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Issues Associated with updating 2011 Census-based data

Summary

1. This paper looks at the issues associated with updating 2011 Census-based data and considers the potential distribution impact.

Views sought

2. DSG members are asked to discuss the options within the paper and agree the next steps.

Related papers

3. 2014-05-08 - Distribution Sub Group (2014) - Paper 08 - 2011 Census data - progress update: <http://gov.wales/docs/dsjlg/minutes/140508-dsg-census-data.pdf>
4. 2014-05-08 - Distribution Sub Group (2014) - Paper 08 - 2011 Census data - progress update (Technical Annex)
<http://gov.wales/docs/dsjlg/minutes/140508-dsg-census-data-technical-annex.pdf>
5. 2014-05-08 - Distribution Sub Group (2014) - Minutes - 8 May 2014
<http://gov.wales/docs/dsjlg/minutes/140508-dsg-minutes.pdf>

Background

1. The Group last discussed the possibility of updating the Census indicators with the 2011 Census-based data in May 2014. At the time of the paper presented at the DSG five out of nine Census indicators used within the Local Government Settlement, based on 2011 Census, results were available, with the remaining indicators becoming available by the end of the year (2014).
2. In the 8 May 2014 Minutes, it was recommended to collect the remaining indicators and carry out in-depth multi-level analysis to investigate the drivers of need within each IBA containing Census data. Furthermore, the group also recognised this would require a large amount of resource and that it should be considered in the context of wider priorities for the DSG going forward. There have been no further papers with regards to the Census indicators.

Analysis

Section 1: Comparison between 2001 and 2011 Census results

6. Annex A compares the 2001 Census data with the 2011 Census data. There are nine indicators within the Local Government Settlement formulae sourced from Census data.
 - i. dependent children in lone adult households;
 - ii. dependent children in households where head is in a low occupational classification;
 - iii. persons aged 65+ with a limiting long-term illness;
 - iv. persons aged 65+ living alone;
 - v. population aged under 18 in wards with weighted density greater than the Welsh average;
 - vi. dependent children in social rented housing;
 - vii. dependent children in overcrowded housing;
 - viii. households where head is aged 18 to 64 with no carer;
 - ix. adults aged 18 to 64 in non-white ethnic groups.
7. The following five indicators were previously analysed in 2014. [Note: this has been extracted from the 2014 paper]:

Persons aged 65+ with a limiting long term illness

8. According to Table 3 there has been an increase of 26,086 in the number of older people with a limiting long term illness in Wales from 2001 to 2011. The largest increase is noted in Caerphilly (2,329), while Denbighshire has the lowest increase of 239. The change in percentage shares across Wales ranges from -0.54 per cent in Swansea to +0.35 per cent in Pembrokeshire.
9. According to the latest Census, 52 per cent of people aged 65+ in England and Wales living in households (i.e. not communal establishments) reported a long term health problem which limited their daily activities. This is an increase from 50 per cent in 2001.

Persons aged 65+ living alone

10. Table 4 shows that there has been an increase of 7,224 in the number of people aged 65+ living alone over the last decade, with increases seen in 18 out of the 22 Local Authorities. Pembrokeshire has the largest increase of 1,062, while Denbighshire shows a decrease of 440. The change in percentage shares across Wales varies from -0.40 per cent in Wrexham to +0.43 per cent in Pembrokeshire.
11. Official statistics show that the number of households overall in Wales has increased by almost 100,000 in the last decade, and over half of this is attributed to an increase in one-person households.

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Population aged under 18 in wards with weighted density greater than the Welsh average

12. According to Table 5 there has been a decrease of 64,504 across Wales in the population under 18 living in dense wards from 2001 to 2011. Rhondda Cynon Taf shows the largest decrease (-12,422), while only Cardiff shows an increase of 2,203. The change in the percentage shares for this indicator varies from -3.85 per cent in Rhondda Cynon Taf to +7.70 per cent in Cardiff.
13. This indicator is not a 'ready made' output from the Census and the creation of it is fairly complex. The average population density (from Census data) across all 881 wards in Wales is calculated and then a threshold is set at 1.5 times greater than this. Wards with a density greater than this threshold meet the criteria to be counted and subsequently the under 18 population within these wards is summed to LA level.
14. When recreating this indicator with 2011 Census data there are 3 Local Authorities with a value of zero (Gwynedd, Pembrokeshire and Ceredigion). This means none of the wards within these Authorities had population densities greater than 1.5 times the Welsh average, and so the population within these wards is not counted.
15. This indicator is used in the Children & Young Persons PSS formula. Research into previous DSG work suggests this methodology was chosen from a number of options by the DSG back in 1998 as the best fitting in statistical terms with expenditure data at the time. There may be better approaches to making use of population density data in the Settlement formulae going forward.

Dependent children in social rented housing

16. Table 6 shows that there has been a decrease of 13,676 across Wales in the number of dependent children in social rented housing over the last decade, with decreases in all but three Local Authorities. The largest decreases from 2001 to 2011 are seen in Caerphilly (-1,352) and Newport (-1,263). The change in percentage shares across Wales ranges from -0.47 per cent in Blaenau Gwent to +0.78 per cent in Cardiff.
17. According to the ONS, social renting has fallen in general over the last decade across England and Wales as a result of transfers of housing stock from Local Authorities to Private Registered Providers (housing associations / registered social landlords). The number of dependent children living in such households will therefore have also decreased.

Adults aged 18 to 64 in non-white ethnic groups

18. Table 9 shows that there have been increases across all Local Authorities in Wales in the number of adults aged 18 to 64 in non-white ethnic groups over the last decade. Cardiff has seen the largest increase of 18,385 people while Blaenau Gwent has lowest increase of 383 people. These increases are in line with the headline analysis published by ONS on the changing diversity of the UK in the last ten years. The change in percentage shares for this indicator varies from -3.73 per cent for Cardiff to +3.27 per cent in Swansea.

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The analyses for the remaining four Census indicators are as follow.

Dependent children in lone adult households

19. Table 1 shows that there has been an increase of 2,434 across Wales in the number of dependent children living in lone adult households over the last decade. Rhondda Cynon Taf has the largest increase of 1,406, while Cardiff shows a decrease of 1,390. The change in percentage shares across Wales varies from -1.19 per cent in Cardiff to +0.90 per cent in Wrexham.

Dependent children in households where head is in a low occupational classification

20. Table 2 shows that there has been an increase of 11,771 across Wales in the number of dependent children in households where head is in a low occupational classification over the last decade. Cardiff has the largest increase of 2,871, while Gwynedd shows a decrease of 278. The change in percentage shares across Wales varies from -0.33 per cent in Gwynedd to +0.80 per cent in Cardiff.

Dependent children in overcrowded housing

21. Table 7 shows that there has been an increase of 2,277 across Wales in the number of dependent children in overcrowded housing over the last decade. The largest decrease from 2001 to 2011 was in Rhondda Cynon Taf (-1,656) whilst the largest increase was in Cardiff (1,797). The change in percentage shares across Wales ranges from -3.23 per cent in Rhondda Cynon Taf to +2.56 per cent in Cardiff.

22. There were significant gaps between the largest decrease and increase compared with the next Local Authority. After Rhondda Cynon Taf the next largest decrease was in Merthyr Tydfil (-174). Likewise, after Cardiff the next largest increase was in Carmarthenshire (+468).

Households where head is aged 18 to 64 with no carer

23. Table 8 shows that there has been an increase of 67,965 across Wales in the Households where head is aged 18 to 64 with no carer over the last decade, with increases in all but two Local Authorities. The largest increase from 2001 to 2011 are seen in Cardiff (15,618) and Swansea (7,143). The change in percentage shares across Wales ranges from -0.23 per cent in Denbighshire to +0.83 per cent in Cardiff.

Conclusion

24. This paper follows on from the previous Census paper in 2014 and provide analyses of the remaining four Census indicators contained within the Settlement formulae.

25. The *Population aged under 18 in wards with weighted density greater than the Welsh average* indicator remained unchanged and require further analysis before further considerations.

26. The most affected IBAs are Older Adults Residential and Domiciliary Care and Children & Young Persons.

27. Reviewing the use of Census indicators within the Settlement can be done in a number of ways. For example, we could assume that the current choice of indicators remains appropriate and simply look to update the weightings in light of the new data through regression analysis. A full review of the five main PSS IBAs could be

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undertaken which considers the current choice of indicators but also looks for possible new indicators, prior to calculating formula weightings. There could be other suggested approaches based on informed statistical and logical analysis, or there could be a strategic decision to remove these nine indicators from the Settlement.

28. In terms of the raw Census data, the indicators related to ethnicity, dependent children, living arrangements and health problems are considered robust and likely to be measured in future Censuses. Careful consideration needs to be given to the use of the population density indicator. Though the underlying raw Census data is robust and readily available, the method for calculating the indicator was chosen by DSG two decades ago.

**Local Government Finance Policy
Welsh Government**

Comparison between 2001 Census and 2011 Census and the IBAs it feed into for the 2017-18 Settlement

Table 1: All dependent children living in one adult households

Local authority	All dependent children living in one adult households					
	2001 Census data		2011 Census data		Difference	
	Persons	Shares	Persons	Shares	Persons	Shares
Isle of Anglesey	3,081	2.2%	2,668	1.9%	-413	-0.32%
Gwynedd	4,890	3.5%	4,656	3.2%	-234	-0.22%
Conwy	4,611	3.3%	4,740	3.3%	129	0.03%
Denbighshire	3,971	2.8%	4,094	2.9%	123	0.04%
Flintshire	5,992	4.2%	6,541	4.6%	549	0.31%
Wrexham	4,824	3.4%	6,203	4.3%	1,379	0.90%
Powys	4,275	3.0%	4,799	3.3%	524	0.31%
Ceredigion	2,421	1.7%	2,217	1.5%	-204	-0.17%
Pembrokeshire	5,749	4.1%	5,860	4.1%	111	0.01%
Carmarthenshire	7,807	5.5%	8,654	6.0%	847	0.50%
Swansea	11,262	8.0%	11,618	8.1%	356	0.11%
Neath Port Talbot	7,104	5.0%	6,523	4.5%	-581	-0.49%
Bridgend	6,146	4.4%	6,649	4.6%	503	0.28%
The Vale of Glamorgan	6,133	4.3%	5,987	4.2%	-146	-0.18%
Rhondda Cynon Taf	11,647	8.3%	13,053	9.1%	1,406	0.84%
Merthyr Tydfil	3,604	2.6%	3,302	2.3%	-302	-0.25%
Caerphilly	9,001	6.4%	9,567	6.7%	566	0.29%
Blaenau Gwent	4,328	3.1%	3,763	2.6%	-565	-0.45%
Torfaen	4,429	3.1%	4,416	3.1%	-13	-0.06%
Monmouthshire	2,875	2.0%	3,098	2.2%	223	0.12%
Newport	8,759	6.2%	8,325	5.8%	-434	-0.41%
Cardiff	18,193	12.9%	16,803	11.7%	-1,390	-1.19%
Wales	141,102	100.0%	143,536	100.0%	2,434	0.00%

Min Cardiff -1.19%
 Max Wrexham 0.90%

Indicator: Dependent children in lone adult households

IBAs:

- Special education (0.033)
- Education administration
- General administration

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Table 2: Dependent children in households where head is in a low occupational classification

Local authority	CT0203 - (NS-SeC) of Household Reference Person (HRP) - Dependent children in households where the head is in NS-SEC Categories 6,7 or 8					
	2001 Census data		2011 Census data		Difference	
	Persons	Shares	Persons	Shares	Persons	Shares
Isle of Anglesey	4,642	2.3%	4,443	2.0%	-199	-0.21%
Gwynedd	7,713	3.8%	7,435	3.4%	-278	-0.33%
Conwy	6,854	3.3%	6,761	3.1%	-93	-0.22%
Denbighshire	6,121	3.0%	6,423	3.0%	302	-0.02%
Flintshire	10,071	4.9%	10,379	4.8%	308	-0.12%
Wrexham	9,360	4.6%	10,584	4.9%	1,224	0.32%
Powys	6,854	3.3%	6,862	3.2%	8	-0.18%
Ceredigion	3,422	1.7%	3,297	1.5%	-125	-0.15%
Pembrokeshire	7,808	3.8%	8,433	3.9%	625	0.08%
Carmarthenshire	11,339	5.5%	12,710	5.8%	1,371	0.33%
Swansea	14,347	7.0%	15,561	7.2%	1,214	0.18%
Neath Port Talbot	10,954	5.3%	11,286	5.2%	332	-0.14%
Bridgend	9,667	4.7%	10,408	4.8%	741	0.09%
The Vale of Glamorgan	6,675	3.2%	7,311	3.4%	636	0.12%
Rhondda Cynon Taf	18,838	9.2%	19,687	9.1%	849	-0.11%
Merthyr Tydfil	5,374	2.6%	5,477	2.5%	103	-0.09%
Caerphilly	15,010	7.3%	15,807	7.3%	797	-0.03%
Blaenau Gwent	7,204	3.5%	7,221	3.3%	17	-0.18%
Torfaen	7,702	3.7%	7,873	3.6%	171	-0.12%
Monmouthshire	4,291	2.1%	4,406	2.0%	115	-0.06%
Newport	11,608	5.6%	12,390	5.7%	782	0.05%
Cardiff	19,726	9.6%	22,597	10.4%	2,871	0.80%
Wales	205,580	100.0%	217,351	100.0%	11,771	0.00%

Min Gwynedd -0.33%
 Max Cardiff 0.80%

Indicator: Dependent children in households where head is in a low occupational classification

IBAs:

- Special education (0.033)
- Education administration
- General administration

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Table 3: Persons aged 65+ with a limiting long term illness

Local authority	Persons aged 65+ with a limiting long term illness					
	2001 Census data		2011 Census data		Difference	
	Persons	Shares	Persons	Shares	Persons	Shares
Isle of Anglesey	6,727	2.3%	8,363	2.6%	1,636	0.32%
Gwynedd	11,558	3.9%	12,968	4.0%	1,410	0.12%
Conwy	13,134	4.4%	14,433	4.5%	1,299	0.04%
Denbighshire	10,560	3.6%	10,799	3.3%	239	-0.21%
Flintshire	12,231	4.1%	14,296	4.4%	2,065	0.31%
Wrexham	12,071	4.1%	12,677	3.9%	606	-0.14%
Powys	12,786	4.3%	14,915	4.6%	2,129	0.31%
Ceredigion	6,930	2.3%	7,932	2.5%	1,002	0.12%
Pembrokeshire	11,520	3.9%	13,666	4.2%	2,146	0.35%
Carmarthenshire	20,452	6.9%	22,628	7.0%	2,176	0.12%
Swansea	24,912	8.4%	25,369	7.9%	457	-0.54%
Neath Port Talbot	16,743	5.6%	17,335	5.4%	592	-0.27%
Bridgend	13,673	4.6%	15,369	4.8%	1,696	0.15%
The Vale of Glamorgan	11,100	3.7%	12,094	3.7%	994	0.01%
Rhondda Cynon Taf	25,707	8.7%	26,382	8.2%	675	-0.49%
Merthyr Tydfil	6,293	2.1%	6,607	2.0%	314	-0.07%
Caerphilly	17,321	5.8%	19,650	6.1%	2,329	0.25%
Blaenau Gwent	7,922	2.7%	8,347	2.6%	425	-0.08%
Torfaen	9,521	3.2%	9,968	3.1%	447	-0.12%
Monmouthshire	7,863	2.6%	9,535	3.0%	1,672	0.30%
Newport	12,976	4.4%	13,880	4.3%	904	-0.07%
Cardiff	24,925	8.4%	25,798	8.0%	873	-0.41%
Wales	296,925	100.0%	323,011	100.0%	26,086	0.00%

Min Swansea -0.54%
 Max Pembrokeshire 0.35%

Indicator: Pensioners with a limiting long-term illness

IBAs:

- Older adults' residential and domiciliary care (0.321)
- Increasing capital limits for residential care (0.273)
- PSS administration
- General administration

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Table 4: Persons aged 65+ living alone

Local authority	Persons aged 65+ living alone					
	2001 Census data		2011 Census data		Difference	
	Persons	Shares	Persons	Shares	Persons	Shares
Isle of Anglesey	4,136	2.4%	4,802	2.7%	666	0.28%
Gwynedd	7,745	4.5%	8,701	4.9%	956	0.35%
Conwy	8,417	4.9%	8,748	4.9%	331	-0.01%
Denbighshire	6,587	3.8%	6,147	3.4%	-440	-0.40%
Flintshire	7,418	4.3%	8,200	4.6%	782	0.26%
Wrexham	7,262	4.2%	7,334	4.1%	72	-0.13%
Powys	8,303	4.9%	9,201	5.2%	898	0.31%
Ceredigion	4,643	2.7%	4,878	2.7%	235	0.02%
Pembrokeshire	6,916	4.0%	7,978	4.5%	1,062	0.43%
Carmarthenshire	11,492	6.7%	11,652	6.5%	160	-0.18%
Swansea	13,713	8.0%	13,867	7.8%	154	-0.24%
Neath Port Talbot	8,710	5.1%	8,396	4.7%	-314	-0.38%
Bridgend	6,989	4.1%	7,659	4.3%	670	0.21%
The Vale of Glamorgan	6,140	3.6%	7,057	4.0%	917	0.37%
Rhondda Cynon Taf	13,088	7.6%	13,173	7.4%	85	-0.26%
Merthyr Tydfil	3,278	1.9%	3,026	1.7%	-252	-0.22%
Caerphilly	8,960	5.2%	9,143	5.1%	183	-0.11%
Blaenau Gwent	4,513	2.6%	4,310	2.4%	-203	-0.22%
Torfaen	5,182	3.0%	5,249	2.9%	67	-0.09%
Monmouthshire	4,874	2.8%	5,515	3.1%	641	0.24%
Newport	7,446	4.4%	7,862	4.4%	416	0.06%
Cardiff	15,298	8.9%	15,436	8.7%	138	-0.28%
Wales	171,110	100.0%	178,334	100.0%	7,224	0.00%

Min Denbighshire -0.40%
 Max Pembrokeshire 0.43%

Indicator: Pensioners living alone in households

IBAs:

- Older adults' residential and domiciliary care (0.304)
- Increasing capital limits for residential care (0.258)
- PSS administration
- General administration

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Table 5: Population aged under 18 in wards with weighted density greater than the Welsh average

Local authority	Population aged under 18 in wards with weighted density greater than the Welsh average					
	2001 Census data		2011 Census data		Difference	
	Persons	Shares	Persons	Shares	Persons	Shares
Isle of Anglesey	541	0.2%	471	0.2%	-70	0.02%
Gwynedd	1,561	0.5%	0	0.0%	-1,561	-0.55%
Conwy	9,927	3.5%	6,585	3.0%	-3,342	-0.50%
Denbighshire	8,356	2.9%	7,508	3.4%	-848	0.47%
Flintshire	6,296	2.2%	4,876	2.2%	-1,420	0.00%
Wrexham	11,534	4.0%	7,154	3.2%	-4,380	-0.80%
Powys	1,902	0.7%	968	0.4%	-934	-0.23%
Ceredigion	856	0.3%	0	0.0%	-856	-0.30%
Pembrokeshire	3,084	1.1%	0	0.0%	-3,084	-1.08%
Carmarthenshire	8,978	3.1%	5,500	2.5%	-3,478	-0.66%
Swansea	34,952	12.2%	29,459	13.3%	-5,493	1.08%
Neath Port Talbot	10,618	3.7%	8,428	3.8%	-2,190	0.09%
Bridgend	10,173	3.6%	7,502	3.4%	-2,671	-0.17%
The Vale of Glamorgan	17,174	6.0%	15,534	7.0%	-1,640	1.01%
Rhondda Cynon Taf	17,244	6.0%	4,822	2.2%	-12,422	-3.85%
Merthyr Tydfil	8,178	2.9%	2,726	1.2%	-5,452	-1.63%
Caerphilly	20,890	7.3%	15,089	6.8%	-5,801	-0.49%
Blaenau Gwent	2,435	0.9%	999	0.5%	-1,436	-0.40%
Torfaen	11,216	3.9%	6,796	3.1%	-4,420	-0.85%
Monmouthshire	3,740	1.3%	1,886	0.9%	-1,854	-0.46%
Newport	30,482	10.7%	27,127	12.2%	-3,355	1.59%
Cardiff	65,880	23.0%	68,083	30.7%	2,203	7.70%
Wales	286,017	100.0%	221,513	100.0%	-64,504	0.00%

Min Rhondda Cynon Taf -3.85%
 Max Cardiff 7.70%

Indicator: Population aged under 18 in wards with weighted density greater than the Welsh average

IBAs:

- Children and young persons (0.055)
- PSS administration
- General administration

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Table 6: Dependent children in social rented housing

Local authority	Dependent children in social rented housing					
	2001 Census data		2011 Census data		Difference	
	Persons	Shares	Persons	Shares	Persons	Shares
Isle of Anglesey	3,215	2.2%	2,505	1.9%	-710	-0.31%
Gwynedd	6,290	4.3%	5,478	4.1%	-812	-0.17%
Conwy	4,075	2.8%	3,524	2.7%	-551	-0.13%
Denbighshire	3,752	2.6%	3,451	2.6%	-301	0.04%
Flintshire	6,667	4.5%	6,037	4.5%	-630	-0.01%
Wrexham	8,422	5.7%	8,459	6.4%	37	0.62%
Powys	5,069	3.5%	4,549	3.4%	-520	-0.04%
Ceredigion	2,319	1.6%	1,711	1.3%	-608	-0.29%
Pembrokeshire	6,483	4.4%	5,819	4.4%	-664	-0.04%
Carmarthenshire	7,206	4.9%	6,721	5.1%	-485	0.14%
Swansea	10,749	7.3%	10,760	8.1%	11	0.76%
Neath Port Talbot	7,128	4.9%	6,720	5.1%	-408	0.19%
Bridgend	5,164	3.5%	4,731	3.6%	-433	0.04%
The Vale of Glamorgan	4,868	3.3%	3,812	2.9%	-1,056	-0.45%
Rhondda Cynon Taf	9,274	6.3%	8,206	6.2%	-1,068	-0.15%
Merthyr Tydfil	3,761	2.6%	3,536	2.7%	-225	0.09%
Caerphilly	10,425	7.1%	9,073	6.8%	-1,352	-0.29%
Blaenau Gwent	5,115	3.5%	4,018	3.0%	-1,097	-0.47%
Torfaen	6,767	4.6%	5,799	4.4%	-968	-0.25%
Monmouthshire	3,093	2.1%	3,113	2.3%	20	0.23%
Newport	9,327	6.4%	8,064	6.1%	-1,263	-0.30%
Cardiff	17,399	11.9%	16,806	12.6%	-593	0.78%
Wales	146,568	100.0%	132,892	100.0%	-13,676	0.00%

Blaenau Gwent -0.47%
Cardiff 0.78%

Indicator: Dependent children in social rented housing

IBAs:

- Children and young persons (0.133)
- PSS administration
- General administration

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Table 7: Dependent children in overcrowded housing

Local authority	CT0217 - Dependent children in overcrowded housing (Occupancy rating (bedrooms) of -1 or less)					
	2001 Census data		2011 Census data		Difference	
	Persons	Shares	Persons	Shares	Persons	Shares
Isle of Anglesey	1,089	1.9%	989	1.7%	-100	-0.25%
Gwynedd	2,050	3.7%	2,215	3.8%	165	0.14%
Conwy	1,640	2.9%	1,967	3.4%	327	0.45%
Denbighshire	1,883	3.4%	1,920	3.3%	37	-0.07%
Flintshire	2,626	4.7%	2,833	4.9%	207	0.17%
Wrexham	2,665	4.8%	3,070	5.3%	405	0.51%
Powys	1,633	2.9%	1,816	3.1%	183	0.20%
Ceredigion	1,189	2.1%	1,135	1.9%	-54	-0.18%
Pembrokeshire	2,072	3.7%	2,180	3.7%	108	0.04%
Carmarthenshire	2,557	4.6%	3,025	5.2%	468	0.62%
Swansea	4,337	7.7%	4,326	7.4%	-11	-0.32%
Neath Port Talbot	2,014	3.6%	2,142	3.7%	128	0.08%
Bridgend	2,078	3.7%	2,033	3.5%	-45	-0.22%
The Vale of Glamorgan	1,874	3.3%	1,713	2.9%	-161	-0.41%
Rhondda Cynon Taf	5,577	9.9%	3,921	6.7%	-1,656	-3.23%
Merthyr Tydfil	1,651	2.9%	1,477	2.5%	-174	-0.41%
Caerphilly	3,826	6.8%	3,732	6.4%	-94	-0.43%
Blaenau Gwent	1,643	2.9%	1,583	2.7%	-60	-0.22%
Torfaen	1,908	3.4%	1,991	3.4%	83	0.01%
Monmouthshire	960	1.7%	1,401	2.4%	441	0.69%
Newport	3,267	5.8%	3,550	6.1%	283	0.26%
Cardiff	7,525	13.4%	9,322	16.0%	1,797	2.56%
Wales	56,064	100.0%	58,341	100.0%	2,277	0.00%

Min Rhondda Cynon Taf -3.23%
 Max Cardiff 2.56%

Indicator: Dependent children in overcrowded housing

IBAs:

- Children and young persons (0.098)
- PSS administration
- General administration

Dependent children in overcrowded housing (2011 Census only)

	R Square
Total: All dependent children	0.773
Occupancy rating (bedrooms) of +2 or more	0.562
Occupancy rating (bedrooms) of +1	0.831
Occupancy rating (bedrooms) of 0	0.779
Occupancy rating (bedrooms) of -1	0.531
Occupancy rating (bedrooms) of -1 or less	0.498
Occupancy rating (bedrooms) of -2 or less	0.333

Distribution Sub-Group (2017) Paper 12 – 2011 Census-based data

Table 8: Households where head is aged 18 to 64 with no carer

Local authority	Households where head is aged 18 to 64 with no carer					
	2001 Census data		2011 Census data		Difference	
	Persons	Shares	Persons	Shares	Persons	Shares
Isle of Anglesey	22,846	2.4%	24,441	2.4%	1,595	0.00%
Gwynedd	40,544	4.2%	42,948	4.2%	2,404	-0.05%
Conwy	38,694	4.1%	40,786	4.0%	2,092	-0.06%
Denbighshire	31,816	3.3%	31,748	3.1%	-68	-0.23%
Flintshire	48,409	5.1%	50,529	4.9%	2,120	-0.13%
Wrexham	42,057	4.4%	45,510	4.5%	3,453	0.04%
Powys	43,317	4.5%	46,160	4.5%	2,843	-0.02%
Ceredigion	25,162	2.6%	25,091	2.5%	-71	-0.18%
Pembrokeshire	38,100	4.0%	41,628	4.1%	3,528	0.08%
Cardiff	100,385	10.5%	116,003	11.3%	15,618	0.83%
Wales	954,274	100.0%	1,022,239	100.0%	67,965	0.00%

Min Denbighshire -0.23%
 Max Cardiff 0.83%

Indicator: Households where head is aged 18 to 64 with no carer

IBAs:

- Younger adults' personal social services (0.158)
- Increasing capital limits for residential care (0.024)
- PSS administration
- General administration

Households where head is aged 18 to 64 with no carer (2011 Census only)

	R-Square
No unpaid carers	0.782
One unpaid carer	0.893
2 unpaid carers	0.889
3 unpaid carers	0.859
4 unpaid carers	0.840
5 unpaid carers	0.666
6 or more unpaid carers	0.123

Distribution Sub-Group (2017) Paper 12 – 2011 Census-based data

Table 9: Adults aged 18 to 64 in non-white ethnic groups

Local authority	Adults aged 18 to 64 in non-white ethnic groups					
	2001 Census data		2011 Census data		Difference	
	Persons	Shares	Persons	Shares	Persons	Shares
Isle of Anglesey	273	0.8%	817	0.9%	544	0.18%
Gwynedd	844	2.3%	3,115	3.6%	2,271	1.24%
Conwy	651	1.8%	1,657	1.9%	1,006	0.10%
Denbighshire	609	1.7%	1,501	1.7%	892	0.04%
Flintshire	681	1.9%	1,512	1.7%	831	-0.15%
Wrexham	872	2.4%	2,854	3.3%	1,982	0.86%
Powys	596	1.6%	1,259	1.4%	663	-0.20%
Ceredigion	677	1.9%	1,792	2.0%	1,115	0.19%
Pembrokeshire	560	1.5%	1,434	1.6%	874	0.10%
Carmarthenshire	984	2.7%	2,107	2.4%	1,123	-0.30%
Swansea	2,938	8.1%	9,931	11.3%	6,993	3.27%
Neath Port Talbot	844	2.3%	1,663	1.9%	819	-0.42%
Bridgend	1,102	3.0%	1,964	2.2%	862	-0.79%
The Vale of Glamorgan	1,468	4.0%	2,749	3.1%	1,281	-0.90%
Rhondda Cynon Taf	1,699	4.7%	4,521	5.2%	2,822	0.49%
Merthyr Tydfil	371	1.0%	944	1.1%	573	0.06%
Caerphilly	970	2.7%	1,916	2.2%	946	-0.48%
Blaenau Gwent	330	0.9%	713	0.8%	383	-0.09%
Torfaen	463	1.3%	1,200	1.4%	737	0.10%
Monmouthshire	565	1.6%	1,073	1.2%	508	-0.33%
Newport	3,501	9.6%	9,079	10.4%	5,578	0.75%
Cardiff	15,387	42.3%	33,772	38.6%	18,385	-3.73%
Wales	36,385	100.0%	87,573	100.0%	51,188	0.00%

Min

Cardiff

-3.73%

Max

Swansea

3.27%

Indicator: Adults aged 18 to 64 in non-white ethnic groups

IBAs:

- Younger adults' personal social services (0.013)
- Increasing capital limits for residential care (0.002)
- PSS administration
- General administration