties, including trends in recent years and progress towards the casualty reduction targets for the year 2020. Also figures by Police Force and local authority.

Latest edition: provides figures up to 2018; published in June 2019 *Web only*

Reported Road Casualties Scotland **Annual.** More detailed tables on accidents, motorists and casualties, and country comparisons. Also includes 2020 casualty reduction targets, estimates of undercounting of road casualties, Contributory Factor data and compares the reported numbers of casualties with information from other sources. Detailed tables on Accidents, Accident costs, Vehicles involved, Drivers and riders, Drivers breath tested, Drink-drive accidents and casualties, and Casualties.

Latest edition: provides figures up to 2018, published in October 2019

Published Annually *Web only*

Scottish Household Survey Travel Diary results

Discontinued: These results are now published within the Transport and Travel in Scotland publication.

Provides details of journeys made collected via the Travel Diary. Includes purposes for travel, distances, the times of day at which trips start, duration of journeys, days of the week and car occupancy levels.

Last release (websites): 2012 figures, trends since 2002; published November 2013. *Web only*

Last detailed biennial data: figures to 2009/10, trends since 1999; published Nov 2011. *Web only*

National Travel Survey Scottish Results **Biennial.**

Discontinued: DfT no longer collect data for Scotland and this publication is no longer updated.

These web-tables provides trends on the average number of journeys and average distance travelled per person per year, including average journey length, main mode of travel, journey purpose.

Last edition: figures up to 2009/2010; published in March 2012 *Web only*

Bus and Coach Statistics **Annual.**

Discontinued: The bus chapter in Scottish Transport Statistics has now been expanded to include the findings from this publication.

Presents Department for Transport statistics on bus and coach operators, and some related Scottish Household Survey (SHS) results. Includes: vehicle kms, patronage levels, fare indices; passenger receipts; public transport support and concessionary fare reimbursement; adults' frequency of use of local bus services; views on aspects of bus services; travel to work by bus; reasons for not using buses; safety on buses; concessionary travel passes.

Last release (websites): figures up to 2010-11; published February 2012 *Web only*

Transport Statistics publications produced by other administrations

The **Department for Transport** (DfT) produces many statistical publications, most of which provide detailed breakdowns of the figures for GB/UK as a whole. However, some contain statistics for Scotland.

DfT's annual **Regional Transport Statistics** bulletin gives figures on many topics for Scotland, Wales, Northern Ireland and each of the regions of England. It should be the "first port of call" for anyone who wishes to compare any figures for transport in Scotland with those for some or all of the other parts of GB/UK.

Other DfT publications include some figures for Scotland, such as *Transport Statistics Great Britain* (which, like *Scottish Transport Statistics*, contains figures on many different aspects of Transport), *Maritime Statistics*, *Public Transport Statistics*, and *Road Casualties Great Britain*. Further information about DfT Transport Statistics publications is available via: <http://tinyurl.com/nm8re6m>

The **Welsh Assembly Government** produces various publications which contain statistics on transport in Wales, in particular *Welsh Transport Statistics*. More information is available via: <http://new.wales.gov.uk>

The statistical publications produced in **Northern Ireland** include *Northern Ireland Transport Statistics*. More information is available via: www.drdni.gov.uk/index/statistics.htm

TRANSPORT STATISTICS USERS' GROUP

The Transport Statistics Users' Group (TSUG) was set up in 1985 as a result of an initiative by the Statistics Users Council and the The Institute of Logistics and Transport (then known as The Chartered Institute of Transport).

From its inception TSUG has had strong links with the government departments responsible for transport statistics. It has developed an excellent working relationship with the Transport Analytical Services Team of Transport Scotland.

The aims of TSUG are:

- to identify problems in the provision and understanding of transport statistics, and to discuss solutions with the responsible authorities;
- to provide a forum for the exchange of views and information between users and providers;
- to encourage the proper use of statistics through greater publicity.
- to facilitate a network for sharing ideas, information and expertise.

The main activities of TSUG are:

- The production of a regular Newsletter containing news and reviews of matters relating to transport statistics and the TSUG membership.
- The organisation of Seminars addressing contemporary issues in the field of transport statistics. Most seminars are held in London, but there is an annual seminar in Edinburgh and other ad hoc regional seminars. Reports of seminars appear in the Newsletter.
- The maintenance of a Website which TSUG Members can use to find out about and book on TSUG seminars, and access an information archive.

The membership of TSUG includes government agencies, local authorities, trade associations, transport consultants, transport operators and universities, as well as individual professionals. Corporate membership of the Group is £50, personal membership £22.50, and student membership £10. For further information about TSUG and membership, please visit the website at www.tsug.org.uk or contact:

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The data collected for this statistical bulletin:

- are available in more detail through Scottish Neighbourhood Statistics
- are available as part of a GB dataset on data.gov.uk
- may be made available on request, subject to consideration of legal and ethical factors. Please contact Transtat@transport.gov.scot for further information.
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Title	Last published	Price
Scottish Transport Statistics	February 2020	Web only
Transport and Travel in Scotland (TATIS)	September 2019	Web only
Reported Road Casualties Scotland	October 2019	Web only
Key Reported Road Casualty Statistics	June 2019	Web only

ISSN 1351 3869 ISBN 978-1-911582-93-9

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ISBN: 978-1-911582-93-9

APS Group Scotland PPDAS261555
(02/2020)