



REPUBLIC OF CROATIA  
CROATIAN BUREAU OF STATISTICS



## **QUALITY REPORT FOR STATISTICAL SURVEY**

### **Annual Report on Demolished Building with Dwellings and Conversion of Residential Area (GRAD-71) for 2019**

Organisational unit: Construction Statistics Department

Prepared by: Srećko Palej

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## 0. Basic information

- Purpose, goal, and subject of the survey

The main aim of this statistical survey is to obtain data on dwellings excluded from a dwelling stock due to demolition or conversion into a non-residential area, or for other reasons. These data, together with data on completed dwellings, enable calculation of dwelling stock in a period between population and dwelling censuses, which are conducted every ten years, as well as comparability with international institutions. The topic of the survey is every demolished building containing one or more completed dwellings, including buildings and dwellings used for vacation and recreation, conversion of dwellings into a non-residential area or merging of two or more dwellings into one. This survey does not include residencies for communities, so called collective dwellings (e.g. homes for children and other socially endangered persons, elderly peoples' homes, boarding schools, pupils' and students' homes, hotels for bachelors etc.), spaces inhabited out of necessity (garages, non-adapted basement spaces, shanties and other objects of poor material, like battens, wattle, cartons etc.) and buildings with no completed dwellings (e.g. illegally constructed buildings if no dwelling has been completed at the time of demolition are not included).

- Reference period

Calendar year

- Legal acts and other agreements

Legal basis:

- Official Statistics Act (NN, No 25/20)
- Programme of Statistical Activities of the Republic of Croatia
- Annual Implementation Plan of Statistical Activities of the Republic of Croatia
- Programme of Current Housing and Building Statistics for Countries in the UN/ECE Region
- Conference of European Statisticians Recommendations for the 2020 Censuses of Population and Housing, United Nations, New York and Geneva, 2015.

The obligation of reporting units to submit data is based on Article 45 of the Official Statistics Act (NN, No 25/20).

Refusing to provide data, providing incomplete and inaccurate data, or failing to provide data within the prescribed deadline will be subject to the misdemeanour provisions laid down in Article 76 of the aforementioned Act.

- Classification system

National Classification of Types of Constructions

- Concepts and definitions

The observed variables are the following:

- 1) Buildings are permanent constructions covered with roof and closed with outer walls. They are built as separate useful units that protect from weather and other conditions, intended for dwelling, performing a certain activity or for accommodation and protection of animals, goods, equipment used in various industrial activities and for services etc. Buildings are also constructions covered with roof but without (some of the) walls, e.g. porches, as well as constructions located partly or completely under the ground, e.g. underground shelters, garages, shopping centres and other business spaces (e.g. in subways) etc.
- 2) Dwelling is a residential construction unit consisting of one or more rooms with accessory spaces, such as a kitchen, pantry, bathroom, toilet, etc., or without accessory spaces, and it can also have one or more separate entrances from the staircase or directly from the street or yard. A

completed dwelling is a dwelling in which all planned construction works are done. Included are dwellings in new buildings and dwellings added to existing buildings if constructed as entirely new residential units and new dwellings created by conversion of a non-residential into a residential area. Dwellings under reconstruction due to the war damages are considered new dwellings only in case they were rebuilt from the foundations. Data on completed dwellings refer to dwellings that were completed in the course of the reporting period (year), irrespective of when the construction works had begun.

- 3) Useful floor area of a dwelling is a floor area of a dwelling, measured inside the walls of the dwelling.
  - 4) Dwelling has an installation for water supply when at least one room in the dwelling has water pipes, no matter whether or not they are connected to the public water supply system or private facilities.
  - 5) Dwelling has an installation for sewage when at least one room in the dwelling has waste pipe, leading outside the building, no matter whether or not they are connected to the public sewage disposal plant or private facility for waste water (septic tank, cesspool etc.) or waste water is emptied directly to the environment (an open ditch, a river, a pit, a sea).
  - 6) Dwelling has a toilet when toilet facility is in a separate room or in a bathroom inside the dwelling.
  - 7) Dwelling has a bathroom when bath or shower is in a separate room inside the dwelling and in which water supply and waste pipe are installed.
- **Statistical units**

Reporting units are competent administration bodies in big towns, the City of Zagreb and in counties competent for administrative affairs related to construction as well as the State Directorate – Building Inspection Sector. Observation units are demolished buildings with completed dwellings.

- **Statistical population**

Dwellings excluded from the dwelling stock due to demolition or conversion into a non-residential area: number and useful floor area of dwellings by number of rooms, installations and accessory spaces of dwellings, reasons for demolition. There are 139 reporting units.

## **1. Relevance**

### **1.1. Data users**

Collected data, together with data on dwellings completed, are needed by:

- Croatian Bureau of Statistics:
  - data for the Rent Questionnaire – European Comparison Programme (ECP)
  - for computing the dwelling stock in the intercensus period
- for national and non-national users, data on total dwelling stock are the basis for situation analysis and estimation of the market size in the Republic of Croatia in relation to making investment and other business decisions.

#### **1.1.1. User needs**

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- for national and non-national users, data on total dwelling stock are the basis for situation analysis and estimation of the market size in the Republic of Croatia in relation to making investment and other business decisions.

#### 1.1.2. User satisfaction

The first user satisfaction survey of the Croatian Bureau of Statistics was conducted in 2013, the second one in 2015, and the last one at the end of 2022. The results of the survey are available on the website of the Croatian Bureau of Statistics – [User satisfaction surveys](#).

### 1.2. Completeness

Data are complete and consistent with:

- The Programme of Current Housing and Building Statistics for Countries in the UN/ECE Region (No. 43, ISBN 92-1-116584-9)
- Conference of European Statisticians Recommendations for the 2020 Censuses of Population and Housing, United Nations, New York and Geneva, 2015.

#### 1.2.1. Data completeness rate

Data completeness rate is: 100%

## 2. Accuracy and reliability

### 2.1. Sampling error

Not applicable. Croatian Bureau of Statistics uses exhaustive survey as a data collection method (not sampling).

#### 2.1.1. Sampling error indicators

The indicator is not applicable.

### 2.2. Non-sampling error

Non-sampling errors are linked to all other errors that are not connected with the sample selection – coverage, measurement, processing, non-response. They are calculated and checked on regular basis.

#### 2.2.1. Coverage error

Due to insufficient data sources on demolished dwellings and a lack of records, this statistical survey does not include abandoned and dilapidated dwellings that cannot be used for residence any longer, as well as due to changes in purpose of a dwelling (e.g., when it is used for non-residential purposes).

#### 2.2.2. Over-coverage rate

The indicator is not applicable.

#### 2.2.3. Measurement errors

Causes of errors in measurements when collecting data that occur due to ignorance, negligence, lack of appreciation of the importance of the statistics, not knowing how to respond, conscious/unconscious presentation of inaccurate data by respondents. Problems on presentation of inaccurate data by respondents due to unclear questions in the questionnaire, measurement units or instructions for filling in the forms are minor due to the fact that the availability of data was taken into consideration while defining their contents. In addition, reporting units are welcome to contact Branch Units of the Croatian Bureau of Statistics, the administrative body of the City of Zagreb competent for official statistics issues (who helps reporting units in filling in reports and controls the completeness and accuracy of data before they are submitted to the Croatian Bureau of Statistics) or directly the Croatian Bureau of Statistics in case they need information or help in resolving ambiguities. These measurement errors do not

represent a major issue, since they are revealed during the visual and calculation checks of data before they are entered in the computer as well as by the default computerised data verification during data processing. When such an illogicality or errors are spotted, reporting units are contacted for the check-up of inaccurate and incomplete data and for the correction of inaccurate data.

#### 2.2.4. Non-response errors

##### Unit non-response

The survey is exhaustive. Response rate is 100%. All data are available according to deadlines. For late or missing data, units are contacted by phone or via urging letters and asked to provide the missing data.

##### Item non-response

No incidents of item non-response are recorded. Namely, in the data processing phase, the reporting units that have not fully completed the questionnaire are contacted by phone and asked to provide corrected or missing data. Response rate is 100%.

#### 2.2.5. Unit non-response rate

Unweighted non-response rate is: 0%

Weighted non-response rate is: -.

#### 2.2.6. Item non-response rate

%

Unweighted item non-response rate	Domain	Domain value	Notice	Value
Non-response rate for all variables	Croatia	Croatia		0

#### 2.2.7. Processing errors

The Croatian Bureau of Statistics checks whether data are accurate, fully covered and logical, codes identification and other data and then enters data and performs the computer processing. Data are verified before and after they have been entered into the computer. The incorrect, incomplete and missing data are corrected. Statisticians enter and code the data manually. Data validation is performed according to the specified conditions. Respondents' errors, coding errors and data entry errors are corrected manually and electronically as follows:

- Manual data verification of questionnaires is performed before data are entered into the computer. The reporting units that have not fully completed the questionnaire (incorrect, incomplete or missing data) are contacted by phone and asked to provide corrected and complete data.
- Electronic data validation is performed after entering data into the computer. Reports that fail to meet the quality standards are subject to verification and corrections, if needed. The correction procedures are implemented by priority so that severe errors are generally corrected manually and more time is spent on their correction, while less attention is paid to minor errors that are mostly corrected using the automatic command integrated in the computer.

#### 2.2.8. Imputation rate

%

Unweighted imputation rate	Domain	Domain value	Notice	Value
All variables	Croatia	Croatia		0

#### 2.2.9. Model assumption error

Not available.

## **2.3. Data revision**

### 2.3.1. Data revision – policy

The users of statistical data are informed about revision (preliminary, final data) on the website of the Croatian Bureau of Statistics [Microsoft Word - General Revision Policy of the CBS.doc \(gov.hr\)](#). Revisions are done for correcting errors or major changes in classifications or methodology. Routine revisions are not carried out since all data are available according to deadlines. Notices about minor changes are announced in the First Release at the time the change has been introduced. The data publishing revision policy of the Croatian Bureau of Statistics includes the following:

#### 1) Update of the Calendar of Statistical Data Issues

The data publishing revision policy of the Croatian Bureau of Statistics is conducted according to the deadlines announced in advance by updating the Calendar of Statistical Data Issues. According to the Official Statistics Act, changes in the release deadlines for publications/data are announced in advance. The Croatian Bureau of Statistics is obliged to announce each change in the release deadlines (the Calendar update) at least three days prior to the date originally announced in the Calendar on the web site of the Croatian Bureau of Statistics. The update of the release deadlines for data or publications (the update of the Calendar) is announced without delay on the Croatian Bureau of Statistics' website by updating the date in the Calendar and putting the notice "updated" beside the Calendar, with the accurate new date. Therefore, the Calendar that contains the original release deadline for a particular publication/statistical information is replaced with the new Calendar, which includes the updated release deadline. The original Calendar is kept in the Publishing Department which registers every change in release deadlines for publications in the Calendar Update Base.

#### 2) Release of corrections of issued data

In cases when an error is observed in the published data, the Croatian Bureau of Statistics issues a correction as soon as possible and as simple as possible in order to help users to clearly see what has been changed in comparison to the originally published data. The correction is done by marking the incorrect data with an asterisk and creating the correction.

### 2.3.2. Data revision – practice

Data are disseminated as final and are not subject to any revision. For this reason, numeric information on the size of typical revision and regular sources of revisions are not applicable. If errors occur, corrected data are released in the next issue of the First Release. Data changed in relation to the previously released ones are disseminated with a commentary. Major changes in the methodology are published in the First Release at the time the change has been introduced. The general practice is to explain all changes in the methodology when the data based on the new methodology are published for the first time. Information on methodological changes are provided in the Notes on Methodology that are a part of all related paper or electronic publications.

### 2.3.3. Data revision – average size

The indicator is not applicable.

## **2.4. Seasonal adjustment**

Not applicable.

## **3. Timeliness and punctuality**

### **3.1. Timeliness**

The final data are published with five months delay from the end of the reference period.

#### 3.1.1. Timeliness – first results

The indicator is not applicable.

### 3.1.2. Timeliness – final results

Time lag of final results is: T + 5 months.

## 3.2. Punctuality

First Release was published according to deadlines in line with the Calendar of Statistical Data Issues. There was no time lag between the actual release date and the date announced in the Calendar.

### 3.2.1. Punctuality – delivery and publication

Delivery and publication is: 1

## 4. Accessibility and clarity

The results of the statistical survey are published in the following statistical publications: First Releases (annual) and the Statistical Report "Construction" (in Croatian and English). These publications also contain brief Notes on Methodology. Detailed notes on methodology are published in the Methodological Guidelines No. 17 entitled "Annual Report on Demolished Building Containing Dwellings and Conversion of Residential Area", Croatian Bureau of Statistics, Zagreb, 1998 (only in Croatian). All publications are available to users in printed and electronic format, in the section Construction, on the website of the [Croatian Bureau of Statistics](#). All statistical publications are released simultaneously to all users at 11:00 am. No one has advantage in accessing the data.

### 4.1. News release

Annual data for a particular reference year are regularly published in the First Release entitled "Demolished Dwellings" at the beginning of June of the following year. Released data are available on the website address [Construction | Državni zavod za statistiku \(dzs.hr\)](#).

### 4.2. Online database

Not available.

### 4.3. Microdata access

The conditions under which certain users can have access to microdata are regulated by The Ordinance on conditions and terms of access and use of confidential statistical data of the Croatian Bureau of Statistics for scientific purposes (OG, No. 5/23).

[The Ordinance on conditions and terms of access and use of confidential statistical data of the Croatian Bureau of Statistics for scientific purposes](#)

### 4.4. Documentation on methodology

Data are released regularly in the following publications: First Release and the Statistical Report "Construction" (in Croatian and English). These publications also contain brief Notes on Methodology. All publications are available to users in printed and electronic format, in the section Construction, on the website of the [Croatian Bureau of Statistics](#).

National documents:

- Brief notes on methodology are available in annual publications
- Detailed notes on methodology are published in the Methodological Guidelines No. 17 entitled "Annual Report on Demolished Building Containing Dwellings and Conversion of Residential Area", Croatian Bureau of Statistics, Zagreb, 1998 (only in Croatian).

## **5. Coherence and comparability**

### **5.1. Asymmetry for mirror flows statistics**

Not applicable.

### **5.2. Comparability over time**

The survey was carried out for the first time for the reference year 1961. In 1997 there was the revision of the survey in order cover the dwellings excluded from the dwelling stock due to conversion residential spaces into non-residential area or merging of two or more dwellings into one. Data have been comparable since 1997.

#### 5.2.1. Length of comparable time series

Length of comparable time series is: 23

#### 5.2.2. Reasons for break in time series

Changes in the methodology.

### **5.3. Coherence – short-term and structural data**

The indicator is not applicable.

### **5.4. Coherence – national accounts**

The indicator is not applicable.

### **5.5. Coherence – administrative sources**

The indicator is not applicable.

## **6. Cost and burden**

### **6.1. Cost**

Operational costs amount to 3 500 hours a year.

### **6.2. Burden**

Not available.