

Statistical bulletin

Construction output in Great Britain: May 2017

Short-term measures of output by the construction industry in Great Britain and contracts awarded for new construction work in the UK.

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1 . Main points

- Construction output fell in May 2017 by 1.2%, in both the month-on-month and 3 month on 3 month time series.
- The 3 month on 3 month decrease represents the largest 3 month on 3 month fall in output since September 2012, driven by falls in both repair and maintenance, and all new work.
- The main downward pressure on month-on-month growth came from all new work, most notably from infrastructure, which fell 4.0% following strong growth in April 2017.
- Construction output also fell month-on-year, falling by 0.3% in May 2017, the first consecutive month-on-year decrease in output since May 2013.
- Construction output for April 2017 has been revised up 0.5 percentage points from negative 1.6% to negative 1.1%.

2 . Things you need to know about this release

The monthly business survey, Construction Output, collects output by sector from businesses in the construction industry within Great Britain. Output is defined as the amount chargeable to customers for building and civil engineering work done in the relevant period excluding VAT and payments to sub-contractors.

The survey's results are used to produce seasonally adjusted monthly, quarterly and annual estimates of output in the construction industry at current price and at chained volume measures (removing the effect of inflation). The estimates are widely used by private and public sector institutions, particularly by the Bank of England and Her Majesty's Treasury, to assist in informed decision-making and policy-making. Construction output is an important economic indicator and is also therefore used in the compilation of the output measure of gross domestic product.

This May 2017 release contains revisions for April 2017 onwards. 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

On 11 December 2014, the UK Statistics Authority announced its decision to suspend the designation of Construction Output and New Orders as [National Statistics](#) due to concerns about the quality of the [Construction Price and Cost Indices](#) used to remove the effects of inflation from the statistics.

We took responsibility for the publication of the Construction Price and Cost indices from the [Department of Business, Innovation and Skills \(BIS\)](#) on 1 April 2015, introducing an interim solution for measuring output prices in June 2015 for all periods from January 2014 onwards. We are currently developing a long-term solution for the deflation of construction statistics.

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

3 . Construction output falls again in May 2017

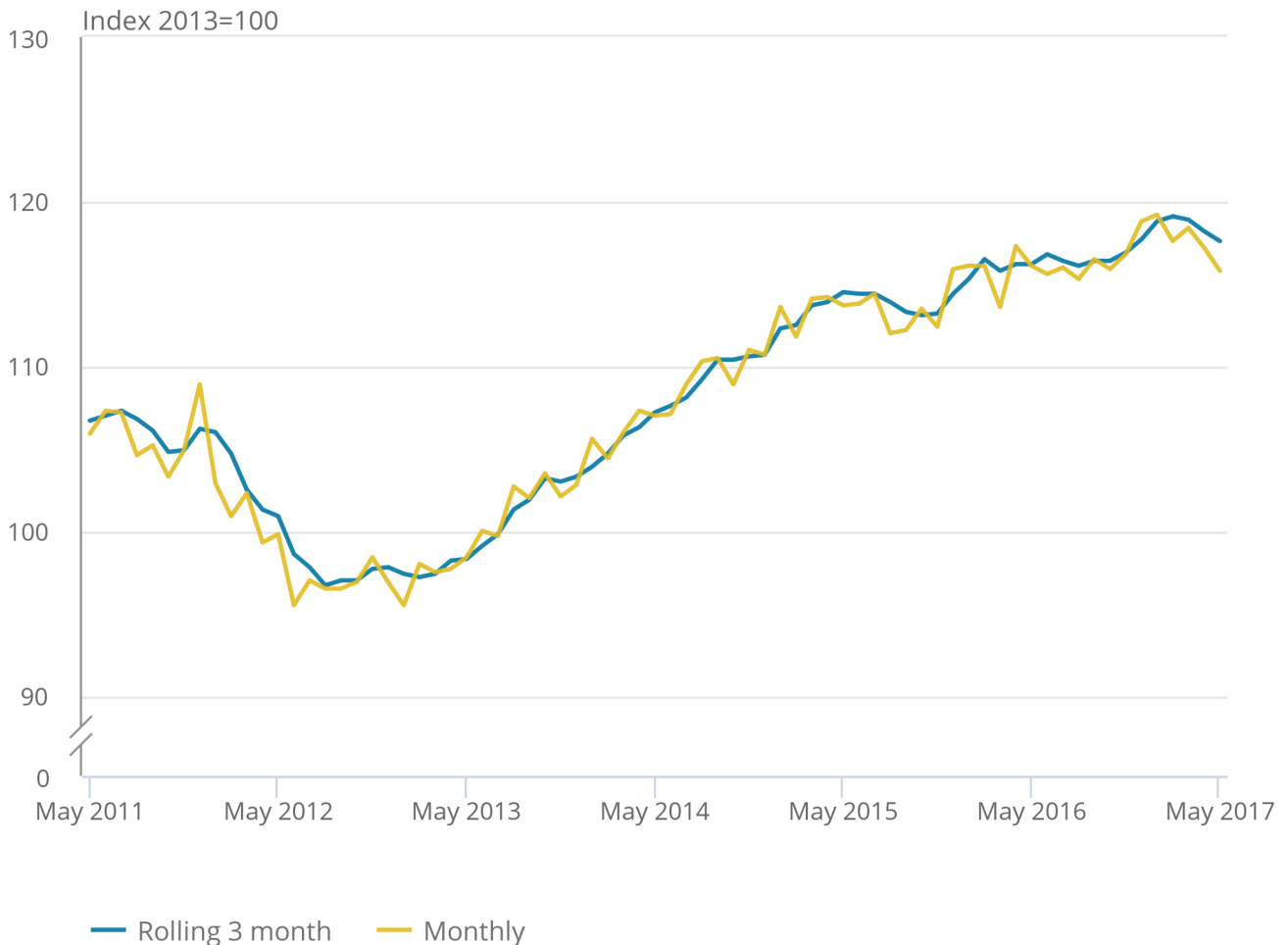
In May 2017, construction output fell 1.2% in both the month-on-month and 3 month on 3 month time series, both of which fell for the second consecutive period. The monthly time series shows how volatile construction output can be, therefore the rolling 3 month time series is also shown in Figure 1, providing a more comprehensive picture of the underlying trends within the construction industry.

Figure 1: Rolling 3 month and monthly all work, May 2017

Chained volume measure, seasonally adjusted, Great Britain

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Chained volume measure, seasonally adjusted, Great Britain



Source: Construction: Output and Employment - Office for National Statistics

Source: Construction: Output and Employment - Office for National Statistics

Although construction output has fallen in May 2017, the growth rate for April 2017 has been revised up to -1.1%, having previously been at a level of -1.6%. These revisions have occurred as a result of late data and information received from survey respondents, causing upward revisions, in particular in infrastructure and private housing repair and maintenance.

4 . Contributions to growth

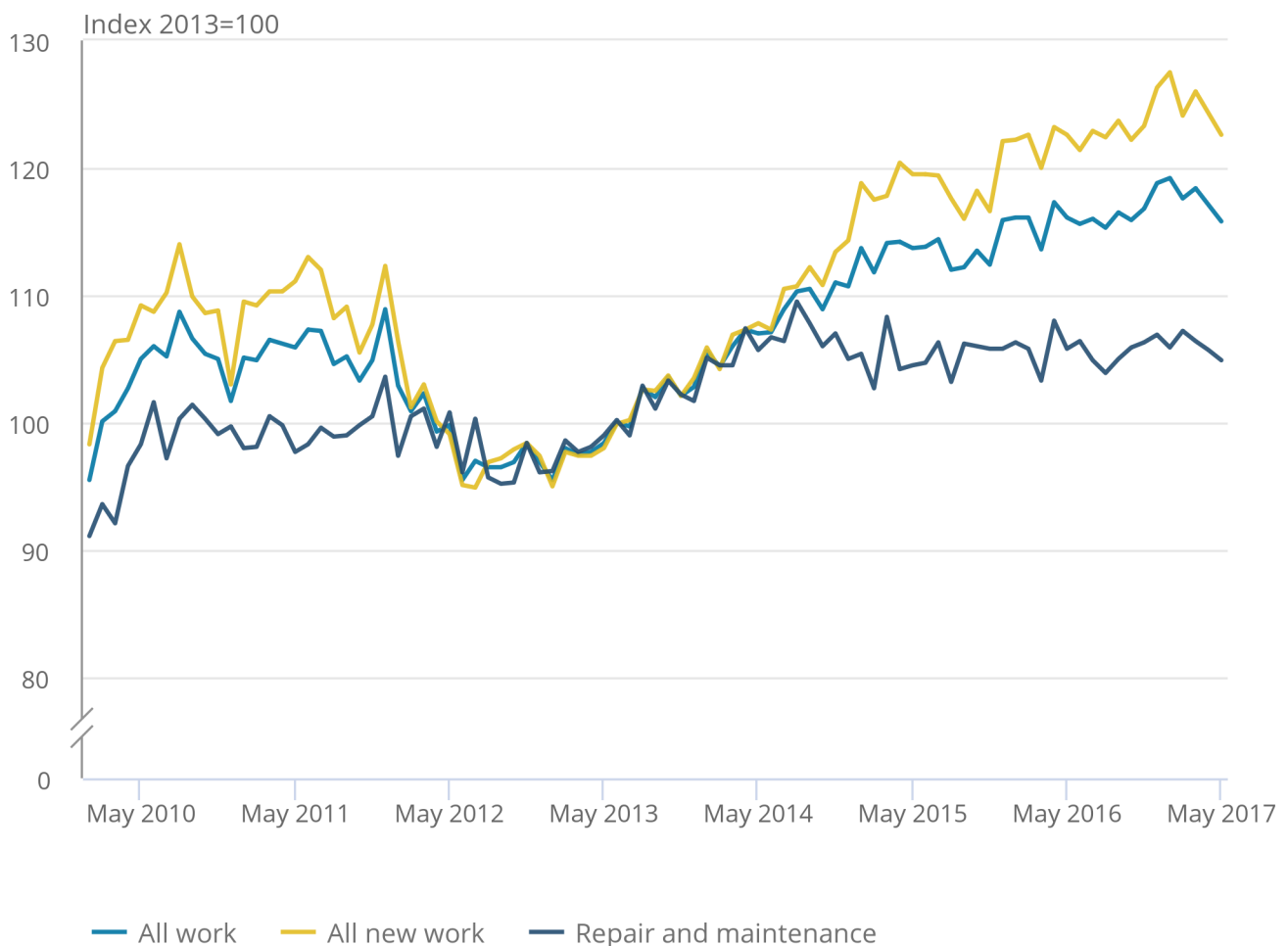
Construction output can be broken down by different types of work, these are categorised into new work, and repair and maintenance as shown in Figure 2.

Figure 2: Components of all work, May 2017

Chained volume measure, seasonally adjusted, Great Britain

Figure 2: Components of all work, May 2017

Chained volume measure, seasonally adjusted, Great Britain



Source: Construction: Output and Employment - Office for National Statistics

Source: Construction: Output and Employment - Office for National Statistics

Figure 2 shows that through to mid-2014, new work, and repair and maintenance followed a similar pattern but since reaching a level peak in August 2014, repair and maintenance has contracted slowly. Over the same period, new work has continued to increase steadily, largely down to a rise in new housing work.

All new work fell for the second consecutive month, dropping 1.4%, while repair and maintenance fell for the third consecutive month, falling 0.7% in May 2017. It is worth noting that all new work accounts for approximately two-thirds of all work, while repair and maintenance accounts for approximately one-third.

Figure 3: Difference in month-on-month seasonally adjusted volume from the main construction sectors

Great Britain, May 2017 compared with April 2017

Figure 3: Difference in month-on-month seasonally adjusted volume from the main construction sectors

Great Britain, May 2017 compared with April 2017



Source: Construction: Output and Employment - Office for National Statistics

Source: Construction: Output and Employment - Office for National Statistics

Notes:

When compared with April 2017, the most notable downward pressure on construction output came from infrastructure, which fell by 4.0%, equating to a real value fall of £61 million.

Figure 3 shows the difference in month-on-month volume from the different sectors in terms of real value growth, taken from our chained volume measure series.

When compared with April 2017, the most notable downward pressure on construction output came from infrastructure, which fell by 4.0%, equating to a real value fall of £61 million. However, this came after particularly strong growth in infrastructure in April 2017, where it grew 7.4%.

The other notable downward pressure on construction output came from private commercial work, and non-housing repair and maintenance. Private commercial work shrank at a rate of 1.6%, resulting in a fall of £37 million in comparison with the previous month. Non-housing repair and maintenance fell for the third consecutive month, at a rate of 1.3%, causing output to decrease by £24 million.

In contrast, the only sector to provide upward pressure on construction output was public housing. The 6.1% increase in May 2017 equates to an increase of £24 million in real volume terms. However, it must be noted that this increase in public housing comes after a 5.4% decrease in April 2017.

5 . Detailed growth rates

Table 1 provides a detailed description of the growth rates of each work type, alongside the seasonally adjusted chained volume measure level of output.

Table 1: Construction Output Main Figures, Great Britain, May 2017

Seasonally adjusted, value £ million and percentage change

	Value £ millions	Most recent 3 months on 3 months earlier	Most recent month on the same month a year ago	Most recent month on the previous month
Total all work	11,428	-1.2	-0.3	-1.2
Total all new work	7,442	-1.3	0	-1.4
Total repair and maintenance	3,986	-1	-0.9	-0.7
New housing				
Public	410	5.7	17.2	6.1
Private	2,253	-1.3	1	-0.1
Other new work				
Infrastructure	1,491	-1.8	0.9	-4
Excl infrastructure				
Public	770	-5.4	-8.2	-2.7
Private industrial	253	-7.7	-26.2	-2.2
Private commercial	2,265	0.1	2.8	-1.6
Repair and maintenance				
Public housing	539	-1.5	-8.7	0
Private housing	1,583	-1	7.9	-0.3
Non-housing R&M	1,864	-0.8	-5	-1.3

Source: Construction: Output and Employment, Office for National Statistics

Table 1 shows both the growth rate for each work type in terms of 3 month on 3 month, month- on-year and month-on-month, as well as the volume of work broken down by sector.

Total all work decreased to a value of £11,428 million in May 2017. Despite this fall, new housing remained strong. Private housing remained relatively flat, while public housing reached its highest level since April 2015, increasing to £410 million. Elsewhere, private commercial work did decrease, but remains at a relatively high level at £2,265 million.

Construction output dropped 1.2% on a 3 month on 3 month basis in May 2017. There was last a larger drop in September 2012 although construction output also contracted by 1.2% in October 2015. The decrease in May 2017 was driven mainly by a decrease in total all new work, which fell 1.3%. This fall was driven mainly by infrastructure and private new housing, which dropped 1.3% and 1.8% respectively.

With regards to month-on-same month a year ago growth, construction output also fell, decreasing 0.3%. This follows a fall in output of 0.1% in April 2017, representing the first consecutive decreases in month-on-same month a year ago growth since May 2013. This has been driven by a fall in repair and maintenance work, with all new work remaining stable. Both public housing repair and maintenance and non-housing repair and maintenance dropped significantly compared with the same month in the previous year, however this was somewhat offset by a rise in private housing repair and maintenance.

6 . Links to related statistics

Output in the construction industry follows the [Eurostat Short Term Statistics \(STS\)](#) regulation for production in construction. Before any comparisons are made with the Euro area or EU28, it is worth noting that the UK is the only member state to follow the [A method](#) for compiling [production in construction statistics](#).

The latest release of [Production in Construction](#) published by Eurostat on 19 June 2017 for April 2017, showed the seasonally adjusted production in the construction sector increased by 0.3% in the Euro area (EA19) and remained stable in the EU28 when compared with March 2017. It should be noted that an accurate comparison cannot be made as Eurostat data are calculated on a 2010 equals 100 basis, while Great Britain data are calculated on a 2013 equals 100 basis.

Outside the EU, the US Census Bureau release [Value of construction put in place](#) was published on 3 July 2017. This includes the total dollar value of construction work done in the US.

[VAT turnover implementation into National Accounts: June Update](#) was published on 1 June 2017. This update explains that the first use of VAT in the national accounts will be in the Quarterly National Accounts (July to Sept) 2017 and the Index of Services: Oct 2017 bulletins, which are both due for publication on 22 December 2017.

Other useful links.

- [Department for Communities and Local Government](#) (Housing starts and completions)
- [Construction statistics in Northern Ireland](#)

7 . Quality and Methodology

Our Monthly Construction Output Survey measures output from the construction industry in Great Britain. It samples 8,000 businesses, with all businesses employing over 100 people or with an annual turnover of more than £60 million receiving a questionnaire by post every month.

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

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

8 . What's changed in this release?

On 15 June 2017, the [National Statistician announced](#) that pre-release access to Office for National Statistics publications would stop with effect from 1 July 2017. This is therefore the first Construction statistics release where ministers and other officials did not receive access to the information prior to publication.

Two additions have also been made to the construction output tables, in the form of Tables 3c and 3d. Table 3c shows the 3 month on 3 month construction output growth rates, while Table 3d shows the 3-month on year growth rates.

1A.A CONSTRUCTION OUTPUT: VOLUME SEASONALLY ADJUSTED INDEX NUMBERS BY SECTOR

Index 2013 = 100

	New Housing				Other New Work				Repair and Maintenance					All Repair and Maintena- nce	All Work
	Public housing	Private housing	Total new housing	Infrastr- ucture	Excluding Infrastructure			All new work	Housing			Non housing R&M			
					Public	Private industri- al	Private commerci- al		Public housing	Private housing	Total housing				
	MV36	MV37	MVL7	MV38	MV39	MV3A	MV3B	MV3C	MV3D	MV3E	MV3F	MV3G	MV3H	MV3I	
1997	44.0	84.2	76.4	77.3	50.3	208.4	92.1	83.5	115.3	113.7	115.2	85.1	98.5	91.3	
1998	35.6	85.0	75.5	75.2	53.0	212.3	99.8	85.6	107.7	116.1	113.5	86.0	98.3	92.6	
1999	30.9	76.5	67.6	73.1	59.7	219.1	111.7	88.2	103.3	114.6	110.8	85.5	96.8	93.8	
2000	38.8	85.5	76.4	68.6	56.5	195.6	112.6	88.4	100.0	115.2	109.7	90.0	98.8	94.6	
2001	39.7	79.8	72.0	73.4	57.0	199.7	111.8	88.3	94.6	120.2	110.5	98.3	103.7	96.3	
2002	44.9	86.9	78.8	83.1	72.2	158.5	115.5	93.7	89.7	130.2	114.2	104.7	108.9	101.8	
2003	51.1	108.5	97.4	78.3	90.5	167.3	111.3	99.4	101.4	127.2	117.3	107.7	111.9	106.7	
2004	61.4	131.9	118.2	68.3	101.7	172.4	122.7	108.8	111.3	123.6	119.0	102.9	110.1	112.4	
2005	57.7	135.7	120.6	65.5	91.5	168.9	117.4	105.6	110.5	112.6	111.8	105.5	108.3	109.7	
2006	68.1	136.1	122.9	60.4	84.1	183.1	127.4	108.4	105.8	105.6	105.6	105.8	105.6	110.5	
2007	78.6	133.9	123.2	59.6	82.6	178.8	140.2	112.2	100.3	102.9	101.9	108.3	105.1	112.9	
2008	71.0	103.9	97.5	66.2	91.9	138.4	141.9	106.2	103.2	104.1	103.7	111.9	107.9	109.9	
2009	72.5	71.4	71.6	75.8	111.2	97.1	106.3	89.9	100.4	91.0	94.1	101.0	97.6	95.4	
2010	109.7	85.9	90.5	100.9	151.4	111.1	108.2	107.3	111.1	102.0	104.9	90.3	97.6	103.6	
2011	112.1	93.7	97.2	109.4	140.0	100.6	110.9	109.9	102.1	102.8	102.6	96.4	99.5	105.9	
2012	93.8	91.4	91.9	97.8	110.6	110.2	100.0	99.0	104.3	97.7	99.8	96.0	97.9	98.6	
2013	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	
2014	130.7	123.6	125.0	96.4	98.9	114.1	106.1	109.3	101.6	108.2	106.1	106.6	106.3	108.1	
2015	107.0	134.4	129.0	132.9	97.0	125.1	107.4	118.6	102.1	110.4	107.7	102.8	105.3	113.5	
2016	100.2	152.0	142.0	120.7	99.7	113.2	116.6	122.7	94.6	116.3	109.3	102.1	105.7	116.2	

Users of these data should note that there may be instances where the period on period growths for the same component differ between tables. This is due to the growth rates being calculated at a higher precision than 1 dp within the production system. This accuracy is truncated when transferred into the published tables.

1B.A CONSTRUCTION OUTPUT: VOLUME NON-SEASONALLY ADJUSTED INDEX NUMBERS BY SECTOR

Index 2013 = 100

	New Housing				Other New Work			Repair and Maintenance					All Repair and Maintena- nce	All Work
	Public housing	Private housing	Total new housing	Infrastr- ucture	Excluding Infrastructure			All new work	Housing			Non housing R&M		
					Public	Private industri- al	Private commerci- al		Public housing	Private housing	Total housing			
	MV3J	MV3K	MVL8	MV3L	MV3M	MV3N	MV3O	MV3P	MV3Q	MV3R	MV3S	MV3T	MV3U	MV3V
1997	42.5	84.8	76.6	80.1	51.2	211.7	93.7	85.6	117.5	117.4	117.4	84.6	101.0	91.5
1998	34.4	85.6	75.6	77.8	53.9	215.5	101.5	87.8	109.7	119.8	116.5	85.5	101.0	92.9
1999	29.9	77.3	68.1	76.0	60.9	223.3	114.1	90.4	105.7	118.8	114.6	85.4	100.0	94.1
2000	37.5	86.1	76.7	71.1	57.6	198.9	114.7	90.6	102.1	119.0	113.6	89.6	101.6	94.8
2001	38.4	80.4	72.3	76.1	58.1	203.2	113.8	90.2	96.5	124.2	115.3	97.8	106.6	96.5
2002	43.4	87.6	79.0	86.1	73.4	161.0	117.5	95.5	91.5	134.4	120.6	104.2	112.4	102.0
2003	49.5	109.4	97.8	81.2	92.2	170.2	113.3	101.9	103.5	131.5	122.5	107.3	114.9	106.9
2004	59.7	133.5	119.2	71.1	104.0	175.9	125.5	112.0	114.0	128.2	123.6	102.9	113.2	112.5
2005	56.2	137.6	121.8	68.3	93.7	172.8	120.2	109.1	113.5	117.0	115.8	105.7	110.8	109.8
2006	66.5	138.6	124.6	63.3	86.4	188.1	131.0	112.1	109.0	110.2	109.8	106.4	108.1	110.5
2007	77.0	136.8	125.2	62.6	85.3	184.3	144.7	116.0	103.7	107.8	106.5	109.3	107.9	112.9
2008	69.7	106.4	99.2	69.7	95.0	142.8	146.7	109.5	106.9	109.2	108.5	113.1	110.8	110.0
2009	71.1	73.0	72.7	79.8	114.9	100.2	109.8	92.7	103.9	95.4	98.1	102.0	100.1	95.5
2010	109.7	85.9	90.5	100.9	151.4	111.1	108.2	107.3	111.1	102.0	104.9	90.3	97.6	103.6
2011	112.1	93.7	97.2	109.4	140.0	100.6	110.9	109.9	102.1	102.8	102.6	96.4	99.5	105.9
2012	93.8	91.4	91.9	97.8	110.6	110.2	100.0	99.0	104.3	97.7	99.8	96.0	97.9	98.6
2013	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
2014	130.2	123.7	124.9	96.3	98.3	115.1	105.4	109.0	101.7	108.5	106.3	106.6	106.4	108.0
2015	107.5	134.4	129.2	125.6	97.5	127.3	107.1	117.2	102.4	110.7	108.1	103.0	105.5	112.7
2016	99.8	151.0	141.1	115.8	100.6	116.4	115.1	121.3	95.0	116.7	109.7	102.3	106.0	115.4

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2A.A CONSTRUCTION OUTPUT: VOLUME SEASONALLY ADJUSTED BY SECTOR

£ million

	New Housing				Other New Work				Repair and Maintenance					All Repair and Maintena- nce	All Work
	Public housing	Private housing	Total new housing	Infrastr- ucture	Excluding Infrastructure			All new work	Housing			Non housing R&M			
					Public	Private industri- al	Private commerci- al		Public housing	Private housing	Total housing				
	MV3W	MV3X	MVL9	MV3Y	MV3Z	MV42	MV43	MV44	MV45	MV46	MV47	MV48	MV49	MV4A	
1997	1 832	14 934	16 719	11 900	5 103	7 405	21 667	62 367	8 604	18 000	26 762	20 302	46 389	108 110	
1998	1 484	15 084	16 513	11 571	5 378	7 544	23 482	64 008	8 037	18 377	26 364	20 525	46 274	109 715	
1999	1 287	13 569	14 805	11 248	6 053	7 784	26 291	65 925	7 709	18 149	25 742	20 411	45 584	111 095	
2000	1 614	15 159	16 721	10 554	5 734	6 947	26 492	66 045	7 461	18 232	25 492	21 484	46 522	112 070	
2001	1 652	14 150	15 756	11 302	5 788	7 098	26 301	65 984	7 056	19 032	25 664	23 451	48 817	114 061	
2002	1 870	15 421	17 242	12 780	7 324	5 631	27 170	70 042	6 695	20 610	26 527	24 999	51 283	120 602	
2003	2 128	19 251	21 314	12 047	9 190	5 946	26 182	74 256	7 569	20 135	27 244	25 697	52 696	126 402	
2004	2 556	23 391	25 867	10 513	10 319	6 124	28 875	81 288	8 304	19 561	27 637	24 562	51 808	133 118	
2005	2 404	24 074	26 392	10 084	9 286	6 002	27 621	78 938	8 252	17 817	25 970	25 190	50 976	129 877	
2006	2 833	24 148	26 903	9 296	8 529	6 508	29 979	80 992	7 897	16 710	24 532	25 250	49 704	130 882	
2007	3 272	23 754	26 959	9 168	8 386	6 352	32 997	83 845	7 482	16 292	23 682	25 840	49 502	133 707	
2008	2 957	18 433	21 345	10 190	9 328	4 916	33 386	79 375	7 701	16 474	24 093	26 699	50 781	130 210	
2009	3 017	12 667	15 671	11 673	11 289	3 450	25 011	67 215	7 490	14 402	21 857	24 104	45 953	113 028	
2010	4 720	15 377	20 097	14 865	14 886	3 825	24 486	78 159	8 136	15 766	23 901	20 605	44 507	122 666	
2011	4 823	16 768	21 592	16 107	13 761	3 464	25 082	80 005	7 476	15 892	23 368	21 991	45 359	125 365	
2012	4 037	16 363	20 400	14 403	10 873	3 794	22 614	72 084	7 639	15 107	22 746	21 902	44 648	116 732	
2013	4 303	17 902	22 206	14 728	9 830	3 445	22 621	72 829	7 325	15 456	22 782	22 818	45 600	118 429	
2014	5 623	22 127	27 750	14 196	9 722	3 931	23 995	79 594	7 441	16 724	24 165	24 313	48 478	128 072	
2015	4 604	24 053	28 655	19 580	9 535	4 310	24 305	86 386	7 478	17 065	24 543	23 456	47 999	134 386	
2016	4 310	27 218	31 528	17 777	9 800	3 901	26 376	89 382	6 930	17 972	24 902	23 299	48 201	137 583	

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2B.A CONSTRUCTION OUTPUT: VOLUME NON-SEASONALLY ADJUSTED BY SECTOR

£ million

	New Housing				Other New Work				Repair and Maintenance				All Repair and Maintenance	All Work
	Public housing	Private housing	Total new housing	Infra-structure	Excluding Infrastructure			All new work	Housing			Non housing R&M		
					Public	Private industrial	Private commercial		Public housing	Private housing	Total housing			
	MV4B	MV4C	MVLR	MV4D	MV4E	MV4F	MV4G	MV4H	MV4I	MV4J	MV4K	MV4L	MV4M	MV4N
1997	1 830	15 176	17 006	11 798	5 028	7 293	21 188	62 312	8 610	18 140	26 750	19 307	46 056	108 369
1998	1 480	15 316	16 796	11 464	5 294	7 424	22 951	63 928	8 039	18 509	26 548	19 508	46 056	109 984
1999	1 288	13 840	15 128	11 193	5 987	7 693	25 811	65 812	7 743	18 360	26 104	19 484	45 587	111 400
2000	1 614	15 423	17 037	10 476	5 657	6 851	25 941	65 962	7 476	18 399	25 875	20 455	46 330	112 292
2001	1 651	14 397	16 048	11 211	5 708	6 998	25 746	65 711	7 068	19 199	26 266	22 325	48 592	114 303
2002	1 868	15 677	17 545	12 675	7 215	5 545	26 583	69 564	6 704	20 781	27 485	23 788	51 273	120 836
2003	2 130	19 590	21 720	11 955	9 065	5 863	25 640	74 244	7 584	20 319	27 903	24 473	52 376	126 620
2004	2 567	23 892	26 460	10 475	10 219	6 061	28 381	81 595	8 349	19 812	28 161	23 474	51 635	133 230
2005	2 418	24 630	27 048	10 064	9 208	5 953	27 197	79 471	8 311	18 079	26 390	24 118	50 508	129 979
2006	2 862	24 811	27 673	9 317	8 497	6 481	29 643	81 612	7 988	17 030	25 018	24 278	49 296	130 907
2007	3 314	24 496	27 810	9 221	8 384	6 350	32 743	84 508	7 597	16 661	24 259	24 935	49 194	133 701
2008	2 998	19 040	22 038	10 266	9 340	4 920	33 183	79 746	7 831	16 875	24 707	25 805	50 512	130 258
2009	3 059	13 074	16 134	11 753	11 297	3 451	24 845	67 480	7 610	14 741	22 351	23 283	45 634	113 113
2010	4 720	15 377	20 097	14 865	14 886	3 825	24 486	78 159	8 136	15 766	23 901	20 605	44 507	122 666
2011	4 823	16 768	21 592	16 107	13 761	3 464	25 082	80 005	7 476	15 892	23 368	21 991	45 359	125 365
2012	4 037	16 363	20 400	14 403	10 873	3 794	22 614	72 084	7 639	15 107	22 746	21 902	44 648	116 732
2013	4 303	17 902	22 206	14 728	9 830	3 445	22 621	72 829	7 325	15 456	22 782	22 818	45 600	118 429
2014	5 603	22 140	27 743	14 178	9 665	3 965	23 853	79 404	7 447	16 764	24 210	24 319	48 529	127 933
2015	4 627	24 069	28 696	18 494	9 582	4 384	24 221	85 377	7 502	17 116	24 618	23 506	48 124	133 501
2016	4 296	27 033	31 329	17 055	9 894	4 008	26 041	88 326	6 958	18 039	24 997	23 337	48 334	136 660

Users of these data should note that there may be instances where the period on period growths for the same component differ between tables. This is due to the growth rates being calculated at a higher precision than 1 dp within the production system. This accuracy is truncated when transferred into the published tables.

3A.A CONSTRUCTION OUTPUT: VOLUME SEASONALLY ADJUSTED PERCENTAGE CHANGE ON SAME PERIOD A YEAR EARLIER

Index 2013 = 100

	New Housing			Other New Work				Repair and Maintenance					All Repair and Maintena- nce	All Work
	Public housing	Private housing	Total housing	Infrastr- ucture	Excluding Infrastructure			All new work	Housing			Non housing R&M		
					Public	Private industri- al	Private commerci- al		Public housing	Private housing	Total housing			
	MV5H	MV5I	MVM3	MV5J	MV5K	MV5L	MV5M	MV5N	MV5O	MV5P	MV5Q	MV5R	MV5S	MV5T
1998	-19.0	1.0	-1.2	-2.8	5.4	1.9	8.4	2.6	-6.6	2.1	-1.5	1.1	-0.2	1.5
1999	-13.3	-10.0	-10.3	-2.8	12.6	3.2	12.0	3.0	-4.1	-1.2	-2.4	-0.6	-1.5	1.3
2000	25.5	11.7	12.9	-6.2	-5.3	-10.7	0.8	0.2	-3.2	0.5	-1.0	5.3	2.1	0.9
2001	2.3	-6.7	-5.8	7.1	0.9	2.2	-0.7	-0.1	-5.4	4.4	0.7	9.2	4.9	1.8
2002	13.2	9.0	9.4	13.1	26.5	-20.7	3.3	6.1	-5.1	8.3	3.4	6.6	5.1	5.7
2003	13.8	24.8	23.6	-5.7	25.5	5.6	-3.6	6.0	13.1	-2.3	2.7	2.8	2.8	4.8
2004	20.1	21.5	21.4	-12.7	12.3	3.0	10.3	9.5	9.7	-2.9	1.4	-4.4	-1.7	5.3
2005	-5.9	2.9	2.0	-4.1	-10.0	-2.0	-4.3	-2.9	-0.6	-8.9	-6.0	2.6	-1.6	-2.4
2006	17.9	0.3	1.9	-7.8	-8.1	8.4	8.5	2.6	-4.3	-6.2	-5.5	0.2	-2.5	0.8
2007	15.5	-1.6	0.2	-1.4	-1.7	-2.4	10.1	3.5	-5.3	-2.5	-3.5	2.3	-0.4	2.2
2008	-9.6	-22.4	-20.8	11.2	11.2	-22.6	1.2	-5.3	2.9	1.1	1.7	3.3	2.6	-2.6
2009	2.0	-31.3	-26.6	14.5	21.0	-29.8	-25.1	-15.3	-2.7	-12.6	-9.3	-9.7	-9.5	-13.2
2010	56.5	21.4	28.2	27.3	31.9	10.9	-2.1	16.3	8.6	9.5	9.4	-14.5	-3.1	8.5
2011	2.2	9.0	7.4	8.4	-7.6	-9.5	2.4	2.4	-8.1	0.8	-2.2	6.7	1.9	2.2
2012	-16.3	-2.4	-5.5	-10.6	-21.0	9.5	-9.8	-9.9	2.2	-4.9	-2.7	-0.4	-1.6	-6.9
2013	6.6	9.4	8.9	2.3	-9.6	-9.2	-	1.0	-4.1	2.3	0.2	4.2	2.1	1.5
2014	30.7	23.6	25.0	-3.6	-1.1	14.1	6.1	9.3	1.6	8.2	6.1	6.6	6.3	8.1
2015	-18.1	8.7	3.3	37.9	-1.9	9.6	1.3	8.5	0.5	2.0	1.6	-3.5	-1.0	4.9
2016	-6.4	13.2	10.0	-9.2	2.8	-9.5	8.5	3.5	-7.3	5.3	1.5	-0.7	0.4	2.4

Users of these data should note that there may be instances where the period on period growths for the same component differ between tables. This is due to the growth rates being calculated at a higher precision than 1 dp within the production system. This accuracy is truncated when transferred into the published tables.

3A.Q CONSTRUCTION OUTPUT: VOLUME SEASONALLY ADJUSTED PERCENTAGE CHANGE ON PREVIOUS QUARTER

2013 = 100

	New Housing			Other New Work				Repair and Maintenance					All Repair and Maintena- nce	All Work
	Public housing	Private housing	Total new housing	Infra- struc- ture	Excluding Infrastructure			All new work	Housing			Non housing R&M		
					Public	Private industri- al	Private commerci- al		Public housing	Private housing	Total housing			
	MV54	MV55	MVM7	MV56	MV57	MV58	MV59	MV5A	MV5B	MV5C	MV5D	MV5E	MV5F	MV5G
2002 Q2	-2.3	-0.5	-0.7	2.1	7.5	-6.1	0.1	0.6	-2.2	6.4	3.3	-1.4	0.8	0.7
2002 Q3	5.5	8.7	8.3	6.4	7.7	5.9	1.5	5.0	-1.4	3.0	1.5	0.8	1.1	3.5
2002 Q4	-1.2	6.3	5.5	-6.4	4.1	-0.9	-	0.4	3.8	5.4	4.9	2.5	3.6	1.6
2003 Q1	4.3	4.8	4.8	-0.4	3.8	1.2	-5.4	-0.5	-1.6	-14.8	-10.6	-0.1	-5.1	-2.2
2003 Q2	4.1	3.1	3.2	-1.9	6.8	-0.1	-1.2	0.8	11.3	11.0	11.2	1.6	5.9	2.7
2003 Q3	5.3	8.6	8.3	-4.5	7.4	4.0	1.4	3.1	10.1	-1.8	2.4	1.0	1.6	2.6
2003 Q4	7.3	9.5	9.3	-1.7	7.8	6.9	4.8	5.6	-3.2	-0.8	-1.7	-2.6	-2.2	2.7
2004 Q1	9.3	6.2	6.5	-5.2	3.6	1.2	5.1	3.6	7.1	1.6	3.5	2.0	2.7	3.3
2004 Q2	2.6	1.6	1.7	-1.5	-0.8	-4.0	2.3	0.8	-3.2	-7.3	-5.9	-6.7	-6.3	-1.8
2004 Q3	-1.2	1.5	1.3	-3.4	-2.2	-2.5	-0.5	-0.7	-1.7	2.5	0.9	-2.0	-0.6	-0.6
2004 Q4	-2.6	0.5	0.2	-5.0	-2.9	-3.1	-2.3	-2.0	3.6	-4.2	-1.4	2.9	0.8	-1.0
2005 Q1	-4.0	0.6	0.2	2.1	-1.8	-1.7	-1.6	-0.7	4.4	-2.3	0.1	6.0	3.1	0.7
2005 Q2	-1.9	2.6	2.2	-2.5	-3.1	3.9	-0.7	-	-0.6	-3.0	-2.1	-2.0	-2.1	-0.7
2005 Q3	-2.1	-1.6	-1.6	1.9	-4.8	1.9	-2.1	-1.5	-10.1	-0.8	-4.3	-1.5	-2.8	-2.0
2005 Q4	9.9	-1.4	-0.4	3.0	-2.0	2.2	0.9	0.5	-1.5	-1.5	-1.5	-1.7	-1.6	-0.2
2006 Q1	5.0	-0.5	0.1	-3.5	-0.8	4.8	4.2	1.5	0.3	-0.1	0.1	0.3	0.2	1.0
2006 Q2	4.9	1.4	1.7	-7.2	-2.5	-1.4	2.2	0.2	-0.8	-1.6	-1.4	4.3	1.7	0.7
2006 Q3	4.1	1.5	1.8	-2.9	-1.5	0.3	4.2	1.8	6.5	-4.9	-1.0	-3.4	-2.3	0.3
2006 Q4	1.5	0.9	1.0	-0.3	-0.9	2.9	3.9	2.0	-2.0	-1.1	-1.5	4.2	1.6	1.8
2007 Q1	10.5	-	1.1	-1.4	-0.4	1.3	1.9	1.1	-0.4	2.4	1.4	1.8	1.6	1.2
2007 Q2	2.1	-2.0	-1.5	1.8	0.2	-0.7	2.1	0.5	-7.3	0.9	-2.0	-2.6	-2.4	-0.5
2007 Q3	-2.0	-2.1	-2.1	2.9	1.0	-6.4	-0.3	-0.9	-3.6	-4.7	-4.4	-1.0	-2.6	-1.5
2007 Q4	-1.5	-3.3	-3.1	3.4	0.4	-7.5	3.6	0.4	4.3	2.8	3.3	2.4	2.8	1.2
2008 Q1	-4.2	-5.0	-4.9	4.0	5.6	-1.5	2.8	0.7	0.4	-0.3	-0.1	3.6	1.9	1.1
2008 Q2	-1.4	-9.3	-8.3	3.9	2.6	-10.7	-3.5	-3.8	6.6	2.8	4.1	4.1	4.1	-1.1
2008 Q3	-2.5	-11.3	-10.1	2.5	4.4	-7.1	0.1	-2.3	-2.2	-4.2	-3.5	-4.1	-3.8	-2.8
2008 Q4	-7.6	-13.7	-12.8	-6.9	0.5	-11.5	-7.9	-8.2	-2.5	6.7	3.5	-6.8	-2.1	-5.9
2009 Q1	-6.5	-11.9	-11.1	2.1	1.2	-13.9	-9.4	-7.1	-6.7	-13.3	-11.1	-3.3	-7.1	-7.1
2009 Q2	4.7	-3.9	-2.5	9.0	8.7	-6.8	-6.1	-1.0	4.3	-3.8	-1.0	-2.5	-1.8	-1.3
2009 Q3	17.6	-5.1	-1.0	6.9	11.6	-1.4	-10.5	-1.5	7.2	6.8	6.9	7.6	7.3	1.8
2009 Q4	16.4	4.8	7.3	18.2	9.8	6.9	-8.5	3.8	-4.2	-11.7	-9.0	-8.5	-8.7	-1.2
2010 Q1	18.8	8.9	11.1	9.0	11.3	3.1	9.1	9.7	5.8	7.4	6.9	-15.5	-4.9	4.0
2010 Q2	4.1	10.0	8.6	4.7	4.9	2.4	2.8	4.9	4.8	8.3	7.1	7.3	7.2	5.7
2010 Q3	11.0	7.6	8.4	-5.4	-3.1	17.0	5.8	3.0	-3.2	6.7	3.2	-2.0	0.8	2.2
2010 Q4	-2.1	-0.5	-0.9	-9.9	3.6	-18.7	-5.3	-4.1	-2.1	-1.6	-1.8	2.2	-	-2.6
2011 Q1	4.3	2.0	2.5	13.7	1.1	-3.7	-1.2	2.7	-4.8	-3.4	-3.9	2.8	-0.8	1.4
2011 Q2	-4.5	0.9	-0.4	10.0	-8.5	3.4	4.2	1.6	0.7	-0.7	-0.3	-0.3	-0.3	0.9
2011 Q3	-4.1	2.4	0.9	-4.7	-6.7	-2.8	1.8	-1.5	-4.1	-0.3	-1.6	2.8	0.6	-0.8
2011 Q4	-4.3	-2.3	-2.7	0.3	-5.5	0.6	1.2	-1.2	0.6	4.6	3.4	0.9	2.2	-
2012 Q1	-3.8	4.1	2.4	-9.9	-4.2	7.5	-8.7	-4.6	0.2	-3.0	-2.0	-1.1	-1.6	-3.5
2012 Q2	-11.5	-8.1	-8.8	-6.9	-8.0	0.2	-0.4	-5.2	3.2	-4.4	-2.0	-0.6	-1.3	-3.8
2012 Q3	4.5	-1.6	-0.4	7.9	-3.7	-0.4	-7.9	-1.8	2.3	-1.8	-0.5	-2.2	-1.3	-1.6
2012 Q4	-1.6	4.1	2.9	2.6	-4.2	8.5	1.5	1.7	-0.2	-3.0	-2.1	1.1	-0.5	0.8
2013 Q1	-0.8	-0.6	-0.6	-2.7	-3.1	-7.2	1.1	-1.3	-3.5	3.2	0.9	1.0	1.0	-0.4
2013 Q2	4.9	8.7	7.9	-0.4	1.5	-9.2	-0.4	1.8	-2.5	2.4	0.7	2.6	1.7	1.7
2013 Q3	6.0	3.5	3.9	0.2	1.8	-1.0	6.3	3.4	-1.8	3.1	1.5	2.3	1.9	2.8
2013 Q4	10.8	5.9	6.8	4.9	-6.1	-2.4	-2.5	1.3	1.9	0.8	1.1	1.6	1.4	1.3
2014 Q1	9.1	7.1	7.5	-7.7	-0.5	11.8	4.0	2.5	1.6	5.8	4.5	0.1	2.3	2.4
2014 Q2	6.4	3.4	4.0	-3.8	2.7	10.8	0.6	1.7	0.5	-1.2	-0.7	4.4	1.8	1.7
2014 Q3	6.1	7.3	7.0	4.1	1.7	-	0.2	3.4	0.2	2.4	1.7	0.8	1.2	2.6
2014 Q4	-4.5	1.2	-	6.8	0.3	-3.5	1.6	1.5	-1.4	-2.6	-2.3	-1.3	-1.8	0.3
2015 Q1	-7.7	1.2	-0.6	28.7	-4.8	8.2	-1.0	4.6	1.8	-0.7	0.1	-1.1	-0.5	2.7
2015 Q2	-5.9	2.7	1.2	3.4	1.1	-1.5	1.1	1.5	-0.2	4.7	3.2	-5.0	-1.0	0.6
2015 Q3	-15.5	-2.4	-4.6	-1.0	0.3	9.6	-1.8	-1.8	0.6	0.7	0.7	0.7	0.7	-0.9
2015 Q4	-2.0	5.0	4.0	-4.0	0.9	-7.5	3.8	1.1	-2.5	0.2	-0.6	2.1	0.7	1.0
2016 Q1	5.4	7.9	7.5	-3.3	-1.0	-9.7	3.5	2.2	0.2	0.1	0.1	-1.7	-0.7	1.2
2016 Q2	-2.8	0.6	0.1	-5.0	4.7	7.4	2.8	0.6	-3.0	2.2	0.6	2.4	1.5	0.9
2016 Q3	3.6	1.2	1.6	-0.1	-0.8	-5.2	1.1	0.5	-8.2	1.9	-1.0	-2.9	-1.9	-0.3
2016 Q4	2.1	2.4	2.4	1.2	-1.7	-3.0	-0.2	0.7	1.2	3.5	2.9	0.3	1.7	1.0
2017 Q1	5.0	1.0	1.5	2.3	2.2	-15.1	3.4	1.6	-2.5	2.2	1.0	-0.8	0.1	1.1

Users of these data should note that there may be instances where the period on period growths for the same component differ between tables. This is due to the growth rates being calculated at a higher precision than 1 dp within the production system. This accuracy is truncated when transferred into the published tables.

3B.A CONSTRUCTION OUTPUT: VOLUME SEASONALLY ADJUSTED PERCENTAGE CHANGE ON SAME PERIOD A YEAR EARLIER BY SECTOR

Index 2013 = 100

	New Housing			Other New Work				Repair and Maintenance					All Repair and Maintena- nce	All Work
	Public housing	Private housing	Total new housing	Infrastr- ucture	Excluding Infrastructure			All new work	Housing			Non housing R&M		
					Public	Private industri- al	Private commerci- al		Public housing	Private housing	Total housing			
	MV5H	MV5I	MVM3	MV5J	MV5K	MV5L	MV5M	MV5N	MV5O	MV5P	MV5Q	MV5R	MV5S	MV5T
1998	-19.0	1.0	-1.2	-2.8	5.4	1.9	8.4	2.6	-6.6	2.1	-1.5	1.1	-0.2	1.5
1999	-13.3	-10.0	-10.3	-2.8	12.6	3.2	12.0	3.0	-4.1	-1.2	-2.4	-0.6	-1.5	1.3
2000	25.5	11.7	12.9	-6.2	-5.3	-10.7	0.8	0.2	-3.2	0.5	-1.0	5.3	2.1	0.9
2001	2.3	-6.7	-5.8	7.1	0.9	2.2	-0.7	-0.1	-5.4	4.4	0.7	9.2	4.9	1.8
2002	13.2	9.0	9.4	13.1	26.5	-20.7	3.3	6.1	-5.1	8.3	3.4	6.6	5.1	5.7
2003	13.8	24.8	23.6	-5.7	25.5	5.6	-3.6	6.0	13.1	-2.3	2.7	2.8	2.8	4.8
2004	20.1	21.5	21.4	-12.7	12.3	3.0	10.3	9.5	9.7	-2.9	1.4	-4.4	-1.7	5.3
2005	-5.9	2.9	2.0	-4.1	-10.0	-2.0	-4.3	-2.9	-0.6	-8.9	-6.0	2.6	-1.6	-2.4
2006	17.9	0.3	1.9	-7.8	-8.1	8.4	8.5	2.6	-4.3	-6.2	-5.5	0.2	-2.5	0.8
2007	15.5	-1.6	0.2	-1.4	-1.7	-2.4	10.1	3.5	-5.3	-2.5	-3.5	2.3	-0.4	2.2
2008	-9.6	-22.4	-20.8	11.2	11.2	-22.6	1.2	-5.3	2.9	1.1	1.7	3.3	2.6	-2.6
2009	2.0	-31.3	-26.6	14.5	21.0	-29.8	-25.1	-15.3	-2.7	-12.6	-9.3	-9.7	-9.5	-13.2
2010	56.5	21.4	28.2	27.3	31.9	10.9	-2.1	16.3	8.6	9.5	9.4	-14.5	-3.1	8.5
2011	2.2	9.0	7.4	8.4	-7.6	-9.5	2.4	2.4	-8.1	0.8	-2.2	6.7	1.9	2.2
2012	-16.3	-2.4	-5.5	-10.6	-21.0	9.5	-9.8	-9.9	2.2	-4.9	-2.7	-0.4	-1.6	-6.9
2013	6.6	9.4	8.9	2.3	-9.6	-9.2	-	1.0	-4.1	2.3	0.2	4.2	2.1	1.5
2014	30.7	23.6	25.0	-3.6	-1.1	14.1	6.1	9.3	1.6	8.2	6.1	6.6	6.3	8.1
2015	-18.1	8.7	3.3	37.9	-1.9	9.6	1.3	8.5	0.5	2.0	1.6	-3.5	-1.0	4.9
2016	-6.4	13.2	10.0	-9.2	2.8	-9.5	8.5	3.5	-7.3	5.3	1.5	-0.7	0.4	2.4

Users of these data should note that there may be instances where the period on period growths for the same component differ between tables. This is due to the growth rates being calculated at a higher precision than 1 dp within the production system. This accuracy is truncated when transferred into the published tables.

3B.Q**CONSTRUCTION OUTPUT: VOLUME SEASONALLY ADJUSTED
PERCENTAGE CHANGE ON SAME PERIOD A YEAR EARLIER**

Index 2013 = 100

	New Housing			Other New Work				Repair and Maintenance					All Repair and Maintena- nce	All Work
	Public housing	Private housing	Total new housing	Infra- struc- ture	Excluding Infrastructure			All new work	Housing			Non housing R&M		
					Public	Private industri- al	Private commerci- al		Public housing	Private housing	Total housing			
	MV68	MV69	MVM8	MV6A	MV6B	MV6C	MV6D	MV6E	MV6F	MV6G	MV6H	MV6I	MV6J	MV6K
2002 Q2	4.9	3.5	3.7	9.4	24.1	-27.1	4.7	3.7	-7.7	5.7	0.8	5.0	3.0	3.4
Q3	15.7	8.6	9.4	16.5	29.1	-22.5	6.0	7.9	-4.6	11.6	5.7	7.2	6.5	7.4
Q4	5.4	15.6	14.4	12.8	26.0	-13.9	1.0	7.2	-3.7	17.1	9.4	3.8	6.4	6.9
2003 Q1	6.3	20.5	18.9	1.2	25.2	-0.3	-3.8	5.4	-1.4	-1.6	-1.7	1.7	0.2	3.5
Q2	13.2	24.9	23.6	-2.7	24.3	6.1	-5.0	5.7	12.1	2.7	5.8	4.8	5.3	5.5
Q3	12.9	24.8	23.5	-12.6	23.9	4.3	-5.2	3.8	25.2	-2.0	6.7	5.0	5.8	4.5
Q4	22.7	28.5	27.9	-8.3	28.3	12.4	-0.6	9.2	16.8	-7.8	-	-0.2	-0.1	5.7
2004 Q1	28.6	30.3	30.1	-12.7	28.0	12.4	10.4	13.7	27.1	9.9	15.8	1.9	8.2	11.7
Q2	26.7	28.3	28.2	-12.4	18.9	8.0	14.3	13.7	10.6	-8.3	-2.0	-6.4	-4.3	6.8
Q3	19.0	19.9	19.8	-11.4	8.3	1.2	12.2	9.5	-1.3	-4.3	-3.4	-9.1	-6.4	3.5
Q4	8.0	10.1	9.9	-14.4	-2.4	-8.2	4.6	1.7	5.6	-7.6	-3.1	-3.9	-3.5	-0.2
2005 Q1	-5.2	4.3	3.3	-7.7	-7.5	-10.8	-2.2	-2.5	3.0	-11.1	-6.3	-0.2	-3.1	-2.8
Q2	-9.4	5.3	3.8	-8.6	-9.6	-3.5	-5.1	-3.3	5.8	-7.0	-2.6	4.8	1.2	-1.7
Q3	-10.2	2.1	0.8	-3.6	-12.0	0.9	-6.6	-4.1	-3.3	-9.9	-7.6	5.3	-1.0	-3.0
Q4	1.2	0.1	0.2	4.4	-11.2	6.4	-3.5	-1.6	-8.0	-7.4	-7.7	0.6	-3.4	-2.2
2006 Q1	10.8	-1.0	0.1	-1.3	-10.3	13.5	2.2	0.5	-11.6	-5.4	-7.7	-4.8	-6.2	-1.9
Q2	18.5	-2.1	-0.3	-6.1	-9.8	7.7	5.1	0.6	-11.9	-4.0	-6.9	1.3	-2.6	-0.5
Q3	26.1	1.0	3.2	-10.4	-6.6	6.0	11.8	3.9	4.4	-8.0	-3.7	-0.6	-2.1	1.8
Q4	16.5	3.4	4.7	-13.3	-5.6	6.7	15.2	5.5	3.8	-7.6	-3.7	5.3	1.1	3.9
2007 Q1	22.5	3.9	5.8	-11.4	-5.3	3.1	12.7	5.1	3.0	-5.3	-2.4	7.0	2.5	4.2
Q2	19.2	0.4	2.4	-2.8	-2.6	3.8	12.7	5.4	-3.7	-2.9	-3.1	-0.2	-1.6	3.0
Q3	12.2	-3.2	-1.5	3.0	-	-3.2	7.8	2.7	-12.8	-2.7	-6.4	2.3	-1.8	1.1
Q4	8.9	-7.3	-5.5	6.9	1.3	-13.0	7.5	1.1	-7.1	1.2	-1.9	0.5	-0.7	0.5
2008 Q1	-5.6	-11.9	-11.2	12.7	7.4	-15.4	8.5	0.6	-6.3	-1.5	-3.3	2.2	-0.4	0.3
Q2	-8.8	-18.5	-17.3	14.9	10.0	-23.9	2.4	-3.8	7.7	0.3	2.8	9.2	6.2	-0.4
Q3	-9.3	-26.1	-24.0	14.4	13.7	-24.4	2.9	-5.1	9.3	0.9	3.7	5.8	4.8	-1.7
Q4	-14.9	-34.0	-31.6	3.1	13.8	-27.6	-8.6	-13.1	2.1	4.8	3.9	-3.7	-0.1	-8.7
2009 Q1	-16.9	-38.9	-36.1	1.2	9.1	-36.7	-19.4	-19.9	-5.1	-8.8	-7.6	-10.1	-9.0	-16.1
Q2	-11.8	-35.3	-32.1	6.3	15.5	-34.0	-21.5	-17.5	-7.2	-14.7	-12.1	-15.7	-14.1	-16.2
Q3	6.4	-30.7	-25.2	10.8	23.5	-29.9	-29.8	-16.8	1.6	-4.9	-2.7	-5.5	-4.2	-12.2
Q4	34.0	-15.8	-7.9	40.7	34.9	-15.4	-30.3	-6.0	-0.2	-21.3	-14.4	-7.2	-10.7	-7.8
2010 Q1	70.2	4.2	15.1	50.2	48.3	1.3	-16.1	11.0	13.3	-2.5	2.9	-18.9	-8.5	3.2
Q2	69.4	19.3	28.2	44.2	43.1	11.3	-8.3	17.6	13.9	9.7	11.3	-10.8	-0.2	10.5
Q3	59.9	35.2	40.4	27.6	24.3	32.0	8.4	23.0	2.9	9.7	7.5	-18.7	-6.2	11.0
Q4	34.4	28.3	29.7	-2.8	17.3	0.4	12.2	13.7	5.2	22.2	16.0	-9.2	2.8	9.4
2011 Q1	18.1	20.1	19.6	1.4	6.5	-6.2	1.6	6.5	-5.5	9.8	4.3	10.5	7.2	6.7
Q2	8.3	10.1	9.7	6.5	-7.1	-5.3	3.1	3.1	-9.2	0.6	-2.8	2.7	-0.3	1.9
Q3	-6.5	4.8	2.1	7.3	-10.6	-21.3	-0.8	-1.4	-10.1	-6.0	-7.3	7.7	-0.5	-1.1
Q4	-8.6	2.9	0.2	19.5	-18.4	-2.6	6.0	1.6	-7.6	-	-2.5	6.4	1.6	1.6
2012 Q1	-15.7	5.0	0.1	-5.3	-22.7	8.7	-2.0	-5.6	-2.7	0.4	-0.6	2.4	0.8	-3.3
Q2	-21.9	-4.4	-8.3	-19.9	-22.3	5.3	-6.4	-12.0	-0.3	-3.3	-2.3	2.0	-0.3	-7.8
Q3	-14.8	-8.1	-9.5	-9.3	-19.7	7.9	-15.3	-12.2	6.4	-4.8	-1.2	-3.0	-2.1	-8.6
Q4	-12.4	-2.0	-4.3	-7.1	-18.7	16.4	-15.0	-9.7	5.5	-11.8	-6.4	-2.8	-4.6	-7.9
2013 Q1	-9.7	-6.4	-7.1	0.3	-17.8	0.5	-5.9	-6.6	1.6	-6.1	-3.6	-0.7	-2.2	-4.9
Q2	7.0	10.7	9.9	7.4	-9.2	-8.8	-5.9	0.4	-4.0	0.6	-0.9	2.5	0.8	0.5
Q3	8.5	16.3	14.8	-0.3	-4.1	-9.4	8.6	5.6	-7.8	5.7	1.0	7.2	4.1	5.0
Q4	22.1	18.3	19.1	1.9	-6.0	-18.5	4.3	5.3	-5.9	9.8	4.3	7.7	6.0	5.5
2014 Q1	34.4	27.5	28.8	-3.4	-3.5	-1.8	7.3	9.3	-0.9	12.5	8.0	6.8	7.4	8.6
Q2	36.3	21.4	24.2	-6.8	-2.4	19.8	8.4	9.2	2.1	8.6	6.5	8.6	7.6	8.5
Q3	36.4	25.8	27.9	-3.1	-2.5	20.9	2.2	9.2	4.3	7.8	6.7	7.0	6.8	8.3
Q4	17.7	20.2	19.7	-1.3	4.2	19.5	6.6	9.5	0.9	4.1	3.1	3.9	3.5	7.2
2015 Q1	-0.5	13.6	10.7	37.6	-0.3	15.6	1.4	11.7	1.1	-2.2	-1.2	2.7	0.7	7.5
Q2	-12.0	12.8	7.7	48.0	-1.8	2.8	1.9	11.5	0.4	3.6	2.6	-6.5	-2.0	6.3
Q3	-30.0	2.6	-4.0	40.7	-3.1	12.7	-0.2	5.9	0.8	1.9	1.6	-6.6	-2.5	2.7
Q4	-28.1	6.5	-0.2	26.5	-2.5	8.0	2.0	5.4	-0.4	4.9	3.3	-3.4	-0.1	3.4
2016 Q1	-17.8	13.6	7.9	-4.9	1.4	-9.9	6.6	3.0	-1.9	5.8	3.4	-4.0	-0.3	1.8
Q2	-15.1	11.2	6.8	-12.7	4.9	-1.7	8.5	2.1	-4.7	3.2	0.8	3.5	2.1	2.1
Q3	4.0	15.4	13.7	-11.9	3.7	-15.0	11.7	4.6	-13.0	4.4	-0.9	-0.2	-0.5	2.7
Q4	8.4	12.5	11.9	-7.1	1.1	-10.8	7.4	4.1	-9.7	7.8	2.6	-1.9	0.4	2.8
2017 Q1	7.9	5.3	5.6	-1.7	4.4	-16.2	7.4	3.5	-12.1	10.1	3.5	-1.0	1.3	2.8

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riod on period growths for the same component differ between tables. This
is due to the growth rates being calculated at a higher precision than 1 dp
within the production system. This accuracy is truncated when transferred
into the published tables.

4A.A CONSTRUCTION OUTPUT: VALUE SEASONALLY ADJUSTED CURRENT PRICES BY SECTOR

£ million

	New Housing			Other New Work				Repair and Maintenance								All Repair and Mainte- nance	All Work
	Public housing	Private housing	Total new housing	Infra- structure	Excluding Infrastructure			All new work	Housing			Other Work					
					Public	Private industr- ial	Private commerc- ial		Public housing	Private housing	Total housing	Infra- structure	Public	Private			
	MVM9	MVN2	MVN3	MVN4	MVN5	MVN6	MVN7	MVN8	MVN9	MVNM	MVO2	N42T	N42U	N42V	MVO4	MVO5	
1997	1 028	7 559	8 587	7 953	3 063	4 536	12 631	36 770	5 229	7 460	12 689	-	4 669	6 862	24 220	60 990	
1998	881	8 146	9 027	7 703	3 343	4 893	14 747	39 713	5 110	7 890	13 000	-	4 778	7 334	25 112	64 825	
1999	824	8 079	8 903	7 610	3 907	5 030	17 713	43 163	5 059	7 990	13 049	-	4 882	7 487	25 418	68 581	
2000	1 075	9 475	10 550	7 941	3 863	4 717	18 608	45 679	5 104	8 358	13 462	-	5 158	8 412	27 032	72 711	
2001	1 174	9 639	10 813	8 814	4 253	4 709	19 988	48 577	5 164	8 870	14 034	-	5 541	9 808	29 383	77 960	
2002	1 411	11 453	12 864	10 033	5 517	4 323	22 220	54 957	4 974	10 255	15 229	-	6 065	10 969	32 263	87 220	
2003	1 706	15 017	16 723	9 333	7 280	4 765	22 893	60 994	5 781	11 146	16 927	-	7 168	12 169	36 264	97 258	
2004	2 210	18 977	21 187	8 243	8 638	5 210	25 509	68 787	6 414	11 951	18 365	-	7 215	12 291	37 871	106 658	
2005	2 251	20 715	22 966	8 241	8 362	5 610	26 325	71 504	6 642	12 276	18 918	-	8 044	13 027	39 989	111 493	
2006	2 853	21 765	24 618	8 178	8 047	6 308	30 121	77 272	6 819	12 568	19 387	-	7 868	13 794	41 049	118 321	
2007	3 480	22 146	25 626	8 642	8 347	6 438	34 404	83 457	6 885	13 476	20 361	-	7 439	15 807	43 607	127 064	
2008	3 299	18 138	21 437	9 715	9 988	5 339	35 190	81 669	7 467	14 708	22 175	-	8 635	16 165	46 975	128 644	
2009	3 327	12 592	15 919	10 738	11 857	3 515	25 558	67 587	7 417	13 283	20 700	-	8 631	14 165	43 496	111 083	
2010	4 891	14 839	19 730	13 538	14 372	3 550	23 712	74 902	7 873	14 406	22 279	6 841	5 072	8 290	42 482	117 384	
2011	4 919	16 398	21 317	15 321	13 306	3 364	24 275	77 584	7 224	15 159	22 383	8 030	5 044	8 963	44 420	122 005	
2012	4 027	16 235	20 262	14 103	10 795	3 718	22 485	71 363	7 613	15 070	22 683	8 084	4 962	9 191	44 921	116 284	
2013	4 334	18 119	22 453	15 112	10 227	3 538	23 587	74 917	7 518	16 132	23 650	8 375	5 341	9 703	47 069	121 986	
2014	5 850	23 807	29 657	14 747	10 295	4 142	26 124	84 965	7 751	18 012	25 763	9 154	5 834	10 352	51 103	136 068	
2015	4 882	26 283	31 165	20 882	10 475	4 690	27 157	94 369	7 882	18 476	26 358	8 460	4 819	11 035	50 672	145 040	
2016	4 718	30 627	35 345	19 509	11 091	4 400	30 304	100 650	7 369	19 641	27 010	8 059	4 704	11 553	51 326	151 976	

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4A CONSTRUCTION OUTPUT: VALUE NON-SEASONALLY ADJUSTED CURRENT PRICES BY SECTOR

£ million

	New Housing			Other New Work				Repair and Maintenance				Other Work		All Repair and Mainte- ance	All Work	
	Public housing	Private housing	Total new housing	Excluding Infrastructure			Housing				Public	Private				
				Infra- structure	Public	Private indusr- ial	Private commerc- ial	All new work	Public housing	Private housing			Total housing			Infra- structure
	MV6L	MV6M	MVM5	MV6N	MV6O	MV6P	MV6Q	MV6R	MV6S	MV6T	MV6V	MV6W	MV6X	MV6Y	MV6Z	MV72
1997	1 028	7 559	8 587	7 953	3 063	4 536	12 631	36 770	5 229	7 460	12 689	-	4 669	6 862	24 220	60 990
1998	881	8 146	9 027	7 703	3 343	4 893	14 747	39 713	5 110	7 890	13 000	-	4 778	7 334	25 112	64 825
1999	824	8 079	8 903	7 610	3 907	5 030	17 713	43 163	5 059	7 990	13 049	-	4 882	7 487	25 418	68 581
2000	1 075	9 475	10 550	7 941	3 863	4 717	18 608	45 679	5 104	8 358	13 462	-	5 158	8 412	27 032	72 711
2001	1 174	9 639	10 813	8 814	4 253	4 709	19 988	48 577	5 164	8 870	14 034	-	5 541	9 808	29 383	77 960
2002	1 411	11 453	12 864	10 033	5 517	4 323	22 220	54 957	4 974	10 255	15 229	-	6 065	10 969	32 263	87 220
2003	1 706	15 017	16 723	9 333	7 280	4 765	22 893	60 994	5 781	11 146	16 927	-	7 168	12 169	36 264	97 258
2004	2 210	18 977	21 187	8 243	8 638	5 210	25 509	68 787	6 414	11 951	18 365	-	7 215	12 291	37 871	106 658
2005	2 251	20 715	22 966	8 241	8 362	5 610	26 325	71 504	6 642	12 276	18 918	-	8 044	13 027	39 989	111 493
2006	2 853	21 765	24 618	8 178	8 047	6 308	30 121	77 272	6 819	12 568	19 387	-	7 868	13 794	41 049	118 321
2007	3 480	22 146	25 626	8 642	8 347	6 438	34 404	83 457	6 885	13 476	20 361	-	7 439	15 807	43 607	127 064
2008	3 299	18 138	21 437	9 715	9 988	5 339	35 190	81 669	7 467	14 708	22 175	-	8 635	16 165	46 975	128 644
2009	3 327	12 592	15 919	10 738	11 857	3 515	25 558	67 587	7 417	13 283	20 700	-	8 631	14 165	43 496	111 083
2010	4 893	14 839	19 732	13 540	14 372	3 551	23 710	74 905	7 871	14 405	22 276	6 841	5 074	8 290	42 480	117 385
2011	4 919	16 398	21 317	15 321	13 306	3 364	24 275	77 584	7 224	15 159	22 383	7 762	5 044	8 963	44 152	121 737
2012	4 027	16 235	20 262	14 103	10 795	3 718	22 485	71 363	7 613	15 070	22 683	7 815	4 962	9 191	44 651	116 014
2013	4 334	18 119	22 453	15 112	10 227	3 538	23 587	74 917	7 518	16 132	23 650	8 096	5 341	9 703	46 789	121 706
2014	5 782	23 622	29 405	15 384	10 360	4 201	25 944	85 294	7 784	17 969	25 753	8 809	5 513	10 642	50 717	136 011
2015	4 891	26 299	31 191	20 489	10 530	4 734	26 990	93 933	7 910	18 510	26 420	8 496	4 867	11 077	50 861	144 794
2016	4 687	30 457	35 144	19 083	11 180	4 486	29 848	99 741	7 400	19 684	27 084	7 996	4 829	11 628	51 537	151 278

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5 CONSTRUCTION OUTPUT: VALUE NON-SEASONALLY ADJUSTED CURRENT PRICES BY TYPE OF WORK

£ million

		2014	2014	2014	2014	2015	2015	2015	2015	2016	2016	2016	2016	2017
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
PUBLIC HOUSING	MV6L	1 280	1 487	1 535	1 480	1 313	1 359	1 117	1 102	1 084	1 193	1 183	1 227	1 212
PRIVATE HOUSING	MV6M	5 049	5 963	6 249	6 362	5 850	6 925	6 571	6 954	6 814	7 894	7 727	8 023	7 480
INFRASTRUCTURE														
Water	MV73	264	229	207	167	184	234	230	221	174	208	236	249	237
Sewerage	MV74	101	92	101	115	131	135	275	435	475	471	446	419	349
Electricity	MV75	1 136	1 270	1 443	1 615	1 898	2 081	2 222	2 158	2 066	2 049	2 031	2 043	1 978
Roads	MV76	670	699	817	951	1 277	1 481	1 513	1 413	1 258	1 189	1 153	1 147	1 045
Railways	MV77	975	904	821	791	836	766	672	604	555	554	585	674	720
Harbours	MV78	177	185	202	224	260	264	249	221	183	163	145	160	175
Other ¹	MV79	349	320	297	262	251	201	153	124	92	86	119	153	168
TOTAL	MV6N	3 673	3 700	3 887	4 124	4 838	5 162	5 312	5 176	4 803	4 720	4 715	4 845	4 672
of which														
public	MV7A	1 367	1 364	1 443	1 592	1 970	2 083	2 008	1 827	1 624	1 564	1 581	1 734	1 729
private	MV7B	2 305	2 335	2 444	2 533	2 867	3 079	3 304	3 349	3 179	3 156	3 134	3 111	2 943
OTHER PUBLIC NON-HOUSING														
Factories	MV7C	20	22	23	19	15	16	18	18	20	28	33	29	27
Warehouses	MV7D	9	8	7	4	2	2	2	2	2	4	6	5	5
Oil, Steel, Coal	MV7E	2	2	2	2	2	2	1	1	-	-	-	-	-
Schools & Colleges	MV7F	878	940	1 066	1 025	907	1 037	1 218	1 164	1 091	1 218	1 293	1 086	956
Universities	MV7G	365	431	514	485	408	411	426	365	323	352	384	353	356
Health	MV7H	431	438	446	398	358	421	504	500	473	523	552	472	418
Offices	MV7I	115	116	127	120	106	122	150	154	157	181	204	184	172
Entertainment	MV7J	185	214	244	225	191	198	202	169	143	169	208	200	209
Garages, Shops	MV7Z	39	44	48	48	45	51	60	57	52	95	143	146	138
Agriculture, Miscellaneous	MV82	257	305	370	361	308	315	327	274	224	244	270	312	364
TOTAL	MV6O	2 301	2 522	2 848	2 690	2 342	2 575	2 909	2 703	2 485	2 815	3 093	2 788	2 646
PRIVATE INDUSTRIAL														
Factories	MV83	479	591	662	602	613	590	676	637	587	681	638	614	502
Warehouses	MV84	401	440	423	421	504	560	615	521	436	527	516	468	362
Oil, Steel, Coal	MV85	65	60	38	19	10	1	2	4	4	4	2	8	11
TOTAL	MV6P	946	1 091	1 123	1 042	1 127	1 151	1 293	1 163	1 027	1 211	1 157	1 091	874
PRIVATE COMMERCIAL														
Schools, Universities	MV86	922	967	1 067	1 079	993	1 065	1 190	1 223	1 171	1 284	1 363	1 299	1 243
Health	MV87	220	250	262	266	256	281	288	272	253	274	289	266	249
Offices	MV88	1 893	2 035	2 210	2 295	2 193	2 362	2 514	2 623	2 611	2 821	2 947	2 839	2 753
Entertainment	MV89	1 337	1 420	1 478	1 448	1 299	1 349	1 391	1 458	1 422	1 508	1 679	1 713	1 861
Garages	MV8A	78	67	62	54	52	60	71	79	80	96	118	126	123
Shops	MV8B	1 261	1 349	1 423	1 389	1 230	1 255	1 264	1 210	1 093	1 153	1 238	1 213	1 126
Agriculture, Miscellaneous	MV8C	347	263	257	245	237	253	265	255	227	234	260	270	273
TOTAL	MV6Q	6 059	6 351	6 758	6 777	6 262	6 625	6 984	7 120	6 857	7 370	7 895	7 726	7 628
TOTAL NEW WORK	MV6R	19 307	21 113	22 399	22 474	21 732	23 799	24 186	24 217	23 070	25 202	25 770	25 700	24 512

6 CONSTRUCTION OUTPUT: VALUE NON-SEASONALLY ADJUSTED CURRENT PRICES BY REGION

£ million

		2015	2015	2015	2016	2016	2016	2016	2017
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
NORTH EAST									
New Housing									
Housing									
Public	MV8D	51	40	37	31	27	21	30	40
Private	MV8E	298	308	333	319	345	308	297	270
Total Housing	N3QP	349	348	370	351	372	329	327	310
Infrastructure	MV8F	262	259	254	229	231	216	255	268
Other New Work									
Excluding Infrastructure									
Public	MV8G	106	122	112	97	102	97	71	58
Private Industrial	MV8H	60	53	40	52	76	75	69	53
Private Commercial	MV8I	186	180	191	190	201	213	199	187
All New Work	MV8J	962	962	968	918	982	930	920	876
Repair and Maintenance									
Housing	MV8K	143	140	150	163	153	164	183	174
Other New Work									
Public	MV8L	17	25	30	35	35	45	37	29
Private	MV8M	71	81	84	79	80	90	74	81
Infrastructure	MV8N	65	72	64	51	55	55	58	49
All Repair and Maintenance	MV8O	296	318	328	328	323	354	352	333
All Work	MV8P	1 258	1 280	1 296	1 246	1 305	1 284	1 272	1 209
YORKSHIRE AND THE HUMBER									
New Housing									
Public	MV8Q	149	120	103	79	78	78	77	78
Private	MV8R	521	490	509	501	575	561	564	505
Total Housing	N3QQ	671	609	612	581	653	638	641	583
Infrastructure	MV8S	341	303	280	231	243	270	275	260
Other New Work									
Excluding Infrastructure									
Public	MV8T	147	177	173	160	171	175	150	132
Private Industrial	MV8U	121	148	137	118	126	103	82	53
Private Commercial	MV8V	399	399	387	368	395	453	456	450
All New Work	MV8W	1 678	1 637	1 589	1 457	1 588	1 641	1 605	1 478
Repair and Maintenance									
Housing	MV8X	435	414	426	421	533	567	588	488
Other New Work									
Public	MV8Y	74	87	64	50	58	74	53	58
Private	MV8Z	175	182	186	185	220	241	218	219
Infrastructure	MV92	100	77	54	139	290	328	359	348
All Repair and Maintenance	MV93	784	760	730	795	1 101	1 210	1 218	1 113
All Work	MV94	2 462	2 397	2 319	2 252	2 689	2 851	2 823	2 591
EAST MIDLANDS									
New Housing									
Public	MV95	55	47	47	42	45	47	50	51
Private	MV96	472	419	434	415	475	468	493	446
Total Housing	N3QR	527	466	481	457	520	515	543	497
Infrastructure	MV97	285	377	407	370	350	338	326	316
Other New Work									
Excluding Infrastructure									
Public	MV98	144	186	196	190	198	193	143	110
Private Industrial	MV99	162	178	164	151	171	169	163	132
Private Commercial	MV9A	228	242	261	306	368	397	368	336
All New Work	MV9B	1 347	1 448	1 510	1 474	1 607	1 613	1 543	1 390
Repair and Maintenance									
Housing	MV9C	346	359	331	285	277	299	301	307
Other New Work									
Public	MV9D	67	87	93	76	69	73	61	66
Private	MV9E	154	173	167	177	187	207	201	177
Infrastructure	MV9F	97	123	116	107	119	102	95	94
All Repair and Maintenance	MV9G	664	742	707	645	652	681	658	644
All Work	MV9H	2 011	2 190	2 217	2 119	2 259	2 294	2 201	2 034
EAST OF ENGLAND									
New Housing									
Public	MV9I	106	85	80	75	84	86	90	92
Private	MV9J	477	484	545	550	658	657	710	678
Total Housing	N3QS	583	569	625	625	743	743	800	770
Infrastructure	MV9K	578	567	515	532	541	507	465	454
Other New Work									
Excluding Infrastructure									
Public	MV9L	210	229	202	180	195	205	180	170
Private Industrial	MV9M	75	91	99	101	138	141	142	111
Private Commercial	MV9N	563	635	653	573	599	602	597	606
All New Work	MV9O	2 010	2 090	2 095	2 011	2 216	2 197	2 184	2 111
Repair and Maintenance									
Housing	MV9P	828	921	953	982	1 002	952	964	893
Other New Work									
Public	MV9Q	123	153	121	113	134	169	145	131
Private	MV9R	333	344	322	295	302	323	327	305
Infrastructure	MV9S	333	375	373	253	277	235	221	215
All Repair and Maintenance	MV9T	1 617	1 793	1 769	1 643	1 715	1 679	1 657	1 544
All Work	MV9U	3 627	3 883	3 864	3 654	3 931	3 876	3 841	3 655

6 CONSTRUCTION OUTPUT: VALUE NON-SEASONALLY ADJUSTED CURRENT PRICES BY REGION

continued

£ million

		2015	2015	2015	2016	2016	2016	2016	2017
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
LONDON									
New Housing									
Public	MV9V	413	312	300	333	403	416	437	406
Private	MV9W	1 738	1 606	1 640	1 567	1 743	1 710	1 781	1 690
Total Housing	N3QT	2 151	1 918	1 939	1 900	2 146	2 127	2 218	2 096
Infrastructure	MV9X	562	645	729	729	726	693	691	645
Other New Work									
Excluding Infrastructure									
Public	MV9Y	396	454	460	463	556	621	546	491
Private Industrial	MV9Z	56	94	104	88	90	67	49	31
Private Commercial	MVA2	2 280	2 388	2 530	2 486	2 679	2 771	2 572	2 487
All New Work	MVA3	5 446	5 499	5 761	5 666	6 198	6 278	6 076	5 750
Repair and Maintenance									
Housing	MVA4	1 269	1 296	1 286	1 225	1 230	1 253	1 307	1 293
Other New Work									
Public	MVA5	243	335	306	284	270	313	234	263
Private	MVA6	438	464	481	500	491	500	483	499
Infrastructure	MVA7	426	294	314	326	291	310	312	295
All Repair and Maintenance	MVA8	2 376	2 389	2 387	2 335	2 282	2 376	2 336	2 350
All Work	MVA9	7 822	7 888	8 148	8 001	8 480	8 654	8 412	8 100
SOUTH EAST									
New Housing									
Public	MVB2	110	94	96	91	96	92	97	97
Private	MVB3	868	840	900	885	1 020	978	990	916
Total Housing	N3QU	978	934	996	976	1 115	1 070	1 087	1 012
Infrastructure	MVB4	660	717	703	621	577	586	625	616
Other New Work									
Excluding Infrastructure									
Public	MVB5	360	413	390	360	438	526	480	446
Private Industrial	MVB6	158	178	148	114	128	112	100	89
Private Commercial	MVB7	710	737	731	712	780	836	836	837
All New Work	MVB8	2 865	2 980	2 969	2 783	3 038	3 129	3 128	3 001
Repair and Maintenance									
Housing	MVB9	1 275	1 342	1 323	1 248	1 277	1 316	1 368	1 318
Other New Work									
Public	MVBN	175	217	200	226	198	249	191	196
Private	MVC2	419	466	478	393	371	422	425	417
Infrastructure	MVC3	255	225	203	225	232	205	221	228
All Repair and Maintenance	MVC4	2 124	2 250	2 204	2 092	2 078	2 192	2 205	2 159
All Work	MVC5	4 989	5 230	5 173	4 875	5 116	5 321	5 333	5 160
SOUTH WEST									
New Housing									
Public	MVC6	52	51	69	81	88	81	71	70
Private	MVC7	649	599	619	612	721	702	717	639
Total Housing	N3QV	701	650	688	692	809	782	788	709
Infrastructure	MVC8	358	349	317	278	273	261	244	212
Other New Work									
Excluding Infrastructure									
Public	MVC9	174	176	149	128	162	212	297	375
Private Industrial	MVD2	58	66	55	47	81	110	115	88
Private Commercial	MVD3	376	409	406	380	401	421	443	448
All New Work	MVD4	1 667	1 651	1 615	1 526	1 727	1 785	1 888	1 832
Repair and Maintenance									
Housing	MVD5	574	620	636	585	594	583	601	676
Other New Work									
Public	MVD6	82	112	109	94	79	93	80	74
Private	MVD7	157	169	192	204	232	231	211	189
Infrastructure	MVD8	169	152	141	173	193	159	151	156
All Repair and Maintenance	MVD9	982	1 053	1 078	1 056	1 098	1 066	1 043	1 095
All Work	MVDD	2 649	2 704	2 693	2 582	2 825	2 851	2 931	2 927
WALES									
New Housing									
Public	MVE2	35	30	31	29	31	31	34	35
Private	MVE3	169	165	187	194	237	246	250	230
Total Housing	N3QW	204	195	218	223	269	278	283	265
Infrastructure	MVE4	359	360	343	355	370	373	375	338
Other New Work									
Excluding Infrastructure									
Public	MVE5	172	170	136	110	117	133	122	140
Private Industrial	MVE6	38	47	43	35	38	31	25	19
Private Commercial	MVE7	128	129	134	153	177	217	224	285
All New Work	MVE8	902	902	874	877	971	1 033	1 029	1 048
Repair and Maintenance									
Housing	MVE9	221	239	246	239	264	272	264	200
Other New Work									
Public	MVF2	30	41	32	32	37	36	28	35
Private	MVF3	49	60	55	58	56	50	51	51
Infrastructure	MVF4	73	100	98	77	80	66	65	59
All Repair and Maintenance	MVF5	373	440	431	406	437	424	408	345
All Work	MVF6	1 275	1 342	1 305	1 283	1 408	1 457	1 437	1 393

6 CONSTRUCTION OUTPUT: VALUE NON-SEASONALLY ADJUSTED CURRENT PRICES BY REGION

continued

£ million

		2015	2015	2015	2016	2016	2016	2016	2017
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
WEST MIDLANDS									
New Housing									
Public	MVF7	101	76	69	72	85	88	92	90
Private	MVF8	488	477	533	539	657	660	734	702
Total Housing	N3QX	589	553	603	610	742	747	826	792
Infrastructure	MVF9	200	203	187	162	182	201	237	237
Other New Work									
Excluding Infrastructure									
Public	MVFB	163	173	155	143	160	166	142	135
Private Industrial	MVG2	123	142	144	134	165	176	175	146
Private Commercial	MVG3	571	605	572	522	558	647	712	712
All New Work	MVG4	1 646	1 676	1 660	1 571	1 808	1 939	2 092	2 022
Repair and Maintenance									
Housing									
Public	MVG5	426	454	427	392	384	391	440	496
Other New Work									
Public	MVG6	98	129	116	83	77	92	90	80
Private	MVG7	410	396	396	360	346	359	349	351
Infrastructure	MVG8	134	117	80	81	101	107	117	126
All Repair and Maintenance	MVG9	1 068	1 096	1 019	916	908	949	996	1 053
All Work	MVGO	2 714	2 772	2 679	2 487	2 716	2 888	3 088	3 075
NORTH WEST									
New Housing									
Public	MVH2	121	106	101	88	86	84	91	94
Private	MVH3	808	774	819	799	943	918	958	930
Total Housing	N3QY	929	880	920	888	1 029	1 002	1 049	1 023
Infrastructure	MVH4	475	488	485	459	450	543	621	632
Other New Work									
Excluding Infrastructure									
Public	MVH5	331	371	322	265	259	254	206	181
Private Industrial	MVH6	221	225	175	139	137	107	98	82
Private Commercial	MVH7	578	605	606	572	594	640	629	641
All New Work	MVH8	2 534	2 569	2 507	2 322	2 469	2 546	2 604	2 560
Repair and Maintenance									
Housing									
Public	MVH9	583	581	566	535	543	530	563	559
Other New Work									
Public	MVI2	82	107	93	96	99	138	119	115
Private	MVI3	268	297	318	309	329	374	403	361
Infrastructure	MVI4	243	287	272	207	173	153	172	203
All Repair and Maintenance	MVI5	1 176	1 272	1 249	1 147	1 144	1 195	1 257	1 238
All Work	MVI6	3 710	3 841	3 756	3 469	3 613	3 741	3 861	3 798
SCOTLAND									
New Housing									
Public	MVI7	165	157	171	163	169	160	159	160
Private	MVI8	436	410	434	432	519	519	528	475
Total Housing	N3QZ	601	566	605	595	688	679	688	634
Infrastructure	MVI9	1 083	1 044	956	838	776	727	731	693
Other New Work									
Excluding Infrastructure									
Public	MVIJ	373	437	408	389	455	511	451	407
Private Industrial	MVJ2	79	70	54	48	61	65	72	71
Private Commercial	MVJ3	606	654	648	595	618	698	690	640
All New Work	MVJ4	2 742	2 772	2 671	2 464	2 600	2 680	2 632	2 445
Repair and Maintenance									
Housing									
Public	MVJ5	446	470	484	461	447	469	468	448
Other New Work									
Public	MVJ6	71	94	81	82	85	109	90	100
Private	MVJ7	210	245	258	244	233	228	211	200
Infrastructure	MVJ8	206	254	251	264	291	255	244	251
All Repair and Maintenance	MVJ9	933	1 063	1 074	1 051	1 056	1 061	1 013	999
All Work	MVK2	3 675	3 835	3 745	3 515	3 656	3 741	3 645	3 444

3MOYSA CONSTRUCTION OUTPUT: VOLUME SEASONALLY ADJUSTED PERCENTAGE CHANGE 3 MONTHS ON SAME PERIOD A YEAR EARLIER

Index 2013 = 100

	New Housing				Other New Work			Repair and Maintenance						
	Public housing	Private housing	Total new housing	Infra-structure	Excluding Infrastructure			All new work	Housing			Non housing R&M	All Repair and Maintenance	All Work
					Public	Private industrial	Private commercial		Public housing	Private housing	Total housing			
	N3P7	N3P8	N3P9	N3PA	N3PB	N3PC	N3PD	N3PE	N3PF	N3PG	N3PH	N3PI	N3PJ	N3PK
2011 Mar	18.1	20.1	19.6	1.4	6.5	-6.2	1.6	6.5	-5.5	9.8	4.3	10.5	7.2	6.7
Apr	10.8	12.8	12.3	2.9	0.2	-5.6	1.8	4.0	-2.2	6.8	3.7	8.1	5.7	4.6
May	10.9	9.5	9.8	4.6	-5.5	-4.3	2.7	3.0	-4.4	4.0	1.1	6.9	3.8	3.3
Jun	8.3	10.1	9.7	6.5	-7.1	-5.3	3.1	3.1	-9.2	0.6	-2.8	2.7	-0.3	1.9
Jul	2.4	11.5	9.4	8.2	-7.2	-13.4	1.6	2.4	-10.7	-2.4	-5.3	5.0	-0.5	1.4
Aug	-3.9	10.2	6.9	6.8	-8.8	-21.6	-0.4	0.1	-10.3	-3.9	-6.1	5.4	-0.8	-0.2
Sep	-6.5	4.8	2.1	7.3	-10.6	-21.3	-0.8	-1.4	-10.1	-6.0	-7.3	7.7	-0.5	-1.1
Oct	-7.1	0.4	-1.3	5.1	-15.8	-13.5	0.5	-2.9	-9.8	-4.8	-6.4	4.4	-1.4	-2.4
Nov	-6.2	-0.4	-1.8	9.1	-18.9	-3.9	3.6	-1.5	-9.2	-2.5	-4.7	4.4	-0.5	-1.1
Dec	-8.6	2.9	0.2	19.5	-18.4	-2.6	6.0	1.6	-7.6	-	-2.5	6.4	1.6	1.6
2012 Jan	-7.2	5.5	2.5	18.3	-17.7	-3.0	4.1	1.6	-3.3	-1.0	-1.8	5.4	1.6	1.6
Feb	-10.3	6.6	2.6	10.2	-18.8	1.0	1.6	-0.6	-2.5	-0.3	-1.0	5.1	1.9	0.3
Mar	-15.7	5.0	0.1	-5.3	-22.7	8.7	-2.0	-5.6	-2.7	0.4	-0.6	2.4	0.8	-3.3
Apr	-18.9	3.1	-2.1	-11.8	-22.9	12.2	-3.5	-7.7	-4.9	-	-1.6	2.6	0.4	-4.8
May	-21.1	1.0	-4.2	-16.9	-21.2	11.0	-3.2	-8.9	-1.8	-	-0.6	2.1	0.7	-5.4
Jun	-21.9	-4.4	-8.3	-19.9	-22.3	5.3	-6.4	-12.0	-0.3	-3.3	-2.3	2.0	-0.3	-7.8
Jul	-19.5	-7.7	-10.3	-21.4	-23.1	5.9	-9.9	-14.0	2.4	-1.1	-	1.1	0.6	-8.8
Aug	-16.6	-10.5	-11.7	-14.5	-22.7	5.5	-13.3	-13.9	2.6	-3.8	-1.7	-1.4	-1.6	-9.5
Sep	-14.8	-8.1	-9.5	-9.3	-19.7	7.9	-15.3	-12.2	6.4	-4.8	-1.2	-3.0	-2.1	-8.6
Oct	-16.9	-4.7	-7.4	-1.7	-16.3	6.9	-15.0	-9.5	7.1	-10.0	-4.6	-3.0	-3.9	-7.5
Nov	-17.1	-1.3	-4.7	-2.7	-15.3	9.7	-15.7	-8.9	7.8	-12.0	-5.9	-0.9	-3.5	-6.9
Dec	-12.4	-2.0	-4.3	-7.1	-18.7	16.4	-15.0	-9.7	5.5	-11.8	-6.4	-2.8	-4.6	-7.9
2013 Jan	-14.0	-4.7	-6.7	-10.4	-22.4	15.4	-12.5	-10.9	3.4	-8.9	-5.1	-2.0	-3.6	-8.2
Feb	-11.0	-5.2	-6.4	-8.6	-22.5	11.9	-8.5	-9.3	2.0	-7.3	-4.3	-2.7	-3.5	-7.2
Mar	-9.7	-6.4	-7.1	0.3	-17.8	0.5	-5.9	-6.6	1.6	-6.1	-3.6	-0.7	-2.2	-4.9
Apr	-4.1	-0.8	-1.4	4.8	-14.4	-4.5	-6.0	-3.9	2.0	-5.5	-3.1	-0.3	-1.7	-3.1
May	0.3	2.1	1.7	6.3	-12.5	-8.5	-7.4	-3.1	-1.8	-4.3	-3.5	0.1	-1.7	-2.6
Jun	7.0	10.7	9.9	7.4	-9.2	-8.8	-5.9	0.4	-4.0	0.6	-0.9	2.5	0.8	0.5
Jul	9.6	12.6	12.0	9.6	-6.1	-10.4	-1.9	3.1	-8.5	0.8	-2.3	3.1	0.3	2.0
Aug	10.9	17.5	16.2	5.5	-4.8	-7.5	3.1	5.5	-7.2	4.3	0.4	6.6	3.4	4.7
Sep	8.5	16.3	14.8	-0.3	-4.1	-9.4	8.6	5.6	-7.8	5.7	1.0	7.2	4.1	5.0
Oct	15.5	17.1	16.8	-1.7	-5.4	-11.6	9.1	5.7	-5.7	10.7	4.9	9.9	7.4	6.4
Nov	20.2	14.9	15.9	-0.9	-5.6	-17.6	7.9	5.0	-7.1	12.0	5.2	7.0	6.1	5.4
Dec	22.1	18.3	19.1	1.9	-6.0	-18.5	4.3	5.3	-5.9	9.8	4.3	7.7	6.0	5.5
2014 Jan	24.2	24.7	24.6	1.3	-2.7	-14.9	3.2	7.1	-2.4	9.8	5.6	7.0	6.3	6.8
Feb	26.9	26.3	26.4	0.7	-2.6	-10.3	4.2	8.1	-1.3	10.6	6.6	7.5	7.0	7.7
Mar	34.4	27.5	28.8	-3.4	-3.5	-1.8	7.3	9.3	-0.9	12.5	8.0	6.8	7.4	8.6
Apr	33.5	22.5	24.6	-5.7	-2.9	5.5	9.5	8.8	-2.8	13.2	7.8	7.2	7.5	8.3
May	35.6	24.1	26.3	-5.6	-2.9	14.0	9.7	9.9	-0.5	11.2	7.3	8.1	7.7	9.1
Jun	36.3	21.4	24.2	-6.8	-2.4	19.8	8.4	9.2	2.1	8.6	6.5	8.6	7.6	8.5
Jul	38.5	23.5	26.3	-6.5	-4.3	22.8	6.7	9.2	5.3	6.5	6.1	7.7	6.9	8.3
Aug	38.2	23.4	26.2	-8.0	-1.8	20.1	4.7	8.5	5.1	7.4	6.7	6.9	6.8	7.9
Sep	36.4	25.8	27.9	-3.1	-2.5	20.9	2.2	9.2	4.3	7.8	6.7	7.0	6.8	8.3
Oct	30.9	23.3	24.8	-4.1	0.1	21.7	0.8	8.1	0.9	7.0	5.1	5.3	5.2	7.0
Nov	22.9	23.4	23.3	-1.5	1.2	22.7	3.1	9.1	1.9	4.3	3.5	5.7	4.6	7.4
Dec	17.7	20.2	19.7	-1.3	4.2	19.5	6.6	9.5	0.9	4.1	3.1	3.9	3.5	7.2
2015 Jan	11.7	17.4	16.3	11.9	1.8	20.9	7.9	11.3	0.3	2.1	1.5	4.0	2.8	8.0
Feb	7.1	14.4	13.0	22.9	1.3	20.8	6.3	11.8	-0.7	-0.7	-0.7	1.9	0.6	7.5
Mar	-0.5	13.6	10.7	37.6	-0.3	15.6	1.4	11.7	1.1	-2.2	-1.2	2.7	0.7	7.5
Apr	-	14.3	11.4	44.0	-1.7	8.9	-0.7	11.7	1.1	-1.5	-0.7	-0.1	-0.4	7.1
May	-6.5	14.1	9.9	47.6	-2.8	3.6	-1.5	11.1	1.6	1.4	1.5	-1.9	-0.2	6.8
Jun	-12.0	12.8	7.7	48.0	-1.8	2.8	1.9	11.5	0.4	3.6	2.6	-6.5	-2.0	6.3
Jul	-21.1	8.9	2.6	45.7	-	6.8	2.9	10.1	1.7	4.6	3.7	-5.7	-1.1	5.8
Aug	-26.6	5.0	-1.6	45.6	-1.7	10.2	3.1	8.5	0.5	2.7	2.0	-7.3	-2.7	4.2
Sep	-30.0	2.6	-4.0	40.7	-3.1	12.7	-0.2	5.9	0.8	1.9	1.6	-6.6	-2.5	2.7
Oct	-31.6	3.4	-3.8	36.5	-4.5	10.1	1.3	5.4	1.3	2.5	2.1	-6.9	-2.5	2.4
Nov	-30.2	3.1	-3.5	28.2	-3.5	11.5	1.0	4.3	-	5.1	3.6	-5.2	-0.9	2.4
Dec	-28.1	6.5	-0.2	26.5	-2.5	8.0	2.0	5.4	-0.4	4.9	3.3	-3.4	-0.1	3.4
2016 Jan	-23.2	7.7	1.9	13.7	0.7	1.0	2.3	4.1	-1.6	5.5	3.3	-2.9	0.1	2.7
Feb	-20.9	13.0	6.7	6.7	2.1	-9.3	4.2	4.7	-0.1	6.0	4.1	-1.0	1.5	3.5
Mar	-17.8	13.6	7.9	-4.9	1.4	-9.9	6.6	3.0	-1.9	5.8	3.4	-4.0	-0.3	1.8
Apr	-21.5	15.0	8.3	-9.0	2.5	-7.0	7.9	2.8	-1.1	4.6	2.9	-1.7	0.6	2.0
May	-18.1	12.0	6.7	-12.0	4.3	-0.8	8.6	2.2	-3.4	3.4	1.3	-1.4	-	1.4
Jun	-15.1	11.2	6.8	-12.7	4.9	-1.7	8.5	2.1	-4.7	3.2	0.8	3.5	2.1	2.1
Jul	-6.7	11.9	8.9	-12.3	4.0	-8.4	8.0	2.4	-8.1	3.0	-0.4	1.5	0.5	1.7
Aug	-0.5	14.1	11.8	-13.2	3.3	-13.4	8.5	2.9	-11.0	3.5	-0.9	1.7	0.4	2.0
Sep	4.0	15.4	13.7	-11.9	3.7	-15.0	11.7	4.6	-13.0	4.4	-0.9	-0.2	-0.5	2.7
Oct	6.6	14.8	13.6	-10.7	2.2	-12.3	11.0	4.7	-13.5	4.2	-1.1	0.8	-0.2	2.9
Nov	7.7	14.6	13.6	-6.5	1.5	-11.8	9.3	5.3	-12.0	5.7	0.4	-1.0	-0.3	3.2
Dec	8.4	12.5	11.9	-7.1	1.1	-10.8	7.4	4.1	-9.7	7.8	2.6	-1.9	0.4	2.8
2017 Jan	6.7	10.5	10.0	-2.9	2.4	-13.2	7.3	4.5	-10.2	10.4	4.3	-3.7	0.4	3.0
Feb	6.5	6.0	6.1	-4.1	2.4	-12.5	7.1	3.0	-10.9	11.2	4.6	-3.4	0.7	2.2
Mar	7.9	5.3	5.6	-1.7	4.4	-16.2	7.4	3.5	-12.1	10.1	3.5	-1.0	1.3	2.8
Apr	12.9	2.7	4.0	-1.1	0.5	-19.7	6.8	2.4	-11.8	9.2	3.0	-1.7	0.7	1.8
May	15.4	2.5	4.2	0.9	-3.1	-24.2	6.0	2.0	-10.6	8.0	2.6	-2.8	-	1.3

Users of these data should note that there may be instances where the period on period growths for the same component differ between tables. This is due to the growth rates being calculated at a higher precision than 1 dp within the production system. This accuracy is truncated when transferred into the published tables.

9A.A CONSTRUCTION OUTPUT: IMPLIED PRICE DEFLATOR NON-SEASONALLY ADJUSTED INDEX NUMBER BY SECTOR

Index 2013 = 100

	New Housing			Other New Work					Repair and Maintenance				All Repair and Maintena- nce	All Work
	Public housing	Private housing	Total new housing	Infrastr- ucture	Excluding Infrastructure			All new work	Housing			Non housing R&M		
					Public	Private industri- al	Private commerci- al		Public housing	Private housing	Total housing			
	MVK3	MVK4	MVM6	MVK5	MVK6	MVK7	MVK8	MVK9	MVKB	MVL2	MVL3	MVL4	MVL5	MVL6
1997	55.9	49.2	50.0	65.8	58.6	60.5	57.2	57.4	59.2	39.4	45.7	58.9	51.3	54.8
1998	59.2	52.6	53.2	65.6	60.7	64.2	61.6	60.4	61.9	40.9	47.2	61.3	53.2	57.4
1999	63.5	57.8	58.3	66.3	62.8	63.7	65.8	63.8	63.6	41.7	48.2	62.6	54.3	59.9
2000	66.2	60.8	61.3	73.9	65.7	67.0	68.8	67.4	66.6	43.6	50.2	65.4	56.9	63.1
2001	70.6	66.2	66.7	76.7	71.5	65.5	74.5	71.9	71.2	44.3	51.5	67.8	59.0	66.4
2002	75.1	72.2	72.5	77.3	73.5	75.9	80.2	76.9	72.3	47.2	53.4	70.6	61.3	70.3
2003	79.6	75.8	76.2	76.1	77.1	79.0	85.7	79.9	74.3	52.6	58.4	77.9	67.5	74.8
2004	85.6	78.6	79.3	76.7	81.3	83.7	86.3	82.0	74.8	57.9	62.9	82.0	71.5	78.0
2005	92.6	83.2	84.1	79.8	87.4	91.6	92.9	87.6	77.9	65.1	69.1	86.2	77.2	83.5
2006	99.1	86.8	88.1	85.7	91.1	94.7	97.5	92.1	83.2	70.8	74.7	88.0	81.2	88.0
2007	104.4	89.5	91.3	91.4	95.7	98.7	100.8	96.1	88.4	77.5	80.9	92.0	86.4	92.5
2008	109.4	94.4	96.5	92.3	102.8	105.7	101.8	99.7	92.9	83.5	86.5	94.8	90.7	96.2
2009	108.2	95.3	97.7	89.2	101.2	99.1	98.6	97.5	95.0	86.4	89.3	96.6	92.9	95.6
2010	102.9	94.1	96.1	87.6	92.8	89.9	92.8	92.6	93.9	87.4	89.6	96.5	92.8	92.7
2011	101.2	95.3	96.6	91.4	92.8	94.0	92.7	93.6	93.8	91.2	92.0	97.4	94.6	94.0
2012	99.5	97.6	98.0	96.2	96.0	97.2	95.8	96.6	97.2	95.7	96.2	98.4	97.3	96.9
2013	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
2014	102.4	104.0	103.7	104.2	102.9	102.6	104.2	103.7	101.5	102.5	102.2	101.0	101.6	102.9
2015	104.9	106.5	106.3	106.4	105.4	104.5	106.7	106.2	102.3	103.4	103.1	102.3	102.8	105.0
2016	108.1	109.8	109.7	107.5	108.4	108.3	109.8	109.0	103.3	104.3	104.1	103.1	103.7	107.1

Users of these data should note that there may be instances where the period on period growths for the same component differ between tables. This is due to the growth rates being calculated at a higher precision than 1 dp within the production system. This accuracy is truncated when transferred into the published tables.

	New Housing			Other New Work				Repair and Maintenance					All Repair and Mainte- nance	All Work
	Public housing	Private housing	Total new housing	Infra- struc- ture	Excluding Infrastructure			All new work	Housing			Non housing R&M		
					Public	Private industi- rial	Private commerci- al		Public housing	Private housing	Total housing			
	MVK3	MVK4	MVM6	MVK5	MVK6	MVK7	MVK8	MVK9	MVKB	MVL2	MVL3	MVL4	MVL5	MVL6
2002 Q2	75.9	73.4	73.7	80.2	73.0	77.4	79.7	77.6	71.3	46.4	52.5	69.9	60.4	70.3
Q3	74.4	72.8	73.0	74.3	73.3	75.0	80.8	76.5	73.7	47.3	53.5	71.8	62.0	70.4
Q4	76.0	73.8	74.1	75.0	74.6	76.3	82.7	77.9	75.0	49.5	55.4	72.4	63.1	71.6
2003 Q1	77.1	74.0	74.3	75.3	75.3	77.1	83.8	78.3	74.5	50.7	57.2	75.5	65.9	73.2
Q2	79.1	75.7	76.1	76.2	76.8	78.8	85.3	79.7	75.0	51.4	57.5	77.0	66.4	74.1
Q3	80.4	76.5	76.9	76.5	77.8	80.1	86.4	80.5	73.8	52.7	58.6	79.7	68.4	75.4
Q4	81.7	76.9	77.4	76.5	78.5	80.1	87.1	81.1	73.7	55.4	60.4	79.5	69.2	76.3
2004 Q1	83.4	77.4	78.0	76.6	79.5	80.1	86.2	81.0	73.9	55.7	61.1	80.5	69.9	76.6
Q2	84.8	78.0	78.7	76.6	80.4	81.5	85.4	81.3	74.2	56.4	61.7	81.3	70.5	77.2
Q3	86.5	79.1	79.8	76.8	81.9	84.9	86.2	82.3	75.4	58.2	63.2	83.2	72.2	78.4
Q4	87.9	79.8	80.6	77.1	83.4	88.2	87.3	83.5	75.8	61.2	65.5	83.1	73.6	79.7
2005 Q1	89.7	81.0	81.9	77.8	85.0	89.9	89.4	84.9	76.9	62.5	67.3	84.3	75.2	81.1
Q2	91.6	82.6	83.4	79.0	86.6	91.5	92.2	86.9	77.9	64.8	69.0	86.7	77.3	83.2
Q3	93.6	84.2	85.0	80.5	88.3	92.4	94.1	88.5	78.3	65.6	69.4	86.8	77.8	84.3
Q4	95.4	85.0	86.0	82.0	89.6	92.7	96.1	89.9	78.4	67.6	70.8	87.1	78.6	85.6
2006 Q1	97.2	86.7	87.8	83.4	90.3	93.0	96.9	91.2	81.3	68.5	72.5	87.7	79.8	86.9
Q2	98.6	86.7	88.0	85.0	90.8	94.3	97.6	91.9	83.8	70.0	74.2	87.9	80.8	87.7
Q3	99.7	86.6	88.0	86.5	91.3	95.4	97.7	92.4	84.1	71.3	75.5	88.2	81.7	88.4
Q4	100.7	87.1	88.5	87.8	92.0	96.0	97.9	93.0	83.4	73.3	76.5	88.4	82.4	89.0
2007 Q1	102.3	88.4	90.0	89.5	93.0	96.6	98.6	94.1	84.7	74.9	78.2	88.5	83.3	90.1
Q2	103.8	89.1	90.9	91.1	94.5	97.7	99.6	95.2	88.7	76.0	79.8	92.3	85.9	91.8
Q3	105.1	89.7	91.6	92.0	96.5	99.2	102.4	97.0	90.0	77.8	81.6	93.5	87.6	93.6
Q4	106.6	90.7	92.6	92.9	98.9	101.4	102.7	98.1	90.1	81.4	84.0	93.7	88.9	94.7
2008 Q1	108.0	92.4	94.4	92.9	100.8	103.6	102.2	98.9	90.0	81.7	84.3	93.9	89.2	95.3
Q2	109.2	93.9	95.9	92.7	102.6	105.6	102.3	99.6	93.1	83.2	86.3	94.8	90.6	96.1
Q3	109.8	95.2	97.3	91.9	103.5	106.6	101.4	99.9	93.7	84.5	87.5	95.2	91.4	96.6
Q4	110.7	96.3	98.4	91.7	104.3	107.1	101.2	100.3	94.7	84.8	87.7	95.5	91.5	96.7
2009 Q1	109.9	96.3	98.6	90.4	104.0	105.0	100.2	99.4	97.2	86.9	90.3	95.4	92.8	96.8
Q2	108.9	95.0	97.4	89.2	102.5	101.2	99.0	97.9	94.3	86.2	88.9	95.7	92.2	95.6
Q3	107.9	94.9	97.6	88.8	100.5	97.2	98.8	97.2	93.7	86.4	88.9	97.7	93.3	95.6
Q4	106.2	94.9	97.3	88.3	97.9	93.0	96.5	95.3	94.8	86.1	89.0	97.6	93.3	94.5
2010 Q1	104.5	93.9	96.3	86.9	94.9	90.1	94.4	93.3	94.1	87.0	89.6	97.2	93.2	93.3
Q2	103.2	94.3	96.2	87.1	92.9	89.1	92.9	92.5	93.7	87.3	89.5	95.9	92.5	92.5
Q3	102.2	94.1	95.9	87.7	91.8	89.6	92.1	92.2	93.8	87.4	89.4	96.2	92.6	92.3
Q4	101.7	94.1	95.8	88.5	91.4	90.7	91.9	92.3	94.0	87.8	89.7	96.7	92.9	92.5
2011 Q1	101.5	94.4	96.0	89.6	91.7	91.2	92.2	92.6	93.0	89.6	90.7	97.0	93.8	93.0
Q2	101.4	94.8	96.2	90.7	92.4	92.7	92.7	93.2	93.3	90.7	91.5	97.1	94.2	93.6
Q3	101.2	95.6	96.8	91.8	93.2	95.1	92.7	93.8	93.7	91.7	92.3	97.6	95.0	94.3
Q4	100.8	96.5	97.4	93.3	94.1	97.0	93.2	94.7	95.3	92.7	93.5	97.8	95.6	95.0
2012 Q1	100.3	97.2	97.8	94.8	94.9	97.6	94.6	95.8	96.3	94.7	95.2	98.8	97.0	96.2
Q2	99.7	97.4	97.8	95.9	95.6	97.2	95.6	96.4	97.1	94.8	95.5	98.6	97.1	96.7
Q3	99.1	97.8	98.1	96.6	96.4	96.8	96.6	97.0	97.3	96.4	96.7	97.9	97.3	97.1
Q4	98.7	98.1	98.2	97.5	97.2	97.0	96.7	97.4	97.9	97.1	97.4	98.2	97.8	97.6
2013 Q1	99.0	98.5	98.6	98.4	98.3	98.2	98.0	98.3	98.6	98.9	98.7	98.4	98.5	98.4
Q2	99.7	99.1	99.2	99.4	99.5	99.6	99.3	99.3	100.7	99.4	99.8	100.4	100.1	99.6
Q3	100.3	100.3	100.3	100.5	100.6	100.6	100.3	100.4	100.2	100.3	100.3	100.6	100.4	100.4
Q4	101.0	102.1	101.9	101.7	101.6	101.6	102.4	101.9	100.5	101.4	101.1	100.7	100.9	101.6
2014 Q1	102.6	104.2	103.9	103.8	102.7	102.4	104.0	103.6	101.2	102.2	101.9	100.9	101.4	102.8
Q2	101.9	103.5	103.1	103.6	102.4	101.8	103.7	103.1	101.4	102.4	102.2	100.9	101.5	102.5
Q3	102.5	104.1	103.8	104.6	103.1	102.7	104.4	103.9	101.7	102.7	102.4	101.1	101.7	103.1
Q4	102.7	104.3	104.0	104.9	103.3	103.4	104.6	104.2	101.6	102.7	102.4	101.1	101.8	103.3
2015 Q1	104.0	105.6	105.3	105.5	104.2	104.0	105.5	105.1	102.0	103.0	102.6	101.9	102.3	104.1
Q2	104.3	105.9	105.7	105.3	104.3	103.3	105.7	105.3	102.3	103.4	103.1	102.4	102.8	104.4
Q3	105.5	107.2	107.0	107.4	106.4	105.4	107.7	107.1	102.5	103.6	103.3	102.4	102.9	105.6
Q4	105.7	107.3	107.2	107.4	106.6	105.2	107.9	107.2	102.6	103.7	103.4	102.5	103.0	105.7
2016 Q1	107.1	108.8	108.6	108.0	107.6	106.4	109.0	108.3	102.7	103.8	103.4	102.6	103.1	106.4
Q2	107.7	109.4	109.3	108.4	107.9	107.4	109.3	108.7	103.0	104.0	103.8	102.9	103.4	106.9
Q3	108.3	110.0	109.9	106.5	108.7	109.1	110.0	109.0	103.4	104.5	104.3	103.3	103.8	107.2
Q4	109.5	111.2	111.0	107.2	109.5	110.3	110.8	109.9	104.0	105.1	104.9	103.6	104.4	108.0
2017 Q1	111.2	112.9	112.8	107.6	110.3	111.5	111.6	111.0	105.0	106.1	105.8	104.4	105.2	109.0

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