

Statistical bulletin

# Index of Production, UK: December 2016

Movements in the volume of production for the UK production industries: manufacturing, mining and quarrying, energy supply, and water and waste management. Figures are seasonally adjusted.



Contact:  
Alaa Al-Hamad  
[indexofproduction@ons.gsi.gov.uk](mailto:indexofproduction@ons.gsi.gov.uk)  
+44 (0) 1633 455648

Release date:  
10 February 2017

Next release:  
10 March 2017

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# 1 . Main points

- The Index of Production for Quarter 4 (Oct to Dec) 2016 was estimated to have increased by 0.3%, revised upwards from 0.0% in the [Gross domestic product preliminary estimate: Oct to Dec 2016](#).
- Manufacturing provided the largest contribution to quarterly growth, largely due to a strong increase in the volatile pharmaceuticals industry.
- In December 2016, total production was estimated to have increased by 1.1% compared with November 2016; the only contribution to the increase came from manufacturing.
- Total production output for 2016 as a whole is estimated to have increased by 1.2%, with manufacturing providing the largest contribution, which increased by 0.7%.

## 2 . Things you need to know about this release

The Index of Production (IoP) is an important economic indicator and one of the short-term measures of economic activity in the UK. It is used in the compilation of gross domestic product (GDP); the production industries' weight accounts for 14.6% of the [output approach to the measurement of GDP](#).

The IoP measures the UK output in the mining and quarrying; manufacturing; energy supply; and water supply and waste management industries. The IoP estimates are mainly based on the Monthly Business Survey (MBS) of approximately 6,000 businesses. For the mining and quarrying and energy supply sectors, and 2 manufacturing industries namely coke and refined petroleum and basic iron and steel, we receive volume data from the [Department for Business, Energy and Industrial Strategy \(BEIS\)](#) and the [International Steel Statistics Bureau \(ISSB\)](#) respectively. Unless otherwise stated all estimates included in this release are based on seasonally adjusted data. The current price non-seasonally adjusted estimates of industries collected by the MBS can be found in today's publication of [TOPSI: Production and services turnover](#).

As part of the short-term economic indicators theme day, IoP produces the [proportion of turnover from exports](#), by industry. [Level of exports \(£ millions\)](#) is published in TOPSI. However, this is not always comparable with UK trade statistics, for a number of reasons. These include, but are not limited to:

- different data sources – IoP and TOPSI are based on a survey of businesses; UK trade in goods uses administrative data collected by HM Revenue and Customs (HMRC)
- different concepts being measured – IoP reports the value of exports as a proportion of the industry's turnover; UK trade in goods reports the change in ownership between the UK and other countries
- time lag – there can be time lags between the sale of a product reported in IoP and the movements of that product reported by UK Trade

Further information on UK trade and how their data are compiled can be found in the 'Things you need to know' section of the [UK trade](#) release.

This release has a revisions period back to January 2016. Revisions can be made for a variety of reasons, the most common include:

- late responses to surveys and administrative sources, or changes to original returns
- forecasts being replaced by actual data
- revisions to seasonal adjustment factors, which are re-estimated every month and reviewed annually

This revisions period is consistent with the National Accounts [revisions policy](#).

Care should be taken when using the month-on-month growth rates as data can often be volatile; longer-term growth rates and examination of the time series allow for better interpretation of the statistics.

Summary information can be found in the [Quality and Methodology Information](#) report.

### 3 . Index of Production (IoP) main figures and the longer-term trend

Table 1 shows the growth rates and contributions for the IoP and main sectors for December 2016. The monthly estimate of total production increased by 1.1%. There were mixed performances across the 4 production sectors; manufacturing provided all the growth, increasing by 2.1%.

The 3 months-on-previous 3 months estimate of total production increased by 0.3% in December 2016, with increases in 3 of the 4 main sectors. The largest contribution came from manufacturing, with growth of 1.2%.

**Table 1: Index of Production headline growth rates and contributions, December 2016, UK**

Description <sup>1</sup>	% of production <sup>2</sup>	Month on previous month growth (%)	Contribution to production (% points)	Most recent 3 months on previous 3 months growth (%)	Contribution to production (% points)
IoP	100.0	1.1	1.09	0.3	0.34
Sector B	12.0	-1.1	-0.14	-7.0	-0.93
Sector C	70.0	2.1	1.43	1.2	0.83
Sector D	10.4	-2.0	-0.19	3.1	0.29
Sector E	7.5	0.0	0.00	2.0	0.16

Source: Office for National Statistics

Notes:

1. IoP Total Index of Production; Sector B mining and quarrying; and within this, Division 06 oil and gas extraction; Sector C manufacturing; Sector D electricity, gas, steam and air conditioning; and Sector E water supply, sewerage and waste management.

2. "% of production" column does not add up to 100 due to rounding.

**Figure 1: Seasonally adjusted index of manufacturing, December 2006 to December 2016, UK**

Figure 1: Seasonally adjusted index of manufacturing,  
December 2006 to December 2016, UK



**Source: Primarily Monthly Business Survey (Production and Services) - Office for National Statistics**

**Notes:**

1. Quarter 1 (Jan to Mar) 2008 to Quarter 2 (Apr to June) 2009 – UK economic downturn.
2. 24 Jun 2016 – the result of the EU referendum was announced.

Figure 1 shows that both the Index of Production and Index of Manufacturing followed a broadly upward trend following the economic downturn. Growth was more pronounced from the beginning of 2010, as the economy recovered, before a slight downturn during 2012. Since then, both production and manufacturing output have steadily risen but remain well below their level reached in the pre-downturn gross domestic product (GDP) peak in Quarter 1 (Jan to Mar) 2008 by 7.6% and 4.2% respectively.

When examining the production and manufacturing 3 months-on-previous 3 months growth rates, their pre-downturn peak was in the 3 months to February 2008. In the 3 months to December 2016, production and manufacturing were 8.1% and 4.7% lower when compared with the pre-downturn peak in February 2008.

## 4 . What is contributing to the quarterly increase?

The largest contribution to the increase of 0.3% in the 3 months-on-previous 3 months to December 2016 came from manufacturing, which rose by 1.2%. The increase of 1.2% in manufacturing was mainly due to a large growth of 9.8% in pharmaceuticals, which can be highly erratic. The energy supply and water supply sectors provided additional upward pressure.

This growth is largely offset by a decrease of 7.0% in the mining and quarrying sector mainly due to decreased oil and gas output, as the [Buzzard oil field](#) was shut down for maintenance during October.

**Table 2: Growths and contributions to production, 3 months-on-previous 3 months, December 2016, UK**

Sector	Summary description	3 months on previous 3 months growth (percentage)	Contribution to production (percentage points)
IoP	Index of Production	0.3	0.34
Sector B	Total Mining and Quarrying	-7.0	-0.93
5	Coal and Lignite	1.9	0.00
6	Crude petroleum and Natural gas	-8.1	-0.90
789	Other mining and quarrying	-1.5	-0.03
Sector C	Total Manufacturing	1.2	0.83
CA	Food, beverages and tobacco	-0.1	-0.01
CB	Textiles and leather products	-2.1	-0.05
CC	Wood, paper and printing	0.9	0.04
CD	Coke and petroleum	3.9	0.03
CE	Chemical products	-0.7	-0.03
CF	Pharmaceutical products	9.8	0.53
CG	Rubber and plastic products	0.6	0.03
CH	Metal products	1.1	0.09
CI	Computer, electronic and optical	2.3	0.08
CJ	Electrical equipment	4.6	0.08
CK	Machinery and equipment	0.5	0.02
CL	Transport equipment	0.3	0.03
CM	Other manufacturing and repair	-0.6	-0.04
Sector D	Total Electricity and Gas	3.1	0.29
35.1	Electric power generation, transmission and distribution	0.7	0.05
35.2-3	Manufacture of gas; distribution of gaseous fuels through mains; steam and aircon supply	8.2	0.24
Sector E	Total Water	2.0	0.16
36	Water collection, treatment and supply	0.7	0.02
37	Sewerage	3.2	0.07
38	Waste collection, treatment and disposal activities; materials recovery	2.0	0.07
39	Remediation activities and other waste management services	2.0	0.00

Source: Office for National Statistics

## 5 . What is contributing to the month-on-month increase?

The monthly estimate of total production increased by 1.1% in December 2016 (Table 3). This followed an increase of 2.0% in the previous month. The increase in total production was due to broad-based increases in manufacturing. Pharmaceuticals (which can be highly erratic) provided the largest contribution to the growth, increasing by 8.3%. Other large contributions to the increase came from basic metals and other manufacturing and repair not elsewhere classified, which increased by 4.5% and 3.7% respectively.

In contrast, the electricity, gas, steam and air conditioning sector provided the largest downward contribution to IoP, with both sub-sectors providing a similar downward contribution. Feedback from the Department for Business, Energy and Industrial Strategy (BEIS) suggested the increase in temperature (from 4.9 degrees Celsius to 5.9 degrees Celsius (source: [Met Office](#)) between November and December was a contributing factor to the decrease.

**Table 3: Growths and contributions to production, month-on-previous month, December 2016, UK**

Sector	Summary description	Month on previous month growth (percentage)	Contribution to production (percentage points)
IoP	Index of Production	1.1	1.09
Sector B	Total Mining and Quarrying	-1.1	-0.14
5	Coal and Lignite	-10.2	0.00
6	Crude petroleum and Natural gas	-1.1	-0.11
789	Other mining and quarrying	-1.4	-0.03
Sector C	Total Manufacturing	2.1	1.43
CA	Food, beverages and tobacco	1.0	0.11
CB	Textiles and leather products	2.3	0.05
CC	Wood, paper and printing	-0.1	-0.01
CD	Coke and petroleum	-4.3	-0.04
CE	Chemical products	0.7	0.03
CF	Pharmaceutical products	8.3	0.49
CG	Rubber and plastic products	-0.5	-0.03
CH	Metal products	4.5	0.35
CI	Computer, electronic and optical	3.7	0.13
CJ	Electrical equipment	-1.9	-0.04
CK	Machinery and equipment	1.0	0.05
CL	Transport equipment	0.9	0.09
CM	Other manufacturing and repair	3.7	0.24
Sector D	Total Electricity and Gas	-2.0	-0.19
35.1	Electric power generation, transmission and distribution	-1.6	-0.11
35.2-3	Manufacture of gas; distribution of gaseous fuels through mains; steam and aircon supply	-2.7	-0.09
Sector E	Total Water	0.0	0.00
36	Water collection, treatment and supply	0.3	0.01
37	Sewerage	-0.2	0.00
38	Waste collection, treatment and disposal activities; materials recovery	0.0	0.00
39	Remediation activities and other waste management services	-1.8	0.00

Source: Office for National Statistics



## 6 . What is contributing to the month-on-same-month a year ago increase?

Table 4 shows that in December 2016 compared with December 2015, total production output increased by 4.3%. All main sectors increased, with the largest contribution provided by manufacturing. Within manufacturing, pharmaceuticals, basic metals and transport equipment were the main contributors to growth. The increased level (£ millions) of exports compared with the same month on a year ago was a factor in the increases in pharmaceuticals and motor vehicles, trailers and semi-trailers within transport equipment. The non-seasonally adjusted level data for turnover and exports (£ millions) for both of these industries as well as others collected by Monthly Business Survey (MBS) can be seen in [TOPSI: Production and services turnover](#), published alongside this release. We also publish non-seasonally adjusted [export proportions](#) in current prices as part of this release, which also show increased exports in both of these industries.

**Table 4: Growths and contributions to production, month-on-same month a year ago, December 2016, UK**

Sector	Summary description	Month on same month a year ago growth (percentage)	Contribution to production (percentage points)
IoP	Index of Production	4.3	4.33
Sector B	Total Mining and Quarrying	1.9	0.24
5	Coal and Lignite	-42.6	-0.01
6	Crude petroleum and Natural gas	5.0	0.52
789	Other mining and quarrying	-10.8	-0.26
Sector C	Total Manufacturing	4.0	2.84
CA	Food, beverages and tobacco	1.0	0.11
CB	Textiles and leather products	-0.8	-0.02
CC	Wood, paper and printing	1.9	0.10
CD	Coke and petroleum	-4.5	-0.04
CE	Chemical products	0.8	0.03
CF	Pharmaceutical products	19.1	1.06
CG	Rubber and plastic products	2.7	0.16
CH	Metal products	6.3	0.51
CI	Computer, electronic and optical	4.1	0.15
CJ	Electrical equipment	-2.0	-0.04
CK	Machinery and equipment	3.1	0.14
CL	Transport equipment	3.6	0.37
CM	Other manufacturing and repair	4.7	0.31
Sector D	Total Electricity and Gas	9.3	0.84
35.1	Electric power generation, transmission and distribution	1.1	0.07
35.2-3	Manufacture of gas; distribution of gaseous fuels through mains; steam and aircon supply	31.3	0.77
Sector E	Total Water	5.2	0.41
36	Water collection, treatment and supply	2.9	0.06
37	Sewerage	4.9	0.12
38	Waste collection, treatment and disposal activities; materials recovery	7.0	0.23
39	Remediation activities and other waste management services	7.0	0.01

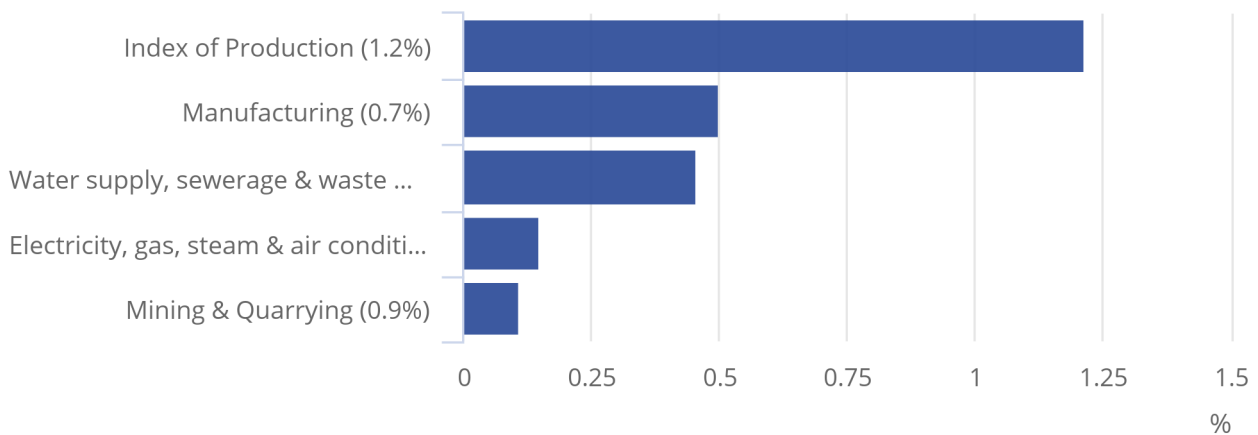
Source: Office for National Statistics

## 7 . Annual summary, 2016

The IoP annual growth for 2016 compared with 2015 was 1.2%. All main sectors support the growth (Figure 2). By order of contribution the largest growth came from manufacturing, 0.7%; water supply, sewerage and waste management, 6.0%; electricity, gas, steam and air conditioning, 1.6%; followed by mining and quarrying, 0.9%.

**Figure 2: Growths and contributions to total production, year-on-year, 2016, UK**

Figure 2: Growths and contributions to total production, year-on-year, 2016, UK

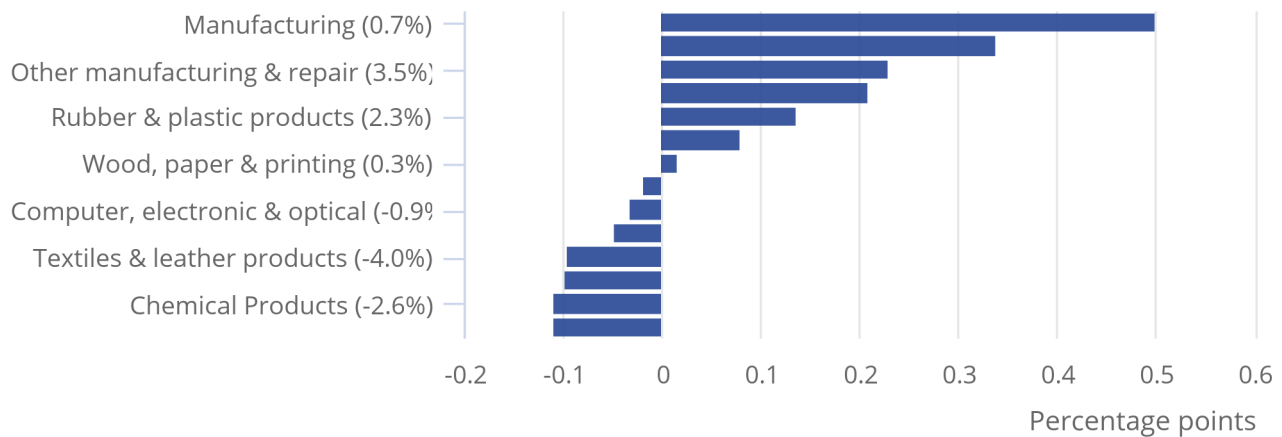


Source: Primarily Monthly Business Survey (Production and Services) - Office for National Statistics

Figure 3 shows that within manufacturing, the largest contribution to the annual growth came from transport equipment; increased exports were reported in the Monthly Business Survey data when compared with 2015. (See [TOPSI exports](#) table 29 for the annual level (£ millions) increases.)

**Figure 3: Growths and contributions to manufacturing, year-on-year, 2016, UK**

Figure 3: Growths and contributions to manufacturing, year-on-year, 2016, UK



Source: Primarily Monthly Business Survey (Production and Services) - Office for National Statistics

## 8 . Links to related statistics

The corresponding price indices used to deflate the Index of Production are published in the monthly publication of [UK producer price inflation](#). Product sales by manufacturers are published on an annual basis in [UK manufacturers' sales by product \(PRODCOM\)](#); estimates are in current prices, unlike the chained volume measures published in the IoP release.

The Index of Production follows the [Eurostat Short Term Statistics \(STS\)](#) regulation for measuring output in production. The latest release of [output in production](#) and [output in manufacturing](#) are available from Eurostat and updated monthly. It should be noted that an accurate comparison cannot be made between our publication and the Eurostat publication, without re-indexing the data to the same base year as Eurostat data are calculated on a 2010 = 100 basis, while UK data are calculated on a 2013 = 100 basis.

Outside of the EU, the US Census Bureau releases [Manufacturing and Trade Inventories and Sales](#). Accurate comparisons cannot be made between our publication and the US Census Bureau release as the UK data are calculated at chained volume indices which takes into account price changes, while the US publication is not adjusted for price changes.

## 9 . What's new?

Please provide us with your feedback on our new style statistical bulletin in our short [online survey](#).

Short-term indicators economic commentary was published alongside this release, presenting new information on economic conditions in December 2016, with data available for output in production, construction and the trade balance.

## 10 . Quality and methodology

The majority of data used to compile the manufacturing sector, and thus the Index of Production (IoP), is collected via the Monthly Business Survey (MBS). The MBS samples around 6,000 businesses every month. The data collected are turnover excluding Value Added Tax (VAT) and exports for some applicable industries. This data is then deflated using [Producer Price Indices \(PPI\)](#). Within the manufacturing sector we also receive direct volume data from: [Department for Business, Energy and Industrial Strategy \(BEIS\)](#) for fuel industries and the [International Steel Statistics Bureau \(ISSB\)](#) for steel industries.

The mining and quarrying sector is mainly comprised of data from BEIS, including volume of oil and gas extraction and coal extraction. The data used to produce the energy sector is also from BEIS and includes energy and gas supply output. A comprehensive list of the IoP source data can be found in the [GDP\(O\) source catalogue](#).

Within the suite of datasets published monthly alongside this release, you will find:

- [Output of the Production Industries](#) (IOP5) publication tables
- [Revisions to Output of the Production Industries](#) (IOP5R)
- [Monthly Business Survey response rates](#) for production industries for this publication
- [Revision triangle](#) – monitors the size of monthly and 3-monthly revisions
- [Export proportions for manufacturing industries](#)
- [Index of Production weights 2013 equals 100](#)
- [Index of Production and sectors to 4 decimal places](#)

The [TOPSI: Production and services turnover](#) is published alongside this release, providing current price estimates for industries collected by the MBS.

The [Index of Production Quality and Methodology Information](#) document contains important information on:

- the strengths and limitations of the data and how it compares with related data
- uses and users of the data
- how the output was created
- the quality of the output including the accuracy of the data

A revised version of this document is available this month.

## Index of Production Release Tables

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# IOP5 Output of the Production Industries

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2013 = 100

Section	Broad industry groups					Main industrial groupings					
	Production industries B+C+D+E	Mining and quarrying B	Manufacturing C	Electricity, gas, steam and air conditioning D	Water supply, sewerage and waste management E	Oil and gas extraction 06	Consumer durables MIG-CD	Consumer non-durables MIG-CND	Capital goods MIG-CAG	Intermediate goods MIG-IG	Energy MG-NRG
Latest weight	1 000.0	120.4	700.4	104.5	74.7	96.2	52.1	208.2	235.8	254.6	232.7
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
2012	100.7	102.8	101.0	100.2	95.9	109.0	101.3	100.9	99.0	100.6	103.6
2013	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2014	101.5	100.6	102.9	94.0	100.7	98.9	106.2	100.5	103.1	105.0	96.5
2015	102.7	109.1	102.7	94.4	104.1	109.6	106.0	100.8	101.7	105.3	101.2
2016	104.0	110.0	103.4	95.8	110.4	114.5	106.6	101.4	103.4	103.8	103.6
2015 Q4	102.6	110.2	102.5	92.9	105.5	111.8	104.9	101.6	101.6	103.6	101.6
2016 Q1	102.4	107.7 †	102.2 †	93.5 †	108.2 †	111.5 †	104.7 †	100.6 †	101.5 †	103.0 †	101.2
Q2	104.7 †	110.2	104.0	98.6	110.4	114.5	106.2	102.7	104.3	103.6	104.6 †
Q3	104.2	115.1	103.2	94.2	110.3	120.8	107.4	100.2	103.7	103.6	105.5
Q4	104.6	107.0	104.4	97.1	112.5	111.1	108.1	102.2	104.0	105.0	103.0
2015 Oct	103.6	112.9	102.8	97.0	104.9	114.3	102.9	102.8	101.3	104.4	104.6
Nov	102.7	110.9	102.4	93.6	104.6	113.0	105.8	100.8	101.1	104.0	102.5
Dec	101.6	106.7	102.2	88.1	106.9	108.1	106.0	101.0	102.4	102.5	97.6
2016 Jan	102.4	105.5 †	102.7 †	92.5 †	108.2 †	107.7 †	105.8 †	100.0 †	102.8 †	104.2 †	99.3 †
Feb	102.2	109.0	101.9	92.2	107.6	113.2	104.4	101.4	99.9	102.7	101.3
Mar	102.7	108.7	102.0	95.8	108.8	113.5	103.8	100.3	101.8	102.2	102.9
Apr	105.1 †	110.1	104.5	100.4	109.4	114.7	106.3	104.3	104.2	103.8	105.2
May	104.4	109.5	103.9	97.7	111.0	107.2	102.2	102.5	103.8	103.8	104.1
Jun	104.4	110.9	103.6	97.7	110.9	115.3	105.0	101.3	104.9	103.1	104.5
Jul	104.5	118.7	102.8	95.3	110.7	125.2	107.0	99.7	103.2	103.4	107.8
Aug	104.2	115.4	103.1	94.8	110.2	121.2	108.0	100.2	103.7	103.4	105.7
Sep	103.9	111.2	103.7	92.6	110.0	116.2	107.3	100.8	104.2	104.0	103.0
Oct	102.8	102.2	102.8	96.8	112.5	104.8	107.6	99.0	103.0	104.0	100.3
Nov	104.9	110.1	104.2	98.2	112.5	114.8	107.1	102.3	103.1	105.1	105.1
Dec	106.0	108.8	106.3	96.3	112.5	113.6	109.5	105.4	105.9	106.0	103.6

## Percentage change, latest year on previous year

2012	-2.7	-10.9	-1.4	-0.9	-0.1	-14.1	-2.6	-3.8	1.3	-	-8.9
2013	-0.7	-2.7	-1.0	-0.2	4.3	-8.2	-1.3	-0.9	1.0	-0.6	-3.5
2014	1.5	0.6	2.9	-6.0	0.7	-1.1	6.2	0.5	3.1	5.0	-3.5
2015	1.2	8.4	-0.2	0.5	3.4	10.8	-0.2	0.3	-1.4	0.3	4.9
2016	1.2	0.9	0.7	1.6	6.0	4.5	0.5	0.6	1.7	-1.4	2.4

## Percentage change, latest month on same month a year ago

2014 Oct	1.3	2.9	2.1	-2.9	-2.1	2.3	8.8	0.8	2.8	2.0	-0.2
Nov	1.6	0.6	3.5	-8.1	-1.4	-1.2	8.4	2.5	4.7	3.3	-4.2
Dec	0.9	-4.3	2.6	-0.2	-4.0	-8.4	12.6	0.1	5.4	3.6	-4.9
2015 Jan	1.2	5.8	1.2	0.2	-4.3	4.9	5.0	3.6	-1.7	1.7	2.4
Feb	0.9	-1.5	0.9	6.8	-2.2	-5.7	0.8	-1.2	1.0	3.6	0.8
Mar	1.4	0.9	1.1	4.4	0.9	-0.7	4.1	1.3	-0.5	2.5	1.3
Apr	1.2	7.6	-0.3	1.9	4.1	9.6	0.9	-2.5	-0.6	1.5	4.9
May	1.7	9.3	0.2	1.3	4.2	12.8	2.7	0.6	-0.7	0.1	5.8
Jun	1.6	11.2	-0.1	-1.3	6.9	15.0	5.4	-0.9	-1.5	1.7	5.4
Jul	0.7	11.1	-1.3	-3.4	8.3	13.9	1.0	0.2	-4.0	-0.3	4.3
Aug	1.8	19.9	-0.8	-3.1	5.5	26.3	-2.4	-1.0	-0.4	-1.0	9.5
Sep	1.5	9.6	-0.3	3.0	3.6	13.2	-4.4	1.0	-0.9	-1.2	7.1
Oct	1.8	9.7	-	3.5	4.0	12.8	-5.0	2.8	-1.8	-0.5	7.5
Nov	0.6	10.9	-1.4	0.4	3.1	16.3	-3.2	-0.5	-3.1	-1.7	7.4
Dec	-0.3	7.3	-1.4	-7.5	7.8	12.7	-5.7	0.2	-2.0	-3.5	1.8
2016 Jan	0.5 †	2.4 †	-0.1 †	-3.5	8.9 †	6.9 †	-3.4 †	-0.9 †	2.2	-2.2 †	1.1 †
Feb	-0.1	8.2	-1.5	-5.1 †	6.1	16.3	-0.5	1.3	-2.6	-4.4	3.8
Mar	-	4.6	-1.6	0.8	6.5	11.1	-3.0	-1.8	-0.1 †	-4.5	4.6
Apr	2.3	1.4	1.3	8.6	4.8	5.0	-	4.9	1.3	-2.8	5.3
May	1.3	-3.6	1.4	3.4	6.4	-2.0	2.2	0.9	2.8	-0.8	0.6
Jun	1.4	0.6	0.9	3.8	4.3	3.7	-4.2	2.7	2.1	-2.8	3.2
Jul	2.1	7.7	1.0	1.4	3.1	13.2	0.4	-0.8	4.2	-1.8	6.3
Aug	0.9	-1.1	0.9	-	5.7	1.2	3.8	0.3	1.9	-1.1	0.2
Sep	0.5	-	0.6	-3.6	6.5	2.9	2.4	-0.8	1.3	-0.4	-0.3
Oct	-0.7	-9.5	-	-0.2	7.3	-8.3	4.6	-3.7	1.7	-0.3	-4.1
Nov	2.2	-0.7	1.7	4.9	7.6	1.6	1.3	1.5	2.1	1.0	2.6
Dec	4.3	1.9	4.0	9.3	5.2	5.0	3.3	4.3	3.4	3.5	6.1

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

† indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.



# IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2013 = 100

Section	Broad industry groups					Main industrial groupings					
	Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	Water supply, sewerage and waste management	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Energy
	B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MG-NRG
Latest weight	1 000.0	120.4	700.4	104.5	74.7	96.2	52.1	208.2	235.8	254.6	232.7
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
<b>Percentage change, latest month on previous month</b>											
2014 Oct	-0.1	1.3	-0.6	0.5	1.1	1.6	-1.2	-0.5	-0.7	-0.8	0.9
Nov	0.4	-2.9	1.0	-0.5	0.6	-4.1	0.9	1.2	1.2	0.9	-1.9
Dec	-0.1	-0.5	-0.1	2.2	-2.3	-1.2	2.8	-0.5	0.1	0.3	0.5
2015 Jan	-0.1	3.6	-0.8	0.6	0.3	5.0	-2.6	0.1	-3.7	0.4	2.5
Feb	0.4	-2.3	0.5	1.4	2.1	-3.4	-4.2	-0.7	2.0	0.9	-0.6
Mar	0.4	3.2	0.3	-2.1	0.6	5.0	2.0	2.0	-0.7	-0.4	0.7
Apr	0.1	4.5	-0.5	-2.9	2.2	6.8	-0.7	-2.6	0.9	-0.2	1.6
May	0.3	4.6	-0.7	2.2	-0.1	6.2	-1.4	2.2	-1.8	-2.1	3.6
Jun	-0.1	-3.0	0.2	-0.3	2.0	-4.0	4.6	-2.9	1.8	1.5	-2.1
Jul	-0.6	-0.1	-0.9	-0.1	1.0	-0.6	-2.8	1.8	-3.6	-0.8	0.1
Aug	0.9	5.9	0.4	0.8	-2.9	8.3	-2.4	-0.6	2.8	-0.7	4.1
Sep	0.1	-4.7	1.0	1.4	-0.9	-5.7	0.7	1.7	1.1	-0.1	-2.2
Oct	0.2	1.5	-0.3	0.9	1.6	1.2	-1.8	1.2	-1.6	-0.1	1.3
Nov	-0.8	-1.8	-0.4	-3.5	-0.3	-1.1	2.8	-2.0	-0.2	-0.3	-2.0
Dec	-1.0	-3.7	-0.2	-5.9	2.2	-4.3	0.2	0.2	1.3	-1.5	-4.7
2016 Jan	0.8 <sup>†</sup>	-1.1 <sup>†</sup>	0.5 <sup>†</sup>	5.0 <sup>†</sup>	1.2 <sup>†</sup>	-0.4 <sup>†</sup>	-0.2 <sup>†</sup>	-1.0 <sup>†</sup>	0.4 <sup>†</sup>	1.7 <sup>†</sup>	1.7 <sup>†</sup>
Feb	-0.3	3.3	-0.8	-0.3	-0.6	5.1	-1.3	1.4	-2.8	-1.4	2.0
Mar	0.5	-0.3	0.1	3.9	1.1	0.3	-0.5	-1.1	1.9	-0.5	1.5
Apr	2.4	1.3	2.5	4.7	0.5	1.0	2.4	4.0	2.3	1.5	2.3
May	-0.6	-0.5	-0.6	-2.7	1.5	-0.9	0.8	-1.7	-0.3	-	-1.1
Jun	-0.1	1.3	-0.3	-	-	1.5	-2.0	-1.2	1.1	-0.6	0.4
Jul	0.1	7.0	-0.8	-2.5	-0.2	8.5	1.9	-1.6	-1.6	0.3	3.1
Aug	-0.3	-2.8	0.3	-0.5	-0.5	-3.2	0.9	0.5	0.5	-	-1.9
Sep	-0.3	-3.6	0.6	-2.3	-0.2	-4.1	-0.6	0.6	0.5	0.6	-2.6
Oct	-1.1	-8.1	-0.9	4.5	2.3	-9.8	0.3	-1.8	-1.2	-	-2.6
Nov	2.0	7.7	1.4	1.5	-	9.5	-0.5	3.3	0.2	1.0	4.8
Dec	1.1	-1.1	2.1	-2.0	-	-1.1	2.3	3.0	2.6	0.9	-1.4
<b>Percentage change, latest 3 months on same 3 months a year ago<sup>2</sup></b>											
2014 Oct	1.4	-0.7	2.7	-1.6	-2.9	-3.2	7.7	1.3	3.2	3.8	-2.6
Nov	1.3	0.6	2.8	-5.1	-1.8	-1.2	8.8	1.4	3.7	3.2	-2.9
Dec	1.3	-0.3	2.8	-3.8	-2.5	-2.5	9.9	1.1	4.3	3.0	-3.2
2015 Jan	1.2	0.6	2.4	-2.8	-3.3	-1.7	8.6	2.1	2.7	2.8	-2.3
Feb	1.0	-0.1	1.6	2.2	-3.5	-3.3	6.0	0.8	1.5	2.9	-0.7
Mar	1.2	1.6	1.1	3.8	-1.9	-0.6	3.3	1.2	-0.4	2.6	1.5
Apr	1.2	2.3	0.6	4.4	0.9	1.0	1.9	-0.8	-	2.6	2.3
May	1.4	5.9	0.3	2.5	3.0	7.2	2.5	-0.2	-0.6	1.4	4.0
Jun	1.5	9.3	-0.1	0.6	5.1	12.5	3.0	-0.9	-0.9	1.1	5.4
Jul	1.3	10.5	-0.4	-1.2	6.5	13.9	3.0	-0.1	-2.1	0.5	5.2
Aug	1.4	14.0	-0.7	-2.6	6.9	18.3	1.3	-0.6	-2.0	0.1	6.4
Sep	1.3	13.4	-0.8	-1.2	5.8	17.7	-2.0	0.1	-1.8	-0.8	7.0
Oct	1.7	12.9	-0.4	1.1	4.3	17.3	-3.9	1.0	-1.0	-0.9	8.0
Nov	1.3	10.1	-0.5	2.3	3.5	14.1	-4.2	1.1	-1.9	-1.1	7.3
Dec	0.7	9.3	-0.9	-1.3	4.9	13.9	-4.6	0.9	-2.3	-1.9	5.6
2016 Jan	0.3 <sup>†</sup>	6.8 <sup>†</sup>	-1.0	-3.6	6.6 <sup>†</sup>	11.9 <sup>†</sup>	-4.1 <sup>†</sup>	-0.4 <sup>†</sup>	-1.0	-2.4	3.4
Feb	-	5.9	-1.0 <sup>†</sup>	-5.3	7.6	11.9	-3.2	0.2	-0.8	-3.4 <sup>†</sup>	2.2
Mar	0.1	5.0	-1.1	-2.6 <sup>†</sup>	7.1	11.4	-2.3	-0.5	-0.2 <sup>†</sup>	-3.7	3.2
Apr	0.7	4.6	-0.6	1.3	5.8	10.6	-1.1	1.4	-0.4	-3.9	4.6
May	1.2	0.6	0.4	4.2	5.9	4.5	-0.2	1.3	1.4	-2.7	3.5 <sup>†</sup>
Jun	1.7	-0.6	1.2	5.2	5.2	2.2	-0.7	2.8	2.1	-2.2	3.0
Jul	1.6	1.5	1.1	2.8	4.6	4.9	-0.6	0.9	3.0	-1.8	3.4
Aug	1.5	2.3	0.9	1.7	4.4	5.9	-0.1	0.7	2.7	-1.9	3.2
Sep	1.2	2.1	0.8	-0.8	5.1	5.6	2.2	-0.4	2.4	-1.1	2.0
Oct	0.2	-3.5	0.5	-1.3	6.5	-1.4	3.6	-1.4	1.6	-0.6	-1.4
Nov	0.6	-3.5	0.8	0.3	7.1	-1.3	2.7	-1.0	1.7	0.1	-0.6
Dec	1.9	-2.9	1.9	4.5	6.7	-0.6	3.0	0.7	2.4	1.4	1.4

1 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.  
2 Any apparent inconsistencies between these tables and the latest GDP estimate are due to rounding.

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

# IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2013 = 100

Section	Broad industry groups						Main industrial groupings				
	Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	Water supply, sewerage and waste management	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Energy
	B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MG-NRG
Latest weight	1 000.0	120.4	700.4	104.5	74.7	96.2	52.1	208.2	235.8	254.6	232.7
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
<b>Percentage change, latest 3 months on previous 3 months<sup>2</sup></b>											
2014 Oct	0.2	-0.2	0.4	-0.4	0.3	-0.3	4.1	0.2	-	0.5	-0.4
Nov	0.4	2.9	0.4	-3.5	1.6	3.3	3.5	0.4	0.5	0.3	-0.2
Dec	0.3	1.4	0.3	-2.1	1.3	1.0	2.5	0.1	0.8	-	-0.5
2015 Jan	0.3	0.2	0.4	-0.1	0.2	-0.7	2.0	0.5	-	0.8	-0.2
Feb	0.2	-0.4	-	2.9	-0.7	-1.4	-0.2	-	-1.2	1.2	0.9
Mar	0.4	1.8	-0.1	2.1	0.5	2.0	-2.6	0.4	-2.2	1.3	2.0
Apr	0.6	3.6	-	0.1	2.6	5.0	-3.9	-0.4	-0.7	0.9	2.2
May	0.8	7.6	-0.2	-2.2	3.6	11.3	-2.6	0.5	-0.7	-0.5	3.4
Jun	0.6	8.1	-0.5	-2.5	4.0	12.0	-0.2	-1.1	0.5	-1.1	3.6
Jul	0.2	6.6	-1.1	-0.7	3.3	9.4	0.9	-0.3	-1.4	-1.6	3.5
Aug	-	3.4	-0.9	0.3	2.3	4.4	0.7	-1.4	-0.6	-0.8	2.2
Sep	0.1	1.7	-0.4	1.4	-	2.0	-1.6	0.7	-0.9	-1.1	1.8
Oct	0.6	2.0	0.4	1.9	-1.7	2.7	-2.9	1.2	1.1	-0.9	2.4
Nov	0.3	-0.6	0.6	1.3	-1.6	-0.4	-2.1	2.1	0.5	-1.0	0.7
Dec	-0.4	-2.3	0.1	-2.2	0.5	-2.3	-0.3	0.9	0.3	-1.1	-1.8
2016 Jan	-1.1 <sup>†</sup>	-5.2 <sup>†</sup>	-0.2 <sup>†</sup>	-4.7	2.4 <sup>†</sup>	-5.2 <sup>†</sup>	1.9 <sup>†</sup>	-0.8 <sup>†</sup>	0.1	-0.9 <sup>†</sup>	-4.5
Feb	-1.1	-4.1	-0.5	-4.8 <sup>†</sup>	3.2	-3.3	0.9	-0.9	-0.1 <sup>†</sup>	-1.1	-3.9
Mar	-0.2	-2.2	-0.3	0.7	2.6	-0.3	-0.2	-1.0	-0.1	-0.6	-0.4
Apr	1.1	1.4	0.3	5.2	1.9	3.8	-1.0	1.4	-0.1	-0.6	3.4
May	2.0	2.2	1.2	7.7	2.0	3.9	0.4	1.6	1.5	0.1	4.7 <sup>†</sup>
Jun	2.2	2.3	1.8	5.4	2.0	2.8	1.4	2.1	2.8	0.5	3.4
Jul	1.1	3.5	0.6	0.8	2.1	3.7	1.5	-0.8	2.0	0.5	2.3
Aug	0.3	5.1	-0.3	-2.1	0.8	5.8	0.8	-1.9	0.7	-	1.9
Sep	-0.4	4.5	-0.8	-4.4	-0.1	5.5	1.2	-2.4	-0.5	-	0.8
Oct	-0.8	-3.1	-0.2	-2.2	-	-3.4	1.2	-1.2	-0.3	0.3	-2.4
Nov	-0.5	-6.3	0.4	-	1.0	-7.1	0.6	0.3	-0.5	1.0	-3.1
Dec	0.3	-7.0	1.2	3.1	2.0	-8.1	0.6	2.0	0.2	1.4	-2.4

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

<sup>2</sup> Any apparent inconsistencies between these tables and the latest GDP estimate are due to rounding.

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

# IOP5 Output of the Production Industries

Chained volume indices of gross value added<sup>1</sup>

continued

Seasonally adjusted 2013 = 100

Section	Food products, beverages and tobacco	Textiles, wearing apparel and leather products	Wood and paper products and printing	Coke and refined petroleum products	Chemicals and chemical products	Basic pharmaceutical products and preparations
	CA	CB	CC	CD	CE	CF
Latest weight	114.2	25.4	51.0	9.2	39.8	58.7
	K22B	K22P	K22T	K22X	K22Z	K239
2012	101.7	104.6	97.8	102.0	101.1	102.7
2013	100.0	100.0	100.0	100.0	100.0	100.0
2014	104.2	97.3	101.1	91.1	102.8	95.0
2015	104.0	97.1	101.5	93.5	108.9	95.6
2016	104.7	93.2	101.9	91.6	106.1	99.3
2015 Q4	104.6	96.5	101.6	101.0	108.2	96.9
2016 Q1	104.1 †	92.6 †	101.0 †	89.5 †	105.2	95.8 †
Q2	105.1	91.8	102.9	90.1	105.5 †	101.1
Q3	104.9	95.2	101.3	91.6	107.3	95.4
Q4	104.8	93.3	102.2	95.2	106.6	104.8
2015 Oct	104.7	98.2	101.0	102.5	108.7	100.5
Nov	104.6	96.0	102.8	103.3	109.7	94.5
Dec	104.6	95.5	100.8	97.2	106.2	95.7
2016 Jan	104.3 †	97.6 †	102.3 †	93.7 †	106.2	91.1 †
Feb	105.0	91.3	100.2	91.3	104.7	97.8
Mar	103.1	89.0	100.7	83.4	104.6	98.5
Apr	104.6	94.6	102.2	84.0	106.1 †	107.0
May	106.0	88.5	103.9	92.3	105.7	98.7
Jun	104.8	92.4	102.5	93.9	104.6	97.6
Jul	104.6	95.0	101.2	91.6	107.0	92.8
Aug	104.7	95.6	101.4	89.4	106.4	95.2
Sep	105.3	95.0	101.3	93.8	108.7	98.3
Oct	104.4	92.4	101.1	95.7	106.6	95.2
Nov	104.6	92.6	102.9	97.0	106.3	105.3
Dec	105.6	94.7	102.7	92.8	107.0	114.0

## Percentage change, latest year on previous year

2012	-2.6	-3.4	-5.3	-10.1	-1.9	-5.8
2013	-1.7	-4.4	2.3	-1.9	-1.1	-2.6
2014	4.2	-2.7	1.1	-8.9	2.8	-5.0
2015	-0.1	-0.3	0.4	2.7	6.0	0.6
2016	0.7	-4.0	0.3	-2.1	-2.6	3.8

## Percentage change, latest month on same month a year ago

2014 Oct	6.8	-10.1	3.5	2.6	2.0	-8.5
Nov	5.9	-9.1	3.7	-3.0	3.9	-2.1
Dec	5.6	-9.8	-0.8	-10.4	1.4	-5.4
2015 Jan	2.5	-9.9	3.1	-2.7	4.9	7.7
Feb	0.7	-5.1	1.8	3.7	10.4	-5.5
Mar	0.4	-1.0	3.9	-7.3	7.3	0.8
Apr	-1.3	-3.0	2.4	-7.8	8.2	-7.1
May	-0.1	-6.5	-0.1	-6.3	3.4	6.0
Jun	-0.7	3.9	-1.0	-4.0	7.1	-2.2
Jul	-1.0	6.1	-0.7	9.6	5.2	-0.3
Aug	-0.7	-3.5	-2.7	9.3	8.6	-1.1
Sep	0.6	2.4	-1.0	10.2	4.5	2.5
Oct	-0.3	6.8	-1.6	11.9	5.7	9.1
Nov	-0.4	2.8	0.7	14.1	4.6	-1.0
Dec	-1.3	6.8	0.8	2.9	2.4	-
2016 Jan	-0.5 †	5.8 †	-1.5 †	2.6 †	-2.5 †	-3.4 †
Feb	0.5	-5.8	-2.5	-3.3	-6.1	6.0
Mar	-1.1	-10.6	-1.6	-3.8	-5.0	0.6
Apr	1.7	-4.0	0.1	-2.1	-4.8	15.6
May	3.0	-13.1	3.2	7.6	-0.7	-1.4
Jun	1.9	-8.4	2.9	12.2	-2.9	7.4
Jul	1.2	-3.8	1.1	-5.1	-1.7	-3.4
Aug	0.7	5.8	0.9	-7.6	-2.3	-0.4
Sep	0.5	-1.6	-0.3	-4.8	-0.2	1.1
Oct	-0.4	-5.9	-	-6.7	-1.9	-5.2
Nov	-0.1	-3.5	-	-6.1	-3.1	11.4
Dec	1.0	-0.8	1.9	-4.5	0.8	19.1

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

† indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

# IOP5 Output of the Production Industries

Chained volume indices of gross value added<sup>1</sup>

continued

Seasonally adjusted 2013 = 100

Section	Rubber and plastic products and non-metallic mineral products	Basic metals and metal products	Computer, electronic and optical products	Electrical equipment	Machinery and equipment not elsewhere classified	Transport equipment	Other manufacturing and repair
	CG	CH	CI	CJ	CK	CL	CM
Latest weight	55.0	83.1	36.2	20.9	50.6	92.0	64.4
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
2012	102.8	102.9	102.1	104.9	113.4	92.9	95.6
2013	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2014	113.1	101.5	103.9	96.8	104.3	103.5	105.6
2015	109.8	101.9	102.0	98.1	91.1	109.6	103.7
2016	112.3	100.7	101.1	92.7	90.1	113.4	107.4
2015 Q4	109.5	99.3	100.6	97.0	88.2	112.0	102.0
2016 Q1	111.2 †	101.1 †	98.7 †	94.4 †	88.7 †	110.1	106.9 †
Q2	113.7	100.1	100.8	91.9	90.3	115.9 †	107.6
Q3	111.8	100.2	101.3	90.1	90.4	113.6	107.8
Q4	112.5	101.3	103.6	94.3	90.9	114.0	107.2
2015 Oct	109.7	100.2	100.2	98.0	87.7	113.4	98.1
Nov	109.1	99.1	99.6	97.0	87.5	111.4	104.0
Dec	109.6	98.5	102.0	96.0	89.4	111.2	103.9
2016 Jan	112.0 †	101.7 †	101.5 †	95.2 †	88.3	111.5	107.6 †
Feb	111.1	100.9	97.9	95.2	87.4 †	107.8	106.2
Mar	110.7	100.9	96.8	92.9	90.4	110.9 †	106.8
Apr	114.6	99.6	99.8	93.6	92.3	116.7	106.2
May	113.5	100.4	101.8	90.2	89.9	116.2	106.7
Jun	112.9	100.2	100.8	91.8	88.7	114.9	110.0
Jul	111.7	100.5	100.6	89.9	90.1	112.8	108.3
Aug	111.3	99.9	101.9	89.3	91.2	114.9	106.0
Sep	112.5	100.2	101.3	91.1	90.1	113.2	109.1
Oct	111.5	99.1	102.3	92.8	89.4	112.7	107.8
Nov	113.2	100.2	102.4	95.9	91.2	114.1	104.9
Dec	112.6	104.7	106.2	94.1	92.1	115.2	108.8

## Percentage change, latest year on previous year

2012	-4.2	2.9	0.5	10.9	1.1	4.4	-6.3
2013	-2.8	-2.8	-2.1	-4.7	-11.8	7.6	4.6
2014	13.1	1.5	3.9	-3.2	4.3	3.5	5.6
2015	-3.0	0.4	-1.8	1.3	-12.7	5.9	-1.8
2016	2.3	-1.2	-0.9	-5.5	-1.1	3.4	3.5

## Percentage change, latest month on same month a year ago

2014 Oct	10.7	-2.0	8.7	-7.2	-0.3	1.7	5.9
Nov	8.6	0.9	7.6	-1.5	0.3	4.1	8.7
Dec	10.0	-0.6	15.1	2.1	-1.2	9.9	0.5
2015 Jan	0.1	1.5	-1.4	-0.3	-10.3	6.4	-0.6
Feb	-0.1	3.5	-0.7	3.0	-9.9	6.5	1.5
Mar	-0.5	3.7	0.9	0.7	-11.7	4.3	2.8
Apr	-3.4	3.1	-1.3	2.6	-9.3	3.9	1.9
May	-3.1	0.5	0.8	4.2	-15.1	7.8	0.7
Jun	-2.3	3.0	7.7	-3.0	-14.7	3.3	-0.6
Jul	-3.6	0.1	-0.5	-0.8	-16.6	2.7	-4.2
Aug	-6.1	-1.2	-0.4	4.7	-12.8	10.7	-8.1
Sep	-4.0	-1.4	-6.4	2.5	-12.9	7.0	-1.3
Oct	-4.3	-0.5	-4.2	6.6	-14.6	8.9	-8.8
Nov	-4.0	-3.6	-5.8	-0.2	-13.1	4.8	-4.6
Dec	-4.5	-3.5	-9.4	-3.5	-11.6	4.4	-0.1
2016 Jan	1.1 †	-2.0 †	-0.8 †	-1.6 †	-5.8 †	4.8	2.4 †
Feb	0.3	-4.2	-2.9	-3.2	-8.6	-0.2 †	1.3
Mar	-0.4	-3.3	-5.6	-6.5	-3.8	3.5	0.2
Apr	3.8	-4.7	-2.8	-5.9	-3.5	8.3	-0.5
May	4.3	0.5	0.9	-8.5	-0.5	5.7	2.7
Jun	3.0	-4.9	-6.2	-6.9	-1.9	4.7	5.2
Jul	1.6	0.9	-1.5	-7.5	1.6	5.0	6.4
Aug	3.0	-1.9	0.1	-8.5	2.1	2.7	5.4
Sep	2.9	-0.2	-0.3	-8.7	-0.8	1.6	4.5
Oct	1.6	-1.1	2.1	-5.4	2.0	-0.6	9.9
Nov	3.8	1.1	2.8	-1.1	4.2	2.5	0.8
Dec	2.7	6.3	4.1	-2.0	3.1	3.6	4.7

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

† indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

# IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2013 = 100

Section	Food products, beverages and tobacco	Textiles, wearing apparel and leather products	Wood and paper products and printing	Coke and refined petroleum products	Chemicals and chemical products	Basic pharmaceutical products and preparations
	CA	CB	CC	CD	CE	CF
Latest weight	114.2	25.4	51.0	9.2	39.8	58.7
	K22B	K22P	K22T	K22X	K22Z	K239
<b>Percentage change, latest month on previous month</b>						
2014 Oct	0.8	-2.4	-	2.4	-1.4	-2.9
Nov	-	1.5	-0.6	-1.2	2.0	3.5
Dec	0.9	-4.3	-2.1	4.4	-1.1	0.3
2015 Jan	-1.1	3.1	3.8	-3.4	5.0	-1.5
Feb	-0.3	5.0	-1.0	3.5	2.5	-2.1
Mar	-0.2	2.9	-0.5	-8.3	-1.2	6.0
Apr	-1.3	-1.1	-0.3	-1.0	1.2	-5.5
May	0.1	3.4	-1.3	-	-4.5	8.1
Jun	-0.2	-1.0	-1.0	-2.4	1.3	-9.2
Jul	0.6	-2.0	0.4	15.3	1.0	5.7
Aug	0.6	-8.4	0.4	0.3	0.1	-0.5
Sep	0.7	6.7	1.1	1.8	-	1.8
Oct	-0.1	1.8	-0.6	4.1	-0.2	3.4
Nov	-0.1	-2.3	1.8	0.8	0.9	-6.0
Dec	-0.1	-0.5	-2.0	-5.9	-3.2	1.3
2016 Jan	-0.2 †	2.2 †	1.5 †	-3.6 †	- †	-4.8 †
Feb	0.7	-6.5	-2.0	-2.5	-1.4	7.4
Mar	-1.9	-2.4	0.5	-8.7	-0.1	0.6
Apr	1.5	6.2	1.5	0.8	1.4	8.6
May	1.3	-6.4	1.7	9.8	-0.4	-7.7
Jun	-1.2	4.3	-1.3	1.7	-1.0	-1.1
Jul	-0.2	2.9	-1.3	-2.4	2.2	-4.9
Aug	0.1	0.6	0.2	-2.3	-0.6	2.6
Sep	0.6	-0.7	-0.1	4.9	2.2	3.2
Oct	-0.9	-2.7	-0.3	2.0	-1.9	-3.1
Nov	0.2	0.3	1.8	1.4	-0.3	10.5
Dec	1.0	2.3	-0.1	-4.3	0.7	8.3
<b>Percentage change, latest 3 months on same 3 months a year ago</b>						
2014 Oct	5.7	-8.3	3.1	-5.4	1.4	-3.8
Nov	6.3	-8.4	3.2	-1.9	3.0	-5.8
Dec	6.1	-9.7	2.1	-4.0	2.4	-5.4
2015 Jan	4.7	-9.6	2.0	-5.6	3.4	-0.3
Feb	2.9	-8.2	1.4	-3.5	5.5	-1.5
Mar	1.2	-5.4	2.9	-2.2	7.5	0.7
Apr	-0.1	-3.0	2.7	-3.8	8.6	-4.0
May	-0.4	-3.6	2.0	-7.1	6.3	-0.2
Jun	-0.7	-2.0	0.4	-6.1	6.2	-1.2
Jul	-0.6	0.8	-0.6	-0.3	5.2	1.2
Aug	-0.8	2.2	-1.5	5.0	7.0	-1.2
Sep	-0.4	1.7	-1.5	9.7	6.1	0.4
Oct	-0.1	1.9	-1.8	10.5	6.2	3.4
Nov	-	4.0	-0.6	12.1	4.9	3.5
Dec	-0.7	5.4	-	9.6	4.2	2.6
2016 Jan	-0.7	5.1 †	- †	6.5 †	1.5	-1.5 †
Feb	-0.5 †	2.1	-1.1	0.7	-2.2 †	0.8
Mar	-0.4	-3.7	-1.9	-1.5	-4.6	1.0
Apr	0.4	-6.8	-1.3	-3.1	-5.3	7.2
May	1.2	-9.3	0.6	0.5	-3.6	4.7
Jun	2.2	-8.5	2.1	5.8	-2.9	7.0
Jul	2.0	-8.5	2.4	4.4	-1.8	0.7
Aug	1.3	-2.4	1.6	-0.7	-2.3	1.1
Sep	0.8	-	0.5	-5.8	-1.4	-0.9
Oct	0.3	-0.8	0.2	-6.3	-1.5	-1.6
Nov	-	-3.7	-0.1	-5.9	-1.7	2.2
Dec	0.2	-3.4	0.6	-5.8	-1.4	8.2

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

† indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

# IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2013 = 100

Section	Rubber and plastic products and non-metallic mineral products	Basic metals and metal products	Computer, electronic and optical products	Electrical equipment	Machinery and equipment not elsewhere classified	Transport equipment	Other manufacturing and repair
	CG	CH	CI	CJ	CK	CL	CM
Latest weight	55.0	83.1	36.2	20.9	50.6	92.0	64.4
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z

## Percentage change, latest month on previous month

2014	Oct	0.6	-1.1	-3.7	-5.6	-1.5	0.1	1.7
	Nov	-0.9	2.1	1.0	5.7	-1.9	2.1	1.4
	Dec	1.0	-0.7	6.5	2.4	0.3	0.1	-4.6
2015	Jan	-3.5	1.7	-9.1	-2.8	-7.2	-	1.1
	Feb	-	1.4	-1.5	1.7	1.9	1.5	-0.4
	Mar	0.4	-0.9	1.9	1.0	-1.7	-0.7	1.8
	Apr	-0.8	0.3	-	0.1	1.8	0.5	0.1
	May	-1.3	-4.5	-1.7	-0.9	-5.5	2.0	-2.7
	Jun	0.6	5.5	6.5	-	0.1	-0.2	0.6
	Jul	0.2	-5.4	-5.0	-1.5	-1.9	-2.0	-2.7
	Aug	-1.6	2.2	-0.2	0.4	0.7	4.1	-1.1
	Sep	1.2	-1.4	-0.2	2.3	1.8	-0.5	3.9
	Oct	0.3	-0.2	-1.4	-1.8	-3.5	1.9	-6.1
	Nov	-0.6	-1.1	-0.6	-1.0	-0.1	-1.8	6.0
	Dec	0.5	-0.7	2.4	-1.0	2.1	-0.2	-0.1
2016	Jan	2.2 <sup>†</sup>	3.3 <sup>†</sup>	-0.5 <sup>†</sup>	-0.9 <sup>†</sup>	-1.2	0.3	3.6 <sup>†</sup>
	Feb	-0.8	-0.8	-3.6	-	-1.0 <sup>†</sup>	-3.3	-1.4
	Mar	-0.3	-	-1.0	-2.4	3.4	2.9 <sup>†</sup>	0.6
	Apr	3.5	-1.3	3.0	0.8	2.1	5.2	-0.5
	May	-0.9	0.8	2.1	-3.6	-2.6	-0.4	0.4
	Jun	-0.5	-0.2	-1.0	1.8	-1.3	-1.1	3.1
	Jul	-1.1	0.3	-0.3	-2.1	1.5	-1.8	-1.6
	Aug	-0.3	-0.6	1.3	-0.6	1.2	1.9	-2.1
	Sep	1.1	0.3	-0.6	2.0	-1.1	-1.5	2.9
	Oct	-0.9	-1.1	1.0	1.8	-0.8	-0.4	-1.2
	Nov	1.5	1.1	0.1	3.4	2.0	1.3	-2.7
	Dec	-0.5	4.5	3.7	-1.9	1.0	0.9	3.7

## Percentage change, latest 3 months on same 3 months a year ago

2014	Oct	12.2	0.5	7.5	-5.8	1.9	1.4	5.7
	Nov	10.6	-0.4	9.1	-3.7	0.9	2.5	6.2
	Dec	9.8	-0.6	10.5	-2.2	-0.4	5.2	5.0
2015	Jan	6.1	0.6	6.9	0.1	-3.8	6.7	2.8
	Feb	3.2	1.4	4.2	1.6	-7.2	7.6	0.5
	Mar	-0.2	2.9	-0.4	1.1	-10.6	5.7	1.2
	Apr	-1.3	3.4	-0.4	2.1	-10.3	4.9	2.1
	May	-2.3	2.4	0.1	2.5	-12.0	5.3	1.8
	Jun	-2.9	2.2	2.4	1.2	-13.1	5.0	0.7
	Jul	-3.0	1.2	2.6	0.1	-15.5	4.6	-1.4
	Aug	-4.0	0.6	2.2	0.2	-14.7	5.5	-4.3
	Sep	-4.6	-0.8	-2.5	2.1	-14.1	6.8	-4.6
	Oct	-4.8	-1.0	-3.7	4.5	-13.4	8.9	-6.1
	Nov	-4.1	-1.8	-5.5	2.9	-13.5	6.9	-4.9
	Dec	-4.2	-2.5	-6.5	0.8	-13.1	6.0	-4.5
2016	Jan	-2.5 <sup>†</sup>	-3.0 <sup>†</sup>	-5.4	-1.8 <sup>†</sup>	-10.3	4.7	-0.8 <sup>†</sup>
	Feb	-1.1	-3.3	-4.5	-2.8	-8.7 <sup>†</sup>	3.0	1.2
	Mar	0.3	-3.2	-3.1 <sup>†</sup>	-3.8	-6.1	2.7	1.3
	Apr	1.2	-4.1	-3.8	-5.2	-5.3	3.9 <sup>†</sup>	0.4
	May	2.5	-2.5	-2.5	-6.9	-2.6	5.8	0.8
	Jun	3.7	-3.1	-2.8	-7.1	-2.0	6.2	2.5
	Jul	3.0	-1.2	-2.3	-7.6	-0.3	5.1	4.8
	Aug	2.6	-2.0	-2.6	-7.6	0.6	4.1	5.7
	Sep	2.5	-0.4	-0.6	-8.2	1.0	3.1	5.4
	Oct	2.5	-1.0	0.6	-7.5	1.1	1.2	6.5
	Nov	2.8	-0.1	1.5	-5.1	1.8	1.2	5.0
	Dec	2.7	2.1	3.0	-2.8	3.1	1.8	5.0

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

# IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2013 = 100

Section	Food products, beverages and tobacco	Textiles, wearing apparel and leather products	Wood and paper products and printing	Coke and refined petroleum products	Chemicals and chemical products	Basic pharmaceutical products and preparations
	CA	CB	CC	CD	CE	CF
Latest weight	114.2	25.4	51.0	9.2	39.8	58.7
	K22B	K22P	K22T	K22X	K22Z	K239
<b>Percentage change, latest 3 months on previous 3 months</b>						
2014 Oct	0.9	-6.4	2.1	1.1	0.1	-
Nov	0.5	-1.5	0.9	3.0	2.5	-1.2
Dec	0.8	-2.2	-0.7	4.0	1.1	-1.6
2015 Jan	0.6	-1.8	-0.9	2.5	3.3	0.6
Feb	0.3	-0.4	-0.3	3.2	3.9	-
Mar	-0.8	5.1	1.4	-1.5	6.2	0.5
Apr	-1.3	7.3	0.4	-3.4	5.0	-0.9
May	-1.7	7.7	-0.5	-7.8	1.2	2.9
Jun	-1.6	4.3	-2.1	-6.3	-1.5	-0.4
Jul	-0.8	2.2	-2.2	-0.4	-3.0	1.5
Aug	0.1	-3.3	-1.5	7.3	-0.8	-2.7
Sep	1.2	-5.1	-	14.3	0.3	1.9
Oct	1.4	-5.4	0.9	12.0	1.1	2.2
Nov	1.3	0.2	1.7	9.9	0.5	3.4
Dec	0.5	1.4	0.8	3.9	-0.7	0.6
2016 Jan	-	1.4 †	0.9 †	-1.2 †	-1.4 †	-4.1 †
Feb	-0.1 †	-2.2	-0.8	-7.3	-3.1	-2.6
Mar	-0.5	-4.1	-0.5	-11.4	-2.8	-1.1
Apr	-0.3	-4.9	-0.9	-12.1	-2.1	7.8
May	-	-4.3	1.2	-8.0	-0.2	6.9
Jun	1.0	-0.9	1.8	0.7	0.3	5.5
Jul	0.9	0.4	1.5	7.4	0.6	-4.6
Aug	0.1	4.0	-0.5	5.9	0.5	-6.1
Sep	-0.2	3.7	-1.5	1.7	1.8	-5.6
Oct	-0.3	2.6	-1.2	0.4	1.4	-0.2
Nov	-	-1.1	-	4.2	1.1	4.6
Dec	-0.1	-2.1	0.9	3.9	-0.7	9.8

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

† indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

# IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2013 = 100

Section	Rubber and plastic products and non-metallic mineral products	Basic metals and metal products	Computer, electronic and optical products	Electrical equipment	Machinery and equipment not elsewhere classified	Transport equipment	Other manufacturing and repair
	CG	CH	CI	CJ	CK	CL	CM
Latest weight	55.0	83.1	36.2	20.9	50.6	92.0	64.4
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z

## Percentage change, latest 3 months on previous 3 months

2014	Oct	1.5	1.4	4.3	-3.9	-2.9	-1.2	2.6
	Nov	0.3	0.1	4.7	-2.1	-2.2	0.8	0.5
	Dec	-	0.4	3.0	0.1	-2.7	2.3	-0.2
2015	Jan	-1.3	1.0	1.6	3.9	-4.5	3.2	-1.4
	Feb	-1.7	1.9	-1.0	2.8	-5.6	2.0	-2.6
	Mar	-3.0	2.6	-5.3	2.0	-7.0	1.5	-1.3
	Apr	-2.0	1.8	-4.5	1.2	-3.5	1.2	-
	May	-1.7	-0.8	-3.0	0.9	-3.6	1.3	1.0
	Jun	-1.2	-1.1	1.8	0.8	-2.5	1.8	-0.4
	Jul	-1.2	-2.9	1.5	-0.9	-5.5	1.3	-2.5
	Aug	-0.9	-0.6	1.7	-1.4	-4.1	1.3	-3.3
	Sep	-0.5	-2.6	-1.7	-0.7	-2.7	1.0	-2.6
	Oct	-0.4	-0.8	-2.2	0.3	-0.6	2.9	-2.2
	Nov	0.2	-2.3	-3.2	0.5	-0.9	2.2	-0.1
	Dec	0.4	-1.3	-1.3	-1.2	-1.6	1.6	-0.2
2016	Jan	1.1 <sup>†</sup>	-1.0 <sup>†</sup>	-0.2	-2.4 <sup>†</sup>	-1.0	-0.8	4.1 <sup>†</sup>
	Feb	1.4	0.4	-	-2.8	-0.4	-1.7	3.6
	Mar	1.6	1.9	-1.9 <sup>†</sup>	-2.7	0.6 <sup>†</sup>	-1.7	4.8
	Apr	1.7	0.7	-2.9	-2.2	1.8	0.4 <sup>†</sup>	1.2
	May	1.8	-	-1.0	-3.4	2.8	4.0	0.6
	Jun	2.2	-1.1	2.1	-2.7	1.8	5.3	0.7
	Jul	0.5	-0.1	3.0	-3.5	-0.5	2.5	1.8
	Aug	-0.9	-0.1	1.6	-2.1	-1.0	-0.3	1.4
	Sep	-1.6	0.2	0.5	-2.0	0.2	-2.0	0.1
	Oct	-0.8	-0.6	0.8	0.4	0.8	-0.9	-0.6
	Nov	0.4	-0.4	0.9	3.2	0.3	-0.8	-0.8
	Dec	0.6	1.1	2.3	4.6	0.5	0.3	-0.6

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.



- [Page 1](#) Output by Broad industry groups and Main industrial groupings  
Percentage change, latest year on previous year  
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# IOP5R

## Output of the Production Industries

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2013 = 100

Section	Broad industry groups					Main industrial groupings					
	Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	Water supply, sewerage and waste management	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Energy
	B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MG-NRG
Latest weight	1 000.0	120.4	700.4	104.5	74.7	96.2	52.1	208.2	235.8	254.6	232.7
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
2012	-	-	-	-	-	-	-	-	-	-	-
2013	-	-	-	-	-	-	-	-	-	-	-
2014	-	-	-	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-	-	-	-
2015 Q3	-	-	-	-	-	-	-	-	-	-	-
2015 Q4	-	-	-	-	-	-	-	-	-	-	-
2016 Q1	-	-1.2	0.2	-0.1	0.1	0.1	-0.3	0.5	-0.1	-0.4	-
2016 Q2	0.1	-1.7	0.3	0.6	-0.2	-0.2	-0.2	0.9	-0.2	-0.4	0.2
2016 Q3	0.1	-1.7	0.4	0.3	-0.1	0.4	-	1.1	-0.4	-0.4	0.3
2015 Sep	-	-	-	-	-	-	-	-	-	-	-
2015 Oct	-	-	-	-	-	-	-	-	-	-	-
2015 Nov	-	-	-	-	-	-	-	-	-	-	-
2015 Dec	-	-	-	-	-	-	-	-	-	-	-
2016 Jan	-	-0.5	0.1	0.1	0.2	0.2	-0.3	0.4	-0.1	-0.1	0.1
2016 Feb	-	-1.3	0.2	-0.3	-	-0.1	-0.2	0.4	-	-0.4	-0.2
2016 Mar	-	-1.6	0.2	-0.1	-	-0.1	-0.4	0.5	-0.1	-0.5	-
2016 Apr	0.1	-1.6	0.3	0.4	-	-	-0.3	1.0	-	-0.5	0.1
2016 May	-	-1.7	0.3	0.6	-0.1	-0.1	-0.1	0.8	-0.2	-0.4	0.2
2016 Jun	0.1	-2.0	0.3	1.0	-0.3	-0.4	-0.3	1.0	-0.3	-0.5	0.3
2016 Jul	-	-1.8	0.3	0.4	-0.6	-	0.1	0.9	-0.3	-0.5	0.2
2016 Aug	0.1	-1.7	0.4	0.5	-0.2	0.5	-	1.1	-0.4	-0.4	0.3
2016 Sep	0.1	-1.5	0.4	0.2	0.3	0.9	-	1.3	-0.5	-0.4	0.5
2016 Oct	0.2	-1.6	0.5	0.4	0.3	0.8	-0.1	1.3	-0.3	-0.5	0.6
2016 Nov	0.2	-2.2	0.6	-	0.4	0.1	0.1	1.3	0.1	-0.6	0.1

### Percentage change, latest year on previous year

2011	-	-	-	-	-	-	-	-	-	-	-
2012	-	-	-	-	-	-	-	-	-	-	-
2013	-	-	-	-	-	-	-	-	-	-	-
2014	-	-	-	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-	-	-	-

### Percentage change, latest month on same month a year ago

2014 Sep	-	-	-	-	-	-	-	-	-	-	-
2014 Oct	-	-	-	-	-	-	-	-	-	-	-
2014 Nov	-	-	-	-	-	-	-	-	-	-	-
2014 Dec	-	-	-	-	-	-	-	-	-	-	-
2015 Jan	-	-	-	-	-	-	-	-	-	-	-
2015 Feb	-	-	-	-	-	-	-	-	-	-	-
2015 Mar	-	-	-	-	-	-	-	-	-	-	-
2015 Apr	-	-	-	-	-	-	-	-	-	-	-
2015 May	-	-	-	-	-	-	-	-	-	-	-
2015 Jun	-	-	-	-	-	-	-	-	-	-	-
2015 Jul	-	-	-	-	-	-	-	-	-	-	-
2015 Aug	-	-	-	-	-	-	-	-	-	-	-
2015 Sep	-	-	-	-	-	-	-	-	-	-	-
2015 Oct	-	-	-	-	-	-	-	-	-	-	-
2015 Nov	-	-	-	-	-	-	-	-	-	-	-
2015 Dec	-	-	-	-	-	-	-	-	-	-	-
2016 Jan	0.1	-0.5	0.2	-	0.3	0.2	-0.3	0.3	-	-0.1	0.2
2016 Feb	-0.1	-1.4	0.1	-0.4	0.1	-0.2	-0.3	0.4	-	-0.4	-0.2
2016 Mar	-	-1.5	0.2	-	-0.1	-	-0.4	0.5	-0.1	-0.5	-0.1
2016 Apr	0.1	-1.5	0.3	0.4	-	-0.1	-0.3	1.1	-0.1	-0.5	0.1
2016 May	-	-1.4	0.3	0.5	-0.1	-	-0.2	0.9	-0.2	-0.4	0.2
2016 Jun	0.1	-1.8	0.3	1.0	-0.3	-0.3	-0.3	1.0	-0.2	-0.4	0.3
2016 Jul	-	-1.7	0.3	0.5	-0.5	-	0.1	0.9	-0.3	-0.5	0.2
2016 Aug	0.1	-1.4	0.3	0.5	-0.2	0.3	-	1.1	-0.3	-0.4	0.4
2016 Sep	0.1	-1.3	0.5	0.2	0.3	0.8	-	1.3	-0.4	-0.3	0.4
2016 Oct	0.2	-1.5	0.5	0.4	0.4	0.7	-0.1	1.3	-0.3	-0.4	0.5
2016 Nov	0.2	-2.0	0.5	-	0.5	-	0.1	1.3	0.2	-0.6	0.1

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

**Output of the Production Industries**  
Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2013 = 100

Section	Broad industry groups					Main industrial groupings					
	Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	Water supply, sewerage and waste management	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Energy
	B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MG-NRG
Latest weight	1 000.0	120.4	700.4	104.5	74.7	96.2	52.1	208.2	235.8	254.6	232.7
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T

Percentage change, latest month on previous month

2014 Sep	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
2015 Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
2016 Jan	0.1	-0.5	0.1	0.1	0.2	0.2	-0.3	0.4	-0.1	-0.1	0.1
Feb	-0.2	-0.7	0.1	-0.4	-0.2	-0.3	0.1	-	-	-0.3	-0.3
Mar	-	-0.2	-	0.3	-	0.1	-0.1	0.1	-	-0.1	0.1
Apr	0.2	-	0.2	0.4	-0.1	-	0.1	0.5	-	-0.1	0.2
May	-	-	-	0.1	-	-	0.1	-0.2	-	0.1	0.1
Jun	-0.1	-0.3	-	0.4	-0.1	-0.3	-0.1	0.1	-0.1	-	0.1
Jul	-0.1	0.2	-	-0.6	-0.3	0.3	0.4	-	-	-	-0.1
Aug	-	0.1	0.1	0.1	0.3	0.4	-0.1	0.1	-0.1	0.1	0.2
Sep	0.1	0.2	-	-0.3	0.4	0.4	-	0.2	-0.1	0.1	0.1
Oct	-	-0.2	0.1	0.2	-	-	-0.1	-	0.2	-0.1	0.1
Nov	-0.1	-0.5	0.1	-0.4	0.1	-0.8	0.1	-0.1	0.4	-0.1	-0.5

Percentage change, latest 3 months on same 3 months a year ago

2014 Sep	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
2015 Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
2016 Jan	0.1	-0.2	-	-	0.1	0.1	-0.1	0.1	-	-	-
Feb	-	-0.7	0.1	-	0.1	-	-0.1	0.2	-	-0.2	-
Mar	-	-1.2	0.1	-0.1	-	-	-0.3	0.4	-0.1	-0.3	-
Apr	-	-1.5	0.2	-	-	-0.1	-0.3	0.6	-	-0.4	-
May	-	-1.6	0.3	0.3	-0.1	-	-0.2	0.8	-	-0.4	0.1
Jun	0.1	-1.6	0.3	0.6	-0.1	-0.1	-0.2	1.0	-0.1	-0.5	0.2
Jul	-	-1.7	0.3	0.6	-0.3	-0.1	-0.1	0.9	-0.2	-0.4	0.3
Aug	0.1	-1.7	0.3	0.6	-0.3	-	-0.1	1.0	-0.3	-0.4	0.3
Sep	0.1	-1.5	0.3	0.3	-0.1	0.3	0.1	1.1	-0.4	-0.4	0.3
Oct	0.1	-1.4	0.4	0.3	0.2	0.6	-	1.2	-0.3	-0.4	0.5
Nov	0.1	-1.7	0.5	0.2	0.4	0.5	-	1.3	-0.2	-0.4	0.4

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

Section	Broad industry groups					Main industrial groupings					
	Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	Water supply, sewerage and waste management	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Energy
	B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MG-NRG
Latest weight	1 000.0	120.4	700.4	104.5	74.7	96.2	52.1	208.2	235.8	254.6	232.7
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
<b>Percentage change, latest 3 months on previous 3 months</b>											
2014	Sep	-	-	-	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-	-
2015	Jan	-	-	-	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-	-	-	-
	Apr	-	-	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-	-	-
	Jun	-	-	-	-	-	-	-	-	-	-
	Jul	-	-	-	-	-	-	-	-	-	-
	Aug	-	-	-	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-	-
2016	Jan	0.1	-0.2	0.1	-	0.1	-0.1	0.1	-	-0.1	-
	Feb	-	-0.6	0.1	-0.1	0.1	-	-0.1	0.3	-0.1	-0.2
	Mar	-	-1.0	0.1	-0.1	0.1	-	-0.3	0.4	-0.1	-0.4
	Apr	-	-1.3	0.1	-	-0.1	-0.1	-0.2	0.5	-	-0.4
	May	0.1	-0.9	0.2	0.4	-0.1	-	-	0.6	-0.1	-0.3
	Jun	0.1	-0.5	0.2	0.8	-0.3	-0.1	0.1	0.5	-0.1	-0.1
	Jul	0.1	-0.2	0.1	0.7	-0.3	-0.1	0.2	0.3	-0.2	-
	Aug	-	-0.1	0.1	0.3	-0.3	-	0.1	0.2	-0.2	-
	Sep	-	0.2	-	-0.2	-	0.5	0.2	0.2	-0.1	-
	Oct	0.1	0.1	0.1	-0.2	0.4	0.7	0.1	0.3	-0.1	-
	Nov	0.1	-0.1	0.1	-0.4	0.7	0.5	-	0.3	0.1	-

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

Section	Food products, beverages and tobacco	Textiles, wearing apparel and leather products	Wood and paper products and printing	Coke and refined petroleum products	Chemicals and chemical products	Basic pharmaceutical products and preparations
	CA	CB	CC	CD	CE	CF
Latest weight	114.2	25.4	51.0	9.2	39.8	58.7
	K22B	K22P	K22T	K22X	K22Z	K239
2012	-	-	-	-	-	-
2013	-	-	-	-	-	-
2014	-	-	-	-	-	-
2015	-	-	-	-	-	-
2015 Q3	-	-	-	-	-	-
Q4	-	-	-	-	-	-
2016 Q1	-0.1	0.2	0.5	-0.4	-	1.5
Q2	0.6	0.3	0.6	-0.8	0.4	2.1
Q3	0.4	0.2	0.7	-0.7	0.9	2.9
2015 Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2016 Jan	-0.2	0.2	0.7	-0.2	-	1.5
Feb	-0.1	0.4	0.4	-0.4	-	1.3
Mar	0.1	0.1	0.5	-0.5	-	1.7
Apr	0.7	0.3	0.6	-1.5	-0.1	2.3
May	0.6	0.2	0.6	-0.6	0.6	1.6
Jun	0.5	0.3	0.7	-0.4	0.7	2.4
Jul	0.5	0.2	0.6	-0.5	0.7	2.1
Aug	0.4	0.1	0.7	-1.0	0.8	2.9
Sep	0.3	0.3	0.7	-0.5	1.5	3.9
Oct	0.5	0.6	1.0	-0.6	0.8	3.5
Nov	0.4	0.3	1.4	-0.6	1.1	3.1

### Percentage change, latest year on previous year

2011	-	-	-	-	-	-
2012	-	-	-	-	-	-
2013	-	-	-	-	-	-
2014	-	-	-	-	-	-
2015	-	-	-	-	-	-

### Percentage change, latest month on same month a year ago

2014 Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2015 Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2016 Jan	-0.2	0.2	0.6	-0.3	-0.1	1.5
Feb	-0.1	0.4	0.4	-0.4	-	1.5
Mar	0.1	0.2	0.5	-0.7	-	1.8
Apr	0.7	0.3	0.5	-1.7	-0.1	2.4
May	0.6	0.2	0.6	-0.7	0.6	1.6
Jun	0.4	0.3	0.7	-0.5	0.7	2.6
Jul	0.5	0.2	0.6	-0.6	0.6	2.2
Aug	0.5	0.2	0.8	-1.0	0.7	3.0
Sep	0.3	0.3	0.7	-0.6	1.4	4.1
Oct	0.4	0.6	0.9	-0.6	0.8	3.5
Nov	0.3	0.3	1.3	-0.5	1.0	3.2

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

## Output of the Production Industries

Chained volume indices of gross value added<sup>†</sup>

Seasonally adjusted 2013 = 100

Section	Rubber and plastic products and non-metallic mineral products	Basic metals and metal products	Computer, electronic and optical products	Electrical equipment	Machinery and equipment not elsewhere classified	Transport equipment	Other manufacturing and repair
	CG	CH	CI	CJ	CK	CL	CM
Latest weight	55.0	83.1	36.2	20.9	50.6	92.0	64.4
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
2012	-	-	-	-	-	-	-
2013	-	-	-	-	-	-	-
2014	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-
2015 Q3	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-
2016 Q1	0.2	0.2	-0.2	0.1	0.1	-	-0.3
Q2	0.2	0.4	-	0.2	0.1	-0.4	-0.5
Q3	0.2	0.5	0.5	0.3	-0.4	-0.8	-0.5
2015 Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2016 Jan	0.3	0.1	-0.2	0.2	-	-	-0.4
Feb	0.3	0.3	-	0.1	0.1	-	-0.2
Mar	0.2	0.3	-0.3	0.1	0.1	-0.2	-0.3
Apr	0.3	0.4	-	0.1	0.3	-0.3	-0.4
May	0.2	0.5	0.1	0.2	0.1	-0.4	-0.3
Jun	0.2	0.3	-0.1	0.2	-	-0.5	-0.5
Jul	0.2	0.5	0.4	0.1	-0.1	-0.7	-0.3
Aug	0.2	0.6	0.5	0.3	-0.1	-0.9	-0.5
Sep	0.2	0.5	0.5	0.4	-0.7	-0.7	-0.6
Oct	-	0.7	0.6	0.4	-1.0	-0.6	-0.3
Nov	-0.6	0.8	1.2	0.5	-	-0.3	-0.3

### Percentage change, latest year on previous year

2011	-	-	-	-	-	-	-
2012	-	-	-	-	-	-	-
2013	-	-	-	-	-	-	-
2014	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-

### Percentage change, latest month on same month a year ago

2014 Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2015 Jan	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2016 Jan	0.2	0.1	-0.1	0.2	0.1	-	-0.3
Feb	0.2	0.2	-0.1	0.1	0.1	-0.1	-0.3
Mar	0.2	0.3	-0.2	-	-	-0.1	-0.2
Apr	0.2	0.4	-	0.1	0.3	-0.3	-0.4
May	0.2	0.4	0.1	0.2	-	-0.4	-0.4
Jun	0.1	0.3	-	0.2	-	-0.5	-0.6
Jul	0.1	0.6	0.4	0.1	-0.2	-0.6	-0.4
Aug	0.2	0.5	0.6	0.3	-0.2	-0.8	-0.5
Sep	0.2	0.5	0.5	0.4	-0.8	-0.7	-0.5
Oct	-	0.7	0.6	0.3	-1.2	-0.5	-0.2
Nov	-0.5	0.8	1.2	0.5	-	-0.2	-0.3

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

Section	Food products, beverages and tobacco	Textiles, wearing apparel and leather products	Wood and paper products and printing	Coke and refined petroleum products	Chemicals and chemical products	Basic pharmaceutical products and preparations
	CA	CB	CC	CD	CE	CF
Latest weight	114.2	25.4	51.0	9.2	39.8	58.7
	K22B	K22P	K22T	K22X	K22Z	K239

### Percentage change, latest month on previous month

2014	Sep	-	-	-	-	-	-
	Oct	-	-	-	-	-	-
	Nov	-	-	-	-	-	-
	Dec	-	-	-	-	-	-
2015	Jan	-	-	-	-	-	-
	Feb	-	-	-	-	-	-
	Mar	-	-	-	-	-	-
	Apr	-	-	-	-	-	-
	May	-	-	-	-	-	-
	Jun	-	-	-	-	-	-
	Jul	-	-	-	-	-	-
	Aug	-	-	-	-	-	-
	Sep	-	-	-	-	-	-
	Oct	-	-	-	-	-	-
	Nov	-	-	-	-	-	-
	Dec	-	-	-	-	-	-
2016	Jan	-0.1	0.2	0.6	-0.2	-0.1	1.5
	Feb	0.1	0.2	-0.2	-0.1	-	-0.2
	Mar	0.1	-0.2	0.1	-0.3	-	0.3
	Apr	0.7	0.1	0.1	-1.0	-	0.3
	May	-0.2	-0.1	0.1	1.1	0.6	-0.4
	Jun	-0.2	0.1	0.1	0.2	0.1	0.8
	Jul	-	-0.1	-0.1	-0.1	-0.1	-0.1
	Aug	-0.1	-0.1	0.1	-0.4	-	0.8
	Sep	-0.1	0.2	-0.1	0.5	0.7	1.0
	Oct	0.2	0.3	0.2	-0.1	-0.6	-0.3
	Nov	-0.1	-0.2	0.4	0.1	0.3	-0.9

### Percentage change, latest 3 months on same 3 months a year ago

2014	Sep	-	-	-	-	-	-
	Oct	-	-	-	-	-	-
	Nov	-	-	-	-	-	-
	Dec	-	-	-	-	-	-
2015	Jan	-	-	-	-	-	-
	Feb	-	-	-	-	-	-
	Mar	-	-	-	-	-	-
	Apr	-	-	-	-	-	-
	May	-	-	-	-	-	-
	Jun	-	-	-	-	-	-
	Jul	-	-	-	-	-	-
	Aug	-	-	-	-	-	-
	Sep	-	-	-	-	-	-
	Oct	-	-	-	-	-	-
	Nov	-	-	-	-	-	-
	Dec	-	-	-	-	-	-
2016	Jan	-	0.1	0.2	-0.1	-	0.5
	Feb	-0.1	0.2	0.3	-0.2	-0.1	1.0
	Mar	-0.1	0.3	0.5	-0.5	-0.1	1.6
	Apr	0.3	0.3	0.5	-0.9	-	1.8
	May	0.5	0.2	0.6	-1.1	0.1	1.9
	Jun	0.6	0.3	0.7	-1.0	0.3	2.2
	Jul	0.5	0.2	0.7	-0.7	0.6	2.1
	Aug	0.5	0.2	0.7	-0.6	0.7	2.6
	Sep	0.4	0.2	0.6	-0.7	0.9	3.1
	Oct	0.4	0.3	0.8	-0.6	0.9	3.5
	Nov	0.4	0.4	1.0	-0.6	1.1	3.5

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

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## Output of the Production Industries

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2013 = 100

Section	Rubber and plastic products and non-metallic mineral products	Basic metals and metal products	Computer, electronic and optical products	Electrical equipment	Machinery and equipment not elsewhere classified	Transport equipment	Other manufacturing and repair
	CG	CH	CI	CJ	CK	CL	CM
Latest weight	55.0	83.1	36.2	20.9	50.6	92.0	64.4
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z

### Percentage change, latest month on previous month

2014	Sep	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-
2015	Jan	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-
	Apr	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-
	Jun	-	-	-	-	-	-	-
	Jul	-	-	-	-	-	-	-
	Aug	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-
2016	Jan	0.3	0.1	-0.1	0.2	-	-	-0.3
	Feb	-	0.1	0.1	-0.1	0.1	-	-
	Mar	-	-	-0.2	-	-0.1	-0.1	-
	Apr	-	0.1	0.2	0.1	0.3	-0.1	-0.1
	May	-	0.1	0.2	0.1	-0.3	-0.1	-
	Jun	-	-0.1	-0.2	0.1	-	-0.1	-0.2
	Jul	-	0.2	0.4	-0.1	-0.3	-0.1	0.1
	Aug	0.1	0.1	-	0.2	-	-0.1	-0.2
	Sep	-	-0.1	-	0.1	-0.5	0.1	-0.1
	Oct	-0.2	0.2	0.1	-	-0.4	0.2	0.3
	Nov	-0.6	0.1	0.6	0.1	1.1	0.3	-

### Percentage change, latest 3 months on same 3 months a year ago

2014	Sep	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-
2015	Jan	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-
	Apr	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-
	Jun	-	-	-	-	-	-	-
	Jul	-	-	-	-	-	-	-
	Aug	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-
2016	Jan	0.1	0.1	-	0.1	-	-	-0.1
	Feb	0.1	0.1	-	0.1	0.1	-	-0.2
	Mar	0.2	0.2	-0.1	0.1	-	-	-0.3
	Apr	0.2	0.3	-0.1	0.1	0.1	-0.1	-0.2
	May	0.1	0.4	-	0.2	0.1	-0.3	-0.3
	Jun	0.2	0.4	-	0.2	0.1	-0.4	-0.4
	Jul	0.2	0.5	0.2	0.2	-0.1	-0.5	-0.4
	Aug	0.2	0.5	0.3	0.2	-0.1	-0.7	-0.4
	Sep	0.2	0.5	0.5	0.3	-0.3	-0.7	-0.5
	Oct	0.1	0.6	0.5	0.4	-0.7	-0.7	-0.5
	Nov	-0.1	0.6	0.8	0.4	-0.6	-0.4	-0.3

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	Food products, beverages and tobacco	Textiles, wearing apparel and leather products	Wood and paper products and printing	Coke and refined petroleum products	Chemicals and chemical products	Basic pharmaceutical products and preparations
Section	CA	CB	CC	CD	CE	CF
Latest weight	114.2	25.4	51.0	9.2	39.8	58.7
	K22B	K22P	K22T	K22X	K22Z	K239
<b>Percentage change, latest 3 months on previous 3 months</b>						
2014 Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2015 Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2016 Jan	-	0.1	0.2	-0.1	-0.1	0.5
Feb	-0.1	0.2	0.3	-0.2	-	1.0
Mar	-0.1	0.2	0.5	-0.4	-0.1	1.6
Apr	0.2	0.2	0.3	-0.8	-0.1	1.3
May	0.6	-	0.2	-0.7	0.2	0.9
Jun	0.7	-	0.1	-0.5	0.5	0.5
Jul	0.3	-	0.1	0.4	0.7	0.4
Aug	-	-	0.1	0.4	0.5	0.7
Sep	-0.1	-0.1	0.1	0.2	0.5	1.0
Oct	-0.1	0.1	0.2	-0.2	0.4	1.4
Nov	-0.1	0.2	0.3	0.1	0.4	1.0

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## Output of the Production Industries

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2013 = 100

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	CG	CH	CI	CJ	CK	CL	CM
Latest weight	55.0	83.1	36.2	20.9	50.6	92.0	64.4
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
<b>Percentage change, latest 3 months on previous 3 months</b>							
2014							
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2015							
Jan	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2016							
Jan	0.1	0.1	-	0.1	-	-	-0.1
Feb	0.2	0.1	-	0.1	-	-	-0.2
Mar	0.2	0.2	-0.2	0.1	0.1	-	-0.2
Apr	0.1	0.3	-0.1	0.1	0.1	-0.1	-0.1
May	-	0.3	-	0.1	0.1	-0.3	-0.2
Jun	-	0.1	0.2	0.1	0.1	-0.3	-0.1
Jul	-	0.1	0.3	0.1	-0.2	-0.4	-0.1
Aug	-	0.1	0.3	-	-0.3	-0.3	-0.1
Sep	-	0.2	0.5	-	-0.5	-0.3	-0.1
Oct	-	0.2	0.4	0.1	-0.6	-0.2	-
Nov	-0.3	0.2	0.5	0.2	-0.5	0.1	-

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**Next publication:** Friday 10 March 2017  
**Issued by:** Office for National Statistics, Government Buildings, Cardiff Road, Newport NP10 8XG

**Media contact:**  
Tel: Media Relations Office +44 (0) 845 6041858  
Emergency on-call +44 (0) 7867 906553  
Email: [press.office@ons.gsi.gov.uk](mailto:press.office@ons.gsi.gov.uk)

**Statistical contact:**  
Name: Alaa Al-Hamad  
Tel: Alaa Al-Hamad +44 (0) 1633 455648  
Email: [indexofproduction@ons.gsi.gov.uk](mailto:indexofproduction@ons.gsi.gov.uk)

**Contact us:**  
Tel: +44 (0) 845 601 3034  
Email: [info@ons.gsi.gov.uk](mailto:info@ons.gsi.gov.uk)  
Website: [www.statistics.gov.uk](http://www.statistics.gov.uk)  
Twitter: [www.twitter.com/statisticsONS](http://www.twitter.com/statisticsONS)