



**TRANSPORT  
SCOTLAND**  
CÒMHDHAIL ALBA

# Scottish Transport Statistics 2022

## Road Traffic

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## I. 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 figures on traffic flows at selected points on the road network, selected 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.

**Transport and travel habits in Scotland were profoundly affected by the Covid-19 pandemic, with restrictions on travel and daily activity in place for large parts of 2020. However, with restrictions being lifted in 2021 travel patterns started to recover.**

## Key Points

- **43 billion vehicle km were driven in 2021, a 15% rise compared with 2020.**
- **39% of the distance travelled on the road network is on Trunk roads, which account for only 7% of the road network.**
- **13% of driver journeys were delayed by congestion in 2021.**

## 2 Main Points

### Major and Minor Roads

2.1 The estimated volume of traffic on Scotland's roads in 2021 was around 43 billion (thousand million) vehicle km: 15% more than 2020. As with other types of transport, road traffic was significantly affected by the Coronavirus pandemic. However, since restrictions have lifted there has been a recovery in the amount of road traffic. There had been slight increases in the previous eight 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 2021 was estimated to be 27.5 billion vehicle-km. Traffic on Motorways accounted for 7.4

billion vehicle km (17% of all traffic). This was less than the estimated 9.5 billion vehicle km on trunk A roads (22% of the total), and the 10.6 billion on non-trunk A roads (24%). Sixty seven per cent of A road traffic was in rural areas: 13.5 billion out of the A roads total of 20 billion vehicle km. (*Table 5.1*)

2.3 Minor roads (B, C and unclassified roads) accounted for the remaining 37% of traffic in 2021: an estimated 15.9 billion vehicle km (*Table 5.1*)

2.5 The total volume of traffic on major roads (Motorways and A roads) in 2021 was 15% higher than in the previous year (Motorway traffic increased by 18%). Minor road traffic was about 14% higher than in 2020. Traffic levels are around one per cent higher than in 2011. (*Table 5.1*)

## Trends

2.6 Prior to 2020, traffic volumes on major roads in Scotland had been broadly increasing over the past three decades. The volumes reached a peak in 2007 and fell back slightly before rising to new highs in 2019. In 2019, traffic volumes on major roads were 46% higher than in 1995. Motorway traffic saw a 14 per cent rise between 2003 and 2008, fell slightly over the next two years before resuming its rise in the years leading up the pandemic. However, due to the Coronavirus pandemic restrictions lifting in 2021 motorway traffic is now 11% higher than the earlier peak in 2008. (*Table 5.1*)

2.7 Traffic on minor roads is estimated to have risen by 4% between 2003 and 2007, falling by 2% between then and 2012, before rising again. The total volume of traffic on all roads in Scotland was also estimated to have risen by 5% between 2003 and 2007, falling by 2% between then and 2011, before rising again in the years before the pandemic. (*Table 5.1*)

2.8 Cars account for over three quarters (72%) 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 20% and heavy goods vehicles for 6%. Pedal cycle traffic fell by 27% in 2021. However, pedal cycles still account for only one per cent of estimated traffic volume. (*Table 5.2 & 5.3*)

2.9 In 2021, the volume of car traffic was 7 per cent lower than in 2011, light goods vehicle traffic 43 per cent higher and bus vehicle traffic 29% lower. (*Table 5.3*)

## Local Area volumes

2.10 The seven local authorities with the highest traffic volumes (Glasgow, North Lanarkshire, South Lanarkshire, Edinburgh, Fife, Highland and Aberdeenshire) account for 46% of all traffic on Scotland's roads. (*Table 5.4*)

2.12 Selected trunk road traffic flows are given in Table 5.7. The A80 Cumbernauld was the busiest site from this sample, with an annual average of 65,602 vehicles per day in 2021. Its Monday-Friday average was 70,852 vehicles per day. The A80 Cumbernauld had the highest Monday-Friday peak hourly flows at 4,865 vehicles in the morning and 5,470 vehicles in the evening. At the opposite end of the scale, the A835 Aultguish averaged 1,697 vehicles per day over the year as a whole and its Monday-Friday peak hourly flows were 115 in the morning and 148 in the afternoon. The M74 Junction 9 had the highest percentage of heavy goods vehicle traffic in 2021 at 41% for the week, followed by the M74 Junction 18 to 19 (36%). (*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). In 2021, 13% of journeys made as the driver of a car were said to be delayed due to traffic congestion. Short delays were more common than longer ones - 4% of car drivers' journeys were delayed by around 5 minutes compared to 3% by 15 minutes or longer. Weekday journeys were most likely to suffer congestion delays between 7 and 9 am and 4 and 6 pm (20-21% and 21-22% respectively). Fewer delays (5%) were experienced by people residing in remote small towns than those in accessible small towns (10%). (*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 2.7 million tonnes of petrol and diesel in 2020. 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 road traffic section of the user guide.

2.18 Petrol and diesel consumption has been rising since 2013. However, the figure for 2020 will have been affected by the Covid pandemic. 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*)



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Published by Transport Scotland, March 2023

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