About this data: Mobile Parliamentary Constituency 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) Ofcom collected and analysed data from all the mobile network operators. This file contains mobile network coverage information from the operators. 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).

The coverage availability was collected as a snapshot in Sept 2018.

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

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/) 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: 201809_mobile_pcon_r01.csv

Total records in file: 1 header row, 650 data rows

File size on disk: 356 KB (364,544 bytes)

Column headers and what they represent:

Field	Label	Note
parl_const	Parliamentary Constituency	Parliamentary Constituency Codes, such as E14000530
parl_const_name	Parliamentary Constituency name	Parliamentary Constituency Names
2G_prem_out_0	2G services, premises (outdoor): no reliable signal (%)	Threshold:-81dBm
2G_prem_out_1	2G services, premises (outdoor): signal from 1 operator (%)	Threshold:-81dBm
2G_prem_out_2	2G services, premises (outdoor): signal from 2 operators (%)	Threshold:-81dBm
2G_prem_out_3	2G services, premises (outdoor): signal from all operators (%)	Threshold:-81dBm
2G_prem_in_0	2G services, premises (indoor): no reliable signal (%)	Threshold:-71dBm
2G_prem_in_1	2G services, premises (indoor): signal from 1 operator (%)	Threshold:-71dBm
2G_prem_in_2	2G services, premises (indoor): signal from 2 operators (%)	Threshold:-71dBm
2G_prem_in_3	2G services, premises (indoor): signal from all operators (%)	Threshold:-71dBm
2G_geo_out_0	2G services, geographic (outdoor): no reliable signal (%)	Threshold:-81dBm

2G_geo_out_1	2G services, geographic (outdoor): signal from 1 operator (%)	Threshold:-81dBm
2G_geo_out_2	2G services, geographic (outdoor): signal from 2 operators (%)	Threshold:-81dBm
2G_geo_out_3	2G services, geographic (outdoor): signal from all operators (%)	Threshold:-81dBm
2G_abrd_in_0	2G services, roads: no reliable signal (%)	Threshold:-71dBm
2G_abrd_in_1	2G services, roads: signal from 1 operator (%)	Threshold:-71dBm
2G_abrd_in_2	2G services, roads: signal from 2 operators (%)	Threshold:-71dBm
2G_abrd_in_3	2G services, roads: signal from all operators (%)	Threshold:-71dBm
2G_mway_in_0	2G services, motorways: no reliable signal (%)	Threshold:-71dBm
2G_mway_in_1	2G services, motorways: signal from 1 operator (%)	Threshold:-71dBm
2G_mway_in_2	2G services, motorways: signal from 2 operators (%)	Threshold:-71dBm
2G_mway _in_3	2G services, motorways: signal from all operators (%)	Threshold:-71dBm
3G_prem_out_0	3G services, premises (outdoor): no reliable signal (%)	Threshold:-100dBm
3G_prem_out_1	3G services, premises (outdoor): signal from 1 operator (%)	Threshold:-100dBm
3G_prem_out_2	3G services, premises (outdoor): signal from 2 operators (%)	Threshold:-100dBm
3G_prem_out_3	3G services, premises (outdoor): signal from 3 operators (%)	Threshold:-100dBm
3G_prem_out_4	3G services, premises (outdoor): signal from all operators (%)	Threshold:-100dBm

3G_prem_in_0	3G services, premises (indoor): no reliable signal (%)	Threshold:-90dBm
3G_prem_in_1	3G services, premises (indoor): signal from 1 operator (%)	Threshold:-90dBm
3G_prem_in_2	3G services, premises (indoor): signal from 2 operators (%)	Threshold:-90dBm
3G_prem_in_3	3G services, premises (indoor): signal from 3 operators (%)	Threshold:-90dBm
3G_prem_in_4	3G services, premises (indoor): signal from all operators (%)	Threshold:-90dBm
3G_geo_out_0	3G services, geographic (outdoor): no reliable signal (%)	Threshold:-100dBm
3G_geo_out_1	3G services, geographic (outdoor): signal from 1 operator (%)	Threshold:-100dBm
3G_geo_out_2	3G services, geographic (outdoor): signal from 2 operators (%)	Threshold:-100dBm
3G_geo_out_3	3G services, geographic (outdoor): signal from 3 operators (%)	Threshold:-100dBm
3G_geo_out_4	3G services, geographic (outdoor): signal from all operators (%)	Threshold:-100dBm
3G_abrd_in_0	3G services, roads: no reliable signal (%)	Threshold:-90dBm
3G_abrd_in_1	3G services, roads: signal from 1 operator (%)	Threshold:-90dBm
3G_abrd_in_2	3G services, roads: signal from 2 operators (%)	Threshold:-90dBm
3G_abrd_in_3	3G services, roads: signal from 3 operators (%)	Threshold:-90dBm
3G_abrd_in_4	3G services, roads: signal from all operators (%)	Threshold:-90dBm
3G_mway_in_0	3G services, motorways: no reliable signal (%)	Threshold:-90dBm

3G_mway_in_1	3G services, motorways: signal from 1 operator (%)	Threshold:-90dBm
3G_mway_in_2	3G services, motorways: signal from 2 operators (%)	Threshold:-90dBm
3G_mway _in_3	3G services, motorways: signal from 3 operators (%)	Threshold:-90dBm
3G_mway _in_4	3G services, motorways: signal from all operators (%)	Threshold:-90dBm
4G_prem_out_0	4G services, premises (outdoor): no reliable signal (%)	Threshold:-105dBm
4G_prem_out_1	4G services, premises (outdoor): signal from 1 operator (%)	Threshold:-105dBm
4G_prem_out_2	4G services, premises (outdoor): signal from 2 operators (%)	Threshold:-105dBm
4G_prem_out_3	4G services, premises (outdoor): signal from 3 operators (%)	Threshold:-105dBm
4G_prem_out_4	4G services, premises (outdoor): signal from all operators (%)	Threshold:-105dBm
4G_prem_in_0	4G services, geographic (indoor): no reliable signal (%)	Threshold:-95dBm
4G_prem_in_1	4G services, geographic (indoor): signal from 1 operator (%)	Threshold:-95dBm
4G_prem_in_2	4G services, geographic (indoor): signal from 2 operators (%)	Threshold:-95dBm
4G_prem_in_3	4G services, geographic (indoor): signal from 3 operators (%)	Threshold:-95dBm
4G_prem_in_4	4G services, geographic (indoor): signal from all operators (%)	Threshold:-95dBm
4G_geo_out_0	4G services, geographic (outdoor): no reliable signal (%)	Threshold:-105dBm
4G_geo_out_1	4G services, geographic (outdoor): signal from 1 operator (%)	Threshold:-105dBm

4G_geo_out_2	4G services, geographic (outdoor): signal from 2 operators (%)	Threshold:-105dBm
4G_geo_out_3	4G services, geographic (outdoor): signal from 3 operators (%)	Threshold:-105dBm
4G_geo_out_4	4G services, geographic (outdoor): signal from all operators (%)	Threshold:-105dBm
4G_abrd_in_0	4G services, roads: no reliable signal (%)	Threshold:-95dBm
4G_abrd_in_1	4G services, roads: signal from 1 operator (%)	Threshold:-95dBm
4G_abrd_in_2	4G services, roads: signal from 2 operators (%)	Threshold:-95dBm
4G_abrd_in_3	4G services, roads: signal from 3 operators (%)	Threshold:-95dBm
4G_abrd_in_4	4G services, roads: signal from all operators (%)	Threshold:-95dBm
4G_mway_in_0	4G services, motorways: no reliable signal (%)	Threshold:-95dBm
4G_mway_in_1	4G services, motorways: signal from 1 operator (%)	Threshold:-95dBm
4G_mway_in_2	4G services, motorways: signal from 2 operators (%)	Threshold:-95dBm
4G_mway _in_3	4G services, motorways: signal from 3 operators (%)	Threshold:-95dBm
4G_mway _in_4	4G services, motorways: signal from all operators (%)	Threshold:-95dBm
Voice_prem_out_0	Voice services, premises (outdoor): no reliable signal (%)	See below for 2G, 3G, 4G threshold levels
Voice_prem_out_1	Voice services, premises (outdoor): signal from 1 operator (%)	See below for 2G, 3G, 4G threshold levels
Voice_prem_out_2	Voice services, premises (outdoor): signal from 2 operators (%)	See below for 2G, 3G, 4G threshold levels

Voice_prem_out_3	Voice services, premises (outdoor): signal from 3 operators (%)	See below for 2G, 3G, 4G threshold levels
Voice_prem_out_4	Voice services, premises (outdoor): signal from all operators (%)	See below for 2G, 3G, 4G threshold levels
Voice_prem_in_0	Voice services, geographic (indoor): no reliable signal (%)	See below for 2G, 3G, 4G threshold levels
Voice_prem_in_1	Voice services, geographic (indoor): signal from 1 operator (%)	See below for 2G, 3G, 4G threshold levels
Voice_prem_in_2	Voice services, geographic (indoor): signal from 2 operators (%)	See below for 2G, 3G, 4G threshold levels
Voice_prem_in_3	Voice services, geographic (indoor): signal from 3 operators (%)	See below for 2G, 3G, 4G threshold levels
Voice_prem_in_4	Voice services, geographic (indoor): signal from all operators (%)	See below for 2G, 3G, 4G threshold levels
Voice_geo_out_0	Voice services, geographic (outdoor): no reliable signal (%)	See below for 2G, 3G, 4G threshold levels
Voice_geo_out_1	Voice services, geographic (outdoor): signal from 1 operator (%)	See below for 2G, 3G, 4G threshold levels
Voice_geo_out_2	Voice services, geographic (outdoor): signal from 2 operators (%)	See below for 2G, 3G, 4G threshold levels
Voice_geo_out_3	Voice services, geographic (outdoor): signal from 3 operators (%)	See below for 2G, 3G, 4G threshold levels
Voice_geo_out_4	Voice services, geographic (outdoor): signal from all operators (%)	See below for 2G, 3G, 4G threshold levels
Voice_abrd_in_0	Voice services, roads: no reliable signal (%)	See below for 2G, 3G, 4G threshold levels
Voice_abrd_in_1	Voice services, roads: signal from 1 operator (%)	See below for 2G, 3G, 4G threshold levels
Voice_abrd_in_2	Voice services, roads: signal from 2 operators (%)	See below for 2G, 3G, 4G threshold levels
Voice_abrd_in_3	Voice services, roads: signal from 3 operators (%)	See below for 2G, 3G, 4G threshold levels

Voice_abrd_in_4	Voice services, roads: signal from all operators (%)	See below for 2G, 3G, 4G threshold levels
Voice_mway_in_0	Voice services, motorways: no reliable signal (%)	See below for 2G, 3G, 4G threshold levels
Voice_mway_in_1	Voice services, motorways: signal from 1 operator (%)	See below for 2G, 3G, 4G threshold levels
Voice_mway_in_2	Voice services, motorways: signal from 2 operators (%)	See below for 2G, 3G, 4G threshold levels
Voice_mway _in_3	Voice services, motorways: signal from 3 operators (%)	See below for 2G, 3G, 4G threshold levels
Voice_mway _in_4	Voice services, motorways: signal from all operators (%)	See below for 2G, 3G, 4G threshold levels
Data_prem_out_0	Data services, premises (outdoor): no reliable signal (%)	See below for 3G, 4G threshold levels
Data_prem_out_1	Data services, premises (outdoor): signal from 1 operator (%)	See below for 3G, 4G threshold levels
Data_prem_out_2	Data services, premises (outdoor): signal from 2 operators (%)	See below for 3G, 4G threshold levels
Data_prem_out_3	Data services, premises (outdoor): signal from 3 operators (%)	See below for 3G, 4G threshold levels
Data_prem_out_4	Data services, premises (outdoor): signal from all operators (%)	See below for 3G, 4G threshold levels
Data_prem_in_0	Data services, geographic (indoor): no reliable signal (%)	See below for 3G, 4G threshold levels
Data_prem_in_1	Data services, geographic (indoor): signal from 1 operator (%)	See below for 3G, 4G threshold levels
Data_prem_in_2	Data services, geographic (indoor): signal from 2 operators (%)	See below for 3G, 4G threshold levels
Data_prem_in_3	Data services, geographic (indoor): signal from 3 operators (%)	See below for 3G, 4G threshold levels
Data_prem_in_4	Data services, geographic (indoor): signal from all operators (%)	See below for 3G, 4G threshold levels

Data_geo_out_0	Data services, geographic (outdoor): no reliable signal (%)	See below for 3G, 4G threshold levels
Data_geo_out_1	Data services, geographic (outdoor): signal from 1 operator (%)	See below for 3G, 4G threshold levels
Data_geo_out_2	Data services, geographic (outdoor): signal from 2 operators (%)	See below for 3G, 4G threshold levels
Data_geo_out_3	Data services, geographic (outdoor): signal from 3 operators (%)	See below for 3G, 4G threshold levels
Data_geo_out_4	Data services, geographic (outdoor): signal from all operators (%)	See below for 3G, 4G threshold levels
Data_abrd_in_0	Data services, roads: no reliable signal (%)	See below for 3G, 4G threshold levels
Data_abrd_in_1	Data services, roads: signal from 1 operator (%)	See below for 3G, 4G threshold levels
Data_abrd_in_2	Data services, roads: signal from 2 operators (%)	See below for 3G, 4G threshold levels
Data_abrd_in_3	Data services, roads: signal from 3 operators (%)	See below for 3G, 4G threshold levels
Data_abrd_in_4	Data services, roads: signal from all operators (%)	See below for 3G, 4G threshold levels
Data_mway_in_0	Data services, motorways: no reliable signal (%)	See below for 3G, 4G threshold levels
Data_mway_in_1	Data services, motorways: signal from 1 operator (%)	See below for 3G, 4G threshold levels
Data_mway_in_2	Data services, motorways: signal from 2 operators (%)	See below for 3G, 4G threshold levels
Data_mway_in_3	Data services, motorways: signal from 3 operators (%)	See below for 3G, 4G threshold levels
Data_mway_in_4	Voice services, motorways: signal from all operators (%)	See below for 3G, 4G threshold levels
2G_mway_ard_in_0	2G services, motorways and A-roads: no reliable signal (%)	Threshold:-71dBm

2G_mway_ard_in_1	2G services, motorways and A-roads: signal from 1 operator (%)	Threshold:-71dBm
2G_mway_ard_in_2	2G services, motorways and A-roads: signal from 2 operators (%)	Threshold:-71dBm
2G_mway_ard_in_3	2G services, motorways and A-roads: signal from all operators (%)	Threshold:-71dBm
3G_mway_ard_in_0	3G services, motorways and A-roads: no reliable signal (%)	Threshold:-90dBm
3G_mway_ard_in_1	3G services, motorways and A-roads: signal from 1 operator (%)	Threshold:-90dBm
3G_mway_ard_in_2	3G services, motorways and A-roads: signal from 2 operators (%)	Threshold:-90dBm
3G_mway_ard_in_3	3G services, motorways and A-roads: signal from 3 operators (%)	Threshold:-90dBm
3G_mway_ard_in_4	3G services, motorways and A-roads: signal from all operators (%)	Threshold:-90dBm
4G_mway_ard_in_0	4G services, motorways and A-roads: no reliable signal (%)	Threshold:-95dBm
4G_mway_ard_in_1	4G services, motorways and A-roads: signal from 1 operator (%)	Threshold:-95dBm
4G_mway_ard_in_2	4G services, motorways and A-roads: signal from 2 operators (%)	Threshold:-95dBm
4G_mway_ard_in_3	4G services, motorways and A-roads: signal from 3 operators (%)	Threshold:-95dBm
4G_mway_ard_in_4	4G services, motorways and A-roads: signal from all operators (%)	Threshold:-95dBm
Voice_mway_ard_in_0	Voice services, motorways and A-roads: no reliable signal (%)	See below for 2G, 3G, 4G threshold levels
Voice_mway_ard_in_1	Voice services, motorways and A-roads: signal from 1 operator (%)	See below for 2G, 3G, 4G threshold levels
Voice_mway_ard_in_2	Voice services, motorways and A-roads: signal from 2 operators (%)	See below for 2G, 3G, 4G threshold levels

Voice_mway_ard_in_3	Voice services, motorways and A-roads: signal from 3 operators (%)	See below for 2G, 3G, 4G threshold levels
Voice_mway_ard_in_4	Voice services, motorways and A-roads: signal from all operators (%)	See below for 2G, 3G, 4G threshold levels
Data_mway_ard_in_0	Data services, motorways and A-roads: no reliable signal (%)	See below for 3G, 4G threshold levels
Data_mway_ard_in_1	Data services, motorways and A-roads: signal from 1 operator (%)	See below for 3G, 4G threshold levels
Data_mway_ard_in_2	Data services, motorways and A-roads: signal from 2 operators (%)	See below for 3G, 4G threshold levels
Data_mway_ard_in_3	Data services, motorways and A-roads: signal from 3 operators (%)	See below for 3G, 4G threshold levels
Data_mway_ard_in_4	Data services, motorways and A-roads: signal from all operators (%)	See below for 3G, 4G threshold levels

Signal Thresholds

We use the following signal strength thresholds when estimating coverage:

Service		Metric	Outdoor	Indoor and in-car
2G		RxLev	-81dBm	-71dBm
3G		RSCP CPiCH	-100dBm	-90dBm
4G Voice		RSRP	-105dBm	-95dBm
4G Data		RSRP	-115dBm	-105dBm
Voice:	2G	RxLev	-81dBm	-71dBm
	3G	RSCP CPiCH	-100dBm	-90dBm
	4G	RSRP	-105dBm	-95dBm
Data:	3G	RSCP CPiCH	-100dBm	-90dBm
	4G	RSRP	-115dBm	-105dBm