

2001 Census

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Outline

- **One Number Census**
- **SDC issues in 2001 Census**

- **Standard Outputs**
- **Double Geography**

- **Advice**

2001 One Number Census

- **The answer to 1991 Census users' needs**
 - All perturbation contained in the database
 - All tables internally consistent
 - Consistent data across geographies
 - Only one 'population'
- **The reality**
 - Small cell adjustment
 - Tables still internally consistent!
 - Loss of cross-table consistency
 - Loss of additive consistency
 - Any 'population' - you choose

2001 SDC Measures

- **Low response**
- **Imputation of missing records**
- **Imputation of missing variables**
- **Record swapping between areas**

- **Combined categories for OA output variables**

- **SCAMing**

Additional 'Measures'

- **In over 60 LAs in E&W the 2001 MYE were significantly altered from original 2001 Census-based estimates**
 - 'lost forms'
 - Demographic Analysis
 - Address Matching
 - LA Studies
- **275k 'missed' in E&W, of which 134k in London**
 - ie 1 in 189 missed in E&W; 1 in 53 in London
- **Time Delay from enumeration to delivery**

Who Benefited?

- **Individuals?**
- **National Statistician & ONS?**
- **Researchers?**
- **General Users?**

Standard Outputs

- **Comparisons across tables**
 - Different figures – confusion
- **Summation (ie OAs to Wards)**
 - Inconsistency
- **Producing Indicators**
 - Numerator and Denominator from different tables
 - Inconsistency leading to dubious comparability
 - Not adequate for modelling

Origin-Destination Data

- Comparisons: SWS and Theme Tables

Workers in Clementswood Ward (Redbridge)

	SWS301	TT10	Diff.
All	8810	8059	751
Underground	303	263	40
Car Driver	4646	4005	641
Bus	1567	1554	13

Origin-Destination Data

Workers in Hyde Park Ward (Westminster)

	SWS301	TT10	Diff.
All	17024	16712	312
Underground	5739	5298	441
Car Driver	2779	2954	-175
Bus	1835	1852	-17

- Why the differences?
 - Different SDC in each table
 - Relative sparcity of certain modes of travel
 - Summation through OAs

Origin-Destination Data

- **Ethnic Migration into London Boroughs**
 - Ten Ethnic Groups
 - 32x32 Matrix plus 11 other origins
 - 5-year ages and gender
- **550k cells and 1018k migrants**
- **Majority of cells SCAMed or true zero**
- **3 Bangladeshis ‘moved’ from Bexley to Bromley – all age ‘0’**

- **Difficult to trust summed data**
- **Fit for Purpose?**

Advice: to Users

- **Summed cells**
 - use row, column, and table totals with minimum number of primary cells
- **Individual cells**
 - model to ‘best estimate’ of total
- **Scrutinise Indicators for out of range**
 - choose another indicator
- **Commission your own tables – with precision**
 - problems may persist with differencing
- **Some O-D data must be considered as just not fit for purpose**

Advice: to ONS

- **Listen to Users**
- **Reconsider who is being protected - from who/what**
- **Make SDC intelligible**
- **.... and invisible**
- **.... and keep SDC inside the database**

- **Consistency of approach across the UK**
- **If in doubt – do as the Scots do.**