

# About this data: Fixed broadband performance

For our Connected Nations 2024 report, we asked 59 fixed broadband providers to submit data on all their active lines, i.e. connections that provide an active broadband service to residential or business customers, including upload and download speeds per connection. The data was collected as a snapshot for July 2024.

We provide information on average speeds at three levels: local and unitary authority, Westminster constituency, and census output area. Please note that we no longer report on line speeds at postcode level.

For local and unitary authorities, we also report on average monthly data usage per connection and take-up of full-fibre broadband.

Due to changes in the methodology, most of the metrics reported this year are different from the ones provided in previous years, hence a year-on-year comparison is not possible except for full-fibre take-up:

1. This year we asked providers to submit the maximum download and upload speed recorded on each line and, for all technologies other than full fibre, the average download and upload speed as well. For consistency across technologies, we used the maximum speeds for our analysis, whereas previous reports relied on average speeds.
2. We have changed some of the speed ranges we report on to align with the interactive report.
3. This year's monthly data usage figures are derived from aggregated data volumes measured at the Optical Line Terminal (OLT) or headend, whereas previously we collected data usage measurements on a per-line basis. We also changed the collection month from May to July.

More details of our approach to the data collection and analysis can be found in the [Methodology Annex](#).

If you have any questions or feedback on the data, please contact us at [open.data@ofcom.org.uk](mailto:open.data@ofcom.org.uk).

We are providing this data on an open basis via the [Open Government Licence](#), which gives users various freedoms about how they choose to use the data, subject to conditions.

The files are provided as a Comma Separated Values file, with double quote (") text delimiters where applicable.

## Fixed broadband performance files

We provide information on fixed broadband performance at three levels, taking into account both residential and business broadband connections:

1. Local and Unitary Authority
2. Parliamentary Constituency
3. Census Output Area (2021 Census for England, Northern Ireland and Wales, 2011 Census for Scotland)

Level	File name	Number of data rows	File size
Local and Unitary Authority (laua)	202407_fixed_performance_laua_r01.csv	361	31 KB
Parliamentary Constituency (pcon)	202407_fixed_performance_pcon_r01.csv	650	49 KB
Census Output Area (oa)	202407_fixed_performance_oa_r01.csv	229,770	11 MB

We only include output areas with speed information for at least five lines.

The table below provides a combined view of the fields in the different files. The second column shows in which files a field is present, referring to the levels in the above table (laua, pcon, and oa).

### Column headers and what they represent:

Field	In files (level)	Description
<b>laua</b>	laua	Local and Unitary Authority Code, such as S12000033
<b>laua_name</b>	laua	Local and Unitary Authority Name
<b>parl_const</b>	pcon	Parliamentary Constituency Code, such as N05000018
<b>parliamentary_constituency_name</b>	pcon	Parliamentary Constituency Name
<b>output_area</b>	oa	Census Output Area, such as W00010697
<b>Average max download speed (Mbit/s) for lines &lt;10Mbit/s</b>	All	Average maximum download speed (in Mbit/s) across all connections that deliver a maximum download speed of less than 10 Mbit/s

Field	In files (level)	Description
<b>Average max download speed (Mbit/s) for lines [X]&lt;[Y]Mbit/s<sup>1</sup></b>	All	Average maximum download speed (in Mbit/s) across all connections that deliver a maximum download speed of at least X but less than Y Mbit/s, with (X, Y) = (10, 30), (30, 100), (100, 300) or (300, 900)
<b>Average max download speed (Mbit/s) for lines &gt;=900Mbit/s</b>	All	Average maximum download speed (in Mbit/s) across all connections that deliver a maximum download speed of at least 900 Mbit/s
<b>Average max upload speed (Mbit/s) for lines &lt;10Mbit/s</b>	All	Average maximum upload speed (in Mbit/s) over all connections that deliver a maximum download speed less than 10 Mbit/s
<b>Average max upload speed (Mbit/s) for lines [X]&lt;[Y]Mbit/s<sup>2</sup></b>	All	Average maximum upload speed (in Mbit/s) across all connections that deliver a maximum download speed of at least X but less than Y Mbit/s, with (X, Y) = (10, 30), (30, 100), (100, 300) or (300, 900)
<b>Average max download speed (Mbit/s) for lines &gt;=900Mbit/s</b>	All	Average maximum upload speed (in Mbit/s) across all connections that deliver a maximum download speed of at least 900 Mbit/s
<b>Average monthly data usage (GB) per connection (all technologies)</b>	laua	Average monthly data usage (download plus upload, in GB) across all fixed broadband connections (using any technology)
<b>Average monthly data usage (GB) per full-fibre connection</b>	laua	Average monthly data usage (download plus upload, in GB) across all full-fibre connections
<b>Full-fibre take-up (% of full-fibre coverage)</b>	laua	Take-up of broadband services on full-fibre networks as a percentage of all premises with full-fibre coverage as per July 2024 (Notes 1 and 2)
<b>Full-fibre take-up (% of all premises)</b>	laua	Take-up of broadband services on full-fibre networks as a percentage of all premises in the local authority as per July 2024 (Note 1)

## Notes

1. The number of premises with full-fibre coverage and the total number of premises in the local authority as per July 2024 can be found in the accompanying data file on fixed coverage for local authorities (all premises).

<sup>1</sup> Average max download speeds rounded to one decimal for lines <10Mbit/s and 10<30Mbit/s, and to the nearest integer for the other speed ranges.

<sup>2</sup> Average max upload speeds rounded to one decimal for lines <10Mbit/s, 10<30Mbit/s and 30<100Mbit/s, and to the nearest integer for the other speed ranges.

2. For some local authorities, full-fibre take-up as a percentage of full-fibre coverage has decreased since last year. This reflects a greater increase in full-fibre coverage than in take-up, as the number of active lines has increased in all these local authorities. When full fibre is rolled out, it may take a while before consumers become aware of availability or they may need to wait until their existing service contract ends before they can migrate to a new service (see also Table 2.5 in the main Connected Nations 2024 report).