Northern Ireland Composite Economic Index<



Quarter 3 2015

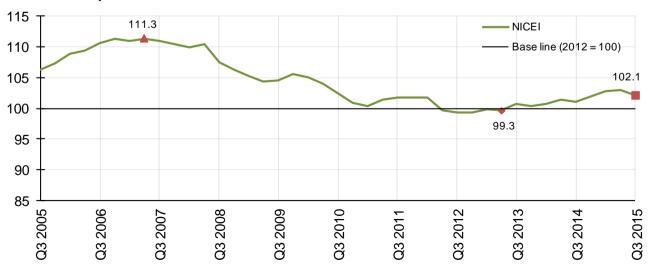
Date: 21 January 2016
Geographical Area: Northern Ireland
Theme: Economy Statistics

Frequency: Quarterly

Key points

- The Northern Ireland Composite Economic Index (NICEI) results show that NI economic activity was estimated to have decreased by 0.8% in real terms between the second and third quarter of 2015.
- This is the first quarterly decrease in the NICEI in the last four quarters. This includes a 0.3 percentage points upward revision to the quarterly change initially reported for Quarter 2 2015 (first reported in the Quarter 2 2015 publication).
- The index increased by 1.1% over the year (Quarter 3 2014 to Quarter 3 2015) in real terms.
- Over the last two years annual output, (averaged over the four quarters to Quarter 3 2015 compared to the previous four quarters) also increased by 1.6%.
- Private sector output fell by 0.8% over the quarter to Quarter 3 2015.
- The Public sector jobs index also decreased by 0.8% over the quarter, and is now at its lowest level since the series began in 2002. The index has been impacted by the Voluntary Exit Scheme (VES), currently being implemented by the Northern Ireland Civil Service, which will see an ongoing reduction in the number of public sector employees.
- The NICEI is currently 2.9% above the minimum reached in Quarter 3 2012.

Figure 1: NI Composite Economic Index



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This Report contains the following chapters:

- 1. Context
- 2. NI Composite Economic Index Quarter 3 (July to September) 2015
- 3. Contribution to change
- 4. Comparisons with measures of GDP
- 5. Economic commentary
- 6. Further information
- 7. Annex 1: Index Tables

The next publication for Quarter 4 2015 results will be in April 2016.

1 Context

The results for the NICEI for Quarter 3 2015 show that economic output in NI decreased by 0.8% over the quarter but increased by 1.1% over the year to Quarter 3 2015. This is the first decrease in the NICEI in the last four quarters. The previous estimate for Quarter 2 2015 (reported in the Quarter 2 2015 publication) has been revised upwards from a decrease of 0.1% to an increase of 0.2%. This is a result of revisions to the input datasets and rebasing to the 2012 reference year.

Despite a fall in the NICEI over the quarter there has been growth over the year. Growth over the year has also been reported by other economic indicators such as the labour and housing markets.

The most recent NI <u>Labour Market Report</u> (January 2016) shows that over the quarter and year the labour market continues to improve with a decrease in unemployment and economic inactivity alongside a growing employment rate (see below for further details on the labour market).

The most recent <u>Quarterly Employment Survey</u> also shows that the number of jobs has increased over the third quarter of 2015 and over the last year. However, whilst job growth remains positive, this was the lowest annual increase in Northern Ireland (NI) jobs since June 2013. Great Britain (GB) has also seen a slowdown in the rate of job growth since September 2014.

Coupled with the broadly positive performance of the labour market the housing market continues to show signs of growth. The most recent NI Residential Property Price Index reports that in Quarter 3 2015 property prices in NI recorded growth over the quarter and the year. This is set against a backdrop of growing numbers of new builds commencing, increased lending and falling repossessions.

The NICEI is designated as an experimental index to reflect its status as a measure under development. Users should take this into account when interpreting results. Ongoing areas of development are highlighted below:

The Public Sector sub-index of the NICEI is based on public sector jobs. This may be unduly impacted by the fact that the NI Civil Service is currently undergoing a period of strategic reorganisation in the form of a Voluntary Exit Scheme (VES) which seeks to reduce the number of such jobs. For example, a ten percent reduction in public sector jobs may not equate to an equivalent fall in public sector output. NISRA is currently investigating how to improve the measure of public sector output as part of planned improvements to the NICEI series.

Another factor to bear in mind relates to the fact that the Index of Construction component of the NICEI only covers the output of construction firms' activity in Northern Ireland. There is evidence to suggest that since the downturn many NI construction firms have been sending employees operating in GB and ROI, sending employees to work in projects based outside NI. NISRA is currently investigating the feasibility of including the value of such work in the construction index.

The NICEI is an experimental quarterly measure of the performance of the Northern Ireland (NI) economy based on available official statistics. Existing published quarterly indices (i.e. Index of Services (IOS), Index of Production (IOP), Index of Construction (IOC), and public sector employee jobs data from the Quarterly Employment Survey (QES), plus unpublished agricultural output data from DARD) are weighted using ONS Regional Accounts Gross Value Added (GVA) data to provide a proxy measure of total economic output in the NI economy on a quarterly basis.

Key results (by private and public sector indices)

NI economic activity is estimated to have

- decreased by 0.8% in real terms from Quarter 2 2015 to Quarter 3 2015;
- but increased by 1.1% over the year.

Private sector output

- also decreased by 0.8% in real terms over the quarter;
- but also recorded growth (2.0%) compared to the same quarter one year ago.

The Public sector jobs index

- fell by 0.8% over the quarter; and
- decreased by 1.8% compared to Quarter 3 2014.

On a slightly longer timeframe, the NICEI results show that annual output averaged over the four quarters to Quarter 3 2015 compared to the previous four quarters increased by 1.6% in real terms.

- Over the same period the Private sector index increased by 2.3%;
- Whilst the Public sector jobs index decreased by 0.7%.

Table 1 provides a summary of changes over the quarter, year and rolling four quarters for the NICEI and its private and public sector jobs sub-indices.

Table 1: Overview of performance of Northern Ireland Economy, Quarter 3 2015

	Index 2012=100	Change on quarter	Change on year	Rolling annual average change ¹		
NICEI	102.1	-0.8%	1.1%	1.6%		
NI Private Sector	104.0	-0.8%	2.0%	2.3%		
NI Public Sector jobs	96.5	-0.8%	-1.8%	-0.7%		

¹ Most recent 4 quarters compared to previous 4 quarters
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Contribution to change

Change over the quarter

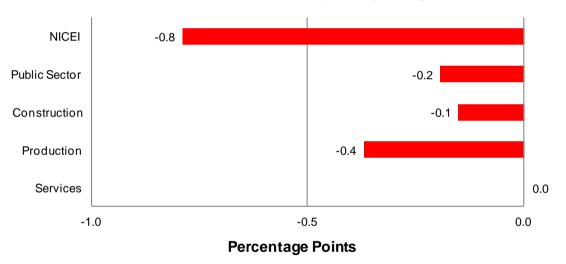
The decrease in the NICEI over the quarter (-0.8%) was driven jointly by decreases in the:

- Production sector (a contribution of -0.4 percentage points (pps));
- Public sector jobs index (a contribution of -0.2 pps); and
- the Construction sector index (a contribution of -0.1 pps).

The Services sector index did not change over the quarter.

The changes in each of these individual series can be found in Table 2 at the end of this document.

Figure 2: Contributions of component indices to quarterly change in the NICEI Q3 2015²



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Change over the year

The NICEI results for the period July-September 2015 show that over the year (Quarter 3 2014 to Quarter 3 2015):

- NI economic activity increased by 1.1%;
- the Private sector index experienced growth of 2.0%; and
- the index for the Public sector jobs decreased over the year by 1.8%.

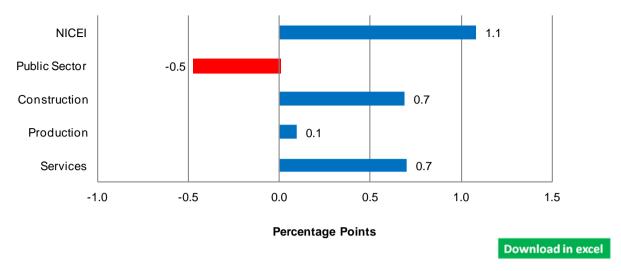
The increase in the NICEI over the year (1.1%) was driven by increases in:

- the Construction sector (a contribution of 0.7 pps);
- the Services sector (a contribution of 0.7 pps); and
- the Production sector (a contribution of 0.1 pps).

These increases were offset by a decrease in the Public sector jobs index (-0.5 pps).

Please note figures may not sum due to rounding
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Figure 3: Contributions of component indices to annual change in the NICEI Q3 2015³



Rolling annual average change

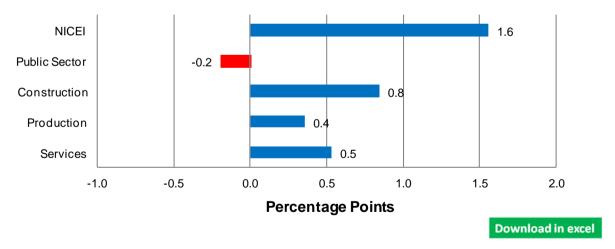
Annual output (averaged over the four quarters to Quarter 3 2015) compared to the average of the previous four quarters increased in real terms by 1.6%.

This was a combination of increases in:

- the Construction sector (contribution of 0.8 pps);
- the Services sector (contribution of 0.5 pps); and
- the Production sector (contribution of 0.4 pps).

These increases were offset by a decrease in Public sector jobs index (contribution of -0.2 pps).

Figure 4: Contributions of component indices to rolling annual average change in the NICEI, Q3 2015



³ Please note figures may not sum due to rounding
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Comparison with measures of GDP

The NICEI is not equivalent to the Office for National Statistics (ONS) quarterly measure of change in Gross Domestic Product (GDP) for the whole UK economy. This is because the ONS measure is based on a broader range of sources including output, income and expenditure estimates of economic activity, whereas the NICEI is based on output and employee jobs data. However, when applied to the equivalent UK data sources, the NICEI methodology has been shown to provide a close short term approximation to the UK GDP series (see NICEI Methodology Paper).

Although the measures are not produced on a fully equivalent basis, comparisons with the UK show that NI output decreased by 0.8% over the quarter whilst the UK GDP⁴ increased by 0.4% from Quarter 2 to Quarter 3 2015. The UK economy also grew by 2.1% over the year to Quarter 3 2015 whereas NI output increased by 1.1%.

When the extent of change is considered over the last two years, it can be seen that average GDP growth for the four quarters to Quarter 3 2015 for the UK was 2.4% compared to the previous four quarters. The NI growth rate was 1.6% over the same period.

The NICEI is currently 2.9% above the minimum reached in Q3 2012, and 8.3% below the maximum value recorded in Q4 2006. In Quarter 3 2015, UK GDP was estimated to have been 6.0% higher than its pre-economic downturn peak of Quarter 1 2008, having first exceeded this peak in Quarter 2 2013. This suggests that the UK has had a shorter downturn with a faster recovery.

The most recent results show that Scottish GDP grew marginally by 0.1% during the third quarter of 2015 and increased by 1.7% over the year compared to Quarter 3 2014. The average growth for the four quarters to Quarter 2 2015 compared to the previous four quarters was 2.5%.

Looking at the Republic of Ireland Quarterly National Accounts, the Irish economy has been growing at faster pace than the UK, reporting GDP growth of 1.4% over the quarter to Quarter 3 2015. Over the year to Quarter 3 2015 GDP increased by 6.8%, with an average annual growth of 6.8% (latest four quarters compared to the previous four quarters).

Please note that a table showing a comparison of the NI Composite Economic Index and GDP for the UK, Scotland and Republic of Ireland can be found at the <u>NICEI webpage</u>.

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⁴ ONS Quarterly National Accounts, Quarter 3 (July to Sept) 2015 (The measure of GDP referred to is the chained volume index of GDP at market prices)

Economic commentary

Results for the NICEI indicate that in real terms growth between 2012 and 2013 was essentially flat (0.1% increase), though the growth rate increased to 1.1% between 2013 and 2014, and to 1.3% between 2014 and 2015 (average over three quarters). More recently annual average output (averaged over the four quarters to Quarter 3 2015) compared to the average of the previous four quarters (to Quarter 3 2014) increased by 1.6%. However, the most recent quarterly rate of growth has seen a decrease between Quarter 2 and Quarter 3 2015.

Although the sources are not fully comparable, there is some evidence that the annual average rate of growth in the NI economy (1.6%) to Quarter 3 2015 continues to lag behind that of the UK (2.4%).

However, it is important to note that NI private sector growth in the four quarters to Quarter 3 2015 averaged 2.3% compared to the previous period, outstripping growth for the NI economy as a whole.

Apart from the public sector, annual growth between Quarter 3 2014 and Quarter 3 2015 has been reported in the Construction, Services and Production sectors, with the Construction and Services sectors making the joint largest contribution to growth over the year to September 2015.

While unemployment fell over the quarter by 0.1% (to 5.9%) in September – November 2015 the unemployment rate has remained at, or close to, the 6.0% level for much of 2015.

The most recent <u>Quarterly Employment Survey</u> also shows that the number of jobs has increased over the third quarter of 2015 and over the last year. However, whilst job growth remains positive, this was the lowest annual increase in Northern Ireland (NI) jobs since June 2013. Great Britain (GB) has also seen a slowdown in the rate of job growth since September 2014.

The NICEI and the Public and Private sector sub-indices fell by 0.8% over the quarter. While it is important not to read too much into any one quarter's result, this may also reflect slowing growth in the NI economy.

An overview of the NICEI time series alongside an economic timeline of key world, European, UK and NI events to help place the performance of the NICEI into context is provided overleaf.

events. 2005-15 115 111.3 NICEI 110 Base line (2012 = 100) 105 100 99.3 95 90 85 2015 2010 2012 2013 2005 2006 2007 2008 2009 2011 2014 8 8 8 8 g g g 8 8 2008 > 2009 > 2010 > 2011 > 2012 2013 2007 Portugal NI Claimant Count UK GDP falls NI house prices bailout and USA subprime falls for 12 to lowest level rise by 3% over Buoyant global 2nd Greek mortgage crisis consecutive the quarter to Q3 & since 2005 economy bailout agreed begins months to by 7% over the Irish GDP falls December year NI economy grows Bank of NI house prices to lowest level faster than UK England increase faster since 2005 UK GDP rises in UK GDP rises for average injects £75bn 11 quarters in a than in UK, all quarters into UK NI claimant peaking in Q3 row to Q3 Falling daimant count economy count rises 2007 NI residential & unemployment through NI Claimant Count 47% over year property prices quantitative decreased by 500 to December Overall NI begin to increase over month & by easing economic Official 11,000 over the activity peaks in year to December interest rate Ω2 reduced to 0.5% Bank of England purchase NI Executive £200bn of launches Economic financial Strategy and assets £200m Economy & (quantitative Jobs Initiative easing) between Mar Bank of England injects a further & Nov £100bn into the economy through quantitative easing, bringing the total assets purchases **UK GDP** to £375bn Irish and Greek Lehman Brothers continues to bailout agreed collapse grow UK enters recession UK spending NI Claimant review outlines cuts Count falls for UK inflation hits in public spending 24 consecutive 5.2% in September months to December

Figure 5: Overview of the performance of the NICEI alongside a timeline of key economic events 2005-15

Further information on the state of the Northern Ireland economy, setting it in context with the UK and Republic of Ireland can be found in the latest Department of Enterprise, Trade and Investment (DETI) <u>Economic Commentary</u>.

NI employee jobs peak in Q2

Further information

Coverage

Together the existing IOS, IOP and IOC indices cover their respective elements of the private sector economy. Output data currently provided by DARD is unpublished and as such we are not able to disclose this data. No appropriate output data for the Public sector is collected in Northern Ireland and as a best available proxy public sector employment from the Quarterly Employment Survey (QES) was used, as recommended by ONS.

Further information on the main input data is presented below:

IOP: The quarterly NI Index of Production is currently based on a sample of around 1,000 businesses, which covers approximately 93% of the turnover of the population at the time of selection and a response rate of almost 90%. This includes a **census of all companies employing 40 or more employees as well as those employing 0 to 39 employees and having a turnover of £10 million or more**. The new sample has been designed to have a minimum precision of 10% for each of the production subsectors.

IOS: The quarterly NI Index of Services is currently based on a sample of around 3,300 businesses out of a population of c. 37,000. The sample consists of a census of dominant companies and a Neyman stratified random sample of the remaining companies and covers approximately 72% of turnover. The **census element consists of all companies employing 100 or more employees as well as those employing 0 to 99 employees and having a turnover of £10 million or more.**

IOC: From a sampling universe of approximately 10,000 firms, a disproportionate sample of 700 construction firms is randomly selected to take part in the NI Quarterly Construction Enquiry. The sample is disproportionately stratified (into six strata) using IDBR turnover as the stratification variable. This includes a **census of all companies with a turnover of £5.25m or greater**. Further information on the IOC sample coverage and methodology can be found here.

Weighting and Combining the Data

The output series were produced as weighted aggregates of the above input series, where the weights were based on Gross Value Added (GVA)⁵ by industry obtained for Northern Ireland from Regional Accounts produced by ONS.

Please note that the latest available GVA by industry published in December 2015 refers to the year 2014.

Annual Chain-Linking

Annual chain-linking was used to combine the private Services, Production, Construction and Agriculture sectors to produce an index for the Private sector, which was then combined with the index for the Public sector to give an overall index for the economy. Use of annual chain-linking is standard National Accounts practice.

The industry shares published by ONS in December 2015 relating to 2014 GVA were used to update the NICEI weights in this publication; as such the impact of changes of each sector on the

overall index will be different compared to those previously reported. The change in the share of GVA based on 2014 and 2015 regional accounts figures is presented below.

Please note that the 2015 regional accounts publication provided industry level data up to 2014, whereas previously industry level data was only available up to two years after the reference period i.e. the 2014 regional accounts only had industry level data up to 2012. Therefore the graph below shows the difference between the shares based on 2014 and 2012 GVA values. The 2014 values are based on the most recent GVA figures published by ONS (December 2015) whilst the 2012 figures are based on the data published in December 2014 (the most up to date weights at that time and those which were used as weights prior to new data becoming available in December 2015).

Share of Regional Accounts Total GVA 100% 24.4% 26.3% 80% 1.2% 1.2% 60% 18.3% 15.3% 40% 51.3% 50.8% 20% 0% 2014 2012 ■Services ■ Production ■ Construction ■ Agriculture ■ Public

Figure 6: Share of Regional Accounts Total GVA

The main change is that the share of the Production sector has increased (+2.9 pps) with the Public sector share decreasing by 1.9 pps and the Services and Construction sectors also decreasing (-0.5 pps and -0.2 pps respectively).

Seasonal Adjustment of the Indices

The indirect method of seasonal adjustment was employed. Seasonally adjusted figures were input (where possible) and when the combined output series were tested for seasonality there was no residual seasonality found, therefore no seasonal adjustment was required.

Base and reference year

As part of the Blue Book process (UK National Accounts), and in line with Eurostat guidance, the base year and reference year for chained volume estimates are moved forward by one year so that the estimates better reflect the industrial structures and prices currently seen within the economy. Re-referencing on its own does not cause revisions to real growth rates, but the rebasing process, taking on as it does new Gross Value Added and product weights from the supply and use balancing process, will cause revisions to the growth rates of chained volume components.

Public Sector Employees

The public sector employee jobs figures used in our analysis are sourced from the Office for National Statistics who compile the figures to produce their Public Sector Employment Employment Descriptions. The public sector comprises central government, local government and public corporations as defined for the UK National Accounts. The public sector comprises central government, local government and public corporations as defined for the UK National Accounts.

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Users' comments and feedback are welcomed and can be provided in writing to:

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Annex 1: Index Tables

The table below provides an overview of the index tables for the Composite Economic Index and its constituent indices. The arrows in the cells indicate whether the index has increased/decreased/remained constant from the previous quarter.

Key: Maximum value reached Minimum value reached

Table 2: Overview of NICEI and component indices

Table 2: O	verview	of NICEI and component indices								Download in excel				
	Quarter	Composite Economic		Private Public sector sector		Public sector	Services		Production		Construction			
2005	1		105.4		106.7		102.3		105.7		97.8		149.1	
2003	2	1	106.2	企	100.7	1	102.8	1	106.6	1	98.0	1	153.2	
	3	1	106.2	Ŷ	107.5	1	103.3	1	106.7	î	95.9	1	157.5	
	4	1	100.3	1	107.5	1	103.4	1	100.7	⇒	95.9	Ť	149.0	
2006	1	<u>.</u>	107.3	•	111.2	Î	103.4	1	111.0	1	98.8	1	159.0	
2000	2	•	109.4	•	111.9	⇒	103.2	4	111.4	1	100.5	4	159.6	
	3	4	110.7	4	113.6	1	103.4	4	112.9	1	100.8	4	168.1	
	4	1	111.3	•	114.6	Ŷ	103.2	1	114.3	1	101.1	Ŷ	167.5	
2007	1	Ŷ	110.9	Ŷ	114.0	Ŷ	103.0	Ŷ	113.7	⇒	101.1	Ŷ	163.6	
2007	2	1	111.3	û	114.5	1	103.2	⇒	113.7	1	101.9	1	169.2	
	3	Ŷ	111.0	Ŷ	114.3	Ŷ	102.6	Ŷ	113.2	Û	105.2	Ŷ	161.6	
	4	Ť	110.4	Ť	113.4	Ŷ	102.8	Ť	111.9	1	106.8	Ť	154.8	
2008	1	Ť	110.0	Ť	112.8	⇒	102.8	Ď	111.9	Ŷ	105.8	Ť	148.9	
	2	1	110.4	û	113.6	Ŷ	102.1	1	112.3	1	106.5	1	155.5	
	3	Ŷ	107.4	Ŷ	109.9	Ŷ	101.1	Ŷ	109.2	î	103.9	Ŷ	143.6	
	4	Ŷ	106.3	Ŷ	106.9	1	104.8	Ŷ	106.7	Ŷ	98.3	Ŷ	141.1	
2009	1	Ŷ	105.2	Ŷ	105.3	1	105.0	Ŷ	105.7	Ŷ	94.6	Ŷ	138.7	
	2	Ŷ	104.3	Ŷ	104.0	1	105.2	Ŷ	105.0	Ŷ	92.0	Ŷ	136.6	
	3	1	104.5	Ŷ	104.1	1	105.5	1	105.8	Î	90.9	Ŷ	135.7	
	4	1	105.6	1	105.7	Ŷ	105.2	1	108.0	1	91.9	Ŷ	133.1	
2010	1	Ŷ	105.1	Ŷ	105.3	Î	104.5	Ŷ	107.7	1	93.0	Ŷ	125.5	
	2	Ŷ	104.0	Ŷ	104.2	Î	103.7	Ŷ	106.2	1	93.8	Ŷ	121.2	
	3	Ŷ	102.5	Ŷ	102.4	Î	102.8	Ŷ	103.1	1	95.0	1	121.8	
	4	Ŷ	101.0	Ŷ	100.4	Î	102.6	Ŷ	100.0	1	97.3	Ŷ	113.9	
2011	1	Ŷ	100.4	Ŷ	99.8	Ŷ	102.0	Û	99.0	1	98.7	Ŷ	109.6	
	2	1	101.4	1	101.4	Ŷ	101.4	1	101.8	1	100.4	Ŷ	101.4	
	3	1	101.7	û	102.0	①	100.7	1	101.9	1	102.7	1	103.5	
	4	⇑	101.8	⇧	102.5	û	100.0	1	102.1	1	103.5	1	104.2	
2012	1	\Rightarrow	101.8	①	102.3	1	100.2	①	101.3	₽	102.0	1	111.3	
	2	①	99.7	①	99.6	Ŷ	99.9	①	99.5	₽	100.8	Ŷ	97.9	
	3	①	99.3	1	99.0	1	99.8	1	99.6	₽	99.0	①	95.1	
	4	\Rightarrow	99.3	\Rightarrow	99.0	1	100.1	\Rightarrow	99.6	₽	98.2	1	95.8	
2013	1	⇑	99.8	⇑	99.6	1	100.3	1	99.9	1	99.5	1	96.3	
	2	①	99.6	①	99.4	1	100.4	1	100.1	1	99.6	①	90.9	
	3	⇧	100.8	⇧	100.9	1	100.5	1	101.2	1	102.7	⇑	92.9	
	4	û	100.4	⇧	101.1	î	98.5	1	101.6	1	103.9	①	86.8	
2014	1	⇑	100.7	⇑	101.6	1	97.9	1	101.8	û	103.7	1	91.2	
	2	⇧	101.4	⇧	102.5	1	98.2	1	102.4	1	105.7	1	91.7	
	3	1	101.0	Ŷ	102.0	1	98.4	û	102.0	1	104.8	1	93.0	
	4	⇧	101.9	⇧	103.2	Ŷ	98.3	1	102.7	1	106.0	1	97.9	
2015	1	⇑	102.7	⇑	104.4	Ŷ	97.9	û	102.6	1	108.2	1	107.4	
	2	⇑	102.9	⇧	104.9	Ŷ	97.3	1	103.4	û	107.7	⇑	109.0	
	3	û	102.1	û	104.0	①	96.5	\Rightarrow	103.4	û	105.4	û	106.1	
			NICEI	Р	rivate Sector	F	ublic Secto	r	Serviœs		Production	(Construction	
% change previous qua	rter		-0.8%		-0.8%		-0.8%		0.0%		-2.1%		-2.7%	
same quart ago			1.1%		2.0%		-1.8%		1.4%		0.6%		14.1%	
	r most recent compared to quarters		1.6%		2.3%		-0.7%		1.1%		2.2%		15.9%	