

Examination of the BDP

Objectively Assessed Housing Needs

Response to Further Queries from the Inspector (7th July)

1. Paragraph 2.2.2 of the NWHN report states that briefing notes on the projection methodologies for the three individual employment forecasters can be provided separately. Can these please be added to the evidence base, with copies sent to me via the PO?

1.1. The methodologies for the 3 individual employment forecasters have been forwarded to the PO to be added to the document library.

2. Specifically, it is not clear from the NWHN report how the three employment forecasting methodologies have addressed the matter of commuting. It is noted from the ELR that Bromsgrove is both a significant exporter of labour and a major importer of labour – with the balance being in favour of out-commuting. How has this, in practice, been reflected in the three employment forecasts? In particular, do the employment totals set out in table 2.1 of the NWHN paper include a deduction to take account of net out-commuting?

2.1. AMION Consulting have provided the response to question 2 on behalf of the Council, which is set out in full below:

2.2. There are differences in how the three employment forecasting models address the matter of commuting.

2.3. The Cambridge Econometrics Local Economy Forecasting Model does not incorporate any specific commuting variable and focuses on the historic relationship between growth in the local area relative to the region or UK on an industry-by-industry basis. However, the model will implicitly reflect, amongst other things, historic commuting patterns by incorporating past actual performance.

2.4. In contrast, the Oxford Economics and Experian models both take specific account of local demographic and labour market variables. For instance, Oxford Economics has advised that its models are designed to ensure full consistency between variables. This means for example, that labour market and demographic variables are fully linked, both through metrics such as migration and commuting, but also in how demographic changes influence economic growth. Consequently, both Oxford Economics and Experian balance the local

labour market by allowing variables to adjust. They draw upon standard economic and demographic data sets and therefore include an allowance for net commuting.

2.5. The Edge Analytics Limited housing forecasts set out in North Worcestershire Housing Needs Report (ED/2a) hold the commuting ratio constant for the forecast period 2012 to 2030.

3. (a) It is not entirely clear which of the three sets of projections that are summarised in table 8.5 (ONS, WCC and the model) have been taken forward to generate the employment land requirement shown in tables 8.18 and 8.19. Can this be clarified?

3.1. To respond to questions 3a and 3b the Council has worked closely with WM Consulting (co-authors of the ELR) who have provided additional information and amended tables which have been incorporated into the Council's response.

3.2. None of the projections set out within table 8.5 have been taken forward to generate the employment land requirement shown in tables 8.18 and 8.19.

3.3. The model referred to in the ELR has not automatically linked levels of employment and self-employment to the size of the local population. This is despite higher population levels leading to additional local employment as the incomes and transfer payments associated with the extra people translate into additional effective demand.

3.4. The reason for not linking local employment to the size of the local population is mainly because of the difficulties in quantifying the relationship, not least because there is no information on local leakages and the extent to which Bromsgrove residents spend their money outside of the District, thereby creating employment in places other than Bromsgrove.

3.5. Despite this, the failure to measure the effect does not invalidate the employment land requirement forecasts set out in the ELR. This is because population related expenditure principally directly supports activities such as retailing, personal services, health and education rather than the manufacturing, warehousing and distribution and business service activities that are the focus of employment land studies.

3.6. Where the model has been used elsewhere to include population driven local employment, the impact on the demand for employment land of higher population levels has been modest and has principally come from sectors such as retailing and personal services needing additional support from the employment land sectors.

3.(b) If it is the model's projections that have been used for that purpose then it would be helpful to have a more detailed breakdown of the relevant projections along the lines of those provided for the other two scenarios in tables 8.10 and 8.11. However, those two tables omit a final line of figures for the total labour market. Presumably this can be generated by the various additions and subtractions included within the table. However, for completeness and for reasons of transparency total figures (for each year) should be included in these tables respect of all three scenarios.

3.7. Please find below amended versions of tables 8.10 and 8.11:

Table 8.10: Bromsgrove District Labour Market Projections Based on Worcestershire County Council Population Projections

		2001 ('000)	2010 ('000)	2016 ('000)	2021 ('000)	2026 ('000)	2030 ('000)
A	Total population	87.9	93.5	96.8	100.2	103.5	106
B	of which: of normal working age	53.4	54.7	57.7	59.4	59.9	60.3
C	over normal retirement age	17.6	21.9	22	23	25.4	27.7
D	Labour force (all ages)	45.5	47.9	49.3	50.9	51.9	52.8
E	Plus net in commuting	-10.2	-10.2	-10.2	-10.6	-11	-11.2
F	Labour force seeking local employment (D+E)	35.3	37.7	39.1	40.3	40.9	41.6
G	Employees and Self-employees (From WM Enterprises)	40.2	39.6	40.1	41.6	43.1	44.3
H	Less double job adjustment	5	3.3	3.5	3.5	3.5	3.7
I	Less jobs taken by students	1.4	1.5	1.6	1.6	1.4	1.4
J	TOTAL LABOUR MARKET (G-H-I)	33.8	34.8	35	36.5	38.2	39.2
K	Unemployment (F-J)	1.3	2.8	4	3.7	2.7	2.4

Sources: Worcestershire County Council; WM Enterprise Consultants

Table 8.11: Bromsgrove District Labour Market Projections Based on ONS Population Projections

		2001 ('000)	2010 ('000)	2016 ('000)	2021 ('000)	2026 ('000)	2030 ('000)
A	Total population	87.9	94.8	99.6	103.9	107.9	110.6
B	of which: of normal working age	53.2	55.7	59.8	62.2	63.6	64.2
C	over normal retirement age	17.7	21.7	21.6	22.6	24.9	27
D	Labour force (all ages)	45.4	48.7	51.1	52.7	54.4	55.6
E	Plus net in commuting	-10.2	-10.2	-10.2	-10.6	-11	-11.2
F	Labour force seeking local employment (D+E)	35.2	38.5	40.9	42.1	43.4	44.4
G	Employees and Self-employees (From WM Enterprises)	40.2	39.6	40.1	41.6	43.1	44.3
H	Less double job adjustment	5	3.3	3.3	3.4	3.5	3.6
I	Less jobs taken by students	1.4	1.7	1.6	1.6	1.7	1.8
J	TOTAL LABOUR MARKET (G-H-I)	33.8	34.6	35.2	36.6	37.9	38.9
K	Unemployment (F-J)	1.3	3.8	5.7	5.6	5.6	5.5

Source: ONS; WM Enterprise Consultants

3.8. A third table has also been produced presenting the labour market projections based on the Model:

Bromsgrove District Labour Market Projections Based on the Model's Population Projections

		2001 ('000)	2010 ('000)	2016 ('000)	2021 ('000)	2026 ('000)	2030 ('000)
A	Total population	88.1	94.8	99.0	102.6	106.2	109.1
B	of which: of normal working age	53.5	55.7	61.1	63.9	65.5	66.9
C	over normal retirement age	17.7	21.7	20.4	21.0	22.7	24.1
D	Labour force (all ages)	45.4	48.1	51.2	53.0	54.9	56.3
E	Plus net in commuting	-10.2	-10.2	-10.2	-10.6	-11.0	-11.2
F	Labour force seeking local employment (D+E)	35.2	37.9	41.0	42.4	43.9	45.1
G	Employees and Self-employees (From WM Enterprises)	40.2	39.6	40.1	41.6	43.1	44.3
H	Less double job adjustment	4.9	3.3	3.3	3.4	3.5	3.6
I	Less jobs taken by students	1.4	1.3	1.3	1.5	1.5	1.5
J	TOTAL LABOUR MARKET (G-H-I)	33.9	35.1	35.5	36.7	38.1	39.2
K	Unemployment (F-J)	1.4	2.8	5.5	5.7	5.8	5.8

Source: WM Enterprise Consultants

4. In general terms, I would also welcome the Council’s comments on the relationship between the labour market evidence presented in the ELR and that set out in the NWHN report. Do these two documents present a consistent picture?

4.1. It is believed that there is a fairly strong and consistent relationship between the labour market evidence presented in the ELR and that set out within the NWHN Report.

4.2. To aid this comparison WM Consulting have provided the Council with a table setting out the local levels of demand for employees in employment and self-employment. The contents of this table are derived from the model, which generates the local levels of employees in employment and self-employment based on national and regional employment and output projections, which, in turn, are based on assumptions about how the world and national economies will develop over the forecast period.

Levels of demand for employment and self-employment in Bromsgrove District

	2001 (‘000)	2010 (‘000)	2016 (‘000)	2021 (‘000)	2026 (‘000)	2030 (‘000)
Employees in employment	33.7	33.1	33.3	34.6	35.9	37.0
Self-employment	6.5	6.5	6.8	7.0	7.2	7.4
Total	40.2	39.6	40.1	41.6	43.1	44.3

Source: WM Enterprise Consultants

(Note: The Total figures from this table have been inserted as Row G in the above three Labour Market Projections tables)

4.3. This table allows direct comparison with the employment forecasts set out within table 2.1 of the NWHN Report, which has been reproduced below.

Table 2.1: Overall forecasts for employment change for Bromsgrove, 2001 to 2030				
Experian	2001	2011	2012^b	2030
Total employment (thousand)	38.4	37.3	37.8	41.7
Total employment growth to 2030 (thousand) ^a	3.3	4.4	3.9	n/a
Total percentage growth to 2030 ^a	8.5	11.9	10.3	n/a
Oxford Economics	2001	2011	2012	2030
Total employment (thousand)	41.0	38.2	40.7	46.0
Total employment growth to 2030 (thousand) ^a	5.0	7.8	5.3	n/a
Total percentage growth to 2030 ^a	12.2	20.4	13.0	n/a
Cambridge Econometrics	2001	2011	2012	2030
Total employment (thousand)	39.2	37.4	38.6	42.4
Total employment growth to 2030 (thousand) ^a	3.3	5.1	3.9	n/a
Total percentage growth to 2030 ^a	8.4	13.5	10.0	n/a

Source: Experian, 2013, Oxford Economics 2013, Cambridge Econometrics 2013

^a Note: Change from column year to 2030

^b Note: 2012 is the baseline year for the demographic, household and housing need forecasts.

4.4. The tables highlight that the overall level of employment at 2030 generated by the model used in the ELR sits comfortably within the range of the 3 forecasts relied upon within the NWHN Report. The figure of 44.3 generated by the model is comfortably above those predicted by Experian (41.7) and Cambridge Econometrics (42.4) and falls slightly below the Oxford Economics forecast (46.0).

4.5. The forecasts relied upon within the ELR were produced by Cambridge Econometrics in May 2012 and are entitled 'Economic Prospects for the Nations and Regions of the UK' (attached as Appendix A). Paragraphs 8.40 to 8.47 of the ELR provide further details on the employment projections used. In summary it explains that the employment projections for Bromsgrove District are substantially driven by the forecasts for the West Midlands Region. Although it does not mean the Bromsgrove District economy is assumed to be a microcosm of the West Midlands regional economy. Rather the model assumes that the performance of the Bromsgrove District economy is determined by a combination of local factors within each industrial sector, the overall industrial structure and regional, national and international factors. Local factors are determined by reference to historic performance and the model allows a local sector to behave differently from the same sector, both regionally and nationally. In summary this local model allocates employment within the West Midlands region between Bromsgrove District and the rest of the region taking into account 32 employment sectors.

4.6. The NWHN Report relies on local authority level forecasts produced by Cambridge Econometrics (November 2013), Oxford Economics (November 2013) and Experian (October 2013) (all attached as Appendix A). It is difficult to directly compare all of the forecasts as the Cambridge Econometrics Forecasts, produced for the ELR, are at regional level where-as those used within the

NWHN Report provide detail at local authority level. However, the Oxford Economics forecasts also include regional data across 19 sectors which allows direct comparisons between the 2 forecasts. Figure 1 sets out total employment growth at a regional level across all sectors and also identifies particular key sectors for comparison.

Employment (thousands)	Cambridge Econometrics for ELR (May 2012)			Oxford Economics for NWHN (November 2013)		
	2011	2030	Growth	2011	2030	Growth
Education	234.6	240.2	5.6 (2.4%)	238.1	231.8	-6.3 (-2.64%)
Construction	159.3	196.8	37.5 (23.5%)	166.5	190.4	23.9 (14.4%)
Health and Social Work	319.1	369.0	49.9 (15.6%)	348.3	356.9	8.6 (2.5%)
Transportation and storage	134.0	145.6	11.6 (8.6%)	128.9	159.5	30.6 (23.7%)
Total Employment	2551.9	2859.7	307.8 (12.1%)	2600.7	2804.2	203.5 (7.82%)

Figure 1: Comparison between economic forecasts in terms of total employment growth and selected sectors over the period 2011-2030 in the West Midlands Region

4.7. Figure 1 highlights that both forecasts show growth in the West Midlands economy over the plan period, although the levels of growth in individual sectors varies between the forecasts. It is surprising to note that the Cambridge Econometrics forecasts (May 2012) that were used within the ELR predict higher growth levels than the more recent Oxford Economics (November 2013) forecasts that are used within the NWHN Report. Table 2.13 (page 15) of the NWHN Report highlights that in both numerical and percentage terms the Oxford Economics forecasts represent the highest growth levels in Bromsgrove District when compared to the Autumn 2013 forecasts produced by Experian and Cambridge Econometrics. Therefore despite being 18 months older and being produced in a less certain economic climate, the Cambridge Econometrics Forecasts (May 2012) are similar, albeit slightly higher at a regional level than the forecasts used within the NWHN Report.

4.8. Tables 8.6 and 8.8 of the ELR compare the structure of the economy now with the expected structure in 2030. This highlights that the service sector will still be the dominant sector within Bromsgrove District. This compares favourably with the 3 forecasts from Autumn 2013 which emphasise that the service sector will continue to be the main source of employment within Bromsgrove District.

4.9. In summary, it is acknowledged that there are differences between not only the individual forecasts used within the NWHN study but also those used within the ELR. This emphasises that each forecaster uses different models and

methodologies which produces slightly different results however, this does not dent the credibility of any of the forecasts. It is important to note that in broad terms the labour market forecasting presented within the ELR is consistent with the NWHN Report and the employment growth at 2030 predicted by the model used in ELR sits comfortably within the range of the 3 forecasts presented in the NWHN Report. Each employment forecast highlights that the Bromsgrove economy will continue to grow and the service sector will also continue to provide the highest proportion of jobs within the District.

4.10. In the recent announcement (7 July 2014) of the single government funding 'pot' to be distributed through the LEPs, despite schemes being proposed in Bromsgrove none have been prioritised or allocated direct funding in either the Greater Birmingham and Solihull LEP or the Worcestershire LEP. This demonstrates that whilst economic growth can and will happen in the District, in terms of the priorities in the West Midlands, Bromsgrove District does not currently feature as a location where there are sufficient opportunities at an advanced stage which need government financial intervention at this point in time.

Appendix A: Employment Forecasts

**Employment in the UK
(thousands)**

	2031	2032	2033	2034	2035
Agriculture etc	351.6	347.9	343.8	339.6	335.5
Mining & quarrying	39.7	38.9	38.1	37.3	36.4
Manufacturing	2,282.4	2,268.7	2,255.7	2,242.6	2,229.4
Food, drink & tobacco	335.5	332.5	329.5	326.5	323.5
Textiles etc	86.6	84.8	83.2	81.5	79.9
Wood & paper	115.1	114.2	113.3	112.4	111.4
Printing & recording	120.6	119.5	118.5	117.5	116.4
Chemicals etc	77.8	76.2	74.7	73.1	71.6
Pharmaceuticals	46.2	46.6	47.2	47.7	48.2
Non-metallic min. prods	225.7	223.9	222.1	220.4	218.7
Metals & metal prods.	328.6	326.1	323.4	320.7	318.1
Electronics	82.0	80.1	78.2	76.3	74.5
Electrical equipment	84.9	84.7	84.8	84.8	84.9
Machinery etc	159.5	158.5	157.7	156.9	156.1
Transport equipment	200.1	196.1	191.9	187.8	183.6
Other manuf. & repair	420.2	425.7	431.6	437.4	443.1
Elect., gas, water etc	358.1	362.7	367.2	371.8	376.3
Construction	2,719.7	2,737.3	2,756.7	2,775.9	2,794.9
Services	28,809.7	29,028.2	29,251.7	29,474.1	29,695.5
Distribution	1,864.6	1,872.4	1,878.8	1,885.2	1,891.7
Retail trade	3,127.7	3,136.1	3,144.3	3,152.4	3,160.6
Transportation & storage	1,665.2	1,672.0	1,679.8	1,687.3	1,694.6
Accommodation & catering	2,551.3	2,579.1	2,607.0	2,634.7	2,662.5
Media & IT services	1,570.1	1,588.5	1,607.3	1,626.1	1,644.8
Financial & insurance	1,229.7	1,242.1	1,253.7	1,265.3	1,277.1
Real estate	659.6	669.4	679.3	689.1	698.9
Legal, acc., manag. & eng. serv.	2,294.3	2,325.3	2,355.8	2,386.4	2,417.0
Other professional services	737.7	746.2	754.3	762.4	770.6
Business support services	2,774.5	2,794.2	2,814.7	2,835.1	2,855.4
PAD	1,435.0	1,431.8	1,429.4	1,426.8	1,424.2
Education	2,692.2	2,721.1	2,754.5	2,787.5	2,819.9
Health & social work	4,315.0	4,348.5	4,382.2	4,415.8	4,449.5
Arts & recreational serv.	883.1	883.1	883.3	883.3	883.4
Other services	1,009.6	1,018.3	1,027.3	1,036.3	1,045.3
Total Employment	34,561.5	34,784.0	35,013.4	35,241.6	35,468.4

**Employment in the West Midlands
(thousands)**

	2031	2032	2033	2034	2035
Agriculture etc	36.1	36.2	36.2	36.2	36.2
Mining & quarrying	0.8	0.7	0.7	0.6	0.6
Manufacturing	306.2	305.8	305.7	305.7	305.6
Food, drink & tobacco	27.2	26.7	26.2	25.7	25.3
Textiles etc	10.7	10.7	10.7	10.8	10.8
Wood & paper	12.6	12.6	12.6	12.6	12.6
Printing & recording	9.0	8.6	8.1	7.7	7.3
Chemicals etc	6.4	6.2	6.0	5.8	5.6
Pharmaceuticals	1.2	1.2	1.2	1.2	1.2
Non-metallic min. prods	38.4	38.6	38.7	38.8	39.0
Metals & metal prods.	70.2	69.9	69.8	69.7	69.5
Electronics	3.6	3.5	3.4	3.3	3.2
Electrical equipment	11.5	11.7	11.8	11.9	12.0
Machinery etc	24.8	24.6	24.3	24.1	23.9
Transport equipment	48.6	48.8	49.1	49.3	49.6
Other manuf. & repair	41.7	42.6	43.5	44.4	45.3
Elect., gas, water etc	37.1	37.6	38.1	38.6	39.1
Construction	197.8	198.6	199.5	200.5	201.4
Services	2,301.2	2,319.1	2,337.2	2,355.2	2,373.2
Distribution	179.4	179.9	180.2	180.5	180.8
Retail trade	279.5	280.7	282.0	283.2	284.5
Transportation & storage	146.0	146.3	146.7	147.1	147.5
Accommodation & catering	171.3	173.9	176.6	179.2	181.9
Media & IT services	84.5	84.8	85.3	85.7	86.1
Financial & insurance	78.9	79.7	80.3	81.0	81.7
Real estate	75.8	77.6	79.3	81.0	82.8
Legal, acc., manag. & eng. serv.	160.0	161.7	163.5	165.2	166.9
Other professional services	38.7	39.1	39.6	40.0	40.5
Business support services	224.8	225.9	227.1	228.3	229.4
PAD	97.0	96.3	95.7	95.1	94.5
Education	243.6	246.6	249.9	253.2	256.4
Health & social work	372.5	376.0	379.5	383.0	386.6
Arts & recreational serv.	69.9	70.1	70.4	70.7	71.0
Other services	79.6	80.4	81.2	82.1	83.0
Total Employment	2,879.0	2,897.8	2,917.2	2,936.5	2,955.8

Bromsgrove

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
A : Agriculture, forestry and fishing	0.9	0.9	1.0	0.9	0.8	0.9	0.9	0.7	0.7	0.6	0.5	0.6	0.6	0.6	0.6
B : Mining and quarrying	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C : Manufacturing	3.7	3.5	3.6	3.5	3.5	4.4	3.3	3.7	3.5	3.9	3.3	2.8	3.8	4.9	3.2
D : Electricity, gas, steam and air conditioning supply	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E : Water supply; sewerage, waste management and remediation activities	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.2	0.2
F : Construction	3.2	3.0	3.0	3.1	3.3	3.6	3.2	4.4	3.6	3.7	3.4	2.7	3.9	4.3	4.2
G : Wholesale and retail trade; repair of motor vehicles and motorcycles	4.9	5.1	5.3	5.9	6.5	6.2	5.5	6.5	6.5	6.0	6.6	5.3	4.9	4.9	4.9
H : Transportation and storage	0.5	0.5	0.6	0.5	0.5	0.6	0.6	0.5	0.6	0.7	0.8	0.7	0.8	0.6	0.5
I : Accommodation and food service activities	3.0	2.8	2.7	2.8	2.9	3.1	3.6	3.0	4.1	3.3	3.1	3.2	2.6	3.6	3.4
J : Information and communication	0.4	0.4	0.3	0.5	0.7	1.9	0.9	1.1	0.9	1.4	1.0	1.1	1.3	0.8	0.9
K : Financial and insurance activities	0.5	0.5	0.7	0.6	0.6	0.6	0.6	0.6	1.7	1.8	1.1	1.9	1.7	1.9	2.1
L : Real estate activities	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.5	0.5	0.4	0.3	0.5	0.7	0.6	0.7
M : Professional, scientific and technical activities	1.3	1.3	1.3	1.4	1.6	1.5	1.5	1.6	1.9	1.8	1.5	2.0	2.2	1.7	2.0
N : Administrative and support service activities	7.2	7.9	8.7	8.5	8.5	9.2	9.3	8.0	7.0	7.5	8.6	1.8	2.0	1.8	2.0
O : Public administration and defence; compulsory social security	1.0	1.0	1.0	0.8	0.6	1.7	0.5	0.9	0.7	0.7	1.0	1.2	1.3	1.3	1.4
P : Education	2.3	2.3	2.2	2.5	2.8	2.8	3.2	3.1	3.2	3.4	3.5	3.9	3.7	3.9	4.1
Q : Human health and social work activities	3.7	4.3	4.9	4.3	3.7	4.5	5.9	3.9	4.2	4.4	4.1	2.9	3.0	3.5	4.5
R : Arts, entertainment and recreation	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.7	0.9	0.8	0.9	1.2	1.2	1.1	1.1
S : Other service activities	0.6	0.7	0.9	1.0	1.2	1.0	1.0	0.7	1.1	0.8	1.1	1.4	2.9	3.1	1.5
Total	34.5	35.5	37.1	37.6	38.6	43.3	41.3	40.2	41.1	41.4	41.0	33.3	36.7	38.9	37.1

West Midlands

	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
A : Agriculture, forestry and fishing	39.9	40.7	42.0	38.8	36.9	37.1	38.6	36.4	35.8	32.2	29.1	30.8	32.3	31.6	34.8
B : Mining and quarrying	5.8	4.7	3.4	2.7	2.6	3.0	3.0	3.1	2.9	2.9	2.9	2.6	2.3	2.2	2.2
C : Manufacturing	611.0	561.5	535.2	548.0	580.5	582.8	582.7	585.3	554.2	526.0	487.7	466.1	442.0	413.3	389.3
D : Electricity, gas, steam and air conditioning supply	17.2	15.0	12.9	11.3	10.1	8.3	9.2	10.1	10.0	10.8	10.2	9.2	8.3	7.0	6.6
E : Water supply; sewerage, waste management and remediation activities	15.5	16.1	16.6	16.1	16.3	16.7	17.3	17.5	15.8	17.3	17.8	16.3	16.0	15.6	15.0
F : Construction	182.1	167.9	160.5	160.3	158.7	160.8	154.1	162.8	152.6	162.1	155.4	165.3	170.9	173.5	176.9
G : Wholesale and retail trade; repair of motor vehicles and motorcycles	420.5	423.2	428.4	430.6	435.1	462.4	469.9	465.5	453.4	444.6	452.0	451.9	452.7	457.9	461.3
H : Transportation and storage	103.0	99.2	96.3	93.3	98.3	105.8	104.9	107.2	110.7	116.4	121.9	118.4	123.4	121.3	125.0
I : Accommodation and food service activities	127.6	124.5	124.1	131.6	135.2	134.8	126.5	132.9	136.3	134.8	134.5	135.4	136.7	143.4	146.1
J : Information and communication	55.9	53.8	53.3	53.6	56.1	60.0	62.3	67.3	67.8	73.0	74.5	77.9	81.1	78.1	77.4
K : Financial and insurance activities	76.8	74.0	74.3	73.7	78.6	77.4	76.8	78.8	81.6	79.7	80.6	83.4	82.6	81.6	83.2
L : Real estate activities	21.3	21.2	21.7	22.1	23.1	22.8	24.9	24.8	24.6	24.6	24.1	26.9	28.3	30.3	33.5
M : Professional, scientific and technical activities	105.7	105.9	109.2	109.7	113.4	123.9	116.4	116.0	118.5	121.4	124.7	131.2	137.1	140.5	147.3
N : Administrative and support service activities	133.9	134.4	137.7	139.5	145.3	163.5	174.4	169.4	173.0	163.6	169.6	178.0	179.8	190.7	196.4
O : Public administration and defence; compulsory social security	124.7	122.3	116.9	116.5	114.3	109.3	107.4	106.5	108.4	109.3	118.2	125.0	130.5	128.5	126.3
P : Education	174.6	173.8	172.7	174.8	176.5	179.8	184.6	187.5	201.9	205.6	205.8	214.3	221.6	225.6	232.0
Q : Human health and social work activities	230.0	234.6	239.0	236.4	234.1	234.0	234.1	237.7	247.8	257.3	264.4	259.0	272.6	279.4	297.1
R : Arts, entertainment and recreation	42.5	42.6	44.9	46.5	45.8	46.4	48.5	47.3	52.1	54.8	56.2	60.8	61.3	61.7	67.2
S : Other service activities	61.8	61.6	63.8	64.8	64.8	64.3	61.2	66.6	68.6	72.6	75.0	74.3	75.6	77.6	78.6
Total	2549.9	2477.1	2452.9	2470.0	2525.6	2593.0	2596.9	2622.8	2615.9	2609.1	2604.7	2626.6	2655.0	2660.0	2696.3

Bromsgrove

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
A : Agriculture, forestry and fishing	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
B : Mining and quarrying	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C : Manufacturing	3.9	3.6	3.3	2.9	3.0	3.0	3.2	3.3	3.3	3.3	3.2	3.2	3.2	3.1	3.1
D : Electricity, gas, steam and air conditioning supply	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E : Water supply; sewerage, waste management and remediation activities	0.1	0.2	0.2	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
F : Construction	3.8	3.9	4.0	3.9	4.0	3.6	3.4	3.5	3.6	3.7	3.8	3.9	3.9	4.0	4.1
G : Wholesale and retail trade; repair of motor vehicles and motorcycles	5.2	5.1	5.5	5.3	5.5	4.9	6.0	6.0	6.0	6.1	6.2	6.2	6.3	6.3	6.3
H : Transportation and storage	0.6	0.7	0.7	1.0	1.1	0.9	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.2
I : Accommodation and food service activities	2.9	3.2	3.3	3.5	3.3	3.3	3.5	3.5	3.6	3.6	3.7	3.7	3.8	3.8	3.8
J : Information and communication	0.7	1.5	1.4	1.5	1.4	1.3	1.3	1.3	1.4	1.4	1.4	1.5	1.5	1.5	1.5
K : Financial and insurance activities	3.9	1.6	1.3	1.2	1.2	1.4	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
L : Real estate activities	0.7	0.9	0.8	0.6	0.6	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.9	0.9	0.9
M : Professional, scientific and technical activities	1.9	2.2	2.4	2.1	1.8	2.6	2.6	2.7	2.8	2.8	2.9	3.0	3.1	3.2	3.2
N : Administrative and support service activities	2.4	2.7	2.9	2.6	3.2	3.1	3.8	4.0	4.1	4.2	4.3	4.5	4.6	4.7	4.7
O : Public administration and defence; compulsory social security	1.3	1.4	1.5	1.6	1.2	1.1	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.8
P : Education	4.5	4.6	4.6	4.4	4.4	3.7	4.1	4.1	4.1	4.1	4.1	4.1	4.0	4.0	4.1
Q : Human health and social work activities	4.7	4.8	4.7	5.1	5.1	5.1	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
R : Arts, entertainment and recreation	1.3	1.1	1.1	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.2
S : Other service activities	2.0	2.0	1.9	1.6	1.3	1.5	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.6	1.6
Total	40.5	40.0	40.2	39.2	39.0	38.2	40.7	41.3	41.7	42.1	42.6	43.0	43.5	43.8	44.2

West Midlands

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
A : Agriculture, forestry and fishing	33.2	31.3	30.0	33.0	32.4	31.5	33.7	30.5	30.2	29.8	29.4	29.0	28.7	28.3	27.9
B : Mining and quarrying	2.3	2.3	1.9	1.4	1.4	1.8	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.4	1.4
C : Manufacturing	374.7	353.2	342.8	300.7	304.4	298.1	302.9	304.9	304.9	302.2	299.4	296.3	292.6	289.0	285.4
D : Electricity, gas, steam and air conditioning supply	6.7	7.2	8.4	12.0	12.6	11.4	10.9	11.3	11.2	11.1	11.0	10.9	10.8	10.7	10.6
E : Water supply; sewerage, waste management and remediation activities	15.3	14.9	14.6	17.5	16.0	19.1	19.5	19.4	19.2	19.0	18.9	18.7	18.6	18.5	18.4
F : Construction	194.9	194.4	189.4	179.2	169.2	166.5	157.2	160.0	164.1	166.7	169.2	171.8	173.9	175.6	177.2
G : Wholesale and retail trade; repair of motor vehicles and motorcycles	456.9	454.5	460.8	447.0	451.7	423.6	459.3	459.1	459.3	462.5	464.6	466.7	468.6	470.2	471.4
H : Transportation and storage	130.8	129.8	137.3	129.8	123.1	128.9	141.7	144.5	147.0	150.1	152.9	155.3	156.9	158.1	159.0
I : Accommodation and food service activities	149.5	152.9	150.1	148.5	130.0	140.1	150.5	151.1	153.0	155.0	156.8	158.5	159.7	160.5	161.2
J : Information and communication	79.7	81.9	76.9	82.6	82.8	72.9	76.7	76.3	78.0	79.7	81.4	83.0	84.4	85.6	86.7
K : Financial and insurance activities	80.7	80.4	79.1	82.5	77.1	74.1	72.9	78.0	78.2	78.3	78.4	78.5	78.6	78.8	79.0
L : Real estate activities	37.1	41.4	45.3	33.3	32.3	36.1	40.0	40.8	41.1	42.1	43.4	45.0	46.3	47.3	48.1
M : Professional, scientific and technical activities	151.1	150.2	152.8	146.3	137.7	152.4	156.8	161.4	164.6	168.0	171.9	176.6	180.9	183.9	186.3
N : Administrative and support service activities	207.4	216.0	209.0	181.0	198.4	199.8	211.6	220.7	225.7	229.9	235.0	241.2	246.4	249.8	252.5
O : Public administration and defence; compulsory social security	125.7	130.5	131.0	124.1	114.1	118.9	113.3	111.6	108.6	105.1	101.1	97.4	95.3	94.8	94.8
P : Education	236.4	232.8	239.6	250.1	262.0	238.1	243.4	241.6	240.9	239.1	236.9	234.8	233.4	233.1	233.0
Q : Human health and social work activities	304.6	294.3	296.5	318.4	336.7	348.3	348.1	349.0	346.7	344.5	344.2	343.4	342.6	343.6	345.2
R : Arts, entertainment and recreation	70.5	65.7	63.0	57.2	63.8	64.3	65.7	64.6	65.7	67.0	68.7	70.3	71.8	73.1	73.8
S : Other service activities	84.5	85.4	79.1	72.1	62.2	74.8	65.2	63.4	64.2	65.2	66.6	68.0	69.2	70.2	70.8
Total	2742.1	2719.3	2707.4	2616.6	2607.8	2600.7	2671.0	2690.0	2704.3	2717.0	2731.4	2746.9	2760.3	2772.4	2782.8

Bromsgrove

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
A : Agriculture, forestry and fishing	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4
B : Mining and quarrying	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C : Manufacturing	3.1	3.0	3.0	3.0	2.9	2.9	2.8	2.8	2.7	2.7
D : Electricity, gas, steam and air conditioning supply	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E : Water supply; sewerage, waste management and remediation activities	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
F : Construction	4.1	4.2	4.2	4.3	4.3	4.3	4.4	4.4	4.5	4.5
G : Wholesale and retail trade; repair of motor vehicles and motorcycles	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.5	6.5	6.5
H : Transportation and storage	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
I : Accommodation and food service activities	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
J : Information and communication	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
K : Financial and insurance activities	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
L : Real estate activities	0.9	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
M : Professional, scientific and technical activities	3.3	3.3	3.3	3.4	3.4	3.4	3.5	3.5	3.5	3.6
N : Administrative and support service activities	4.8	4.8	4.9	4.9	5.0	5.0	5.1	5.1	5.1	5.2
O : Public administration and defence; compulsory social security	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
P : Education	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
Q : Human health and social work activities	5.4	5.4	5.5	5.5	5.5	5.5	5.6	5.6	5.6	5.7
R : Arts, entertainment and recreation	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3
S : Other service activities	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.7	1.7
Total	44.5	44.7	44.9	45.1	45.2	45.4	45.5	45.7	45.8	46.0

West Midlands

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
A : Agriculture, forestry and fishing	27.6	27.3	27.0	26.7	26.4	26.1	25.8	25.5	25.2	24.9
B : Mining and quarrying	1.3	1.3	1.3	1.2	1.2	1.1	1.1	1.1	1.0	1.0
C : Manufacturing	281.7	277.8	273.5	268.6	263.7	258.8	254.1	249.5	244.9	240.8
D : Electricity, gas, steam and air conditioning supply	10.4	10.3	10.2	10.1	10.0	9.9	9.9	9.8	9.7	9.6
E : Water supply; sewerage, waste management and remediation activities	18.2	18.1	18.0	17.8	17.7	17.6	17.5	17.3	17.2	17.1
F : Construction	178.8	180.4	181.8	183.1	184.4	185.7	186.8	188.0	189.2	190.4
G : Wholesale and retail trade; repair of motor vehicles and motorcycles	472.8	473.1	473.1	472.9	472.4	472.0	471.5	471.0	470.6	470.3
H : Transportation and storage	159.7	159.8	159.8	159.8	159.7	159.7	159.7	159.6	159.6	159.5
I : Accommodation and food service activities	161.6	161.8	161.7	161.6	161.4	161.3	161.1	160.9	160.7	160.6
J : Information and communication	87.7	88.5	89.2	89.7	90.1	90.5	91.0	91.5	92.0	92.5
K : Financial and insurance activities	79.2	79.3	79.4	79.5	79.6	79.7	79.9	79.9	80.0	80.2
L : Real estate activities	48.9	49.8	50.4	51.0	51.4	51.9	52.3	52.6	53.0	53.4
M : Professional, scientific and technical activities	188.5	190.5	192.3	193.7	195.0	196.3	197.5	198.7	199.9	201.2
N : Administrative and support service activities	255.0	257.4	259.2	260.4	261.6	262.8	264.1	265.4	266.6	268.0
O : Public administration and defence; compulsory social security	94.7	94.5	94.4	94.3	94.2	94.1	93.9	93.8	93.7	93.6
P : Education	232.8	232.5	232.2	231.9	231.7	231.7	231.6	231.5	231.5	231.8
Q : Human health and social work activities	346.9	348.3	349.3	350.3	351.2	352.1	353.1	354.1	355.1	356.5
R : Arts, entertainment and recreation	74.5	75.1	75.6	76.1	76.7	77.2	77.8	78.3	78.9	79.4
S : Other service activities	71.2	71.5	71.7	72.0	72.2	72.5	72.7	73.0	73.3	73.5
Total	2791.5	2797.3	2800.1	2800.6	2800.5	2801.1	2801.2	2801.5	2802.0	2804.2