

12 August 2015

## Revision to Welsh Index of Multiple Deprivation (WIMD) 2014 Note on key changes

This is to inform users that the Welsh Index of Multiple Deprivation 2014 has been revised following identification of an error in the raw data used to prepare the index. This note outlines the key changes users may wish to be aware of.

### Detail of the error

The Department for Work and Pensions (DWP) discovered an error in the income indicator data they had provided for the income domain of WIMD which relates to the accidental exclusion of some data on tax credits.

### Impact of the error

#### *Data affected*

Underlying income indicator data for 2014 by Lower Super Output Area (LSOA) is affected, along with data for Communities First areas. DWP continue to investigate a possible impact on 2012 and 2013 income indicator data and we will revise this older data where necessary in due course.

The 2014 income indicator data feeds through to the Income domain ranks, and overall WIMD 2014 ranks. We have analysed the scale of the error and a summary of the results is shown below.

### Outputs

Statistical outputs affected by this revision include the Summary Report, Executive Summary, StatsWales data and interactive WIMD website. All WIMD 2014 products were revised on 12 August except for some StatsWales income indicator data (for higher level geographies) which will be revised soon. The revision has been phased in this way due to the amount of processing and checking involved, to avoid delaying revision to products containing the LSOA ranks and LSOA indicator data.

### Summary of Changes

#### WIMD – Overall Index

The impact on the overall WIMD rankings is as follows:

- Of the 1909 LSOAs, the majority (94%) have a different rank
- However for most LSOAs the change is small:
  - 58% will remain within 5 places (out of 1909)
  - 80% will remain within 10 places
  - 95% will remain within 20 places
- Relatively few of the LSOAs move between WIMD deciles (less than 5%)
- No LSOAs move by more than one decile

Tables 1 and 2 show the difference in ten most deprived LSOAs in Wales based on the original and revised ranks for WIMD 2014.

**Table 1 WIMD 2014 Overall most deprived LSOA ranks – Revised August 2015**

LSOA	Local Authority	LSOA Name	WIMD 2011 Rank	WIMD 2014 Rank
W01001421	Caerphilly	St. James 3	2	1
W01000240	Denbighshire	Rhyl West 2	1	2
W01000413	Wrexham	Queensway 1	9	3
W01001874	Cardiff	Splott 6	36	4
W01001274	Rhondda Cynon Taf	Tylorstown 1	10	5
W01000991	Bridgend	Caerau (Bridgend) 1	8	6
W01001428	Caerphilly	Twyn Carno 1	3	7
W01001303	Merthyr Tydfil	Merthyr Vale 2	17	8
W01001222	Rhondda Cynon Taf	Pen-y-waun 2	15	9
W01001662	Newport	Pillgwenlly 4	27	10

**Table 2 WIMD 2014 Overall most deprived LSOA ranks – Published November 2014**

LSOA	Local Authority	LSOA Name	WIMD 2011 Rank	WIMD 2014 Rank
W01001421	Caerphilly	St. James 3	2	1
W01000240	Denbighshire	Rhyl West 2	1	2
W01000413	Wrexham	Queensway 1	9	3
W01001274	Rhondda Cynon Taf	Tylorstown 1	10	4
W01000991	Bridgend	Caerau (Bridgend) 1	8	5
W01001428	Caerphilly	Twyn Carno 1	3	6
W01001222	Rhondda Cynon Taf	Pen-y-waun 2	15	7
W01001303	Merthyr Tydfil	Merthyr Vale 2	17	8
W01001874	Cardiff	Splott 6	36	9
W01000239	Denbighshire	Rhyl West 1	7	10

The effect of the revision can be seen by comparing Table 1 and Table 2, notably:

- The 'top 3' has not changed
- Splott 6 has moved up to 4<sup>th</sup> most deprived overall
- Rhyl West 1 is no longer in the 'top 10' and has been replaced by Pillgwenlly 4.
- The remaining LSOAs have changed places

Table 3 shows the effect of the revision on the LSOAs by deprivation group. On the whole most LSOAs are in the same group as before the revision. No LSOAs have moved more than one group due to the revision.

**Table 3 Changes to WIMD 2014 LSOA ranks by group, Original and Revised**

		WIMD 2014 Revised					
		10% most deprived (ranks 1-191)	10-20% most deprived (ranks 192-382)	20-30% most deprived (ranks 383-573)	30-50% most deprived (ranks 574-955)	50% least deprived (ranks 956-1,909)	Total (ranks 1-1,909)
<b>WIMD 2014 Original</b>	10% most deprived (ranks 1-191)	<b>190</b>	1	0	0	0	191
	10-20% most deprived (ranks 192-382)	1	<b>186</b>	4	0	0	191
	20-30% most deprived (ranks 383-573)	0	4	<b>185</b>	2	0	191
	30-50% most deprived (ranks 574-955)	0	0	2	<b>376</b>	4	382
	50% least deprived (ranks 956-1,909)	0	0	0	4	<b>950</b>	954
	<b>Total</b> (ranks 1-1,909)	191	191	191	382	954	<b>1,909</b>

**WIMD – Income Domain**

The impact on the Income Domain is more noticeable as follows:

- Of the 1909 LSOAs, the majority (98%) have a different rank
- However for most LSOAs the change is small:
  - 21% will remain within 5 places (out of 1909)
  - 35% will remain within 10 places
  - 60% will remain within 20 places
- Just over 10% of LSOAs have moved between WIMD deciles
- One LSOA has moved by more than one decile

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