

Census of Population 2002
Place of Work
Sample of Anonymised Records (POWSAR)
User Guide

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1 Introduction

A Census of Population was taken on the night of Sunday, 28 April 2002¹, in accordance with the Statistics (Census of Population) Order 2001 (S.I. No. 491 of 2001)². A copy of the census questionnaire, including the explanatory notes which accompanied it, is reproduced in Appendix 1.

1.1 Coverage of the Census

The census figures relate to the *de facto* population, i.e. the population recorded for each area represents the total of all persons present within its boundaries on the night of Sunday, 28 April 2002, together with all persons who arrived in that area on the morning of Monday, 29 April 2002, not having been enumerated elsewhere. Persons on board ships in port are included with the population of adjacent areas. The figures, therefore, include visitors present on census night as well as those in residence, while usual residents temporarily absent from the area are excluded from the census count.

A limited number of questions, relating mainly to demographic characteristics, were asked in respect of usual residents who were temporarily absent from their households on census night. The responses to these questions enables a more precise picture to be built up on families and households by excluding visitors present on census night and including residents who were temporarily absent.

1.2 Conduct of the Census

A temporary field force consisting of 5 Census Liaison Officers, 35 Regional Supervisors, 350 Field Supervisors and some 4,000 part-time enumerators carried out the census enumeration. Blank census questionnaires were distributed to every household and communal establishment in the State during the four weeks immediately preceding census night. Collection of completed questionnaires commenced on Monday, 29 April. The enumerators examined the questionnaires at the time of collection to ensure that they were correctly completed and, where necessary, they assisted householders in their completion.

1.3 Production of Results

Each enumerator first prepared and returned to the Central Statistics Office (CSO) a summary of the population in his/her enumeration area. These summaries formed the basis for the preliminary 2002 population results³. The completed questionnaires for the individual households were subsequently transmitted to the CSO for processing.

The population summaries, dwelling listings and enumeration maps for individual enumeration areas were checked for consistency and used to determine the boundaries of census towns and suburbs/environs of towns with legal boundaries. The capture and processing of the responses to questions on the census questionnaire proceeded concurrently.

1.4 Publication of Results

The publication schedule consisted of the Principal Demographic Results and Principal Socio-economic Results, which provide the main census results, primarily at national level. More detailed data is provided in 13 subject matter reports. All of the tables published in these reports are available on the Central Statistics Office web site (www.cso.ie) using Beyond 20/20 interactive software. This software gives Internet users the ability to select and view data online and then download the same data to their computers.

¹ The census originally planned for 29 April 2001 was postponed because of the Foot and Mouth disease situation pertaining at the time.

² The Statistics (Census of Population) Order, 2001 was made by the Minister of State at the Department of the Taoiseach in pursuance of powers conferred on him by section 25 (1) of the Statistics Act, 1993 (No. 21 of 1993) and the Statistics (Delegation of Ministerial Functions) Order, 1997 (S.I. No. 327 of 1997).

³ Census of Population of Ireland, 2002: Preliminary Report (Pn. 11897), July 2002.

1.5 Further Information

For further information contact:

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2 Place of Work Sample structure and content

The Place of Work Sample includes ONLY persons who at the time of the census:

- were enumerated in a private household
- were 15 years old or over
- were enumerated at home (Question 7 = Here)
- indicated that their Present Principal Status was working for payment or profit (Question 24 = box 1).

Table 1 below gives details of the variables in the sample and how they are classified. For further details on definitions of the variables, please refer to the published reports from Census 2002 (these are available on the census pages of the Central Statistics Office web site (www.cso.ie/census.html)).

The Place of Work Sample data file IECOPPlaceOfWork2002.txt is a tab delimited text file in the format outlined in Table 1. Note that the first record of this file contains the column headings.

Table 1 Variables in the Anonymised Place of Work Microdata File and the classifications used

Variable	Type	Length	Label/Notes	Values
PlanningReg	Char	1	Regional Authority of Enumeration/Residence Note: That the sample only covers persons enumerated at their usual residence.	'1' = 'Border' '2' = 'Dublin' '3' = 'Mid-East' '4' = 'Midland' '5' = 'Mid-West' '6' = 'South-East' '7' = 'South-West' '8' = 'West'
County	Char	2	County of enumeration and residence.	01=Carlow 02=Dublin City 03=South Dublin 04=Fingal 05=Dún Laoghaire-Rathdown 06=Kildare 07=Kilkenny 08=Laoighis 09=Longford 10=Louth 11=Meath 12=Offaly 13=Westmeath 14=Wexford 15=Wicklow 16=Clare 17=Cork City 18=Cork County 19=Kerry 20=Limerick City 21=Limerick County 22=Tipperary North 23=Tipperary South 24=Waterford City 25=Waterford County 26=Galway City 27=Galway County 28=Leitrim 29=Mayo 30=Roscommon 31=Sligo 32=Cavan 33=Donegal 34=Monaghan
ED	Char	5	Electoral Division where resident and enumerated	See csoedcodes.xls

Variable	Type	Length	Label/Notes	Values
Town	Char	4	Town where resident and enumerated This code will be blank if the person was not resident and enumerated in a town with a population of 1500 or more.	See "CsoTownsOver1500.txt" tab delimited text file.
ResidentPersons	Char	2	Number of usual residents in the household	Where there are 8 or more usual residents in the households = '8+'.
HouseholdComposition	Char	1	Household composition	'1' = 'Single person' '2' = 'Lone parent with children' '3' = 'Couples with/without children but no others' '4' = 'Couples with/without children with others' '5' = 'Other households'
YearBuilt	Char	1	Year that the household accommodation was built	'1' = 'Before 1919' '2' = '1919 – 1940' '3' = '1941 – 1960' '4' = '1961 – 1970' '5' = '1971 – 1980' '6' = '1981 – 1990' '7' = '1991 – 1995' '8' = '1996 or later' ** = Not stated
NatureOccupancy	Char	1	Nature of occupancy of household accommodation	'1'='Owner occupied where loan or mortgage repayments are being made' '2'='Owner occupied where no loan or mortgage repayments are being made' '3'='Being purchased from a Local Authority (Corporation, County or Urban District Council) under a Tenant Purchase Scheme' '4'='Rented from a Local Authority' '5'='Rented unfurnished other than from a Local Authority' '6'='Rented furnished or part furnished other than from a Local Authority' '7'='Occupied free of rent (caretaker, company official, etc.)' ** =Not stated
Cars_or_vans	Char	1	Number of cars or vans available for use in the household	'1' = 'One' '2' = 'Two' '3' = 'Three' '4' = 'Four' '5' = 'Five or more' '6' = 'None' ** = Not stated
Sex	Char	1	Sex	'1' = 'Males' '2' = 'Females'

Variable	Type	Length	Label/Notes	Values
Age5gpr	Char	5	Five-year age group	'15-19' = '15-19' '20-24' = '20-24' '25-29' = '25-29' '30-34' = '30-34' '35-39' = '35-39' '40-44' = '40-44' '45-49' = '45-49' '50-54' = '50-54' '55-59' = '55-59' '60-64' = '60-64' '65-69' = '65-69' '70-74' = '70-74' '75+' = '75+'
MarStat	Char	1	<p>Current marital status</p> <p>Married comprises of the following categories:</p> <ul style="list-style-type: none"> Married (first marriage) Re-married (following widowhood) Re-married (following divorce/annulment). <p>Separated comprises of the following categories:</p> <ul style="list-style-type: none"> Separated (including deserted) Divorced. 	'1' = 'Never married' '2' = 'Married' '3' = 'Separated (including divorced)' '4' = 'Widowed'
ResOneYearFlag	Char	1	Flag indicating where the person usually resided one year ago	'0' = 'Same address' '1' = 'Different address' '*' = 'Not stated'
Travel	Char	2	Mode of travel to work, school or college	'01' = 'On foot' '02' = 'Bicycle' '03' = 'Bus or Coach' '04' = 'Train' '05' = 'Motor cycle' '06' = 'Motor car (driver)' '07' = 'Motor car (passenger)' '08' = 'Lorry, van' '09' = 'Other means' '10' = 'Work mainly at home' '11' = 'Not applicable' '*' = 'Not stated'
Dep_time	Char	1	Leaves home for work, school or college	'1' = '1 Before 07:00' '2' = '2 07:00-07:30' '3' = '3 07:31-08:00' '4' = '4 08:01-08:30' '5' = '5 08:31-09:00' '6' = '6 09:01-09:30' '7' = '7 After 09:30' '8' = '8 Not applicable' '*' = Not stated

Variable	Type	Length	Label/Notes	Values
Jrn_miles	Num	3	Journey to work – miles	Numeric value = actual miles '0' = 'Less than 1 mile' ** = Not stated
Jrn_mins	Num	3	Journey to work – minutes	Numeric value = actual minutes ** = 'Not stated'
POWEd	Char	5	Electoral Division of address of place of work	See "csoedcodes.xls". 'B' = Place of work address blank or uncodeable 'M' = No fixed place of work(Q30) 'W' = Works mainly at or from home(Q30)
POWTownCty	Char	4	Town/county of address of place of work	See "CsoTownsOver1500.txt" tab delimited text file. 4 Digit Numeric=Town code of address of place of work 'B' = Place of work address blank or uncodeable 'M' = Mobile worker(Q30) 'W' = Works mainly at or from home(Q30)
Seg	Char	1	Socio-economic group	'A' = 'Employers and managers' 'B' = 'Higher professional' 'C' = 'Lower professional' 'D' = 'Non-manual' 'E' = 'Manual skilled' 'F' = 'Semi-skilled' 'G' = 'Unskilled' 'H' = 'Own account workers' 'I' = 'Farmers' 'J' = 'Agricultural workers' 'Z' = 'All others gainfully occupied and unknown' Socio-Economic Group (SEG) The socio-economic group of persons aged 15 years or over who are at work is determined by their occupation and employment status. Unemployed or retired persons aged 15 years or over are classified according to their former occupation and employment status. Persons on home duties or at school/college, who are members of a family unit, were classified to the socio-economic group of the person in the family on whom they were deemed to be dependent. Thus, if the head of a family was at work, unemployed or retired, dependent persons were assigned to his/her socio-economic group. If the head was neither at work, unemployed nor retired (e.g. never worked, permanently disabled, etc.) or if his/her occupation was not known, they were assigned to the socio-economic group of the principal earner in the family - if there was no such earner, they were assigned to the unknown socio-economic group. Other persons engaged in home duties or at school/college who were not members of a family unit, such as persons living alone or relatives of a head of household who were not members of the family unit (e.g. widowed grandparents, etc.), were assigned to the unknown group.

Variable	Type	Length	Label/Notes	Values
IndustrialGroup	Char	1	<p>Industrial group</p> <p>Industry is coded to over 200 detailed industry codes on the basis of the name and address of the business/employer and/or the free text description of the nature of business carried on.</p> <p>The details industry codes have been grouped into the eight broad groups for the purposes of this sample.</p>	<p>'1' = 'Agriculture, forestry and fishing'</p> <p>'2' = 'Manufacturing industries, mining, quarrying and turf production, electricity, gas and water supply'</p> <p>'3' = 'Construction'</p> <p>'4' = 'Commerce'</p> <p>'5' = 'Transport, storage and communications'</p> <p>'6' = 'Public administration and defence'</p> <p>'7' = 'Education, health and social work'</p> <p>'8' = 'Other'</p> <p>** = Not stated'</p>
ILOHours	Char	1	Hours worked last week	<p>Numeric value = actual hours worked</p> <p>'0' = 'Did not work any hours in the week before Census Day (on leave, etc.)'</p> <p>** = Not stated</p>
Wgtpersons	Num	9	Grossing factor i.e. the number of persons to be attributed to this record in the sample.	

2.1 Anonymisation and recoding

The records relating to persons within households were anonymised by stripping off all identifiable information such as household number, person number within household and by recoding variables where the number of categories could lead to the identification of an individual when combined with other information on the record.

2.2 Place of Work Sample selection

A 30 per cent random sample of person satisfying all the following criteria:

- enumerated in a Private Household
- 15 years old or over
- enumerated at home on Census night (Question 7 = Here)
- indicated that their Present Principal Status was working for payment or profit (Question 24 = box 1)

were selected from each Electoral District.

Each person randomly selected was randomly assigned a sub-sample number 1-6. Each sub-sample was sorted by county of enumeration and industry code and unrepaired automatically captured address text to assist in coding. CSO only had the resources to code sub samples 1-3 so that although the overall sample coverage is about 15 per cent some Electoral Divisions may have a final sampling fraction greater than 15 per cent and others less than 15 per cent depending on the random sub-sample allocation. A grossing factor (WgtPersons) is assigned to each record in the sample taking account of differential sampling fractions. WgtPersons is the grossed number of persons of making this type journey to work.

2.3 Place of Work coding

The location of the place of work was coded for each person in the sample on the basis of the reply to Question 29 and Question 30.

<p>29 What is (was) the full name of the Organisation you work(ed) for in your main job? <i>If you have your own business, write in the NAME of the business.</i></p> <input type="text"/> <input type="text"/>
<p>30 What is (was) the full address at which you actually work(ed)?</p> <input type="text"/> <input type="text"/> <input type="text"/>
<p><input type="checkbox"/> Work mainly at or from home <input type="checkbox"/> No fixed place of work</p>

Where the person ticked box 1 or 2 on Question 30 the place of work was automatically defaulted to W/M (W=Works mainly at or from home; M=No fixed place of work). Otherwise the employer name and address was matched against addresses on the Geodirectory. Where the coder could not find an exact match they coded to a near match if they could find an address on the same street or in the same town as the address stated on the form. The X,Y geo reference matched from the geo directory was linked back to the place of work Electoral District (ED) and Town by superimposing the digital boundaries of the ED/Towns.

Appendix 1

2002 Census questionnaire

The attached extract is taken from the household form used in the 2002 Census. The household form covers 6 persons and consists of 24 pages. The attached extract covers persons 1 and 2 only. The layouts for persons 3 to 6 are identical to that for person 2.