



## **CENSUS ADVISORY GROUP**

**AG (14) 02 – 2011 Census output update**

**(Remaining Outputs from the 2011 Census)**

### **1. Introduction**

This paper provides a summary of the outputs that have been produced so far for the 2011 Census, and describes the remaining outputs that will be produced in 2014/15. A provisional timetable for the release of the remaining products is also provided.

Advisory group members are asked to:

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- Note and comment on the planned products and timetable for the remaining outputs;
- Comment on the requirements for statistics for small population groups;
- Note the de-scoped outputs.

## 2. Outputs produced so far

To date there have been 42 releases of 2011 Census data for England and Wales, as summarised in table 1 below.

**Table 1. 2011 Census releases for England and Wales up to June 2014**

Type of release	Date of release	Number of releases
Population and household estimates	July to November 2012	3 releases
Second address estimates	October 2012	1 release
Key and Quick Statistics	December 2012 to June 2013	9 releases
Short-term resident population	March 2013 to October 2013	2 releases
Detailed Characteristics	May 2013 to May 2014	11 releases
Local Characteristics	July 2013 to May 2014	10 releases
Headcounts and household estimates for postcodes	June 2013	1 release
Workday population	October 2013 to May 2014	2 releases
Workplace population	May 2014	1 release
Migration statistics for Wales	May 2014	1 release
Armed Forces	May 2014	1 release

In addition there have been eight releases of 2011 Census data for the UK, as summarised in table 2.

**Table 2. 2011 Census releases for the UK up to June 2014**

Type of release	Date of release	Number of releases
Population and household estimates	December 2012 to July 2013	3 releases
Key and Quick Statistics at Local Authority level	October 2013 to January 2014	3 releases
European Commission Census Regulation Statistics	March 2014	1 release
Key and Quick Statistics at Output Area level	June 2014	1 release

### **3. Remaining outputs**

The majority of the remaining outputs are the more complex outputs, those for specific populations and the specialist products. A summary of the different products and the timetable for their release is provided in Annex A. Further information about each of the products is given below.

#### **3.1 Origin-Destination**

The Origin-Destination data will include the travel to work and migration patterns of individuals, cross-tabulated by other variables. New products for the 2011 Census will also provide the migration patterns of those living at a student address one year ago, and provide information on individuals with second residences.

A large amount of the origin-destination data will be at UK level, providing flows for usual residents of England, Wales, Scotland, and Northern Ireland. Any statistics that cannot easily be harmonised across the UK due to differences in the data collected will be provided for usual residents of England and Wales only. These statistics will still provide geographical detail of any flows between the other countries of the UK.

The travel to work data for England and Wales will use the new workplace zone geography to show flows between output areas of usual residence to workplace zones.

The Origin-Destination data will be released using three different channels:

1. Public
2. Safeguarded
3. Secure

The first batch of Origin-Destination tables are those most requested by users and are planned for release in July 2014. This release comprises 20 tables that are each produced at one or more levels of geography; providing 34 tables in total. These tables will be a mixture of public, safeguarded and secure tables.

Statistical disclosure control checks are under way and it is expected that 16 of the 34 tables will be available publically via Nomis, the remainder of these available as either safeguarded or secure data under certain access conditions. ONS are working with both Nomis and the UK Data Service to enhance existing systems in order to provide controlled access to the safeguarded data, and reviewing existing terms and conditions for this type of data. As ONS are currently working on a project to replace the VML in late 2014, options are being investigated into how the priority secure origin-destination data can be made available in July 2014 in a secure ONS environment.

The current proposed timetable for the release of the remaining Origin-Destination products is for the secure files to be made available in November 2014, and the safeguarded files to be made available in December 2014. It is expected that all of the tables that can be made available publically will have been included in the July release; however, until statistical disclosure control checks have been carried out on all of the tables, the release channel for each cannot be confirmed.

Table layouts for all of the Origin-Destination tables, and the likely release channel for each table, are available on the ONS website at:

<http://www.ons.gov.uk/ons/guide-method/census/2011/census-data/2011-census-prospectus/release-plans-for-2011-census-statistics/subsequent-releases-of-specialist-products/flow-data/index.html>

### **3.2 Supplementary Detailed and Local Characteristics**

This release will consist of a batch of additional Detailed and Local Characteristics tables. These tables were specified either because new requirements emerged since the main detailed and local characteristics releases were published, or to fill gaps in the outputs due to the absence of theme tables (see section 4 for more information on theme tables). These tables will cover topics such as health, dependent children, and travel to work.

It is planned to release these tables in August 2014. Layouts for the tables will be published on the ONS website when they have been finalised following Statistical Disclosure Control review.

### **3.3 UK Migration**

This is a UK release which will contain tables on migration within the UK, cross-tabulated by one or more other topics from the census, such as age, economic activity, and ethnic group. The tables will show both inflows and outflows to an area, and provide overall net migration.

There are currently 15 tables in this release, however, the draft layouts for these tables are being assessed by Statistical Disclosure Control and it is possible that some may be found to be too disclosive and therefore dropped from the release.

It is hoped to produce the tables down to MSOA and Census Merged Ward level, and possibly down to Output Area level with less detail, however, until the tables have been assessed for disclosure it is not possible to confirm the geographies that will be used.

These tables are planned for release in August 2014. Layouts for the tables will be published on the ONS website when they have been finalised following Statistical Disclosure Control review.

### **3.4 Microdata**

The microdata teaching file was published in January 2014, and there are three remaining microdata products planned for release later in 2014:

- Secure household file
- Secure individual file
- Safeguarded individual file

The secure files will generally be similar to the 2001 Controlled Access Microdata Sample (CAMS), both household and individual, and will contain a maximum sample size of 10 per cent.

In the long term, the secure files will be held in ONS's Virtual Microdata Laboratory (VML). However, as ONS are currently working on a project to replace the VML, options for how the secure microdata files can be made available before the new VML is launched are being investigated. Both the household and individual secure files are planned for release in August 2014, however, this date is not yet confirmed and is dependent on the availability of a secure environment in which to store the files.

The planned safeguarded file will be at the individual person level, and will contain a similar level of detail to the 2001 small area microdata, and the individual level SAR, with a maximum sample size of 5 per cent.

It is intended that the safeguarded file will be made available to users via UKDS to store on their desktops under strict terms and conditions. More information about these terms and conditions and how to obtain access to the file will be made available on the ONS website shortly when arrangements have been finalised. This file is provisionally planned for release in September 2014.

In addition, a business case has been put forward by members of the Census Origin-Destination and Microdata Working Group for a safeguarded household file. The business case presented to ONS puts forward a good justification for the requirement of a safeguarded household file, and ONS is assessing the feasibility of producing such a file. The challenge is producing a file that satisfies our confidentiality protection tests and provides sufficient utility to users. Further information on the results of this work will be made available later in 2014/15.

### **3.5 Out of term population**

This release contains new statistics about the characteristics of the out of term population of England and Wales, the last of the alternative populations to be released for the 2011 Census. The tables for the out of term population will count people in the following way:

- If the person is not a student, they are counted at their enumeration address
- If the person is a student but does not have a second address, they are counted at their enumeration address
- If the person is a student and has a second address, they are allocated based on the following:
  - If their second address is in England and Wales but the reason for this second address is not a 'student home address', the person is counted at their enumeration address
  - If their second address is in England and Wales and the reason for this second address is a 'student home address', the person is counted at their second address
  - If their second address is outside of England and Wales, the person is not included in the population

When designing these tables, an important aim has been to maximise comparability with previously published tables on the usual residence base and to maximise comparability across each alternative base. Therefore, with the exception of the age and sex tables, all of the out of term population tables are univariate tables that have already been published as Quick Statistics for usual residents.

There are currently 21 tables in the release covering topics such as age, ethnic group, and highest level of qualification. These tables have all passed Statistical Disclosure Control and are currently being reviewed by ONS topic experts which may initiate some change before being finalised.

All but one of the tables will be available down to Output Area level. The remaining table (sex by single year of age) will be available down to Middle Layer Super Output Area level.

These tables are planned for release in September 2014, and a short story will accompany the release. Layouts for the tables will be published on the ONS website when they have been finalised.

### **3.6 United Nations Yearbook**

The United Nations (UN) Yearbook collects, compiles and disseminates official statistics on a wide range of topics. Data have been collected from over 230 national statistics offices since 1948. The Yearbook covers a wide range of topics including economic activity, qualifications, ethnicity, language, and housing.

Data for the UN Yearbook is required from the 2011 Census at the UK level (with an urban/rural split), therefore ONS will be working jointly with NRS and NISRA to compile the data. Approximately 140 tables will be produced and submitted to the UN in six different batches:

1. Population: General Characteristics
2. Population: Economic Characteristics
3. Population: Economic Characteristics Annex Tables
4. Housing: National Data
5. Housing: City Data
6. Population: Household Characteristics

As well as submitting the required data to the UN, it is also planned to publish these tables on the ONS website to make them available to users. It is provisionally planned to complete and publish these by the end of 2014.

### **3.7 Small populations**

This release will consist of a number of outputs for specific small population groups, for those geographical areas where there are enough people in that population to ensure that disclosure can be protected. The aim of these outputs is to provide information on the location and size of minority groups that can be lost in the standard outputs. These outputs will help to maximise the utility of census data for the widest number of users, and support the equality agenda and diversity awareness.

Thresholds for these outputs have been considered. It is likely that tables for a small population will only be produced if there are 50 or more qualifying people in the given Middle Layer Super Output Area geography, with separate sets of outputs developed for areas where there are 100 or more, and 200 or more, people from the same small population group in an area.

It is proposed that the small population groups will be identified from our previous engagement with users and is likely to focus on particular groups from the country of birth, ethnic group, religion, and language questions. Tables produced for the small populations are likely to cover topics such as age, sex, qualifications, English proficiency, and health.

It is planned to start releasing these tables in September 2014. However, given that these outputs are in the early stages of planning, feedback from advisory group members on possible populations to cover in these outputs would be welcomed.

#### **4. De-scoped outputs**

Theme tables were produced in 2001 and designed to provide lots of different information about a particular theme. For example, the ethnicity theme contained 11 tables on ethnic group by age, economic activity, health, etc. The tables went down to ward level, and worked well in a paper based output system as users could easily retrieve lots of information about a particular ethnic group, for example, from one place.

For 2011, a number of themes were specified following the user consultation, and users were informed that the theme tables would be produced down to LA level only. However, when planning the remaining census outputs, these tables were later de-scoped for the following reasons:

- The vast majority of the information is already provided in the Detailed Characteristics or Local Characteristics products.
- There were early concerns about Statistical Disclosure Control as the information was so detailed and presented in such a way that it made it harder to protect and significantly increased the resource to assess each of the themes.
- Theme tables were not designed for web dissemination, therefore additional work would need to be carried out to merge all of the different tables together to present as one theme on the web.

Although users had expressed some interest in the theme tables, users indicated that other outputs were of more importance, and given the issues with their production mentioned above, the tables were de-scoped as the lowest priority outputs.

The majority of the information included in the theme tables in 2001 is available in the existing Detailed and Local Characteristics tables. Some gaps left by the withdrawal of the theme tables have been identified, and a supplementary release of



Detailed and Local Characteristics tables, which will include tables to fill some of those gaps, is planned for release in late summer 2014.

## 5. Conclusion

A significant amount of data from the 2011 Census, for both England and Wales and for the UK, has been released to date. The majority of the remaining outputs that are planned for production and release in 2014 are the non-standard outputs, those for specific populations and the specialist products. A number of these outputs will be at the UK level, with ONS working in collaboration with both NISRA and NRS for their production. The outputs will be released between July and December 2014.

### **Annex A – Timetable for release of remaining 2011 Census Outputs**

The timetable for the release of the remaining outputs from the 2011 Census is shown in the table below. It should be noted that this is the current timetable, which is provisional and subject to change. However, it reflects the detailed planning of the remaining outputs that ONS have recently undertaken and gives the best estimate of release dates for the remaining products. Any changes to this timetable, or confirmation of specific release dates, will be communicated to users via the 2011 Census Prospectus on the ONS website.

**Table 3. Timetable for release of remaining 2011 Census Outputs**

<b>Output</b>	<b>Release Date</b>
Origin-Destination Priority	July 2014
Supplementary Detailed and Local Characteristics	August 2014
UK Migration	August 2014
Microdata Household Secure File	August 2014
Microdata Individual Secure File	August 2014
Microdata Individual Safeguarded File	September 2014
Out of Term Population	September 2014
United Nations Yearbook	September 2014
Small Populations	September 2014
Remaining Origin-Destination Secure	November 2014
Remaining Origin-Destination Safeguarded	December 2014