

Statistical bulletin

Index of Private Housing Rental Prices, UK: February 2019

An experimental price index tracking the prices paid for renting property from private landlords in the United Kingdom.

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1 . Main points

- Private rental prices paid by tenants in the UK rose by 1.1% in the 12 months to February 2019, up from 1.0% in January 2019.
- In England and Wales, private rental prices grew by 1.1%, while in Scotland private rental prices increased by 0.7% in the 12 months to February 2019.
- London private rental prices rose by 0.2% in the 12 months to February 2019, up from 0.1% in January 2019.

2 . Things you need to know about this release

The Index of Private Housing Rental Prices (IPHRP) measures the change in the price tenants face when renting residential property from private landlords, thereby allowing a comparison between the prices tenants are charged in the current month as opposed to the same month in the previous year. The index does not only measure the change in newly advertised rental prices, but reflects price changes for all private rental properties.

The IPHRP is constructed using administrative data. That is, the index makes use of data that are already collected for other purposes to estimate rental prices. The sources of private rental prices are [Valuation Office Agency](#) (VOA), [Scottish Government](#) (SG), [Welsh Government](#) (WG) and [Northern Ireland Housing Executive](#) (NIHE). All these organisations deploy rental officers to collect the price paid for privately rented properties. Data for Northern Ireland also include data provided by [propertynews.com](#). Annually, over 450,000 private rents prices are collected in England, 30,000 in Wales, 25,000 in Scotland and 15,000 in Northern Ireland. The sources of [expenditure weights](#) are the [Ministry of Housing, Communities and Local Government](#) (MHCLG), Scottish Government, Welsh Government, Northern Ireland Housing Executive and the VOA.

IPHRP is released as an [Experimental Statistic](#). While the [methodology](#) for IPHRP is final, Northern Ireland data were previously excluded from the price index. We have since worked with the [Northern Ireland Housing Executive](#) to secure private rental data for Northern Ireland with results first published in our August 2018 release on 19 September 2018. We have also used these data to improve the coverage of IPHRP to that of the UK, which was published for the first time in our September 2018 release on 17 October 2018.

The IPHRP is [scheduled](#) to be assessed against the [Code of Practice for Statistics](#) in early 2019 with the aim of achieving [National Statistics](#) status for the release.

3 . UK private rental prices growth rate strengthens

Private rental prices paid by tenants in the UK increased by 1.1% in the 12 months to February 2019, up from 1.0% in January 2019. For example, a property that was rented for £500 per month in February 2018, which saw its rent increase by the average rate in the UK, would be rented for £505.50 in February 2019. Growth in private rental prices paid by tenants in the UK has generally slowed since the beginning of 2016, driven mainly by a slowdown in London over the same period.

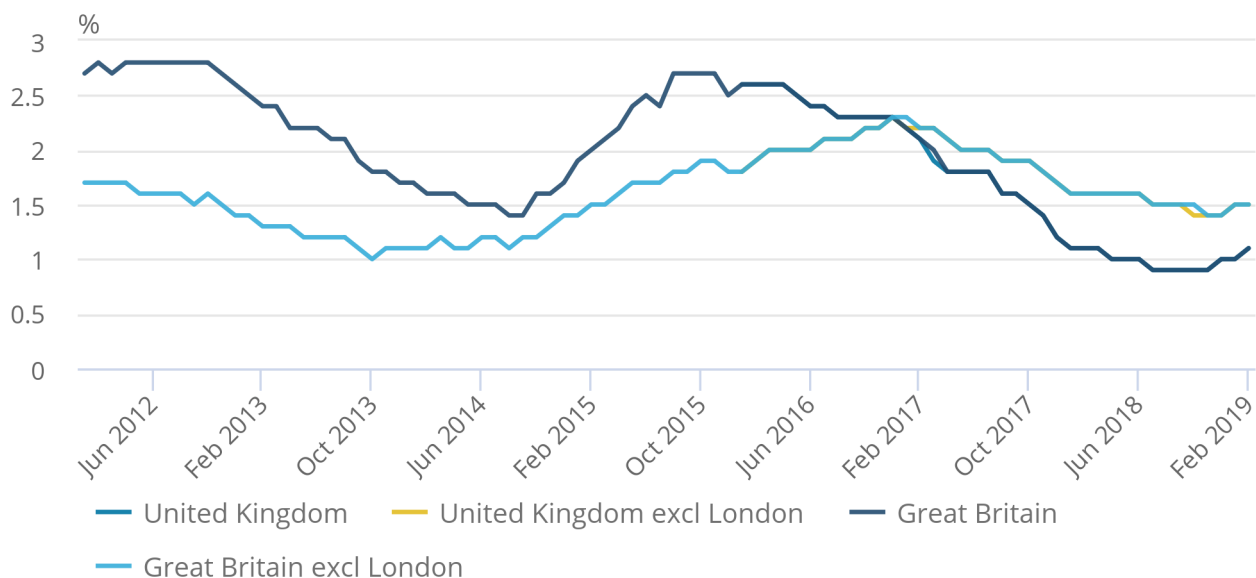
Rental prices for the UK excluding London increased by 1.5% in the 12 months to February 2019, unchanged from January 2019 (Figure 1). London private rental prices increased by 0.2% in the 12 months to February 2019; up from 0.1% in January 2019.

Figure 1: Broad slowdown in UK annual growth rate since early 2016

Index of Private Housing Rental Prices percentage change over 12 months, UK and Great Britain, January 2012 to February 2019

Figure 1: Broad slowdown in UK annual growth rate since early 2016

Index of Private Housing Rental Prices percentage change over 12 months, UK and Great Britain, January 2012 to February 2019



Source: Office for National Statistics - Index of Private Housing Rental Prices

Notes:

1. Data presented in this dataset are classified as Experimental Statistics and subject to revisions if improvements in the methodology are identified. Results should be interpreted with this in mind.

The [Royal Institution of Chartered Surveyors' \(RICS's\) February 2019 Residential Market Survey](#) reported tenant demand rose modestly in the month to February (non-seasonally adjusted series). New landlord instructions continue to dwindle, remaining in negative territory for the 29th successive month.

The [Association of Residential Letting Agents \(ARLA\)](#) reported in their [Private Rented Sector Report for January 2019](#) that the number of tenants experiencing rent hikes rose for the first time since September 2018. Supply of rental properties and demand from prospective renters both increased.

These supply and demand pressures can take time to feed through to the Index of Private Housing Rental Prices (IPHRP), which reflects price changes for all private rental properties, rather than only newly advertised rental properties.

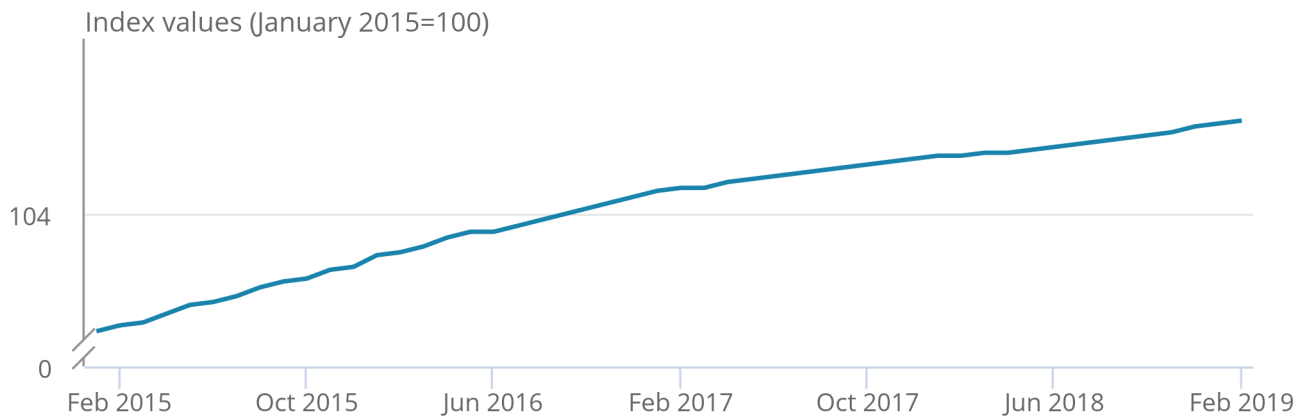
Focusing on the long-term trend, between January 2015 and February 2019, private rental prices in the UK increased by 7.2% (Figure 2).

Figure 2: UK rental prices have increased 7% since January 2015

Index of Private Housing Rental Prices indices, UK, January 2015 to February 2019

Figure 2: UK rental prices have increased 7% since January 2015

Index of Private Housing Rental Prices indices, UK, January 2015 to February 2019



Source: Office for National Statistics - Index of Private Housing Rental Prices

4 . How do growth rates compare at the country level?

Private rental prices in Wales grew by 1.1% in the 12 months to February 2019, up from an increase of 0.9% in January 2019. Wales' annual rental growth rate has been strengthening since October 2018.

Rental growth in Scotland increased by 0.7% in the 12 months to February 2019, unchanged from January 2019. The weaker growth since 2016 may be due to stronger supply and weaker demand in Scotland, as reported by the [Association of Residential Letting Agents](#) (ARLA).

In England, private rental prices grew by 1.1% in the 12 months to February 2019, unchanged since December 2018. When London is excluded from England, privately rented properties increased by 1.6% in the 12 months to February 2019.

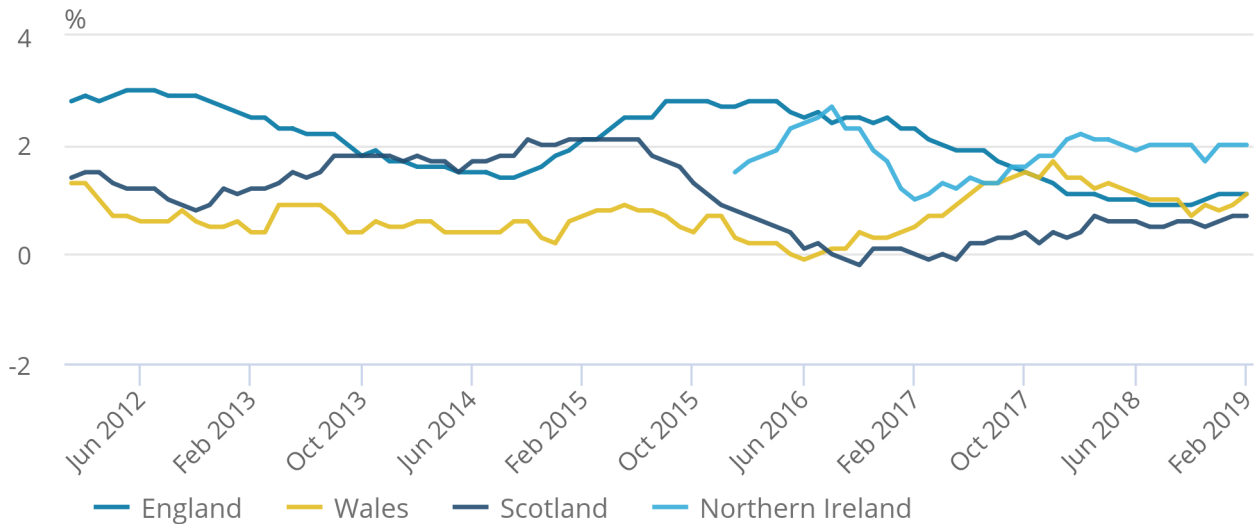
The annual rate of change for Northern Ireland (2.0%) in December 2019 is higher than the other countries of the UK. The Northern Ireland annual growth rate remained broadly consistent around 2% throughout 2018. Northern Ireland data have been copied forward since December 2018. The next update to Northern Ireland data will be in the release on 19 June 2019.

Figure 3: Annual rental growth in Scotland slower than other countries of the UK

Index of Private Housing Rental Prices percentage change over 12 months for countries of the UK, January 2012 to February 2019

Figure 3: Annual rental growth in Scotland slower than other countries of the UK

Index of Private Housing Rental Prices percentage change over 12 months for countries of the UK, January 2012 to February 2019



Source: Office for National Statistics - Index of Private Housing Rental Prices

Notes:

1. Data presented in this dataset are classified as Experimental Statistics and subject to revisions if improvements in the methodology are identified. Results should be interpreted with this in mind.
2. Northern Ireland data are only available every three months. Northern Ireland data are copied forward until the next data are available, which will be in the June 2019 release.

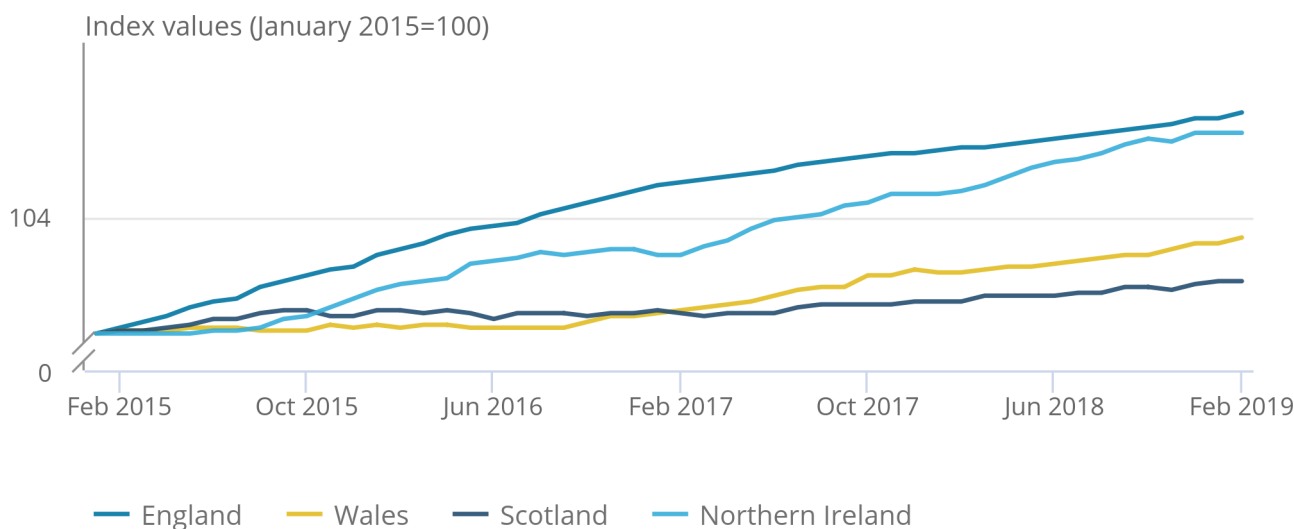
All UK countries have experienced rises in their private rental prices since 2015 (Figure 4). Since January 2015, rental prices in England have increased more than those in Wales, Scotland and Northern Ireland.

Figure 4: Rental prices have increased more in England than rest of the UK

Index of Private Housing Rental Prices indices for countries of the UK, January 2015 to February 2019

Figure 4: Rental prices have increased more in England than rest of the UK

Index of Private Housing Rental Prices indices for countries of the UK, January 2015 to February 2019



Source: Office for National Statistics - Index of Private Housing Rental Prices

Notes:

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2. Northern Ireland data are only available every three months. Northern Ireland data are copied forward until the next data are available, which will be in the June 2019 release.

5. What's happening in the English regions?

London private rental prices increased by 0.2% in the 12 months to February 2019, up from 0.1% in the 12 months to January 2019. The Royal Institution of Chartered Surveyors (RICS) reported in their [September 2018 Residential Market Survey](#) that tenant demand has staged a sustained recovery in London over recent months, increasingly outstripping supply. However, they note that rents are still anticipated to see little change in the near-term.

Focusing on the English regions, the largest annual rental price increase was in the East Midlands (2.4%), unchanged from January 2019 (Figure 5). This was followed by Yorkshire and The Humber (1.8%), down from 1.9% in January 2019, and the West Midlands (1.8%), unchanged from January 2019.

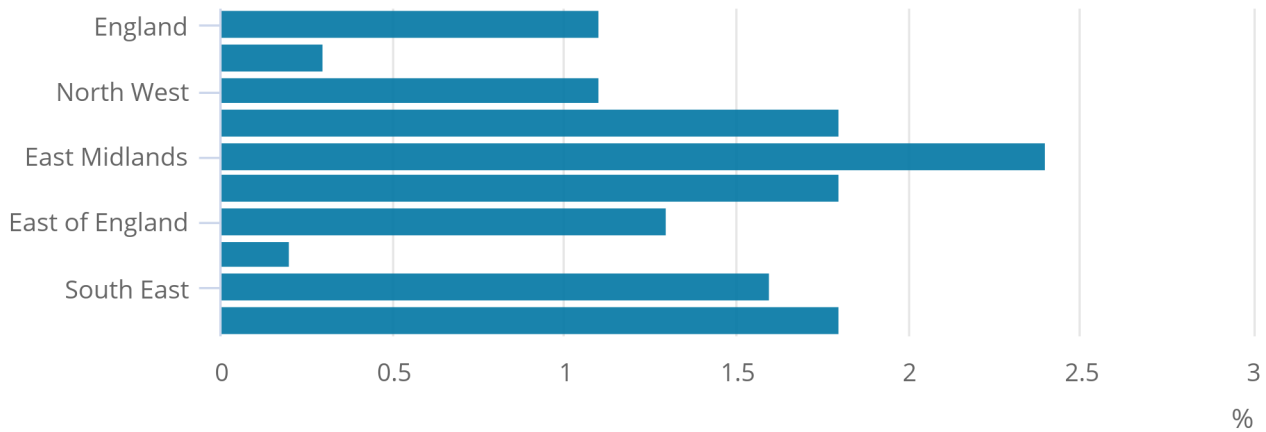
The lowest annual rental price growth was in London where prices increased by 0.2%, up from 0.1% in January 2019. It was followed by the North East, which increased by 0.3%, down from 0.4% in January 2019.

Figure 5: Strongest annual rental price growth in East Midlands

Index of Private Housing Rental Prices percentage change over the 12 months to February 2019, by English region

Figure 5: Strongest annual rental price growth in East Midlands

Index of Private Housing Rental Prices percentage change over the 12 months to February 2019, by English region



Source: Office for National Statistics - Index of Private Housing Rental Prices

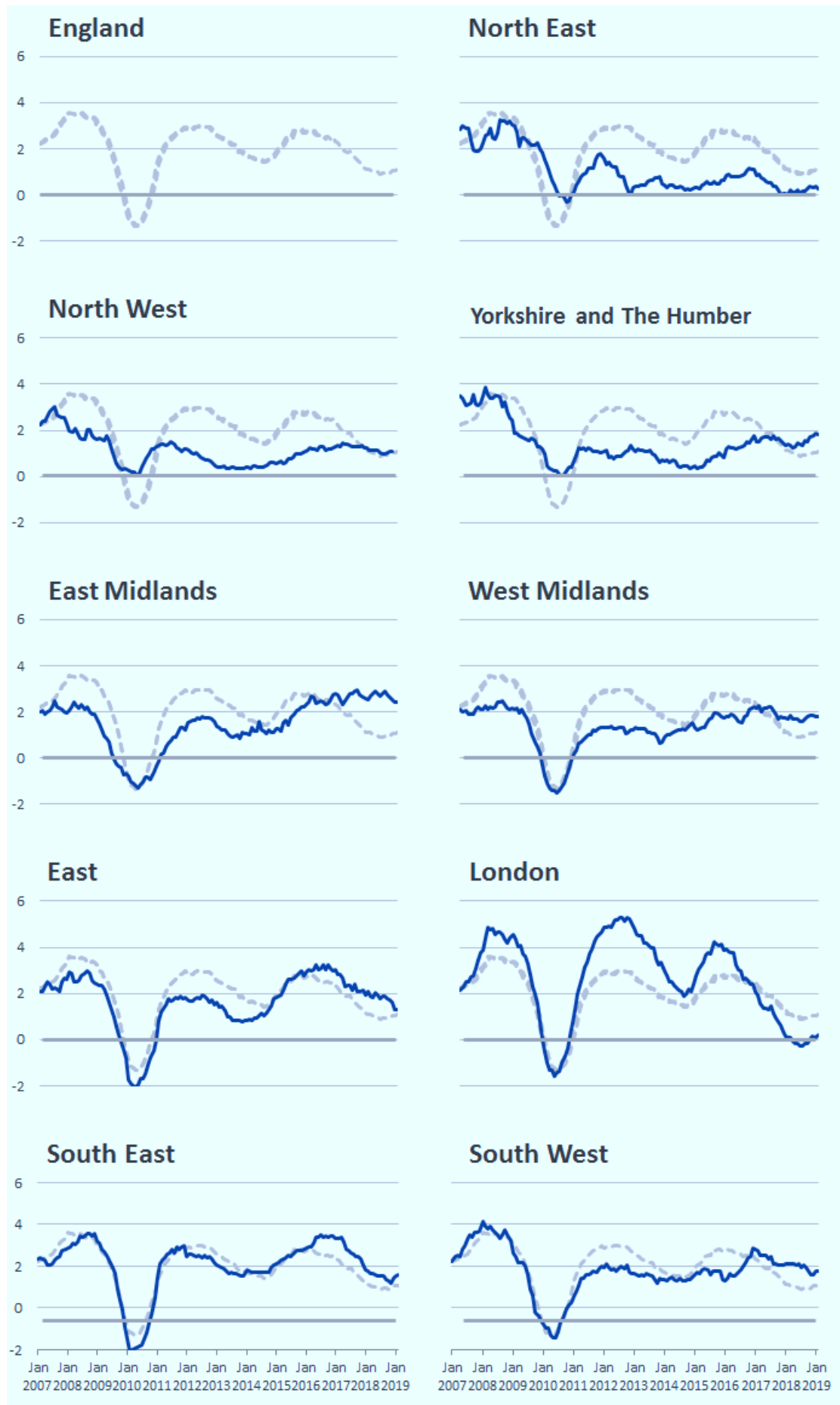
Notes:

1. Data presented in this dataset are classified as Experimental Statistics and subject to revisions if improvements in the methodology are identified. Results should be interpreted with this in mind.

Figure 6 shows the historical 12-month percentage growth rate in the rental prices of each of the English regions.

Figure 6: Index of Private Housing Rental Prices percentage change over 12 months, by English region, January 2007 to February 2019

12-month percentage change



Notes:

1. The grey line shows the average England 12-month percentage change.

6 . What's changed in this release?

Property type weights for Northern Ireland have been revised as part of this release. This has led to revisions to the full Northern Ireland back series. This does not impact any other country or region of Great Britain. The impact on the UK annual growth rate is less than 0.05 percentage points in any month.

[Aggregate weights](#) information used for the Index of Private Housing Rental Prices has been updated for 2019 and are published alongside this release.

7 . Links to related statistics

There are many other statistics available for rental and housing prices.

[Valuation Office Agency](#) (VOA) publishes [private rental market statistics](#). These cover the average prices paid for renting private housing in England to the level of region and local authority. The composition of the sample used for this publication varies over time and therefore makes it hard to produce reliable comparisons over different time periods. For an evaluation of our rental price indices and the growth in average private rental prices published by VOA, please see the article [Explaining private rental growth \(PDF, 446KB\)](#).

[Ministry of Housing, Communities and Local Government](#) (MHCLG) publishes [social rent statistics](#). These cover average prices paid for renting both local authority and private registered provider (housing association) properties in England. These are collected from the continuous recordings of lettings and sales in social housing (CORE) and are available at regional and local authority level.

[Scottish Government](#) publishes [social rent statistics for Scotland](#). These cover the average weekly rents paid for local authority and registered social landlords and are available at area level. [Private Sector Rent Statistics](#) are also published annually, which cover the average price paid for renting private housing in Scotland.

[Welsh Government](#) publishes [social rent statistics for Wales](#). These cover the average weekly rents paid for local authority and registered social landlords and are available at area level. [Private sector rents](#) are also published on an annual basis, which cover the average price paid for renting private housing in Wales.

[Northern Ireland Housing Executive](#) with [Ulster University](#) publishes a bi-annual summary Research Report on the [Performance of the rental market in Northern Ireland](#). This report analyses trends in the private rental sector at district council level during a six-month period.

In addition to government sources, a number of private companies such as [Countrywide](#), [Homelet](#) and [LSL Property Services](#) produce statistics on the private rental market. These are predominantly flow measures of private rents, whereas the Index of Private Housing Rental Prices (IPHRP) is a stock measure. More information on how these compare with IPHRP can be found in the article [Private rental growth measure, a UK comparison](#).

A detailed [guide \(XLS, 43KB\)](#) to wider [housing and planning statistics](#) has also been published by the Government Statistical Service.

8 . Quality and methodology

The [Index of Private Housing Rental Prices Quality and Methodology Information report](#) contains important information on:

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

[Private rental growth measures, a UK comparison](#), compares the growth in the Index of Private Housing Rental Prices to other measures of private rental growth.

[Quality assurance of administrative data](#) used in private rental housing statistics documents the administrative data sources used in the production of the Index of Private Housing Rental Prices and the quality assurance processes applied to them.

1 Experimental Index of Private Housing Rental Prices - Index levels

Not seasonally adjusted
Index level (January 2015 = 100)

		Countries					Regions										UK excluding London ³	GB excluding London	England excluding London
		K02000001	K03000001	E92000001	W92000004	S92000003	N92000002	E12000001	E12000002	E12000003	E12000004	E12000005	E12000006	E12000007	E12000008	E12000009			
		United Kingdom ¹	Great Britain	England	Wales	Scotland	Northern Ireland ²	North East	North West	Yorkshire and The Humber	East Midlands	West Midlands	East	London	South East	South West			
2011	Jan	-	91.7	91.4	97.0	93.9	-	97.6	97.3	97.0	95.0	95.3	94.2	86.3	92.0	93.7		94.5	94.5
	Feb	-	91.8	91.6	97.1	93.8	-	97.7	97.3	97.0	95.0	95.3	94.5	86.6	92.1	93.7		94.6	94.6
	Mar	-	92.0	91.7	97.4	93.9	-	97.8	97.4	97.1	95.0	95.4	94.6	86.8	92.3	93.9		94.7	94.7
	Apr	-	92.2	91.9	97.4	94.1	-	97.8	97.6	97.0	95.2	95.5	94.7	87.1	92.6	94.0		94.9	94.8
	May	-	92.4	92.1	97.4	94.3	-	98.0	97.7	97.2	95.2	95.5	94.8	87.4	92.8	94.1		95.0	95.0
	Jun	-	92.5	92.3	97.5	94.3	-	98.0	97.8	97.2	95.3	95.6	94.9	87.7	92.9	94.3		95.1	95.1
	Jul	-	92.7	92.5	97.7	94.5	-	98.1	97.8	97.2	95.4	95.8	95.0	88.0	93.1	94.4		95.2	95.2
	Aug	-	92.9	92.7	97.8	94.6	-	98.5	97.9	97.3	95.5	95.9	95.2	88.4	93.2	94.5		95.4	95.3
	Sep	-	93.2	93.0	97.8	94.8	-	98.7	98.1	97.4	95.6	96.1	95.3	88.8	93.4	94.9		95.6	95.5
	Oct	-	93.4	93.2	98.1	95.0	-	99.0	98.2	97.5	95.8	96.2	95.5	89.1	93.6	95.0		95.7	95.6
	Nov	-	93.6	93.4	98.2	95.0	-	98.9	98.3	97.6	95.9	96.3	95.5	89.5	93.8	95.3		95.8	95.8
	Dec	-	93.9	93.8	98.3	95.0	-	98.9	98.3	97.8	96.1	96.4	95.8	90.0	94.1	95.4		96.0	96.0
2012	Jan	-	94.2	94.0	98.3	95.2	-	99.0	98.4	97.8	96.4	96.6	95.9	90.5	94.2	95.6		96.1	96.1
	Feb	-	94.4	94.2	98.4	95.2	-	98.9	98.5	97.8	96.5	96.6	96.1	90.8	94.5	95.7		96.3	96.3
	Mar	-	94.5	94.3	98.4	95.3	-	98.9	98.6	97.9	96.5	96.6	96.2	91.0	94.7	95.7		96.3	96.3
	Apr	-	94.8	94.6	98.0	95.3	-	99.0	98.7	97.9	96.7	96.7	96.4	91.6	94.9	95.7		96.4	96.5
	May	-	95.0	94.8	98.1	95.4	-	98.8	98.7	98.0	96.9	96.8	96.6	91.9	95.1	95.9		96.6	96.6
	Jun	-	95.1	95.0	98.1	95.5	-	98.8	98.7	98.0	96.9	96.9	96.6	92.3	95.2	96.0		96.6	96.7
	Jul	-	95.3	95.2	98.2	95.6	-	98.9	98.8	98.2	97.1	97.0	96.8	92.6	95.3	96.2		96.8	96.8
	Aug	-	95.5	95.4	98.4	95.5	-	98.9	98.9	98.3	97.2	96.9	96.9	92.9	95.5	96.4		96.9	96.9
	Sep	-	95.8	95.7	98.6	95.7	-	98.9	98.9	98.5	97.3	97.2	97.0	93.5	95.7	96.7		97.0	97.1
	Oct	-	96.0	95.9	98.6	95.8	-	99.0	99.0	98.8	97.5	97.4	97.0	93.8	95.9	96.9		97.2	97.3
	Nov	-	96.1	96.1	98.7	95.9	-	99.2	99.0	98.7	97.5	97.5	97.1	94.0	96.0	96.9		97.3	97.3
	Dec	-	96.3	96.3	98.7	96.1	-	99.3	99.1	98.8	97.6	97.7	97.2	94.4	96.2	97.0		97.4	97.5
2013	Jan	-	96.5	96.4	98.9	96.3	-	99.4	99.1	99.0	97.8	97.8	97.4	94.7	96.2	97.1		97.5	97.6
	Feb	-	96.6	96.6	98.8	96.4	-	99.4	99.1	99.0	97.8	97.9	97.4	94.9	96.4	97.2		97.6	97.6
	Mar	-	96.7	96.7	98.8	96.4	-	99.3	99.0	99.0	97.7	97.9	97.6	95.1	96.5	97.2		97.6	97.7
	Apr	-	96.9	96.8	98.9	96.5	-	99.4	99.1	99.0	97.9	97.9	97.6	95.4	96.6	97.2		97.7	97.7
	May	-	97.1	97.0	98.9	96.8	-	99.4	99.1	99.1	97.9	97.9	97.5	95.8	96.7	97.4		97.8	97.8
	Jun	-	97.2	97.2	99.0	96.8	-	99.4	99.1	99.2	97.8	98.0	97.6	96.0	96.8	97.5		97.8	97.9
	Jul	-	97.3	97.3	99.1	97.0	-	99.6	99.2	99.1	98.0	98.0	97.6	96.3	97.0	97.7		97.9	97.9
	Aug	-	97.5	97.5	99.1	97.2	-	99.6	99.2	99.3	98.1	98.0	97.8	96.7	97.1	97.9		98.0	98.1
	Sep	-	97.6	97.6	99.0	97.4	-	99.7	99.3	99.3	98.3	98.0	97.8	96.8	97.2	97.9		98.1	98.1
	Oct	-	97.7	97.7	99.0	97.5	-	99.7	99.3	99.4	98.3	98.0	97.8	96.9	97.4	98.1		98.2	98.2
	Nov	-	97.9	97.9	99.3	97.6	-	99.7	99.4	99.4	98.6	98.2	97.9	97.2	97.5	98.3		98.3	98.3
	Dec	-	98.0	98.0	99.3	97.8	-	99.7	99.4	99.5	98.7	98.5	98.0	97.2	97.7	98.3		98.4	98.5
2014	Jan	-	98.1	98.1	99.4	97.9	-	99.7	99.4	99.6	98.8	98.8	98.2	97.3	97.9	98.4		98.6	98.6
	Feb	-	98.2	98.1	99.4	98.1	-	99.8	99.4	99.6	98.8	98.8	98.3	97.3	98.1	98.4		98.7	98.7
	Mar	-	98.3	98.3	99.3	98.1	-	99.7	99.4	99.7	99.0	98.9	98.4	97.5	98.1	98.5		98.7	98.8
	Apr	-	98.4	98.4	99.3	98.2	-	99.7	99.5	99.6	99.0	99.0	98.5	97.7	98.3	98.7		98.8	98.8
	May	-	98.5	98.5	99.3	98.2	-	99.7	99.5	99.5	99.1	99.1	98.4	98.0	98.4	98.7		98.8	98.9
	Jun	-	98.6	98.6	99.4	98.4	-	99.8	99.6	99.5	99.4	99.1	98.6	98.1	98.4	98.8		98.9	99.0
	Jul	-	98.8	98.8	99.5	98.7	-	99.9	99.6	99.6	99.2	99.3	98.7	98.3	98.6	99.0		99.1	99.1
	Aug	-	98.9	98.9	99.5	99.0	-	99.9	99.6	99.7	99.3	99.2	98.8	98.5	98.7	99.2		99.2	99.2
	Sep	-	99.0	99.0	99.6	99.2	-	99.9	99.7	99.8	99.3	99.3	98.9	98.7	98.9	99.2		99.3	99.2
	Oct	-	99.2	99.2	99.7	99.5	-	100.0	99.7	99.7	99.5	99.4	99.0	99.0	99.0	99.4		99.4	99.4
	Nov	-	99.4	99.4	99.5	99.6	-	99.9	99.8	99.8	99.7	99.7	99.3	99.2	99.4	99.6		99.6	99.6
	Dec	-	99.7	99.7	99.5	99.8	-	100.0	99.9	100.0	99.8	99.8	99.7	99.5	99.7	99.8		99.8	99.8
2015	Jan	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
	Feb	100.2	100.2	100.2	100.1	100.1	100.0	100.0	100.0	100.0	100.1	100.1	100.1	100.3	100.2	100.1	100.1	100.1	100.1
	Mar	100.3	100.3	100.4	100.1	100.1	100.0	100.1	100.0	100.0	100.1	100.2	100.3	100.6	100.3	100.2	100.2	100.2	100.2
	Apr	100.6	100.6	100.6	100.1	100.2	100.0	100.2	100.1	100.1	100.5	100.4	100.6	100.9	100.6	100.4	100.4	100.4	100.4
	May	100.9	100.9	100.9	100.2	100.3	100.0	100.3	100.1	100.2	100.7	100.6	100.8	101.5	100.7	100.5	100.5	100.5	100.5
	Jun	101.0	101.1	101.1	100.2	100.5	100.1	100.3	100.1	100.2	100.8	100.8	101.2	101.8	100.9	100.6	100.6	100.7	100.7
	Jul	101.2	101.2	101.2	100.2	100.5	100.1	100.3	100.2	100.4	101.0	101.0	101.3	102.0	101.0	100.6	100.7	100.7	100.8
	Aug	101.5	101.6	101.6	100.1	100.7	100.2	100.4	100.4	100.6	101.1	101.1	101.4	102.7	101.3	100.9	100.9	101.0	101.0
	Sep	101.7	101.7	101.8	100.1	100.8	100.5	100.4	100.4	100.6	101.4	101.2	101.6	102.8	101.6	101.0	101.1	101.1	101.2
	Oct	101.8	101.9	102.0	100.1	100.8	100.6	100.4	100.6	100.7	101.6	101.3	101.9	103.0	101.8	101.1	101.2	101.2	101.3
	Nov	102.1	102.1	102.2	100.3	100.6	100.9	100.6	100.8	100.8	101.9	101.4	102.3	103.3	102.1	101.3	101.4	101.4	101.6
	Dec	102.2	102.2	102.3	100.2	100.6	101.2	100.6	100.9	100.8	102.0	101.6	102.5	103.4	102.5	101.1	101.6	101.6	101.7
2016	Jan	102.6	102.6	102.7	100.3	100.8	101.5	100.9	101.0	101.2	102.3	101.8	102.9	103.9	102.9	101.3	101.8	101.8	102.0
	Feb	102.7	102.8	102.9	100.2	100.8	101.7	100.9	101.0	101.3	102.5	101.9	103.2	104.1	103.1	101.5	102.0	102.0	102.2
	Mar	102.9	102.9	103.1	100.3	100.7	101.8	100.9	101.1	101.3	102.8	102.1	103.3	104.4	103.3	101.8	102.1	102.1	102.4
	Apr	103.2	103.2	103.4	100.3	100.8	101.9	101.0	101.2	101.4	103.2	102.2	103.6	104.7	103.7	101.9	102.3	102.4	102.6
	May	103.4	103.4	103.6	100.2	100.7	102.4	101.1	101.3	101.4	103.1	102.3	104.1	104.8	104.1	102.1	102.6	102.6	102.8
	Jun	103.4	103.4	103.7	100.2	100.5	102.5	101.1	101.3	101.5	103.3	102.4	104.2	104.8	104.3	102.3	102.7	102.9	102.9
	Jul	103.6	103.6	103.8	100.2	100.7	102.6	101.2	101.4	101.7	103.4	102.5	104.4	105.0	104.5	102.4	102.8	102.8	103.1
	Aug	103.8	103.9	104.1	100.2	100.7	102.8	101.3	101.5	102.0	103.8	102.9	104.7						

2 Experimental Index of Private Housing Rental Prices - 12 month price change

Not seasonally adjusted

	Countries						Regions										UK excluding London ¹	GB excluding London	England excluding London
	K02000001	K03000001	E92000001	W92000004	S92000003	N92000002	E12000001	E12000002	E12000003	E12000004	E12000005	E12000006	E12000007	E12000008	E12000009				
	United Kingdom ²	Great Britain	England	Wales	Scotland	Northern Ireland ^{1,2}	North East	North West	Yorkshire and The Humber	East Midlands	West Midlands	East	London	South East	South West				
Percentage change on a year earlier																			
2011 Jan	-	-	1.3	0.4	-	-	0.6	1.2	1.2	-0.2	0.6	0.8	2.0	1.5	0.5	-	-	0.9	
Feb	-	-	1.6	0.6	-	-	0.8	1.2	1.2	0.1	0.7	1.2	2.3	2.1	0.8	-	-	1.2	
Mar	-	-	1.8	0.9	-	-	0.9	1.3	1.2	0.2	0.8	1.3	2.7	2.3	1.1	-	-	1.4	
Apr	-	-	2.1	1.0	-	-	0.9	1.4	1.1	0.5	0.9	1.5	3.2	2.4	1.4	-	-	1.5	
May	-	-	2.2	1.0	-	-	1.1	1.4	1.3	0.7	1.0	1.6	3.4	2.6	1.4	-	-	1.6	
Jun	-	-	2.4	1.3	-	-	1.2	1.4	1.2	0.7	1.0	1.7	3.7	2.6	1.6	-	-	1.7	
Jul	-	-	2.5	1.3	-	-	1.2	1.4	1.1	0.9	1.2	1.7	3.9	2.8	1.6	-	-	1.8	
Aug	-	-	2.6	1.4	-	-	1.5	1.4	1.1	0.9	1.2	1.8	4.2	2.6	1.6	-	-	1.7	
Sep	-	-	2.8	1.3	-	-	1.7	1.5	1.1	1.1	1.3	1.8	4.4	2.9	1.7	-	-	1.9	
Oct	-	-	2.8	1.5	-	-	1.8	1.4	1.0	1.3	1.3	1.9	4.6	2.8	1.7	-	-	1.9	
Nov	-	-	2.9	1.5	-	-	1.6	1.2	1.1	1.3	1.3	1.8	4.7	2.9	1.9	-	-	1.9	
Dec	-	-	3.0	1.5	-	-	1.3	1.2	1.1	1.2	1.3	1.8	4.9	3.0	2.0	-	-	1.9	
2012 Jan	2.7	2.8	1.3	1.4	-	-	1.4	1.1	0.8	1.6	1.3	1.7	4.9	2.4	1.9	-	-	1.7	
Feb	2.8	2.9	1.3	1.5	-	-	1.2	1.2	0.9	1.6	1.4	1.6	4.9	2.6	2.1	-	-	1.7	
Mar	2.7	2.8	1.0	1.5	-	-	1.2	1.2	0.8	1.6	1.3	1.7	4.9	2.5	1.9	-	-	1.7	
Apr	2.8	2.9	0.7	1.3	-	-	1.2	1.1	0.9	1.6	1.3	1.8	5.2	2.5	1.8	-	-	1.7	
May	2.8	3.0	0.7	1.2	-	-	0.8	1.0	0.8	1.8	1.3	1.8	5.2	2.5	1.9	-	-	1.6	
Jun	2.8	3.0	0.6	1.2	-	-	0.8	1.0	0.9	1.7	1.3	1.8	5.3	2.5	1.8	-	-	1.6	
Jul	2.8	3.0	0.6	1.2	-	-	0.8	1.0	1.0	1.8	1.3	1.9	5.3	2.4	1.9	-	-	1.6	
Aug	2.8	2.9	0.6	1.0	-	-	0.4	0.9	1.1	1.7	1.1	1.9	5.1	2.5	2.0	-	-	1.6	
Sep	2.8	2.9	0.8	0.9	-	-	0.2	0.8	1.1	1.7	1.1	1.8	5.3	2.4	1.9	-	-	1.5	
Oct	2.8	2.9	0.6	0.8	-	-	0.0	0.7	1.3	1.8	1.2	1.6	5.2	2.5	2.0	-	-	1.6	
Nov	2.7	2.8	0.5	0.9	-	-	0.3	0.7	1.2	1.7	1.2	1.7	5.0	2.3	1.7	-	-	1.5	
Dec	2.6	2.7	0.5	1.2	-	-	0.4	0.7	1.1	1.6	1.3	1.5	4.8	2.2	1.6	-	-	1.4	
2013 Jan	2.5	2.6	0.6	1.1	-	-	0.3	0.7	1.2	1.4	1.3	1.6	4.6	2.1	1.7	-	-	1.4	
Feb	2.4	2.5	0.4	1.2	-	-	0.4	0.5	1.2	1.3	1.3	1.4	4.5	2.0	1.6	-	-	1.3	
Mar	2.4	2.5	0.4	1.2	-	-	0.4	0.5	1.1	1.2	1.3	1.5	4.5	1.9	1.5	-	-	1.3	
Apr	2.2	2.3	0.9	1.3	-	-	0.4	0.4	1.1	1.2	1.3	1.3	4.2	1.9	1.6	-	-	1.3	
May	2.2	2.3	0.9	1.5	-	-	0.6	0.4	1.1	1.1	1.1	1.0	4.2	1.7	1.6	-	-	1.2	
Jun	2.2	2.2	0.9	1.4	-	-	0.6	0.4	1.2	1.0	1.1	1.0	4.1	1.7	1.6	-	-	1.2	
Jul	2.1	2.2	0.9	1.5	-	-	0.7	0.4	1.0	0.9	1.0	0.8	4.0	1.7	1.6	-	-	1.2	
Aug	2.1	2.2	0.7	1.8	-	-	0.7	0.4	1.0	1.0	1.1	0.8	4.0	1.7	1.5	-	-	1.2	
Sep	1.9	2.0	0.4	1.8	-	-	0.7	0.4	0.8	1.0	0.9	0.8	3.5	1.6	1.3	-	-	1.1	
Oct	1.8	1.8	0.4	1.8	-	-	0.8	0.4	0.6	0.8	0.7	0.8	3.3	1.6	1.2	-	-	1.0	
Nov	1.8	1.9	0.6	1.8	-	-	0.5	0.4	0.7	1.1	0.7	0.8	3.4	1.5	1.4	-	-	1.1	
Dec	1.7	1.7	0.5	1.8	-	-	0.4	0.3	0.7	1.1	0.9	0.8	3.0	1.5	1.4	-	-	1.1	
2014 Jan	1.7	1.7	0.5	1.7	-	-	0.3	0.4	0.7	1.0	1.0	0.8	2.8	1.8	1.3	-	-	1.1	
Feb	1.6	1.6	0.6	1.8	-	-	0.4	0.4	0.6	1.0	1.0	0.9	2.5	1.8	1.3	-	-	1.1	
Mar	1.6	1.6	0.6	1.7	-	-	0.4	0.4	0.7	1.3	1.1	0.8	2.5	1.7	1.4	-	-	1.2	
Apr	1.6	1.6	0.4	1.7	-	-	0.3	0.4	0.7	1.2	1.2	0.9	2.4	1.7	1.5	-	-	1.1	
May	1.5	1.5	0.4	1.5	-	-	0.3	0.4	0.4	1.2	1.2	0.9	2.2	1.7	1.4	-	-	1.1	
Jun	1.5	1.5	0.4	1.7	-	-	0.4	0.5	0.4	1.6	1.2	1.0	2.1	1.7	1.3	-	-	1.2	
Jul	1.5	1.5	0.4	1.7	-	-	0.3	0.4	0.5	1.2	1.3	1.1	2.1	1.7	1.4	-	-	1.2	
Aug	1.4	1.4	0.4	1.8	-	-	0.2	0.4	0.5	1.1	1.2	1.1	1.9	1.7	1.3	-	-	1.1	
Sep	1.4	1.4	0.6	1.8	-	-	0.3	0.4	0.5	1.1	1.3	1.1	2.0	1.7	1.3	-	-	1.2	
Oct	1.6	1.5	0.6	2.1	-	-	0.2	0.4	0.3	1.2	1.4	1.3	2.2	1.7	1.3	-	-	1.2	
Nov	1.6	1.6	0.3	2.0	-	-	0.3	0.4	0.4	1.1	1.5	1.5	2.1	1.9	1.3	-	-	1.3	
Dec	1.7	1.8	0.2	2.0	-	-	0.3	0.5	0.5	1.1	1.3	1.8	2.4	2.1	1.5	-	-	1.4	
2015 Jan	1.9	1.9	0.6	2.1	-	-	0.3	0.6	0.4	1.2	1.2	1.8	2.8	2.1	1.6	-	-	1.4	
Feb	2.0	2.1	0.7	2.1	-	-	0.3	0.6	0.4	1.3	1.3	1.9	3.0	2.2	1.7	-	-	1.5	
Mar	2.1	2.1	0.8	2.1	-	-	0.4	0.6	0.4	1.2	1.3	1.9	3.2	2.3	1.7	-	-	1.5	
Apr	2.2	2.3	0.8	2.1	-	-	0.5	0.6	0.5	1.5	1.3	2.1	3.3	2.4	1.8	-	-	1.6	
May	2.4	2.5	0.9	2.1	-	-	0.6	0.6	0.7	1.7	1.6	2.4	3.7	2.4	1.9	-	-	1.7	
Jun	2.5	2.5	0.8	2.1	-	-	0.5	0.5	0.7	1.4	1.7	2.6	3.8	2.5	1.8	-	-	1.7	
Jul	2.4	2.5	0.8	1.8	-	-	0.5	0.6	0.8	1.7	1.7	2.6	3.7	2.4	1.6	-	-	1.7	
Aug	2.7	2.8	0.7	1.7	-	-	0.6	0.8	0.9	1.9	1.9	2.7	4.3	2.6	1.8	-	-	1.8	
Sep	2.7	2.8	0.5	1.6	-	-	0.5	0.7	0.9	2.1	1.9	2.7	4.1	2.7	1.8	-	-	1.8	
Oct	2.7	2.8	0.4	1.3	-	-	0.5	0.8	1.0	2.1	1.9	2.9	4.1	2.8	1.7	-	-	1.9	
Nov	2.7	2.8	0.7	1.1	-	-	0.6	1.0	0.9	2.2	1.8	3.0	4.1	2.7	1.8	-	-	1.9	
Dec	2.5	2.7	0.7	0.9	-	-	0.6	1.0	0.8	2.2	1.8	2.8	3.9	2.8	1.4	-	-	1.8	
2016 Jan	2.6	2.6	2.7	0.3	0.8	1.5	0.9	1.0	1.2	2.3	1.8	2.9	3.9	2.9	1.3	1.8	1.8	2.0	
Feb	2.6	2.6	2.8	0.2	0.7	1.7	0.9	1.0	1.3	2.4	1.8	3.0	3.8	2.9	1.4	1.9	1.9	2.1	
Mar	2.6	2.6	2.8	0.2	0.6	1.8	0.8	1.1	1.2	2.7	1.9	3.0	3.7	2.9	1.7	2.0	2.0	2.1	
Apr	2.6	2.6	2.8	0.2	0.5	1.9	0.8	1.1	1.3	2.6	1.9	3.0	3.7	3.1	1.5	2.0	2.0	2.2	
May	2.5	2.5	2.6	0.0	0.4	2.3	0.8	1.2	1.2	2.4	1.7	3.2	3.3	3.4	1.5	2.0	2.0	2.3	
Jun	2.4	2.4	2.5	-0.1	0.1	2.4	0.8	1.2	1.3	2.4	1.6	3.1	3.0	3.4	1.7	2.0	2.0	2.2	
Jul	2.4	2.4	2.6	0.0	0.2	2.5	0.9	1.2	1.3	2.5	1.5	3.1	3.0	3.5	1.8	2.1	2.1	2.3	
Aug	2.3	2.3	2.4	0.1	0.0	2.7	0.9	1.1	1.3	2.4	1.8	3.3	2.6	3.4	2.0	2.1	2.1	2.3	
Sep	2.3	2.3	2.5	0.1	-0.1	2.3	1.0	1.3	1.5	2.3	1.9	3.0	2.7	3.5	2.2	2.1	2.1	2.4	
Oct	2.3	2.3	2.5	0.4	-0.2	2.3	1.1	1.3	1.5	2.4	2.1	3.2	2.6	3.4	2.4	2.2	2.2	2.5	
Nov	2.3	2.3	2.4	0.3	0.1	1.9	1.1	1.1	1.6	2.5	2.2	3.1	2.4	3.4	2.4	2.2	2.2	2.5	
Dec	2.3	2.3	2.5																