

About this data: Postcode unit area

To create our [Connected Nations Report](https://www.ofcom.org.uk/research-and-data/multi-sector-research/infrastructure-research/connected-nations-2019) (https://www.ofcom.org.uk/research-and-data/multi-sector-research/infrastructure-research/connected-nations-2019) Ofcom collected and analysed data from fixed telecoms operators. This file contains broadband coverage availability and performance data from operators. The availability data also includes coverage information provided by alternative network providers. Further information can be found in the [Connected Nations Methodology](https://www.ofcom.org.uk/research-and-data/multi-sector-research/infrastructure-research/connected-nations-2019/methodology) (https://www.ofcom.org.uk/research-and-data/multi-sector-research/infrastructure-research/connected-nations-2019/methodology).

The coverage availability was collected as a snapshot in September 2019. The previous May 2018 data set is available at <https://www.ofcom.org.uk/research-and-data/multi-sector-research/infrastructure-research/connected-nations-update-summer-2019>. Coverage from Relish (owned by Three) has been excluded. New FWA provision has been included.

The definition for full fibre coverage has been changed. From Sept 2018 it represents where the network has been rolled out to a “lead-in” that will serve the consumer end premise and where the consumer would expect to pay a standard installation charge for that connection.

The performance data was collected as a snapshot in May 2019 and includes information based on the number of connections providing an active broadband service, as opposed to individual premises.

Due to variations in broadband performance over time, the file should not be regarded as a definitive and fixed view of the UK's fixed broadband infrastructure. However, the information provided in this file may be useful in identifying variations in broadband availability.

As a result of the different timing points for these data sets, the files have now been split into coverage availability and performance.

If you have any questions or feedback on the data please contact us at open.data@ofcom.org.uk.

We are providing this data on an open basis via the [Open Government Licence](https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/) (https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/) 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.

Coverage availability

File name: 201909_fixed_pc_coverage_r01_xx.csv where xx defines Postcode area

Total files in folder 201909_fixed_pc_coverage_r01: 121 files, for each postcode area in the UK

Total records across all files: 1 header row, 1,672,688 data rows

File size on disk: 150 MB (157,798,400 bytes)

Coverage availability for residential premises

File name: 201909_fixed_pc_res_coverage_r01_xx.csv where xx defines Postcode area

Total files in folder 201909_fixed_pc_res_coverage_r01: 121 files, for each postcode area in the UK

Total records across all files: 1 header row, 1,544,838 data rows

File size on disk: 139 MB (145,858,560 bytes)

Column headers and what they represent:

Current headers	Note
postcode	Postcode with spaces removed, such as SE19HA
postcode_spaces	Postcode with single space, such as SE1 9HA
postcode area	Postcode area, such as SE
SFBB availability (% premises)	Percentage of premises that have Superfast Broadband (30Mbit/s or greater) coverage from fixed broadband
UFBB availability (% premises)	Percentage of premises that have Ultrafast Broadband (300Mbit/s or greater) coverage from fixed broadband
Full Fibre availability (% premises)	Percentage of premises that have coverage from a full fibre service from fixed broadband
% of premises unable to receive 2Mbit/s	Percentage of premises that do not have access to services above 2Mbit/s from fixed broadband
% of premises unable to receive 5Mbit/s	Percentage of premises that do not have access to services above 5Mbit/s from fixed broadband
% of premises unable to receive 10Mbit/s	Percentage of premises that do not have access to services above 10Mbit/s from fixed broadband

Current headers	Note
% of premises unable to receive 30Mbit/s	Percentage of premises that do not have access to services above 30Mbit/s from fixed broadband
% of premises below the USO	Percentage of premises that do not have access to download speeds at or above 10Mbit/s and upload speeds at or above 1Mbit/s including non-matched records and zero predicted speeds from fixed broadband, WISPs and EE FWA
% of premises with NGA	Percentage of premises with Next Generation Access from fixed broadband
% of premises able to receive decent broadband from FWA	Percentage of premises with Decent Broadband from WISPs
% of premises able to receive SFBB from FWA	Percentage of premises with Superfast Broadband (30Mbit/s or above) from WISPs
% of premises with 30<300Mbit/s download speed	From fixed broadband
% of premises with >=300Mbit/s download speed	From fixed broadband
% of premises with 0<2Mbit/s download speed	From fixed broadband
% of premises with 2<5Mbit/s download speed	From fixed broadband
% of premises with 5<10Mbit/s download speed	From fixed broadband
% of premises with 10<30Mbit/s download speed	From fixed broadband

Performance data

Due to privacy concerns we have not presented the information in postcodes with less than four broadband connections. Where we have excluded the data for this reason, we have substituted the data with a null value.

File name: 201905_fixed_pc_performance_r01_xx.csv where xx defines Postcode area

Total files in folder 201905_fixed_pc_coverage_r01: 121 files, for each postcode area in the UK

Total records across all files: 1 header row, 1,181,007 data rows

File size on disk (uncompressed): 133 MB (139,571,200 bytes)

Column headers and what they represent:

Current headers	Note
postcode	Postcode with spaces removed, such as SE19HA
postcode_spaces	Postcode with single space, such as SE1 9HA
postcode area	Postcode area, such as SE
Median download speed (Mbit/s)	Median download speed (in Mbit/s) of all connections
Average download speed (Mbit/s)	Average download speed (in Mbit/s) of all connections
Maximum download speed (Mbit/s)	Maximum download speed (in Mbit/s) of all connections
Average download speed (Mbit/s) for lines < 10Mbit/s	Average download speed (in Mbit/s) of all connections that deliver speed less than 10Mbit/s
Average download speed (Mbit/s) for lines 10<30Mbit/s	Average download speed (in Mbit/s) of all connections that deliver speeds of 10Mbit/s or higher and less than 30Mbit/s
Average download speed (Mbit/s) for lines 30<300Mbit/s	Average download speed (in Mbit/s) of all connections that deliver speeds of 30Mbit/s to less than 300Mbit/s
Average download speed (Mbit/s) for UFBB lines	Average download speed (in Mbit/s) of all connections that deliver speeds of 300Mbit/s or greater
Average download speed (Mbit/s) for SFBB lines	Average download speed (in Mbit/s) of all connections that deliver speeds of 30Mbit/s or greater
Median upload speed (Mbit/s)	Median upload speed (in Mbit/s) of all connections
Average upload speed (Mbit/s)	Average upload speed (in Mbit/s) of all connections
Maximum upload speed (Mbit/s)	Maximum upload speed (in Mbit/s) of all connections

Fixed postcode unit data

Average upload speed (Mbit/s) for lines < 10Mbit/s	Average upload speed (in Mbit/s) of all connections that deliver speed less than 10Mbit/s
Average upload speed (Mbit/s) for lines 10<30Mbit/s	Average upload speed (in Mbit/s) of all connections that deliver speed less than 30Mbit/s
Average upload speed (Mbit/s) for lines 30<300Mbit/s	Average upload speed (in Mbit/s) of all connections that deliver speed of 30Mbit/s to less than 300Mbit/s
Average upload speed (Mbit/s) for UFBB lines	Average upload speed (in Mbit/s) of all connections that deliver speeds of 300Mbit/s or greater
Average upload speed (Mbit/s) for SFBB lines	Average upload speed (in Mbit/s) of all connections that deliver speeds of 30Mbit/s or greater
Number of connections < 2 Mbit/s (number of lines)	Count of connections that have average measured speeds below 2Mbit/s
Number of connections 2<5 Mbit/s (number of lines)	Count of connections that have average measured speeds of 2Mbit/s or greater and below 5Mbit/s
Number of connections 5<10 Mbit/s (number of lines)	Count of connections that have average measured speeds of 5Mbit/s or greater and below 10Mbit/s
Number of connections 10<30 Mbit/s (number of lines)	Count of connections that have average measured speeds of 10Mbit/s or greater and below 30Mbit/s
Number of connections 30<300 Mbit/s (number of lines)	Count of connections that have average measured speeds of 30Mbit/s or greater and below 300Mbit/s
Number of connections >= 300 Mbit/s (number of lines)	Count of connections that have average measured speeds of 300Mbit/s or greater
Number of connections >= 30 Mbit/s (number of lines)	Count of connections that have average measured speeds of 30Mbit/s or greater
Median data usage (GB)	Median data usage, download and upload, in GB of all connections
Average data usage (GB)	Average data usage, download and upload, in GB of all connections
Average data usage (GB) for lines < 10Mbit/s	Average data usage, download and upload, in GB of all connections that deliver speed less than 10Mbit/s

Fixed postcode unit data

Average data usage (GB) for lines 10<30Mbit/s	Average data usage, download and upload, in GB of all connections that deliver speed less than 30Mbit/s
Average data usage (GB) for lines 30<300Mbit/s	Average data usage, download and upload, in GB of all connections that deliver speed of 30Mbit/s and higher and less than 300Mbit/s
Average data usage (GB) for SFBB lines	Average data usage, download and upload, in GB of all connections that deliver speeds of 30Mbit/s or greater
Average data usage (GB) for UFBB lines	Average data usage, download and upload, in GB of all connections that deliver speeds of 300Mbit/s or greater