

About this data: 2011 Census Output area

To create our [Connected Nations Report](https://www.ofcom.org.uk/research-and-data/multi-sector-research/infrastructure-research/connected-nations-2018/main-report) (https://www.ofcom.org.uk/research-and-data/multi-sector-research/infrastructure-research/connected-nations-2018/main-report) 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-2018/methodology) (https://www.ofcom.org.uk/research-and-data/multi-sector-research/infrastructure-research/connected-nations-2018/methodology).

The coverage availability was collected as a snapshot in Sept 2018. The previous [May 2018 data set](https://www.ofcom.org.uk/research-and-data/multi-sector-research/infrastructure-research/connected-nations-update-2018-october) is available at https://www.ofcom.org.uk/research-and-data/multi-sector-research/infrastructure-research/connected-nations-update-2018-october. Coverage from Relish (owned by Three) has been excluded in Sept 2018 whilst Ofcom moves to a consistent assessment of FWA coverage. 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 2018 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.

Revision note

5 March 2019: Correction to minimum speed measures and the calculation of connections in performance data set.

Coverage availability

File name: 201809_fixed_oa11_coverage_r01.csv

Total records in file: 1 header row, 231,922 data rows

File size on disk: 20.5 MB (21,508,096 bytes)

Column headers and what they represent:

Current headers	Note
OA11	Output Area Codes, such as E00000001
All premises	Count of all premises, in scope, based on Ordnance Survey AddressBase® Premium Epoch 60
All matched premises	Count of all premises matched to operator records with a non-zero recorded coverage. Unmatched premises are unclassified
SFBB availability (% premises)	Percentage of premises that have Superfast Broadband (30Mbit/s to less than 300Mbit/s) coverage
UFBB availability (% premises)	Percentage of premises that have Ultrafast Broadband (300Mbit/s or greater) coverage
Full Fibre availability (% premises)	Percentage of premises that have coverage from a full fibre service
% of premises unable to receive 2Mbit/s	Percentage of premises that do not have access to services above 2Mbit/s
% of premises unable to receive 5Mbit/s	Percentage of premises that do not have access to services above 5Mbit/s
% of premises unable to receive 10Mbit/s	Percentage of premises that do not have access to services above 10Mbit/s
% of premises unable to receive 30Mbit/s	Percentage of premises that do not have access to services above 30Mbit/s
% 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

Current headers	Note
% of premises with NGA	Percentage of premises with Next Generation Access
% of premises able to receive decent broadband from FWA	Percentage of premises with Decent Broadband from Fixed Wireless Access provision
% of premises able to receive SFBB from FWA	Percentage of premises with Superfast Broadband (30Mbit/s or above) from Fixed Wireless Access provision
Number of premises with SFBB availability	Number of premises that have Superfast Broadband (30Mbit/s to less than 300Mbit/s) coverage
Number of premises with UFBB availability	Number of premises that have Ultrafast Broadband (300Mbit/s or greater) coverage
Number of premises with Full Fibre availability	Number of premises that have coverage from a full fibre service
Number of premises unable to receive 2Mbit/s	Number of premises that do not have access to services above 2Mbit/s
Number of premises unable to receive 5Mbit/s	Number of premises that do not have access to services above 5Mbit/s
Number of premises unable to receive 10Mbit/s	Number of premises that do not have access to services above 10Mbit/s
Number of premises unable to receive 30Mbit/s	Number of premises that do not have access to services above 30Mbit/s
Number of premises below the USO	Number 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
Number of premises with NGA	Number of premises with Next Generation Access
Number of premises with decent broadband from FWA	Number of premises with Decent Broadband from Fixed Wireless Access provision
Number of premises with SFBB from FWA	Number of premises with Superfast Broadband (30Mbit/s or above) from Fixed Wireless Access provision

Performance data

Due to privacy concerns we have not presented the information in areas 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: 201805_fixed_oa11_performance_r02.csv

Total records in file: 1 header row, 231,909 data rows

File size on disk: 24.4 MB (25,628,672 bytes)

Column headers and what they represent:

Current headers	Note
oa11	Output Area Codes, such as E00000001
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
Minimum download speed (Mbit/s)	Minimum download speed (in Mbit/s) of all connections To Be Removed in 2019
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 SFBB lines	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

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
Minimum upload speed (Mbit/s)	Minimum upload speed (in Mbit/s) of all connections To Be Removed in 2019
Maximum upload speed (Mbit/s)	Maximum upload speed (in Mbit/s) of all connections
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 SFBB lines	Average upload speed (in Mbit/s) of all connections that deliver speeds 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
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

Fixed 2011 census output area data

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
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 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