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Radon in Homes in Wales: 2016 Data Report

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Public Health England
133–155 Waterloo Road
Wellington House
London SE1 8UG
T: 020 7654 8000

www.gov.uk/phe

Twitter: [@PHE_uk](https://twitter.com/PHE_uk)

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Any enquiries regarding this publication should be sent to:

Centre for Radiation, Chemical and Environmental Hazards
Public Health England
Chilton, Didcot, Oxfordshire OX11 0RQ
E: publications@phe.gov.uk

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Radon in Homes in Wales: 2016 Data Report

Miller C A, Rees D M

Abstract

This report provides a summary of just over 18,400 radon measurements made in homes in Wales between 1982 and 2015. It updates the previous data review published in 2011 and complements the radon atlas of England and Wales which was published in 2007. Results are displayed in summary tables for a range of administrative areas, postcodes and NHS bodies and are accompanied by a short descriptive text.

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1 Introduction

Radon is a naturally occurring radioactive gas that is present in all homes and is the major source of ionising radiation exposure to the UK population. Where high levels are found, a radon Action Level (200 Bq m⁻³) is used to advise householders on the need to take remedial action in the home. For further information about the sources and properties of radon, its health effects and the UK control strategy, please consult either the general Public Health England (PHE) website www.gov.uk/government/organisations/public-health-england or the dedicated PHE radon website at www.ukradon.org.

This report summarises and presents the data that PHE holds from just over 18,400 radon measurements conducted in homes in Wales in the period between 1982 and 2015. Results are presented in tabular format to illustrate the range and distribution of radon levels in local Government administrative areas down to electoral ward. Results are also presented using the postcode system down to sector level and by NHS Health Board. To preserve confidentiality, results are not reported when there are fewer than five measurements in the grouping.

This report complements the indicative atlas of England and Wales (Miles et al, 2007) which shows the radon potential in map format and it updates and replaces the data tables contained within the previous result summary (Rees et al, 2011).

2 Measurements

Radon measurements are normally made with two passive integrating detectors in each home - one in the main living area and the other in a regularly used bedroom. This reflects the parts of the home that are most occupied. The detectors are left in place for three months and the individual results combined by applying both occupancy ratios to reflect typical occupancy patterns and seasonal correction factors to reflect typical seasonal variations in radon levels (Miles and Howarth, 2008) thereby giving an estimate of the annual average for exposure from radon in the individual home. In some homes multiple measurements have been recorded, for example when radon remedial works are undertaken. Throughout this report only the earliest valid measurement for an address is used. The results rely on the householder placing the detectors in accordance with our instructions.

The measurement results contained within this report have been collected from various measurement programmes conducted by PHE (and previously HPA and NRPB) from 1982 through to 2015. These surveys were undertaken with the aim of finding homes with high radon levels within the radon affected areas identified through the publication of radon maps (NRPB (1996), Lomas et al (1998), Green et al (2002), Miles et al (2007)). These surveys were not designed to be statistically representative of large areas. To date only one fully representative UK survey has been undertaken. That national survey (Wrixon et al, 1988) was designed to obtain a population weighted sample of results throughout the UK. The results from that survey remain the best estimate of the average domestic radon exposure for Wales.

Within previously published reports, result summaries were prepared alongside radon maps and due to positional uncertainties a small number of results were excluded from the mapping and the associated data. That constraint is not present in this report and therefore allows a more comprehensive summary of the results than in previous publications. Due to data cleaning some results that have appeared in previous reports are no longer contained within this report as information now available indicates that the measurement is invalid.

3 Results

Tables 1 to 7 show the number and distribution of radon measurements in homes grouped by three different boundary systems relating to local authorities, postcodes and NHS bodies.

The tables show

- The total number of homes in the area
- How many homes in the area have PHE radon measurements
- The arithmetic and geometric average of the measured radon levels in the area
- The highest individual measurement in the area
- The number of homes measured at or above the Action Level in the area

The data is available in digital format for download on the gov.uk website.

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Table 7 - Results in Wales by NHS health board

General notes

- In tables 1 - 7 the estimates of the number of addresses are derived from the Royal Mail[®] Postal Address File (PAF[®]). PAF also provides administrative and health authority information for each delivery point in Great Britain and Northern Ireland
- To avoid undue precision, all numbers other than averages have been rounded to two or three significant figures
- For tables 3, 5 and 6 only, where there are fewer than 5 results for a particular grouping the data are not presented. For this reason, the sum of the sub-totals for a set of constituent areas may be slightly less than the total for the aggregate data
- Royal Mail[®] postcodes have four parts and read from left to right, representing progressively smaller groups of addresses
- Postcodes have two elements (of two parts each) separated by a space

- The largest part (both in terms of geographical area and addresses) is the postcode area
- The postcode area is given the first one or two alphabetical letters of the postcode and refers to the post town (for example, CF for Cardiff).
- Postcode districts consist of the postcode area and the numbers that make up the first element of the full postcode. The postcode district of CF99 1NA would be CF99
- Postcode sectors consist of the postcode district together with the numerical part of the second element. The postcode sector of CF99 1NA would be CF99 1
- Neither postcode districts nor sectors are aligned to administrative boundaries. A single postcode district or sector may cover two or more local authorities or electoral wards
- There are eight postcode areas in Wales although all, apart from CF and SA, cross the border with England. Only addresses with a CH, HR, LD, LL, NP or SY postcode that lie in Wales have been included, addresses in England with these postcodes have been excluded. Postcode areas that lie mainly in England, and which have only very small numbers of addresses in Wales, have been excluded to preserve privacy

4 Conclusions

This report presents summary results of the distribution of measured radon levels in homes in Wales, grouped by various geographical areas. It complements the full radon probability dataset described elsewhere (Miles et al, 2007).

While the data in this report give the distribution of measured radon levels in different areas the results are biased towards measurements in targeted areas with higher radon probability. The probability of any address exceeding the Action Level is best assessed using the full radon probability dataset, accessible through www.ukradon.org. The actual level of radon at any specific address can only be determined through an appropriate radon measurement.

5 Acknowledgements

We wish to thank present and past members of the radon team at PHE and previously HPA and NRPB for all their efforts.

The data reported were collected during many surveys carried out on behalf of the government, local councils, landlords and individual householders.

6 References

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7 Glossary of terms

Averages. Within this report numerical data are presented in two ways: arithmetic average and geometric average. The arithmetic average is derived from summing the results by grouped unit then dividing by the number of results. The geometric average is the nth root of the product of n results.

Becquerel. Symbol Bq. The SI unit of radioactivity and measures the activity of a radionuclide transformation or decay. An activity of 1 becquerel denotes an activity of 1 nuclear transformation or decay per second.

Becquerel per cubic metre of air. Symbol Bq m⁻³. A quantity indicating the amount of radionuclide transformation in each cubic metre of air per second. Often referred to as the activity concentration.

Population-weighted average. The value obtained for the analysis of a sample selected in which each member of the population has an equal chance of inclusion in the sample. In the specific case of the UK National Radon Survey (Wrixon et al 1988), the population was every domestic address in the UK and a systematic sample was taken, ie every Nth address, from all domestic addresses listed in postcode order.

Radon Action Level. The activity concentration of radon in UK homes above which reduction is advised. Its value, expressed as the annual average radon gas concentration in the home, is 200 Bq m⁻³.

Radon Affected Areas. Parts of the country with a 1% or greater probability of present or future homes being at or above the Action Level.

8 Tabular data

Table 1 Summary data by home nation for the United Kingdom

Nation	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Population Weighted Average	
England	23,500,000	525,000	105	55	21	64,900
Northern Ireland	790,000	24,400	70	46	19	1,300
Scotland	2,570,000	27,900	58	28	16	1,400
Wales	1,400,000	18,400	90	51	20	1,900
UK Total	28,260,000	595,700	101	53	20	69,500

Table 2 Summary data for unitary authorities

Unitary Authority	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
Blaenau Gwent	32,700	33	20	11	82	0
Bridgend	63,100	140	53	33	590	5
Caerphilly	79,100	85	26	17	140	0
Cardiff	146,000	250	53	33	400	11
Carmarthenshire	85,700	890	80	46	1,900	56
Ceredigion	34,500	1,200	75	50	1,100	70
Conwy	55,800	870	67	42	1,400	49
Denbighshire	43,700	770	111	63	2,200	110
Flintshire	67,500	5,400	114	60	4,200	850
Gwynedd	60,300	820	53	36	560	20
Isle of Anglesey	34,700	1,200	107	58	2,100	160
Merthyr Tydfil	27,100	51	74	25	640	7
Monmouthshire	41,100	350	58	41	590	12
Neath Port Talbot	65,400	130	22	15	340	1
Newport	65,300	100	31	23	190	0
Pembrokeshire	61,100	1,900	107	67	1,400	250
Powys	64,000	2,500	76	48	1,700	180
Rhondda Cynon Taf	108,000	180	36	19	420	4
Swansea	111,000	210	53	29	630	11
Torfaen	41,100	50	26	17	120	0
Vale of Glamorgan	56,100	620	88	54	1,600	65
Wrexham	59,900	660	76	43	1,200	54

Table 3 Summary data by electoral ward (minimum 5 results)

Electoral Ward	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
Blaenau Gwent						
Rassau	1,500	5	19	11	64	0
Sirhowy	2,500	7	24	13	82	0
Bridgend						
Brackla	4,900	7	34	31	69	0
Bryntirion, Laleston and Merthyr Mawr	3,600	12	47	42	82	0
Hendre	1,700	5	9	8	17	0
Nottage	1,600	10	134	56	590	3
Oldcastle	2,200	6	25	21	56	0
Porthcawl East Central	1,600	6	56	38	160	0
Porthcawl West Central	1,800	34	50	36	210	1
Caerphilly						
Bedwas, Trethomas and Machen	4,600	10	40	27	140	0
Darren Valley	1,100	5	15	14	19	0
Penyrheol	5,100	5	38	23	120	0
Risca West	2,400	6	38	37	54	0
Cardiff						
Cathays	6,800	5	22	18	49	0
Creigiau/St. Fagans	2,000	19	56	37	150	0
Cyncoed	4,400	5	21	19	32	0
Ely	6,200	7	91	55	310	1
Fairwater	6,100	5	60	38	170	0
Heath	5,300	9	38	31	94	0
Lisvane	1,400	7	44	31	120	0
Llandaff	3,900	19	32	27	100	0
Llandaff North	3,500	5	56	44	140	0
Llanishen	7,700	17	33	24	130	0
Pentwyn	6,500	10	14	13	29	0
Pentyrch	1,400	17	76	42	300	2
Penylan	5,200	5	26	23	48	0
Plasnewydd	6,300	7	25	21	49	0
Radyr	2,700	29	52	34	220	1
Rhiwbina	5,200	9	59	51	130	0
Riverside	5,700	9	73	36	400	1
Splott	6,200	6	17	14	33	0
Whitchurch and Tongwynlais	7,400	32	108	77	370	6
Carmarthenshire						
Abergwili	1,000	38	130	89	550	7

Table 3 Summary data by electoral ward (minimum 5 results)

Electoral Ward	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
Bigyn	2,900	5	11	9	28	0
Carmarthen Town North	2,400	10	46	34	160	0
Carmarthen Town South	2,000	11	64	46	190	0
Carmarthen Town West	2,200	5	51	37	100	0
Cenarth	1,000	120	158	89	1,400	26
Cilycwm	690	31	65	43	530	1
Cynwyl Elfed	1,300	36	91	53	710	4
Cynwyl Gaeo	760	44	46	36	200	1
Glanamman	1,200	6	31	24	70	0
Glyn	1,000	5	45	19	150	0
Gorslas	2,100	8	21	14	65	0
Hendy	1,500	7	32	28	55	0
Hengoed	1,800	6	21	13	39	0
Kidwelly	1,700	5	55	37	130	0
Laugharne Township	1,300	31	78	48	540	3
Llanboidy	910	35	113	67	1,100	3
Llanddarog	900	17	35	31	62	0
Llandeilo	1,500	17	45	36	110	0
Llandovery	1,300	27	52	40	170	0
Llandybie	1,900	9	46	33	160	0
Llanegwad	1,100	35	60	43	180	0
Llanfihangel Aberbythych	800	10	38	31	110	0
Llanfihangel-Ar-Arth	1,300	54	71	55	240	1
Llangadog	900	34	40	33	100	0
Llangeler	1,600	48	164	72	1,900	6
Llangunnor	1,200	10	42	28	130	0
Llangyndeyrn	1,500	9	29	24	67	0
Llannon	2,400	14	53	26	280	1
Llansteffan	950	13	58	45	160	0
Llanybydder	1,300	20	54	40	170	0
Manordeilo and Salem	980	26	41	30	180	0
Pontyberem	1,300	6	46	40	68	0
St. Clears	1,400	8	35	32	60	0
St. Ishmael	1,300	19	40	31	98	0
Trelech	900	44	82	67	270	3
Trimsaran	1,200	5	14	13	23	0
Whitland	1,000	15	41	34	130	0
Ceredigion						
Aberaeron	830	6	38	30	87	0
Aberporth	1,200	20	48	43	98	0

Table 3 Summary data by electoral ward (minimum 5 results)

Electoral Ward	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
Aberteifi/Cardigan-Mwldan	920	5	37	24	84	0
Aberteifi/Cardigan-Rhyd-Y-Fuwch	650	5	37	34	53	0
Beulah	790	30	120	72	1,100	3
Borth	1,100	17	41	27	150	0
Capel Dewi	640	40	79	52	470	4
Ceulanamaesmawr	890	26	63	56	140	0
Ciliau Aeron	910	16	37	32	77	0
Faenor	1,100	15	42	29	190	0
Lampeter	1,100	14	25	20	53	0
Llanarth	740	12	59	37	210	1
Llandyfriog	870	240	79	52	730	21
Llandysilio-Gogo	990	23	69	49	290	1
Llandysul Town	710	9	65	57	130	0
Llanfarian	700	9	48	41	80	0
Llanfihangel Ystrad	990	25	48	38	150	0
Llangeitho	720	26	55	41	190	0
Llangybi	700	22	42	36	87	0
Llanrhystyd	690	26	57	47	170	0
Llansantffraed	1,100	20	52	38	170	0
Llanwenog	820	14	74	34	490	2
Lledrod	1,000	39	56	43	150	0
Melindwr	980	140	91	58	540	14
New Quay	760	13	58	42	140	0
Penbryn	1,100	28	71	51	270	2
Pen-Parc	1,200	28	67	47	310	2
Tirymynach	790	13	105	92	210	1
Trefeurig	760	82	72	57	240	1
Tregaron	660	10	61	54	120	0
Troedyraur	660	140	105	69	940	18
Ystwyth	890	25	65	48	180	0
Conwy						
Betws Yn Rhos	900	26	92	46	1,100	1
Betws-Y-Coed	720	29	64	51	210	1
Bryn	870	13	44	30	140	0
Caerhun	1,000	20	56	43	140	0
Colwyn	2,100	10	46	34	140	0
Conwy	2,200	19	76	45	520	1
Craig-Y-Don	1,700	5	42	28	77	0
Crwst	1,100	60	52	34	530	2
Deganwy	2,100	21	29	23	82	0
Eglwysbach	710	37	81	51	310	5
Eirias	1,700	15	26	22	62	0
Gele	2,300	34	44	34	140	0

Table 3 Summary data by electoral ward (minimum 5 results)

Electoral Ward	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
Glyn	2,100	7	65	48	150	0
Gogarth	1,900	8	41	34	81	0
Gower	520	83	62	47	410	2
Kinmel Bay	2,700	7	24	18	53	0
Llanddulas	770	22	96	61	360	4
Llandrillo Yn Rhos	3,900	28	50	37	240	1
Llangernyw	660	29	56	39	260	1
Llansanffraid	1,100	8	136	121	260	2
Llansannan	800	29	67	48	280	1
Llysfaen	1,100	42	75	48	370	3
Marl	2,100	10	27	22	60	0
Pandy	860	16	56	43	160	0
Pant-Yr-Afon/Penmaenan	1,400	7	57	47	140	0
Penrhyn	2,300	8	20	14	49	0
Pentre Mawr	1,800	8	16	15	30	0
Rhiw	3,000	26	42	33	170	0
Trefriw	670	140	114	70	1,400	21
Uwch Conwy	920	39	53	33	320	3
Uwchaled	700	36	39	32	120	0
Denbighshire						
Bodelwyddan	920	7	76	25	350	1
Corwen	1,200	72	119	79	920	10
Denbigh Upper/Henllan	1,400	8	75	45	200	1
Dyserth	1,100	8	61	43	190	0
Efenechtyd	710	61	109	64	800	9
Llanarmon-Yn-Ial/Llandegla	1,100	220	154	102	1,000	53
Llanbedr Dyffryn Clwyd/Llangynhafal	680	34	106	70	410	7
Llandrillo	590	22	69	57	130	0
Llandrnyog	920	15	38	32	74	0
Llanfair Dyffryn Clwyd/Gwyddelwern	1,000	120	103	66	1,900	12
Llangollen	2,000	58	165	100	2,200	10
Llanrhaeadr-Yng-Nghinmeirch	810	25	64	38	280	3
Prestatyn Central	1,600	5	26	21	62	0
Prestatyn East	1,800	10	49	38	88	0
Prestatyn Meliden	900	9	23	18	47	0
Prestatyn South West	1,800	7	13	10	29	0
Rhyl West	2,100	5	10	8	21	0
Ruthin	2,700	28	69	41	640	2
St. Asaph East	800	6	32	22	71	0
Trefnant	840	9	37	31	72	0

Table 3 Summary data by electoral ward (minimum 5 results)

Electoral Ward	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
Tremeirchion	690	7	42	36	98	0
Flintshire						
Argoed	1,100	23	31	25	120	0
Aston	1,400	8	45	38	85	0
Bagillt West	990	5	26	24	44	0
Broughton North East	990	5	28	24	45	0
Broughton South	1,800	6	43	27	120	0
Brynford	950	40	144	91	540	8
Buckley Bistre East	1,500	15	22	18	44	0
Buckley Bistre West	1,900	7	29	24	78	0
Buckley Mountain	1,400	9	60	42	170	0
Buckley Pentrobin	2,400	11	44	29	170	0
Caergwrle	760	330	135	82	1,200	60
Caerwys	1,100	27	114	75	500	5
Cilcain	820	190	268	158	3,700	84
Connah's Quay Golftyn	2,200	10	26	21	69	0
Connah's Quay South	2,300	14	33	24	130	0
Connah's Quay Wepre	980	5	39	27	91	0
Ewloe	2,200	16	29	22	130	0
Ffynnongroyw	920	6	52	27	150	0
Flint Coleshill	1,800	11	57	46	130	0
Flint Oakenholt	1,300	21	29	17	160	0
Flint Trelawny	1,400	20	46	37	130	0
Greenfield	1,200	10	31	27	65	0
Gronant	720	7	128	44	700	1
Gwernaffield	870	470	191	119	4,200	140
Gwernymynydd	780	420	185	98	2,500	110
Halkyn	740	220	153	77	1,400	50
Higher Kinnerton	700	13	31	29	58	0
Holywell East	790	6	43	35	74	0
Holywell West	1,000	15	117	82	460	2
Hope	1,100	440	76	42	1,800	38
Leeswood	940	11	53	40	130	0
Llanfynydd	780	120	139	93	630	28
Mold Broncoed	1,300	500	133	79	2,000	110
Mold East	930	440	133	79	990	93
Mold South	1,100	660	53	34	1,100	27
Mold West	1,300	440	115	66	1,000	81
Mostyn	830	17	38	32	90	0
New Brighton	1,300	21	28	22	120	0
Northop	1,300	680	41	30	550	10
Northop Hall	680	6	55	50	93	0
Penyffordd	1,800	13	36	29	120	0

Table 3 Summary data by electoral ward (minimum 5 results)

Electoral Ward	Homes		Results Bq m ⁻³			
	Total	Measured	Arithmetic Average	Geometric Average	Highest	At or above Action Level
Saltney Stonebridge	1,500	5	27	23	60	0
Sealand	1,400	7	20	18	31	0
Trelawnyd and Gwaenysgor	850	20	170	112	670	6
Treuddyn	740	27	75	46	420	1
Whitford	1,000	19	78	52	290	3
Gwynedd						
Aberdaron	580	19	35	26	130	0
Aberdovey	1,100	23	60	52	170	0
Abererch	640	10	58	29	310	1
Abermaw	1,400	16	34	27	83	0
Abersoch	860	6	34	30	70	0
Arllechwedd	610	21	59	33	560	1
Bala	1,000	13	51	39	140	0
Bethel	560	5	27	18	61	0
Bowydd and Rhiw	1,000	10	37	26	86	0
Brithdir and Llanfachreth/Ganllwyd/Llanelltyd	800	35	42	30	140	0
Bryn-Crug/Llanfihangel	550	23	77	66	180	0
Clynnog	520	16	67	46	320	1
Corris/Mawddwy	750	85	86	61	540	8
Criccieth	930	9	71	33	340	1
Deiniol	800	5	33	21	64	0
Dolbenmaen	590	22	52	41	230	1
Dolgellau North	750	9	52	42	110	0
Dyffryn Ardudwy	830	18	75	50	330	1
Efail-Newydd/Buan	600	9	82	49	410	1
Gerlan	1,100	5	49	43	87	0
Groeslon	810	12	31	27	92	0
Harlech	1,300	12	30	23	100	0
Llanaelhaearn	870	17	40	31	130	0
Llanbedr	640	13	37	29	88	0
Llanbedrog	610	5	53	51	78	0
Llanberis	1,000	19	55	42	170	0
Llandderfel	700	25	33	26	110	0
Llanengan	810	17	46	34	140	0
Llangelynin	1,300	43	53	32	370	2
Llanllyfni	600	6	82	70	160	0
Llanrug	790	5	21	17	34	0
Llanuwchllyn	470	26	49	39	110	0
Llanwnda	900	9	47	33	160	0
Llanystumdwy	920	11	28	25	65	0
Morfa Nefyn	850	10	34	24	73	0
Nefyn	750	14	60	37	290	1

Table 3 Summary data by electoral ward (minimum 5 results)

Electoral Ward	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
Penisarwaun	750	5	20	18	30	0
Penrhyndeudraeth	1,200	5	27	26	37	0
Pentir	1,200	10	68	50	180	0
Porthmadog West	1,300	6	83	27	420	1
Porthmadog-Tremadog	770	26	52	40	160	0
Pwllheli South	840	6	14	13	27	0
Talysarn	930	11	41	33	120	0
Teigl	980	6	29	28	39	0
Trawsfynydd	780	26	33	27	110	0
Tregarth & Mynydd Llandygai	950	8	50	35	120	0
Tudweiliog	490	15	47	34	160	0
Tywyn	1,800	11	46	34	100	0
Waunfawr	790	10	44	39	81	0
Y Felinheli	1,200	30	80	55	380	1
Isle of Anglesey						
Aethwy	3,200	13	25	21	46	0
Bro Aberffraw	2,000	55	56	31	1,200	1
Bro Rhosyr	2,300	59	134	78	750	13
Caergybi	3,700	9	20	12	81	0
Canolbarth Môn	4,000	270	73	49	1,100	14
Llifôn	3,100	63	98	51	1,200	6
Lligwy	3,400	520	156	90	2,100	130
Seiriol	3,200	54	56	38	340	2
Talybolion	2,900	92	36	27	180	0
Twrcelyn	3,700	47	38	28	190	0
Ynys Gybi	3,300	8	22	19	45	0
Merthyr Tydfil						
Park	2,100	5	19	15	50	0
Plymouth	2,500	15	128	46	640	3
Treharris	2,900	7	46	23	210	1
Vaynor	1,600	11	119	89	280	3
Monmouthshire						
Caerwent	910	7	36	28	78	0
Cantref	960	12	143	105	300	4
Castle	980	8	32	26	83	0
Crucorney	980	35	44	32	230	1
Devauden	620	17	52	40	160	0
Dixton with Osbaston	1,100	14	40	35	81	0
Goetre Fawr	1,100	11	52	39	130	0
Llanbadoc	550	11	73	51	250	1
Llanelly Hill	1,800	13	130	88	380	3
Llangybi Fawr	740	8	41	39	68	0
Llanover	960	15	56	45	130	0

Table 3 Summary data by electoral ward (minimum 5 results)

Electoral Ward	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
Llantilio Crossenny	780	30	42	32	190	0
Mill	1,200	6	36	33	60	0
Mitchel Troy	540	9	29	24	63	0
Overmonnow	1,200	6	34	32	46	0
Portskewett	950	7	72	50	180	0
Priory	1,100	7	95	75	200	1
Raglan	890	6	30	26	58	0
Shirenewton	900	12	65	54	140	0
St. Arvans	710	10	67	62	130	0
St. Kingsmark	1,200	10	51	41	120	0
St. Mary's	1,100	10	59	48	130	0
The Elms	1,300	11	72	51	320	1
Trellech United	1,100	25	66	56	180	0
Usk	1,200	6	30	26	54	0
Wyesham	1,100	5	36	31	81	0
Neath Port Talbot						
Allt-Wen	1,100	20	18	16	31	0
Baglan	3,100	5	30	27	53	0
Bryn-Coch South	2,600	10	28	25	59	0
Onllwyn	560	5	16	14	28	0
Pontardawe	2,600	6	21	14	50	0
Sandfields East	3,200	7	8	7	14	0
Newport						
Allt-Yr-Yn	3,900	7	18	16	31	0
Caerleon	3,600	8	27	22	52	0
Langstone	1,900	21	50	36	190	0
Liswerry	5,600	11	21	18	41	0
Llanwern	1,600	14	32	29	48	0
Malpas	3,500	6	18	12	46	0
Marshfield	2,600	6	24	21	57	0
Ringland	3,800	5	35	29	71	0
Rogerstone	4,500	5	29	24	52	0
Pembrokeshire						
Amroth	670	19	80	52	410	1
Burton	810	130	155	98	1,200	29
Camrose	1,300	22	54	37	290	1
Carew	660	47	157	101	730	11
Cilgerran	950	36	200	101	1,200	9
Clydau	650	100	122	88	760	13
Crymych	1,200	31	65	48	170	0
Dinas Cross	890	50	83	56	620	3
East Williamston	1,100	15	81	40	620	1
Fishguard North East	1,000	140	83	59	580	11

Table 3 Summary data by electoral ward (minimum 5 results)

Electoral Ward	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
Fishguard North West	790	100	99	62	570	13
Goodwick	1,000	14	44	32	210	1
Haverfordwest: Garth	1,200	5	21	21	28	0
Haverfordwest: Priory	1,200	7	48	37	100	0
Hundleton	910	39	68	46	320	4
Johnston	1,100	5	37	27	86	0
Kilgetty/Begelly	980	9	37	26	92	0
Lampeter Velfrey	680	16	55	41	180	0
Lamphey	1,200	140	153	101	1,400	29
Letterston	1,100	120	111	80	580	17
Llangwm	1,000	88	73	54	320	5
Llanrhian	870	30	83	63	460	1
Maenclochog	1,400	48	63	42	390	3
Manorbier	980	27	158	80	750	7
Martletwy	860	21	95	64	350	2
Narberth	1,100	17	91	50	380	3
Narberth Rural	710	11	81	54	210	1
Newport	820	14	74	49	390	1
Neyland: East	1,100	140	148	106	830	28
Neyland: West	1,000	83	131	82	720	19
Pembroke Dock: Central	960	9	88	59	260	2
Pembroke Dock: Llanion	1,300	9	170	85	740	2
Pembroke Dock: Market	850	25	113	72	570	4
Pembroke Dock: Pennar	1,500	40	58	38	510	1
Pembroke: Monkton	730	9	86	72	180	0
Pembroke: St. Mary South	790	9	82	62	180	0
Pembroke: St. Michael	1,200	18	163	96	860	6
Penally	810	10	75	50	300	1
Saundersfoot	1,600	7	67	47	130	0
Scleddau	740	26	128	67	760	5
Solva	870	29	107	70	600	3
St. David's	1,100	32	55	36	350	1
St. Dogmaels	1,200	41	156	76	950	9
St. Ishmael's	790	23	55	43	140	0
Tenby: South	1,700	39	38	28	230	1
The Havens	930	19	59	44	170	0
Wiston	850	29	76	58	340	1
Powys						
Aber-Craf	710	6	45	36	68	0
Banwy	480	31	65	39	350	2
Beguildy	680	110	97	60	900	13
Berriew	630	17	65	50	280	1
Blaen Hafren	1,100	74	69	53	330	3
Bronllys	630	24	53	40	160	0
Builth	1,200	13	58	44	150	0

Table 3 Summary data by electoral ward (minimum 5 results)

Electoral Ward	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
Bwlch	480	20	53	42	180	0
Caersws	1,100	28	45	34	170	0
Churchstoke	700	45	51	37	270	1
Crickhowell	1,400	55	40	32	150	0
Cwm-Twrch	930	5	28	26	45	0
Disserth and Trecoed	670	10	39	30	140	0
Dolforwyn	900	21	68	47	370	1
Felin-Fâch	620	20	49	36	260	1
Forden	650	14	34	26	110	0
Glantwymyn	1,100	53	73	47	460	3
Glasbury	1,100	44	69	43	670	2
Guilsfield	1,000	20	47	43	98	0
Gwernyfed	710	17	75	46	380	1
Hay	950	11	41	36	97	0
Kerry	870	28	71	46	440	2
Knighton	1,500	490	111	75	1100	69
Llanafanfawr	670	42	43	31	130	0
Llanbadarn Fawr	520	23	37	28	150	0
Llanbrynmair	470	36	60	37	420	2
Llandinam	630	26	56	47	140	0
Llandrinio	900	19	40	34	120	0
Llandysilio	820	18	51	39	200	1
Llanelwedd	580	33	61	49	170	0
Llanfair Caereinion	810	23	44	30	220	1
Llanfihangel	510	20	39	32	120	0
Llanfyllin	730	15	63	48	140	0
Llangattock	500	21	122	100	310	3
Llangors	490	10	34	29	82	0
Llangunllo	570	90	116	69	900	16
Llangynidr	480	29	115	75	300	7
Llanidloes	1,500	9	92	53	260	2
Llanrhaeadr-Ym-Mochnant/Llansilin	1,000	160	64	36	1700	6
Llansantffraid	920	16	74	50	270	1
Llanwddyn	520	40	57	43	180	0
Llanwrtyd Wells	920	52	48	31	520	1
Llanyre	570	14	32	29	110	0
Machynlleth	1,100	17	66	46	170	0
Maescar/Llywel	880	49	41	33	160	0
Meifod	570	19	53	41	220	1
Montgomery	690	14	42	36	83	0
Nantmel	720	49	50	40	160	0
Newtown East	1,100	7	90	33	440	1
Newtown Llanllwchaiarn North	1,100	11	67	51	150	0
Newtown Llanllwchaiarn West	870	9	75	38	300	1

Table 3 Summary data by electoral ward (minimum 5 results)

Electoral Ward	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
Old Radnor	810	110	117	77	730	21
Presteigne	1,300	79	61	46	350	3
Rhayader	1,100	37	76	60	230	2
Rhiwcynon	960	46	78	41	1200	2
St. David within	870	11	126	88	290	3
St. John	1,500	6	40	28	76	0
St. Mary	1,600	10	42	30	110	0
Talgarth	760	17	42	32	130	0
Talybont-on-Usk	960	38	57	30	500	1
Tawe-Uchaf	990	24	112	48	690	4
Trewern	580	24	50	41	120	0
Welshpool Castle	770	5	48	36	120	0
Welshpool Gungrog	1,300	8	40	30	140	0
Ynyscedwyn	1,000	11	70	43	320	1
Yscir	490	38	76	46	920	2
Ystradgynlais	1,400	11	24	15	98	0
Rhondda Cynon Taf						
Aberdare West/Llwydcoed	4,300	8	20	18	29	0
Llanharry	1,900	19	92	59	320	3
Llantrisant Town	2,100	8	60	39	130	0
Pont-Y-Clun	3,300	22	62	42	420	1
Porth	2,800	6	35	25	110	0
Rhigos	800	7	27	16	64	0
Rhondda	2,100	5	39	11	56	0
Taffs Well	1,700	5	40	27	130	0
Treherbert	2,800	12	17	14	35	0
Swansea						
Bishopston	1,600	43	112	63	630	8
Clydach	3,500	6	27	21	72	0
Cockett	6,500	5	15	13	31	0
Gower	1,700	30	33	24	150	0
Gowerton	2,200	6	15	14	22	0
Landore	3,200	7	36	32	72	0
Llangyfelach	2,200	5	26	24	49	0
Mawr	780	5	64	37	130	0
Newton	1,800	5	157	78	390	2
Oystermouth	2,300	8	57	47	100	0
Penclawdd	1,700	7	19	19	23	0
Pennard	1,200	18	64	39	410	1
Pontardulais	2,900	7	32	28	64	0
Sketty	6,400	8	29	21	95	0
Uplands	5,700	7	37	21	100	0
West Cross	3,300	5	39	28	77	0

Table 3 Summary data by electoral ward (minimum 5 results)

Electoral Ward	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
Torfaen						
Abersychan	3,100	7	52	31	120	0
Blaenavon	2,800	8	28	23	53	0
New Inn	2,800	5	17	14	32	0
Vale of Glamorgan						
Baruc	3,100	5	56	52	98	0
Cowbridge	2,900	140	108	66	1,600	20
Dinas Powys	3,400	12	49	38	140	0
Llandow/Ewenny	1,100	26	135	88	550	7
Llantwit Major	4,600	64	64	46	270	1
Peterston-Super-Ely	940	29	107	66	470	4
Plymouth	2,500	14	51	36	130	0
Rhosee	2,900	78	54	39	350	3
St. Athan	1,500	35	163	113	620	12
St. Augustine's	3,700	6	30	17	120	0
St. Bride's Major	1,200	25	117	79	710	3
Stanwell	1,800	15	26	21	88	0
Sully	2,000	10	75	60	170	0
Wenvoe	1,200	130	87	57	430	14
Wrexham						
Bronington	1,400	35	27	24	67	0
Brymbo	1,900	10	66	45	130	0
Cefn	2,200	9	57	26	310	1
Chirk North	1,100	10	80	70	150	0
Chirk South	960	12	144	76	800	3
Coedpoeth	2,000	18	151	62	1,200	3
Dyffryn Ceiriog/Ceiriog Valley	1,000	40	108	63	380	7
Erddig	820	6	46	26	140	0
Garden Village	960	5	60	56	82	0
Gresford East and West	1,200	36	159	115	560	10
Gwersyllt East and South	2,100	8	85	70	150	0
Gwersyllt North	1,200	25	127	71	580	6
Gwersyllt West	1,200	7	54	41	150	0
Hermitage	1,200	11	98	71	200	1
Holt	1,500	14	39	36	70	0
Little Acton	1,000	7	60	47	100	0
Llangollen Rural	900	8	113	66	410	1
Llay	2,100	220	66	37	490	13
Marford and Hoseley	960	10	84	70	160	0
Minera	1,000	19	73	50	270	2
New Broughton	1,700	9	72	64	150	0
Overton	1,500	25	33	27	120	0

Table 3 Summary data by electoral ward (minimum 5 results)

Electoral Ward	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
Penycae and Ruabon South	1,100	9	48	35	110	0
Ponciau	2,400	8	45	25	220	1
Rossett	1,400	41	58	35	800	1
Ruabon	1,300	7	27	23	43	0

Table 4 Summary data for postcode areas in Wales

Postcode Area	Post town	Homes		Results Bq m ⁻³			At or above Action Level
		Total	Measured	Arithmetic Average	Geometric Average	Highest	
CF	Cardiff	445,000	1,300	68	38	1,600	94
CH	Chester	64,900	4,700	117	61	4,200	780
HR	Hereford	2,100	62	58	45	400	1
LD	Llandrindod Wells	24,400	1,400	87	55	1,100	130
LL	Llandudno	255,000	4,900	86	49	2,200	470
NP	Newport	218,000	680	51	33	590	22
SA	Swansea	345,000	3,900	89	52	1,900	380
SY	Shrewsbury	49,000	1,500	64	43	1,700	55

Table 5 Summary data by postcode district (minimum 5 results)

Postcode District	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
CF3	18,000	19	21	19	57	0
CF5	29,000	200	80	53	430	16
CF11	15,700	12	62	29	400	1
CF14	32,700	67	72	48	370	5
CF15	7,700	64	59	37	300	4
CF23	18,900	19	19	17	48	0
CF24	20,600	19	23	19	49	0
CF31	19,700	33	37	29	82	0
CF32	14,000	39	90	54	710	3
CF33	6,700	6	19	17	27	0
CF34	9,300	11	37	22	120	0
CF35	7,300	22	89	41	550	4
CF36	7,500	58	70	42	590	4
CF37	17,400	19	22	8	56	0
CF38	9,900	10	22	12	110	0
CF39	13,100	17	26	15	120	0
CF40	9,500	9	13	10	27	0
CF41	5,100	6	19	13	49	0
CF42	6,500	15	17	14	35	0
CF44	18,900	39	53	24	690	2
CF45	9,200	6	18	14	41	0
CF46	6,500	13	33	18	210	1
CF47	10,000	10	11	6	50	0
CF48	12,500	34	101	43	640	6
CF61	4,200	64	64	46	270	1
CF62	18,100	99	90	54	620	13
CF63	9,800	8	25	17	30	0
CF64	16,600	60	52	33	440	1
CF71	4,000	210	104	63	1,600	29
CF72	11,900	59	68	44	420	4
CF81	7,400	11	16	14	31	0
CF82	8,800	9	18	16	31	0
CF83	24,200	22	37	27	140	0
CH1	15,300	5	18	16	28	0
CH4	15,100	44	32	25	120	0
CH5	18,500	78	31	24	130	0
CH6	7,300	53	40	29	160	0
CH7	22,400	4,300	120	63	4,200	740
CH8	9,300	180	131	72	1,200	31
HR3	3,700	45	63	47	400	1
HR5	2,400	17	47	40	120	0
LD1	5,800	160	42	32	170	0
LD2	2,800	90	51	39	160	0

Table 5 Summary data by postcode district (minimum 5 results)

Postcode District	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
LD3	9,300	220	60	37	920	9
LD4	390	33	38	28	140	0
LD5	550	22	64	41	520	1
LD6	1,500	61	65	50	230	2
LD7	2,300	620	115	77	1,100	98
LD8	2,200	180	97	64	730	24
LL11	17,100	140	100	61	1,200	13
LL12	12,400	1,200	99	55	1,800	160
LL13	15,400	73	49	34	200	2
LL14	15,000	67	66	36	800	5
LL15	4,900	220	108	66	1,900	33
LL16	7,000	77	52	37	280	2
LL17	2,500	15	49	31	180	0
LL18	18,800	46	46	20	350	2
LL19	9,500	41	44	19	700	1
LL20	3,800	110	141	83	2,200	18
LL21	3,100	160	79	53	920	10
LL22	8,700	120	64	36	1,100	6
LL23	2,100	60	45	35	140	0
LL24	1,200	58	51	34	320	2
LL25	320	10	58	43	210	1
LL26	2,200	180	60	43	530	8
LL27	440	140	116	70	1,400	20
LL28	7,000	59	73	49	310	6
LL29	9,200	93	57	38	370	3
LL30	10,700	33	31	23	82	0
LL31	4,800	28	32	26	87	0
LL32	3,400	39	66	44	520	1
LL33	1,900	34	50	37	160	0
LL34	2,100	11	87	61	310	1
LL35	900	13	52	46	90	0
LL36	2,600	41	62	49	180	0
LL37	340	16	79	57	370	1
LL38	510	11	18	11	72	0
LL39	160	7	59	35	240	1
LL40	2,300	51	44	33	140	0
LL41	3,400	43	33	27	110	0
LL42	1,400	16	34	27	83	0
LL43	260	9	117	86	330	1
LL44	560	9	33	29	78	0
LL45	370	8	40	29	88	0
LL46	1,200	11	27	23	52	0
LL47	350	6	37	28	100	0
LL48	1,200	5	27	26	37	0
LL49	2,600	15	60	27	420	2

Table 5 Summary data by postcode district (minimum 5 results)

Postcode District	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
LL51	400	19	47	40	110	0
LL52	1,400	15	55	30	340	1
LL53	9,500	130	44	30	410	3
LL54	5,500	70	52	39	320	1
LL55	10,000	67	52	36	180	0
LL56	1,200	30	80	55	380	1
LL57	10,900	61	49	29	560	1
LL58	2,200	48	59	40	340	2
LL59	2,600	11	30	23	74	0
LL60	1,400	9	35	26	70	0
LL61	2,900	67	139	74	1,200	14
LL62	840	38	35	26	180	0
LL63	710	33	134	64	1,200	6
LL64	840	28	65	50	190	0
LL65	11,500	65	27	20	97	0
LL66	120	7	33	29	62	0
LL68	2,900	35	43	33	190	0
LL70	160	10	25	20	75	0
LL71	860	70	39	29	180	0
LL72	520	40	83	51	420	5
LL73	140	29	345	229	1,300	18
LL74	1,400	330	163	100	2,100	85
LL75	770	70	75	50	640	3
LL76	140	23	251	175	870	10
LL77	3,300	260	75	50	1,100	14
LL78	220	16	176	140	440	6
NP4	20,600	38	34	22	130	0
NP7	12,400	120	70	44	590	10
NP8	2,600	110	76	51	310	10
NP10	10,300	9	27	23	52	0
NP11	17,000	14	34	23	140	0
NP12	14,500	10	18	7	77	0
NP13	9,400	10	20	16	41	0
NP15	3,600	44	53	41	250	1
NP16	10,300	69	57	47	140	0
NP18	7,200	27	32	28	78	0
NP19	23,300	15	31	22	99	0
NP20	23,400	15	17	13	46	0
NP22	10,500	7	21	10	82	0
NP23	15,400	12	23	9	80	0
NP25	7,000	67	47	37	190	0
NP26	10,000	59	51	34	320	1
NP44	21,100	24	25	15	120	0
SA1	24,200	14	31	23	86	0

Table 5 Summary data by postcode district (minimum 5 results)

Postcode District	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
SA2	16,000	23	30	20	120	0
SA3	13,200	110	77	42	630	11
SA4	20,200	43	25	20	120	0
SA5	16,400	10	28	14	130	0
SA6	15,500	13	21	15	72	0
SA8	5,800	32	18	15	50	0
SA9	7,500	46	56	30	560	3
SA10	14,000	41	21	17	59	0
SA11	17,200	27	24	17	100	0
SA12	15,200	22	30	9	340	1
SA13	9,000	11	26	18	76	0
SA14	15,200	33	36	20	280	1
SA15	17,700	36	25	14	150	0
SA16	4,100	6	54	28	170	0
SA17	4,400	31	39	29	130	0
SA18	14,000	41	43	27	190	0
SA19	4,600	140	43	33	200	1
SA20	1,600	48	63	45	530	1
SA31	8,200	36	53	38	190	0
SA32	3,300	110	82	54	550	7
SA33	5,700	130	79	54	710	10
SA34	2,200	67	81	50	1,100	3
SA35	350	42	113	82	600	5
SA37	630	80	178	112	1,200	17
SA38	2,200	270	133	76	1,400	45
SA39	1,200	40	67	53	240	1
SA40	1,400	26	47	33	210	1
SA41	940	27	64	49	150	0
SA42	1,500	40	65	45	390	2
SA43	6,700	120	93	55	950	12
SA44	5,500	390	88	55	1,900	35
SA45	1,100	17	58	44	140	0
SA46	1,400	15	48	35	170	0
SA47	510	8	31	26	62	0
SA48	4,100	84	52	37	490	2
SA61	6,900	25	55	39	350	1
SA62	10,700	430	87	60	600	36
SA63	550	15	74	50	380	1
SA64	1,200	26	85	42	760	3
SA65	2,300	280	93	61	640	29
SA66	1,400	50	57	39	390	2
SA67	3,400	71	77	49	410	5
SA68	1,900	31	126	59	730	5
SA69	2,200	10	70	49	160	0
SA70	5,000	120	101	55	750	17
SA71	5,400	150	131	81	1,400	28

Table 5 Summary data by postcode district (minimum 5 results)

Postcode District	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
SA72	4,900	150	109	67	850	20
SA73	9,900	340	144	94	1,200	71
SY5	8,900	10	38	32	110	0
SY10	6,800	210	62	37	1,700	6
SY13	8,600	32	25	22	62	0
SY14	2,800	7	28	27	38	0
SY15	2,400	75	52	38	370	2
SY16	7,400	100	66	43	440	5
SY17	1,800	67	58	45	250	1
SY18	2,300	65	69	50	330	4
SY19	520	38	61	39	420	2
SY20	3,500	180	77	54	540	11
SY21	7,800	160	58	38	1,200	5
SY22	4,100	87	55	41	270	3
SY23	12,300	340	72	51	540	15
SY24	2,200	37	65	46	210	1
SY25	2,200	64	55	42	190	0

Table 6 Summary data by postcode sector (minimum 5 results)

Postcode Sector	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
CF3 2	1,400	5	27	23	57	0
CF5 2	4,300	20	34	29	100	0
CF5 4	6,700	13	74	48	310	1
CF5 6	2,000	160	86	57	430	15
CF11 6	4,600	6	24	18	59	0
CF14 0	2,300	11	42	34	120	0
CF14 2	4,700	8	87	55	240	1
CF14 4	4,000	6	47	40	94	0
CF14 5	3,900	5	55	37	130	0
CF14 6	4,400	7	50	45	78	0
CF14 7	2,100	16	141	114	370	4
CF14 9	3,200	7	18	17	26	0
CF15 7	2,500	13	53	38	200	1
CF15 8	2,800	28	53	35	220	1
CF15 9	2,400	23	70	39	300	2
CF23 7	3,300	6	12	11	18	0
CF24 4	6,000	6	22	19	49	0
CF31 1	4,300	5	40	23	81	0
CF31 2	5,000	7	34	31	69	0
CF31 3	2,100	5	28	25	56	0
CF31 4	6,100	8	42	31	82	0
CF31 5	2,300	8	40	35	66	0
CF32 0	2,400	25	114	76	710	3
CF32 8	3,500	7	49	37	130	0
CF32 9	5,200	5	30	17	110	0
CF34 0	4,900	5	27	18	60	0
CF34 9	4,300	6	46	26	120	0
CF35 5	2,500	12	137	77	550	4
CF35 6	4,900	10	31	19	110	0
CF36 3	4,300	47	66	39	590	3
CF36 5	3,200	11	87	51	210	1
CF37 1	4,000	6	17	2	55	0
CF37 4	3,300	5	16	9	31	0
CF38 1	4,200	6	32	20	110	0
CF39 0	2,500	5	60	44	120	0
CF39 8	6,600	8	13	9	25	0
CF40 2	5,300	6	11	8	22	0
CF41 7	5,100	6	19	13	49	0
CF42 5	3,000	12	17	14	35	0
CF44 0	3,800	5	21	18	26	0
CF44 6	4,900	5	20	14	47	0
CF44 9	4,100	23	78	34	690	2
CF46 5	2,900	7	46	23	210	1
CF46 6	3,700	6	17	14	37	0
CF48 2	2,800	14	102	72	280	3
CF48 4	3,700	15	128	46	640	3

Table 6 Summary data by postcode sector (minimum 5 results)

Postcode Sector	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
CF61 1	2,100	50	66	48	270	1
CF61 2	2,000	14	56	41	110	0
CF62 3	2,900	51	52	39	250	1
CF62 4	1,900	35	163	113	620	12
CF62 6	2,700	6	48	37	98	0
CF64 1	3,200	5	12	11	17	0
CF64 2	3,800	6	112	54	440	1
CF64 3	3,600	24	38	28	130	0
CF64 4	3,300	11	50	38	140	0
CF64 5	2,700	14	66	48	170	0
CF71 7	4,000	210	104	63	1,600	29
CF72 8	4,800	29	61	39	420	1
CF72 9	7,100	30	73	49	320	3
CF81 9	3,700	8	17	15	31	0
CF82 7	5,400	7	20	18	31	0
CF83 8	4,700	9	47	34	140	0
CH1 6	2,200	5	18	16	28	0
CH4 0	4,900	23	34	24	120	0
CH4 8	5,100	6	26	24	60	0
CH4 9	1,500	15	31	28	58	0
CH5 1	3,800	13	22	17	57	0
CH5 2	3,300	8	28	26	49	0
CH5 3	4,300	26	34	27	130	0
CH5 4	7,000	31	34	25	130	0
CH6 5	5,600	46	42	30	160	0
CH6 6	1,700	7	25	23	44	0
CH7 1	4,500	2,000	103	58	2,000	300
CH7 2	4,000	25	30	22	170	0
CH7 3	3,100	14	52	34	170	0
CH7 4	2,800	370	154	83	2,100	83
CH7 5	3,000	970	206	123	4,200	310
CH7 6	4,900	930	59	35	1,400	48
CH8 7	4,100	33	75	50	460	2
CH8 8	2,600	100	164	93	1,200	23
CH8 9	2,500	42	95	52	670	6
HR3 5	2,300	41	66	49	400	1
HR5 3	2,400	17	47	40	120	0
LD1 5	3,100	60	47	35	170	0
LD1 6	2,700	100	39	30	160	0
LD2 3	2,800	90	51	39	160	0
LD3 0	2,000	42	68	41	670	2
LD3 7	2,700	52	56	35	500	1
LD3 8	2,200	75	52	36	290	3

Table 6 Summary data by postcode sector (minimum 5 results)

Postcode Sector	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
LD3 9	2,500	52	68	39	920	3
LD4 4	390	33	38	28	140	0
LD5 4	550	22	64	41	520	1
LD6 5	1,500	61	65	50	230	2
LD7 1	2,300	620	115	77	1,100	98
LD8 2	2,200	180	97	64	730	24
LL11 2	3,400	10	65	52	200	1
LL11 3	3,200	67	122	73	1,200	8
LL11 4	4,000	18	74	52	230	1
LL11 5	3,000	36	66	46	270	1
LL11 6	3,100	12	156	82	890	2
LL12 0	3,400	250	61	35	800	11
LL12 7	3,400	9	60	33	210	1
LL12 8	3,400	58	131	93	560	11
LL12 9	2,300	900	108	61	1,800	130
LL13 0	3,400	29	40	32	120	0
LL13 7	3,600	20	78	48	200	2
LL13 8	3,900	5	59	35	180	0
LL13 9	4,500	19	31	25	70	0
LL14 1	2,400	10	55	35	220	1
LL14 2	3,500	9	23	19	41	0
LL14 3	3,100	12	47	22	310	1
LL14 5	2,300	21	119	77	800	3
LL14 6	1,900	11	36	29	87	0
LL15 1	3,300	59	92	56	640	9
LL15 2	1,600	160	114	70	1,900	24
LL16 3	3,000	7	31	23	75	0
LL16 4	2,200	33	36	29	110	0
LL16 5	1,800	37	71	52	280	2
LL17 0	2,500	15	52	31	180	0
LL18 2	3,700	5	18	15	29	0
LL18 4	4,900	6	14	12	32	0
LL18 5	4,300	14	48	20	350	1
LL18 6	1,600	13	87	58	290	1
LL19 7	3,500	6	13	6	53	0
LL19 8	3,500	18	17	13	47	0
LL19 9	2,500	17	83	44	700	1
LL20 7	2,100	63	154	78	2,200	11
LL20 8	1,700	42	121	91	530	7
LL21 0	1,400	47	51	39	130	0
LL21 9	1,700	120	91	60	920	10
LL22 7	4,100	26	27	19	96	0
LL22 8	2,600	79	82	50	1,100	6
LL22 9	2,000	16	37	21	110	0
LL23 7	2,100	60	45	35	140	0

Table 6 Summary data by postcode sector (minimum 5 results)

Postcode Sector	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
LL24 0	1,200	58	51	34	320	2
LL25 0	320	10	58	43	210	1
LL26 0	2,200	180	60	43	530	8
LL27 0	440	140	116	70	1,400	20
LL28 4	4,300	30	47	35	240	1
LL28 5	2,700	29	99	68	310	5
LL29 6	840	9	33	29	58	0
LL29 7	2,100	12	51	36	170	0
LL29 8	3,100	57	66	41	370	3
LL29 9	3,200	15	45	34	140	0
LL30 1	4,600	13	31	22	82	0
LL30 2	3,600	9	37	30	81	0
LL30 3	2,400	11	27	18	77	0
LL31 9	4,800	28	32	26	87	0
LL32 8	3,400	39	66	44	520	1
LL33 0	1,900	34	50	37	160	0
LL34 6	2,100	11	87	61	310	1
LL35 0	900	13	52	46	90	0
LL36 9	1,700	40	62	49	180	0
LL37 2	340	16	79	57	370	1
LL38 2	510	11	18	11	72	0
LL39 1	160	7	59	35	240	1
LL40 1	1,200	10	53	45	120	0
LL40 2	1,100	41	42	30	140	0
LL41 3	1,700	16	36	28	86	0
LL41 4	1,700	27	31	26	110	0
LL42 1	1,400	16	34	27	83	0
LL43 2	260	9	117	86	330	1
LL44 2	560	9	33	29	78	0
LL45 2	370	8	40	29	88	0
LL46 2	1,200	11	27	23	52	0
LL47 6	350	6	37	28	100	0
LL48 6	1,200	5	27	26	37	0
LL49 9	2,600	15	60	27	420	2
LL51 9	400	19	47	40	110	0
LL52 0	1,400	15	55	30	340	1
LL53 5	2,200	10	22	16	92	0
LL53 6	3,000	49	54	31	410	3
LL53 7	2,500	31	44	36	140	0
LL53 8	1,900	44	39	29	160	0
LL54 5	1,600	30	54	39	320	1
LL54 6	2,000	15	65	49	160	0
LL54 7	1,800	25	42	33	160	0
LL55 1	2,500	6	65	28	150	0
LL55 3	1,400	7	27	23	61	0
LL55 4	3,000	50	57	43	180	0

Table 6 Summary data by postcode sector (minimum 5 results)

Postcode Sector	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
LL56 4	1,200	30	80	55	380	1
LL57 1	2,600	5	33	21	64	0
LL57 2	3,100	13	44	28	150	0
LL57 3	2,500	22	56	29	560	1
LL57 4	2,600	21	49	32	180	0
LL58 8	2,200	48	59	40	340	2
LL59 5	2,600	11	30	23	74	0
LL60 6	1,400	9	35	26	70	0
LL61 5	1,300	7	25	20	46	0
LL61 6	1,600	60	152	86	1,200	14
LL62 5	840	38	35	26	180	0
LL63 5	710	33	134	64	1,200	6
LL64 5	840	28	65	50	190	0
LL65 2	4,300	14	23	16	81	0
LL65 3	2,800	27	37	26	97	0
LL65 4	1,600	21	20	17	53	0
LL66 0	110	5	39	34	62	0
LL68 0	600	15	46	34	140	0
LL68 9	2,300	20	41	32	190	0
LL70 9	160	10	25	20	75	0
LL71 7	230	9	20	17	48	0
LL71 8	630	61	42	32	180	0
LL72 8	520	40	83	51	420	5
LL73 8	140	29	345	229	1,300	18
LL74 8	1,400	330	163	100	2,100	85
LL75 8	750	70	75	50	640	3
LL76 8	140	23	251	175	870	10
LL77 7	3,200	250	75	49	1,100	14
LL78 8	170	12	195	161	440	5
NP4 0	3,500	12	34	24	110	0
NP4 8	3,500	6	61	41	130	0
NP4 9	2,800	8	28	23	53	0
NP7 0	1,900	13	130	88	380	3
NP7 5	2,600	17	73	52	200	1
NP7 6	2,600	10	35	28	88	0
NP7 7	1,400	30	83	51	300	5
NP7 8	1,400	36	38	31	170	0
NP7 9	2,500	15	89	50	590	1
NP8 1	2,600	110	76	51	310	10
NP11 6	5,000	7	29	26	54	0
NP15 1	2,600	35	55	42	250	1
NP15 2	980	9	48	39	96	0
NP16 5	5,000	26	52	42	130	0
NP16 6	2,800	43	60	50	140	0
NP18 1	2,200	7	32	29	52	0

Table 6 Summary data by postcode sector (minimum 5 results)

Postcode Sector	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
NP18 2	2,800	19	31	27	78	0
NP19 9	5,800	5	35	29	71	0
NP20 5	4,500	5	19	13	31	0
NP22 4	3,600	6	24	12	82	0
NP23 5	4,700	5	34	20	78	0
NP23 6	4,300	5	19	7	80	0
NP25 3	2,500	10	37	31	81	0
NP25 4	1,700	26	52	38	180	0
NP25 5	2,900	31	47	37	190	0
NP26 3	3,900	41	53	39	320	1
NP26 5	2,700	15	53	32	180	0
NP44 4	3,000	7	11	9	27	0
SA1 2	3,000	6	37	31	72	0
SA2 0	5,300	6	30	19	100	0
SA2 7	5,000	10	30	19	120	0
SA2 8	2,900	5	34	22	95	0
SA3 1	1,500	26	32	24	150	0
SA3 2	1,200	18	36	27	100	0
SA3 3	1,900	47	116	65	630	9
SA3 4	4,100	14	89	50	390	2
SA3 5	4,500	5	56	44	97	0
SA4 0	1,400	8	34	30	55	0
SA4 3	4,500	13	25	19	120	0
SA4 4	5,400	6	19	14	46	0
SA4 8	3,000	7	32	28	64	0
SA6 5	4,100	7	25	19	72	0
SA8 3	2,200	23	17	15	31	0
SA8 4	3,500	9	19	14	50	0
SA9 1	3,800	36	65	31	560	3
SA9 2	3,600	10	27	24	53	0
SA10 6	4,800	6	21	18	39	0
SA10 7	4,400	7	24	20	59	0
SA10 8	2,900	14	25	23	54	0
SA10 9	1,800	14	16	12	54	0
SA11 1	3,300	6	12	11	24	0
SA11 3	5,000	5	14	13	22	0
SA11 5	2,700	9	33	22	100	0
SA12 6	5,100	9	7	4	14	0
SA12 8	3,200	5	30	27	53	0
SA12 9	3,200	6	74	29	340	1
SA13 2	3,700	5	40	31	76	0
SA13 3	2,400	6	15	12	30	0
SA14 6	3,000	13	50	21	280	1
SA14 7	3,000	10	21	15	65	0
SA14 8	5,500	7	40	32	78	0

Table 6 Summary data by postcode sector (minimum 5 results)

Postcode Sector	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
SA15 1	4,500	6	10	6	28	0
SA15 4	2,400	8	25	17	48	0
SA15 5	3,100	15	38	25	150	0
SA16 0	4,100	6	54	28	170	0
SA17 4	2,900	14	38	24	130	0
SA17 5	1,500	17	41	34	98	0
SA18 1	4,300	8	9	9	13	0
SA18 2	4,700	17	46	39	110	0
SA18 3	5,000	16	56	32	190	0
SA19 6	1,600	17	44	36	110	0
SA19 7	1,300	49	43	31	200	1
SA19 8	910	43	46	37	130	0
SA19 9	760	28	38	30	100	0
SA20 0	1,600	48	63	45	530	1
SA31 1	2,900	12	73	54	190	0
SA31 2	2,100	12	45	31	130	0
SA31 3	3,200	12	42	33	100	0
SA32 7	1,700	78	100	68	550	7
SA32 8	1,600	27	31	27	62	0
SA33 4	2,600	37	74	47	540	3
SA33 5	1,500	30	59	48	240	1
SA33 6	1,600	62	91	62	710	6
SA34 0	2,200	67	81	50	1,100	3
SA35 0	350	42	113	82	600	5
SA37 0	630	80	178	112	1,200	17
SA38 9	2,200	270	133	76	1,400	45
SA39 9	1,200	40	67	53	240	1
SA40 9	1,400	26	47	33	210	1
SA41 3	940	27	64	49	150	0
SA42 0	1,500	40	65	45	390	2
SA43 1	2,500	29	40	34	98	0
SA43 2	2,900	55	73	54	310	3
SA43 3	1,400	36	168	83	950	9
SA44 4	1,900	120	85	59	470	13
SA44 5	2,200	240	92	55	1,900	20
SA44 6	1,400	29	67	47	290	2
SA45 9	1,100	17	58	44	140	0
SA46 0	1,400	15	48	35	170	0
SA47 0	510	8	31	26	62	0
SA48 7	1,900	35	58	35	490	2
SA48 8	2,100	49	47	38	140	0
SA61 1	3,800	13	66	42	350	1
SA61 2	3,100	12	43	37	81	0
SA62 3	2,800	46	52	40	170	0
SA62 4	2,100	130	84	61	430	12
SA62 5	2,700	170	105	77	580	19

Table 6 Summary data by postcode sector (minimum 5 results)

Postcode Sector	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
SA62 6	3,100	85	73	46	600	5
SA63 4	550	15	74	50	380	1
SA64 0	1,200	26	85	42	760	3
SA65 9	2,300	280	93	61	640	29
SA66 7	1,400	50	57	39	390	2
SA67 7	1,300	18	88	55	380	2
SA67 8	2,100	53	73	47	410	3
SA68 0	1,900	31	126	59	730	5
SA69 9	2,200	10	70	49	160	0
SA70 7	2,200	59	65	36	750	4
SA70 8	2,900	57	139	83	580	13
SA71 4	2,800	23	105	74	390	1
SA71 5	2,600	130	136	82	1,400	27
SA72 4	380	66	134	89	850	11
SA72 6	4,600	83	90	53	740	9
SA73 1	4,100	320	147	96	1,200	70
SA73 2	3,000	5	91	52	230	1
SA73 3	2,900	12	93	79	190	0
SY5 9	2,000	7	30	27	50	0
SY10 0	1,100	86	48	38	180	0
SY10 7	2,100	94	78	35	1,700	6
SY10 9	2,100	25	51	43	130	0
SY13 2	1,800	6	25	22	39	0
SY13 3	1,100	26	26	22	62	0
SY14 7	1,200	7	28	27	38	0
SY15 6	2,400	75	52	38	370	2
SY16 1	3,000	7	30	21	99	0
SY16 2	1,900	19	71	43	300	1
SY16 3	1,300	43	66	45	440	2
SY16 4	1,200	34	71	48	440	2
SY17 5	1,800	67	58	45	250	1
SY18 6	2,300	65	69	50	330	4
SY19 7	520	38	61	39	420	2
SY20 8	2,300	72	66	46	460	1
SY20 9	1,200	110	85	60	540	10
SY21 0	1,500	68	56	36	350	3
SY21 7	2,800	11	42	33	140	0
SY21 8	2,100	58	69	39	1,200	2
SY21 9	1,500	25	47	41	150	0
SY22 5	960	26	56	42	150	0
SY22 6	3,100	61	55	40	270	3
SY23 1	2,800	9	41	33	110	0
SY23 3	4,100	230	83	57	540	15
SY23 4	2,500	69	51	40	180	0
SY23 5	1,400	34	56	44	170	0

Table 6 Summary data by postcode sector (minimum 5 results)

Postcode Sector	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
SY24 5	2,200	37	65	46	210	1
SY25 6	2,200	64	55	42	190	0

Table 7 Summary data by NHS health board

Local Health Board	Homes		Results Bq m ⁻³			At or above Action Level
	Total	Measured	Arithmetic Average	Geometric Average	Highest	
Abertawe Bro Morgannwg	239,000	480	44	25	630	17
Aneurin Bevan	259,000	620	45	29	590	12
Betsi Cadwaladr	322,000	9,700	101	54	4,200	1,200
Cardiff and Vale	202,000	870	78	47	1,600	76
Cwm Taf	136,000	230	45	20	640	11
Hywel Dda	181,000	4,000	92	56	1,900	380
Powys Teaching	64,000	2,500	76	48	1,700	180