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# Statistical bulletin:UK index of production: Nov 2016

Measures the volume of production at base year prices for the manufacturing, mining and quarrying, energy supply, and water and waste management industries. These are seasonally adjusted figures on the index of output of the production industries.

This is the latest release

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Contact:

[Alaa Al-Hamad](#)

Release date:  
11 January 2017

Next release:  
10 February 2017

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### 1. Main points

In November 2016, total production was estimated to have increased by 2.1% compared with October 2016.

The increase in production was due to an increase in mining and quarrying output following the end of a maintenance period in the

oil and gas industry and an increase in manufacturing.

The monthly estimate of manufacturing increased by 1.3% in November 2016; the largest contribution came from pharmaceuticals, which increased by 11.4%. Pharmaceuticals can be highly erratic, with significant monthly changes, often due to the delivery of large contracts.

The month-on-same month a year ago estimate of total production increased by 2.0% in November 2016, with increases in all 4 main sectors; the largest contribution came from manufacturing, 1.2%.

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

This release has a revisions period back to October 2016. This means that we have incorporated additional data since this period.

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](#).

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](#)).

Care should be taken when using the month-on-month growth rates as data (for example, pharmaceuticals) can often be volatile, longer-term growth rates and examination of the time series allows for

better interpretation of the statistics.

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. However, the current price non-seasonally adjusted estimates of industries collected by the MBS can be found in today's publication of [Turnover in Production and Services Industries \(TOPSI\)](#).

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

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### **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 November 2016. The monthly estimate of total production in November 2016 increased by 2.1%. There were increases in 3 of the 4 main sectors. The largest contribution came from mining and quarrying, 8.2%. The month-on-same month a year ago estimate of total production increased by 2.0% in November 2016, with increases in all 4 main sectors. The largest contribution came from manufacturing, 1.2%.

**Table 1: Headline growth rates and contributions for the Index of Production, Nov 2016, UK**

Description <sup>1</sup>	% of production <sup>2</sup>	Month on previous month growth (%)	Contribution to production (% points)	Month on same month a year ago growth (%)	Contribution to production (% points)
IoP	100.0	2.1	2.08	2.0	2.01
Sector B	12.0	8.2	0.99	1.3	0.17
Sector C	70.0	1.3	0.91	1.2	0.83
Sector D	10.4	1.9	0.19	4.9	0.47
Sector E	7.5	-0.1	-0.01	7.1	0.54

Source: Office for National Statistics

Notes:

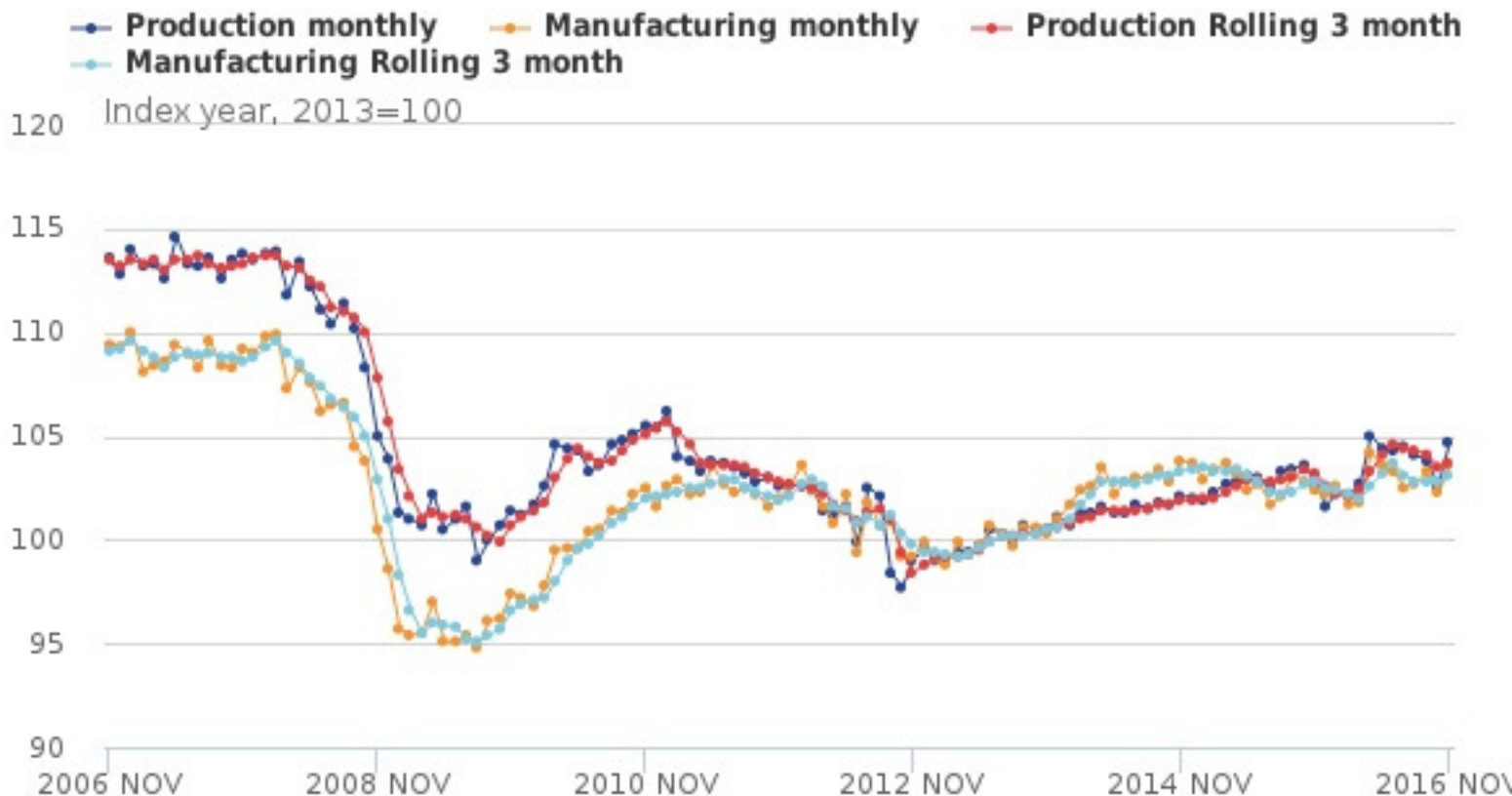
1: IoP Total Index of Production; Sector B mining and quarrying; and within this, Division 06 oil and gas extraction; Sector C manufacturing; Sector D electricity, gas, steam and air conditioning; and Sector E water supply, sewerage and waste management.

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

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**Figure 1: Seasonally adjusted production and manufacturing, Nov 2006 to Nov 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. 24th Jun 2016 - the result of the EU referendum was announced.

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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 the pre-downturn peak.

## 4. What is contributing to the month-on-month increase of 2.1%?

The monthly estimate of total production increased by 2.1% in November 2016 (Table 2). This followed a decrease of 1.1% in the previous month. The increase in total production was mainly due to increased oil and gas output, with the [Buzzard oil field](#) coming back online after a prolonged shutdown, along with increased output from the other fields. In addition, pharmaceuticals (which can be highly erratic) also saw large growth. The increase of 1.9% in electric power generation, transmission and distribution also provided an upward contribution to total production and was due to the lower than average temperature in November 2016.

**Table 2: Growths and contributions to production, month-on-previous month, November 2016, UK**

Sector	Summary description	Month on previous month growth (percentage)	Contribution to production (percentage points)
IoP	Index of Production	2.1	2.08
Sector B	Total Mining and Quarrying	8.2	0.99
5	Coal and Lignite	-2.4	0.00
6	Crude petroleum and Natural gas	10.3	1.00
789	Other mining and quarrying	-0.3	-0.01
Sector C	Total Manufacturing	1.3	0.91
CA	Food, beverages and tobacco	0.3	0.03
CB	Textiles and leather products	0.5	0.01



CC	Wood, paper and printing	1.4	0.07
CD	Coke and petroleum	1.3	0.01
CE	Chemical products	-0.6	-0.02
CF	Pharmaceutical products	11.4	0.60
CG	Rubber and plastic products	2.1	0.12
CH	Metal products	1.0	0.08
CI	Computer, electronic and optical	-0.5	-0.02
CJ	Electrical equipment	3.3	0.06
CK	Machinery and equipment	0.9	0.04
CL	Transport equipment	1.0	0.10
CM	Other manufacturing and repair	-2.7	-0.18
Sector D	Total Electricity and Gas	1.9	0.19
35.1	Electric power generation, transmission and distribution	1.9	0.12
35.2-3	Manufacture of gas; distribution of gaseous fuels through mains; steam and aircon supply	1.9	0.06
Sector E	Total Water	-0.1	-0.01
36	Water collection, treatment and supply	-0.2	0.00
37	Sewerage	-1.1	-0.03
38	Waste collection, treatment and disposal activities; materials recovery	0.7	0.02
39	Remediation activities and other waste management services	1.8	0.00

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Source: Office for National Statistics

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## 5. What is contributing to the month-on-same month a year ago increase of 2.0%?

Table 3 shows that in November 2016 compared with November 2015, total production output increased by 2.0% on a year ago. The biggest contributions to growth came from pharmaceuticals, transport equipment, and rubber and plastic products. Increased exports were highlighted as a contributing factor to the increases in pharmaceuticals and motor vehicles, trailers and semi-trailers within transport equipment, when compared with a year ago. We publish non-seasonally adjusted export proportions in current prices as part of this release.

**Table 3: Growths and contributions to production, month-on-same month a year ago, November 2016, UK**

Sector	Summary description	Month on same month a year ago growth (percentage)	Contribution to production (percentage points)
IoP	Index of Production	2.0	2.01
Sector B	Total Mining and Quarrying	1.3	0.17
5	Coal and Lignite	-46.2	-0.02
6	Crude petroleum and Natural gas	1.6	0.16
789	Other mining and quarrying	0.9	0.01
Sector C	Total Manufacturing	1.2	0.83
CA	Food, beverages and tobacco	-0.4	-0.05

CB	Textiles and leather products	-3.8	-0.09
CC	Wood, paper and printing	-1.3	-0.07
CD	Coke and petroleum	-5.6	-0.05
CE	Chemical products	-4.1	-0.17
CF	Pharmaceutical products	8.2	0.44
CG	Rubber and plastic products	4.3	0.25
CH	Metal products	0.3	0.02
CI	Computer, electronic and optical	1.6	0.06
CJ	Electrical equipment	-1.6	-0.03
CK	Machinery and equipment	4.2	0.18
CL	Transport equipment	2.7	0.27
CM	Other manufacturing and repair	1.1	0.07
Sector D	Total Electricity and Gas	4.9	0.47
35.1	Electric power generation, transmission and distribution	-2.5	-0.17
35.2-3	Manufacture of gas; distribution of gaseous fuels through mains; steam and aircon supply	23.7	0.64
Sector E	Total Water	7.1	0.54
36	Water collection, treatment and supply	0.7	0.01
37	Sewerage	7.9	0.18
38	Waste collection, treatment and disposal activities; materials recovery	10.8	0.34
39	Remediation activities and other waste management services	11.6	0.01

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Source: Office for National Statistics

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## 6. 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 release [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.

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## 7. What's new?

This is the first Index of Production statistical bulletin released as part of the short term indicators theme day. As such this bulletin now follows a more streamlined format and some tables such as response rates table, previously found in the background notes, can now be found in the main reference tables. For direct links to additional content published as part of this release, see section 8,

quality and methodology.

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 November 2016, with data available for output in production, construction and the trade balance.

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## 8. Quality and methodology

The majority of data used to compile the manufacturing sector, and thus the Index of Production, 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 [Turnover in Production and Services Industries \(TOPSI\)](#) is published alongside this release, providing current price estimates for industries collected by the Monthly Business Survey.

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

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

A revised version of this document is available this month.

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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
2011	103.5	115.3	102.5	101.0	96.0	126.9	104.0	104.9	97.7	100.6	113.7
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
2015 Q3	103.0	112.7	102.3	94.9	105.0	114.4	105.2	100.7	101.3	104.7	103.4
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	108.9	102.0	93.6	108.1	111.4	105.0	100.1	101.6	103.4	101.2
2016 Q2	104.6	111.9	103.7	98.0	110.6	114.7	106.4	101.8	104.5	104.0	104.4
2016 Q3	104.1	116.8	102.8	93.9	110.4	120.4	107.4	99.1	104.1	104.0	105.2
2015 Sep	103.4	111.2	103.1	96.1	103.3	112.9	104.8	101.6	103.0	104.5	103.3
2015 Oct	103.6	112.9	102.8	97.0	104.9	114.3	102.9	102.8	101.3	104.4	104.6
2015 Nov	102.7	110.9	102.4	93.6	104.6	113.0	105.8	100.8	101.1	104.0	102.5
2015 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	106.0	102.6	92.4	108.0	107.5	106.1	99.6	102.9	104.3	99.2
2016 Feb	102.2	110.3	101.7	92.5	107.6	113.3	104.6	101.0	99.9	103.1	101.5
2016 Mar	102.7	110.3	101.8	95.9	108.8	113.6	104.2	99.8	101.9	102.7	102.9
2016 Apr	105.0	111.7	104.2	100.0	109.4	114.7	106.6	103.3	104.2	104.3	105.1
2016 May	104.4	111.2	103.6	97.1	111.1	113.6	107.3	101.7	104.0	104.2	103.9
2016 Jun	104.3	112.9	103.3	96.7	111.2	115.7	105.3	100.3	105.2	103.6	104.2
2016 Jul	104.5	120.5	102.5	94.9	111.3	125.2	106.9	98.8	103.5	103.9	107.6
2016 Aug	104.1	117.1	102.7	94.3	110.4	120.7	108.0	99.1	104.1	103.8	105.4
2016 Sep	103.8	112.7	103.3	92.4	109.7	115.3	107.3	99.5	104.7	104.4	102.5
2016 Oct	102.6 <sup>†</sup>	103.8 <sup>†</sup>	102.3	96.4 <sup>†</sup>	112.2 <sup>†</sup>	104.0 <sup>†</sup>	107.3	97.7 <sup>†</sup>	103.3 <sup>†</sup>	104.5 <sup>†</sup>	99.7 <sup>†</sup>
2016 Nov	104.7	112.3	103.6	98.2	112.1	114.7	107.0	101.0	103.0	105.7	105.0

## Percentage change, latest year on previous year

2011	-0.6	-14.3	2.2	-6.1	5.7	-18.4	0.3	-0.2	6.8	0.7	-10.6
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

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

2014 Sep	1.1	-1.5	2.8	-4.1	-1.9	-4.5	9.1	0.8	3.7	4.1	-4.2
2014 Oct	1.3	2.9	2.1	-2.9	-2.1	2.3	8.8	0.8	2.8	2.0	-0.2
2014 Nov	1.6	0.6	3.5	-8.1	-1.4	-1.2	8.4	2.5	4.7	3.3	-4.2
2014 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
2015 Feb	0.9	-1.5	0.9	6.8	-2.2	-5.7	0.8	-1.2	1.0	3.6	0.8
2015 Mar	1.4	0.9	1.1	4.4	0.9	-0.7	4.1	1.3	-0.5	2.5	1.3
2015 Apr	1.2	7.6	-0.3	1.9	4.1	9.6	0.9	-2.5	-0.6	1.5	4.9
2015 May	1.7	9.3	0.2	1.3	4.2	12.8	2.7	0.6	-0.7	0.1	5.8
2015 Jun	1.6	11.2	-0.1	-1.3	6.9	15.0	5.4	-0.9	-1.5	1.7	5.4
2015 Jul	0.7	11.1	-1.3	-3.4	8.3	13.9	1.0	0.2	-4.0	-0.3	4.3
2015 Aug	1.8	19.9	-0.8	-3.1	5.5	26.3	-2.4	-1.0	-0.4	-1.0	9.5
2015 Sep	1.5	9.6	-0.3	3.0	3.6	13.2	-4.4	1.0	-0.9	-1.2	7.1
2015 Oct	1.8	9.7	-	3.5	4.0	12.8	-5.0	2.8	-1.8	-0.5	7.5
2015 Nov	0.6	10.9	-1.4	0.4	3.1	16.3	-3.2	-0.5	-3.1	-1.7	7.4
2015 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	0.4	2.9	-0.3	-3.5	8.6	6.7	-3.1	-1.2	2.2	-2.1	0.9
2016 Feb	-	9.6	-1.6	-4.7	6.0	16.5	-0.2	0.9	-2.6	-4.0	4.0
2016 Mar	-	6.1	-1.8	0.8	6.6	11.1	-2.6	-2.3	-	-4.0	4.7
2016 Apr	2.2	2.9	1.0	8.2	4.8	5.1	0.3	3.8	1.4	-2.3	5.2
2016 May	1.3	-2.2	1.1	2.9	6.5	-2.0	2.4	-	3.0	-0.4	0.4
2016 Jun	1.3	2.4	0.6	2.8	4.6	4.0	-3.9	1.7	2.3	-2.4	2.9
2016 Jul	2.1	9.4	0.7	0.9	3.6	13.2	0.3	-1.7	4.5	-1.3	6.1
2016 Aug	0.8	0.3	0.6	-0.5	5.9	0.9	3.8	-0.8	2.2	-0.7	-0.2
2016 Sep	0.4	1.3	0.1	-3.8	6.2	2.1	2.4	-2.1	1.7	-0.1	-0.7
2016 Oct	-0.9 <sup>†</sup>	-8.0 <sup>†</sup>	-0.5 <sup>†</sup>	-0.6 <sup>†</sup>	6.9 <sup>†</sup>	-9.0 <sup>†</sup>	4.7 <sup>†</sup>	-5.0 <sup>†</sup>	2.0 <sup>†</sup>	0.1 <sup>†</sup>	-4.6 <sup>†</sup>
2016 Nov	2.0	1.3	1.2	4.9	7.1	1.6	1.2	0.2	1.9	1.6	2.5

<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	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 Sep	0.4	4.3	0.4	-4.6	0.9	5.2	2.8	-0.3	1.6	0.1	0.1
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	0.9	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	2.2	2.2	6.8	-0.7	-2.6	0.9	-0.2	1.6
May	0.3	4.6	-0.7	-2.9	-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	0.7	-0.6	0.4	4.9	1.0	-0.6	0.1	-1.4	0.5	1.8	1.6
Feb	-0.1	4.0	-0.9	0.1	-0.4	5.4	-1.4	1.4	-2.8	-1.1	2.3
Mar	0.5	-0.1	0.1	3.6	1.1	0.2	-0.4	-1.2	1.9	-0.4	1.4
Apr	2.2	1.3	2.3	4.3	0.6	1.0	2.3	3.5	2.3	1.6	2.1
May	-0.6	-0.5	-0.6	-2.8	1.5	-0.9	0.7	-1.5	-0.3	-0.1	-1.2
Jun	-	1.6	-0.3	-0.4	0.1	1.8	-1.9	-1.3	1.2	-0.6	0.3
Jul	0.2	6.8	-0.8	-1.9	0.1	8.2	1.5	-1.6	-1.6	0.3	3.2
Aug	-0.3	-2.9	0.2	-0.6	-0.8	-3.6	1.0	0.4	0.6	-0.1	-2.1
Sep	-0.4	-3.8	0.6	-2.0	-0.6	-4.5	-0.6	0.4	0.6	0.5	-2.7
Oct	-1.1 <sup>†</sup>	-7.9 <sup>†</sup>	-1.0 <sup>†</sup>	4.3 <sup>†</sup>	2.3 <sup>†</sup>	-9.8 <sup>†</sup>	0.4 <sup>†</sup>	-1.8 <sup>†</sup>	-1.4 <sup>†</sup>	0.1 <sup>†</sup>	-2.7 <sup>†</sup>
Nov	2.1	8.2	1.3	1.9	-0.1	10.3	-0.6	3.4	-0.2	1.1	5.3
<b>Percentage change, latest 3 months on same 3 months a year ago<sup>2</sup></b>											
2014 Sep	1.4	-2.4	2.9	-0.2	-3.3	-5.5	7.0	0.7	3.1	5.4	-3.4
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	0.2	7.0	-1.0	-3.6	6.5	11.8	-4.0	-0.5	-1.0	-2.4	3.4
Feb	-	6.6	-1.1	-5.3	7.5	11.9	-3.1	-	-0.8	-3.2	2.2
Mar	0.1	6.2	-1.2	-2.5	7.1	11.4	-2.0	-0.9	-0.1	-3.4	3.2
Apr	0.7	6.1	-0.8	1.3	5.8	10.7	-0.8	0.8	-0.4	-3.5	4.6
May	1.2	2.2	0.1	3.9	6.0	4.5	-	0.5	1.4	-2.3	3.4
Jun	1.6	1.0	0.9	4.6	5.3	2.3	-0.5	1.8	2.2	-1.7	2.8
Jul	1.6	3.2	0.8	2.2	4.9	5.0	-0.5	-	3.2	-1.4	3.1
Aug	1.4	4.0	0.6	1.1	4.7	5.9	-	-0.3	3.0	-1.5	2.9
Sep	1.1	3.6	0.5	-1.1	5.2	5.3	2.1	-1.5	2.8	-0.7	1.7
Oct	0.1 <sup>†</sup>	-2.1 <sup>†</sup>	0.1	-1.6 <sup>†</sup>	6.3 <sup>†</sup>	-2.0 <sup>†</sup>	3.6	-2.6 <sup>†</sup>	1.9 <sup>†</sup>	-0.2 <sup>†</sup>	-1.9 <sup>†</sup>
Nov	0.5	-1.8	0.3	0.1	6.7	-1.8	2.7	-2.3	1.9	0.5	-1.0

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	Sep	0.2	-2.0	0.3	3.3	-0.7	-2.5	3.3	-0.3	-	0.9	0.3
	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	-1.2	-5.0	-0.3	-4.7	2.3	-5.3	2.0	-0.9	0.1	-0.8	-4.5
	Feb	-1.1	-3.5	-0.6	-4.7	3.1	-3.3	1.0	-1.2	-	-0.9	-3.9
	Mar	-0.2	-1.2	-0.4	0.8	2.5	-0.3	0.1	-1.4	-	-0.2	-0.4
	Apr	1.1	2.7	0.2	5.2	2.0	3.9	-0.8	0.9	-0.1	-0.2	3.4
	May	1.9	3.1	1.0	7.3	2.1	3.9	0.4	1.0	1.6	0.4	4.6
	Jun	2.1	2.8	1.6	4.6	2.3	2.9	1.3	1.6	2.9	0.6	3.2
	Jul	1.0	3.7	0.5	0.1	2.4	3.8	1.3	-1.1	2.2	0.5	2.0
	Aug	0.3	5.2	-0.4	-2.4	1.1	5.8	0.7	-2.1	0.9	-	1.7
	Sep	-0.4	4.3	-0.8	-4.2	-0.1	5.0	1.0	-2.6	-0.4	-	0.7
	Oct	-0.9	-3.2 <sup>†</sup>	-0.3	-2.0 <sup>†</sup>	-0.4 <sup>†</sup>	-4.1 <sup>†</sup>	1.1	-1.5 <sup>†</sup>	-0.2 <sup>†</sup>	0.3 <sup>†</sup>	-2.6 <sup>†</sup>
	Nov	-0.6	-6.2	0.3	0.4	0.3	-7.6	0.6	-	-0.6	1.0	-3.1

<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
2011	104.4	108.3	103.3	113.4	103.1	109.1
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
2015 Q3	104.1	95.2	100.8	97.3	108.9	96.3
Q4	104.6	96.5	101.6	101.0	108.2	96.9
2016 Q1	104.2	92.4	100.5	89.9	105.2	94.3
Q2	104.5	91.5	102.3	90.9	105.1	99.0
Q3	104.5	95.0	100.6	92.3	106.4	92.5
2015 Sep	104.8	96.5	101.7	98.5	108.9	97.2
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	104.5	97.4	101.6	93.9	106.2	89.6
Feb	105.1	90.9	99.8	91.7	104.7	96.5
Mar	103.0	88.9	100.2	83.9	104.6	96.8
Apr	103.9	94.3	101.6	85.5	106.2	104.7
May	105.4	88.3	103.3	92.9	105.1	97.1
Jun	104.3	92.1	101.8	94.3	103.9	95.2
Jul	104.1	94.8	100.6	92.1	106.3	90.7
Aug	104.3	95.5	100.7	90.4	105.6	92.3
Sep	105.0	94.7	100.6	94.3	107.2	94.4
Oct	103.9	91.8 <sup>†</sup>	100.1 <sup>†</sup>	96.3 <sup>†</sup>	105.8 <sup>†</sup>	91.7 <sup>†</sup>
Nov	104.2	92.3	101.5	97.6	105.2	102.2

## Percentage change, latest year on previous year

2011	6.6	1.4	-5.6	1.4	6.8	-13.5
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

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

2014 Sep	6.1	-6.0	2.5	-5.2	3.1	-6.8
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	-0.3	5.6	-2.1	2.9	-2.4	-4.9
Feb	0.6	-6.2	-2.9	-2.9	-6.1	4.5
Mar	-1.2	-10.8	-2.1	-3.1	-5.0	-1.2
Apr	1.0	-4.3	-0.4	-0.4	-4.7	13.2
May	2.4	-13.3	2.6	8.3	-1.3	-3.0
Jun	1.5	-8.7	2.2	12.7	-3.6	4.8
Jul	0.7	-4.0	0.5	-4.5	-2.3	-5.6
Aug	0.2	5.6	0.1	-6.6	-3.0	-3.4
Sep	0.2	-1.9	-1.0	-4.2	-1.6	-3.0
Oct	-0.8	-6.5 <sup>†</sup>	-0.9 <sup>†</sup>	-6.1 <sup>†</sup>	-2.7 <sup>†</sup>	-8.7 <sup>†</sup>
Nov	-0.4	-3.8	-1.3	-5.6	-4.1	8.2

<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.

# 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
2011	107.3	100.0	101.6	94.6	112.2	89.0	102.1
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
2015 Q3	109.1	100.6	101.9	98.2	89.6	110.2	102.3
Q4	109.5	99.3	100.6	97.0	88.2	112.0	102.0
2016 Q1	111.0	100.9	98.9	94.3	88.6	110.1	107.2
Q2	113.5	99.7	100.8	91.7	90.2	116.3	108.1
Q3	111.6	99.7	100.8	89.8	90.8	114.4	108.3
2015 Sep	109.4	100.4	101.7	99.8	90.8	111.3	104.5
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	111.7	101.6	101.7	95.0	88.3	111.5	108.0
Feb	110.8	100.6	97.9	95.1	87.3	107.8	106.4
Mar	110.5	100.6	97.1	92.8	90.3	111.1	107.1
Apr	114.3	99.2	99.8	93.5	92.0	117.0	106.6
May	113.3	99.9	101.7	90.0	89.8	116.6	107.0
Jun	112.7	99.9	100.9	91.6	88.7	115.4	110.5
Jul	111.5	100.0	100.2	89.8	90.2	113.5	108.6
Aug	111.1	99.3	101.4	89.0	91.3	115.8	106.5
Sep	112.3	99.7	100.8	90.7	90.8	113.9	109.7
Oct	111.5 †	98.4 †	101.7 †	92.4 †	90.4 †	113.3 †	108.1 †
Nov	113.8	99.4	101.2	95.4	91.2	114.4	105.2

## Percentage change, latest year on previous year

2011	-0.2	4.4	-1.3	-3.8	8.6	10.2	5.4
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

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

2014 Sep	12.4	-	11.0	-2.6	2.7	1.7	3.9
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	0.9	-2.1	-0.7	-1.8	-5.9	4.8	2.7
Feb	0.1	-4.4	-2.8	-3.3	-8.7	-0.1	1.6
Mar	-0.6	-3.6	-5.4	-6.5	-3.8	3.6	0.4
Apr	3.6	-5.1	-2.8	-6.0	-3.8	8.6	-0.1
May	4.1	0.1	0.8	-8.7	-0.5	6.1	3.1
Jun	2.9	-5.2	-6.2	-7.1	-1.9	5.2	5.8
Jul	1.5	0.3	-1.9	-7.6	1.8	5.6	6.8
Aug	2.8	-2.4	-0.5	-8.8	2.3	3.5	5.9
Sep	2.7	-0.7	-0.8	-9.1	-	2.3	5.0
Oct	1.6 †	-1.8 †	1.5 †	-5.7 †	3.2 †	-0.1 †	10.1 †
Nov	4.3	0.3	1.6	-1.6	4.2	2.7	1.1

<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	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 Sep	-0.5	0.6	-0.6	1.0	4.0	-1.8
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	-0.1	2.0	0.9	-3.4	0.1	-6.3
Feb	0.6	-6.7	-1.8	-2.4	-1.4	7.6
Mar	-2.0	-2.2	0.4	-8.4	-0.1	0.3
Apr	0.8	6.1	1.4	1.8	1.4	8.3
May	1.5	-6.3	1.6	8.7	-1.0	-7.3
Jun	-1.0	4.2	-1.4	1.5	-1.1	-1.9
Jul	-0.2	3.0	-1.2	-2.3	2.3	-4.8
Aug	0.2	0.7	0.1	-1.9	-0.6	1.8
Sep	0.7	-0.9	-	4.4	1.5	2.2
Oct	-1.1 <sup>†</sup>	-3.0 <sup>†</sup>	-0.5 <sup>†</sup>	2.1 <sup>†</sup>	-1.3 <sup>†</sup>	-2.8 <sup>†</sup>
Nov	0.3	0.5	1.4	1.3	-0.6	11.4
<b>Percentage change, latest 3 months on same 3 months a year ago</b>						
2014 Sep	3.9	-7.0	2.1	-10.3	2.5	-1.7
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	5.0	-0.2	6.6	1.5	-2.0
Feb	-0.4	1.9	-1.4	0.9	-2.1	-0.2
Mar	-0.3	-4.0	-2.4	-1.0	-4.5	-0.6
Apr	0.1	-7.1	-1.8	-2.2	-5.3	5.4
May	0.7	-9.5	-	1.6	-3.7	2.8
Jun	1.6	-8.8	1.4	6.8	-3.2	4.8
Jul	1.5	-8.7	1.7	5.1	-2.4	-1.4
Aug	0.8	-2.6	0.9	-0.1	-3.0	-1.5
Sep	0.4	-0.2	-0.1	-5.1	-2.3	-4.0
Oct	-0.1	-1.1 <sup>†</sup>	-0.6 <sup>†</sup>	-5.7	-2.4 <sup>†</sup>	-5.1 <sup>†</sup>
Nov	-0.4	-4.1	-1.1	-5.3	-2.8	-1.3

<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.

# 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
<b>Percentage change, latest month on previous month</b>							
2014 Sep	-1.0	-1.2	6.2	4.5	1.9	2.9	-3.3
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	1.9	3.2	-0.4	-1.1	-1.2	0.3	3.9
Feb	-0.8	-0.9	-3.7	0.1	-1.1	-3.3	-1.4
Mar	-0.3	-	-0.8	-2.4	3.5	3.0	0.6
Apr	3.5	-1.4	2.8	0.7	1.8	5.3	-0.4
May	-0.9	0.7	1.9	-3.7	-2.3	-0.3	0.4
Jun	-0.5	-0.1	-0.8	1.7	-1.3	-1.0	3.3
Jul	-1.1	0.1	-0.7	-2.0	1.8	-1.7	-1.7
Aug	-0.4	-0.7	1.3	-0.8	1.2	2.0	-1.9
Sep	1.1	0.4	-0.6	1.9	-0.6	-1.6	3.0
Oct	-0.7 <sup>†</sup>	-1.3 <sup>†</sup>	0.9 <sup>†</sup>	1.8 <sup>†</sup>	-0.4 <sup>†</sup>	-0.6 <sup>†</sup>	-1.5 <sup>†</sup>
Nov	2.1	1.0	-0.5	3.3	0.9	1.0	-2.7
<b>Percentage change, latest 3 months on same 3 months a year ago</b>							
2014 Sep	12.9	1.9	6.5	-4.1	3.8	1.9	5.6
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	-2.6	-3.1	-5.4	-1.9	-10.3	4.7	-0.7
Feb	-1.2	-3.4	-4.5	-2.9	-8.8	3.0	1.4
Mar	0.1	-3.4	-3.0	-3.9	-6.1	2.7	1.6
Apr	1.0	-4.4	-3.7	-5.3	-5.4	4.0	0.6
May	2.4	-2.9	-2.5	-7.1	-2.7	6.1	1.1
Jun	3.5	-3.5	-2.8	-7.3	-2.1	6.6	2.9
Jul	2.8	-1.7	-2.5	-7.8	-0.2	5.6	5.2
Aug	2.4	-2.5	-2.9	-7.8	0.7	4.8	6.1
Sep	2.3	-0.9	-1.1	-8.5	1.3	3.8	5.9
Oct	2.4 <sup>†</sup>	-1.6	0.1 <sup>†</sup>	-7.9	1.8 <sup>†</sup>	1.9 <sup>†</sup>	7.0
Nov	2.9	-0.7	0.7	-5.5	2.4	1.6	5.3

<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.



# 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 Sep	0.8	-8.6	1.9	-2.1	0.5	0.3
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	-	1.3	0.7	-1.1	-1.3	-4.6
Feb	-	-2.4	-1.1	-7.1	-3.1	-3.6
Mar	-0.4	-4.3	-1.0	-11.0	-2.7	-2.7
Apr	-0.5	-5.1	-1.2	-11.3	-2.0	6.5
May	-0.6	-4.3	1.0	-7.3	-0.4	6.0
Jun	0.3	-0.9	1.7	1.2	-0.2	5.0
Jul	0.6	0.4	1.4	7.0	-0.1	-5.0
Aug	0.1	4.0	-0.6	5.5	-	-6.8
Sep	-0.1	3.8	-1.6	1.5	1.3	-6.6
Oct	-0.2	2.5 <sup>†</sup>	-1.4 <sup>†</sup>	0.6 <sup>†</sup>	1.0 <sup>†</sup>	-1.6 <sup>†</sup>
Nov	0.1	-1.3	-0.3	4.1	0.7	3.6

<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.

# 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
<b>Percentage change, latest 3 months on previous 3 months</b>							
2014							
Sep	1.2	0.4	3.2	-1.6	-1.5	-0.7	2.7
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	1.0	-1.1	-0.2	-2.5	-1.0	-0.8	4.2
Feb	1.2	0.3	-	-2.9	-0.4	-1.7	3.8
Mar	1.4	1.7	-1.7	-2.8	0.5	-1.7	5.0
Apr	1.6	0.4	-2.8	-2.3	1.7	0.5	1.3
May	1.8	-0.3	-1.0	-3.5	2.7	4.3	0.8
Jun	2.2	-1.2	1.9	-2.8	1.7	5.6	0.8
Jul	0.5	-0.2	2.7	-3.6	-0.3	2.9	1.9
Aug	-0.9	-0.2	1.3	-2.1	-0.7	-	1.5
Sep	-1.6	-	-	-2.0	0.7	-1.7	0.2
Oct	-0.8 †	-0.8 †	0.4 †	0.3 †	1.4 †	-0.7	-0.6 †
Nov	0.7	-0.6 †	0.4	3.0	0.8	-0.9	-0.8

<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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- [Page 1](#) Output by Broad industry groups and Main industrial groupings  
Percentage change, latest year on previous year  
Percentage change, latest month on same month a year ago
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Percentage change, latest 3 months on same 3 months a year ago
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- [Page 9](#) Percentage change, latest 3 months on previous 3 months part 2
- [Enquiries](#)

# 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
2011	-	-	-	-	-	-	-	-	-	-	-
2012	-	-	-	-	-	-	-	-	-	-	-
2013	-	-	-	-	-	-	-	-	-	-	-
2014	-	-	-	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-	-	-	-
2015 Q3	-	-	-	-	-	-	-	-	-	-	-
2015 Q4	-	-	-	-	-	-	-	-	-	-	-
2016 Q1	-	-	-	-	-	-	-	-	-	-	-
2016 Q2	-	-	-	-	-	-	-	-	-	-	-
2016 Q3	-	-	-	-	-	-	-	-	-	-	-
2015 Aug	-	-	-	-	-	-	-	-	-	-	-
2015 Sep	-	-	-	-	-	-	-	-	-	-	-
2015 Oct	-	-	-	-	-	-	-	-	-	-	-
2015 Nov	-	-	-	-	-	-	-	-	-	-	-
2015 Dec	-	-	-	-	-	-	-	-	-	-	-
2016 Jan	-	-	-	-	-	-	-	-	-	-	-
2016 Feb	-	-	-	-	-	-	-	-	-	-	-
2016 Mar	-	-	-	-	-	-	-	-	-	-	-
2016 Apr	-	-	-	-	-	-	-	-	-	-	-
2016 May	-	-	-	-	-	-	-	-	-	-	-
2016 Jun	-	-	-	-	-	-	-	-	-	-	-
2016 Jul	-	-	-	-	-	-	-	-	-	-	-
2016 Aug	-	-	-	-	-	-	-	-	-	-	-
2016 Sep	-	-	-	-	-	-	-	-	-	-	-
2016 Oct	0.2	0.8	-	0.8	0.5	1.1	-	0.3	-0.1	-0.2	0.8

### Percentage change, latest year on previous year

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

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

2014 Aug	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-
2016 Feb	-	-	-	-	-	-	-	-	-	-	-
2016 Mar	-	-	-	-	-	-	-	-	-	-	-
2016 Apr	-	-	-	-	-	-	-	-	-	-	-
2016 May	-	-	-	-	-	-	-	-	-	-	-
2016 Jun	-	-	-	-	-	-	-	-	-	-	-
2016 Jul	-	-	-	-	-	-	-	-	-	-	-
2016 Aug	-	-	-	-	-	-	-	-	-	-	-
2016 Sep	-	-	-	-	-	-	-	-	-	-	-
2016 Oct	0.2	0.7	-0.1	0.8	0.4	1.0	0.1	0.3	-0.1	-0.3	0.8

<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

**Percentage change, latest month on previous month**

2014 Aug	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-
2016 Feb	-	-	-	-	-	-	-	-	-	-	-
2016 Mar	-	-	-	-	-	-	-	-	-	-	-
2016 Apr	-	-	-	-	-	-	-	-	-	-	-
2016 May	-	-	-	-	-	-	-	-	-	-	-
2016 Jun	-	-	-	-	-	-	-	-	-	-	-
2016 Jul	-	-	-	-	-	-	-	-	-	-	-
2016 Aug	-	-	-	-	-	-	-	-	-	-	-
2016 Sep	-	-	-	-	-	-	-	-	-	-	-
2016 Oct	0.2	0.7	-0.1	0.8	0.5	1.0	0.1	0.3	-0.2	-0.2	0.8

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

2014 Aug	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-
2016 Feb	-	-	-	-	-	-	-	-	-	-	-
2016 Mar	-	-	-	-	-	-	-	-	-	-	-
2016 Apr	-	-	-	-	-	-	-	-	-	-	-
2016 May	-	-	-	-	-	-	-	-	-	-	-
2016 Jun	-	-	-	-	-	-	-	-	-	-	-
2016 Jul	-	-	-	-	-	-	-	-	-	-	-
2016 Aug	-	-	-	-	-	-	-	-	-	-	-
2016 Sep	-	-	-	-	-	-	-	-	-	-	-
2016 Oct	0.1	0.2	-	0.3	0.1	0.3	-	0.1	-0.1	-0.1	0.2

<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.

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	Aug	-	-	-	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-	-
2015	Jan	-	-	-	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-	-	-	-
	Apr	-	-	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-	-	-
	Jun	-	-	-	-	-	-	-	-	-	-
	Jul	-	-	-	-	-	-	-	-	-	-
	Aug	-	-	-	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-	-
2016	Jan	-	-	-	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-	-	-	-
	Apr	-	-	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-	-	-
	Jun	-	-	-	-	-	-	-	-	-	-
	Jul	-	-	-	-	-	-	-	-	-	-
	Aug	-	-	-	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-	-	-	-
	Oct	-	0.2	-	0.2	0.1	0.3	-	0.1	-0.1	0.2

<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.

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
2011	-	-	-	-	-	-
2012	-	-	-	-	-	-
2013	-	-	-	-	-	-
2014	-	-	-	-	-	-
2015	-	-	-	-	-	-
2015 Q3	-	-	-	-	-	-
Q4	-	-	-	-	-	-
2016 Q1	-	-	-	-	-	-
Q2	-	-	-	-	-	-
Q3	-	-	-	-	-	-
2015 Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2016 Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	0.9	0.2	0.2	-0.5	0.7

**Percentage change, latest year on previous year**

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

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

2014 Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2015 Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2016 Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	1.0	0.3	0.1	-0.5	0.7

<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	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
2011	-	-	-	-	-	-	-
2012	-	-	-	-	-	-	-
2013	-	-	-	-	-	-	-
2014	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-
2015 Q3	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-
2016 Q1	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-
2015 Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2016 Jan	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-0.3	-0.2	0.2	0.2	-0.4	-0.3	-0.2

**Percentage change, latest year on previous year**

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

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

2014 Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2015 Jan	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2016 Jan	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-0.3	-0.2	0.2	0.2	-0.4	-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 Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2015 Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2016 Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-0.1	1.0	0.3	0.2	-0.4	0.8

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

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

<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>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 Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2015 Jan	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2016 Jan	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-0.3	-0.2	0.2	0.2	-0.4	-0.3	-0.2

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

2014 Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2015 Jan	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2016 Jan	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-0.1	-	0.1	-	-0.1	-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.

	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 Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2015 Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2016 Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	0.4	0.1	0.1	-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	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	Aug	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-
2015	Jan	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-
	Apr	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-
	Jun	-	-	-	-	-	-	-
	Jul	-	-	-	-	-	-	-
	Aug	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-
2016	Jan	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-
	Apr	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-
	Jun	-	-	-	-	-	-	-
	Jul	-	-	-	-	-	-	-
	Aug	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-
	Oct	-0.1	-0.1	0.1	0.1	-0.2	-	-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.



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