Abstract

1 General information on the statistics

- Name of the statistics: index of import prices
- Survey date: monthly average
- Periodicity and period for which a time series is available without any break: monthly from January 2005
- Survey population and principle of allocating the survey units: representative survey among enterprises importing goods
- Legal bases: Price Statistics Law, EU regulation concerning short-term statistics

2 Purpose and goals of the statistics

- Survey content: import prices excl. taxes, customs duties, etc., price-determining variables
- Purpose of the statistics: calculation of indices of import prices as indicators of inflationary trends, deflation, terms of trade
- Major users of the statistics: European Commission, European Central Bank, federal ministries, business associations, enterprises, statistics (national accounts)

3 Survey methodology

- Type of data collection: written or online enquiry with obligation to provide information
- Sampling procedure: multi-stage purposive sampling of 4,800 price representatives among approx. 3,000 enterprises
- Seasonal adjustment procedure: no seasonal adjustment of original series, simultaneous publication of a seasonally adjusted overall index
- Data collection tools and reporting channel: by post, using a questionnaire (annexed to this document) or through a web-based questionnaire via secure internet-connection between enterprise and Federal Statistical Office

4 Accuracy

- Overall qualitative assessment of accuracy: index value with one decimal place, results are valid when published for the first time
- Sampling errors: no random sample, hence no quantification possible
- Non-sampling errors: In the context of plausibility checks, incorrect or inexact data are edited. Extrapolations are made for non-response, using suitable indicators.

5 Timeliness and punctuality

- Timeliness of preliminary results: no calculation of preliminary results
- Timeliness of final results: The results refer to the average of the reference month. They are published around the 26th day of the subsequent month.
- Punctuality: All release dates are met.

6 Comparability over time and space

- Qualitative assessment of comparability: is guaranteed within the same base period (5 years as a rule), but is limited over several base periods. Spatial comparability is guaranteed starting in 1991 with results for Germany as a whole, before 1991 exclusively for the former territory of the Federal Republic.
- Changes affecting comparability over time: changeover to new weighting patterns

7 Connection with other surveys

- Input for other statistics: deflation of other aggregates of economic statistics, especially in national accounts
- Differences regarding other comparable statistics or results: component of the German system of price statistics; the source statistics is foreign trade statistics.

8 Other information sources

- Publication channels, order address: www.destatis.de > Publikationen
data > Genesis-Online
- Contact information: www.destatis.de/contact
1 General information on the statistics

1.1 Name of the statistics (according to EVAS)
Index of import prices, EVAS No. 61411

1.2 Reference period
The reference period is the reference month.

1.3 Survey date
Average of the reference month.

1.4 Periodicity and period for which a time series is available without break
Monthly from January 2005.

1.5 Regional coverage
Territory of the Federal Republic of Germany.

1.6 Survey population, principle of allocating the survey units
The statistics of import prices is based on a representative survey. The survey population includes all enterprises whose seat is in Germany and which import goods or electricity (Divisions 01 to 38 of the Product Classification for Production Statistics, 2009 edition) from other countries.

1.7 Survey units
The survey unit is the legally independent enterprise.

1.8 Legal bases

1.8.1 EU law

1.8.2 Federal law

1.8.3 Land law
No Land law as a legal basis.

1.8.4 Other bases
No other legal basis.

1.9 Confidentiality and data protection
The individual data collected are generally kept secret according to Article 16 of the Federal Statistics Law. Only in a small number of exceptional cases explicitly regulated by law may individual data be passed on. The names and addresses of the respondents are never passed on to third parties. Pursuant to Article 16, para. 6 of the Federal Statistics Law, individual data may be passed on to institutions of higher education or other institutions entrusted with independent scientific research for the purpose of carrying out scientific projects, if such data have been anonymised in a way that identifying the relevant respondents or parties concerned is possible only with unreasonable efforts in terms of time, cost and manpower. Persons receiving individual data are also obliged to adhere to the principle of confidentiality.

2 Purpose and goals of the statistics

2.1 Survey content
What is collected is purchase prices (preferably in euros), which should refer to the terms of trade “cost, insurance, freight” (CIF), where possible. The prices do not include any public charges or subsidies (customs duties, monetary compensatory amounts, import turnover tax, excise duties). The price data should refer to representative contracts concluded in the reference month. If no contracts are concluded, the prices should be reported which – according to good knowledge of the market – could have been achieved in the reference period. The survey programme also includes the detailed product description and other variables influencing the price (e.g. type of forwarding, delivery terms, terms of payment, discounts/surcharges, type of packaging, quantitative unit, amount purchased/delivered, country of origin).
addition, the currency of the reported price is collected. If the price is reported in a foreign currency, it will be converted into euros for index calculation, using the average exchange rate determined by the European Central Bank for the reference month.

2.2 Purpose of the statistics
The collected import prices are used to calculate import price indices which show the development of import prices for commodities imported from foreign countries. Import price indices are an important tool to measure inflation that is 'imported' from foreign markets and hence also to evaluate the effects of foreign prices on domestic inflation processes. Subindices of import prices are not only used for general (short-term) economic analysis but also serve as an orientation for many market participants when monitoring markets or shaping their pricing policy. Also, import price indices are needed to deflate other aggregates of economic statistics, especially in national accounts. Ratios of export price indices and relevant import price indices (terms of trade) are used to analyse the real terms of trade of the German economy with foreign countries. They show the extent to which, as a result of the development of export and import prices, the proceeds from delivering goods to other countries allowed purchasing goods from other countries to a higher or lower value than in the base period.

2.3 Major users of the statistics
Major users of import price statistics at the international level are the European Commission and the European Central Bank, and, at the national level, various federal ministries, in particular the Federal Ministries of Economics and of Finance, and the German Bundesbank. Other users of import price statistics are specialised associations and interest groups of various economic branches. Results of import price statistics are sometimes used for stable-value clauses and are applied by the relevant contracting parties. Also, import price indices are used for calculations performed in national accounts of the Federation and the Länder.

2.4 User involvement
Major users are involved especially when the import price statistics is rebased to a new base year (generally every 5 years). In this context, they participate in updating the major bases of calculation. This includes in particular the basket of goods (selection of goods for which prices are to be collected regularly). Also, selected users are involved in designing the publication programme. In the context of monthly index calculations, there are manifold contacts with users, especially as regards analysing the causes of current price trends.

3 Survey methodology

3.1 Type of data collection
The data are collected in a written manner. The survey involves the obligation to provide information. Respondents are the proprietors of directors of the enterprises. For selected items, secondary sources (stock market listings, market reports, etc.) are evaluated.

3.2 Sampling procedure
Purposive sampling.

3.2.1 Sampling design
The population of import price statistics theoretically consists of all cases of goods (as defined by the 2009 edition of the national Product Classification for Production Statistics, Divisions 05 to 35 and 38 as well as agricultural products) purchased by domestic enterprises in foreign countries. The sample is drawn in a multi-stage procedure using the purposive sampling method applied in all price statistics. In the first stage, representative import products are grouped by imports from euro countries and non-euro countries to form a basket of goods on the basis of evaluations of foreign trade statistics at the most detailed level of breakdown (national Commodity Classification for Foreign Trade Statistics, 8-digit items, converted to the Product Classification for Production Statistics). In the second stage, enterprises are selected that are to report prices on a monthly basis. The selection criterion is the level of the import value for the relevant basket item. In the third stage, the selected enterprises use given criteria to define representative cases of purchase for the relevant basket items, for which prices are to be reported.

3.2.2 Sampling size, sampling fraction and sampling unit
The basket of goods of import price statistics currently comprises 1,029 items for imports from euro countries and 1,137 items for imports from non-euro countries, for which prices of a total of some 4,800 representatively selected cases of purchase (price representatives) are collected every month from about 3,000 enterprises.

3.2.3 Sample stratification
With the above-described method of purposive sampling (cf. 3.2), the basic material is not explicitly stratified. Only for the selection of enterprises, elements of stratification by the import value for the individual basket items are included in the examination.

3.2.4 Expansion
No expansion is performed. The result is a weighted average of the price developments observed for the types of goods covered.
3.3 Seasonal adjustment method
The original series of the index of import prices are not seasonally adjusted. However, the overall index is also published in a seasonally adjusted form. The Federal Statistical Office applies the Berlin Method "BV4.1".

3.4 Data collection tools and reporting channel
Data collection is done centrally by the Federal Statistical Office, either in writing by means of "shuttle" lists or through the internet (IDEV procedure).

3.5 Burden on the respondents
The composition of the sample of reporting units is reviewed at regular intervals.

3.6 Documentation of the questionnaire
The questionnaire used to compile statistics of import prices is available on request (only in German).

4 Accuracy

4.1 Overall qualitative assessment of accuracy
Import price indices are calculated as index numbers with one decimal place. The data are final for the reference months. Rebasement to a more recent base year leads to revision-related differences because new calculation bases (basket of goods, weighting pattern, sample of reporting units) are used.

4.2 Sampling errors
Sampling errors cannot be quantified because the sample is not based on random sampling. However, the method of purposive sampling used in drawing the sample allows to achieve a high degree of representativity. In any case it is ensured that the leading companies in any market segment are included in the sample.

4.2.1 Standard error
None.

4.2.2 Biases due to the data expansion procedure
None, because an expansion procedure is not applied.

4.3 Non-sampling errors

4.3.1 Errors due to coverage
None.

4.3.2 Unit non-response
In case of non-response (e.g. because of shut-down or restructuring of the enterprise, changes in the range of goods, etc.), the prices are extrapolated with suitable updating indicators (e.g. average price trend of the relevant item or of a higher aggregate). At the same time, it is attempted to rapidly obtain other reporting units for replacement.

4.3.3 Item non-response
In import price statistics, this group of errors includes especially incorrect or inaccurate data of the responding enterprises and non-response. Incorrect or inaccurate data are generally corrected through data editing and direct queries with the enterprises during the reference month. The plausibility checks are mainly aimed at checking the relevant price development rather than the price level.

4.3.4 Imputation methods
The prices of goods which are temporarily not on offer are carried forward using suitable methods.

4.3.5 More detailed analyses of the systematic error
More detailed analyses of the systematic error are not made.

4.4 Continuous revisions
Index revisions are carried out at five-year-intervals.

4.4.1 Extent of revision
In the context of changing over to a new base year, the weighting pattern is revised, which entails revisions of earlier results.

4.4.2 Reasons for revision
Adjustment to changing market structures. Stipulations in EU regulations.

4.5 Extraordinary sources of error
Extraordinary sources of error include unexpected circumstances which affect considerably the use of preliminary or final results and therefore have to be pointed out in a special form. Such phenomena comprise, for instance, particularly
important reports which are inaccurate or delayed and (natural) phenomena which lead to a strong modification of the
survey object directly after the survey so that the informative value of the statistics is deteriorated. Such circumstances
were not observed in this case.

5 Timeliness and punctuality

5.1 Timeliness of preliminary results
No calculation or publication of preliminary results.

5.2 Timeliness of final results
Where possible, the collected prices refer to purchases performed in the middle of the month. Where this is not possible,
the comparable purchase performed most closely to that date is applied. If several contracts of the same type are
concluded within a month, the prices refer to the average of the reference month. Federal results are published around the
26th day of the subsequent month.

5.3 Punctuality
All publication deadlines are met.

6 Comparability over time and space

6.1 Qualitative assessment of comparability
The Laspeyres concept applied in import price statistics is based on the principle of all calculation bases being constant
(basket of goods, sample of reporting units, sample of price representatives, weighting pattern), which in theory ensures
the comparability over time of the calculated indices within a base period. In practice, however, that principle cannot
entirely be implemented. Especially for the composition of the sample of reporting units, changes are required because of
permanent non-responses, which impairs comparability in the narrow sense. Adjustments in the description of price
representatives that become necessary over time are assessed by means of suitable quality adjustment methods. This
means that price changes resulting from quality changes are eliminated from the price development. Quality adjustment
methods frequently applied are the matched-model approach, price comparison between the old and new quality in the
overlap period, direct chain-linking, and assessment of quality changes by experts. For EDP goods, mathematical-
statistical methods (regression analysis) are applied, too.
The calculation bases mentioned are kept constant over a base period, which is generally 5 years. Price indices for
different base periods are often chain-linked to form long-term index series, although – strictly speaking – they are not
comparable. The price trend shown in this way includes “non-genuine price changes”, i.e. price changes resulting e.g.
from different weighting structures in the base periods. A particular problem regarding comparability between different
base periods is changes in the underlying classifications.
Regional comparability of the import price indices calculated for Germany as a whole is ensured for data from 1991. For
earlier periods, results are available only for the former territory of the Federal Republic of Germany.
However, for the main goals of import price statistics, that is measuring short-term to medium-term inflationary trends, the
above-described comparability problems are irrelevant.

6.2 Changes affecting comparability over time
Introduction of new weighting patterns.

7 Connection with other surveys

7.1 Input for other statistics
Import price indices are needed to deflate other aggregates of economic statistics, especially in national accounts.

7.2 Differences regarding other comparable statistics or results
Import price statistics is part of the system of German price statistics, which shows the price development at all major
stages in the economic process. At the production stage, producer price indices of agricultural, forestry and industrial
products as well as construction price indices are calculated. Producer price indices for services are currently being set up.
Indices of purchase prices of the means of agricultural production are also part of the system. At the distribution stage, the
system of price statistics contains indices of wholesale prices and of retail prices. The stage of the final consumption of
households is covered by consumer price indices. The price development of exported goods is represented by export price
indices. In import price statistics, other statistical surveys are used as data sources for setting up the major bases of
calculation. Those statistics include in particular the annual processing of foreign trade statistics.
8 Other information sources

8.1 Publication channels, order address
The results of import price statistics are offered in an electronic form only.

At www.destatis.de › Publikationen › Thematische Veröffentlichungen › Preise the following publications can be obtained free of charge either in an Excel or a PDF file:

_Fachserie 17, Reihe 8.1_: The publication contains price indices for a total of 41 items of the product classification of the food industry and of trade and industry, 886 selected items of the Product Classification for Production Statistics (GP) and 74 items of the Standard International Trade Classification (SITC) (current month, previous month, same month of the previous year and annual average of the previous year) as well as rates of change on the previous year and on the same month of the previous year in percent. Weighting factors and linking factors are also shown. In addition, long time series are contained for selected indices.

Long time series: Import price indices for 886 selected items of the GP can be obtained free of charge as long time series (from January 2005, where possible also from January 1995, possibly only from January 2000). In addition, summary tables of the indices of import and export prices are offered as long time series.

Data on the energy price development: The cross-section publication includes price indices for the various types of energy in the form of long time series. It shows not only import price indices but also export, producer and consumer price indices.

Through the database system GENESIS-Online (www.destatis.de › Zahlen & Fakten › Datenbanken › Genesis-Online › 61 › 614 › 61411 › Tabellen), detailed results of import price statistics can directly be loaded in various file formats (.xls, .html and .csv).

8.2 Contact information
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fax: +49 (0) 611 / 72-40 00
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8.3 Further publications
Papers on the index of import prices statistics are contained in the cross-section publication _Wirtschaft und Statistik_ (www.destatis.de › Publikationen › Wirtschaft und Statistik), e.g.:


Further information on the index of import prices can be found at www.destatis.de › Facts & Figures › Prices.