



An
Phríomh-Oifig
Staidrimh

Central
Statistics
Office

Teachers' Guide to the CSO 2022/2023







Teachers' Guide to the CSO 2022/2023

Published by the
Central Statistics Office, Ireland



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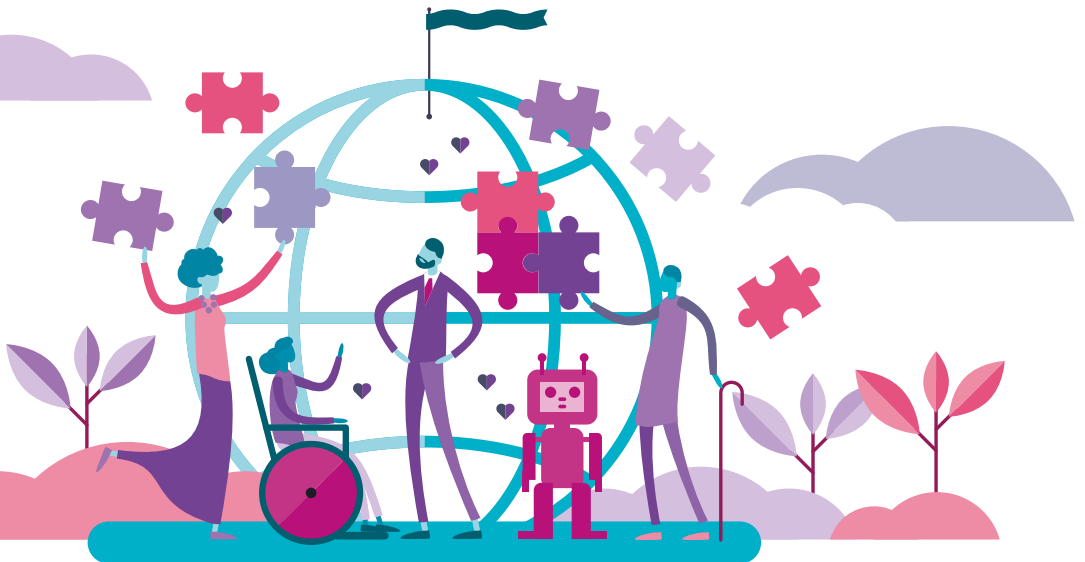
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Contents

CSO Overview	6
Interactive Tools	10
CSO Interactive Data Visualisation Hub	10
PxStat	11
Interactive Zone	11
CensusAtSchool	12
Competitions and Awards	15
About the CSO Competitions and Awards	15
John Hooper Medal for Statistics (Poster Competition)	18
Award for the Best Use of CSO Open Data at BTYSTE	20
European Statistics Competition	22
Infographics	24
Contact Details	32

CSO Overview

The Central Statistics Office (CSO) provides Government with quality statistical information, which is vital for the formation, implementation and monitoring of policy and programmes at national, regional and local levels in a rapidly changing economic and social environment. The Office also serves the needs of the wider national and international community for impartial and relevant information on social and economic conditions. The diverse statistics recorded and analysed by the CSO can be classified under five general headings: People and Society, Labour Market and Earnings, Business Sectors, Economy and Environment & Climate, which are expanded upon in the following sections.



People and Society

Census: The census takes place every 5 years and gives an insight into topics such as the historical evolution of the population, the factors affecting population change, the distribution of the population by geographic area and by the main demographic characteristics, i.e. age, sex and marital status and many others.

Education: This data includes details of participation in and expenditure on primary, secondary and third level education, the level of education attained and the link between education and economic status.

Vital Statistics: This is where you can find statistics on births, deaths, marriages, civil partnerships and babies' names which are compiled by the Central Statistics Office on behalf of the Minister for Employment Affairs and Social Protection.

Crime: A number of aspects of justice and defence are examined here, examples being the number of offences recorded by the Garda Síochána and the re-offending rates of those placed on Probation Orders, Community Service Orders and those released from the custody of the Irish Prison Service.

Social conditions: This section covers a broad range of issues in relation to income and living conditions. It is the official source of data on household and individual income and also provides a number of key national poverty indicators, such as the risk of poverty rate and the consistent poverty rate.

Health: Areas covered include Irish health care expenditure and the measurement of the health status of the population in general. Different aspects and dimensions of health are looked at: physical and mental health, chronic and temporary problems and specific conditions.

Information Society: The Information and Communication Technology (ICT) household survey examines the use of ICT by households and individuals. It provides estimates on a range of activities such as personal internet use, online purchasing and household computer access.

Labour Market and Earnings

Labour Market statistics show developments in the Irish labour market, the trends in the **Live Register**, as well as details of **industrial disputes**.

Information is supplied on the average weekly, hourly and annual **earnings of employees**, as well as average and annual total **labour costs** per economic sector.

Business Sectors

Several business sectors are covered, including:

Agriculture: Information on the number of agricultural holdings in each province in Ireland from 1855 to 2010; data on crops and livestock; agricultural accounts and agricultural prices.

Construction: Factors studied include planning permissions, value and volume indices of production in construction, new orders in the sector and output in construction are also measured.

Industry: A detailed examination of factors influencing industrial manufacturing such indices of production, census of industrial production and gross output.

Science and Technology: Data are provided for areas such as Business Expenditure on Research and Development, Information Society statistics and technological innovation.

Services: These statistics provide information on the structure of the services sectors and an indication of changes in the value and volume/quantity of retail sales.

Tourism and Travel: Statistics such as number of overseas trips to Ireland and Irish trips abroad and Overseas Tourism & Travel Expenditure.

Transport: Areas covered include data on vehicle licensing, aviation and port traffic and road freight.

Economy

International Accounts: These statistics present information on Ireland's global transactions and positions, end of year levels of financial assets and liabilities, and shows the trend in saving and investment for households.

Prices: Results are shown for the principal price indices for the non-agricultural sectors and the residential property sector, such as consumer goods, industrial products and building materials.

National Accounts: This division provides data on the overall economy, with a summary of the revenue and expenditure of the Government sector, the General Government Balance and General Government Gross Debt.

Trade: Ireland's Goods Exports and Imports statistics provide data on the movement of goods between countries with classification by commodity and country.

Environment and Climate

Data is provided on such subjects as **BER ratings, environmental taxes, water consumption** and **air emissions**.

The CSO also produces general statistical publications which provide a broad overview of Irish Society, such as:

- The Statistical Yearbook of Ireland;
- Measuring Ireland's Progress;
- Women and Men in Ireland;
- Brexit – Ireland and the UK in Numbers; and
- Life in 1916 Ireland: Stories from Statistics.



Interactive Tools

This hub - visual.cso.ie - presents a visual way to engage with CSO statistics. Through these visualisation apps you can interact with CSO statistics on a number of themes and topics, such as house prices, baby names, vehicle licensing trends, key economic figures and more. Explore local and regional census data in the Census Mapping app or learn about regional agriculture in AgriMap.

Baby Names of Ireland: In this app you can explore the names given to all babies in Ireland since 1964. Check the popularity of any name and how it has changed over time. Discover new names in our random selector or browse through the lists of top names.

Ireland's Top Motors: This app shows the rankings of new vehicles for the most recent month as well as yearly trends in vehicles licensed.

CPI Inflation Calculator: The Consumer Price Index (CPI) measures the average change in the price of consumer goods and services purchased by private households. The inflation calculator is designed to calculate the percentage change in the CPI between two periods of time.

House Prices: In this app you can explore the average (median) property price for an area by Eircode and see a breakdown of buyers and see the trend of sales over time.

Census Mapping: Previously known as SAPmap (Small Area Population map), this app allows users to explore census data in a location of interest by using the address search facility or by pinpointing a location on the map. Users can investigate data at different levels of geography by selecting their preferred geographic boundary to access all of the 2016 census tables that have been produced for that area.

AgriMap: Use this Census of Agriculture mapping app to explore the agricultural structure in an area of interest. Use the address search or pick a location on the map to view information. Try the multi area or radius tools to view information for a selection of areas.

PxStat

PxStat is the CSO's new Open Data Portal, hosting statistics from both the CSO and a number of other public bodies. With this tool, users can explore a database going back to 1841 across a wide range of topics, filter tables to suit their needs, represent data on a map, share direct links to tables, export in a number of formats for later use, or even use an external API to remotely access datasets.

PxStat can be accessed at <https://www.cso.ie/en/databases/> Here, you will also find YouTube clips on how to browse tables and create graphs.

Interactive Zone

The CSO home page has an "Interactive Zone" which links to many useful tools. It contains You Tube videos, visualization tools and other learning resources, along with details of statistical competitions.

Within the interactive zone you will find:

- CSO visualization tools with links to infographics and tools;
- A link to the CensusAtSchool website and associated press releases;
- A link to area profiles for counties, Dáil constituencies and towns;
- A learning resources area where statistics produced by the CSO are explained, resources for Census in Schools and a link to the Institute of Public Administration website;
- Information on CSO competitions, including John Hooper Medal for Statistics, and CSO awards, such as the Award for Best Use of CSO Open Data at BT Young Scientist Exhibition.

There is also access to some very interesting interactive Eurostat infographics:

- Compare yourself to other young Europeans;
- You and the EU - Compare your way of living;
- EU Quality of life - Compare your country to the rest of the EU;
- My Country in a Bubble - Compare EU member states.

History of the UK-based International CensusAtSchool Project

The Royal Statistical Society Centre for Statistical Education (RSSCSE) started the CensusAtSchool project in 2000, in conjunction with the Office for National Statistics in the UK.

Now a non-profit making international project funded by organisations interested in promoting good use of statistics, mathematics and data handling, CensusAtSchool was originally a one-off project linked to the UK population census of 2001. It has since developed into a dynamic, ongoing and exciting initiative running in a number of countries. Ireland became involved in CensusAtSchool in 2009 when the Professional Development Service for Teachers (PDST), the CSO, Project Maths and the National Council for Curriculum and Assessment (NCCA) collaborated to set-up the Irish website **www.censusatschool.ie**

The CensusAtSchool project aims to:

- Involve students in collecting data about themselves and improve understanding of a data gathering process, its purpose and benefits to society;
- Foster a positive attitude to statistics through using real data that is of interest to students;
- Enhance the process of statistical enquiry across the curriculum;
- Encourage effective Information and Communication Technology (ICT) teaching and learning;
- Provide access to large and meaningful data sets;
- Make comparisons between the student responses in different countries.

For more information on CensusAtSchool and how to participate, go to:

<https://censusatschool.ie/take-part/>



Since 2000, several other countries have embraced the project with necessary adjustments to reflect local culture and traditions. These countries include Australia, South Africa, New Zealand, Canada, USA, and Ireland. An International Committee was established in 2007 to enable closer and valid comparisons to be made between the children participating in CensusAtSchool. Five international workshops have taken place to date – in Melbourne, Australia (2007); Los Angeles, USA (2008); Durban, South Africa (2009); London, UK (2010); and San Diego, USA (2012). Do visit the websites of the participating nations and have a look at their projects and the excellent curriculum ideas and resources they have provided.

The worldwide database, which contains well over a million responses, can be sampled over the internet for use in creating teaching and learning materials. It enables teachers and pupils across the world to enhance their data handling skills leading to improved statistical literacy and thinking. The involvement of different countries vastly increases the potential for exchange of information between school-aged children and is a unique way to assess global, social and other changes. It has the added bonus of providing ICT opportunities, and is motivational for both teachers and children alike.

Do take a look at <https://censusatschool.ie/> and get involved. The project is totally free to all Irish Schools and offers a unique and different experience for your pupils.

1. Are you:

- Female Male

2. a) Please state your present age in completed years.

years

2. b) What year are you in at school?

Year e.g. 5th Year

3. In what county do you live?

4. In what country were you born?

5. What is your...

(Answer to nearest tenth of a cm)

Height (without shoes)cm

Open arm spancm

Vertical reachcm

Index finger length (left hand)cm

Ring finger length (left hand)cm

6. a) How do you usually travel to school? (Select one answer)

- Walk Rail/Dart/Luas
 Bus Boat
 Car Other (please specify).....
 Cycle

6. b) How long does it usually take you to travel to school?

(Answer to the nearest minute)

minutes

7. Do you play a musical instrument?

- Yes No

If yes, please state your MAIN musical instrument.

If yes, please state your MAIN musical instrument.

8. In a normal week how many days do you eat meat?

0 1 2 3 4 5 6 7

9. What is your favourite food type?

(Click here for food pyramid)

- Fruit/ Veg
 Carbohydrates (bread, pasta)
 Dairy (milk, yoghurt, cheese)
 Protein (meat, eggs, nuts)

10. How many handfuls (portions) of the following do you regularly eat per day?

- Portions of fruit
 Portions of vegetables
 Portions of sweets/chocolate
 Portions of crisps

11. What is your favourite subject in school?

12. What Science, Technology and Engineering subject, if any, do you study?

13. a) On a scale of 1-10 (where 1 is easy and 10 is difficult) how would you rate the difficulty of the following Science, Technology and Engineering subjects?

- Agricultural Science
 Biology
 Applied Maths
 Chemistry
 Computer Science
 Construction Studies
 Design & Communication Graphics
 Engineering
 Physics
 Physics & Chemistry
 Technology

13. b) Should a Science, Technology and Engineering subject be compulsory for Leaving Certificate?

- Yes No

14. Within the last 12 months did you have a family holiday?

- Yes No

If yes, how did you travel for this holiday? (Select one answer)

- By car By boat
 By rail Other
 By air (Please specify)

15. In the last two years have you visited a historical site relating to Irish events from the period 1912 -1922?

- Yes No

If yes, which of the following sites have you visited?

- The Garden of Remembrance
 Beggars Bush Barracks
 Béal na Bláth
 The GPO, Dublin
 Glasnevin Cemetery
 Kilmarnham Gaol
 Other (Please specify)

16. Has any member of your family - parents, grandparents, great grandparents kept memorabilia relating to Irish events from the period 1912 - 1922?

- Yes No

If yes, please tick what they were.

- Newspapers clippings
 Photographs
 Books
 Audio recordings
 Stamps
 School books
 Handwritten documents/Letters
 Other, (Please specify)

17. What is the population of the Republic of Ireland? (Specify to the nearest 100,000)

18. How many permanent dwellings are in the Republic of Ireland?

- 1.9 million
 2.1 million
 2.4 million

19. If you didn't live in Ireland what country would you like to live in?

About CSO Competitions and Awards

As part of our Educational Outreach programme, the CSO runs statistical competitions and sponsors awards.



John Hooper Poster Competition: The goal of this competition is to improve students' abilities to describe, explore and investigate their environment using statistics. This national competition is open to teams of 2 to 3 students, up to 18 years old. It was first launched in 2010 to mark the first World Statistics Day.

The Award for the Best Use of CSO Open Data at the BT Young Scientist Exhibition: This award is for the most innovative use, or potential use, of CSO data, be it in statistical analyses, processes or outputs, a piece of research, a visualisation or a data map, the development of a device, a software application or the use of CSO data in any other innovative way.

European Statistics Competition (ESC): The main goal of the ESC is to help young people to learn about statistics in a fun and inspiring way. In addition, it encourages teachers to use new methods when teaching about statistics. It also serves to promote the use of facts offered by official statistics and applying learned statistical knowledge. The competition also aims to show pupils and teachers the meaning of statistics in different areas of society and promotes group work and cooperation among students to reach common goals.

Winners of the John Hooper Medal for Statistics 2022, Conor Breen and Seanie O' Shea from Ardscoil na Mara, Tramore, Co. Waterford.





John Hooper Medal for Statistics

John Hooper Statistical Poster Competition

The **John Hooper Medal for Statistics** is awarded to the winner of this national poster competition. The goal of the competition is to improve students' abilities to describe their environment with the help of statistics and to use statistics as a tool for making sense of daily life.

Who can take part?

Teams of 2 to 3 students, born in 2004 and younger, from any part of the island of Ireland. Teachers must register the teams.

How to take part:

1. Find a question
2. Collect or use existing data
3. Review data quality
4. Analyse the data
5. Make the poster

The poster can be about any topic; however, it should reflect or illustrate usage, analysis, interpretation and communication of statistics or statistical information.

Important Dates

- **Registration now open**
[www.cso.ie/ interactivezone](http://www.cso.ie/interactivezone)
- **3 March 2023 (5pm)**
Poster to be submitted via <http://www.cso.ie/interactivezone>
- **31 March 2023**
Results will be announced on our website

Why should you get involved?

Taking part will encourage you to:

- work as a team
- investigate real questions using data
- use your analytical and graphical skills
- interpret statistical results
- develop skills in written communication

Winners are eligible to represent Ireland in the European Statistics Competition.

Prizes



€1,600 – €1,000 awarded to the school; €600 awarded to the team and the CSO John Hooper Medal for Statistics.

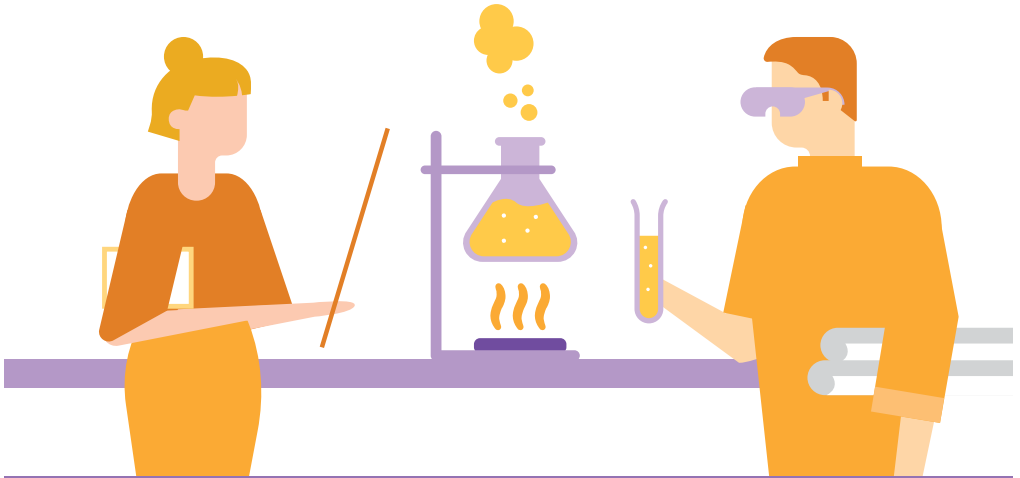


€1,000 – €650 awarded to the school and €350 awarded to the team.



€600 – €400 awarded to the school and €200 awarded to the team.

For further information see www.cso.ie/interactivezone



Best use of CSO Open Data at the BTYSTE

Best Use of CSO Open Data at the BT Young Scientist

Each year the Central Statistics Office sponsors an award at the BT Young Scientist Exhibition, for the best use of CSO Open Data. The award is aimed at encouraging young people to use open data and is given for the most innovative use, or potential use, of CSO data.

Who can take part?

The BT Young Scientist Exhibition is open to individuals or groups of no more than 3 people from the same school and the same age group.

The BTYSTE competition is open to second level students from Ireland, north and south, who are aged between 12 and 19 years on 31st October 2022.

There are 3 age groups:

- **Junior:** 1st & 2nd Year (Rep. of Ireland) / Year 8, 9 & 10 (Northern Ireland)
- **Intermediate:** 3rd & 4th Year (Rep. of Ireland) / Year 11 & 12 (Northern Ireland)
- **Senior:** 5th & 6th Year (Rep. of Ireland) / Year 13 & 14 (Northern Ireland)

Prize



Award for the Best Use of CSO Open Data, presented at the BT Young Scientist Exhibition, and a Medal presented at the Annual CSO Award Ceremony.

Why should you get involved?

The award is aimed at encouraging young people to use open data and is given for the most innovative use, or potential use, of CSO data. The award is an excellent extra-curricular activity for students to add to their CV or College application. The student can develop skills such as research methodology, experiment design, data collection, evaluation and analysis, critical thinking, problem solving, communications, innovation and entrepreneurship. Projects entered into BTYSTE tend to support a cross-curricular approach to STEM learning.

How to take part:

Entries can be in any format, be it in statistical analyses, statistical processes or statistical outputs. They can be scientific or mathematical, a piece of research, a visualisation or a data map, the development of a device, a software application or the use of CSO open data in any other innovative way.

To register for the BTYSTE, go to <https://btyoungscientist.com>

Exhibition Dates

12–14 **January 2023**

For further information see www.cso.ie/interactivezone



European Statistics Competition



European Statistics Competition

The main goal of the European Statistics Competition is to help young people to learn about statistics in a fun and inspiring way. In addition, it encourages teachers to use new methods when teaching about statistics. It also serves to promote the use of facts offered by official statistics and applying learned statistical knowledge.

Who can take part?

The winners of the John Hooper Medal for Statistics 2023 competition from both age categories are eligible to go forward and represent Ireland in this competition.

How to take part:

Participating teams are required to make a video in which they explain a statistical concept. Videos will have a maximum length of two minutes, the topic which will be revealed to participating teams in March 2023. By referencing appropriate statistics, contestants have to demonstrate how their country or region compares with its European counterparts, highlighting interesting characteristics in relation to the European average.

Prizes



Each member and mentor of the winning European teams from both age categories will receive the following awards:

- gift card of €400
- certificate of achievement
- publications and Eurostat promotional material

Why should you get involved?

The main objectives of the ESC are to promote curiosity and interest in statistics among students, to encourage teachers to use new materials for teaching statistics by promoting the use of real data provided by official statistics and search for applications of acquired statistical knowledge. Moreover, it aims to show the role of statistics to students and teachers in various aspects of society, and to promote teamwork and collaboration among students to achieve common goals.

Competition Schedule:

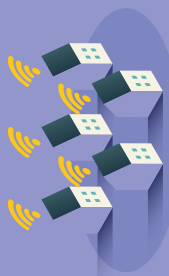
The competition schedule for 2023 is not yet finalised. It normally runs from April to June. CSO will invite participation from John Hooper winners and liaise with them in relation to the requirements.

For further information see www.cso.ie/interactivezone

Irish Babies' Names 2021



Internet Access and Usage Households 2021



93% of all households have internet access

Internet access by household composition



79% 1 adult with no children



99% 2+ adults with children

How often do we use the internet?



89% of internet users use internet daily



35% use it all the time/nearly all the time



26% use it all the time
28% use it nearly all the time

16-29

16-29 year olds

How do we access the internet?



95% of internet users use smartphone / mobile phone



75% of internet users use laptop



Most households of 2+ adults and children use smartphone or mobile phone

Higher Education Outcomes Graduation Years 2010-2019

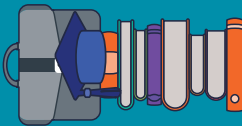
Employment Only

59%



Employment & Education

22%



Education Only

7%



Outcomes: What do graduates do?

27%

In receipt of the PUP* for a period in 2020

Industry Sectors: Where do graduates work?



Male Graduates



Professional, Scientific & Technical Activities

17%



Wholesale & Retail Trade

13%



Industry

11%



Health & Social Work

18%



Wholesale & Retail Trade

15%



Education

15%

Female Graduates

Earnings: What do graduates earn?

Median weekly earnings for all graduates:

€555 per week



Male earnings:

€565 per week



Education

Field with highest and lowest earnings:

€735 per week

Female earnings:

€550 per week



Arts & Humanities

€435 per week

Data refers to 2019 graduates in first year after graduation (2020).
*PUP = Pandemic Unemployment Payment



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www.cso.ie

Census 2022 Preliminary Results

Population



2016 4,761,865

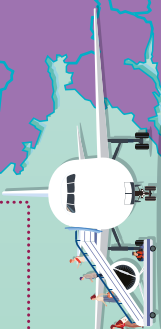
2022
5,123,536

Total Change
361,671



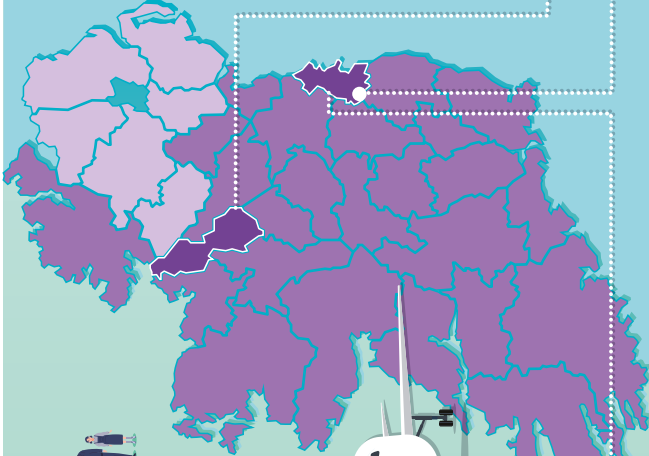
Natural Increase
171,338

Net Migration
190,333



Largest Inward Migration
Dublin at +46,559

First time
the population
exceeds 5 million
in a census since 1851



Housing



2016 2,003,645

2022
2,124,590

Total Change
120,945



Occupied Homes
1,858,526



Vacant Homes
166,752



Vacancy Rate: 7.8%
Percentage Change: -9%

Lowest % Vacant
South Dublin | 4%

Highest % Vacant
Leitrim | 16%

Census Of Agriculture 2020 Preliminary Results

Total Number of Farms

135,037

Average Farm Size

33.4 ha



Livestock Numbers



Poultry

16.5m

Pigs

1.6m

Sheep

5.5m

Cattle

7.3m



Total Agricultural Area

4,509,256 ha

Grassland

4,151,456 ha

Cereals

265,592 ha

Other Crops,
Fruit and
Horticulture

92,208 ha



Farm Ownership

Male Holders

116,936

86.6%

Female Holders

18,101

13.4%

Holders 65+

44,135

32.7%

Holders < 35

9,338

6.9%



98%

of respondents **liked to spend time outdoors. Of these:**



87% spend this time to get **fresh air**



93% felt **happier** after spending time in **natural spaces**



85% spend this time to **enjoy nature**



92% felt **healthier** after spending time in **natural spaces**



Of respondents, over

29%

took up new outdoors activities since the start of the COVID-19 pandemic



58% are concerned about **climate change**



57% are concerned about **water pollution**

When asked if there is still time to act on environmental issues:



43% said yes, there is **still time to improve the state of the environment**



52% said yes, but **it is unlikely to happen**

Of respondents with access to a garden or other outdoor space:

34%

started at least one new gardening activity¹ since the start of the COVID-19 pandemic



¹ Refer to the publication for the list of gardening activities proposed in the survey

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