

Statistical bulletin

Index of Production, UK: November 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.



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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%.

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 <u>output approach to the measurement of GDP</u>).

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 <u>Department for Business, Energy and Industrial Strategy (BEIS)</u> and the <u>International Steel Statistics</u> <u>Bureau (ISSB)</u> 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 <u>Turnover in Production and Services Industries (TOPSI)</u>.

Summary information can be found in the Summary 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 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%.

Description ¹	% of production 2	Month on previous month growth (%)	points)	Month on same month a year ago growth (%)	Contribution to production (% points)
loP	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

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

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 production and manufacturing, Nov 2006 to Nov 2016, UK 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.

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 <u>Buzzard oil field</u> 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.

Sector	Summary description	Month on previous month growth (percentage)	Contribution to production (percentage points)
loP	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
СВ	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
СН	Metal products	1.0	0.08
CI	Computer, electronic and optical	-0.5	-0.02
CJ	Electrical equipment	3.3	0.06
СК	Machinery and equipment	0.9	0.04
CL	Transport equipment	1.0	0.10
СМ	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

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

Source: Office for National Statistics

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)
loP	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
СВ	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
СН	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
СМ	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

Source: Office for National Statistics

6. Links to related statistics

The corresponding price indices used to deflate the Index of Production are published in the monthly publication of <u>UK Producer Price Inflation</u>. Product sales by manufacturers are published on an annual basis, in <u>UK</u> manufacturers' sales by product (<u>PRODCOM</u>), estimates are in current prices, unlike the chained volume measures published in the IoP release.

The Index of Production follows the <u>Eurostat Short Term Statistics (STS)</u> regulation for measuring output in production. The latest release of <u>output in production</u> and <u>output in manufacturing</u> 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 <u>Manufacturing and Trade Inventories and Sales</u>. 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.

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.

<u>Short term indicators economic commentary</u> 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.

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 <u>Producer Price Indices (PPI)</u>. Within the manufacturing sector we also receive direct volume data from: <u>Department for Business, Energy and Industrial Strategy (BEIS)</u> for fuel industries and the <u>International Steel Statistics Bureau (ISSB)</u> 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 <u>GDP(O) source catalogue</u>.

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

- Output of the Production Industries (IOP5) publication tables
- <u>Revisions to Output of the Production Industries</u> (IOP5R)
- <u>Monthly Business Survey response rates</u> 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 <u>Turnover in Production and Services Industries (TOPSI)</u> 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.



Index of Production Release Tables

Pages 2-11 Table IoP5, index values and growth rates for industry groups and manufacturing sub-sectors

Pages 12-21 Table IoP5R, revisions to index values and growth rates for industry groups and manufacturing sub-sectors



Output of the Production Industries, November 2016

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 Percentage change, latest month on previous month Percentage change, latest 3 months on same 3 months a year ago Page 2 Percentage change, latest 3 months on previous 3 months Page 3 Output by Manufacturing sub-sectors part 1 Page 4 Percentage change, latest year on previous year Percentage change, latest month on same month a year ago Page 5 Output by Manufacturing sub-sectors part 2 Percentage change, latest year on previous year Percentage change, latest month on same month a year ago Percentage change, latest month on previous month part 1 Percentage change, latest 3 months on same 3 months a year ago Page 6 Percentage change, latest month on previous month part 2 Page 7 Percentage change, latest 3 months on same 3 months a year ago Page 8 Percentage change, latest 3 months on previous 3 months part 1

Page 9 Percentage change, latest 3 months on previous 3 months part 2

Enquiries

IOP5 Output of the Production Industries Chained volume indices of gross value added¹

			Broad ind	ustry groups				Mair	n industrial group	Seasonally adjust pings	
	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
Section	B+C+D+E	quarrying B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MG-NRG
					74.7						
Latest weight	1 000.0 K222	120.4 K224	700.4 K22A	104.5 K248	74.7 K24C	96.2 K226	52.1 K24Q	208.2 K24R	235.8 K24S	254.6 K24O	232.7 K24T
	NZZZ	1\224	N22A	11240	1/240	11220	1/240	N24N	N243	K240	1/241
2011	103.5	115.3 102.8	102.5	101.0	96.0 95.9	126.9	104.0	104.9	97.7	100.6	113.7
2012 2013	100.7 100.0	102.8	101.0 100.0	100.2 100.0	100.0	109.0 100.0	101.3 100.0	100.9 100.0	99.0 100.0	100.6 100.0	103.6 100.0
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 Q4	103.0 102.6	112.7 110.2	102.3 102.5	94.9 92.9	105.0 105.5	114.4 111.8	105.2 104.9	100.7 101.6	101.3 101.6	104.7 103.6	103.4 101.6
2016 Q1	102.4	108.9	102.0	93.6	108.1	111.4	105.0	100.1	101.6	103.4	101.2
Q2	104.6	111.9	103.7	98.0	110.6	114.7	106.4	101.8	104.5	104.0	104.4
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
Oct	103.6	112.9	102.8	97.0	104.9	114.3	102.9	102.8	101.3	104.4	104.6
Nov Dec	102.7 101.6	110.9 106.7	102.4 102.2	93.6 88.1	104.6 106.9	113.0 108.1	105.8 106.0	100.8 101.0	101.1 102.4	104.0 102.5	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
Feb	102.2	110.3	101.7	92.5	107.6	113.3	104.6	101.0	99.9	103.1	101.5
Mar Apr	102.7 105.0	110.3 111.7	101.8 104.2	95.9 100.0	108.8 109.4	113.6 114.7	104.2 106.6	99.8 103.3	101.9 104.2	102.7 104.3	102.9 105.1
May Jun	104.4 104.3	111.2 112.9	103.6 103.3	97.1 96.7	111.1 111.2	113.6 115.7	107.3 105.3	101.7 100.3	104.0 105.2	104.2 103.6	103.9 104.2
Jul	104.5	120.5	102.5	94.9	111.3	125.2	106.9	98.8	103.5	103.9	107.6
Aug	104.1	117.1	102.7	94.3	110.4	120.7	108.0	99.1	104.1	103.8	105.4
Sep Oct	103.8 102.6 [†]	112.7 103.8	103.3 102.3	92.4 96.4	109.7 † 112.2 †	115.3 104.0 [†]	107.3 107.7	99.5 97.7	104.7 103.3	104.4 104.5 [†]	102.5 99.7
Nov	104.7	112.3	102.5	98.2	112.1	114.7	107.0	101.0	103.0	104.5	105.0
Percentage cha	nge, latest year o	on previous ye	ar								
2011	-0.6	-14.3	2.2	-6.1	5.7	-18.4	0.3	-0.2	6.8	0.7	-10.6
2012 2013	-2.7 -0.7	-10.9 -2.7	-1.4 -1.0	-0.9 -0.2	-0.1 4.3	-14.1 -8.2	-2.6 -1.3	-3.8 -0.9	1.3 1.0	-0.6	-8.9 -3.5
2014 2015	1.5 1.2	0.6 8.4	2.9 -0.2	-6.0 0.5	0.7 3.4	-1.1 10.8	6.2 -0.2	0.5 0.3	3.1 -1.4	5.0 0.3	-3.5 4.9
	nge, latest monti			0.5	3.4	10.8	-0.2	0.5	-1.4	0.5	4.5
2014 Sep	1.1	-1.5	2.8	-4.1	-1.9	-4.5	9.1	0.8	3.7	4.1	-4.2
Oct	1.3	2.9	2.1	-2.9	-2.1	2.3	8.8	0.8	2.8	2.0	-0.2
Nov Dec	1.6 0.9	0.6 -4.3	3.5 2.6	-8.1 -0.2	-1.4 -4.0	-1.2 -8.4	8.4 12.6	2.5 0.1	4.7 5.4	3.3 3.6	-4.2 -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 Apr	1.4 1.2	0.9 7.6	1.1 -0.3	4.4 1.9	0.9 4.1	-0.7 9.6	4.1 0.9	1.3 -2.5	-0.5 -0.6	2.5 1.5	1.3 4.9
Api	1.7	7.0	-0.5						-0.0		5.8
May	1.7	9.3	0.2	1.3	4.2	12.8	2.7	0.6	-0.7	0.1	
May Jun	1.6	9.3 11.2	0.2 -0.1						-0.7 -1.5	0.1 1.7	
Jun Jul	1.6 0.7	11.2 11.1	-0.1 -1.3	1.3 -1.3 -3.4	4.2 6.9 8.3	12.8 15.0 13.9	2.7 5.4 1.0	0.6 -0.9 0.2	-1.5 -4.0	1.7 -0.3	5.4 4.3
Jun Jul Aug Sep	1.6 0.7 1.8 1.5	11.2 11.1 19.9 9.6	-0.1 -1.3 -0.8 -0.3	1.3 -1.3 -3.4 -3.1 3.0	4.2 6.9 8.3 5.5 3.6	12.8 15.0 13.9 26.3 13.2	2.7 5.4 1.0 -2.4 -4.4	0.6 -0.9 -1.0 1.0	-1.5 -4.0 -0.4 -0.9	1.7 -0.3 -1.0 -1.2	5.4 4.3 9.5 7.1
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Jun Jul Aug Sep	1.6 0.7 1.8 1.5	11.2 11.1 19.9 9.6	-0.1 -1.3 -0.8 -0.3	1.3 -1.3 -3.4 -3.1 3.0	4.2 6.9 8.3 5.5 3.6	12.8 15.0 13.9 26.3 13.2	2.7 5.4 1.0 -2.4 -4.4	0.6 -0.9 -1.0 1.0	-1.5 -4.0 -0.4 -0.9	1.7 -0.3 -1.0 -1.2	5.4 4.3 9.5 7.1
Jun Jul Aug Sep Oct Nov Dec 2016 Jan	1.6 0.7 1.8 1.5 1.8 0.6 -0.3 0.4	11.2 11.1 19.9 9.6 9.7 10.9 7.3 2.9	-0.1 -1.3 -0.8 -0.3 - -1.4 -1.4 -0.3	1.3 -1.3 -3.4 -3.1 3.0 3.5 0.4 -7.5 -3.5	4.2 6.9 8.3 5.5 3.6 4.0 3.1 7.8 8.6	12.8 15.0 13.9 26.3 13.2 12.8 16.3 12.7 6.7	2.7 5.4 1.0 -2.4 -4.4 -5.0 -3.2 -5.7 -3.1	0.6 -0.9 -1.0 1.0 2.8 -0.5 0.2 -1.2	-1.5 -4.0 -0.4 -0.9 -1.8 -3.1 -2.0 2.2	1.7 -0.3 -1.0 -1.2 -0.5 -1.7 -3.5 -2.1	5.4 4.3 9.5 7.1 7.5 7.4 1.8 0.9
Jun Jul Aug Sep Oct Nov Dec 2016 Jan Feb	1.6 0.7 1.8 1.5 1.8 0.6 -0.3	11.2 11.1 19.9 9.6 9.7 10.9 7.3 2.9 9.6	-0.1 -1.3 -0.8 -0.3 -1.4 -1.4 -0.3 -1.6	1.3 -1.3 -3.4 -3.1 3.0 3.5 0.4 -7.5 -3.5 -4.7	4.2 6.9 8.3 5.5 3.6 4.0 3.1 7.8 8.6 6.0	12.8 15.0 13.9 26.3 13.2 12.8 16.3 12.7 6.7 16.5	2.7 5.4 1.0 -2.4 -4.4 -5.0 -3.2 -5.7 -3.1 -0.2	0.6 -0.9 -1.0 1.0 2.8 -0.5 0.2 -1.2 0.9	-1.5 -4.0 -0.4 -0.9 -1.8 -3.1 -2.0	1.7 -0.3 -1.0 -1.2 -0.5 -1.7 -3.5 -2.1 -4.0	5.4 4.3 9.5 7.1 7.5 7.4 1.8 0.9 4.0
Jun Jul Aug Sep Oct Nov Dec 2016 Jan Feb Mar Apr	1.6 0.7 1.8 1.5 1.8 0.6 -0.3 0.4 - 2.2	11.2 11.1 19.9 9.6 9.7 10.9 7.3 2.9 9.6 6.1 2.9	-0.1 -1.3 -0.8 -0.3 -1.4 -1.4 -0.3 -1.6 -1.8 1.0	1.3 -1.3 -3.4 -3.1 3.0 3.5 0.4 -7.5 -3.5 -4.7 0.8 8.2	4.2 6.9 8.3 5.5 3.6 4.0 3.1 7.8 8.6 6.0 6.6 4.8	12.8 15.0 13.9 26.3 13.2 12.8 16.3 12.7 6.7 16.5 11.1 5.1	2.7 5.4 1.0 -2.4 -5.0 -3.2 -5.7 -3.1 -0.2 -2.6 0.3	0.6 -0.9 -1.0 2.8 -0.5 0.2 -1.2 0.9 -2.3 3.8	-1.5 -4.0 -0.4 -0.9 -1.8 -3.1 -2.0 2.2 -2.6 - - 2.4 - 1.4	1.7 -0.3 -1.0 -1.2 -0.5 -1.7 -3.5 -2.1 -4.0 -4.0 -2.3	5.4 4.3 9.5 7.1 7.5 7.4 1.8 0.9 4.0 4.7 5.2
Jun Jul Aug Sep Oct Nov Dec 2016 Jan Feb Mar	1.6 0.7 1.8 1.5 1.8 0.6 -0.3 0.4	11.2 11.1 19.9 9.6 9.7 10.9 7.3 2.9 9.6 6.1	-0.1 -1.3 -0.8 -0.3 -1.4 -1.4 -1.4 -0.3 -1.6 -1.8	1.3 -1.3 -3.4 -3.1 3.0 3.5 0.4 -7.5 -3.5 -4.7 0.8	4.2 6.9 8.3 5.5 3.6 4.0 3.1 7.8 8.6 6.0 6.6	12.8 15.0 13.9 26.3 13.2 12.8 16.3 12.7 6.7 16.5 11.1	2.7 5.4 1.0 -2.4 -4.4 -5.0 -3.2 -5.7 -3.1 -0.2 -2.6	0.6 -0.9 0.2 -1.0 1.0 2.8 -0.5 0.2 -1.2 0.9 -2.3	-1.5 -4.0 -0.4 -0.9 -1.8 -3.1 -2.0 2.2 -2.6	1.7 -0.3 -1.0 -1.2 -0.5 -1.7 -3.5 -2.1 -4.0 -4.0	5.4 4.3 9.5 7.1 7.5 7.4 1.8 4.0 4.7 5.2 0.4
Jun Jul Aug Sep Oct Nov Dec 2016 Jan Feb Mar Apr May Jun	1.6 0.7 1.8 1.5 1.8 0.6 -0.3 0.4 - - 2.2 1.3 1.3	11.2 11.1 19.9 9.6 9.7 10.9 7.3 2.9 9.6 6.1 2.9 -2.2 2.4	-0.1 -1.3 -0.8 -0.3 -1.4 -1.4 -1.4 -1.4 -1.4 -1.8 1.0 1.1 0.6	1.3 -1.3 -3.4 -3.1 3.0 3.5 0.4 -7.5 -3.5 -4.7 0.8 8.2 2.9 2.8	4.2 6.9 8.3 5.5 3.6 4.0 3.1 7.8 8.6 6.0 6.6 4.8 6.5 4.6	128 15.0 13.9 26.3 13.2 12.8 16.3 12.7 6.7 16.5 11.1 5.1 -2.0 4.0	2.7 5.4 1.0 -2.4 -4.4 -5.0 -3.2 -5.7 -3.1 -0.2 -2.6 0.3 2.4 -3.9	0.6 -0.9 0.2 -1.0 1.0 2.8 -0.5 0.2 -1.2 0.9 -2.3 3.8 3.8	-1.5 -4.0 -0.4 -0.9 -1.8 -3.1 -2.0 2.2 -2.6 - 1.4 3.0 2.3	1.7 -0.3 -1.0 -1.2 -0.5 -1.7 -3.5 -2.1 -4.0 -4.0 -2.3 -0.4 -2.4	5.4 4.3 9.5 7.1 7.5 7.4 1.8 4.0 4.0 4.0 4.1 5.2 0.4 2.5
Jun Jul Aug Sep Oct Nov Dec 2016 Jan Feb Mar Apr May Jun Jul Aug	1.6 0.7 1.8 1.5 1.8 0.6 -0.3 0.4 - 2.2 1.3 1.3 1.3 2.1 0.8	11.2 11.1 19.9 9.6 9.7 10.9 7.3 2.9 9.6 6.1 2.9 -2.2 2.4 9.4 0.3	-0.1 -1.3 -0.8 -0.3 -1.4 -1.4 -0.3 -1.6 -1.8 1.0 1.1 0.6 0.7 0.6	1.3 -1.3 -3.4 -3.1 3.0 3.5 0.4 -7.5 -3.5 -4.7 0.8 8.2 2.9 2.8 0.9 2.8 0.9 -0.5	4.2 6.9 8.3 5.5 3.6 4.0 3.1 7.8 8.6 6.0 6.6 4.8 6.5 4.6 3.6 5.9	128 15.0 13.9 26.3 13.2 12.8 16.3 12.7 6.7 16.5 11.1 5.1 -2.0 4.0 13.2 0.9	2.7 5.4 1.0 -2.4 -4.4 -5.0 -3.2 -5.7 -3.1 -0.2 -2.6 0.3 2.4 -3.9 0.3 3.8	0.6 -0.9 0.2 -1.0 1.0 2.8 -0.5 0.2 -1.2 0.9 -2.3 3.8 - 1.7 -1.7 -0.8	-1.5 -4.0 -0.4 -0.9 -1.8 -3.1 -2.0 2.2 -2.6 - 1.4 3.0 2.3 4.5 2.2	1.7 -0.3 -1.0 -1.2 -0.5 -1.7 -3.5 -2.1 -4.0 -2.3 -0.4 -2.4 -1.3 -0.7	5.4 9.5 7.1 7.5 7.4 1.5 4.0 4.7 5.2 0.4 2.5 6.1
Jun Jul Aug Sep Oct Nov Dec 2016 Jan Feb Mar Apr May Jun Jul	1.6 0.7 1.8 1.5 1.8 0.6 -0.3 0.4 - 2.2 1.3 1.3 2.1	11.2 11.1 19.9 9.6 9.7 10.9 7.3 2.9 9.6 6.1 2.9 9.6 6.1 2.2 2.4 9.4	-0.1 -1.3 -0.8 -0.3 -1.4 -1.4 -1.4 -1.4 -0.3 -1.6 -1.8 1.0 1.1 0.6 0.7 0.6	1.3 -1.3 -3.4 -3.1 3.0 3.5 0.4 -7.5 -3.5 -4.7 0.8 8.2 2.9 2.8 0.9 -0.5 -3.8	4.2 6.9 8.3 5.5 3.6 4.0 3.1 7.8 8.6 6.0 6.6 6.0 6.6 4.8 6.5 4.6 3.6 5.9 5.9	128 150 139 26.3 13.2 128 16.3 12.7 6.7 16.5 11.1 5.1 -2.0 4.0 13.2	2.7 5.4 1.0 -2.4 -4.4 -5.0 -3.2 -5.7 -3.1 -0.2 -2.6 0.3 2.4 -3.9 0.3	0.6 -0.9 0.2 -1.0 1.0 2.8 -0.5 0.2 -1.2 0.9 -2.3 3.8 3.8 3.8 -1.7 -1.7 -1.7 -0.8 -2.1	-1.5 -4.0 -0.4 -0.9 -1.8 -3.1 -2.0 2.2 2.2 -2.6 - - 1.4 3.0 2.3 4.5 2.2 2.1.7	1.7 -0.3 -1.0 -1.2 -0.5 -1.7 -3.5 -2.1 -4.0 -4.0 -2.3 -0.4 -2.4 -1.3 -0.7 -0.1	5.4 4.3 9.5 7.1 7.5 7.4 1.8 0.9 4.0 4.0 4.0 4.0 4.0 4.1 5.2 0.4 2.5 6.1

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

Continued Output of the Production Industries Chained volume indices of gross value added¹

			Broad ind	ustry groups				Ma	in industrial group	ings	
	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
Section	B+C+D+E	В	С	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
Ū.	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
Percentage cha	nge, latest mon	th on previous	month								
2014 Sep Oct	0.4 -0.1	4.3 1.3	0.4 -0.6	-4.6 0.5	0.9 1.1	5.2 1.6	2.8 -1.2	-0.3 -0.5	1.6 -0.7	0.1 -0.8	0.1 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 Feb	-0.1 0.4	3.6 -2.3	-0.8 0.5	0.6 1.4	0.3 2.1	5.0 -3.4	-2.6 -4.2	0.1 -0.7	-3.7 2.0	0.4 0.9	2.5 -0.6
Mar	0.4 0.1	3.2 4.5	0.3 -0.5	-2.1 -2.9	0.6 2.2	5.0 6.8	2.0 -0.7	2.0 -2.6	-0.7 0.9	-0.4 -0.2	0.7 1.6
Apr May	0.1	4.5	-0.5	-2.9	-0.1	6.2	-0.7	-2.0	-1.8	-0.2	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 Aug	-0.6 0.9	-0.1 5.9	-0.9 0.4	-0.1 0.8	1.0 -2.9	-0.6 8.3	-2.8 -2.4	1.8 -0.6	-3.6 2.8	-0.8 -0.7	0.1 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 Nov	0.2 -0.8	1.5 -1.8	-0.3 -0.4	0.9 -3.5	1.6 -0.3	1.2 -1.1	-1.8 2.8	1.2 -2.0	-1.6 -0.2	-0.1 -0.3	1.3 -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 -0.1	-0.6	0.4 -0.9	4.9	1.0 -0.4	-0.6	0.1	-1.4	0.5	1.8	1.6
Feb Mar	0.5	4.0 -0.1	-0.9	0.1 3.6	1.1	5.4 0.2	-1.4 -0.4	1.4 -1.2	-2.8 1.9	-1.1 -0.4	2.3 1.4
Apr	2.2 -0.6	1.3 -0.5	2.3 -0.6	4.3 -2.8	0.6 1.5	1.0 -0.9	2.3 0.7	3.5 -1.5	2.3 -0.3	1.6 -0.1	2.1 -1.2
May Jun	-0.6	-0.5	-0.8	-2.8	0.1	-0.9	-1.9	-1.5	-0.3	-0.1	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 Sep	-0.3 -0.4	-2.9 -3.8	0.2 0.6	-0.6 -2.0	-0.8 -0.6	-3.6 -4.5	1.0 -0.6	0.4 0.4	0.6 0.6	-0.1 0.5	-2.1 -2.7
Oct Nov	-1.1 [⊤] 2.1	-7.9 8.2	[⊤] -1.0 1.3	[™] 4.3 1.9	T 2.3 T -0.1	-9.8 ⁺ 10.3	0.4 -0.6	^T -1.8 ¹ 3.4	-1.4 ^T -0.2	0.1 [†] 1.1	-2.7 5.3
Porcontago obo	ngo latoot 2 ma	nthe on come	3 months a yea	r ogo ²							
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 Dec	1.3 1.3	0.6 -0.3	2.8 2.8	-5.1 -3.8	-1.8 -2.5	-1.2 -2.5	8.8 9.9	1.4 1.1	3.7 4.3	3.2 3.0	-2.9 -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 Apr	1.2 1.2	1.6 2.3	1.1 0.6	3.8 4.4	-1.9 0.9	-0.6 1.0	3.3 1.9	1.2 -0.8	-0.4	2.6 2.6	1.5 2.3
May Jun	1.4 1.5	5.9 9.3	0.3 -0.1	2.5 0.6	3.0 5.1	7.2 12.5	2.5 3.0	-0.2 -0.9	-0.6 -0.9	1.4 1.1	4.0 5.4
	1.3	9.5	-0.1	-1.2	6.5	12.5	3.0	-0.9	-0.9	0.5	5.4
Jul Aug	1.4	14.0	-0.7	-2.6	6.9	18.3	1.3	-0.6	-2.0	0.1	6.4
Sep Oct	1.3 1.7	13.4 12.9	-0.8 -0.4	-1.2 1.1	5.8 4.3	17.7 17.3	-2.0 -3.9	0.1 1.0	-1.8 -1.0	-0.8 -0.9	7.0 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 Feb	0.2	7.0 6.6	-1.0 -1.1	-3.6 -5.3	6.5 7.5	11.8 11.9	-4.0 -3.1	-0.5	-1.0 -0.8	-2.4 -3.2	3.4 2.2
Mar Apr	0.1 0.7	6.2 6.1	-1.2 -0.8	-2.5 1.3	7.1 5.8	11.4 10.7	-2.0 -0.8	-0.9 0.8	-0.1 -0.4	-3.4 -3.5	3.2 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 Aug	1.6 1.4	3.2 4.0	0.8 0.6	2.2 1.1	4.9 4.7	5.0 5.9	-0.5	- -0.3	3.2 3.0	-1.4 -1.5	3.1 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 Nov	0.1 [†] 0.5	-2.1 -1.8	T 0.1 0.3	-1.6 0.1	[™] 6.3 [™] 6.7	-2.0 ^T -1.8	3.6 2.7	-2.6 ¹ -2.3	1.9 [†] 1.9	-0.2 [†] 0.5	-1.9 -1.0

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

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

Continued Output of the Production Industries Chained volume indices of gross value added¹

			Broad ind	ustry groups				Ma	in industrial group	ings	
	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
Section	B+C+D+E	В	С	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MG-NRG
atest weight	1 000.0	120.4	700.4	104.5		96.2	52.1	208.2	235.8	254.6	232.7
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
Percentage cha	nge, latest 3 mo	nths on previ	ous 3 months ²								
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	-	0.1
Oct	-0.9	-3.2		-2.0			1.1	-1.5		0.3 ^T	-2.
Nov	-0.6	-6.2	0.3	0.4	0.3	-7.6	0.6	-	-0.6	1.0	-3.

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

IOP5 Output of the Production Industries Chained volume indices of gross value added¹

	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 pharmaceutica products and preparations
Section	CA	СВ	CC	CD	CE	CF
	114.2	25.4	51.0	9.2	39.8	58.7
atest weight.	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 Q2	104.2 104.5	92.4 91.5	100.5 102.3	89.9 90.9	105.2 105.1	94.3 99.0
Q2 Q3	104.5	91.5 95.0	102.3	90.9	105.1	99.0
2015 Sep Oct	104.8 104.7	96.5 98.2	101.7 101.0	98.5 102.5	108.9 108.7	97.2 100.5
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 Apr	103.0 103.9	88.9 94.3	100.2 101.6	83.9 85.5	104.6 106.2	96.8 104.7
May	105.4	94.3 88.3	101.8	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 Sep	104.3 105.0	95.5 94.7	100.7 100.6	90.4 94.3	105.6 107.2	92.3 94.4
Oct	103.9	91.8 [†]	100.0		107.2	91.7
Nov	104.2	92.3	101.5	97.6	105.2	102.2
Percentage cha	inge, latest year or	n previous year				
2011	6.6	1.4	-5.6	1.4	6.8	-13.5
2011 2012	6.6 -2.6	1.4 -3.4	-5.3	-10.1	-1.9	-5.8
2011 2012 2013	6.6 -2.6 -1.7	1.4 -3.4 -4.4	-5.3 2.3	-10.1 -1.9	-1.9 -1.1	-5.8 -2.6
2011 2012 2013 2014	6.6 -2.6	1.4 -3.4	-5.3	-10.1	-1.9	-5.8
2011 2012 2013 2014 2015	6.6 -2.6 -1.7 4.2 -0.1	1.4 -3.4 -4.4 -2.7	-5.3 2.3 1.1 0.4	-10.1 -1.9 -8.9	-1.9 -1.1 2.8	-5.8 -2.6 -5.0
2011 2012 2013 2014 2015	6.6 -2.6 -1.7 4.2 -0.1	1.4 -3.4 -4.4 -2.7 -0.3	-5.3 2.3 1.1 0.4	-10.1 -1.9 -8.9	-1.9 -1.1 2.8 6.0 3.1	-5.8 -2.6 -5.0
2011 2012 2013 2014 2015 Percentage cha 2014 Sep Oct	6.6 -2.6 -1.7 4.2 -0.1 unge, latest month 6.1 6.8	1.4 -3.4 -4.4 -2.7 -0.3 on same month a yo -6.0 -10.1	-5.3 2.3 1.1 0.4 ear ag: 2.5 3.5	-10.1 -1.9 -8.9 2.7 -5.2 2.6	-1.9 -1.1 2.8 6.0 3.1 2.0	-5.8 -2.6 -5.0 0.6 -6.8
2011 2012 2013 2014 2015 Percentage cha 2014 Sep	6.6 -2.6 -1.7 4.2 -0.1 ange, latest month 6.1	1.4 -3.4 -4.4 -2.7 -0.3 on same month a ye	-5.3 2.3 1.1 0.4 Sear ag(2.5	-10.1 -1.9 -8.9 2.7 -5.2	-1.9 -1.1 2.8 6.0 3.1	-5.8 -2.6 -5.0 0.6
2011 2012 2013 2014 2015 Percentage cha 2014 Sep Oct Nov Dec	6.6 -2.6 -1.7 4.2 -0.1 ange, latest month 6.1 6.8 5.9	1.4 -3.4 -4.4 -2.7 -0.3 on same month a yu -6.0 -10.1 -9.1	-5.3 2.3 1.1 0.4 ear ag(2.5 3.5 3.5 3.7	-10.1 -1.9 -8.9 2.7 -5.2 2.6 -3.0	-1.9 -1.1 2.8 6.0 3.1 2.0 3.9	-5.8 -2.6 -5.0 0.6 -6.8 -8.5 -2.1
2011 2012 2013 2014 2015 Percentage cha 2014 Sep Oct Nov Dec 2015 Jan Feb	6.6 -2.6 -1.7 4.2 -0.1 ange, latest month 6.1 6.8 5.9 5.6 2.5 0.7	1.4 -3.4 -4.4 -2.7 -0.3 on same month a yu -6.0 -10.1 -9.1 -9.8 -9.9 -5.1	-5.3 2.3 1.1 0.4 ear ag(2.5 3.5 3.7 -0.8 3.1 1.8	-10.1 -1.9 -8.9 2.7 -5.2 2.6 -3.0 -10.4 -2.7 3.7	-1.9 -1.1 2.8 6.0 3.1 2.0 3.9 1.4 4.9 10.4	-5.8 -2.6 -5.0 0.6 -8.5 -2.1 -5.4 7.7 -5.5
2011 2012 2013 2014 2015 Percentage cha 2014 Sep Oct Nov Dec 2015 Jan Feb Mar	6.6 -2.6 -1.7 4.2 -0.1 ange, latest month 6.1 6.8 5.9 5.6 2.5 0.7 0.4	1.4 -3.4 -4.4 -2.7 -0.3 on same month a yo -6.0 -10.1 -9.1 -9.1 -9.8 -9.9 -5.1 -1.0	-5.3 2.3 1.1 0.4 ear ag(2.5 3.5 3.7 -0.8 3.1 1.8 3.9	-10.1 -1.9 -8.9 2.7 -5.2 2.6 -3.0 -10.4 -2.7 3.7 -7.3	-1.9 -1.1 2.8 6.0 3.1 2.0 3.9 1.4 4.9 10.4 7.3	-5.8 -2.6 -5.0 0.6 -6.8 -8.5 -2.1 -5.4 7.7 -5.8
2011 2012 2013 2014 2015 Percentage cha 2014 Sep Oct Nov Dec 2015 Jan Feb Mar Apr	6.6 -2.6 -1.7 4.2 -0.1 unge, latest month 6.1 6.8 5.9 5.6 2.5 0.7 0.4 -1.3	1.4 -3.4 -4.4 -2.7 -0.3 on same month a yu -6.0 -10.1 -9.1 -9.1 -9.8 -9.9 -5.1 -1.0 -3.0	-5.3 2.3 1.1 0.4 9ar ag(2.5 3.5 3.7 -0.8 3.1 1.8 8.9 2.4	-10.1 -1.9 -8.9 2.7 -5.2 2.6 -3.0 -10.4 -2.7 3.7 -7.3 -7.3 -7.8	-1.9 -1.1 2.8 6.0 3.1 2.0 3.9 1.4 4.9 10.4 7.3 8.2	-5.8 -2.0 -5.0 0.6 -6.8 -8.5 -2.1 -5.4 7.7 -5.5 0.8 -7.1
2011 2012 2013 2014 2015 Percentage cha 2014 Sep Oct Nov Dec 2015 Jan Feb Mar	6.6 -2.6 -1.7 4.2 -0.1 ange, latest month 6.1 6.8 5.9 5.6 2.5 0.7 0.4	1.4 -3.4 -4.4 -2.7 -0.3 on same month a yo -6.0 -10.1 -9.1 -9.1 -9.8 -9.9 -5.1 -1.0	-5.3 2.3 1.1 0.4 ear ag(2.5 3.5 3.7 -0.8 3.1 1.8 3.9	-10.1 -1.9 -8.9 2.7 -5.2 2.6 -3.0 -10.4 -2.7 3.7 -7.3	-1.9 -1.1 2.8 6.0 3.1 2.0 3.9 1.4 4.9 10.4 7.3	-5.6 -2.6 -5.0 0.6 -8.5 -2.1 -5.4 -7.7 -5.5 0.6 -7.7 -6.0
2011 2012 2013 2014 2015 Percentage cha 2014 Sep Oct Nov Dec 2015 Jan Feb Mar Apr May Jun Jul	6.6 -2.6 -1.7 4.2 -0.1 ange, latest month 6.1 6.8 5.9 5.6 2.5 0.7 0.4 -1.3 -0.1 -0.7 -1.0	1.4 -3.4 -4.4 -2.7 -0.3 on same month a yu -6.0 -10.1 -9.1 -9.1 -9.9 -5.1 -1.0 -3.0 -6.5 3.9 6.1	-5.3 2.3 1.1 0.4 9ar ag(2.5 3.5 3.7 -0.8 3.1 1.8 3.9 2.4 -0.1 -1.0 -0.7	-10.1 -1.9 -8.9 2.7 -5.2 2.6 -3.0 -10.4 -2.7 3.7 -7.3 -7.3 -7.8 -6.3 -4.0 9.6	-1.9 -1.1 2.8 6.0 3.1 2.0 3.9 1.4 4.9 10.4 7.3 8.2 3.4 7.1 5.2	-5.6 -2.6 -5.0 -6.6 -8.5 -2.1 -5.4 7.7 -5.5 -5.4 -5.4 -5.4 -5.5 -5.4 -5.4 -5.4
2011 2012 2013 2014 2015 Percentage cha 2014 Sep Oct Nov Dec 2015 Jan Feb Mar Apr May Jun Jul Aug	6.6 -2.6 -1.7 4.2 -0.1 ange, latest month 6.1 6.8 5.9 5.6 2.5 0.7 0.4 -1.3 -0.1 -0.7 -1.0 -0.7	1.4 -3.4 -4.4 -2.7 -0.3 on same month a yu -6.0 -10.1 -9.1 -9.1 -9.8 -9.9 -5.1 -1.0 -3.0 -6.5 3.9 -6.1 -3.5	-5.3 2.3 1.1 0.4 ear agc 2.5 3.5 3.7 -0.8 3.1 1.8 3.9 2.4 -0.1 -0.1 -1.0 -0.7 -2.7	-10.1 -1.9 -8.9 2.7 -5.2 2.6 -3.0 -10.4 -2.7 3.7 -7.3 -7.3 -7.3 -6.3 -4.0 9.6 9.3	-1.9 -1.1 2.8 6.0 3.1 2.0 3.9 1.4 4.9 10.4 7.3 8.2 3.4 7.1 5.2 8.6	-5.6 -2.6 -5.0 0.6 -8.5 -8.5 -2.1 -5.4 -7.7 -5.5 -0.8 -7.7 -6.0 -2.2 -0.3 -1.1
2011 2012 2013 2014 2015 Percentage cha 2014 Sep Oct Nov Dec 2015 Jan Feb Mar Apr May Jun Jul Aug Sep	6.6 -2.6 -1.7 4.2 -0.1 ange, latest month 6.1 6.8 5.9 5.6 2.5 0.7 0.4 -1.3 -0.1 -0.7 -1.0 -0.7 0.6	1.4 -3.4 -4.4 -2.7 -0.3 on same month a yu -6.0 -10.1 -9.1 -9.1 -9.8 -9.9 -5.1 -1.0 -3.0 -6.5 3.9 -6.5 3.9 -6.1 -3.5 2.4	-5.3 2.3 1.1 0.4 ear ag(2.5 3.5 3.7 -0.8 3.1 1.8 3.9 2.4 -0.1 -1.0 -0.7 -1.0	-10.1 -1.9 -8.9 2.7 -5.2 2.6 -3.0 -10.4 -2.7 3.7 -7.3 -7.3 -7.8 -6.3 -4.0 9.6 9.3 10.2	$\begin{array}{c} -1.9\\ -1.1\\ 2.8\\ 6.0\\ \end{array}$	-5.8 -2.6 -5.0 0.6 -6.8 -8.5 -2.1 -5.4 -7.7 -5.5 -0.8 -7.7 -6.0 -2.2 -0.3 -1.1 -2.5
2011 2012 2013 2014 2015 Percentage cha 2014 2014 Sep Oct Nov Dec 2015 Jan Feb Mar Apr May Jun Jul Aug Sep Oct	6.6 -2.6 -1.7 4.2 -0.1 unge, latest month 6.1 6.8 5.9 5.6 2.5 0.7 0.4 -1.3 -0.1 -0.7 -1.0 -0.7 -0.6	1.4 -3.4 -4.4 -2.7 -0.3 on same month a yu -6.0 -10.1 -9.1 -9.1 -9.9 -5.1 -1.0 -3.0 -6.5 3.9 -6.1 -3.5 2.4 4.6.8	-5.3 2.3 1.1 0.4 9ar agc 2.5 3.5 3.7 -0.8 3.1 1.8 3.9 2.4 -0.1 -1.0 -0.7 -2.7 -2.7 -1.0 -1.6	-10.1 -1.9 -8.9 2.7 -5.2 2.6 -3.0 -10.4 -2.7 3.7 -7.3 -7.8 -6.3 -4.0 9.6 9.3 10.2 11.9	$\begin{array}{c} -1.9\\ -1.1\\ 2.8\\ 6.0\\ \end{array}$ $\begin{array}{c} 3.1\\ 2.0\\ 3.9\\ 1.4\\ 4.9\\ 10.4\\ 7.3\\ 8.2\\ 3.4\\ 7.1\\ 5.2\\ 8.6\\ 4.5\\ 5.7\\ \end{array}$	-5.8 -2.6 -5.0 0.6 -8.8 -2.1 -5.4 7.7 -5.5 0.8 -7.1 6.0 -2.2 -0.3 -1.1 2.5 9.1
2011 2012 2013 2014 2015 2014 Sepcentage cha 2014 Sep Oct Nov Dec 2015 Jan Feb Mar Apr May Jun Jul Aug Sep	6.6 -2.6 -1.7 4.2 -0.1 ange, latest month 6.1 6.8 5.9 5.6 2.5 0.7 0.4 -1.3 -0.1 -0.7 -1.0 -0.7 0.6	1.4 -3.4 -4.4 -2.7 -0.3 on same month a yu -6.0 -10.1 -9.1 -9.1 -9.8 -9.9 -5.1 -1.0 -3.0 -6.5 3.9 -6.5 3.9 -6.1 -3.5 2.4	-5.3 2.3 1.1 0.4 ear ag(2.5 3.5 3.7 -0.8 3.1 1.8 3.9 2.4 -0.1 -1.0 -0.7 -1.0	-10.1 -1.9 -8.9 2.7 -5.2 2.6 -3.0 -10.4 -2.7 3.7 -7.3 -7.3 -7.8 -6.3 -4.0 9.6 9.3 10.2	$\begin{array}{c} -1.9\\ -1.1\\ 2.8\\ 6.0\\ \end{array}$	-5.6 -2.6 -5.0 0.6 -6.6 -8.5 -2.1 -5.4 7.7 -5.5 -0.6 -2.2 -0.3 -1.1 2.5 -0.3 -1.1 2.5 -0.3 -1.1 -2.5
2011 2012 2013 2014 2015 Percentage cha 2014 Sep Oct Nov Dec 2015 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2016 Jan	6.6 -2.6 -1.7 4.2 -0.1 ange, latest month 6.1 6.8 5.9 5.6 2.5 0.7 0.4 -1.3 -0.1 -0.7 0.6 -0.3 -0.4 -1.3 -0.3	1.4 -3.4 -4.4 -2.7 -0.3 on same month a yu -6.0 -10.1 -9.1 -9.9 -5.1 -1.0 -3.0 -6.5 3.9 6.1 -3.5 2.4 6.8 2.8 6.8 2.8 6.8 5.6	-5.3 2.3 1.1 0.4 ear ag(2.5 3.5 3.7 -0.8 3.1 1.8 3.9 2.4 -0.1 -1.0 -0.7 -2.7 -1.0 -0.7 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.7 -0.8 -0.4 -0.4 -0.4 -0.4 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8 -0.8	-10.1 -1.9 -8.9 2.7 -5.2 2.6 -3.0 -10.4 -2.7 3.7 -7.3 -7.3 -7.3 -7.3 -7.3 -7.3 -7.	$\begin{array}{c} -1.9\\ -1.1\\ 2.8\\ 6.0\\ \end{array}$	-5.6 -2.6 -5.0 -6.8 -8.5 -2.1 -5.4 -5.4 -7.7 -5.5 -5.5 -7.7 -5.5 -7.7 -5.5 -7.7 -7.7
2011 2012 2013 2014 2015 Percentage cha 2014 Sep Oct Nov Dec 2015 Jan Feb Mar Aug Sep Oct Nov Jun Jul Aug Sep Oct Nov Dec 2016 Jan Feb	6.6 -2.6 -1.7 4.2 -0.1 ange, latest month 6.1 6.8 5.9 5.6 2.5 0.7 0.4 -1.3 -0.1 -0.7 -1.0 -0.7 -1.0 -0.7 0.6 -0.3 -0.4 -1.3 -0.1 -0.7 0.6	1.4 -3.4 -4.4 -2.7 -0.3 on same month a yu -6.0 -10.1 -9.1 -9.8 -9.9 -5.1 -1.0 -3.0 -6.5 3.9 6.1 -3.5 2.4 6.8 2.8 6.8 2.8 6.8 5.6 -6.2	-5.3 2.3 1.1 0.4 ear age 2.5 3.5 3.7 -0.8 3.1 1.8 3.9 2.4 -0.1 -1.0 -0.7 -2.7 -1.0 -1.6 0.7 0.8 -2.1 -2.9	-10.1 -1.9 -8.9 2.7 -5.2 2.6 -3.0 -10.4 -2.7 3.7 -7.3 -7.3 -7.3 -7.8 -6.3 -4.0 9.6 9.3 10.2 11.9 14.1 2.9 2.9 -2.9	$\begin{array}{c} -1.9\\ -1.1\\ 2.8\\ 6.0\\ \end{array}$	-5.6 -2.6 -5.0 -6.8 -8.5 -2.1 -5.4 -7.7 -5.5 -0.8 -7.7 -6.0 -2.2 -0.3 -1.1 2.5 9.1 -1.0 -0.3 -1.1 -4.5 -2.4 -0.3 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1
2011 2012 2013 2014 2015 Percentage cha 2014 2014 Sep Oct Nov Dec 2015 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2016 Aug Sep Oct Nov Dec 2016 Aug Sep Oct Nov Dec	6.6 -2.6 -1.7 4.2 -0.1 ange, latest month 6.1 6.8 5.9 5.6 2.5 0.7 0.4 -1.3 -0.1 -0.7 -1.0 -0.7 -1.0 -0.7 -1.0 -0.7 -1.3 -0.1 -0.7 -1.3 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1 -0.1	1.4 -3.4 -3.4 -4.4 -2.7 -0.3 on same month a yu -6.0 -10.1 -9.1 -9.1 -9.8 -9.9 -5.1 -1.0 -3.0 -6.5 3.9 6.1 -3.5 2.4 6.8 2.8 6.8 2.8 6.8 2.8 6.8 2.8 6.8 2.8 6.8	-5.3 2.3 1.1 0.4 ear ag(2.5 3.5 3.7 -0.8 3.1 1.8 3.9 2.4 -0.1 -1.0 -0.7 -1.0 -1.0 -0.7 -1.0 -1.6 0.7 -2.7 -0.8 -2.1 -2.1 -2.1	$\begin{array}{c} -10.1\\ -1.9\\ -8.9\\ 2.7\\ \end{array}$	$\begin{array}{c} -1.9\\ -1.1\\ 2.8\\ 6.0\\ \end{array}$	-5.6 -2.6 -5.0 0.6 -6.8 -8.9 -2.7 -5.4 -5.4 -5.4 -0.3 -7.7 -6.0 -2.2 9.7 -1.1 -1.1 -4.9 -4.9 -1.2
2011 2012 2013 2014 2015 Percentage cha 2014 Sep Oct Nov Dec 2015 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2016 Jan Feb Mar Apr Nov Dec 2016 Aug Sep Oct Nov Dec	6.6 -2.6 -1.7 4.2 -0.1 ange, latest month 6.1 6.8 5.9 5.6 2.5 0.7 0.4 -1.3 -0.1 -0.7 -1.0 -0.7 0.4 -1.3 -0.3 0.6 -1.2 1.0 2.4	1.4 -3.4 -4.4 -2.7 -0.3 on same month a yu -6.0 -10.1 -9.1 -9.9 -5.1 -1.0 -3.0 -6.5 3.9 -6.1 -3.5 2.4 6.8 2.8 6.8 2.8 6.8 5.6 -6.2 -10.8 -4.3 -13.3	-5.3 2.3 1.1 0.4 ear age 2.5 3.5 3.7 -0.8 3.1 1.8 3.9 2.4 -0.1 -1.0 -1.6 -0.7 -2.7 -1.0 -1.6 -0.7 -2.7 -0.8 -2.1 -2.9 -2.1 -2.9 -2.1 -0.4 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.9 -2.1 -2.9 -2.9 -2.9 -2.9 -2.9 -2.9 -2.9 -2.9	$\begin{array}{c} -10.1\\ -1.9\\ -8.9\\ 2.7\end{array}$ $\begin{array}{c} -5.2\\ 2.6\\ -3.0\\ -10.4\end{array}$ $\begin{array}{c} -2.7\\ 3.7\\ -7.3\\ -7.3\\ -7.3\\ -7.3\\ -7.3\\ -7.3\\ -8.3\\ -4.0\end{array}$ $\begin{array}{c} 9.6\\ 9.3\\ 10.2\\ 11.9\\ 14.1\\ 2.9\\ 2.9\\ -2.9\\ -3.1\\ -0.4\\ 8.3\end{array}$	$\begin{array}{c} -1.9\\ -1.1\\ 2.8\\ 6.0\\ \end{array}$	-5.6 -2.6 -5.0 0.6 -8.1 -8.2 -2.2 -5.4 -7.7 -5.5 0.8 -7.7 -5.5 0.8 -7.7 -5.5 0.8 -7.7 -5.5 -5.5 -5.5 -5.5 -5.5 -5.5 -5.5
2011 2012 2013 2014 2015 Percentage cha 2014 2014 Sep Oct Nov Dec 2015 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2016 Cot Mar Apr Nov Dec 2016 Cot Nov Dec 2017 Cot Nov Dec 2017 Cot Nov Dec 2016 Cot Nov Dec 2017 Cot Dec 2017 Cot Nov Dec 2017 Cot Dec Cot Nov Dec 2017 Cot Dec 2017 Cot Dec Cot Nov Dec Cot Dec Cot Dec Cot Dec Cot Dec Cot Dec Dec Dec Dec Dec Dec Dec Dec Dec Dec	6.6 -2.6 -1.7 4.2 -0.1 unge, latest month 6.1 6.8 5.9 5.6 2.5 0.7 0.4 -1.3 -0.1 -0.7 -1.0 -0.7 -1.0 -0.7 -1.0 -0.3 -0.4 -1.3 -0.3 0.6 -1.2 1.0	1.4 -3.4 -3.4 -4.4 -2.7 -0.3 on same month a yu -6.0 -10.1 -9.1 -9.1 -9.9 -5.1 -1.0 -3.0 -6.5 3.9 -6.1 -3.5 2.4 6.1 -3.5 2.4 6.8 2.8 6.8 2.8 6.8 5.6 -6.2 -10.8 -6.2 -10.8 -4.3	-5.3 2.3 1.1 0.4 ear ag(2.5 3.5 3.7 -0.8 3.1 1.8 3.9 2.4 -0.1 -1.0 -0.7 -2.7 -2.7 -0.8 -2.4 -0.1 -1.0 -0.7 -2.5 3.5 3.7 -0.8 -2.4 -0.1 -1.0 -0.7 -2.5 -0.8 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5 -2.5	$\begin{array}{c} -10.1\\ -1.9\\ -8.9\\ 2.7\\ \end{array}$	$\begin{array}{c} -1.9\\ -1.1\\ 2.8\\ 6.0\\ \end{array}$	-5.6 -2.6 -5.0 0.6 -8.1 -8.2 -2.2 -5.4 -7.7 -5.5 0.8 -7.7 -5.5 0.8 -7.7 -5.5 0.8 -7.7 -5.5 -5.5 -5.5 -5.5 -5.5 -5.5 -5.5
2011 2012 2013 2014 2015 Percentage cha 2014 Sep Oct Nov Dec 2015 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2016 Jan Feb Mar Apr Oct Nov Dec 2016 Jan Feb Mar Apr May Jun Jun Jul Feb Mar Apr May Jun Jun Jun Jun Jun Jun Jun Jun Jun Jun	6.6 -2.6 -1.7 4.2 -0.1 ange, latest month 6.1 6.8 5.9 5.6 2.5 0.7 0.4 -1.3 -0.1 -0.7 -1.0 -0.7 0.6 -0.3 -0.4 -1.3 -0.3 0.6 -1.2 1.0 2.4 1.5 0.7	1.4 -3.4 -3.4 -4.4 -2.7 -0.3 on same month a yu -6.0 -10.1 -9.1 -9.1 -9.9 -5.1 -1.0 -3.0 -6.5 3.9 6.1 -3.5 2.4 6.8 2.8 6.8 2.8 6.8 5.6 -6.2 -10.8 -4.3 -13.3 -8.7 -4.0	-5.3 2.3 1.1 0.4 ear age 2.5 3.5 3.7 -0.8 3.1 1.8 3.9 2.4 -0.1 -1.0 -0.1 -1.0 -0.7 -2.7 -1.0 -0.7 -2.7 -1.0 -0.8 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -2.9 -2.1 -0.8 -2.9 -2.1 -0.8 -2.9 -2.1 -0.8 -2.9 -2.1 -0.8 -2.9 -2.1 -0.8 -2.9 -2.1 -0.8 -2.9 -2.1 -0.8 -2.9 -2.1 -0.8 -2.9 -2.9 -2.1 -0.8 -2.9 -2.9 -2.9 -2.9 -2.9 -2.9 -2.9 -2.9	-10.1 -1.9 -8.9 2.7 -5.2 2.6 -3.0 -10.4 -2.7 3.7 -7.3 -7.3 -7.3 -7.3 -7.3 -7.3 -7.3 -7.3 -3.7 -4.5	$\begin{array}{c} -1.9\\ -1.1\\ 2.8\\ 6.0\\ \end{array}$	-5.1 -2.2 -5.1 -5.1 -6.1 -8.3 -2.2 -5.3 -7.7 -5.5 -0.1 -7.7 -6.1 -7.7 -6.1 -2.3 -0.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1
2011 2012 2013 2014 2015 Percentage cha 2014 Sep Oct Nov Dec 2015 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2016 Jan Feb Mar Apr Nov Dec 2016 Jan Feb Mar Apr May Jun	6.6 -2.6 -1.7 4.2 -0.1 ange, latest month 6.1 6.8 5.9 5.6 2.5 0.7 0.4 -1.3 -0.7 0.4 -1.3 -0.7 -1.0 -0.7 0.6 -0.3 -0.4 -1.3 -0.7 0.6 -1.2 1.0 2.4 1.5 0.7 0.2	1.4 -3.4 -3.4 -4.4 -2.7 -0.3 on same month a yu -6.0 -10.1 -9.1 -9.8 -9.9 -5.1 -1.0 -3.0 -6.5 3.9 -9.9 -6.5 3.9 -9.9 -6.5 -6.2 -10.8 -4.3 -13.3 -8.7 -4.0 5.6	-5.3 2.3 1.1 0.4 ear age 2.5 3.5 3.7 -0.8 3.1 1.8 3.9 2.4 -0.1 -1.0 -0.7 -2.7 -1.0 -1.6 0.7 0.8 -2.1 -2.9 -2.1 -0.4 2.2 0.5 0.1	$\begin{array}{c} -10.1\\ -1.9\\ -8.9\\ 2.7\\ \end{array}$	$\begin{array}{c} -1.9\\ -1.1\\ 2.8\\ 6.0\\ \end{array}$	-5.6 -2.6 -5.0 -6.8 -8.5 -2.1 -5.4 -5.4 -7.7 -5.5 -5.4 -7.7 -5.5 -2.2 -0.3 -7.1 -1.1 -1.1 -1.1 -1.1 -1.2 -2.4 -0.3 -1.1 -1.2 -3.4 -3.4 -3.4 -3.4 -5.6 -3.4 -5.6 -3.4 -5.6 -5.6 -5.6 -5.6 -5.6 -5.6 -5.6 -5.6
2011 2012 2013 2014 2015 Percentage cha 2014 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 Feb Mar Apr May Jun Jun Jul Feb Mar Apr May Jun Jun Jun Jun Jun Jun Jun Jun Jun Jun	6.6 -2.6 -1.7 4.2 -0.1 ange, latest month 6.1 6.8 5.9 5.6 2.5 0.7 0.4 -1.3 -0.1 -0.7 -1.0 -0.7 0.6 -0.3 -0.4 -1.3 -0.3 0.6 -1.2 1.0 2.4 1.5 0.7	1.4 -3.4 -3.4 -4.4 -2.7 -0.3 on same month a yu -6.0 -10.1 -9.1 -9.1 -9.9 -5.1 -1.0 -3.0 -6.5 3.9 6.1 -3.5 2.4 6.8 2.8 6.8 2.8 6.8 5.6 -6.2 -10.8 -4.3 -13.3 -8.7 -4.0	-5.3 2.3 1.1 0.4 ear age 2.5 3.5 3.7 -0.8 3.1 1.8 3.9 2.4 -0.1 -1.0 -0.7 -2.7 -1.0 -1.0 -1.6 0.7 -2.7 -1.0 -1.6 0.7 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1 -2.1	$\begin{array}{c} -10.1\\ -1.9\\ -8.9\\ 2.7\\ \end{array}$	$\begin{array}{c} -1.9\\ -1.1\\ 2.8\\ 6.0\\ \end{array}$	-5.8 -2.6 -5.0 0.6 -6.8 -8.5 -2.1 -5.4 -7.7 -5.5 -0.8 -7.7 -6.0 -2.2 9.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1 -1.1

Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

1

IOP5 Output of the Production Industries Chained volume indices of gross value added¹

Rubber and

Machinery and plastic products and non-metallic Basic metals and metal Computer, electronic and equipment not elsewhere Other manufacturing Electrical Transport mineral products products optical products classified and repair equipment equipment СН CI CJ СМ Section CG СК CL 64.4 55.0 83.1 36.2 20.9 50.6 92.0 Latest weight K23B K23G K23N K23P K23R K23T K23Z 100.0 102.1 2011 107.3 101.6 94.6 112.2 89.0 2012 102.8 104.9 92.9 102.9 102 1 1134 95.6 2013 100.0 100.0 100.0 100.0 100.0 100.0 100.0 113.1 2014 101.5 103.9 96.8 104.3 103.5 105.6 2015 109.8 102.0 103.7 101.9 98.1 91.1 109.6 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 88.6 110.1 107.2 116.3 114.4 Q2 113.5 99.7 100.8 917 90.2 108.1 Q3 99.7 108.3 100.8 89.8 90.8 111.6 100.4 99.8 104.5 2015 Sep 109.4 101.7 90.8 111.3 87.7 87.5 Oct 109.7 100.2 100.2 98.0 113.4 98.1 97.0 104.0 111.4 109.1 99.1 99.6 Nov Dec 109.6 98.5 102.0 96.0 89.4 111.2 103.9 111.7 101.6 101.7 95.0 88.3 111.5 108.0 2016 Jan Feb Mar 95.1 92.8 106.4 107.1 110.8 100.6 97.9 87.3 107.8 100.6 97.1 90.3 111.1 110.5 114.3 99.2 99.8 93.5 92.0 117.0 106.6 Apr May 113.3 99.9 101 7 90.0 89.8 116.6 107.0 Jun 112.7 99.9 100.9 91.6 88.7 115.4 110.5 111.5 100.0 100.2 89.8 90.2 113.5 108.6 Jul Aug 111.1 99.3 101.4 89.0 91.3 115.8 106.5 Sep 112.3 99.7 100.8 101.7 90.7 90.8 113.9 109.7 111.5 92.4 90.4 Oct 98.4 113.3 108.1 Nov 113.8 99.4 101.2 95.4 91.2 114.4 105.2 Percentage change, latest year on previous year -0.2 -4.2 -1.3 0.5 2011 4.4 -3.8 8.6 10.2 5.4 2012 10.9 4.4 7.6 -6.3 2.9 1.1 -2.8 -4.7 -11.8 4.6 2013 -2.8 -2.1 2014 13.1 15 39 -3.2 4.3 3.5 5.6 -12.7 2015 -1.8 1.3 5.9 -3.0 0.4 -1.8 Percentage change, latest month on same month a year ago 12.4 10.7 2014 Sep 11.0 -2.6 2.7 1.7 3.9 Oct -2.0 8.7 -7.2 -0.3 5.9 1.7 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 -14 -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 -34 31 -13 26 -9.3 39 19 May -3.1 0.5 0.8 4.2 -15.1 0.7 7.8 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 Sep -6.1 -4.0 -1.2 -0.4 4.7 2.5 -128 10.7 7.0 -8.1 -1.3 -1.4 -6.4 -12.9 -4.3 -4.0 -4.2 -5.8 Oct -0.5 6.6 -14.6 8.9 -8.8 -13.1 Nov -3.6 -0.2 4.8 -4.6 -4.5 -3.5 -3.5 4.4 -0.1 Dec -9.4 -11.6 2016 Jan 0.9 -2.1 -0.7 -1.8 -5.9 4.8 2.7 -4.4 -3.6 -3.3 -6.5 Feb Mar -2.8 -0.1 0.1 -8.7 1.6 -5.4 -3.8 -0.6 3.6 0.4 -2.8 3.6 -5.1 -6.0 -3.8 8.6 -0.1 Apr May 4.1 0.1 0.8 -8.7 -0.5 6.1 3.1 2.9 -7.1 -1.9 5.2 5.8 Jun -5.2 -6.2 1.5 03 -76 .lul -19 18 5.6 6.8 2.8 -2.4 -0.5 2.3 3.5 5.9 Aug -8.8 Sep Oct 2.7 1.6 -0.7 -1.8 -0.8 1.5 -9.1 -5.7 2.3 -0.1 5.0 10.1 т 3.2 4.3 0.3 1.6 -1.6 4.2 2.7 Nov 1.1

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

Seasonally adjusted 2013 = 100

Continued Output of the Production Industries Chained volume indices of gross value added¹

						Basi
	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	pharmaceutica products an preparation
Contine		•		•	•	
ection	CA	CB	CC	CD	CE	C
atest weight	114.2	25.4	51.0	9.2	39.8	58.
	K22B	K22P	K22T	K22X	K22Z	K23
Percentage cha	ange, latest month	on previous month				
014 Sep	-0.5	0.6	-0.6	1.0	4.0	-1.
Oct Nov	0.8	-2.4 1.5	- -0.6	2.4 -1.2	-1.4 2.0	-2. 3.
Dec	0.9	-4.3	-2.1	4.4	-1.1	0.
015 Jan	-1.1	3.1	3.8	-3.4	5.0	-1.
Feb	-0.3	5.0	-1.0	3.5	2.5	-2.
Mar	-0.2	2.9	-0.5	-8.3	-1.2	6.
Apr	-1.3 0.1	-1.1 3.4	-0.3 -1.3	-1.0	1.2 -4.5	-5. 8.
May Jun	-0.2	-1.0	-1.0	-2.4	-4.5	-9.
Jul	0.6	-2.0	0.4	15.3	1.0	5.
Aug	0.6	-8.4	0.4	0.3	0.1	-0.
Sep	0.7	6.7	1.1	1.8	-	1.
Oct	-0.1	1.8	-0.6	4.1	-0.2	3.
Nov Dec	-0.1 -0.1	-2.3 -0.5	1.8 -2.0	0.8 -5.9	0.9 -3.2	-6. 1.
016 Jan	-0.1	2.0	0.9	-3.4	0.1	-6.
Feb	0.6	-6.7	-1.8	-2.4	-1.4	7.
Mar	-2.0	-2.2	0.4	-8.4	-0.1	0.
Apr	0.8	6.1	1.4	1.8	1.4	8.
May Jun	1.5 -1.0	-6.3 4.2	1.6 -1.4	8.7 1.5	-1.0 -1.1	-7. -1.
Jul	-0.2	3.0	-1.2	-2.3	2.3	-4.
Aug	0.2	0.7	0.1	-1.9	-0.6	1.
Sep	0.7	-0.9	-	4.4	1.5	2.
Oct	-1.1				-1.3 ^T	
Nov	0.3	0.5	1.4	1.3	-0.6	11.
Percentage cha	ange, latest 3 mont	hs on same 3 montl	hs a year ago			
2014 Sep	3.9	-7.0	2.1	-10.3	2.5	-1.
Oct	5.7	-8.3	3.1	-5.4	1.4	-3.
Nov Dec	6.3 6.1	-8.4 -9.7	3.2 2.1	-1.9 -4.0	3.0 2.4	-5. -5.
015 Jan	4.7	-9.6	2.0	-5.6	3.4	-0.
Feb	2.9	-9.0 -8.2	1.4	-3.5	5.5	-0.
Mar	1.2	-5.4	2.9	-2.2	7.5	0.
Apr	-0.1	-3.0	2.7	-3.8	8.6	-4.
May	-0.4	-3.6	2.0	-7.1	6.3	-0.
Jun	-0.7	-2.0	0.4	-6.1	6.2	-1.
Jul	-0.6	0.8	-0.6	-0.3	5.2	1.
Aug	-0.8	2.2	-1.5	5.0	7.0	-1.
Sep Oct	-0.4 -0.1	1.7 1.9	-1.5 -1.8	9.7 10.5	6.1 6.2	0. 3.
Nov	-0.1	4.0	-0.6	12.1	4.9	3.
Dec	-0.7	5.4	-	9.6	4.2	2.
016 Jan	-0.7	5.0	-0.2	6.6	1.5	-2.
Feb	-0.4	1.9	-1.4	0.9	-2.1	-0.
Mar	-0.3	-4.0	-2.4	-1.0	-4.5	-0.
Apr May	0.1	-7.1	-1.8	-2.2	-5.3	5.
May Jun	0.7 1.6	-9.5 -8.8	- 1.4	1.6 6.8	-3.7 -3.2	2. 4.
Jul	1.5	-8.7	1.7	5.1	-2.4	-1.
Aug	0.8	-2.6	0.9	-0.1	-3.0	-1.
Sep	0.4	-0.2	-0.1	-5.1	-2.3	-4.
Oct	-0.1	-1.1 ^T			-2.4 [†]	
Nov	-0.4	-4.1	-1.1	-5.3	-2.8	-1.

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IOP5 Output of the Production Industries Chained volume indices of gross value added¹

	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	Othe manufacturin and repa
ection	CG	СН	CI	CJ	СК	CL	CI
atest weight	55.0	83.1	36.2	20.9	50.6	92.0	64.
Ū	K23B	K23G	K23N	K23P	K23R	K23T	K23
ercentage ch	nange, latest month o	on previous mon	th				
014 Sep	-1.0	-1.2	6.2	4.5	1.9	2.9	-3.
Oct	0.6	-1.1	-3.7	-5.6	-1.5	0.1	1.
Nov Dec	-0.9 1.0	2.1 -0.7	1.0 6.5	5.7 2.4	-1.9 0.3	2.1 0.1	1. -4.
Dee	1.0	0.7	0.0	2.4	0.0	0.1	ч.
015 Jan	-3.5	1.7	-9.1	-2.8	-7.2	-	1.
Feb	-	1.4	-1.5	1.7	1.9	1.5	-0.
Mar	0.4 -0.8	-0.9 0.3	1.9	1.0 0.1	-1.7 1.8	-0.7 0.5	1. 0.
Apr May	-0.8 -1.3	-4.5	-1.7	-0.9	-5.5	2.0	-2.
Jun	0.6	5.5	6.5		0.1	-0.2	0.
lul.	0.0	E 4	5.0	-1.5	1.0	2.0	0
Jul Aug	0.2 -1.6	-5.4 2.2	-5.0 -0.2	-1.5	-1.9 0.7	-2.0 4.1	-2. -1.
Sep	1.2	-1.4	-0.2	2.3	1.8	-0.5	3.
Oct	0.3	-0.2	-1.4	-1.8	-3.5	1.9	-6.
Nov	-0.6	-1.1	-0.6	-1.0	-0.1	-1.8	6.
Dec	0.5	-0.7	2.4	-1.0	2.1	-0.2	-0.
16 Jan	1.9	3.2	-0.4	-1.1	-1.2	0.3	3
Feb	-0.8	-0.9	-3.7	0.1	-1.1	-3.3	-1
Mar	-0.3	-	-0.8	-2.4	3.5	3.0	0
Apr May	3.5 -0.9	-1.4 0.7	2.8 1.9	0.7 -3.7	1.8 -2.3	5.3 -0.3	-0 0
Jun	-0.5	-0.1	-0.8	1.7	-2.3	-0.3	3
lul.	1.1	0.1	0.7	-2.0	1.0	17	-1
Jul Aug	-1.1 -0.4	0.1 -0.7	-0.7 1.3	-2.0 -0.8	1.8 1.2	-1.7 2.0	-1
Sep	1.1	0.4	-0.6	1.9	-0.6	-1.6	3
Oct	-0.7 [†]	-1.3		1.8		-0.6	
Nov	2.1	1.0	-0.5	3.3	0.9	1.0	-2.
ercentage cl	nange, latest 3 montl	ns on same 3 mo	nths a year ago				
014 Sep	12.9	1.9	6.5	-4.1	3.8	1.9	5.
Oct	12.2	0.5	7.5	-5.8	1.9	1.4	5.
Nov	10.6	-0.4	9.1	-3.7	0.9	2.5	6.
Dec	9.8	-0.6	10.5	-2.2	-0.4	5.2	5
15 Jan	6.1	0.6	6.9	0.1	-3.8	6.7	2
Feb	3.2	1.4	4.2	1.6	-7.2	7.6	0
Mar	-0.2	2.9	-0.4	1.1	-10.6	5.7	1
Apr May	-1.3 -2.3	3.4 2.4	-0.4 0.1	2.1 2.5	-10.3 -12.0	4.9 5.3	2
Jun	-2.9	2.2	2.4	1.2	-13.1	5.0	0
Jul	-3.0	1.2	2.6	0.1	-15.5	4.6	-1
Aug	-4.0	0.6	2.2	0.2	-14.7	5.5	-4
Sep	-4.6	-0.8	-2.5	2.1	-14.1	6.8	-4
Oct	-4.8	-1.0	-3.7	4.5	-13.4	8.9	-6
Nov	-4.1	-1.8	-5.5	2.9	-13.5	6.9	-4
Dec	-4.2	-2.5	-6.5	0.8	-13.1	6.0	-4
16 Jan	-2.6	-3.1	-5.4	-1.9	-10.3	4.7	-0
Feb	-1.2	-3.4	-4.5	-2.9	-8.8	3.0	1
Mar	0.1	-3.4 -4.4	-3.0 -3.7	-3.9	-6.1 -5.4	2.7	1.
Apr May	1.0 2.4	-4.4 -2.9	-3.7 -2.5	-5.3 -7.1	-5.4 -2.7	4.0 6.1	0 1
May Jun	2.4 3.5	-2.9 -3.5	-2.5 -2.8	-7.1	-2.7 -2.1	6.1 6.6	2
Jul	2.8	-1.7	-2.5	-7.8	-0.2	5.6	5
Aug	2.4	-2.5	-2.9	-7.8	0.2	4.8	6
Sep	2.3	-0.9	-1.1	-8.5	1.3	3.8	5
Oct	2.4 [†]	-1.6	0.1 *	-7.9	1.8 †	1.9	
001			0.7	7.0	1.0	1.5	5

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

Continued Output of the Production Industries Chained volume indices of gross value added¹

						Basic
	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	pharmaceutica products and preparations
Section	CA	СВ	CC	CD	CE	CF
Latest weight	114.2	25.4	51.0	9.2	39.8	58.7
Jan Star	K22B	K22P	K22T	K22X	K22Z	K239
Percentage cha	ange, latest 3 mont	hs on previous 3 m	onths			
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 ^T	-1.4		1.0 ^T	
Nov	0.1	-1.3	-0.3	4.1	0.7	3.6

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

IOP5 Output of the Production Industries Chained volume indices of gross value added¹

	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 repai
Section	CG	СН	CI	CJ	СК	CL	CM
atest weig	ht 55.0	83.1	36.2	20.9	50.6	92.0	64.4
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
ercentage	e change, latest 3 mont	hs on previous 3	months				
014 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
015 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.
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
016 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		0.3		-0.7	-0.6
Nov	0.7	-0.6	0.4	3.0	0.8	-0.9	-0.8

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



Revisions to Output of the Production Industries, November 2016

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 Percentage change, latest month on previous month Percentage change, latest 3 months on same 3 months a year ago Page 2 Percentage change, latest 3 months on previous 3 months Page 3 Output by Manufacturing sub-sectors part 1 Page 4 Percentage change, latest year on previous year Percentage change, latest month on same month a year ago Page 5 Output by Manufacturing sub-sectors part 2 Percentage change, latest year on previous year Percentage change, latest month on same month a year ago Percentage change, latest month on previous month part 1 Percentage change, latest 3 months on same 3 months a year ago Page 6 Percentage change, latest month on previous month part 2 Page 7 Percentage change, latest 3 months on same 3 months a year ago Page 8 Percentage change, latest 3 months on previous 3 months part 1

Page 9 Percentage change, latest 3 months on previous 3 months part 2

Enquiries

Output of the Production Industries Chained volume indices of gross value added¹

			Broad ind	ustry groups				Mair	n industrial group	bings	
	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
Section	B+C+D+E	B	С	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MG-NRC
	1 000.0	120.4	700.4	104.5	74.7	96.2	52.1	208.2	235.8	254.6	232.7
Latest weight	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24
	ILLL	INEL-F	NEE/1	11240	11240	NEE0	TIL TO	142-111	TAL+0	N2+0	TAL+
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	0.2	0.8	-	0.8	0.5	1.1	-	0.3	-0.1	-0.2	0.8
Percentage cha	nge, latest year o	on previous ve	ar								
	ilgo, latoot your t										
2011 2012	-		-	-	-	-		-	-	-	-
2013	-	-	-	-	-	-	-	-	-	-	
2014 2015	-		-	-	-	-			-	-	-
	nge, latest montl	n on same moi	nth 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	0.2	0.7	-0.1	0.8	0.4	1.0	0.1	0.3	-0.1	-0.3	0.8

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

Output of the Production Industries Chained volume indices of gross value added¹

			Broad ind	lustry groups				Ma	in industrial groupi	ngs	
	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	Energ
Section	B+C+D+E	В	С	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MG-NRC
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
Latoot Wolght	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24
Percentage char	nge, latest mon	h on previous	month								
2014 Aug	-	-			-		-				
Sep Oct	-	-	-	-	-	-	-	-	-	-	
Nov					-	-	-	-		-	
Dec	-	-	-	-	-	-	-	-	-	-	
015 Jan	-		-	-	-	-		-	-	-	
Feb	-	-	-	-	-	-	-	-	-	-	
Mar	-	-	-	-	-	-	-	-	-	-	
Apr May			-		-	-		-	-	-	
Jun	-	-	-	-	-	-	-	-	-	-	
lul.											
Jul Aug	-		-	-	-	-		-	-	-	
Sep	-	-	-	-	-	-		-	-	-	
Oct	-	-	-	-	-	-	-	-	-	-	
Nov Dec					-						
Dee											
2016 Jan	-	-	-	-	-	-	-	-	-	-	
Feb Mar			-		-		-	-		-	
Apr	-	_			-	-	-	_		-	
May	-	-	-	-	-	-	-	-	-	-	
Jun	-	-	-	-	-	-	-	-	-	-	
Jul	-	-	-		-	-	-	-	-	-	
Aug	-	-	-	-	-	-	-	-	-	-	
Sep Oct	0.2	- 0.7	- -0.1	- 0.8	- 0.5	- 1.0	- 0.1	- 0.3	-0.2	-0.2	0.8
001	0.2	0.7	0.1	0.0	0.0	1.0	0.1	0.0	0.2	0.2	0.0
Percentage char	nge, latest 3 mo	nths on same	3 months a yea	r 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	-				-	-		-		-	
C			-					-			
Sep Oct	0.1	0.2		0.3	0.1	0.3		0.1	-0.1	-0.1	0.2

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

Output of the Production Industries Chained volume indices of gross value added¹

			Broad ind	lustry groups				Ma	in industrial group	ings	
	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
Section	B+C+D+E	В	С	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MG-NRC
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	K241
Percentage cha	nge, latest 3 mo	nths on previo	ous 3 months								
2014 Aug		-	-	-	-	-	-	-	-	-	
Sep	-	-	-	-	-	-	-	-	-	-	
Oct	-	-	-	-	-	-	-	-	-	-	
Nov Dec	-	-	-	-	-	-	-	-	-	-	
Dec	-	-	-	-	-	-	-	-	-	-	
015 Jan	-	-		-	-	-	-	-	-		
Feb	-	-	-		-	-	-	-	-	-	
Mar	-	-	-	-	-	-	-	-	-	-	
Apr	-	-	-	-	-	-	-	-	-	-	
May	-	-	-	-	-	-	-	-	-	-	
Jun	-	-	-	-	-	-	-	-	-	-	
Jul	-	-		-	-	-	-	-	-		
Aug	-	-		-	-	-	-	-	-		
Sep	-	-	-		-	-	-	-	-	-	
Oct	-	-	-	-	-	-	-	-	-	-	
Nov	-	-	-	-	-	-	-	-	-	-	
Dec	-	-	-	-	-	-	-	-	-	-	
016 Jan	-		-	-	-	-		-	-	-	
Feb	-	-	-	-	-	-	-	-	-	-	
Mar	-	-	-	-	-	-	-	-	-	-	
Apr	-	-	-	-	-	-	-	-	-	-	
May Jun											
Jul	-	-	-	-	-	-	-	-	-	-	
Aug	-	-	-	-	-	-	-	-	-	-	
Sep Oct		- 0.2		- 0.2	- 0.1	- 0.3	-	- 0.1	- -0.1	-0.1	0.2

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

Output of the Production Industries Chained volume indices of gross value added¹

	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	СВ	CC	CD	CE	CF
Latest weight	114.2	25.4	51.0	9.2	39.8	58.7
Latest weight	K22B	K22P	K22T	K22X	K22Z	K239
2011	-	-	-	-	-	-
2012 2013	-	-	-	-	-	-
2014	-	-	-	-	-	-
2015	-	-	-	-	-	-
2015 Q3 Q4	-	-	-	-	-	-
2016 Q1		_	_	_	_	
Q2	-	-	-	-	-	-
Q3	-	-	-	-	-	-
2015 Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct Nov	-	-	-	-	-	
Dec	-	-	-	-	-	-
016 Jan	-	-	-	-	-	
Feb Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	
Oct	inge, latest year or	0.9	0.2	0.2	-0.5	0.7
2011	inge, latest year of	i previous year				
012	-	-	-	-	-	
013 014	-	-	-	-	-	
2015	-	-	-	-	-	-
ercentage cha	inge, latest month	on same month a ye	ear ago			
2014 Aug	-	-	-	-	-	-
Sep Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
015 Jan	-	-	-	-	-	
Feb Mar	-	-	-	-	-	
Apr	-	-	-	-	-	
May Jun	-	-	-	-	-	
Jul	-	-	-	-	_	-
Aug	-	-	-	-	-	
Sep Oct	-	-	-	-	-	
Nov	-	-	-	-	-	
Dec	-	-	-	-	-	
016 Jan Feb	-	-	-	-	-	
Feb Mar	-	-	-	-	-	
Apr	-	-	-	-	-	-
May Jun	-	-	-	-	-	
Jul	-	-	-	-	-	
Αμα	-	-				
Aug Sep Oct	-	- - 1.0	0.3	0.1	-0.5	0.7

Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

1

Output of the Production Industries

						Seasonally adjuste	a 2013 - 100
	Rubber and plastic products and non-metallic	Basic metals and metal	Computer, electronic and	Electrical	Machinery and equipment not elsewhere	Transport	Other manufacturing
	mineral products	products	optical products	equipment	classified	equipment	and repair
Section	CG	CH	CI	CJ	CK	CL	CM
atest weight	55.0	83.1	36.2	20.9	50.6	92.0	64.4
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
011 012	-	-	-	-	-	-	
013	-	-	-	-	-	-	
014	-	-	-	-	-	-	
015	-	-	-	-	-	-	
015 Q3	-	-	-	-	-	-	
Q4	-	-	-	-	-	-	
016 Q1	-	-	-	-	-	-	
Q2	-	-	-	-	-	-	
Q3	-	-	-	-	-	-	
015 Aug	-	-	-	-	-	-	
Sep	-	-	-	-	-	-	
Oct Nov	-	-	-	-	-	-	
Dec	-	-	-	-	-	-	
016 Jan	-	-	-	-	-	-	
Feb Mar	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	
May	-	-	-	-	-	-	
Jun	-	-	-	-	-	-	
Jul Aug	-	-	-	-	-	-	
Sep	-	-	-	-	-	-	
	- -0.3	-0.2	0.2	0.2	-0.4	-0.3	-0.2
Sep Oct	- -0.3 nange, latest year o		0.2	0.2		-0.3	-0.2
Sep Oct ercentage cl			0.2	0.2		-0.3	-0.2
Sep Oct Percentage cl 011 012			0.2	0.2		-0.3	-0.2
Sep Oct Percentage cl 011 012 013 013			0.2	0.2		-0.3 -0.3 - -	-0.2
Sep Oct Percentage cl 011 012 013 014 015	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2 - - - -		-0.3 -0.3 - - - -	-0.2
Sep Oct Percentage cl 011 012 013 014 015		n previous yea - - - - - -	- - - -	0.2		-0.3 -0.3 - - - - -	-0.2
Sep Oct ercentage cl 011 012 013 014 015 ercentage cl 014 Aug	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2		-0.3 - - - - - - -	-0.2
Sep Oct ercentage cl 011 012 013 014 015 ercentage cl 014 Aug Sep	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2		-0.3	-0.2
Sep Oct ercentage cl 011 012 013 014 015 ercentage cl 014 Aug	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2 - - - - - - - - - - - - - - - - - - -		-0.3 -0.3 - - - - - - - - - - - -	-0.2
Sep Oct ercentage cl 011 012 013 014 015 ercentage cl 014 Sep Oct	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2		-0.3 - - - - - - - - - - - - - - - - -	-0.2
Sep Oct Percentage cl 011 012 013 014 015 Percentage cl 014 Aug Sep Oct Nov Dec	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2		-0.3 -0.3 - - - - - - - - - - - - - - - - -	-0.2
Sep Oct Percentage cl 011 012 013 014 015 Percentage cl 015 014 Aug Sep Oct Nov Dec 015 Jan Feb	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2 - - - - - - - - - - - - - - - - - - -		-0.3 - - - - - - - - - - - - - - - - - - -	-0.2
Sep Oct ercentage cl 011 012 013 014 015 ercentage cl 014 015 014 Sep Oct Nov Dec 015 Jan Feb Mar	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2		-0.3	-0.2
Sep Oct ercentage cl 011 012 013 014 015 ercentage cl 015 014 Aug Sep Oct Nov Dec 015 Jan Feb	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2		-0.3	-0.2
Sep Oct 011 012 013 014 015 ercentage cl 014 Aug Sep Oct Nov Dec 015 Jan Feb Mar Apr	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2		-0.3 -0.3 - - - - - - - - - - - - - - - - - - -	-0.2
Sep Oct Percentage cl 011 012 013 014 015 Percentage cl 014 Aug Oct Nov Dec 015 Jan Feb Mar Apr May Jun Jul	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2		-0.3	-0.2
Sep Oct ercentage cl 011 012 013 014 015 ercentage cl 014 015 014 Aug Sep Oct Nov Dec 015 Jan Feb Mar Apr May Jun Jul Aug	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2		-0.3	-0.2
Sep Oct ercentage cf 011 012 013 014 015 ercentage cf 014 Aug Oct Nov Dec 015 Jan Feb Mar Apr May Jun Jul	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2		-0.3	-0.2
Sep Oct 011 012 013 014 015 ercentage cl 014 Nov Dec 015 014 Nov Dec 015 Jan Feb Mar Agr May Jun Jul Aug Sep Oct Nov	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2		-0.3	-0.3
Sep Oct 011 012 013 014 015 ercentage cl 014 015 ercentage cl 014 Nov Dec 015 014 Nov Dec 015 015 Un Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2		-0.3 -0.3 	-0.2
Sep Oct 11 012 013 014 015 ercentage cl 014 Aug Oct Nov Dec 015 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 015	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2		-0.3	-0.2
Sep Oct 011 012 013 014 015 ercentage cl 014 015 ercentage cl 014 014 Nov Dec 015 Jan Apr May Jun Jul Aug Sep Oct Nov Dec 015 Un Sep Oct Nov Dec	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2		-0.3	-0.2
Sep Oct 011 012 013 014 015 ercentage cl 014 015 ercentage cl 014 015 014 015 014 015 014 015 015 015 015 016 016 015 015 015 015 016 015 010 015 010 010 010 010 010 010 011 011	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2		-0.3	-0.2
Sep Oct 011 012 013 014 015 ercentage cl 014 015 ercentage cl 014 014 Nov Dec 015 Jan Apr May Jun Jul Aug Sep Oct Nov Dec 015 Un Sep Oct Nov Dec	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2		-0.3	-0.2
Sep Oct Percentage cl 011 012 013 014 015 Percentage cl 014 Nov Dec 015 014 Nov Dec 015 015 014 Nov Dec 015 015 Jan Feb Mar Apr May Jun Ul Aug Sep Oct Nov Dec 016 Nov Dec	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -	0.2		-0.3	
Sep Oct Percentage cl 2011 2012 2013 2014 2015 Percentage cl 2014 2015 Percentage cl 2014 2014 2015 Percentage cl 2014 2014 2015 Percentage cl 2014 2014 2014 2014 2014 2014 2014 2014	nange, latest year c - - - - - - -	n previous yea - - - - - -	- - - -			-0.3	

Chained volume indices of gross value added¹

Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

1

Output of the Production Industries

Seasonally adjusted 2013 = 100 Basic Food products, Textiles, wearing Wood and Coke and Chemicals pharmaceutical beverages and tobacco apparel and leather products paper products and printing refined petroleum products and chemical products products and preparations СС Section CA СВ CD CE CF 114.2 25.4 51.0 9.2 39.8 58.7 Latest weight 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

Chained volume indices of gross value added¹

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



Output of the Production Industries

Chained volume indices of gross value added¹

Seasonally adjusted 2013 = 100 Machinery and equipment not Rubber and plastic products Basic metals Computer, Other and non-metallic and metal electronic and Electrical elsewhere Transport manufacturing mineral products products optical products equipment classified equipment and repair Section СН CI CJ СК CL СМ CG 55.0 50.6 92.0 64.4 83.1 36.2 20.9 Latest weight K23B K23N K23P K23R K23T K23G 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 0.2 Oct -0.3 -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

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

Output of the Production Industries

Chained volume indices of gross value added¹

continued					Seasonally a	adjusted 2013 = 10
	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	Basi pharmaceutica products an preparation
Section	CA	СВ	CC	CD	CE	CI
atest weight	114.2	25.4	51.0	9.2	39.8	58.
	K22B	K22P	K22T	K22X	K22Z	K23
Percentage cha	ange, latest 3 mont	ths on previous 3 m	onths			
2014 Aug	-	-	-	-	-	
Sep	-	-	-	-	-	
Oct	-	-	-	-	-	
Nov	-	-	-	-	-	
Dec	-	-	-	-	-	
2015 Jan	-	-	-	-	-	
Feb	-	-	-	-	-	
Mar	-	-	-	-	-	
Apr	-	-	-	-	-	
May	-	-	-	-	-	
Jun	-	-	-	-	-	
Jul	-	-	-	-	-	
Aug	-	-	-	-	-	
Sep	-	-	-	-	-	
Oct	-	-	-	-	-	
Nov	-	-	-	-	-	
Dec	-	-	-	-	-	
016 Jan	-	-	-	-	-	
Feb	-	-	-	-	-	
Mar	-	-	-	-	-	
Apr	-	-	-	-	-	
May	-	-	-	-	-	
Jun	-	-	-	-	-	
Jul	-	-	-	-	-	
Aug	-	-	-	-	-	
Sep	-	-	-	-	-	
Oct	-	0.4	0.1	0.1	-0.2	0.

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



Output of the Production Industries

Chained volume indices of gross value added¹

Seasonally adjusted 2013 = 100 Rubber and plastic products and non-metallic Machinery and equipment not Computer, electronic and Basic metals Other and metal Electrical elsewhere manufacturing Transport optical products mineral products classified and repair products equipment equipment Section CG СН CI CJ CK CL СМ 55.0 83.1 36.2 20.9 50.6 92.0 64.4 Latest weight 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 -0.1 0.1 Oct -0.1 0.1 -0.2 -0.1

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