



Warsaw 2022

Production of major industrial products in June 2022



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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 June 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 manufactured production of products retrospectively, by the months of the current and previous year.

Table 3 presents the data on sold production of products in June 2022 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, by 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.

Executive summary

In June 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 233 products and assortment groups. In June 2022, manufactured production of 146 items and sold production of 86 items was higher than in June 2021. Decrease was noted on manufactured production for 170 items and on sold production for 141 items. Data on production of footwear with uppers of textile materials, plates, sheet, film, foil of cellular polymers of styrene, ploughs and field sowers 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 June 2022 in comparison to June 2021**, in the division *Food products* production decreased e.g. of frozen salt water fish (by 40.0%), frozen salt water fish fillets (by 25.2%), rye flour (by 24.5%), frozen fruit and nuts (by 16.0%). In the divisions *Wearing apparel* and *Leather and related products* production decreased e.g. of panty hose and tights (by 36.2%), footwear with leather uppers (by 26.4%), unsplit bovine leather for shoes (by 17.6%). In the division *Wood and products of wood* production decreased e.g. of particle and similar boards of wood and ligneous materials (by 22.5%), assembled parquet panels of wood for mosaic floors (by 21.4%), doors of wood (by 20.7%), coniferous sawnwood (by 11.5%). In the division *Chemical products* production decreased e.g. of toluene (by 99.2%), acetic acid (by 48.2%), paints and varnishes, based on acrylic or vinyl polymers, weight of the solvent more than 50% (by 45.7%), phenol (by 41.3%). In the division *Rubber and plastic products* production decreased e.g. of rigid tubes, pipes and hoses of polymers of vinyl chloride (by 19.3%), plastic boxes, cases, crates (by 13.9%), rigid tubes, pipes and hoses of polymers of propylene (by 13.1%). In the division *Other non-metallic mineral products* production decreased e.g. of bottles of colourless glass of a nominal capacity < 2,5 litres, for beverages and foodstuff (by 17.4%), factory made mortars (by 10.4%), bricks made of clay (by 8.4%). In the division *Basic metals* production decreased e.g. of brass (by 83.7%), seamless tubes (by 30.5%), steel rods and flat bars (by 30.1%), hot rolled steel products (by 28.1%). In the division *Fabricated metal products* production decreased e.g. of cans other than for preserving food and drink of iron or steel, of a capacity < 50 l (by 32.1%), radiators for central heating of iron or steel (by 26.4%). In the divisions *Computer, electronic and optical products* and *Electrical equipment* production decreased e.g. of filament lamps (by 79.2%), domestic gas cookers with an oven (by 79.2%), LED light bulbs (by 73.2%), food grinders, mixers and juice extractors (by 71.4%), gas-electric cookers (by 56.9%), household refrigerators and freezers (by 50.9%), radio receivers of a kind used in motor vehicles (by 50.1%). In the division *Machinery and equipment* production decreased e.g. of cash registers (by 76.2%), concrete mixers (by 72.6%), kitchen and bathroom mixing valves (by 72.3%), loaders for general use in agriculture (by 27.3%).

Compared with the corresponding month of the previous year, in June 2022, production increase was recorded for, among others: bronze (by 298.3%), men's or boys' overcoats and similar articles (by 202.8%), buckwheat groats and meal (by 146.9%), special fabrics including pile fabrics and terry towelling (by 110.1%), edible rock salt (by 102.6%), soap and organic surface-active products and preparations for use as soap (by 90.2%), sodium hydroxide in aqueous solution (by 86.4%), rail goods wagons (by 69.0%), vegetable pickles (by 64.0%), textile floor coverings (by 57.6%), prepared meals and dishes based on meat (by 57.2%), vehicle compression-ignition engines (by 54.9%), table candles (by 49.4%), non-woven glass fibre webs,

felts, mattresses and boards (by 48.9%), agricultural tractors (by 48.2%), single-phase current motors (by 46.2%), barley groats and meal (by 46.1%), sea-going boats for pleasure or sports (by 45.9%).

In comparison with June of the previous year, production of beer and fibreboards of wood or other ligneous materials was at the same level.

Compared to May 2022, in June 2022 manufactured production decreased for 206 products. In the divisions coverings energy raw materials production decreased of petroleum oils and oils obtained from bituminous minerals (by 36.2%), natural gas (by 7.1%), lignite (by 5.1%). In the division *Food products* production decreased of barley groats and meal (by 31.3%), frozen salt water fish (by 25.8%), frozen salt water fish fillets (by 24.6%), pasta (by 19.9%). In the division *Wearing apparel* production decreased of panty hose and tights (by 29.9%), women's or girls' suits and ensembles (by 26.9%), women's or girls' jackets (by 15.3%). 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 19.3%), particle and similar boards of wood and ligneous materials (by 17.6%), testliner-recycled paper for cover layer of corrugated cardboard (by 13.4%). In the divisions *Coke, briquette and refined petroleum products* and *Chemical products* production decreased of toluene (by 99.0%), light fuel oils (by 49.9%), motor oils (by 35.5%). In the division *Rubber and plastic products* production decreased of plastic floor, wall, ceiling coverings (by 25.6%), rigid tubes, pipes and hoses of polymers of vinyl chloride (by 20.1%), rigid tubes, pipes and hoses of polymers of ethylene (by 14.3%). In the division *Basic metals* production decreased of hot-rolled steel rods and bars (by 40.0%), hot rolled steel products (by 36.3%), brass (by 34.0%). In the division *Fabricated metal products* production decreased of food cans of tinfoil (by 18.9%), cans other than for preserving food and drink of iron or steel, of a capacity < 50 l (by 18.5%). In the division *Electrical equipment* production decreased of domestic gas cookers with an oven (by 52.8%), household refrigerators and freezers (by 41.1%), filament lamps (by 32.9%). In the division *Machinery and equipment* production decreased of concrete mixers (by 62.2%), machine tools for machining metals (by 13.7%), ball bearings (by 13.0%). In the divisions *Motor vehicles* and *Other transport equipment* production decreased of bicycles (by 19.6%), passenger cars (by 12.3%).

Compared with the previous month, production increase was recorded for 111 products, among others for: frozen fruit and nuts (by 335.7%), sodium hydroxide, solid (by 222.8%), food grinders, mixers and juice extractors (by 147.6%), men's or boys' overcoats and similar articles (by 135.7%), unsplit bovine leather for shoes (by 97.8%), bricks made of clay (by 72.8%), women's or girls' overcoats and similar articles (by 59.5%), soap and organic surface-active products and preparations for use as soap (by 52.0%), ceramic ridge tiles (by 49.2%), public transport vehicles (by 39.2%), single-phase current motors (by 38.9%).

In June 2022 compared with the previous month, production of paints and varnishes, based on acrylic or vinyl polymers, weight of the solvent more than 50% remained at the same level as in the previous month.

Summarizing the production in the period January-June 2022, in the divisions covering energy raw materials production increased of lignite (by 10.3%). In the division *Food products* production increased of sugar (by 82.4%), buckwheat groats and meal (by 67.8%), barley groats and meal (by 67.5%), prepared meals and dishes based on meat (by 53.5%), apple juice (by 40.9%), canned poultry meat (by 38.5%). In the division *Wearing apparel* production increased of women's or girls' suits and ensembles (by 141.7%), men's or boys' overcoats and similar articles (by 63.2%), men's or boys' shirts (by 42.9%), men's or boys' suits and ensembles (by 35.1%), women's or girls' jackets (by 16.8%). In the division *Paper and paper products* production increased of sanitary towels and similar articles of paper pulp, paper and cellulose wadding (by 41.4%), toilet paper (by 20.3%), napkins and napkin liners for babies (by 17.0%), sacks and bags of paper (by 12.5%). In the division *Chemical products* production increased of

butadiene-1,3 (by 161.5%), ethylene (by 147.2%), polyethylene (by 146.5%), polyvinyl chloride not mixed with any other substances (by 110.5%), propylene (by 109.6%). In the division *Rubber and plastic products* production increased of tyres for agricultural machinery (by 26.5%), plastic floor, wall, ceiling coverings (by 17.2%). In the division *Other non-metallic mineral products* production increased of ceramic ridge tiles (by 29.7%), building bituminous felt (by 24.0%), non-woven glass fibre webs, felts, mattresses and boards (by 20.1%), multiple glazed units (by 16.6%). In the division *Basic metals* production increased of copper plates, sheets and strip (by 25.2%), welded tubes (by 20.6%), steel tubes (by 16.9%), wire of steel (by 12.5%). In the division *Fabricated metal products* production increased of food cans of tinsplate (by 28.2%), steel doors (by 21.7%), aluminium doors (by 13.5%), conductors not electrically insulated (by 10.6%). In the divisions *Computer, electronic and optical products* and *Electrical equipment* production increased of telephone sets, excluding cellular phones (by 39.9%), electric motors and generators, excluding traction motors (by 32.0%), air-cooled transformers (by 27.6%), insulated power cables (by 18.0%), computers (by 13.0%). In the division *Machinery and equipment* production increased of machinery for construction, road and drainage work (by 40.2%), agricultural tractors (by 37.2%), machining centres, unit construction machines and multi-station transfer machines for working metal (by 11.5%), scarifiers and cultivators (by 8.3%). In the division *Other transport equipment* production increased of sea-going boats for pleasure or sports (by 35.6%), rail goods wagons (by 21.2%), city/touring bicycles (by 16.8%).

In January-June 2022 compared with the corresponding period of the previous year, production decrease was recorded for 134 products. In the divisions *Food products* and *Beverages* production decreased e.g. of frozen salt water fish (by 14.4%), rendered pork fat suitable for consumption (by 11.5%), fruit wines (by 8.7%), rye flour (by 6.6%), vodka (by 6.6%), sugar confectionery containing cocoa (by 4.5%). In the divisions *Wearing apparel* and *Leather and related products* production decreased e.g. of unsplit bovine leather for shoes (by 35.4%), footwear with leather uppers (by 31.3%), women's or girls' overcoats and similar articles (by 25.4%), women's or girls' dresses and skirts (by 15.4%), women's or girls' blouses and shirts (by 13.8%), hosiery (by 10.7%). In the division *Wood and products of wood* production decreased e.g. of assembled parquet panels of wood for mosaic floors (by 17.2%), particle and similar boards of wood and ligneous materials (by 10.4%), doors of wood (by 9.8%), non-coniferous sawnwood (by 7.6%), wooden flooring materials (by 6.0%). In the division *Chemical products* production decreased e.g. of acetic acid (by 57.9%), toluene (by 30.0%), phosphatic fertilizers (by 24.9%), potassic fertilizers (by 24.0%), paints and varnishes, based on acrylic or vinyl polymers, weight of the solvent more than 50% (by 22.4%), sodium hydroxide, solid (by 19.8%). In the division *Rubber and plastic products* production decreased e.g. of plastic doors (by 18.7%), tyres for tractors (by 10.9%), plastic boxes, cases, crates (by 9.3%). In the division *Other non-metallic mineral products* production decreased e.g. of bricks made of clay (by 13.1%), factory made mortars (by 4.5%). In the division *Basic metals* production decreased e.g. of brass (by 80.2%), bronze (by 55.7%), railway or tramway steel rails (by 11.1%), cold-rolled steel sheet width 600 mm or wider (by 9.3%), flat cold-rolled steel products width less than 600 mm (by 9.2%). In the division *Fabricated metal products* production decreased e.g. of radiators for central heating of iron or steel (by 14.1%), cans other than for preserving food and drink of iron or steel, of a capacity < 50 l (by 13.1%). In the divisions *Computer, electronic and optical products* and *Electrical equipment* production decreased e.g. of filament lamps (by 67.1%), LED light bulbs (by 56.2%), domestic gas cookers with an oven (by 55.0%), food grinders, mixers and juice extractors (by 54.0%), radio receivers of a kind used in motor vehicles (by 42.3%), electricity meters (by 36.1%), gas-electric cookers (by 35.8%), lead-acid accumulators for motor vehicles (by 27.3%). In the division *Machinery and equipment* production decreased e.g. of cash registers (by 64.9%), concrete mixers (by 19.1%), kitchen and bathroom mixing valves (by 18.4%), pick-up straw and fodder balers (by 14.7%), loaders for general use in agriculture (by 14.2%). In the division *Motor vehicles* production decreased e.g. of passenger cars (by 23.3%), public transport

vehicles (by 11.0%). In the division *Furniture* production decreased e.g. of kitchen furniture of wood (by 7.6%), wooden furniture for the dining-room and living-room (by 6.3%).

In the period January-June 2022 compared with the corresponding period of the previous year, production of sheets and strips of non-alloy steel, coated with zinc and lorries and road tractors for semi-trailers unchanged.

SOLD PRODUCTION

Indicators of the dynamics of sold industrial products were different in various sectors. **In June 2022 in comparison to June 2021**, in the divisions *Food products* and *Beverages* production decreased of frozen salt water fish (by 46.4%), frozen salt water fish fillets (by 33.8%), rye flour (by 17.7%), wheat groats and meal (by 14.6%), unsweetened, non-flavoured mineral and aerated waters (by 14.1%). In the divisions *Wearing apparel* and *Leather and related products* production decreased of panty hose and tights (by 29.5%), leather of bovine animals (by 26.9%). In the division *Wood and products of wood* decreased production of sawnwood (by 22.0%), assembled parquet panels of wood for mosaic floors (by 20.7%), doors of wood (by 20.5%), assembled parquet panels of wood other than for mosaic floors (by 20.4%). In the divisions *Coke, briquette and refined petroleum products* and *Chemical products* production decreased of paints and varnishes, based on acrylic or vinyl polymers, weight of the solvent more than 50% (by 48.4%), potassic fertilizers (by 39.1%), liquefied propane and butane (by 22.0%), paints and varnishes, based on polyesters, weight of the solvent not more than 50% (by 21.2%), phosphatic fertilizers (by 21.1%). In the division *Rubber and plastic products* production decreased of rigid tubes, pipes and hoses of polymers of vinyl chloride (by 21.0%), rigid tubes, pipes and hoses of polymers of propylene (by 19.0%), rigid tubes, pipes and hoses of polymers of ethylene (by 12.9%). In the division *Other non-metallic mineral products* production decreased of ceramic ridge tiles (by 35.1%), ceramic tiles and flags (by 23.2%), bricks made of clay (by 23.0%), structural-wall clay hollow bricks (by 21.6%), boards, sheets and similar articles of plaster, faced or reinforced with paper only (by 20.0%). In the division *Basic metals* production decreased of steel rods and flat bars (by 36.2%), copper and copper alloy bars, rods and profiles (by 33.5%), sheets and strips of non-alloy steel coated with zinc (by 23.1%), hot rolled steel products (by 21.6%), refined unwrought lead (by 20.4%). In the divisions *Computer, electronic and optical products* and *Electrical equipment* production decreased of domestic gas cookers with an oven (by 55.0%), electricity meters (by 47.2%), electric cookers including gas-electric cookers (by 34.0%), television receivers (by 33.3%), automatic drying machines for households (by 32.4%), electric ovens for building-in (by 31.9%), vacuum cleaners (by 31.2%). In the division *Machinery and equipment* production decreased of cash registers (by 72.4%), loaders for general use in agriculture (by 32.1%).

Compared with the corresponding month of the previous year, production increase was recorded for, among others: special fabrics including pile fabrics and terry towelling (by 120.4%), rail goods wagons (by 95.9%), sodium hydroxide in aqueous solution (by 87.6%), women's or girls' blouses and shirts (by 82.4%), polyurethane adhesives (by 51.6%), prepared meals and dishes based on meat (by 45.7%), synthetic calcium sulphate (by 44.8%), sanitary towels and similar articles of paper pulp, paper and cellulose wadding (by 42.6%), single-phase current motors (by 40.3%), vehicle compression-ignition engines (by 39.7%), table candles (by 39.5%), edible evaporated salt (by 31.9%).

In comparison with the corresponding month of the previous year, production of gypsum plasters was at the same level.

Compared to May, in June 2022 sold production decreased for 146 products. In the division *Food products* production decreased of frozen salt water fish fillets (by 41.6%), frozen salt water fish

(by 35.5%), wheat groats and meal (by 34.4%), buckwheat groats and meal (by 28.4%), sugar confectionery containing cocoa (by 27.2%), canned poultry meat (by 18.6%). In the division *Wearing apparel* production decreased of panty hose and tights (by 40.4%), men's or boys' jackets and blazers (by 19.5%), men's or boys' suits and ensembles (by 18.6%). 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 30.8%), sawnwood (by 21.9%), sacks and bags of paper (by 12.7%), assembled parquet panels of wood other than for mosaic floors (by 10.2%). In the divisions *Coke, briquette and refined petroleum products* and *Chemical products* production decreased of motor oils (by 28.7%), potassic fertilizers (by 24.5%), phosphatic fertilizers (by 14.9%). In the division *Rubber and plastic products* production decreased of rigid tubes, pipes and hoses of polymers of vinyl chloride (by 19.3%), rigid tubes, pipes and hoses of polymers of ethylene (by 14.9%), rigid tubes, pipes and hoses of polymers of propylene (by 14.8%). In the division *Other non-metallic mineral products* production decreased of structural-floor clay hollow bricks (by 78.3%), bricks made of clay (by 37.8%), building bituminous felt (by 21.0%), ceramic ridge tiles (by 14.9%). In the division *Basic metals* production decreased of steel rods and flat bars (by 24.9%), copper and copper alloy bars, rods and profiles (by 19.2%), hot rolled steel products (by 15.8%), hot-rolled steel rods and bars (by 15.3%). In the divisions *Computer, electronic and optical products* and *Electrical equipment* production decreased of vacuum cleaners (by 23.1%), electric ovens for building-in (by 17.6%), television receivers (by 10.9%). In the division *Other transport equipment* production decreased of bicycles (by 26.5%), sea-going boats for pleasure or sports (by 12.8%).

Compared with the previous month, production increase was recorded for 79 products, among others for: women's or girls' blouses and shirts (by 136.3%), leather of bovine animals (by 46.7%), prepared meals and dishes based on vegetables (by 39.2%), public transport vehicles (by 35.8%), fruit wines (by 33.4%), pick-up straw and fodder balers (by 32.7%), vodka (by 32.3%), sodium hydroxide in aqueous solution (by 31.8%), nitrogenous fertilizers (by 29.5%), sulphuric acid (by 28.2%), non-alcoholic beer (by 25.2%), lead-acid accumulators for motor vehicles (by 23.1%), gas meters (by 21.4%), rail goods wagons (by 20.8%), men's or boys' trousers, overalls and shorts (by 20.5%).

In June 2022 in comparison to May, unchanged remained the production of boards, sheets, panels, tiles and similar articles of plaster or of compositions based on plaster, not faced or reinforced with paper or paperboard only and automatic drying machines.

In January - June compared with the corresponding period of the previous year, production increase was recorded for 120 products. In the divisions *Food products* and *Beverages* production increased of barley groats and meal (by 42.2%), prepared meals and dishes based on meat (by 36.7%), buckwheat groats and meal (by 34.1%), canned poultry meat (by 30.9%), apple juice (by 21.9%), margarine and spreads (by 17.6%), sweetened or flavoured waters (by 16.8%), wheat groats and meal (by 15.1%), edible evaporated salt (by 14.3%), wheat bread (by 14.2%). In the divisions *Wearing apparel* and *Leather and related products* production increased of men's or boys' jackets and blazers (by 39.4%), women's or girls' jackets (by 29.1%), women's or girls' blouses and shirts (by 24.7%), men's or boys' shirts (by 22.8%), men's or boys' suits and ensembles (by 18.7%), men's or boys' trousers, overalls and shorts (by 10.3%). In the divisions *Wood and products of wood* and *Paper and paper products* production increased of sanitary towels and similar articles of paper pulp, paper and cellulose wadding (by 40.1%), napkins and napkin liners for babies (by 25.5%), toilet paper (by 19.6%), sacks and bags of paper (by 10.7%), windows of wood (by 8.1%). In the divisions *Coke, briquette and refined petroleum products* and *Chemical products* production increased of sodium hydroxide in aqueous solution (by 53.2%), synthetic calcium sulphate (by 35.3%), plastics (by 20.2%), diesel oils (by 17.3%), toilet waters (by 15.6%), motor oils (by 10.4%), polyurethane adhesives (by 9.3%), motor gasoline (by 8.3%). In the division *Rubber and plastic products* production increased of plastic floor, wall,

ceiling coverings (by 16.0%), plastic windows (by 5.6%). In the division *Other non-metallic mineral products* production increased of bricks made of clay (by 28.1%), building bituminous felt (by 16.6%), multiple glazed units (by 16.6%), bottles of colourless glass of a nominal capacity < 2,5 litres, for beverages and foodstuff (by 10.9%), ceramic ridge tiles (by 8.9%), ready-mixed concrete (by 8.1%), boards, sheets and similar articles of plaster, other than faced or reinforced with paper only (by 7.2%), products of heat insulation of mineral wools (by 6.3%). In the division *Basic metals* production increased of steel tubes (by 15.8%), copper wire (by 5.5%), wire of steel (by 1.3%). In the division *Fabricated metal products* production increased of aluminium doors (by 17.1%), aluminium windows (by 16.1%), steel doors (by 14.9%). In the divisions *Computer, electronic and optical products* and *Electrical equipment* production increased of single-phase current motors (by 32.8%), electric motors and generators, excluding traction motors (by 26.6%), air-cooled transformers (by 23.5%), insulated wires and conductors (by 14.7%), multi-phase current motors, excluding traction motors (by 7.6%), water meters (by 6.8%). In the division *Machinery and equipment* production increased of machinery for construction, road and drainage work (by 10.2%), scarifiers and cultivators (by 6.2%). In the divisions *Motor vehicles* and *Other transport equipment* production increased of sea-going boats for pleasure or sports (by 26.7%), rail goods wagons (by 22.1%), vehicle compression-ignition engines (by 18.3%), bicycles (by 7.3%). In the division *Furniture* production increased of wooden bedroom furniture (by 11.1%), seats convertible into beds (by 5.7%).

In January - June compared with the corresponding period of the previous year, production decrease was recorded for 107 products. In the divisions *Food products* and *Beverages* production decreased of frozen salt water fish (by 20.8%), vegetable pickles (by 18.6%), sugar confectionery containing cocoa (by 13.6%), fruit wines (by 10.6%), fresh or chilled pig meat (by 10.1%), rendered pork fat suitable for consumption (by 8.9%), frozen fruit and nuts (by 7.8%), rye flour (by 7.3%). In the divisions *Wearing apparel* and *Leather and related products* production decreased of leather of bovine animals (by 31.5%), women's or girls' trousers, overalls and shorts (by 12.9%), hosiery (by 11.4%), women's or girls' dresses and skirts (by 4.0%). In the divisions *Wood and products of wood* and *Paper and paper products* production decreased of non-coniferous sawnwood (by 24.7%), assembled parquet panels of wood for mosaic floors (by 13.7%), assembled parquet panels of wood other than for mosaic floors (by 13.3%), sawnwood (by 9.4%), doors of wood (by 9.2%), coniferous sawnwood (by 8.1%), wooden flooring materials (by 6.8%). In the divisions *Coke, briquette and refined petroleum products* and *Chemical products* production decreased of potassic fertilizers (by 26.9%), paints and varnishes, based on acrylic or vinyl polymers, weight of the solvent more than 50% (by 24.9%), phosphatic fertilizers (by 23.8%), liquefied propane and butane (by 22.7%), nitrogenous fertilizers (by 22.7%), pesticides (by 18.9%), paints and varnishes, based on acrylic or vinyl polymers in an aqueous medium (by 18.9%), paints and varnishes other than colodium containing in solution more than 50% of solvent by weight (by 16.2%), asphalt (by 9.8%), paints and varnishes, based on polyesters, weight of the solvent not more than 50% (by 8.7%). In the division *Rubber and plastic products* production decreased of plastic doors (by 18.6%), plastic boxes, cases, crates (by 5.4%), rigid tubes, pipes and hoses of polymers of vinyl chloride (by 4.8%). In the division *Other non-metallic mineral products* production decreased of ceramic tiles and flags (by 9.5%), boards, sheets and similar articles of plaster, faced or reinforced with paper only (by 8.7%), float glass and surface ground glass (by 8.4%), structural-wall clay hollow bricks (by 7.0%). In the division *Basic metals* production decreased of sheets and strips of non-alloy steel coated with zinc (by 11.2%), flat cold-rolled steel products width less than 600 mm (by 8.0%). In the division *Fabricated metal products* production decreased of cans other than for preserving food and drink of iron or steel, of a capacity < 50 l (by 18.9%), iron or steel reservoirs and similar containers for solids, of a capacity > 300 litres (by 4.3%). In the divisions *Computer, electronic and optical products* and *Electrical equipment* production decreased of domestic gas cookers with an oven

(by 56.3%), electricity meters (by 38.9%), lead-acid accumulators for motor vehicles (by 29.4%), gas meters (by 25.2%), vacuum cleaners (by 21.8%), automatic drying machines for households (by 15.0%), electric ovens for building-in (by 12.9%), television receivers (by 9.1%). In the division *Machinery and equipment* production decreased of cash registers (by 65.4%), loaders for general use in agriculture (by 18.7%), pick-up straw and fodder balers (by 16.5%). In the divisions *Motor vehicles* and *Other transport equipment* production decreased of passenger cars (by 26.1%), public transport vehicles (by 8.4%), containers for freight transport (by 6.9%). In the division *Furniture* production decreased of kitchen furniture of wood (by 8.6%), wooden furniture for the dining-room and living-room (by 6.4%).

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.