

## Urban/Rural Census Geography Guidance

The geographies Urban/Rural and SIMD are not available on the CDE. However, it is possible to aggregate Census data from Output Area to one of these geographies. Here is an example:

### 1. Download table at Output Area level

The required table must be downloaded at Output Area level through the Data Warehouse. Instructions for this can be found [here](#). In our example we have used table KS202SC:

	All people	Scottish id	British id	Scottish al	Scottish al	English id	Any other	Other id	Other identity and at least one UK identity
Scotland	5,295,403	3,306,138	443,275	968,759	102,028	120,990	104,434	234,062	15,717
SO008895	230	136	39	24	4	8	3	16	-
SO008895	66	29	6	20	3	1	2	5	-
SO008895	90	33	17	22	1	4	2	8	3
SO008895	83	51	9	9	1	4	2	7	-
SO008895	68	25	9	16	5	5	2	5	1
SO008896	217	76	33	4	11	31	12	47	3
SO008896	86	15	10	33	11	6	6	3	2
SO008896	89	40	19	23	2	3	2	-	-
SO008896	88	39	7	25	3	2	5	6	1
SO008896	144	81	10	31	4	7	6	3	2
SO008896	120	68	23	10	4	5	3	5	2
SO008896	52	40	3	6	1	1	1	-	-
SO008896	56	21	4	19	3	-	1	8	-
SO008896	154	116	7	24	-	-	1	5	1
SO008897	105	33	8	22	4	9	6	23	-
SO008897	78	36	9	8	4	2	3	13	3
SO008897	129	56	13	15	4	3	4	33	1
SO008897	144	77	18	20	5	1	1	22	-
SO008897	120	76	21	11	4	2	-	5	1
SO008897	77	30	12	9	4	2	4	15	1
SO008897	69	29	10	10	3	-	2	15	-
SO008897	60	22	7	9	1	2	1	17	1
SO008897	60	36	15	5	2	-	1	1	-
SO008897	85	36	7	13	1	3	3	21	1
SO008898	66	23	10	17	1	2	1	12	-
SO008898	57	21	5	14	2	3	1	9	2
SO008898	66	23	6	12	2	3	3	16	1
SO008898	65	39	5	9	5	2	1	4	-
SO008898	55	31	4	14	1	-	-	4	1
SO008898	80	23	11	13	2	1	3	26	1
SO008898	131	53	5	23	3	6	5	35	1
SO008898	63	27	6	9	1	-	2	17	1
SO008898	67	45	2	12	-	1	1	6	-
SO008898	95	29	8	10	6	1	1	40	-
SO008899	107	56	9	11	4	1	1	25	-
SO008899	127	34	13	12	5	6	2	54	1
SO008899	541	130	84	43	15	48	50	157	14
SO008899	123	52	27	11	1	4	2	26	-
SO008899	57	29	5	8	3	2	-	10	-

### 2. Add Urban/Rural Geography

A lookup from Output Area to Urban/ Rural geography can be found on the [NRS website](#).

#### New look-ups

[Output Area 2011 to Urban Rural 2013-14](#) (Excel 1.33 MB)

This file provides a look-up between the 2011 Output Area code and the new Urban Rural Classification 2013-14. The file also contains a code and name look-up for these areas and their relationship to each other.

We now want to attach each Output Area with an Urban Rural Geography Code.

The file lists each Output Area with a corresponding Urban Rural geography code. You will notice there are four types of Urban Rural geographies – an 8 fold, a 6 fold, a 3 fold and a 2 fold classification.

The screenshot shows an Excel spreadsheet with the following data:

OutputArea2011Code	UrbanRural8Fold2013_14Code	UrbanRural6Fold2013_14Code	UrbanRural3Fold2013_14Code	UrbanRural2Fold2013_14Code
500088956	3	3	1	1
500088957	6	2	2	2
500088958	3	3	1	1
500088959	6	5	2	2
500088960	6	5	2	2
500088961	6	5	2	2
500088962	6	5	2	2
500088963	6	5	2	2
500088964	3	3	1	1
500088965	6	5	2	2
500088966	6	5	2	2
500088967	6	5	2	2
500088968	6	5	2	2
500088969	6	5	2	2
500088970	1	1	1	1
500088971	1	1	1	1
500088972	1	1	1	1
500088973	1	1	1	1
500088974	1	1	1	1
500088975	1	1	1	1
500088976	1	1	1	1
500088977	1	1	1	1
500088978	1	1	1	1
500088979	1	1	1	1
500088980	1	1	1	1
500088981	1	1	1	1
500088982	1	1	1	1
500088983	1	1	1	1
500088984	1	1	1	1
500088985	1	1	1	1
500088986	1	1	1	1
500088987	1	1	1	1
500088988	1	1	1	1
500088989	1	1	1	1
500088990	1	1	1	1
500088991	1	1	1	1
500088992	1	1	1	1

In this example we will select the 8 fold classification. The contents of column B, highlighted in the above picture, can be copied and pasted into the table. This should match up exactly to the Output Areas in the table, although it is always best to sort the Output Area column from A to Z anyway.

After copying the Urban Rural geography into the table, it should now look like this:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Scotland's Census 2011 - National Records of Scotland													
2	Table KS202SC - National identity													
3	All people													
4														
5		Urban Rural	All people	Scottish id	British ider	Scottish a	Scottish a	English id	Any other	Other iden	Other identity and at least one UK identity			
6	Scotland	Total	5,295,403	3,306,138	443,275	968,759	102,028	120,990	104,434	234,062	15,717			
7	S00088956		3	230	136	39	24	4	8	3	16 -			
8	S00088957		6	66	29	6	20	3	1	2	5 -			
9	S00088958		3	90	33	17	22	1	4	2	8 3			
10	S00088959		6	83	51	9	9	1	4	2	7 -			
11	S00088960		6	68	25	9	16	5	5	2	5 1			
12	S00088961		6	217	76	33	4	11	31	12	47 3			
13	S00088962		6	86	15	10	33	11	6	6	3 2			
14	S00088963		6	89	40	19	23	2	3	2 -	-			
15	S00088964		3	88	39	7	25	3	2	5	6 1			
16	S00088965		6	144	81	10	31	4	7	6	3 2			
17	S00088966		6	120	68	23	10	4	5	3	5 2			
18	S00088967		6	52	40	3	6	1	1	1 -	-			
19	S00088968		6	56	21	4	19	3 -		1	8 -			
20	S00088969		6	154	116	7	24 -		1 -		5 1			
21	S00088970		1	105	33	8	22	4	9	6	23 -			
22	S00088971		1	78	36	9	8	4	2	3	13 3			
23	S00088972		1	129	56	13	15	4	3	4	33 1			
24	S00088973		1	144	77	18	20	5	1	1	22 -			
25	S00088974		1	120	76	21	11	4	2 -		5 1			
26	S00088975		1	77	30	12	9	4	2	4	15 1			
27	S00088976		1	69	29	10	10	3 -		2	15 -			
28	S00088977		1	60	22	7	9	1	2	1	17 1			
29	S00088978		1	60	36	15	5	2 -		1	1 -			
30	S00088979		1	85	36	7	13	1	3	3	21 1			
31	S00088980		1	66	23	10	17	1	2	1	12 -			

### 3. Aggregate up to Urban Rural using a pivot table

It is now possible to use a pivot table to sum up the totals for each Urban/Rural classification. Click on the Pivot table button which can be found in the 'Insert' tab in Excel.



The following will appear:

The screenshot shows an Excel spreadsheet with the following data table:

	Urban Rural	All people	Scottish id	British ider	Scottish a	Scottish a	English ide	Any other	Other iden	Other identity and
6	Scotland Total	5,295,403	3,306,138	443,275	968,759	102,028	120,990	104,434	234,062	15,717
7	S00088950	3	230	136	39	24	4	8	3	16
8	S00088950	6	66	29	6	20	3	1	2	5
9	S00088950	3	90	33	17	22	1	4	2	8
10	S00088950	6	83	51	9	9	1	4	2	7
11	S00088960	6	68	25	9	16	5	5	2	5
12	S00088960	6	217	76	33	4	11	31	12	47
13	S00088960	6	86	15	10	33	11	6	6	3
14	S00088960	6	89	40	19	23	2	3	2	-
15	S00088960	3	88	39	7	25	3	2	5	6
16	S00088960	6	144	81	10	31	4	7	6	3
17	S00088960	6	120	68	23	10	4	5	3	5
18	S00088960	6	52	40	3	6	1	1	1	-
19	S00088960	6	56	21	4	19	3	-	1	8
20	S00088960	6	-	-	-	-	-	-	-	5
21	S00088970	1	-	-	-	-	-	-	-	23
22	S00088970	1	-	-	-	-	-	-	-	13
23	S00088970	1	-	-	-	-	-	-	-	33
24	S00088970	1	-	-	-	-	-	-	-	22
25	S00088970	1	-	-	-	-	-	-	-	5
26	S00088970	1	-	-	-	-	-	-	-	15
27	S00088970	1	-	-	-	-	-	-	-	15
28	S00088970	1	-	-	-	-	-	-	-	17
29	S00088970	1	-	-	-	-	-	-	-	1
30	S00088970	1	-	-	-	-	-	-	-	1
31	S00088980	1	-	-	-	-	-	-	-	21
32	S00088980	1	-	-	-	-	-	-	-	12
33	S00088980	1	-	-	-	-	-	-	-	9
34	S00088980	1	-	-	-	-	-	-	-	16
35	S00088980	1	-	-	-	-	-	-	-	4
36	S00088980	1	-	-	-	-	-	-	-	4
37	S00088980	1	-	-	-	-	-	-	-	26
38	S00088980	1	131	53	5	23	3	6	5	35
			63	27	6	9	1	-	2	17

The 'Create PivotTable' dialog box is open, showing the following settings:

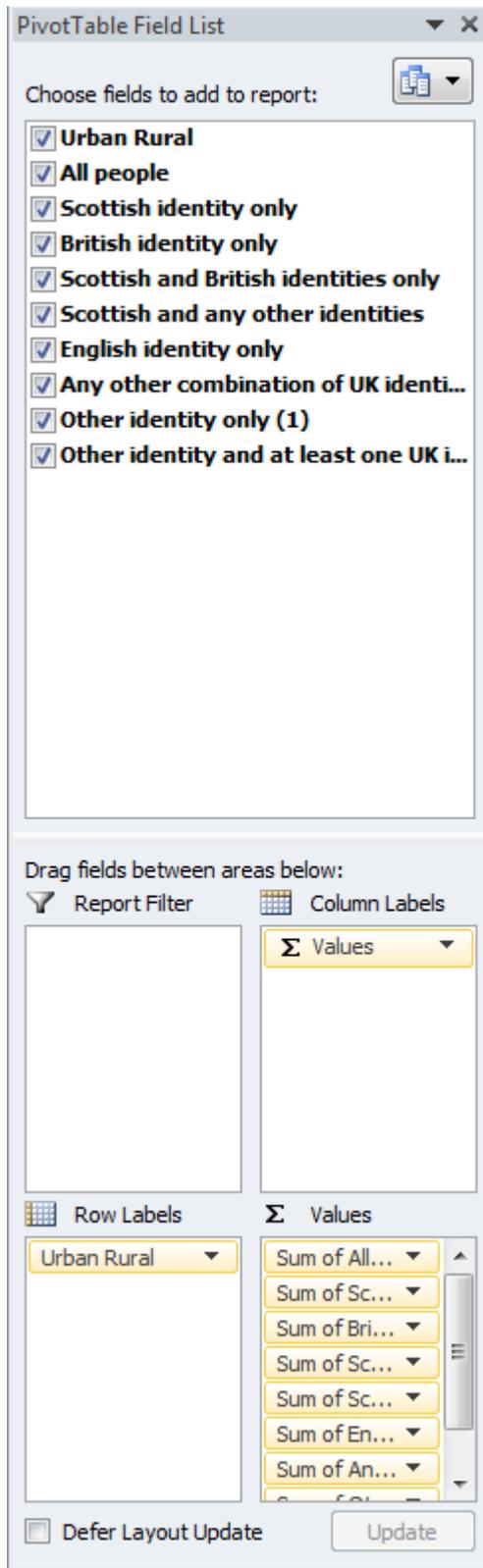
- Choose the data that you want to analyze:
  - Select a table or range
  - Table/Range: `KS202SC!$B$5:$K$46357`
  - Use an external data source
- Choose where you want the PivotTable report to be placed:
  - New Worksheet
  - Existing Worksheet
  - Location:

Make sure you have selected the whole table, excluding the Output Area column. When you click OK the Pivot table will appear in a new worksheet.

#### 4. Create Table

To create the required table, first drag 'Urban Rural' into the 'Row Labels' section. Then drag the rest of the fields into the 'Values' section. All fields in the 'Values' section need to be a Sum and not a count. If it is a count, this can be changed by clicking on the variable and selecting 'Value Field Settings'. You can then choose to summarize variable as a Sum rather than a count.

The Field list should look like this:



All that needs to be done now is to remove the 'Grand Total'. This is because there is already a total in the table. To do this, right click on 'Grand Total' and select 'Remove Grand Total'.

The table is now complete :

Row Labels	Sum of All people	Sum of Scottish identity only	Sum of British identity only	Sum of Scottish and British identities only	Sum of Scottish a
1	1823189	1068471	161860	330383	
2	1861851	1246740	127126	349441	
3	491901	315542	39956	94352	
4	115282	75062	9132	19004	
5	68091	45747	5091	11107	
6	615313	369573	61429	115574	
7	167428	94786	20459	26556	
8	152348	90217	18222	22342	
Total	5295403	3306138	443275	968759	

**PivotTable Field List Configuration:**

- Choose fields to add to report:
  - Urban Rural
  - All people
  - Scottish identity only
  - British identity only
  - Scottish and British identities only
  - Scottish and any other identities
  - English identity only
  - Any other combination of UK identi...
  - Other identity only (1)
  - Other identity and at least one UK L...
- Drag fields between areas below:
  - Report Filter: (Empty)
  - Column Labels: (Empty)
  - Values: Σ Values
- Row Labels: Urban Rural
- Values:
  - Sum of All...
  - Sum of Sc...
  - Sum of Br...
  - Sum of Sc...
  - Sum of Sc...
  - Sum of En...
  - Sum of An...

This same process can be used for aggregating up to other geographies that are not on the Census website. For example, an SIMD geography can be aggregated using a Data zone to SIMD lookup.