

CENSUS_INS21ES_A_LI_2021_0000

National Reference Metadata in Euro SDMX Metadata Structure (ESMS)

Compiling agency: Office of Statistics Liechtenstein



Eurostat metadata

Reference metadata

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For any question on data and metadata, please contact: [Eurostat user support](#)

1. Contact Top	
1.1. Contact organisation	Office of Statistics Liechtenstein
1.1.1. Responsible party	Office of Statistics Liechtenstein

1.1.2. Responsible party role	Resource Provider
1.2. Contact organisation unit	Office of Statistics Liechtenstein
1.5. Contact mail address	Office of Statistics Liechtenstein Äulestrasse 51 9490 Vaduz Liechtenstein

2. Metadata update Top	
2.1. Metadata last certified	22/12/2022
2.2. Metadata last posted	22/12/2022
2.3. Metadata last update	22/12/2022

3. Statistical presentation Top	
3.1. Data description	
Census 2021 grid data (provisional, total population)	
3.1.1. Resource title	
Census 2021 grid data, initial data transmission (provisional, total population)	
3.1.2. Resource abstract	
Census 2021 grid data, initial data transmission (provisional, total population)	
3.1.3. Resource type	
Spatial data set series	
3.1.3.1. Additional information if 'spatial data set' is marked	
https://data.europa.eu/en	
3.1.4. Resource locator	

3.1.5. Unique resource identifier
https://data.europa.eu/en
3.1.6. Coupled resource
https://data.europa.eu/en
3.1.7. Resource language
en
3.1.8. Keyword value
Population Distribution
3.1.9. Originating controlled vocabulary
https://inspire.ec.europa.eu/theme/pd
3.1.10. Metadata language
en
3.2. Classification system
n/a
3.3. Coverage - sector
n/a
3.3.1. Topic category
Society
3.3.2. Spatial data service type
Download Service
3.4. Statistical concepts and definitions
see individual concepts and definitions below
3.4.1. Statistical concepts and definitions - Total population
For census purposes, the total population of the country consists of all the persons falling within the scope of the census on usual residents.

Usual residence means the place where a person normally spends the daily period of rest, regardless of temporary absences for purposes of recreation, holidays, visits to friends and relatives, business, medical treatment or religious pilgrimage.

Persons usually resident in the place of enumeration but absent, or expected to be absent, at the time of the census for less than one year shall be considered as temporarily absent persons and thus included in the total population. In contrast, persons living or expected to live outside the place of enumeration for one year or more shall not be considered temporarily absent and shall therefore be excluded from the total population. This is regardless of the length of visits that they may pay to their families from time to time.

Persons who are enumerated but do not meet the criteria for usual residence in the place of enumeration, i.e. do not live or are not expected to live in the place of enumeration for a continuous period of at least 12 months, are considered temporarily present and are therefore not counted in the total usually resident population. Unless otherwise stated in this report.

3.4.2. Statistical concepts and definitions - Sex

male/female

3.4.3. Statistical concepts and definitions - Age

The age reached at the reference date (in completed years).

3.4.4. Statistical concepts and definitions - Employed person

Employed persons comprise all persons aged 15 years or over who during the week prior to the reference date:

- (a) performed at least one hour of work for pay or profit, in cash or in kind, or
- (b) were temporarily absent from a job in which they had already worked and to which they maintained a formal attachment, or from a self-employment activity.

3.4.5. Statistical concepts and definitions - Place of birth

The concept place of birth for a person usually refers the place of usual residence of the mother at the time of the person's birth, or, if not available, the place in which the birth took place.

3.4.6. Statistical concepts and definitions - Place of usual residence one year prior to the census

The relationship between the current place of usual residence and the place of usual residence one year prior to the census according to the population register.

3.5. Statistical unit

persons

3.6. Statistical population
Persons enumerated in the census are persons falling within the scope of the census on usual residents as defined in the section on statistical concepts.
3.7. Reference area
LI
3.7.1. Geographic bounding box
west: 9.46deg / east: 9.64deg south: 47.04deg / north: 47.28deg
3.7.2. Spatial resolution
1000 Unit:m
3.7.3. Coordinate Reference System
EPSG:3035 - ETRS89 / LAEA Europe
3.8. Coverage - Time
Data refer to the situation in the reporting country at the census reference date.
3.9. Base period
Not applicable.

4. Unit of measure Top
Counts of statistical units.

5. Reference Period Top
01.01.2021
5.1. Temporal extent
01.01.2021

6. Institutional Mandate	Top
6.1. Institutional Mandate - legal acts and other agreements	
<p>Regulation (EC) No 763/2008 on population and housing censuses Commission Implementing Regulation (EU) 2018/1799 of 21 November 2018 on the establishment of a temporary direct statistical action for the dissemination of selected topics of the 2021 population and housing census geocoded to a 1 km² grid Statistikgesetz (Statistics Act - Liechtenstein Law Gazette 2008 No 271) Statistikverordnung (Statistics Ordinance - Liechtenstein Law Gazette 2009 No 197)</p>	
6.2. Institutional Mandate - data sharing	
n/a	

7. Confidentiality	Top
7.1. Confidentiality - policy	
<p>Data protection and disclosure conditions are governed by the Statistikgesetz (Statistics Act - Liechtenstein Law Gazette 2008 No 271) and the Statistikverordnung (Statistics Ordinance - Liechtenstein Law Gazette 2009 No 197). They are also covered by the Datenschutzgesetz (Data Protection Act - Liechtenstein Law Gazette 2002 No 55) and the Datenschutzverordnung (Data Protection Ordinance - Liechtenstein Law Gazette 2002 No 102).</p>	
7.2. Confidentiality - data treatment	
<p>Pursuant to Article 19 of the Statistikgesetz (Statistics Act - Liechtenstein Law Gazette 2008 No 271), statistical publications "may not enable any conclusions to be drawn regarding the circumstances of an individual, identifiable person". "Statistical data may be used only for statistical purposes" (Article 16). Persons entrusted with statistics activities "must treat as confidential all personal data that they may have come across in their work" (Article 16). Moreover, "Personal data [...] must be protected against unauthorised handling through appropriate technical and organisational measures" (Article 18). Before statistical results are published, a test is conducted to test whether they can be traced back to individuals. If necessary, statistical disclosure protection methods are used to minimise the risk of tracing back to individuals.</p> <p>For data published via Census Hub, an appropriate method for statistical disclosure control may be applied, or certain values may be flagged as 'confidential'. For the census grid data the application of the 'confidential' flag is not foreseen for the total population value.</p>	

8. Release policy	Top
8.1. Release calendar	
Provisional grid data on total population is made available to Eurostat until 31 December 2022 and published by Eurostat thereafter. Final grid data is made available to Eurostat until 31 March 2024.	
8.2. Release calendar access	
Release or transmission dates are defined in the pertaining regulations	
8.3. Release policy - user access	
Grid data is disseminated by Eurostat upon transmission of data from NSIs to Eurostat	
8.3.1. Conditions applying to access and use	
https://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/noConditionsApply	
8.3.2. Limitations on public access	
https://inspire.ec.europa.eu/metadata-codelist/ConditionsApplyingToAccessAndUse/noConditionsApply	

9. Frequency of dissemination	Top
Decennial	

10. Accessibility and clarity	Top
10.1. Dissemination format - News release	
n/a	
10.2. Dissemination format - Publications	
n/a	
10.3. Dissemination format - online database	
n/a	

10.4. Dissemination format - microdata access
n/a
10.5. Dissemination format - other
n/a
10.6. Documentation on methodology
n/a
10.7. Quality management - documentation
n/a

11. Quality management	Top
11.1. Quality assurance	
The second-pair-of-eyes principle is used for statistical publications. This means that a second person checks the draft of each statistical publication for quality before it is published. Control calculations and comparisons with previous years are also carried out.	
11.1.1. Lineage	
Grid containing provisional data on total population only, no breakdowns (initial data transmission). Data have been validated.	
11.1.2. Conformity, specification	
Dataset conforming to the Commission Implementing Regulation (EU) 2018/1799 of 21 November 2018	
11.1.3. Conformity, degree	
initial data transmission only (provisional, no breakdowns), full conformity	
11.2. Quality management - assessment	
Overall quality of census data can be considered high.	

12. Relevance	Top
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12.1. Relevance - User Needs
The census data disseminated by Eurostat are addressed to policy makers, researchers, media and the general public.
12.2. Relevance - User Satisfaction
No user satisfaction surveys are carried out.
12.3. Completeness
Depends on the availability of data transmitted by the National Statistical Institutes.

13. Accuracy	Top
13.1. Accuracy - overall	
There are no particular reasons for data unreliability for this topic. Quality of the place of usual residence for persons can be considered high. Accuracy of geographical coordinates for building centroids representing the place of usual residence have been determined as better than 10m using land surveying data.	
13.2. Sampling error	
n/a	
13.3. Non-sampling error	
n/a	

14. Timeliness and punctuality	Top
14.1. Timeliness	
Data of initial data transmission made available to Eurostat within legal deadline.	
14.1.1. Date of publication	
Due date of initial transmission to Eurostat 31.12.2022	

14.1.2. Date of last revision
22/12/2022
14.1.3. Date of creation
22/12/2022
14.2. Punctuality
Data transmitted by 31.12.2022

15. Coherence and comparability	Top
15.1. Comparability - geographical	
Data comparable within entire domain/country.	
15.1.1. Geographic information - data quality	
Accurate (error < 10m) and comparable geographical positions (centroid coordinates) are available for all buildings over the entire country. The Register of Buildings and Dwellings containing building coordinates is continuously updated based on building permissions and land surveys.	
15.2. Comparability - over time	
Geographical data used for geocoding are comparable over time.	
15.3. Coherence - cross domain	
Grid data are coherent with other data disseminated within the framework of the 2021 Population and Housing Census. Figures may differ from those disseminated in other statistical domains due to differences in definitions and methodologies used. For differences refer to metadata specific for each domain.	
15.4. Coherence - internal	
Internal coherence for Census data is assured by regulations defining breakdowns and definitions of topics (Commission Implementing Regulation (EU) 2017/543, Commission Implementing Regulation (EU) 2018/1799)	

16. Cost and Burden	Top
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Initial data transmission is based on register data only and does not put any cost or burden on respondents.

17. Data revision

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17.1. Data revision - policy

Initial transmission contains only provisional total population, final data transmission contains revised total population and breakdowns.

17.2. Data revision - practice

n/a

18. Statistical processing

[Top](#)

18.1. Source data

Source data for initial grid data transmission are the population register and the register of buildings and dwellings

18.2. Frequency of data collection

decennial

18.3. Data collection

The place of usual residence of each person of the usually resident population is gathered from the Central Population Register, which contains the place of usual residence in the form of a building identification number. The Register of Buildings and Dwellings contains coordinates for all buildings. The link between the two registers provides coordinates for each person of the usually resident population.

18.4. Data validation

Data have been validated by a series of plausibility checks, including internal consistency checks, comparisons of register data with questionnaire data from the census (full enumeration), comparison with administrative data sources (land surveying data, cadastral data) and control calculations.

18.5. Data compilation

Building centroid coordinates representing the place of usual residence for each person of the usually resident population have been projected from official coordinates (LV95, EPSG:2056) onto the ETRS1989-LAEA grid (EPSG:3035) and truncated to the lower left corner coordinates of the corresponding grid cell using the SAS software's PROJ-capabilities. Total population has been summed up over the entire grid cells. Land surface values have been calculated by intersecting land surface area with a 1km²-LAEA grid.

18.6. Adjustment

No adjustments have been performed.

19. Comment

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n/a

Related metadata

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Annexes

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