

Data Management and Analysis Group

Census Information Note

CIN 2006-2



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The Samples of Anonymised Records (SARs)

2001 SARs

The Sample of Anonymised Records are a series of datasets based on the 2001 Census. This Census Information Note provides more detail about the datasets the GLA has and those available from ONS through the University of Manchester.

Individual SAR (Licensed)

The Individual SAR (Licensed) is a three per cent sample (1.84 million records) from the 2001 Census. For London there are 224,000 records. The datasets have been completely anonymised so that no individuals can be identified.

The geography is Government Office Region (GOR in England), London is split into Inner and Outer London. The data is also available for England and Wales, Scotland and Northern Ireland.

There are two versions of the file, with or without an imputation flag. The imputation flags lets the user know which record variables have been either generated by the One Number Census (ONC) or by cell perturbation¹.

The Individual SAR file without imputation flags contains 87 variables, 85 census variables and two record counters.

The data file with imputation flags contains 172 variables. These include an additional 85 variables, one for each census variable indicating whether the variable has been imputed.

The Cathie Marsh Centre for Census and Survey Research (CCSR) based at the University of Manchester, support UK academic use of the SARs datasets, suggest using the file without the imputation flags.

The census variables can be broken down under a variety of headings:

- Individual related
There are 38 individual related variables, of these 23 relate to England and Wales. Of the remaining 15 variables, seven relate to Scotland, seven to Northern Ireland and one to both.
- Household or family related variables.
There are 28 household or family related variables, 26 are for England and Wales. One variable relates to Scotland and one to Northern Ireland.
- Employment related
There are 14 employment related variables.
- Family types
There are five family type variables.

Organisations using this data are restricted to a 10 user licence. Each user must sign a licence agreement. Data is only be accessed, in an institutional setting, via a stand-alone PC or a closely controlled LAN with restricted access - data must not be accessed at a private residence.

Any member of the Census Consortium wishing to know more or would like to have access to the Individual SARs should contact the Census Team. This dataset contains no borough level data. A full list of variables is included in Appendix 1.

¹ Cell Perturbation – is the modifying of cell counts by up to +2 and -2 in published tables to ensure statistical data does not reveal any information about identifiable individuals or households.

Small Area Microdata (Licensed)

The Small Area Microdata file (SAM) is a five per cent sample of individuals, almost three million records in the UK. The lowest level of geography for England and Wales is Local Authority, Council Areas in Scotland and Parliamentary Constituencies in Northern Ireland.

This dataset excludes people in communal establishments.

This dataset has fewer variables than the individual SAR, 65 variables in all, of which 51 are common to both. The remaining variables include detail on deprivation indicators, households, family reference persons and household reference persons.

The census variables can be broken down as:

- Individual related
There are 26 individual related variables, of these 20 relate to England and Wales. Three variables are for Scotland and three for Northern Ireland.

The ethnic group categories have been reduced from 16 categories to 13. The following groups have been merged:
Mixed White and African, Mixed White and Black Caribbean and Other Black.
Mixed White and Asian and Other Asian.

- Household or family related
There are 16 household or family related variables, 14 for England and Wales. The others are one variable for Scotland and one for Northern Ireland.
- Employment related
There are nine employment related variables.
- Family types
There are five family type variables.
- Other
There are another 12 variables, including four derived variables, relating to deprivation. Of the remaining variables three relate to family reference persons (FRPs), three relate to health, one is a variable indicating social grade of HRP and one is a local authority indicator.

This dataset has the same restrictions as the Individual SAR. Organisations using this data are restricted to a 10 user licence. Each user must sign a licence agreement. Data is only be accessed, in an institutional setting, via a stand-alone PC or a closely controlled LAN with restricted access - data must not be accessed at a private residence.

Any member of the Census Consortium wishing to know more or would like to have access to SAM should contact the Census Team. A full list of all the variables is included in Appendix 2.

Household SAR (Special Licence)

The Household SAR is a one per cent sample of households for England and Wales only. The file allows linking between individuals in the same family and in the same household.

This file brings together many of the variables referred to in the paragraph on the Individual SAR, adding additional detail of those living in the same household. This file allows social researchers to investigate the relationships within households, looking at their household composition, employment, health, education, religion, ethnicity patterns etc.

The application procedure for this dataset is more complex than for the Individual SAR and Small Area Microdata.

The GLA Census Team think this file will add little value from a London perspective as many of the London specific patterns would be significantly different to the England and Wales picture. Where a specific project may require data for London it may be possible to commission specific tables. Any member of the Census Consortium wishing to know more about the household SAR or would like to discuss the commissioning of tables should contact the Census Team.

A list of variables is included in Appendix 3.

Individual CAMS (Safe setting)

The Individual Controlled Access Microdata Sample (Individual CAMS) provides a more detailed version of the Individual Licensed SAR. This file contains the same records as the Individual SAR, with an additional 90 variables.

More detail is available in a variety of areas including:

- geography at Local Authority (LA) level rather than at GOR
- full occupational detail (unit SOC)
- more detailed industry
- full coding on country of birth and
- the 2004 Index of Deprivation scores have been added to Super Output Areas for England and Wales (and deciles for Scotland).

This file is currently available for use at a number of ONS offices including, London, Newport, Southport and Titchfield. The file is managed by ONS, access is for specific projects an application form will need to be completed and submitted to Census Research Access Board (CRAB).

For a list of variables available and more detail about the application process visit the ONS website, www.statistics.gov.uk/census2001/sar_cams.asp

Household CAMS (Safe setting)

The Household Controlled Access Microdata Sample (Household CAMS) provides a more detailed version of the household SAR and includes data for Scotland and Northern Ireland. The file can be accessed in a safe setting at ONS and the application procedure is the same as for the Individual CAMS. A codebook is available.

Appendix 1 – Individual SAR variable list

Variables about the Individual

age0	Age of Respondents-Grouped
cestatus	Status in Communal Establishment
cetype	Type of Communal Establishment
cobirt0	Country of Birth
combgn	Community background-religion or religion brought up in NI
country	Country of Usual Residence
distmov0	Distance of Move for Migrants-Banded
distwrk0	Distance to Work (including study in Scotland)
ethew	Ethnic Group for England and Wales
ethn	Ethnic Group for Northern Ireland
eths	Ethnic Group for Scotland
gaelread	Whether Reads Gaelic (Scotland)
gaelspk	Whether Speaks Gaelic (Scotland)
gaelstnd	Whether Understands Gaelic (Scotland)
gaelwrit	Whether Writes Gaelic (Scotland)
genind	Generation Indicator
health	General Health over last twelve months
irislang	Whether Reads/Speaks/Understands/Writes Irish
liti	Limiting Long Term Illness
marstat	Marital Status
migind	Migration Indicator
migorgn	Migrants: Area of Former Residence
profqual	Professional Qualification (England and Wales)
provcare	Number of Hours Care Provided per Week
qualvewn	Level of Highest Qualifications (Aged 16-74), England, Wales & Northern Ireland
qualvs	Level of Highest Qualifications (Aged 16-74), Scotland Only)
relgew	Religion (England and Wales)
relgs1	Religion belongs to (Scotland)
relin	Religion (Northern Ireland)
reltohr	Relationship to HRP
sex	Sex
student	Schoolchild or Student in Full-Time Education
stulawy	Students residential status
termtime	Term Time address of Students or Schoolchildren
wlshread	Whether Reads Welsh-England and Wales
wlshspk	Whether Speaks Welsh-England and Wales
wlshstnd	Whether Understands Welsh-England and Wales
wlshwrit	Whether Writes Welsh-England and Wales

Employment

econact	Economic activity (last week)
everwork	Ever worked
hourspw	Hours Worked Weekly
hourspwg	Hours worked Weekly-Grouped
industry0	Industry
isco	International Standard Classification of Occupations
lastwork	Year last worked
nssec	NS-SEC Socio-Economic Classifications
socmin	Standard Occupational Classification 2000-minor

socsubmj	SOC (SubMajor)
supervsr	Supervisor/Foreman
tranwrk0	Transport to Work, UK (Including to Study in Scotland)
workforc	Size of Workforce
wrkplce0	Workplace England, Wales & Scotland

Family

famtyp	Family Type
fndepch	Dependent Children in Family
freconac	Economic Position of Family Reference Person (FRP)
fnssec	NS-SEC Socio-economic Classification of Family reference person
frsex	Sex of Family Reference Person

Household variables concerning the household or family of which the individual is a member.

acctype	Accommodation Type
bathwc	Use of Bath/Shower/Toilet
cars0	Cars/Vans Owned or Available for Use
cenheat0	Central Heating
density	Household Density: Number of Residents per Room
furn	Accommodation Furnished (Scotland)
hedind	Household education indicator
hempind	Household employment indicator,
hhlthind	Household health and disability indicator
hhsgind	Household housing indicator
hncarers	Number of Carers in the Household
hnearns	Number of Employed Adults in Household
hnders	Number of Persons in Household aged 65 or over
hnfams	Number of Families in Households
hnliti	Number in Household with Limiting Long-term Illness
hnprhlth	Number of Household Members with Poor Health
hnresdnt	Number of Usual Residents in Household
hrsocgrd	Social Grade of Household Reference Person
lowflor0	Lowest Floor Level of Household Living Accommodation
multeth	Multiple Ethnicity Household Indicator
occupncy	Occupancy Rating of Household
region	Region of Usual Residence
roomsflr	Number of Floor Levels (Northern Ireland)
roomsnum	Number of Rooms in Occupied Household Space
selfcont	Accommodation Self-Contained
stahuk	Household with Students Away During Term Time
tenurew	Tenure of Accommodation, (England and Wales only)
tenursn	Tenure of Accommodation, (Scotland and Northern Ireland only)

Derived variables

dcobuk	Country of Birth (UK/Non-UK grouping)
nssec8	NS-SEC 8 analytical classes
sclass	Registrar General's Social Class
seg	Socio-Economic Groups
socmaj	Standard Occupational Classification 2000 major groups

Appendix 2 – Small Area Microdata (SAM) variable list

Individual

age	Age of Respondents
cobirth	Country of Birth
combni	Community Background – Religion or Religion Brought Up In (Northern Ireland)
distmove	Distance of Move for Migrants (km)
distwork	Distance to Work (Including Study in Scotland)
ethew	Ethnic Group for England and Wales
ethni	Ethnic Group for Northern Ireland
eths	Ethnic Group for Scotland (coding not yet agreed)
genind	Generation Indicator
health	General Health Over the Last Twelve Months
ltill	Limiting Long Term Illness
migind	Migration Indicator
migorgn	Migrants Area of Former Residence GOR of Origin
mstatus	Marital Status
profqual	Professional Qualification (England and Wales)
provcare	Number of Hours Care Provided per Week
qualevel	Level of Highest Qualifications (Aged 16-74)
qualevels	Level of Highest Qualifications (Aged 16-74), Scotland Only)
relat	Relationship to HRP
relew	Religion (England and Wales)
relgni1	Religion (Northern Ireland)
relgs1	Religion belongs to (Scotland)
sex	sex
stahuk	Household with Students Away During Term Time
student	Schoolchild or Student in Full-Time Education
termtime	Term time Address of Students or Schoolchildren

Employment

econprim	Economic Activity (last week)
everwork	Ever Worked
hours	Hours Worked Weekly
lastwork	Year Last Worked
NS-SeC	NS-SEC 8 categories
supervsr	Supervisor/Foreman
tranwork	Transport to Work, UK (Including to Study in Scotland)
workforc	Size of Work Force
workplce	Workplace

Family

famdepch	Dependent Children in Family
famtype	Family Type

Household

acctype	Accommodation Type
bath	Use of Bath/Shower/Toilet
cars	Cars/Vans Owned or Available for Use
cenheat	Central Heating
density	Persons per Room
earners	Number of Employed Adults in Household
furnish	Accommodation Furnished (Scotland)
lowfloor	Lowest Floor Level of Household Living Accommodation
occupancy	Occupancy Rating of Household
region	Region of Usual Residence
roomsflr	Number of Floor Levels (Northern Ireland)
roomsnum	Number of Rooms Occupied in Household Space
selfcont	Accommodation Self-Contained
tenure	Tenure of Accommodation, England and Wales,
tenure	Tenure of Accommodation, NI, Scotland

Other

depemhuk	Employment Deprivation
dependhuk	Education Deprivation
dephdhuk	Health and Disability Deprivation
dephshuk	Housing Deprivation
ecposfhp	Economic Position of Family Reference Person
ltillhh	Number in Household with Limiting Long-term Illness
ncarers	Number of Carers in the Household
numhlthg	Number of Household Members with Poor Health
residents	Number of Usual Residents in Household
sclassfh	NS-SEC Social-Economic Classifications of Family Reference Person
sexfamhd	Sex of Family Reference Person
socgradehh	Social Grade of Household Reference Person

Appendix 3 – Household SAR variable list

Variables about the Individual

age0	Age of Respondents-Grouped
cobirt0	Country of Birth
distmov0	Distance of Move for Migrants-Banded
distwrk0	Distance to Work (including study in Scotland)
ethew	Ethnic Group for England and Wales
genind	Generation Indicator
health	General Health over last twelve months
liti	Limiting Long Term Illness
marstat	Marital Status
migind	Persons Migration Indicator
proqual	Professional Qualification (England and Wales)
provcare	Number of Hours Care Provided per Week
qualvewn	Level of Highest Qualifications (Aged 16-74), England, Wales & Northern Ireland
relgew	Religion (England and Wales)
reltohr	Relationship to HRP
sex	Sex
student	Schoolchild or Student in Full-Time Education
termtime	Term Time address of Students or Schoolchildren

Employment

econact	Economic activity (last week)
everwork	Ever worked
hourspw	Hours Worked Weekly
industry0	Industry
isco3	International Standard Classification of Occupations 3 (3 digit)
lastwork	Year last worked
nssec	NS-SEC Socio-Economic Classifications
socmin	Standard Occupational Classification 2000-minor
supervsr	Supervisor/Foreman
tranwrk0	Transport to Work, UK (Including to Study in Scotland)
workforc	Size of Workforce
wrkplce0	Workplace England, Wales & Scotland

Family

famnum	Family Indicator
famtyp	Family Type
frp	Family reference person
frsex	Sex of Family Reference Person

Household variables concerning the household or family of which the individual is a member.

acctype	Accommodation Type
bathwc	Use of Bath/Shower/Toilet
carsh	Cars/Vans Owned or Available for Use
cenheat0	Central Heating
density	Household Density: Number of Residents per Room
hedind	Household education indicator
hempind	Household employment indicator,
hhid	Household Identifier
hhlthind	Household health and disability indicator
hhsgind	Household housing indicator
hmigind	Household migration Indicator
hnresidn	Number of Persons in Household
hrp	Household Reference Person
hrsocgrd	Social Grade of Household Reference Person
lowflor0	Lowest Floor Level of Household Living Accommodation
roomreq	Rooms Required
roomsnmh	Number of Rooms in Occupied Household Space
selfcont	Accommodation Self-Contained
stahukh	Household with Students Away During Term Time
stapuk	Student Accommodation
tenureh	Tenure of Accommodation, (England and Wales only)

Other

edisdono	No. of donations to edit imputation system
hedisdon	No. of hhd donations to edit imputation system
id	Unique Individual Identifier
oncperim	This maybe the same as oncperimp for the individual SAR
pnum	Person Number (shown for households up to and including 11 persons)
popbase	Population base limiter

Regular Briefings from the GLA Data Management and Analysis Group

Recent *DMAG Briefings*:

DMAG 2005/12	Ethnic Diversity Indices	Baljit Bains
DMAG 2005/13	London Borough and Sub-Regional Demographic Profiles (2003)	Georgia Hay
DMAG 2005/14	Guide to accessing the LHS at the ESRC Data Archive	Lovedeep Vaid
DMAG 2005/15	GLA Ward Population Projection Manual	Georgia Hay
DMAG 2005/16	Income Poverty in London: 2003/04	Lovedeep Vaid
DMAG 2005/17	Focus on London's Demography	John Hollis
DMAG 2005/18	Census Information Note 2005-1	Eileen Howes
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DMAG 2005/44	2001 Census: London County Report	Gareth Piggott
DMAG 2005/45	Greater London Demographic Review 2004	Demography Team
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DMAG 2006/8	Demography Team Workplan 2006-07	John Hollis
DMAG 2006/9	Benefits Data for London: No. 4: Housing and Council Tax Benefits	Lovedeep Vaid
DMAG 2006/10	Household Representative Rates: Technical Report	Georgia Hay
DMAG 2006/11	Borough and Sub-regional Demographic Profiles, 2006	Georgia Hay
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DMAG 2006/15	Census Information Note 2006-2	Giorgio Finella

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Please use the above descriptions in deciding whom to contact to assist you with your information needs.