



Warsaw 2022

Production of major industrial products in February 2022



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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 ³	cubic decametre
GWh	gigawatt-hour
hm ³	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 324 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 exceeding 49 persons.

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 February 2022 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 production of products retrospectively, by the months of the current and previous year. The sum of data from particular months 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.

Table 3 presents the data on sold production of products in February 2022 along with production dynamics indicators in relation to the previous month and to corresponding period of the previous year.

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

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

Executive summary

In February 2022, 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 2022.

The publication presents data on manufactured production for 324 products and assortment groups and on sold production for 239 products and assortment groups. In February 2022, manufactured production of 194 items and sold production of 129 items was higher than in February 2021. Decrease was noted on manufactured production for 122 items and on sold production for 100 items. Data on production of vodka, women's or girls' dresses and skirts and seamless tubes is not published as it was not possible to obtain production data from some economic entities.

MANUFACTURED PRODUCTION

Indicators of the dynamics of manufacturing industrial products were different in various sectors. In February 2022 in comparison to February 2021, in the divisions *Food products* and *Beverages* increased the production of e.g. apple juice (by 68.7%), prepared meals and dishes based on meat (by 62.8%), buckwheat groats and meal (by 49.4%), barley groats and meal (by 39.5%), prepared meals and dishes based on vegetables (by 36.3%), milk and cream powder (by 32.0%), sweetened or flavoured waters (by 24.7%), fresh or chilled beef and veal (by 23.1%), tomato juice (by 22.8%), frozen vegetables (by 21.3%), non-alcoholic beer (by 20.1%). In the division *Wearing apparel* production increased e.g. of panty hose and tights (by 84.3%), men's or boys' shirts (by 44.4%), men's or boys' overcoats and similar articles (by 42.9%), men's or boys' suits and ensembles (by 14.4%), men's or boys' trousers, overalls and shorts (by 8.2%), women's or girls' trousers, overalls and shorts (by 6.1%), women's or girls' suits and ensembles (by 6.0%). In the divisions *Wood and products of wood* and *Paper and paper products* production increased e.g. of sanitary towels and similar articles of paper pulp (by 13.9%), windows of wood (by 12.9%), toilet paper (by 8.5%), napkins and napkin liners for babies (by 7.6%), other paper and paperboard for graphic purposes (by 4.5%), uncoated, unbleached kraftliner (by 4.4%), veneers (by 4.2%). In the divisions *Coke, briquette and refined petroleum products* and *Chemical products* production increased of diesel oils (by 64.5%), paints and varnishes, based on acrylic or vinyl polymers, weight of the solvent more than 50% (by 61.3%), phenol (by 44.3%), motor gasoline (by 33.7%), polyvinyl chloride not mixed with any other substances (by 32.6%), motor oils (by 32.4%), butadiene-1,3 (by 32.3%), paints and varnishes, based on polyesters, weight of the solvent more than 50% (by 31.3%), propylene (by 29.6%), paints and varnishes other than colodium containing in solution more than 50% of solvent by weight (by 28.4%), toluene (by 19.6%). In the division *Rubber and plastic products* production increased e.g. of plates, sheet, film, foil of cellular polymers of styrene (by 37.1%), tyres for agricultural machinery (by 30.2%), plastic floor, wall, ceiling coverings (by 22.3%), plastic windows (by 9.0%), tyres for lorries and buses (by 7.1%), plastic sacks and bags (by 4.2%). In the division *Other non-metallic mineral products* production increased of structural-floor clay hollow bricks (by 388.2%), flagstones and similar articles of concrete (by 202.4%), ready-mixed concrete (by 70.0%), cement (by 62.5%), ceramic ridge tiles (by 42.8%), building bituminous felt (by 39.3%), float glass and surface ground glass (by 30.9%), bottles of coloured glass of a nominal capacity < 2,5 litres, for beverages and foodstuff (by 24.4%), calcium-silicate brick (by 23.3%), multiple glazed units (by 22.2%), structural-wall tiles of calcium-silicate (by 21.2%), factory made mortars (by 21.1%). In the division *Basic metals* production increased e.g. of welded tubes (by 41.9%), copper plates, sheets and strip (by 27.2%), wire of steel (by 11.3%), steel rods and flat bars (by 5.7%), flat bars, rods and profiles of aluminium (by 5.4%), cathodes of copper (by 5.1%), zinc, electrolytic (by 4.2%). In the division *Fabricated metal products* production increased of steel doors (by 22.8%), aluminium

doors (by 21.2%), food cans of tinplate (by 18.6%), cans other than for preserving food and drink of iron or steel, of a capacity < 50 l (by 16.4%), conductors not electrically insulated (by 15.3%). In the divisions *Computer, electronic and optical products* and *Electrical equipment* production increased of e.g. telephone sets, excluding cellular phones (by 69.3%), food grinders, mixers and juice extractors (by 58.9%), air-cooled transformers (by 46.0%), computers (by 35.2%), gas meters (by 16.7%), television receivers (by 13.9%), insulated power cables (by 8.7%), single-phase current motors (by 7.1%), electric cookers including gas-electric cookers (by 5.0%). In the division *Machinery and equipment* production increased e.g. of scarifiers and cultivators (by 35.5%), machinery for construction, road and drainage work (by 33.9%), agricultural tractors (by 27.9%), machining centres, unit construction machines and multi-station transfer machines for working metal (by 23.1%), concrete mixers (by 16.6%), ball bearings (by 8.5%), lathes for working metal (by 7.1%), refrigerated show-cases and counters (by 4.6%). In the divisions *Motor vehicles* and *Other transport equipment* production increased e.g. of bicycles (by 46.7%), sea-going boats for pleasure or sports (by 38.5%), public transport vehicles (by 10.3%), vehicle compression-ignition engines (by 9.6%). In the division *Furniture* production increased of seats convertible into beds (by 7.7%), seats with wooden frames (by 5.9%), wooden bedroom furniture (by 4.6%), kitchen furniture of wood (by 3.6%).

In February 2022 in comparison to February 2021, in the division *Food products* production decreased of frozen salt water fish (by 41.3%), edible rock salt (by 31.0%), sugar confectionery containing cocoa (by 26.9%), rendered pork fat suitable for consumption (by 23.5%), canned beef and veal meat (by 23.4%), poultry cuts (by 14.8%), frozen salt water fish fillets (by 9.4%), prepared feeds for farm animals (by 8.5%), fresh bread (by 6.8%). In the divisions *Wearing apparel* and *Leather and related products* production decreased of unsplit bovine leather for shoes (by 45.2%), footwear with leather uppers (by 35.8%), women's or girls' blouses and shirts (by 33.4%), women's or girls' overcoats and similar articles (by 32.2%), men's or boys' jackets and blazers (by 10.0%), footwear with uppers of textile materials (by 9.3%). In the divisions *Wood and products of wood* and *Paper and paper products* production decreased of assembled parquet panels of wood for mosaic floors (by 33.5%), wooden flooring materials (by 19.0%), assembled parquet panels of wood other than for mosaic floors (by 13.5%), testliner-recycled paper for cover layer of corrugated cardboard (by 7.6%), particle and similar boards of wood and ligneous materials (by 4.8%), non-coniferous sawnwood (by 4.4%). In the divisions *Coke, briquette and refined petroleum products* and *Chemical products* production decreased of acetic acid (by 76.3%), fuel oils (by 34.0%), polyurethane adhesives (by 25.5%), potassic fertilizers (by 17.6%), phosphatic fertilizers (by 13.2%), pesticides (by 12.9%), glues and adhesives based on synthetic resins (by 12.5%), sulphuric acid (by 9.7%), anhydrous ammonia (by 8.7%). In the division *Rubber and plastic products* production decreased of plastic doors (by 32.1%), plastic boxes, cases, crates (by 10.3%), sheets, foil and strip, of non-cellular polymers of ethylene, not reinforced, of a thickness not exceeding 0.125 mm (by 8.5%), tubes, pipes and hoses of vulcanised rubber other than hard rubber (by 8.2%), rigid tubes, pipes and hoses of polymers of ethylene (by 5.8%), rigid tubes, pipes and hoses of polymers of propylene (by 5.6%). In the division *Basic metals* production decreased of bronze (by 74.4%), brass (by 63.2%), cold-rolled steel sheet width 600 mm or wider (by 31.8%), wire of aluminium (by 22.5%), hot rolled steel products (by 17.8%), railway or tramway steel rails (by 9.3%), sheets and strips of non-alloy steel coated with zinc (by 9.1%), hot-rolled steel rods and bars (by 7.0%), flat cold-rolled steel products width less than 600 mm (by 7.0%), copper and copper alloy bars, rods and profiles (by 5.6%). In the divisions *Computer, electronic and optical products* and *Electrical equipment* production decreased of filament lamps (by 64.5%), radio receivers of a kind used in motor vehicles (by 42.7%), domestic gas cookers with an oven (by 32.3%), automatic washing and washing-drying machines for households (by 26.7%), LED light bulbs (by 22.8%), vacuum cleaners (by 19.0%), lead-acid accumulators for motor vehicles (by 18.2%), automatic drying machines for households (by 14.1%), household refrigerators and freezers (by 7.8%). In the division *Machinery and*

equipment production was lower e.g. of cash registers (by 48.7%), pick-up balers (by 28.2%), ploughs (by 20.1%), field sowers (by 13.0%), loaders for general use in agriculture (by 5.1%). In the divisions *Motor vehicles* and *Other transport equipment* production decreased of passenger cars (by 26.4%), lorries and road tractors for semi-trailers (by 8.3%), rail goods wagons (by 4.4%), containers for freight transport (by 3.6%).

In February 2022 in comparison to February 2021, unchanged remained the production of natural gas and rennet ripening cheese.

Compared to January 2022, in February 2022 production decreased for 152 products. In the divisions coverings energy raw materials production decreased of lignite (by 23.3%). In the divisions *Food products* and *Beverages* production decreased of fresh bread (by 16.4%), frozen salt water fish (by 16.1%), poultry cuts (by 15.9%), butter (by 14.5%), frozen salt water fish fillets (by 14.2%), poultry meat (by 13.5%), sugar confectionery containing cocoa (by 13.2%). In the divisions *Wearing apparel* and *Leather and related products* production decreased of women's or girls' overcoats and similar articles (by 37.5%), men's or boys' jackets and blazers (by 22.6%), women's or girls' jackets (by 17.5%). In the divisions *Wood and products of wood* and *Paper and paper products* production decreased of testliner-recycled paper for cover layer of corrugated cardboard (by 17.8%), other paper and paperboard for graphic purposes (by 12.6%), particle and similar boards of wood and ligneous materials (by 11.8%), toilet paper (by 10.5%), wooden flooring materials (by 10.4%), fibreboard of wood or ligneous materials (by 10.2%), paper and paperboard (by 9.7%). In the divisions *Coke, briquette and refined petroleum products* and *Chemical products* production decreased of acetic acid (by 54.0%), synthetic rubber (by 21.6%), polypropylene (by 20.5%), light fuel oils (by 20.4%), phenol (by 19.7%), sulphuric acid (by 16.9%), toluene (by 16.6%), sodium hydroxide in aqueous solution (by 15.2%), propylene (by 15.0%). In the division *Rubber and plastic products* production decreased of tyres for tractors (by 5.6%), tyres for passenger cars (by 4.9%), tyres for agricultural machinery (by 4.6%), tyres for lorries and buses (by 4.2%), rigid tubes, pipes and hoses of polymers of ethylene (by 4.2%). In the division *Other non-metallic mineral products* production decreased of bricks made of clay (by 45.1%), non-refractory clay building bricks (by 19.2%), clinker (by 19.0%), non-woven glass fibre webs, felts, mattresses and boards (by 18.8%), structural-wall clay hollow bricks (by 17.9%), lime (by 14.2%), bottles of colourless glass of a nominal capacity < 2,5 litres, for beverages and foodstuff (by 13.0%). In the division *Basic metals* production decreased of bronze (by 49.1%), hot rolled steel products (by 25.5%), cold-rolled steel sheet width 600 mm or wider (by 20.4%), railway or tramway steel rails (by 19.4%), refined unwrought lead (by 18.1%), sheets and strips of non-alloy steel coated with zinc (by 14.8%), hot-rolled steel rods and bars (by 12.1%), pig iron (by 11.7%). In the division *Fabricated metal products* production decreased of food cans of tinplate (by 7.0%), aluminium windows (by 4.8%), conductors not electrically insulated (by 4.7%). In the divisions *Computer, electronic and optical products* and *Electrical equipment* production decreased of computers (by 17.4%), gas meters (by 15.1%), television receivers (by 9.5%), automatic washing and washing-drying machines for households (by 7.4%), electric motors and generators (by 7.3%). In the division *Machinery and equipment* production decreased of lathes for working metal (by 11.8%), machining centres, unit construction machines and multi-station transfer machines for working metal (by 8.6%). In the division *Other transport equipment* production decreased of rail goods wagons (by 5.1%).

Compared to the previous month, in February 2022 production increased for 165 products. In the divisions *Food products* and *Beverages* production increased of non-alcoholic beer (by 86.4%), buckwheat groats and meal (by 63.3%), frozen vegetables (by 23.2%), canned fish (by 18.8%), vegetable pickles (by 17.2%), rendered pork fat suitable for consumption (by 17.1%), apple juice (by 13.1%), barley groats and meal (by 12.6%). In the divisions *Wearing apparel* and *Leather and related products* production increased of panty hose and tights (by 60.0%), men's or boys' overcoats and similar articles (by 40.8%), unsplit bovine leather for shoes (by 39.1%), leather of bovine animals (by 36.7%), women's or girls' blouses and shirts (by 32.0%), footwear with leather

uppers (by 20.8%). In the divisions *Wood and products of wood* and *Paper and paper products* production increased of doors of wood (by 9.2%), windows of wood (by 9.1%), veneers (by 7.4%), non-coniferous sawnwood (by 7.2%), flat pallets and pallet collars of wood (by 6.9%). In the divisions *Coke, briquette and refined petroleum products* and *Chemical products* production increased of asphalt (by 188.7%), paints and varnishes, based on acrylic or vinyl polymers in an aqueous medium (by 26.1%), motor oils (by 24.1%), paints and varnishes, based on acrylic or vinyl polymers, weight of the solvent more than 50% (by 22.0%), glues and adhesives based on synthetic resins (by 21.1%), paints and varnishes other than colodium containing in solution more than 50% of solvent by weight (by 21.0%), polyurethane adhesives (by 15.2%), pesticides (by 13.8%). In the division *Rubber and plastic products* production increased of plastic windows (by 22.1%), rigid tubes, pipes and hoses of polymers of vinyl chloride (by 21.8%), plastic floor, wall, ceiling coverings (by 21.7%), tubes, pipes and hoses of vulcanised rubber other than hard rubber (by 17.3%), plastic doors (by 12.5%). In the division *Other non-metallic mineral products* production increased of building bituminous felt (by 242.1%), multiple glazed units (by 133.2%), double glazed units (by 40.3%), ready-mixed concrete (by 31.9%), calcium-silicate brick (by 23.2%), autoclaved cellular concrete (by 22.8%), building blocks of light concrete (by 22.5%), factory made mortars (by 22.3%), cement (by 19.7%), structural-wall tiles of calcium-silicate (by 18.5%), gypsum plasters (by 16.5%). In the division *Basic metals* production increased of brass (by 57.7%), welded tubes (by 45.8%), wire of aluminium (by 37.2%), copper and copper alloy bars, rods and profiles (by 11.2%). In the division *Fabricated metal products* production increased of aluminium doors (by 45.6%), iron or steel reservoirs and similar containers for solids, of a capacity > 300 litres (by 18.1%). In the divisions *Computer, electronic and optical products* and *Electrical equipment* production increased of food grinders, mixers and juice extractors (by 655.2%), electric hobs for building-in (by 35.6%), telephone sets, excluding cellular phones (by 33.9%), electric ovens for building-in (by 19.5%), gas-electric cookers (by 17.1%), lead-acid accumulators for motor vehicles (by 15.9%), single-phase current motors (by 14.6%). In the division *Machinery and equipment* production increased of concrete mixers (by 102.2%), machinery for construction, road and drainage work (by 69.2%), pick-up balers (by 44.3%), agricultural tractors (by 28.8%), ploughs (by 23.7%), field sowers (by 22.2%), machine tools for machining metals (by 16.0%). In the divisions *Motor vehicles* and *Other transport equipment* production increased of public transport vehicles (by 103.8%), bicycles (by 24.8%), passenger cars (by 17.7%), lorries and road tractors for semi-trailers (by 16.6%), containers for freight transport (by 13.2%). In the division *Furniture* production increased of kitchen furniture of wood (by 14.0%), wooden bedroom furniture (by 12.3%), seats convertible into beds (by 10.9%). Unchanged remained the production of rubber products.

Summarizing the production in the period January–February 2022, in comparison with the corresponding period of the previous year increase of production was recorded for 199 items, among others: structural-floor clay hollow bricks (by 540.7%), woven fabrics of cotton weighing 200 g/m² or less (by 100.8%), flagstones and similar articles of concrete (by 91.3%), telephone sets, excluding cellular phones (by 90.3%), panty hose and tights (by 88.1%), sugar (by 86.4%), women's or girls' suits and ensembles (by 84.7%), table candles (by 79.2%), yarn of carded wool (by 72.7%), paints and varnishes, based on acrylic or vinyl polymers, weight of the solvent more than 50% (by 67.9%), prepared meals and dishes based on meat (by 64.8%), apple juice (by 64.3%), bricks made of clay (by 60.1%), cement (by 51.5%), ready-mixed concrete (by 48.7%), men's or boys' suits and ensembles (by 47.3%), computers (by 45.1%), bicycles (by 44.9%), air-cooled transformers (by 44.6%), ceramic ridge tiles (by 44.3%), special fabrics including pile fabrics and terry towelling (by 44.0%), electric motors and generators (by 42.6%), barley groats and meal (by 42.4%), men's or boys' shirts (by 42.1%), men's or boys' overcoats and similar articles (by 41.8%), textile floor coverings (by 41.6%), sea-going boats for pleasure or sports (by 39.7%), agricultural tractors (by 38.6%), tyres for agricultural machinery (by 35.8%),

steel doors (by 35.6%), scarifiers and cultivators (by 34.4%), paints and varnishes other than colodium containing in solution more than 50% of solvent by weight (by 33.1%).

In the period January–February 2022 compared with the corresponding period of the previous year, production decreased for 118 items, among others for: brass (by 82.8%), filament lamps (by 64.8%), acetic acid (by 58.2%), bronze (by 48.1%), radio receivers of a kind used in motor vehicles (by 42.4%), LED light bulbs (by 41.3%), cash registers (by 40.4%), domestic gas cookers with an oven (by 38.6%), woven fabrics of cotton weighing more than 200 g/m² (by 36.4%), footwear with leather uppers (by 35.8%), unsplit bovine leather for shoes (by 35.4%), heavy fuel oils (by 32.8%), plastic doors (by 30.5%), women's or girls' blouses and shirts (by 30.4%), polyurethane adhesives (by 29.7%), frozen salt water fish (by 28.1%), wire of aluminium (by 27.5%), electric hobs for building-in (by 25.1%), rendered pork fat suitable for consumption (by 24.7%), cold-rolled steel sheet width 600 mm or wider (by 24.5%), food grinders, mixers and juice extractors (by 24.5%), pick-up balers (by 24.5%), asphalt (by 24.1%), potassic fertilizers (by 23.1%), passenger cars (by 22.9%), women's or girls' overcoats and similar articles (by 22.4%), automatic washing and washing-drying machines for households (by 22.3%), assembled parquet panels of wood for mosaic floors (by 22.1%).

Unchanged remained the production of rubber products and ceramic sanitary fixtures.

SOLD PRODUCTION

Indicators of the dynamics of sold industrial products were different in various sectors. In February 2022 in comparison to February 2021, in the divisions covering energy raw materials sold production increased of hard coal (by 2.9%). In the divisions *Food products* and *Beverages* production increased of prepared meals and dishes based on meat (by 55.1%), wheat groats and meal (by 35.1%), barley groats and meal (by 35.0%), sweetened or flavoured waters (by 30.8%), apple juice (by 23.0%), milk and cream powder (by 22.2%), vinegar (by 18.5%), butter (by 17.3%), prepared meals and dishes based on vegetables (by 15.5%), standardized cream (by 15.2%). In the division *Wearing apparel* production increased of women's or girls' blouses and shirts (by 47.8%), women's or girls' jackets (by 27.7%), men's or boys' trousers, overalls and shorts (by 15.6%). In the divisions *Wood and products of wood* and *Paper and paper products* production increased of veneers (by 22.1%), windows of wood (by 18.8%), toilet paper (by 12.5%), sanitary towels and similar articles of paper pulp (by 10.7%), particle and similar boards of wood and ligneous materials (by 9.1%), sacks and bags of paper (by 7.3%), flat pallets and pallet collars of wood (by 5.6%). In the divisions *Coke, briquette and refined petroleum products* and *Chemical products* production increased of paints and varnishes, based on acrylic or vinyl polymers, weight of the solvent more than 50% (by 38.7%), sodium hydroxide in aqueous solution (by 36.6%), motor gasoline (by 26.4%), diesel oils (by 25.8%), plastics (by 23.1%), synthetic calcium sulphate (by 14.1%), paints, varnishes and similar coatings (by 8.0%), toilet waters (by 6.8%), detergents and washing preparations (by 6.5%). In the division *Rubber and plastic products* production increased of plates, sheet, film, foil of cellular polymers of styrene (by 34.7%), rigid tubes, pipes and hoses of polymers of ethylene (by 14.8%), plastic floor, wall, ceiling coverings (by 14.7%), rigid tubes, pipes and hoses of polymers of vinyl chloride (by 8.6%), plastic windows (by 7.2%), rigid tubes, pipes and hoses of polymers of propylene (by 6.6%). In the division *Other non-metallic mineral products* production increased of structural-floor clay hollow bricks (by 196.6%), bricks made of clay (by 82.1%), flagstones and similar articles of concrete (by 79.6%), ready-mixed concrete (by 70.6%), cement (by 66.8%), calcium-silicate brick (by 38.2%), building blocks of light concrete (by 26.3%), multiple glazed units (by 22.5%), building bituminous felt (by 22.0%), ceramic ridge tiles (by 16.9%), products of heat insulation of mineral wools (by 15.9%). In the division *Basic metals* production increased of hot rolled steel products (by 16.6%), steel rods and flat bars (by 14.4%), hot-rolled steel rods and bars (by 11.1%). In the division *Fabricated metal products* production increased of steel doors (by 28.1%), aluminium

doors (by 25.9%), aluminium windows (by 13.1%). In the divisions *Computer, electronic and optical products* and *Electrical equipment* production increased of single-phase current motors (by 35.9%), air-cooled transformers (by 24.6%), television receivers (by 22.5%), insulated wires and conductors (by 17.9%), water meters (by 8.7%), gas meters (by 7.1%). In the division *Machinery and equipment* production increased of scarifiers and cultivators (by 43.6%), kitchen and bathroom mixing valves (by 22.2%), machine tools for machining metals (by 6.3%). In the divisions *Motor vehicles* and *Other transport equipment* production increased of sea-going boats for pleasure or sports (by 43.7%), bicycles (by 37.1%), public transport vehicles (by 19.1%), vehicle compression-ignition engines (by 5.1%). In the division *Furniture* production increased of seats with wooden frames (by 6.5%), wooden bedroom furniture (by 5.6%).

In February 2022 in comparison to February 2021, in the divisions *Food products* and *Beverages* sold production decreased of frozen salt water fish (by 43.6%), vegetable pickles (by 37.5%), sugar confectionery containing cocoa (by 27.6%), edible evaporated salt (by 23.4%), fruit wines (by 22.3%), fresh or chilled pig meat (by 16.7%), canned poultry meat (by 15.3%), frozen fruit and nuts (by 14.1%), poultry cuts (by 12.7%), rendered pork fat suitable for consumption (by 12.6%), poultry carcasses (by 11.3%), prepared feeds for farm animals (by 10.8%). In the divisions *Wearing apparel* and *Leather and related products* production decreased of women's or girls' trousers, overalls and shorts (by 35.6%), leather of bovine animals (by 35.1%), footwear (by 23.4%), men's or boys' shirts (by 22.0%), hosiery (by 12.5%). In the divisions *Wood and products of wood* and *Paper and paper products* production decreased of non-coniferous sawnwood (by 30.4%), assembled parquet panels of wood for mosaic floors (by 28.4%), wooden flooring materials (by 20.0%), assembled parquet panels of wood other than for mosaic floors (by 15.2%), coniferous sawnwood (by 9.4%), corrugated paperboard (by 7.9%). In the divisions *Coke, briquette and refined petroleum products* and *Chemical products* production decreased of potassic fertilizers (by 43.3%), polyurethane adhesives (by 38.4%), phosphatic fertilizers (by 29.6%), motor oils (by 26.0%), asphalt (by 21.4%), paints and varnishes, based on acrylic or vinyl polymers in an aqueous medium (by 20.0%), paints and varnishes other than colodium containing in solution more than 50% of solvent by weight (by 14.9%), liquefied propane and butane (by 14.8%), hair care products (by 13.3%), pesticides (by 12.8%), soap and organic surface-active products and preparations for use as soap; (by 10.1%), glues and adhesives based on synthetic resins (by 8.4%), nitrogenous fertilizers (by 5.5%). In the division *Rubber and plastic products* production decreased of plastic doors (by 32.3%). In the division *Other non-metallic mineral products* production decreased of bottles of coloured glass of a nominal capacity < 2,5 litres, for beverages and foodstuff (by 6.9%), float glass and surface ground glass (by 6.6%). In the division *Basic metals* production decreased of sheets and strips of non-alloy steel coated with zinc (by 8.9%), refined unwrought lead (by 7.6%), flat cold-rolled steel products width less than 600 mm (by 5.9%). In the division *Fabricated metal products* production decreased of food cans of tinplate (by 12.3%). In the divisions *Computer, electronic and optical products* and *Electrical equipment* production decreased of domestic gas cookers with an oven (by 58.5%), lead-acid accumulators for motor vehicles (by 29.4%), automatic washing and washing-drying machines for households (by 20.5%), electric cookers including gas-electric cookers (by 19.8%), automatic drying machines for households (by 13.7%), household refrigerators and freezers (by 11.1%), dish washing machines for households (by 8.9%), vacuum cleaners (by 7.9%). In the division *Machinery and equipment* production decreased of cash registers (by 66.3%), pick-up balers (by 32.2%), ploughs (by 20.6%), loaders for general use in agriculture (by 15.5%). In the divisions *Motor vehicles* and *Other transport equipment* production decreased of passenger cars (by 25.0%), internal combustion engines for vehicles (by 7.3%). In the division *Furniture* production decreased of kitchen furniture of wood (by 8.9%).

In February 2022 in comparison to February 2021, unchanged remained the production of fibreboards of wood or other ligneous materials.

In February 2022, in comparison to January 2022, there was a decrease in sold production for 97 products. In the divisions *Food products* and *Beverages* production decreased of fruit wines (by 22.6%), sweetened or flavoured waters (by 17.5%), fresh bread (by 16.9%), sugar confectionery containing cocoa (by 16.2%), frozen fruit and nuts (by 13.1%), canned poultry meat (by 11.3%), cured meat products (by 8.1%), frozen salt water fish (by 7.9%), wheat bread (by 6.2%), poultry cuts (by 6.1%), prepared meals and dishes based on meat (by 5.7%), prepared feeds for farm animals (by 5.7%). In the divisions *Wearing apparel* and *Leather and related products* production decreased of men's or boys' shirts (by 26.1%), women's or girls' trousers, overalls and shorts (by 11.2%), footwear with uppers of textile materials (by 11.1%), men's or boys' suits and ensembles (by 9.3%). In the divisions *Wood and products of wood* and *Paper and paper products* production decreased of toilet paper (by 16.1%), testliner-recycled paper for cover layer of corrugated cardboard (by 14.0%), other paper and paperboard for graphic purposes (by 12.8%), fluting paper (by 6.0%), paper and paperboard (by 5.1%). In the divisions *Coke, briquette and refined petroleum products* and *Chemical products* production decreased of asphalt (by 37.6%), potassic fertilizers (by 15.0%), synthetic calcium sulphate (by 12.9%), hair care products (by 10.0%), toilet waters (by 9.1%). In the division *Rubber and plastic products* production decreased of plastic sacks and bags (by 7.4%). In the division *Other non-metallic mineral products* production decreased of bottles of colourless glass of a nominal capacity < 2,5 litres, for beverages and foodstuff (by 26.3%), ceramic ridge tiles (by 15.2%), structural-wall clay hollow bricks (by 12.5%), non-refractory clay building bricks (by 11.8%), flagstones and similar articles of concrete (by 9.9%), ceramic sanitary fixtures (by 8.0%), lime (by 6.6%). In the division *Basic metals* production decreased of refined unwrought lead (by 7.1%), copper and copper alloy bars, rods and profiles (by 6.0%). In the division *Fabricated metal products* production decreased of food cans of tinfoil (by 9.1%). In the divisions *Computer, electronic and optical products* and *Electrical equipment* production decreased of air-cooled transformers (by 17.1%), electric motors and generators (by 8.3%), automatic drying machines for households (by 6.7%), water meters (by 5.5%), automatic washing and washing-drying machines for households (by 5.4%). In the division *Machinery and equipment* production decreased of cash registers (by 21.0%). In the divisions *Motor vehicles* and *Other transport equipment* production decreased of internal combustion engines for vehicles (by 5.2%), rail goods wagons (by 5.1%).

In February 2022, in comparison to January 2022, there was an increase in sold production for 132 products. Compared with the previous month, production increase was recorded for, among others: multiple glazed units (by 133.2%), public transport vehicles (by 121.1%), aluminium doors (by 47.4%), cans other than for preserving food and drink of iron or steel, of a capacity < 50 l (by 42.6%), apple juice (by 39.4%), double glazed units (by 37.6%), calcium-silicate brick (by 36.9%), autoclaved cellular concrete (by 34.9%), ready-mixed concrete (by 32.2%), single-phase current motors (by 31.6%), bicycles (by 31.0%), pick-up balers (by 30.6%), structural-wall tiles of calcium-silicate (by 29.6%), wheat groats and meal (by 28.8%), panty hose and tights (by 28.8%), steel doors (by 27.1%), veneers (by 25.9%), electric ovens for building-in (by 25.2%), machinery for construction, road and drainage work (by 24.3%), canned fish (by 24.2%), passenger cars (by 24.1%), ploughs (by 23.9%), vinegar (by 23.1%), buckwheat groats and meal (by 22.7%), milk and cream powder (by 22.6%), vacuum cleaners (by 22.3%), plastic windows (by 21.8%), machine tools for machining metals (by 21.5%), gypsum plasters (by 21.2%).

In February 2022 in comparison to January 2022, unchanged remained the production of frozen salt water fish fillets.

In the period January – February 2022, compared to the same period of the previous year, an increase in production was recorded for 132 products, among others: woven fabrics of cotton weighing 200 g/m² or less (by 158.5%), structural-floor clay hollow bricks (by 139.7%), bricks made of clay (by 76.1%), flagstones and similar articles of concrete (by 60.0%), men's or boys' jackets and blazers (by 56.6%), sweetened or flavoured waters (by 53.8%), cement (by 53.5%),

prepared meals and dishes based on meat (by 53.5%), table candles (by 51.1%), ready-mixed concrete (by 49.2%), sodium hydroxide in aqueous solution (by 46.3%), paints and varnishes, based on acrylic or vinyl polymers, weight of the solvent more than 50% (by 46.1%), bicycles (by 41.7%), air-cooled transformers (by 41.0%), electric motors and generators (by 40.1%), men's or boys' suits and ensembles (by 40.0%), special fabrics including pile fabrics and terry towelling (by 37.2%), sea-going boats for pleasure or sports (by 34.1%), scarifiers and cultivators (by 33.7%), structural-wall tiles of calcium-silicate (by 32.1%), steel doors (by 32.0%), rail goods wagons (by 30.5%), barley groats and meal (by 27.9%), women's or girls' blouses and shirts (by 27.8%), plates, sheet, film, foil of cellular polymers of styrene (by 24.6%), ceramic ridge tiles (by 24.0%), synthetic calcium sulphate (by 23.3%), men's or boys' trousers, overalls and shorts (by 23.2%), calcium-silicate brick (by 22.9%), multiple glazed units (by 22.0%), factory made mortars (by 21.2%).

In January - February compared with the corresponding period of previous year, production decrease was recorded for, among others: cash registers (by 50.6%), domestic gas cookers with an oven (by 48.5%), vegetable pickles (by 46.8%), polyurethane adhesives (by 37.4%), potassic fertilizers (by 35.9%), frozen salt water fish (by 35.0%), non-coniferous sawnwood (by 34.8%), women's or girls' trousers, overalls and shorts (by 34.4%), asphalt (by 34.2%), plastic doors (by 31.3%), phosphatic fertilizers (by 31.1%), lead-acid accumulators for motor vehicles (by 24.9%), sugar confectionery containing cocoa (by 24.3%), passenger cars (by 24.1%), pick-up balers (by 22.5%), rendered pork fat suitable for consumption (by 20.8%), assembled parquet panels of wood for mosaic floors (by 20.6%), electric cookers including gas-electric cookers (by 20.5%), liquefied propane and butane (by 20.2%), footwear (by 19.5%), edible evaporated salt (by 19.1%), women's or girls' jackets (by 17.7%), woven fabrics of synthetic or artificial filament yarns (by 17.6%), fresh or chilled pig meat (by 17.3%), automatic washing and washing-drying machines for households (by 16.9%), leather of bovine animals (by 16.3%), wooden flooring materials (by 14.7%), sheets and strips of non-alloy steel coated with zinc (by 14.6%), bottles of coloured glass of a nominal capacity < 2,5 litres, for beverages and foodstuff (by 14.2%), poultry cuts (by 13.7%).

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_mc2022.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.