***8 PRICES***

***Methodological notes***

*The price indices are calculated as* ***sample indices****, i.e. the calculation thereof is based on prices of* ***selected representatives*** *(of goods and services) monitored in a****sample of reporting units****. The individual price indices for the representatives are aggregated into aggregate indices for groups of representatives and then further into an aggregate index for the whole set of all the representatives. The aggregation is carried out by means of a weighted arithmetic mean of individual indices. Structural indicators of value (production, sales, turnover, purchases, household expenditure, etc.) of respective representatives or a group of representatives are used as constant weights in the calculation. These structural indicators are determined from data of the base (“zero”) reference period (e.g. years 2015, 2020, 2021).*

*Price indices (monthly and quarterly ones) are calculated from prices measured in the reference period (around the middle of a month for monthly indices, in the 2nd month of a quarter for quarterly indices). Annual indices are calculated as an arithmetic mean of the indices (in the case of agricultural producer prices as a weighted average) for individual months/quarters of the year, related to a selected price base, which is considered to be a constant base for a certain period of time.*

*The individual producer price indices use the national version called the Classification of Products (CZ-CPA) of the Statistical Classification of Products by Activity in the European Union, Version 2.1 (CPA Ver. 2.1), which is linked to the national version Classification of Economic Activities (CZ-NACE) of the Statistical Classification of Economic Activities in the European Community, Rev. 2 (NACE Rev. 2). The national version of the international Classification of Types of Constructions CZ-CC is used for price indices of construction production. Consumer price indices are derived on the basis of the European Classification of Individual Consumption by Purpose (ECOICOP) – see* [**www.ec.europa.eu/eurostat/web/metadata/classifications**](http://www.ec.europa.eu/eurostat/web/metadata/classifications)*. Export and import price indices are constructed according to the Classification of Products by Activity in its national version (CZ-CPA); further, they are recalculated to comply with the breakdown of main groups of the Standard International Trade Classification, Rev. 4 (SITC, Rev. 4).*

***Notes on Tables***

***Tab. 8.1 Annual averages of producer and consumer price indices***

***Agricultural producer price index***

*Agricultural producer prices are measured monthly by means of the statistical questionnaire on agricultural producer prices at approximately 500 selected agricultural producers (cooperatives, private farms, and state organisations). Prices are adjusted to be free of VAT. The survey measures trade contractual prices (excluding own consumption) for the domestic market as well as foreign markets, excluding freight costs related to the transport to the purchaser.*

*In the course of 2022, the agricultural producer price index underwent a standard comprehensive revision. Since January 2023, the agricultural producer price indices have been calculated based on weighting schemes derived from the average revenues in 2019, 2020, and 2021. The price base applied is the average of the year 2020.*

*Weights of seasonal and non-seasonal agricultural commodities differ in various months of the year and therefore the index calculation employed a two-dimensional weighting scheme as a matrix. One dimension is for vertical aggregation from the level of representatives upward to the highest level. The second dimension is for twelve months of the year. Then the sum of weights of the highest aggregation for each month of the year is equal to the nominal sum of 1 000. Variable monthly weights are used for the calculation of agricultural producer price indices.*

***Agricultural input price index***

*The agricultural input price index (AIPI) for goods and services is calculated in compliance with the Eurostat methodology. This method of calculation is based on a combined price index, comprising of price indices of “Goods and services consumed in agriculture” and of “Goods and services contributing to agricultural investments”.*

*The price base applied is the average of the year 2020; the weighting scheme corresponds to the structure of agricultural costs in the same year.*

***Forestry (roundwood) price index*** *–* ***only forest owners***

*The roundwood price index, can be also found as the raw timber price index, is calculated quarterly from average strike (contractual) prices, excluding VAT, reached in individual quarters of the surveyed year. Reported strike prices are for deliveries of roundwood (raw timber) for the domestic market (excluding own consumption and exports).*

*In 2011, within an occasional revision of the forestry (roundwood) price index – owners, a weighted average for the calculation of average prices was introduced for four most important assortments of roundwood (logs, quality III A/B – spruce; logs, quality III C – spruce; logs, quality III D – spruce; timber, quality V – timber for the pulp production – spruce). Average prices of other sorts are still calculated as a simple arithmetic mean. The index is calculated of 16 coniferous sorts and 11 non-coniferous sorts.*

*In the course of the year 2016, a standard comprehensive revision of the calculation methodology of roundwood price indices was carried out. The index base and price base applied is the 4th quarter of 2016. Within the revision, a new weighting scheme was set for the assortments of roundwood according to the respondents-reported overview of the annual revenues on the separate questionnaires for 2013, 2014, and 2015. Price indices according to the new structure have been published since the 1st quarter of 2017. The structure of published quarterly indices has been narrowed since 2020.*

***Industrial producer price index***

*Industrial producer prices are surveyed monthly based on the data from selected organisations (approximately 1 200) on selected representatives (approximately 5 000). Reported prices are prices agreed upon between a supplier and a customer residing in Czechia (excluding VAT, excise duty, costs of transport to the customer, and the transport-related costs) and invoiced for rather important business deals. The prices are measured between the 1st and the 20thcalendar day of the reference month.*

*The industrial producer price index is calculated from reported prices applying constant weights. The index measures the average price development of all industrial products manufactured and sold on the domestic market in Czechia. Industrial products are products manufactured by activities classified under the CZ-NACE sections B to E.*

*In 2022, a standard comprehensive revision of industrial producer price indices was carried out. From January 2023, on the basis thereof, price indices have been calculated applying weights for the year 2021. The weights were set based on the structure of domestic sales (revenues) of industrial producers for the year 2021.*

*Price indices calculated with the base of December 2015 = 100 have been replaced by indices with a new price base of December 2021 = 100. The indices calculated in this way are chained from the four-digit CZ-CPA level (and above) of the weighting scheme to indices based on the year 2015 average = 100, by which the continuation of the existing time series is ensured. From the time series with a base of average of 2015 = 100, a time series with a base of average of 2021 = 100 is calculated. Calculation of time series to bases of average of 2005 = 100 and 2010 average = 100 was discontinued in December 2022.*

*Information on the revision of the industrial producer price indices can be found on the website of the Czech Statistical Office at:* [**www.csu.gov.cz/revisions\_producer\_prices**](http://www.csu.gov.cz/revisions_producer_prices).

***Price index of constructions***

*Price indices of constructions are calculated quarterly from price indices of construction works calculated from prices reported in statistical questionnaires (reports).*

*In 2022, an occasional revision of price indices of construction production was carried out. Since 2023, price indices have been published that are calculated on the basis of index schemes, which are based on the average production structure of the construction production from 2017 to 2021. The year 2015 is the base period of the time series published and the average for 2015 is the base price level. Because of the applied chaining method, published time series of price indices cannot be aggregated by means of weights anymore.*

*The quarterly statistical questionnaire (“*Ceny Stav 1-04”*) includes 136 price representatives. The network of reporting units is established by purposive sampling of about 600 respondents of all size classes and different legal forms, plus some enterprises specialising in assembly of air conditioning, lifts, and steel structures (CZ-NACE divisions 25, 28, 33, 41, 42, 43, and 80).*

*The quarterly reported prices (implemented in the second month of the given quarter in the territory of Czechia) are prices agreed between the supplier and the customer for a unit of construction works carried out by own staff of the reporting unit, working owners of enterprises, persons working under various contracts for work (an agreement on work performance and an agreement on work activity), and collaborating self-employed persons without employees. In addition to material necessary for the work being performed, they include all other costs needed to perform the activities under survey, excluding costs of site equipment and VAT.*

***Construction cost index***

*The construction cost index is calculated quarterly and falls into the group of secondary statistics, which do not have their own questionnaire-based survey. The quarterly calculation reflects the price development in direct and indirect costs of construction works. The direct costs include, first of all, prices of materials, machinery, and energies, development of which is taken from the industrial producer price statistics. The survey of wages and salaries in the construction production and price statistics is the source of information on wage expenses (labour costs). The direct costs also include transport costs, development of which is monitored by the market services price statistics. The indirect costs are production and administration overhead costs. Their development is derived from price indicators and production indicators in construction.*

***Services producer price index***

*The services producer price index (SPPI) is a business-cycle indicator measuring the change in trading prices of providers of a number of services that are supplied for intermediate consumption. It serves for monitoring of price movements and for measuring of inflation pressure on the services market. The index objective is to measure the average monthly changes in prices of selected market services dedicated mostly to the business sphere on the domestic market. The prices monitored are the contractual prices or catalogue prices adjusted to be free of VAT.*

*The aggregate services producer price index comprises partial price indices of selected services by the Classification of Products by Activity (CZ-CPA) in the following divisions 49, 50, 52, 53, 58, 59, 60, 61, 62, 63, 65, 68, 69, 70, 71, 73, 74, 77, 78, 80, 81, 82 since 2024. They are price indices of providers of the following market services: land transport services and transport services via pipelines, water transport services, warehousing and support services for transportation, postal and courier services, publishing services, motion picture, video and television programme production services, sound recording and music publishing, programming and broadcasting services, telecommunications services, computer programming, consultancy and related services, information services, insurance, reinsurance and pension funding services, except compulsory social security, real estate services, legal and accounting services, services of head offices; management consulting services, architectural and engineering services; technical testing and analysis services, advertising and market research services, other professional, scientific, and technical services, rental and leasing services, employment services, security and investigation services, services to buildings and landscape, office administrative, office support and other business support services.*

*From 2024 onwards, the division 64 financial services, except insurance and pension funding is no longer in the survey.*

*Since January 2018, base indices of market services prices have been calculated with a new index base, i.e. the average for 2015 = 100.*

*After a revision in the year 2023, indices are calculated on new weights from the year 2021 (the index base remains the same, i.e. the average for 2015 = 100).*

*The indices published so far have not been revised.*

***Export and import price indices***

*These indices have been compiled for Czechia since 1993. Weighting schemes for exports and imports now include over 5 000 products, raw materials, and materials – price representatives – in total; they contribute in an important way to the value of trade in rather significant groups of commodities traded in international trade, both exports and imports.*

*Average prices for 2015 are the price base of the indices. In 2017, a standard revision of the calculation of international trade price indices was carried out.* *Since the reference period of January 2018, export and import price indices have been calculated using a new weighting scheme based upon international trade in goods (change of ownership) structure of 2015 and with the price base of the average of 2015 = 100.*

*The existing time series of the indices based on the average for 2005 = 100 was recalculated to the price base of the average of 2015 = 100. Since January 2018, the newly calculated indices have been chained to the aforementioned time series of the indices in order to provide for continuation of the time series. The chaining period is December 2017.*

*Price representatives were selected by domestic businesses (economic entities), which significantly participate in international trade in goods (change of ownership) of Czechia; they were both production enterprises and also businesses only engaged in international trade activities, namely about 600 economic entities for exports and also approximately 600 economic entities for imports. For exports, the prices measured are FOB prices at borders of Czechia and for imports, these are the prices invoiced by external suppliers. If a price representative is traded in several countries, the reporting units give average prices as a weighted arithmetic mean of prices obtained in significant commercial transactions (weighted by the quantity of products in physical units). The prices are converted into CZK by means of the relevant average monthly exchange rate of the Czech National Bank and are measured free of customs duty, VAT, and excise duty.*

***Consumer price index******of goods and services***

*Trends in consumer prices are measured on consumer baskets based on a set of selected kinds of goods and services paid for by the population. Consumer baskets are described in detail in the document “Consumer price indices – 2022 revision,” which is available on the website of the Czech Statistical Office at:* [**www.csu.gov.cz/indexy\_spotrebitelskych\_cen\_revize**](http://www.csu.gov.cz/indexy_spotrebitelskych_cen_revize) *(Czech only).*

*For more detailed information on the consumer price indices methodology see:* [**Inflation, Inflation Rate - Methodology**](https://www.czso.cz/csu/czso/what_is_it_inflation_resp_inflation_rate)*.*

*The consumer basket includes about 450 specific products and services (representatives) according to the European Classification of Individual Consumption by Purpose (ECOICOP) based on the international Classification of Individual Consumption by Purpose (COICOP). The base reference period weights for the calculation of group and aggregate indices are derived from the structure of household expenditure according to the results of national accounts statistics in 2022. Weights for detailed price representatives have been updated according to data of household budget statistics, to which other available sources and surveys were added.*

*The average prices from December 2023 are prices of the base period. Since 2017, the year 2015 has been the base for the price index.*

*Consumer prices are measured once a month by employees of the Czech Statistical Office in a network of selected reporting stores and other outlets (about 8 500) in selected Districts (LAU 1) of Czechia and in the Capital City of Prague.*

*At selected representatives from divisions of the ECOICOP classification (01 Food and non-alcoholic beverages, 02 Alcoholic beverages, tobacco and narcotics, 05 Furnishings, household equipment and routine household maintenance, 06 Health, 09 Recreation and culture, and 12 Miscellaneous goods and services), prices from local price survey have been fully or partially replaced by prices from scanner data (data from cash registers of retail chains). It applies to nationwide unit prices of selected products at monitored retail chains.*

***Tab. 8.2 Price indices of selected types of real estate***

*Data in this table are based on a new publication “Real estate prices” (Czech only), which follows from an already cancelled publication “Prices of observed types of real estate,” which was published for the last time at the end of 2020 with data for the years 2017–2019.*

*From 2000 to 2020, the CZSO published “Prices of observed types of real estate”. The data were based exclusively on data acquired by financial authorities and contained in tax returns on prices found out when assessing real estate and on prices agreed for those real estates in case of sale. The acquisition was backed by the Act No 151/1997 Sb, on Valuation of Property. As at 26 September 2020, however, the tax on real estate acquisition was abolished, namely with retroactive effect for the cases, in which the title registration was made in December 2019 or later. As a result of that, the existing data source absolutely ceased to exist and therefore the publication ended with the last reference year of 2019.*

*In order to ensure at least partial continuity of original statistics, the CZSO tried to use as an alternative source data from the Cadastre of Real Estate that are available at the Czech Office for Surveying, Mapping and Cadastre (*ČÚZK*). Primary unprocessed data are virtually exhaustive; however, a lot of price-forming information is missing that was put in the existing data by real estate assessors when individually assessing characteristics of a given real estate. Moreover, for the purposes of further processing, it is necessary to add the following to the data: related data from the Register of Census Districts and Buildings (*RSO*) kept by the CZSO and from the Registry of Territorial Identification, Addresses and Real Estate (*RÚIAN*) maintained by the* ČÚZK*. Since the* RSO *and the original source (the Cadastre of Real Estate) are somewhat inconsistent, it is not possible to interlink all data and the original source thus loses, to some extent, the feature of an exhaustive set.*

*It is the aim of the system being created in the new publication “Real estate prices” (Czech only) to provide information on the distribution of the price level of dwellings (flats) and family houses as well as development of this distribution in time. However, similarly as for the previous publication, it is not an objective of the new publication to create detailed price maps. Unlike the previous source, the CZSO now does not have reliable sources to create price statistics of building plots and multi-dwelling buildings.*

*Price indices, which cover the 2016–2023* *period are calculated using comparable data of the new source. In a period, in which the price index overlaps (as for time) between the original publication and the new one it is more appropriate to use this new source.*

***Tab. 8.3 Selected industrial producer price indices***

*The table presents selected groups as defined by the third level of the CZ-CPA; in some cases, divisions defined by the second level of the CZ-CPA are shown.*

***Tab. 8.4 Selected price indices for market services***

*Selected items of the third level of the CZ-CPA (groups) are given here, and in certain cases items in even more detailed classification (classes, categories, and sub-categories) are shown.*

***Tab. 8.5 Prices of selected agricultural products***

*The current system of statistical surveying has been in use since 1991. The prices are measured in the network of selected agricultural producers. They are mostly nominal prices of selected agricultural products by main (specified) quality grade. Prices of vegetables and fruit refer to top quality only. The reported price is a simple arithmetic mean of prices of individual significant contracts, which were implemented around the middle of the reference month.*

***Tab. 8.6 Roundwood prices of selected assortments (only for forest owners)***

*Average prices of selected roundwood products (assortments) derived from figures reported in quarterly price surveys are shown. Until the end of 2010, the prices were calculated as a simple arithmetic mean of prices of individual business cases (transactions) implemented in the whole period of the reference quarter.*

*In 2011, a weighting average was introduced for logs, quality III A/B – spruce and timber, quality V – spruce. Average prices of other assortments mentioned are still calculated as a simple arithmetic mean. The time series published before 2011 are not fully comparable.*

***Tab. 8.7 Consumer prices of selected types of goods and services***

*Consumer prices of selected price representatives are average consumer prices for Czechia in December of each year, which are, in nature, average values of individual varieties of the representative concerned. Their arrangement in the table is based on the consumer basket structure valid since 2024.*

***Tab. 8.8 Consumer price indices for goods and services***

*The group indices of consumer prices are arranged to comply with the level 3 of the ECOICOP classification.*

***Tab. 8.9 Consumer price indices of goods and services for the total population of households and for households of pensioners in 2024***

*The consumer price indices refer to the 12 divisions of the ECOICOP classification for the total population of households and for households of pensioners.*

***Tab. 8.10 Harmonised indices of consumer prices***

*Harmonised indices of consumer prices (HICPs) were formed in the EU in response to the need to establish comparable indices of consumer prices so that inflation trends in the EU Member States can be measured to be used as a criterion for the accession to the European Monetary Union.*

*There are certain differences between the structure of the consumer basket for the national index of consumer prices of Czechia and the structure of the consumer basket for the HICP. The HICP weights include revenues from purchases executed by foreigners in Czechia, but do not include the imputed rental, on the contrary to the national index of consumer prices, which does not include revenues from purchases by foreigners yet includes the imputed rental.*

*The HICP uses chain weights, which are modified every year in December. National accounts data (final monetary consumption of households) are the source for updates. The average of the year 2015 is used as the price index base.*

*Indices refer to the 12 divisions of the ECOICOP classification.*

*\* \* \**

*Further information can be found on the website of the Czech Statistical Office at:*

– [www.csu.gov.cz/prices-inflation](http://www.csu.gov.cz/prices-inflation)