



REPUBLIC OF CROATIA



CROATIAN BUREAU OF STATISTICS

**QUALITY REPORT FOR STATISTICAL SURVEY**  
**Monthly Survey on Industrial Producer Prices**  
**(IND-3/KPS/M)**  
**For 2018**

Organisational unit: Industrial Annual Business Statistics and Producer Prices Unit  
Prepared by: Goran Dolšak

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## 0. Basic information

- Purpose, goal, and subject of the survey

The survey measures the changes of producer prices of manufactured goods produced in the Republic of Croatia and sold by producers on the domestic (Croatian) and/or the non-domestic (non-Croatian) market.

- Reference period

Month

- Legal acts and other agreements

Council Regulation (EC) No. 1165/98 of 19 May 1998 concerning short-term statistics (OJ L 162, 5.6.1998)

Regulation (EC) No 1158/2005 of the European Parliament and of the Council of 6 July 2005 amending Council Regulation (EC) No 1165/98 of 19 May 1998 concerning short-term statistics (OJ L 191, 22.7.2005)

Commission Regulation (EC) No 1503/2006 of 28 September 2006 implementing and amending Council Regulation (EC) No 1165/98 concerning short-term statistics as regards definitions of variables, list of variables and frequency of data compilation (OJ L 281, 12.10.2006)

Commission Regulation (EC) No 656/2007 of 14 June 2007 amending Regulation (EC) No 586/2001 on implementing Council Regulation (EC) No 1165/98 concerning short-term statistics as regards the definition of main industrial groupings (MIGs), (OJ L 155, 15.6.2007)

Commission Regulation (EC) No 472/2008 of 29 May 2008 implementing Council Regulation (EC) No 1165/98 concerning short-term statistics as regards the first base year to be applied for time series in NACE Revision 2 and, for time series prior to 2009 to be transmitted according to NACE Revision 2, the level of detail, the form, the first reference period, and the reference period (OJ L 140, 30.5.2008)

Commission Regulation (EC) No 329/2009 of 22 April 2009 amending Council Regulation (EC) No 1165/98 concerning short-term statistics as regards the updating of the list of variables, the frequency of compilation of the statistics and the levels of breakdown and aggregation to be applied to the variables (OJ L 103, 23.4.2009)

Other international standards:

Methodology of Short-Term Business Statistics, Eurostat, ISSN 1725-0099, European Communities, Luxembourg, 2006

Recommendations for Publishing STS Data, Eurostat, January 2009

- Classification system

Statistical Standards for the Monthly Survey on Industrial Producer Prices (IND-3/KPS/M)

Nomenclature of Industrial Products, 2016 version – NIP 2016.

National Classification of Activities, 2007 version – NKD 2007.

Classification of Products by Activities of the Republic of Croatia, 2015 version – KPD 2015.

- Concepts and definitions

Total industrial producer price index is composed of two subindices, that is, the industrial producer price index on the domestic market and the industrial producer price index on the non-domestic market.

Industrial producer price indices on the domestic market and the non-domestic market are calculated according to the Laspeyres formula for different levels of the NKD 2007.

Individual indices for each representative product are calculated from data on prices by putting in relation prices of a current period and prices of a base period (December of a previous year).

Aggregate indices, that is, indices of groups, divisions and sections of the NKD 2007. as well as the total industry index are calculated by a weighted arithmetic mean from individual indices according to the modified Laspeyres formula.

- Statistical units

The reporting units included in the IND-3/KPS/M survey are selected enterprises (legal entities and tradesmen) that produce selected industrial products.

- Statistical population

The reporting units included in the IND-3/KPS/M survey are selected enterprises (legal entities and tradesmen) that produce selected products as defined in the Nomenclature of Industrial Products – NIP 2016., classified in the NKD 2007. (NN, Nos 58/07 and 72/07) B - Mining and quarrying, C - Manufacturing, D - Electricity, gas, steam and air conditioning supply, E - Water supply; sewerage, waste management and remediation activities (only division 36).

## 1. Relevance

### 1.1. Data users

Internal:

- users from the Croatian Bureau of Statistics: National Accounts Directorate

External:

- national users: ministries and state administration bodies, Croatian Chamber of Economy and business entities; international users: policy DGs of the European Commission.

#### 1.1.1. User needs

Users require detailed data on movements of short-term industry indicators (specific activity) for market analysis, business monitoring and decision-making (business entities) purposes, for research and writing academic papers purposes (students).

### 1.1.2. User satisfaction

The first user satisfaction survey of the Croatian Bureau of Statistics was carried out in 2013, and the second one in 2015, for which detailed data are available on the website of the Croatian Bureau of Statistics under the section Quality:

[http://www.dzs.hr/Hrv/international/Quality\\_Report/Quality\\_Report\\_Documents/Quality\\_Report\\_Satisfaction\\_Survey.pdf](http://www.dzs.hr/Hrv/international/Quality_Report/Quality_Report_Documents/Quality_Report_Satisfaction_Survey.pdf)

## 1.2. Completeness

Data are fully harmonised with EU concepts and definitions, particularly with Council Regulation (EC) No 1165/98 and Commission Regulation (EC) No 656/2007.

### 1.2.1. Data completeness rate

Data completeness rate is 100%.

## 2. Accuracy and reliability

### 2.1. Sampling error

The survey is based on the cut-off sample.

#### 2.1.1. Sampling error indicators

The indicator for this survey is not applicable.

#### 2.1.2. Bias in sample selection process

Bias in sample selection process for certain statistics:

Statistics	Coverage	Value of coverage	January	February	March	April	May	June	July	August	September	October	November	December	Average
IND-3/KPS/M	Croatia	Croatia	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95

### 2.2. Non-sampling error

Error in estimations that cannot be linked to the sample selection is the unit non-response (the unit non-response rate is approximately 0.1%). In that case, data are estimated but have no impact on key results.

#### 2.2.1. Coverage error

In order to collect the data on the industrial producer prices on the domestic and non-domestic market, the IND-3/KPS/M survey for 2018 covers a representative sample of industrial products at the level of covered activity classes of the NKD 2007., that is, all products the sale of which generated more than 20 million kuna on the domestic market and 15 million kuna on the non-domestic market according to the results of the PRODCOM Survey on Industrial Production (IND-21/PRODCOM/G form) for 2016. The selection of enterprises has been done according to their share in the production of selected products, separately for the domestic and non-domestic market.

### 2.2.2. Over-coverage rate

The indicator for this survey is not computed.

### 2.2.3. Measurement errors

Data collection via an electronic form on the website of the Croatian Bureau of Statistics has greatly reduced the possibility of calculation errors, incorrect codes and units of measurement.

The form contains various warnings in case there is a visible deviation from previous months.

Errors made by companies when entering data that do not later pass data verification can occur, and are resolved by contacting the person in charge of filling out the form.

### 2.2.4. Non-response errors

In case of non-response of a unit, data are estimated but have no impact on key results.

### 2.2.5. Unit non-response rate

Unweighted non-response rate:

Coverage	Value of coverage	January	February	March	April	May	June	July	August	September	October	November	December	Average
Croatia	Croatia	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.15

### 2.2.6. Item non-response rate

Unweighted non-response rate for certain variables

Variable	Coverage	Value of coverage	January	February	March	April	May	June	July	August	September	October	November	December	Average
Producer prices of industrial products	Croatia	Croatia	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.15

### 2.2.7. Processing errors

The classification according to the NKD is taken over from the annual PRODCOM survey and the Statistical Business Register (SBR). At the beginning of each year, the compatibility of the type of production and the indicated NKD activity is checked for the companies included in the scope of the survey, thus reducing incorrect classification according to the NKD classification. The data validation check has been established to check the data themselves.

### 2.2.8. Imputation rate

The indicator for this survey is not applicable.

#### 2.2.9. Editing rate

The indicator for this survey is not computed.

#### 2.2.10. Hit rate

The indicator for this survey is not computed.

#### 2.2.11. Model assumption error

The estimate calculation model is not applied.

### **2.3. Data revision**

#### 2.3.1. Data revision – policy

Data are disseminated as final and as such they are not subject to any revision.

#### 2.3.2. Data revision – practice

Data are disseminated as final and as such they are not subject to any revision.

#### 2.3.3. Data revision – average size

The indicator for this survey is not applicable.

### **2.4. Seasonal adjustment**

Not applied.

## **3. Timeliness and punctuality**

### **3.1. Timeliness**

#### 3.1.1. Time lag – first results

Time lag – first results is T + 9 days.

#### 3.1.2. Time lag – final results

Time lag – final results is T + 9 days.

### **3.2. Punctuality**

#### 3.2.1. Punctuality – delivery and publication

Punctuality is 0.

The punctuality of the first and final results is calculated as the difference between the publication date available in the Calendar of Statistical Data Issues and the date of publishing online.

#### **4. Accessibility and clarity**

Monthly First Releases, Statistics in Line, annual statistical report on industry, Statistical Yearbook of the Republic of Croatia.

Data are available online on the website of the Croatian Bureau of Statistics and in printed form at the Library of the Croatian Bureau of Statistics for reading or purchase.

##### **4.1. News release**

Monthly First Release 2.1.1. Industrial Producer Price Index

##### **4.2. Other publications**

Short-Term Indicators of Industry – Industrial Production, Producer Prices and Turnover of Industry (Statistical Report)

Statistical Yearbook of the Republic of Croatia

##### **4.3. Online database**

On the website of the Croatian Bureau of Statistics under the Statistics in Line:

<http://www.dzs.hr/Hrv/publication/StatisticsInLine.htm>

##### **4.4. Micro-data access**

The conditions under which certain users can access microdata are regulated by the Ordinance on the Conditions and Manner of Using Confidential Statistical Data for Scientific Purposes (NN, No. 103/03, 75/09, 59/12 and 12/13 – consolidated text).

##### **4.5. Documentation on methodology**

Description of the methodology and data sources can be found at the end of each First Release and Statistical Report: monthly First Release 2.1.1. Industrial Producer Price Index, and annual Statistical Report Short-Term Indicators of Industry – Industrial Production, Producer Prices and Turnover of Industry.

#### **5. Comparability**

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

Not applicable.

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

###### **5.2.1. Length of comparable time series**

Length of comparable time series is 108 months.

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

Main revisions are planned to be carried out every five years in relation to the change of the reference year due to the change of the National Classification of Activities (NKD). Currently, 2015 is applied as the base year with no major needs for revision.

## **6. Coherence**

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

The indicator for this survey is not applicable.

### **6.2. Coherence – national accounts**

The indicator for this survey is not applicable.

### **6.3. Coherence – administrative sources**

The indicator for this survey is not applicable.

## **7. Cost and burden**

### **7.1. Cost**

Data collection is based on an online survey and, accordingly, costs are minimal.

### **7.2. Burden**

The burden on reporting units has been greatly reduced by switching to an online survey and filling in an electronic form in which the main features (name of the reporting unit, product codes) are previously filled in.