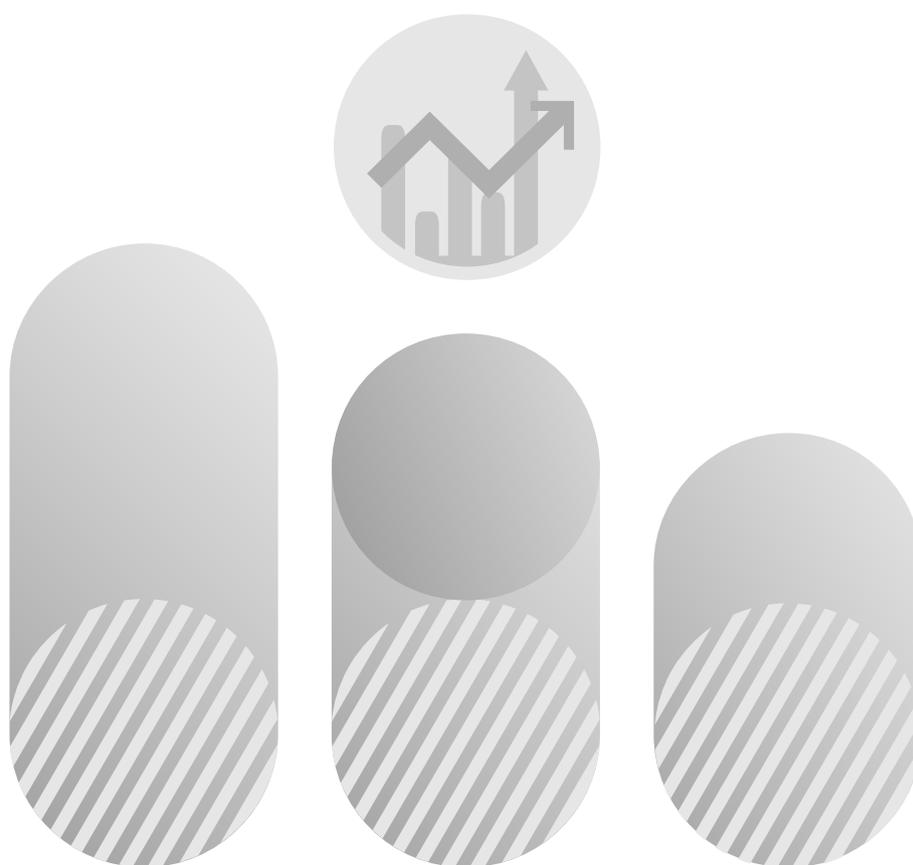




Warsaw 2024

# Production of major industrial products in December 2024





## **Production of major industrial products in December 2024**

**Content-related works**

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## Preface

This publication contains data on the production of major products or assortment groups representing particular divisions of the Polish Classification of Goods and Services (PKWiU 2015) for Section B "Products of Mining and Quarrying" and section C "Manufacturing Products" obtained in the monthly survey.

The aim of the publication is to present changes in the production of industrial products based on data expressed in physical units of measure in particular months of the last two years. Selection of presented industrial products reflects the needs of a wide range of users, including among others, government administration, producers' associations and individual producers and scientific research institutions.

Presenting this publication we hope that the data will be a valuable source of information on production of the most significant products in Poland. At the same time, we will appreciate any comments and suggestions regarding the scope of data contained in this publication, which will allow for its better adaptation to the needs of users.

Taking the opportunity, we would like to thank all the respondents participating in the monthly survey on the production of industrial products, carried out on the P-02 form "Report on production and inventory of industrial products". Your commitment contributed to compiling this publication.

Director  
of Enterprises Department

/-/ Katarzyna Walkowska

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## Symbols

Symbol	Description
(-)	magnitude zero
(0)	magnitude not zero, but less than 0.5 of a unit
(.)	data not available, classified data (statistical confidentiality) or providing data impossible or purposeless
(*)	revised data
of which	indicates that not all elements of the sum are given

## Main abbreviations

Symbol	Description
Cu	copper
dam <sup>3</sup>	cubic decametre
GWh	gigawatt-hour
hm <sup>3</sup>	cubic hectometre
km	kilometer
MVA	megavolt-ampere
MW	megawatt
PLN	Polish zloty
thousand hectolitre 10%	thousand hectolitre of converted volume of product with 10% component content

## Introduction

The survey of the production of industrial products in physical units of measure complements the survey of sold production of industry, and allows for monthly assessment of trends of domestic production. The publication contains data on manufactured production in Poland for 462 products or assortment groups representing major fields of industrial production.

The data were prepared on the basis of a monthly product survey carried out on the P-02 form "Report on production and inventory of industrial products". The survey covers enterprises manufacturing industrial products regardless of their type of business activity, with number of persons employed 50 persons and more.

Products or assortment groups are presented according to the PRODPOL nomenclature based on the Polish Classification of Goods and Services (PKWiU 2015) and the European PRODCOM List. In some cases, products are presented according to additional groupings, constituting the sum of selected items from the PRODPOL nomenclature.

Table 1 presents the data on manufactured production of products in December 2024 along with production dynamics indicators in relation to the previous month and to corresponding period of the previous year.

Table 2 presents the data on manufactured production of products retrospectively, covering the months of the current and previous year.

Table 3 presents the data on sold production of products in December 2024 along with production dynamics indicators in relation to the previous month and to corresponding period of the previous year.

Table 4 presents the data on sold production of products retrospectively, covering the months of the current and previous year.

Indices shown in table 1 and table 3 take account of corrections made for previous periods.

The sum of data from particular months in table 2 and table 4 does not always have to be consistent with the cumulative data (i.e. from the beginning of the year to the end of the reporting month), because minor adjustments of up to 3% at country level for a given product are taken into account only in cumulative data. Data corrected in relation to the data presented in the previous month are marked with an asterisk.

The reasons of differences that may occur between the amount of manufactured production and sold production are presented in the Methodological notes.

At the end of the publication has been added list of product aggregates presented in the publication, their descriptions and component PRODPOL headings.

## Executive summary

In December 2024, the product survey carried out on the P-02 form Report on production and inventory of industrial products covered more than 7,000 statistical units with 50 or more persons employed that manufactured products specified in the PRODPOL nomenclature for monthly surveys in 2024.

The publication presents data on manufactured production for 460 products and assortment groups and on sold production for 308 products and assortment groups. In December 2024, manufactured production of 226 items and sold production of 173 items was higher than in December 2023. Decrease was noted on manufactured production for 223 items and on sold production for 132 items. Data on production of homogenized composite food preparations for infant food or dietetic purposes, woven fabrics of synthetic filament yarns and artificial filament yarn, hosiery and tubular metal needles, for medical, surgical, dental or veterinary sciences is not published as it was not possible to obtain production data from some economic entities.

### MANUFACTURED PRODUCTION

**In the period January–December 2024** compared with the corresponding period of the previous year, manufactured production increased for 243 products. In the division *Food products* increased production of e.g. dried fruit (excluding grapes); mixtures of dried nuts and/or dried fruits (by 49.8%), buckwheat groats and meal (by 31.3%), millet groats (by 25.4%), barley groats and meal (by 22.9%), prepared pet foods (by 21.4%), sugar (by 17.3%), canned pig meat (by 16.0%). In the divisions *Wearing apparel* and *Leather and related products* production increased of e.g. men's or boys' shirts, not knitted (by 89.3%), leather of bovine animals (by 50.7%), footwear (including waterproof footwear), incorporating a protective metal toecap, with outer soles and uppers of rubber or of plastics (by 27.3%), men's or boys' jackets and blazers, not knitted (by 14.1%). In the divisions *Wood and products of wood* and *Paper and paper products* production increased of e.g. assembled parquet panels of wood for mosaic floors (by 70.6%), other paper and paperboard for graphic purposes (by 13.2%), sacks and bags of paper (by 13.1%), doors of wood (by 11.1%), soda or sulphate wood pulp (by 10.8%), wooden flooring materials (by 10.5%), flat pallets and pallet collars of wood (by 9.8%). In the division *Chemical products* production increased of e.g. pesticides and agrochemicals used in agriculture and forestry (by 54.6%), polyvinyl chloride not mixed with any other substances (by 35.6%), anhydrous ethyl alcohol (by 31.7%), denatured ethyl alcohol with a vol. strength of 60% and more (by 31.6%), propylene (by 31.1%). In the division *Rubber and plastic products* production increased of e.g. plastic floor, wall, ceiling coverings (by 25.5%), plates, sheet, film, foil of cellular polymers of styrene (by 17.8%), sheets, foil and strip, of non-cellular polymers of ethylene, not reinforced, of a thickness not exceeding 0.125 mm (by 14.4%), plastic windows (by 8.9%), plastic sacks and bags (by 6.2%). In the division *Other non-metallic mineral products* production increased of e.g. ceramic ridge tiles (by 48.3%), non-refractory clay building bricks (by 26.0%), structural-wall clay hollow bricks (by 24.7%), building blocks of light concrete (by 22.2%), structural-wall tiles of calcium-silicate (by 18.1%), building bituminous felt (by 12.5%). In the division *Basic metals* production increased of e.g. pig iron (by 24.5%), wire of steel (by 17.6%), copper and copper alloy bars, rods and profiles (by 17.2%), cold-rolled steel sheet width 600 mm or wider (by 16.9%), railway or tramway steel rails (by 12.3%), crude steel (by 9.9%). In the division *Fabricated metal products* production increased of e.g. hand tools of a kind used in agriculture, horticulture or forestry (by 24.5%), radiators for central heating of iron or steel (by 24.5%), aluminium reservoirs, tanks and similar containers for any material (other than compressed or liquefied gas), of a capacity > 300 litres (by 15.0%), aluminium windows (by 13.7%), steel doors (by 12.0%), food cans of tinplate (by 9.3%). In the divisions *Computer, electronic and optical products* and *Electrical equipment* production increased of e.g. primary cells and batteries (by 36.3%), automatic drying machines (by 27.7%), inside aerials for radio or television reception (by 19.9%), telephone sets,

excluding cellular phones (by 19.3%), computers (by 14.2%), vacuum cleaners (by 13.4%), electric conductors, for a voltage > 1 000 V (by 12.1%). In the division *Machinery and equipment* production increased of e.g. kitchen and bathroom mixing valves (by 33.4%), centrifugal pumps for liquids, excluding: pumps used in fluid power equipment, fuel, coolant, lubricant and concrete pumps (by 27.6%), refrigerated show-cases and counters (by 17.5%), compressors for refrigeration equipment (by 16.4%), loaders for general use in agriculture (by 6.5%). In the divisions *Motor vehicles* and *Other transport equipment* production increased of e.g. bicycles (by 48.2%), public transport vehicles (by 38.8%), lorries and road tractors for semi-trailers (by 8.0%). In the division *Furniture* production increased of e.g. kitchen furniture of wood (by 18.1%).

**In January – December 2024 compared with the corresponding period of the previous year,** production decrease was recorded for 210 products. In the divisions covering energy raw materials production decreased of e.g. hard coal (by 8.9%), petroleum oils and oils obtained from bituminous minerals (by 6.4%). In the division *Food products* production decreased of e.g. homogenized fruit, vegetable and fruit and vegetable mousses (by 31.0%), canned poultry meat (by 21.7%), vegetable pickles (by 18.6%), crispbread (by 16.1%), tomato juice (by 14.5%), groundnuts and nuts, shelled and sunflower seeds, peeled (by 13.1%), milk and cream powder (by 12.8%). In the divisions *Wearing apparel* and *Leather and related products* production decreased of e.g. women's or girls' suits and ensembles, not knitted (by 62.7%), men's or boys' trousers, overalls and shorts, not knitted (by 42.5%), women's or girls' overcoats and similar articles, not knitted (by 37.2%), women's or girls' overcoats and similar articles, knitted or crocheted (by 31.1%), women's or girls' blouses and shirts, not knitted (by 26.6%), jerseys, pullovers, cardigans, waistcoats and similar articles, knitted or crocheted (by 21.5%), footwear with leather uppers (by 18.9%). In the divisions *Wood and products of wood* and *Paper and paper products* production decreased of e.g. sanitary towels and similar articles of paper pulp, paper and cellulose wadding (by 65.2%), veneers (by 28.5%), non-coniferous sawnwood (by 14.1%), fluting paper (by 6.5%). In the divisions *Coke, briquette and refined petroleum products* and *Chemical products* production decreased of e.g. toluene (by 85.4%), paints and varnishes other than colodium containing in solution more than 50% of solvent by weight (by 34.2%), light fuel oils (by 31.8%), sodium hydroxide, solid (by 29.8%), hair care products (by 21.7%), distilled ethyl alcohol (by 11.0%), toilet waters (by 10.9%), motor oils (by 9.5%). In the division *Rubber and plastic products* production decreased of e.g. tyres for agricultural machinery (by 24.4%), tyres for tractors (by 18.9%), tableware and kitchenware of plastic (by 17.1%), tyres for lorries and buses (by 16.7%), tubes, pipes and hoses of vulcanised rubber other than hard rubber (by 9.8%). In the division *Other non-metallic mineral products* production decreased of e.g. structural-floor clay hollow bricks (by 68.9%), ceramic roof tiles (by 21.0%), sanitary fixtures of porcelain (by 19.6%), non-woven glass fibre webs, felts, mattresses and boards (by 18.0%), gypsum plasters (by 13.1%), ceramic sanitary fixtures (by 8.5%), factory made mortars (by 7.9%). In the division *Basic metals* production decreased of e.g. flat cold-rolled steel products width less than 600 mm (by 23.9%), hot rolled steel products (by 23.1%), seamless tubes (by 14.3%), bronze (by 11.4%), copper plates, sheets and strip (by 8.0%). In the division *Fabricated metal products* production decreased of e.g. welded grill, netting and fencing manufactured from wire of a diameter of < 3 mm (by 35.0%), iron or steel containers for compressed or liquefied gas (by 25.7%), iron or steel reservoirs, tanks and similar containers lined or heat-insulated, for liquids, of a capacity > 300 litres (by 20.1%), conductors not electrically insulated (by 12.4%), iron or steel reservoirs and similar containers for solids, of a capacity > 300 litres (by 11.0%), hand saws; blades for saws of all kinds (by 8.7%). In the divisions *Computer, electronic and optical products* and *Electrical equipment* production decreased of e.g. air-cooled transformers (by 49.6%), multi-phase current motors, excluding traction motors (by 44.5%), electricity meters (by 43.8%), gas meters (by 25.7%), LED light bulbs (by 23.6%), domestic gas cookers with an oven (by 18.2%), refrigerators and freezers, including combined refrigerators-freezers (by 16.3%). In the division *Machinery and*

equipment production decreased of e.g. vacuum pumps (by 88.7%), pick-up straw and fodder balers (by 53.3%), ploughs (by 42.1%), lathes for working metal (by 35.4%), machine tools for machining metals (by 33.7%), field sowers (by 32.5%), hydraulic pumps (by 25.7%), agricultural tractors (by 24.8%). In the divisions *Motor vehicles* and *Other transport equipment* production decreased of e.g. rail goods wagons (by 41.1%), sea-going boats for pleasure or sports (by 38.7%), road tractors for semi-trailers (by 32.7%), passenger cars (by 27.3%), containers for freight transport (by 8.3%). In the division *Furniture* production decreased of e.g. wooden furniture for the dining-room and living-room (by 9.5%), seats with wooden frames (by 8.8%).

Chart 1 Manufactured production of sugar, in term of white sugar

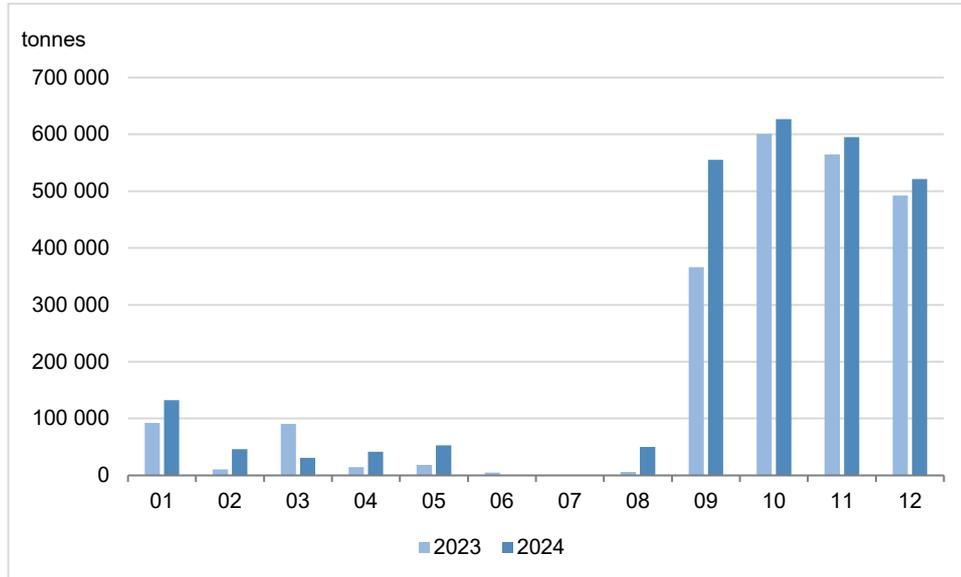
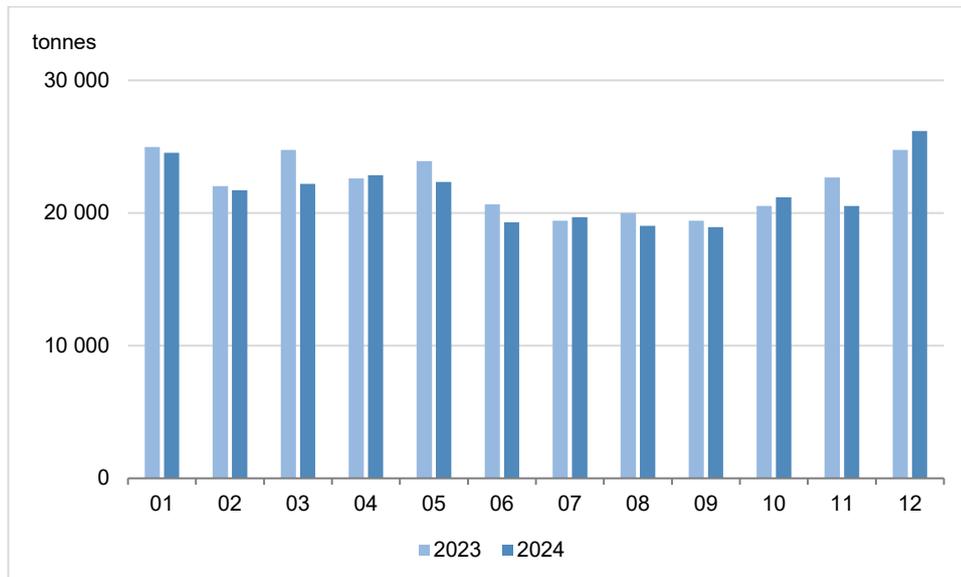


Chart 2 Manufactured production of butter and other spreads



## SOLD PRODUCTION

**In the period January–December 2024 compared with the corresponding period of the previous year**, sold production increased for 193 products. In the divisions *Food products* and *Beverages* production increased of e.g. dried fruit (excluding grapes); mixtures of dried nuts and/or dried fruits (by 46.6%), millet groats (by 31.9%), buckwheat groats and meal (by 24.1%), sugar (by 22.4%), prepared pet foods (by 21.2%), non-alcoholic beer (by 18.9%), crude rape and colza oil and their fractions, for human consumption (by 18.7%), barley groats and meal (by 18.2%). In the divisions *Wearing apparel* and *Leather and related products* production increased of e.g. men's or boys' shirts, not knitted (by 49.6%), women's or girls' blouses and shirts, not knitted (by 48.8%), men's or boys' jackets and blazers, not knitted (by 17.8%), footwear (including waterproof footwear), incorporating a protective metal toecap, with outer soles and uppers of rubber or of plastics (by 16.1%), jerseys, pullovers, cardigans, waistcoats and similar articles, knitted or crocheted (by 14.3%). In the divisions *Wood and products of wood* and *Paper and paper products* production increased of e.g. assembled parquet panels of wood for mosaic floors (by 59.6%), sacks and bags of paper (by 14.6%), coniferous sawnwood (by 13.3%), other paper and paperboard for graphic purposes (by 12.6%), wooden flooring materials (by 12.0%), flat pallets and pallet collars of wood (by 11.7%), testliner-recycled paper for cover layer of corrugated cardboard (by 10.1%). In the divisions *Coke, briquette and refined petroleum products* and *Chemical products* production increased of e.g. pesticides and agrochemicals used in agriculture and forestry (by 50.7%), rectified spirit (ethyl alcohol) (by 43.5%), anhydrous ethyl alcohol (by 30.1%), organic surface-active products and preparations for washing the skin; whether or not containing soap, p.r.s. (by 28.4%), nitrogenous fertilizers (by 24.0%). In the division *Rubber and plastic products* production increased of e.g. plastic floor, wall, ceiling coverings (by 23.7%), plates, sheet, film, foil of cellular polymers of styrene (by 11.3%), plastic windows (by 9.4%), sheets, foil and strip, of non-cellular polymers of ethylene, not reinforced, of a thickness not exceeding 0.125 mm (by 9.1%). In the division *Other non-metallic mineral products* production increased of e.g. ceramic ridge tiles (by 50.0%), structural-wall tiles of calcium-silicate (by 26.0%), building blocks of light concrete (by 22.1%), non-refractory clay building bricks (by 21.7%), structural-wall clay hollow bricks (by 21.3%), building bituminous felt (by 12.7%), bottles of coloured glass of a nominal capacity < 2,5 litres, for beverages and foodstuff (by 11.5%). In the division *Basic metals* production increased of e.g. refined unwrought lead (by 31.8%), cold-rolled steel sheet width 600 mm or wider (by 21.2%). In the division *Fabricated metal products* production increased of e.g. aluminium doors (by 67.8%), food cans of tinfoil (by 21.9%), hand tools of a kind used in agriculture, horticulture or forestry (by 18.5%), aluminium windows (by 15.4%), steel doors (by 9.7%), iron or steel reservoirs, tanks and similar containers for gases, of a capacity > 300 litres (by 7.9%). In the division *Electrical equipment* production increased of e.g. automatic drying machines (by 26.6%), electric conductors, for a voltage > 1 000 V (by 15.4%), single-phase current motors (by 8.0%), vacuum cleaners (by 6.8%), television receivers (by 6.6%). In the division *Machinery and equipment* production increased of e.g. centrifugal pumps for liquids, excluding: pumps used in fluid power equipment, fuel, coolant, lubricant and concrete pumps (by 31.5%), refrigerated show-cases and counters (by 27.4%), rotary displacement compressors (by 19.0%), reciprocating displacement compressors (by 14.1%), kitchen and bathroom mixing valves (by 12.7%). In the division *Other transport equipment* production increased of e.g. bicycles (by 45.9%). In the division *Furniture* production increased of e.g. kitchen furniture of wood (by 16.1%).

**In the period January–December 2024 compared with the corresponding period of the previous year**, sold production decreased for 109 products. In the divisions covering energy raw materials production decreased of hard coal (by 7.6%). In the division *Food products* production decreased

of e.g. canned poultry meat (by 18.1%), milk and cream powder (by 12.1%), fruit, vegetable and fruit and vegetable mousses, unhomogenized (by 9.2%), fruit and vegetable juice (by 7.0%), crispbread (by 6.6%). In the division *Wearing apparel* production decreased of e.g. women's or girls' trousers, overalls and shorts, not knitted (by 47.5%), men's or boys' trousers, overalls and shorts, not knitted (by 40.1%), women's or girls' overcoats and similar articles, knitted or crocheted (by 33.7%), men's or boys' suits and ensembles, not knitted (by 26.1%), women's or girls' jackets, not knitted (by 25.4%). In the divisions *Wood and products of wood* and *Paper and paper products* production decreased of e.g. sanitary towels and similar articles of paper pulp, paper and cellulose wadding (by 65.5%), veneers (by 34.0%), non-coniferous sawnwood (by 11.1%), fluting paper (by 9.2%). In the divisions *Coke, briquette and refined petroleum products* and *Chemical products* production decreased of e.g. distilled ethyl alcohol (by 35.9%), paints and varnishes other than colodium containing in solution more than 50% of solvent by weight (by 25.9%), hair care products (by 22.3%), motor oils (by 13.0%), toilet waters (by 10.4%), coke (by 10.3%). In the division *Rubber and plastic products* production decreased of e.g. tableware and kitchenware of plastic (by 15.9%), tyres (by 10.1%), plastic doors (by 6.2%). In the division *Other non-metallic mineral products* production decreased of e.g. structural-floor clay hollow bricks (by 61.3%), gypsum plasters (by 25.5%), factory made mortars (by 8.8%). In the division *Fabricated metal products* production decreased of e.g. welded grill, netting and fencing manufactured from wire of a diameter of < 3 mm (by 31.5%), iron or steel containers for compressed or liquefied gas (by 26.0%), iron or steel reservoirs, tanks and similar containers lined or heat-insulated, for liquids, of a capacity > 300 litres (by 20.3%), iron or steel reservoirs and similar containers for solids, of a capacity > 300 litres (by 13.2%). In the divisions *Computer, electronic and optical products* and *Electrical equipment* production decreased of e.g. air-cooled transformers (by 49.4%), multi-phase current motors, excluding traction motors (by 44.9%), electricity meters (by 43.6%), domestic gas cookers with an oven (by 20.7%), optical fibre cables (by 16.6%), refrigerators and freezers, including combined refrigerators-freezers (by 15.7%), insulated wires and conductors (by 13.6%), lead-acid accumulators (by 9.7%). In the division *Machinery and equipment* production decreased of e.g. ploughs (by 41.7%), pick-up straw and fodder balers (by 37.7%), field sowers (by 33.6%), machine tools for machining metals (by 29.4%), machinery for construction, road and drainage work (by 27.3%), hydraulic pumps (by 26.0%), cash registers (by 18.6%), scarifiers and cultivators (by 18.3%). In the divisions *Motor vehicles* and *Other transport equipment* production decreased of e.g. rail goods wagons (by 40.4%), sea-going boats for pleasure or sports (by 37.0%), passenger cars (by 27.9%), public transport vehicles (by 9.8%), internal combustion engines for vehicles (by 9.4%), containers for freight transport (by 8.6%). In the division *Furniture* production decreased of e.g. seats with wooden frames (by 9.0%), wooden furniture for the dining-room and living-room (by 8.8%). Production of liquid buttermilk and nails was at the same level as in the corresponding period of the previous year.

## Methodological notes

The data were compiled on the basis of a monthly survey of production of industrial products on the P-02 form "Report on production and inventory of industrial products". In case of electricity, the data are derived from specialist surveys conducted by Minister responsible for energy and the President of Energy Regulatory Office.

Data are collected according to groupings indicated in the PRODPOL nomenclature for monthly surveys in the reporting year. The nomenclature is based on the Polish Classification of Goods and Services (PKWiU 2015) – introduced on January 1, 2016 for use in statistics, registration, documentation and accounting, and also in official registers and public administration information systems (Regulation of the Council of Ministers of 4 September 2015, Journal of Laws, item 1676) and on the PRODCOM List used in the European Union.

### 1. Scope of units and products surveyed

The monthly survey covers legal entities, organizational units without legal personality (excluding budgetary units and establishments) and natural persons conducting business activities, with the number of persons employed exceeding 49. Units producing electricity are included in the survey regardless of the number of persons employed. The survey applies to all business entities which manufacture products specified in the PRODPOL nomenclature for a given reporting year, regardless of the kind of economic activity classified according to the Polish Classification of Activities (PKD 2007).

The survey of production of industrial products does not include the following units:

- trade units, which ordered the manufacture of goods in a production company and did not provide raw materials for the manufacture of these goods,
- running only publishing activities and not directly involved in the printing preparation process or printing process,
- engaged only in activities related to the production of films, video recordings, television programs, sound and music recordings and not directly involved in the process of reproduction of sound recordings, video recordings or reproduction of computer storage media.

The survey provides data on the quantity of production of finished products manufactured on own account or under subcontracting, from material provided by the principal, as of the end of the reporting month. The processing or modification of a purchased product, which did not change the characteristics of its use and purpose, is not considered as production.

The basic principle in determining the quantity of production is its homogeneity which allows aggregation of particular product ranges.

In order to obtain comparable data on the production of industrial products, the PRODPOL nomenclature is used. It contains a list of products with the symbol and the name of the product or assortment group and assigned to them units of measure in which production should be reported. This allows the units to report the data on production of products which belong to the same category but are traded under different own names, in one PRODPOL grouping under the same name and in the same unit of measure.

The PRODPOL nomenclature is compliant at six-digit level with the PKWiU 2015 classification and at eight-digit level with the PRODCOM List. 10- and 12-digit groupings result from the demands reported by domestic users. The PRODPOL nomenclature is updated annually and is available on the Statistics Poland website

[https://stat.gov.pl/Klasyfikacje/doc/prodpol/opis\\_mc2024.html](https://stat.gov.pl/Klasyfikacje/doc/prodpol/opis_mc2024.html).

It is very important to determine the unit of measurement for each grouping that corresponds to physical characteristics and intended use of particular type of product.

In most cases, the data is collected in the physical units of measure. For non-homogeneous product groupings, if they have at least one common feature defining their properties, conventional units of measure are used. A typical example of the use of conventional units of measure are chemical products in which the quantity is expressed in terms of pure ingredient. For groupings containing products of considerable diversity, e.g. pharmaceutical products, it is not possible to use physical units of measure. In this case, data are collected only on the value of sold production in current prices expressed in thousands zloty.

In cases where one unit of measure does not specify sufficiently the functional features of a given product as well as the volume of its production, several units of measure are used at the same time.

Differences between manufactured production and sold production in the monthly surveys result from the fact that:

- products can be produced for stock and sold in the following reporting periods, e.g. due to the seasonal availability of raw materials for production (e.g. frozen vegetables), increased seasonal sales of certain products (e.g. mineral waters, beer in the summer), in connection with planned holidays or downtime for maintenance,
- products can be sold from stock,
- the products were manufactured under subcontracting, and the contractor or principal is not covered by the P-02 surveys (this especially applies to products from the Wearing apparel division),
- some products may be manufactured by enterprises for their own purposes and used in the further production of other products, therefore they do not appear in the course of trade or appear only in small quantities (this applies especially to basic chemicals).

Monthly data on production of industrial products may be subject to monthly revisions up to 14 months after the end of the reporting year. The revisions result from the specificity of the survey of production of industrial products related to difficulties in classifying certain products to relevant headings of PRODPOL nomenclature and to short period for preparing monthly data by reporting units.

## 2. Explanation of basic concepts

**Manufactured production** is the result of manufacturing processes mutually interrelated and conditioned, occurring at a given time.

Manufactured production includes the total quantity of finished products produced in the reporting period, both from manufacturer's own raw material and from raw material provided by another enterprise or natural person. It also includes the total volume of semi-finished products, parts, sets of machinery and equipment, regardless of whether they were intended for sale or to the parent company, to other plants of the same company, or intended for further processing (assembly) in the enterprise. Therefore, manufactured products include products manufactured by the enterprise, meeting certain standards, technical conditions or contractual terms concluded between the contractor and the recipient. Products made of secondary raw material are considered as production, if they are of utility and are a direct result of the manufacturing work of the enterprise. The production also includes the so-called by-products, created in the production process simultaneously with the main product.

**Sold production of industrial products** is the quantity and value of products of own production or production ordered in another enterprise from provided materials, sold outside of the enterprise in the reporting period, regardless of the moment of their production.

**Production under subcontracted operations** is the production made on order by the contractor, from materials provided by the ordering company (principal).

**Finished products** are products that are not further processed within the same enterprise in which they were produced, that means products completely finished and completed, after passing the entire production process. Finished products should comply with certain standards, and in case of lack of such requirements – with specifications or contractual conditions concluded between the manufacturer and the recipient.