



Press Release

GDP growth of 0.5 per cent in the 3 months to October

Embargo until 13.00 hours on 11^h November 2017

Our monthly estimates of GDP suggest that output expanded by 0.5 per cent in the three months to October, slightly stronger than the official outturn for the third quarter of 2017 which was 0.4 per cent. The monthly estimate is closely tracking our forecast for real GDP growth for the final quarter of this year which also stands at 0.5 per cent.

Amit Kara, Head of UK Macroeconomic Forecasting at NIESR, said “*We estimate that economic growth recovered to 0.5 per cent in the three months to October from 0.4 per cent in the third quarter.*”

Although economic growth is likely to be stronger in the second half of this year compared with the first, it is important to note that activity has slowed since last year and this at a time when growth in other OECD countries has strengthened. Looking ahead, we expect the pattern of demand in the UK economy to rebalance towards international trade in response to strengthening global growth and weaker sterling and away from domestic demand.

If, as we expect, the economy continues to expand at this pace and inflation remains elevated, there is a case for the Bank of England to gradually raise the policy rate to stop the economy from overheating. Consistent with that view, our latest forecast for the UK is conditioned on a 25 basis points increase in Bank Rate every six months such that the policy rate reaches 2 per cent in 2021”.

Technical notes: Our track record in producing early estimates of GDP suggests that our projection for the most recent three-month period has a root mean squared error (RMSE) of 0.224% point (for the full sample period 1999Q3-2015Q4) when compared to the first estimate produced by the ONS. For the period 2008Q1 to 2015Q4 the RMSE is 0.290% point. The impact of the adverse weather in 2010Q4 is a noticeable outlier. Excluding 2010Q4 from the analysis, the RMSE for the full sample period is 0.188% point, and for 2008Q1 to 2015Q4 the RMSE is 0.231% point. These comparisons can be made only for complete calendar quarters. Outside calendar quarters the figures are less reliable than this.

A paper describing the methodology used to produce the data was published in the February 2005 volume of the *Economic Journal*:

Mitchell, J. Smith, R. J., Weale, M. R., Wright, S. and Salazar, E. L. (2005) ‘An Indicator of Monthly GDP and an Early Estimate of Quarterly GDP Growth’, *Economic Journal*, No. 551, pp. F108-F129.

- Available from: [http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1468-0297](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1468-0297)

A paper describing the methodology used to produce the data for the inter-war period was published in the October 2012 volume of *Explorations in Economic History*:

Mitchell, J., Solomou, S. and Weale, M. (2012) 'Monthly GDP estimates for inter-war Britain', *Explorations in Economic History*, Vol. 49, No. 4, pp. 543-556.

- Available from: <http://www.journals.elsevier.com/explorations-in-economic-history/>

From April until October 2006 our estimates were computed using the Index of Services published by ONS. However this monthly series shows considerable volatility which has caused us some problems in estimating GDP. From our November 2006 press release we have therefore reverted to using a model of private services output based on indicator variables. This means that, while all our figures for calendar quarters are fully coherent with ONS data, our estimates of monthly private service output are not. The series can be thought of as indicating the underlying value of the ONS series.

Notes for editors: For further information please contact the NIESR Press Office or Luca Pieri on 020 7654 1931/ L.pieri@niesr.ac.uk

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Contents of Press Release

Table 1, Page 3: Summary Table of Quarterly Growth Rates showing Monthly Data, 3 months ending in that month, and Quarterly Growth (% per quarter). All contain Figures for Industry & GDP.

Table 2, Page 4: Output by Sector (Industry, Agriculture, Construction, Private Services, Public Services, GDP(B) (calculated at prices excluding taxes and subsidies), GDP

Table 3, Page 5: Output in Quarter Ending in Month Shown by sector (as above)

Table 4, Page 6: Growth in Quarter Ending in Month Shown over Previous Quarter (% at Annual Rate) by sector (as above)

More...

Table 1: Summary Table of Quarterly Growth Rates (2015=100)

	Monthly Data		3 months ending in month shown		Quarterly Growth % per quarter	
	Industry	GDP	Industry	GDP	Industry	GDP
Jan-16	99.65	101.2	99.4	101.1	-1.2%	0.5%
Feb-16	99.36	101.0	99.3	101.0	-1.1%	0.3%
Mar-16	100.04	101.1	99.7	101.1	-0.1%	0.2%
Apr-16	102.38	101.6	100.6	101.2	1.2%	0.2%
May-16	101.69	101.5	101.4	101.4	2.1%	0.3%
Jun-16	101.60	101.7	101.9	101.6	2.2%	0.5%
Jul-16	101.60	102.0	101.6	101.7	1.0%	0.5%
Aug-16	101.31	101.9	101.5	101.9	0.1%	0.5%
Sep-16	101.21	102.1	101.4	102.0	-0.5%	0.4%
Oct-16	100.33	102.2	100.9	102.1	-0.7%	0.3%
Nov-16	102.38	103.0	101.3	102.4	-0.2%	0.5%
Dec-16	103.54	102.6	102.1	102.6	0.7%	0.6%
Jan-17	103.06	102.7	103.0	102.8	2.0%	0.7%
Feb-17	102.28	102.9	103.0	102.8	1.6%	0.3%
Mar-17	101.60	102.7	102.3	102.8	0.2%	0.2%
Apr-17	101.79	103.2	101.9	102.9	-1.1%	0.2%
May-17	101.99	103.0	101.8	103.0	-1.1%	0.2%
Jun-17	102.38	103.1	102.1	103.1	-0.3%	0.3%
Jul-17	102.77	103.3	102.4	103.1	0.5%	0.2%
Aug-17	103.06	103.5	102.7	103.3	0.9%	0.3%
Sep-17	103.80	103.7	103.2	103.5	1.1%	0.4%
Oct-17	103.70	103.7	103.5	103.7	1.1%	0.5%

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Table 2: Output by Sector (2015=100)

	Industry	Agriculture	Construction	Private Services	Public Services	GDP(B)	GDP
Jan-16	99.65	95.9	100.9	102.0	100.9	101.0	101.2
Feb-16	99.36	94.7	101.2	101.7	101.3	100.7	101.0
Mar-16	100.04	94.1	101.9	102.2	100.9	100.9	101.1
Apr-16	102.38	94.1	103.0	102.4	100.9	101.4	101.6
May-16	101.69	94.0	103.6	102.4	101.1	101.3	101.5
Jun-16	101.60	93.9	103.9	102.8	101.3	101.5	101.7
Jul-16	101.60	93.7	103.7	103.3	101.6	101.7	102.0
Aug-16	101.31	93.7	103.9	103.3	101.5	101.6	101.9
Sep-16	101.21	94.0	104.4	103.6	101.5	101.8	102.1
Oct-16	100.33	94.5	105.4	104.1	101.5	101.9	102.2
Nov-16	102.38	94.8	106.3	104.8	101.6	102.7	103.0
Dec-16	103.54	94.8	107.2	103.7	101.7	102.3	102.6
Jan-17	103.06	94.6	108.0	103.8	102.0	102.5	102.7
Feb-17	102.28	94.4	108.4	104.4	101.8	102.7	102.9
Mar-17	101.60	94.2	108.4	104.1	102.1	102.6	102.7
Apr-17	101.79	94.1	108.1	104.8	102.3	103.0	103.2
May-17	101.99	94.2	107.7	104.5	102.2	102.8	103.0
Jun-17	102.38	94.5	107.4	104.7	102.2	102.9	103.1
Jul-17	102.77	95.0	107.1	104.9	102.3	103.1	103.3
Aug-17	103.06	95.4	106.9	105.2	102.4	103.3	103.5
Sep-17	103.80	95.5	106.8	105.3	102.5	103.5	103.7
Oct-17	103.70	95.5	106.8	105.4	102.6	103.5	103.7

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Table 3: Output in Quarter Ending in Month Shown (2015=100)

	Industry	Agriculture	Construction	Private Services	Public Services	GDP(B)	GDP
Jan-16	102.2	97.7	100.9	101.4	100.9	100.9	101.1
Feb-16	102.1	96.2	101.0	101.7	101.1	100.9	101.0
Mar-16	102.4	94.9	101.3	102.0	101.0	100.9	101.1
Apr-16	103.4	94.3	102.0	102.1	101.0	101.0	101.2
May-16	104.2	94.1	102.8	102.3	101.0	101.2	101.4
Jun-16	104.7	94.0	103.5	102.5	101.1	101.4	101.6
Jul-16	104.4	93.9	103.7	102.8	101.3	101.5	101.7
Aug-16	104.3	93.8	103.8	103.1	101.4	101.6	101.9
Sep-16	104.2	93.8	104.0	103.4	101.5	101.7	102.0
Oct-16	103.7	94.1	104.6	103.7	101.5	101.7	102.1
Nov-16	104.1	94.4	105.4	104.2	101.5	102.1	102.4
Dec-16	104.9	94.7	106.3	104.2	101.6	102.3	102.6
Jan-17	105.8	94.7	107.2	104.1	101.8	102.5	102.8
Feb-17	105.8	94.6	107.9	104.0	101.9	102.5	102.8
Mar-17	105.1	94.4	108.3	104.1	102.0	102.6	102.8
Apr-17	104.7	94.3	108.3	104.5	102.1	102.8	102.9
May-17	104.6	94.2	108.1	104.5	102.2	102.8	103.0
Jun-17	104.9	94.3	107.7	104.7	102.2	102.9	103.1
Jul-17	105.2	94.6	107.4	104.7	102.2	102.9	103.1
Aug-17	105.6	95.0	107.1	104.9	102.3	103.1	103.3
Sep-17	106.1	95.3	106.9	105.1	102.4	103.3	103.5
Oct-17	106.4	95.5	106.8	105.3	102.5	103.5	103.7

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Table 4: Growth in Quarter Ending in Month Shown over Previous Quarter (% at Annual Rate)

	Industry	Agriculture	Construction	Private Services	Public Services	GDP(B)	GDP
Jan-16	-4.8%	-9.4%	3.8%	3.8%	3.9%	2.1%	2.1%
Feb-16	-4.2%	-13.6%	2.4%	3.7%	3.4%	0.9%	1.1%
Mar-16	-0.4%	-15.6%	2.0%	4.0%	1.6%	0.4%	0.8%
Apr-16	4.8%	-13.1%	4.3%	2.7%	0.6%	0.4%	0.7%
May-16	8.5%	-8.5%	7.3%	2.6%	-0.5%	1.3%	1.4%
Jun-16	9.1%	-3.7%	9.0%	2.2%	0.4%	2.0%	2.0%
Jul-16	4.2%	-1.8%	7.0%	2.9%	1.3%	2.0%	2.1%
Aug-16	0.5%	-1.3%	3.9%	3.2%	1.9%	1.7%	1.9%
Sep-16	-2.0%	-0.8%	1.9%	3.4%	1.6%	1.2%	1.6%
Oct-16	-2.7%	0.9%	3.2%	3.2%	0.6%	0.9%	1.3%
Nov-16	-0.8%	2.9%	6.2%	4.0%	0.3%	1.9%	2.1%
Dec-16	2.8%	3.9%	9.1%	3.1%	0.4%	2.4%	2.4%
Jan-17	8.3%	2.8%	10.3%	1.7%	1.3%	3.0%	2.8%
Feb-17	6.7%	0.7%	9.8%	-0.7%	1.4%	1.7%	1.3%
Mar-17	0.9%	-1.3%	7.7%	-0.2%	1.6%	1.2%	0.8%
Apr-17	-4.2%	-1.9%	4.3%	1.4%	1.1%	1.0%	0.7%
May-17	-4.5%	-1.6%	0.7%	2.0%	1.2%	1.0%	0.8%
Jun-17	-1.0%	-0.4%	-2.2%	2.1%	0.8%	1.2%	1.2%
Jul-17	1.9%	1.5%	-3.4%	0.9%	0.5%	0.7%	0.7%
Aug-17	3.7%	3.3%	-3.5%	1.7%	0.5%	1.3%	1.3%
Sep-17	4.6%	4.3%	-2.9%	1.7%	0.8%	1.6%	1.6%
Oct-17	4.5%	3.7%	-2.1%	2.3%	1.2%	2.0%	2.0%

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