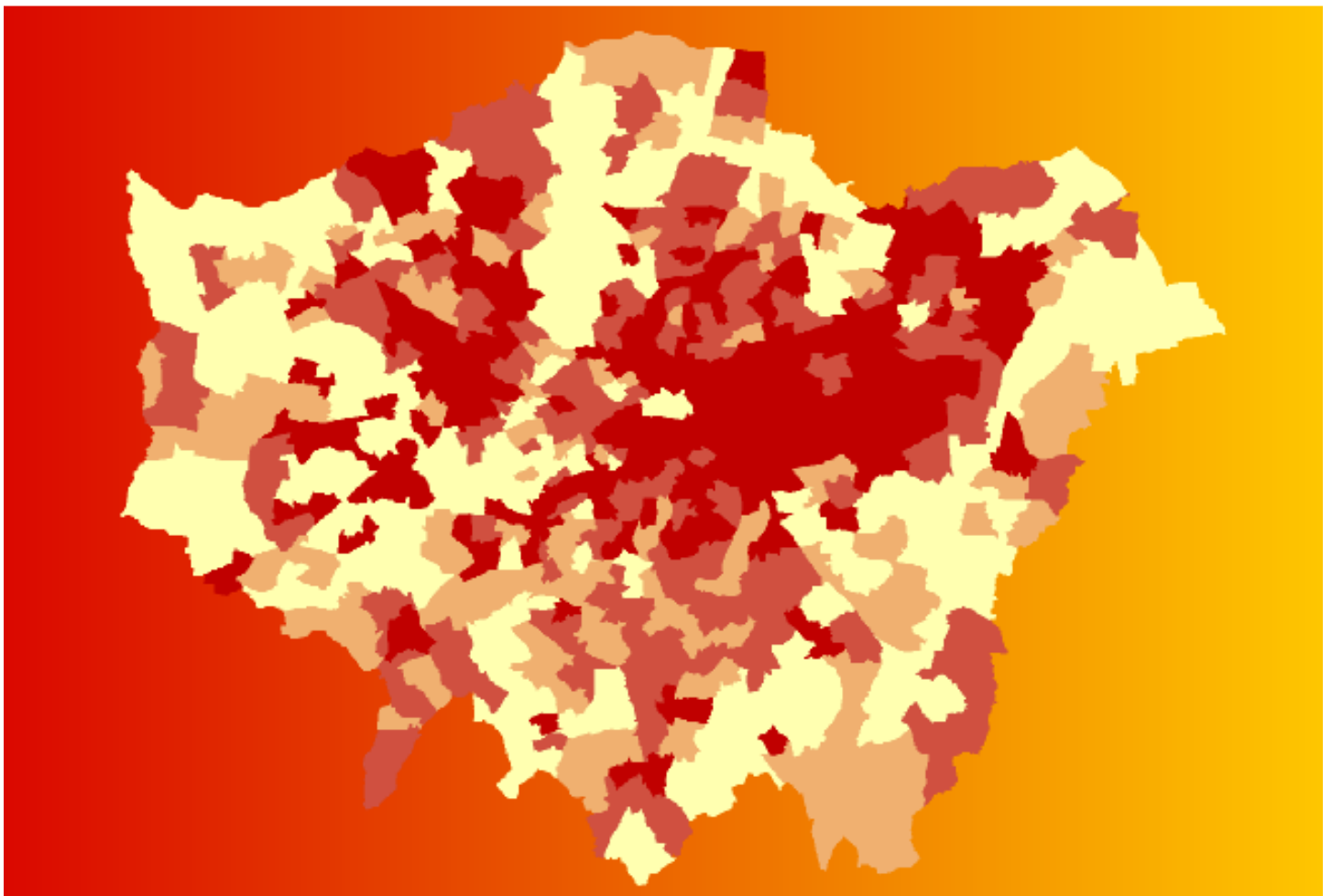


## Data Management and Analysis Group

# GLA 2005 Round Interim Ward Population Projections



DMAG Briefing 2005/40  
October 2005

# **DMAG Briefing 2005/40**

**November 2005**

## **GLA 2005 Round Interim Ward Population Projections**

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### **Maps**

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### **Front Page**

The data presented on the front page of this *Briefing* are the percentage population change between 2001 and 2016. The data underlying the map are available on request.

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## Background

The GLA ward population projections follow on from the projections produced at borough level. They incorporate ward data on births, deaths, electorates and housing development, in order to distribute the borough populations by age and gender to the wards.

The new borough projections, the 2005 Round Interim projections, differ from the previous projections, the 2003 Round Scenario 8.1, in a number of key ways, in particular:

- The borough base populations are the ONS re-revised mid-2001 estimates that were published in September 2004
- The projections recognise births, deaths and migration changes up to mid-2004 broadly consistent with the ONS mid-year estimates
- The 2001 Census has been used to provide all the age/gender migration structures and probabilities
- As student migration is included in the 2001 Census migration tables (for the first time) no separate assumptions have been made for students with term-time residence in London boroughs
- Borough age-specific fertility rates and borough-group age/gender survival rates based upon the mid-2001 populations and the births and deaths occurring in the calendar years 2000-02 have been used as the basis for fertility and survival assumptions
- The Government Actuary's mid-2003 based assumptions for the future courses of national fertility and survival rates have been followed
- The 2004 London Housing Capacity Study (LHCS) has been the main determinant of the population growth in the London boroughs after 2004
- The 2001 Census borough level household representative rates have been used to set assumptions about the future course of average household size.

The projections have also been extended to 2031, but between 2017 and 2027 the LHCS data are more limited (see later section) and amount to an average of only 14 thousand additional homes a year rather than 37 thousand (2007-12) and 26 thousand (2012-17). This means that the rate of growth of the population after 2016 is much reduced.

The ward projections are not completely consistent with the borough projections published as Scenario 8.06 in October (*DMAG Briefing 2005/33*) as there have been subsequent amendments to the 2004 LHCS in a number of boroughs. Most of the changes relate to a reassessment of the assumptions regarding vacancy. **The projections presented here are constrained to the results of the Scenario 8.07 borough projections that use 2004 LHCS figures consistent with Table 3A.1 of *Draft Alterations to the London Plan, published in October 2005*.** The revised Scenario 8.07 borough population projections are available on the GLA Demography Extranet or by application, see later section.

The projections are still considered to be *Interim* as they have been prepared on the same basis as the 2003 Round Scenario 8.1, that is borough level projections are linked to an assumed capacity based upon the 2004 LHCS and an estimate of average household size. The *Final* projections must await the availability of the ODPM 2003-

based household projections in order to be able to use the projected trends in marital status and household representative rates that they incorporate. This will enable a better link between the planned growth in homes and the change in the population as well as an indication of the types of households to be expected. While they are expected in November 2005, at present there is no advertised publication date for the ODPM projections.

## Ward Model

The ward model has previously been described in *DMAG Briefing 2005/15: GLA Ward Population Projection Manual*; however, there have been a number of subsequent changes to the model.

Projections produced for a several areas outside of London raised the issue of the way in which large developments are treated in the model. Previously the model would apply housing growth equally across the ages, however it was found that in areas where housing growth was substantial the resulting age-structure of the population was leading to an unlikely changes in average household size. The model was amended and found to produce more robust projections, in line with the expectations based on local knowledge.

In the original model, after the ageing, survival and fertility steps, the percentage increase in dwellings (or the average increase in dwellings and electorates for years when the latter are known) was used in order to 'grow' the population. However, to overcome the problem of unrealistic growth a ward population capacity was calculated for every year based upon the number of available homes, the ward average household size in 2001 and the projected borough change in average household size. To achieve this population capacity, the private household population was 'topped up' with migrants. These migrants exhibit the age/gender profile of migrants to the borough according to the 2001 Census.

This new system currently requires the model to be run twice; but future development of the model will involve integrating all the new steps into a single process as well as incorporating an additional step that applies the borough out migration probabilities to the aged-on populations of each ward. The use of migration will enhance the model by bringing in demographic techniques, whereas previously the proxies for migration that were used (changes in electors and/or dwellings) relied more on mathematical techniques for distributing the population growth. These planned changes to the model will make it more consistent with the processes used in the borough projection model.

In addition to the above technical changes, the ward projections have been extended to 2031. This is primarily for the purposes of TfL, which needs the data for planning transport requirements, but after 2021 the 2004 LHCS has not been used at ward level. This means that all wards are 'expected' to have growth in homes at the same rate as the whole borough.

## **2004 London Housing Capacity Study**

At borough level the data from the LHCS are available under four headings:

- Large Sites (adjusted between 2007 and 2017)
- Small Sites
- Reductions in Vacancy
- Non Self-contained

and for four time periods:

- 2004-07
- 2007-12
- 2012-17
- 2017-27

At ward level the data are available as follows:

- Large Sites (pre-adjusted, for all four time periods)
- Small Sites (as an annual average for 2007-17)

It has therefore been necessary to apportion the difference between annual borough data and the annual sums of the available ward data between the wards in each time period to get consistent input at borough and ward levels.

## **Data Sources**

### ***Populations***

Census day population figures by ward and single year of age were provided by the ONS in Standard Table 1. These were available broken down separately into private household and communal establishment populations. One of the basic assumptions of the model is that communal establishment populations remain unchanged from year to year, and so the Census day data can be used directly in the model. However, this assumption is not made for the private household populations, and hence the total population. An adjustment, using both the borough mid-year estimates at single year of age and the experimental ONS mid-2001 ward estimates by five-year age groups, as constraints is made to convert the ward Census private household populations and therefore to create 'ward mid-year estimates' by single years of age and gender. The experimental ward estimates, from the ONS Small Area Population Estimates (SAPE) project, were used because they adjusted ward populations in a consistent way to the borough adjustments found in the ONS Local Authority Population Studies. This affects Southwark, Wandsworth and Westminster.

### ***Vital statistics***

Ward births and deaths by gender were available for 2001-02 and 2002-03 and used as actual births and deaths in the ward model. Future births and deaths, for years 2003-04 to 2030-31, were calculated by applying the GLA age specific fertility and mortality rates to the relevant populations. The fertility rates were used at borough level, while the mortality rates were for the three borough groups – central, rest of inner and outer. More information on these rates, and the way in which they were calculated are available in *DMAG Briefings 2005/9: Borough Fertility Rates 2000-02* and *2005/10: Borough Life Tables 2000-02*.

*Sources:*

*ONS, Health and Care Unit*

*GLA calculations – fertility and mortality adjustments*

### ***Migration***

As described above, there are two steps for migration. Firstly, the electorates and dwellings data are used (combined for years when electorates are available, only dwellings for later time periods) as a proxy for migration. The second step incorporates borough Census migration inflows, with an age and gender breakdown. The 2001 Census household spaces provide the number of dwellings in 2001 and additional dwellings are available through the London Development Database (LDD) for 2001-04 and from the 2004 LHCS for 2004-21. Although the LHCS is available up to 2027, the majority of users of the ward data will only require up to 2021 and the data are more robust up to this point.

### ***Electorates***

Electorate data are compiled from RPF29 forms, sent to the GLA by ONS but returned by each individual borough. Data were received, relating to October of 2000 to 2003, for Parliamentary electorates by 2001 Census wards – still the current ward geography across London. GLA used these to estimate the electorates at mid-2001, mid-2002 and mid-2003 and these were then used in the model.

*Source:*

*ONS, RPF29 Summary of Register of Electors*

***Dwelling stock***

Data from the London Development Database (formerly the London Development Monitoring System) for 2001-04 and data from 2004 from the London Housing Capacity Study have been used. The data for 2001-04 have been augmented by individual borough when available. See section on the LHCS.

## **Availability of Output**

Data from Scenario 8.07 are available, at borough level, on the Demography Extranet. The tables show populations by single year of age and gender, for each projection year, for all boroughs, borough groups, *London Plan* sub-regions and London as a whole.

Due to size restrictions, it is not possible to put all the ward data onto the Extranet; however, the full data for both wards and boroughs are available on CD on request to Georgia Hay (georgia.hay@london.gov.uk; 020 7983 4347).

## **Appendix Tables**

As mentioned earlier, after the 2004 LHCS was published in July amendments were released in October, which required a re-run of the original borough population projections. The following three tables update of those relating to Scenario 8.06 and the original LHCS data that were presented in *DMAG Briefing 2005/33: GLA 2005 Round Interim Demographic Projections*. Excel versions of these tables are available from Georgia Hay (see above) on request.

Please note that the Scenario 8.07 projections presented here for Tower Hamlets (as well as the summations for Rest of Inner London, Inner London, Greater London and the East London and Thames Gateway sub-region) differ from the original version of the Scenario 8.07 projections owing to an error in data transcription.

**Appendix Table 1: Scenario 8.07: Projected Population (thousands)**

	2001	2004	2011	2016	2021	2026	2031
<b>Camden</b>	202.6	215.5	209.1	213.0	216.8	221.5	226.6
<b>Kensington and Chelsea</b>	162.2	172.9	164.9	166.2	167.1	168.7	170.6
<b>Westminster, City of</b>	203.3	214.8	214.7	218.4	221.0	224.3	228.0
<b>City of London</b>	7.4	8.8	10.1	11.4	12.6	13.7	14.9
<b>Central boroughs</b>	575.5	611.9	598.8	609.1	617.5	628.3	640.2
<b>Hackney</b>	207.2	209.3	225.6	235.0	241.9	249.3	257.1
<b>Hammersmith and Fulham</b>	169.4	177.0	176.3	177.5	177.8	179.1	180.6
<b>Haringey</b>	221.3	225.0	231.1	233.1	237.7	244.5	251.7
<b>Islington</b>	179.4	181.0	203.8	211.1	216.8	223.4	230.4
<b>Lambeth</b>	273.4	267.9	287.2	296.5	304.4	313.4	322.9
<b>Lewisham</b>	254.3	251.0	273.2	281.9	285.9	290.1	294.7
<b>Newham</b>	249.4	253.9	303.9	341.0	351.0	356.6	362.9
<b>Southwark</b>	256.7	260.9	284.1	297.7	310.4	324.5	339.0
<b>Tower Hamlets</b>	201.1	214.3	272.0	301.5	316.1	329.5	343.5
<b>Wandsworth</b>	271.7	277.8	289.1	292.0	294.6	298.5	303.0
<b>Rest of Inner</b>	2,283.9	2,318.1	2,546.3	2,667.2	2,736.6	2,808.9	2,885.8
<b>Inner London</b>	2,859.4	2,930.1	3,145.0	3,276.3	3,354.2	3,437.2	3,526.0
<b>Barking and Dagenham</b>	165.7	168.0	182.7	193.5	208.0	224.5	241.3
<b>Barnet</b>	319.5	319.0	344.3	359.8	365.7	371.4	377.8
<b>Bexley</b>	218.8	220.1	218.7	220.6	221.8	223.6	225.8
<b>Brent</b>	269.6	273.1	293.0	304.0	308.0	311.9	316.3
<b>Bromley</b>	296.2	298.3	302.9	304.1	305.4	308.2	311.4
<b>Croydon</b>	335.1	340.5	349.9	357.3	360.3	363.9	368.1
<b>Ealing</b>	307.3	302.4	317.4	326.7	330.0	333.1	336.8
<b>Enfield</b>	277.3	283.9	285.0	285.7	286.5	288.6	291.2
<b>Greenwich</b>	217.5	225.6	259.0	272.7	278.7	284.9	291.7
<b>Harrow</b>	210.0	211.4	218.5	219.4	219.5	220.7	222.2
<b>Havering</b>	224.7	224.2	230.7	232.3	232.5	233.7	235.3
<b>Hillingdon</b>	245.6	247.0	248.0	249.8	250.7	252.4	254.6
<b>Hounslow</b>	216.0	214.5	223.9	226.8	227.6	228.7	230.3
<b>Kingston upon Thames</b>	149.0	151.2	155.7	159.0	161.1	163.6	166.4
<b>Merton</b>	191.1	192.7	194.8	195.7	196.4	198.1	200.1
<b>Redbridge</b>	241.9	250.9	253.6	266.3	270.4	273.1	276.4
<b>Richmond upon Thames</b>	174.3	175.8	178.0	178.3	178.7	180.0	181.6
<b>Sutton</b>	181.5	179.3	185.2	186.3	187.4	189.5	191.9
<b>Waltham Forest</b>	222.0	224.2	230.1	235.1	237.7	240.8	244.4
<b>Outer London</b>	4,463.0	4,502.0	4,671.4	4,773.4	4,826.2	4,890.7	4,963.5
<b>GREATER LONDON</b>	<b>7,322.4</b>	<b>7,432.1</b>	<b>7,816.4</b>	<b>8,049.7</b>	<b>8,180.4</b>	<b>8,327.9</b>	<b>8,489.5</b>
<b>Central London</b>	1,549.3	1,590.7	1,652.8	1,694.9	1,731.1	1,774.4	1,820.6
<b>East London and Thames</b>							
<b>Gateway</b>	1,987.9	2,026.1	2,229.6	2,356.2	2,418.8	2,479.1	2,543.5
<b>West London</b>	1,417.9	1,425.5	1,477.1	1,504.1	1,513.5	1,525.9	1,540.8
<b>North London</b>	1,040.0	1,052.2	1,090.4	1,113.8	1,127.7	1,145.4	1,165.1
<b>South London</b>	1,327.3	1,337.8	1,366.5	1,380.6	1,389.2	1,403.2	1,419.6

Source: © GLA 2005 Round Interim Demographic Projections - Scenario 8.07

**Appendix Table 2: Scenario 8.07: Projected Households (thousands)**

	2001	2004	2011	2016	2021	2026	2031
<b>Camden</b>	91.8	93.4	97.3	100.4	102.9	105.3	107.8
<b>Kensington and Chelsea</b>	79.3	80.3	82.8	84.4	85.5	86.5	87.5
<b>Westminster, City of</b>	100.5	103.7	109.0	112.3	114.4	116.3	118.3
<b>City of London</b>	4.4	5.0	6.2	7.0	7.8	8.5	9.3
<b>Central boroughs</b>	275.9	282.3	295.2	304.1	310.7	316.7	322.8
<b>Hackney</b>	86.3	89.3	96.5	101.7	105.5	108.9	112.3
<b>Hammersmith and Fulham</b>	75.5	77.0	80.8	82.3	83.1	83.8	84.5
<b>Haringey</b>	92.3	93.6	99.0	101.1	103.9	107.0	110.2
<b>Islington</b>	82.4	86.1	96.2	100.8	104.3	107.7	111.1
<b>Lambeth</b>	118.7	120.7	128.1	133.9	138.5	142.8	147.1
<b>Lewisham</b>	107.6	110.1	118.8	124.1	126.8	128.8	130.9
<b>Newham</b>	92.0	96.8	115.1	130.7	135.5	138.0	140.4
<b>Southwark</b>	108.8	112.2	123.7	131.3	137.9	144.3	150.8
<b>Tower Hamlets</b>	78.7	83.1	109.4	122.7	129.7	135.4	141.1
<b>Wandsworth</b>	118.1	120.6	129.1	132.0	134.1	136.2	138.2
<b>Rest of Inner</b>	960.6	989.5	1,096.7	1,160.6	1,199.1	1,232.9	1,266.6
<b>Inner London</b>	1,236.5	1,271.8	1,391.9	1,464.7	1,509.8	1,549.6	1,589.4
<b>Barking and Dagenham</b>	67.4	68.9	76.4	81.9	88.7	95.9	103.1
<b>Barnet</b>	127.2	129.6	140.8	149.0	152.5	155.2	157.9
<b>Bexley</b>	89.6	90.1	92.0	94.0	95.2	96.1	97.1
<b>Brent</b>	100.1	103.1	111.8	117.4	119.8	121.5	123.2
<b>Bromley</b>	126.1	127.6	132.5	134.6	136.2	137.7	139.1
<b>Croydon</b>	139.4	141.9	149.5	154.5	157.0	158.8	160.7
<b>Ealing</b>	118.3	120.0	125.5	130.7	133.0	134.5	136.0
<b>Enfield</b>	110.7	113.5	116.9	118.6	119.8	120.9	122.0
<b>Greenwich</b>	93.2	98.1	114.0	121.4	125.0	128.1	131.1
<b>Harrow</b>	79.6	81.1	85.0	86.4	87.1	87.7	88.3
<b>Havering</b>	91.9	93.0	96.9	98.8	99.6	100.3	101.0
<b>Hillingdon</b>	96.7	98.1	100.2	102.2	103.3	104.2	105.1
<b>Hounslow</b>	84.1	86.2	89.6	91.9	92.8	93.5	94.1
<b>Kingston upon Thames</b>	61.6	63.2	66.1	68.3	69.7	70.9	72.1
<b>Merton</b>	79.1	80.0	82.8	84.2	85.1	86.0	86.9
<b>Redbridge</b>	92.6	94.2	99.7	105.9	108.4	109.7	110.9
<b>Richmond upon Thames</b>	76.4	77.3	80.1	81.2	82.0	82.7	83.5
<b>Sutton</b>	76.6	77.4	80.3	81.7	82.8	83.9	85.0
<b>Waltham Forest</b>	89.9	91.0	95.7	99.0	100.8	102.3	103.8
<b>Outer London</b>	1,800.4	1,834.3	1,935.7	2,001.9	2,038.9	2,069.9	2,100.9
<b>GREATER LONDON</b>	<b>3,037.0</b>	<b>3,106.1</b>	<b>3,327.6</b>	<b>3,466.6</b>	<b>3,548.8</b>	<b>3,619.5</b>	<b>3,690.2</b>
<b>Central London</b>	699.7	716.9	766.2	795.0	817.7	839.2	860.7
<b>East London and Thames</b>							
<b>Gateway</b>	803.7	828.6	924.9	988.4	1,022.1	1,049.6	1,077.1
<b>West London</b>	554.3	565.4	592.9	610.8	619.1	625.2	631.3
<b>North London</b>	420.2	427.7	452.4	467.8	477.1	485.5	493.9
<b>South London</b>	559.1	567.6	591.2	604.6	612.8	620.0	627.2

Source: © GLA 2005 Round Interim Demographic Projections - Scenario 8.07

**Appendix Table 3: Additional Homes 2001-27 (Annual Averages)**

	2001-04 Actual	2004-7 LHCS	2007-12 LHCS	2012-17 LHCS	2017-27 LHCS
<b>Camden</b>	516	558	574	618	484
<b>Kensington and Chelsea</b>	344	321	380	324	193
<b>Westminster, City of</b>	1069	804	716	640	382
<b>City of London</b>	201	172	172	172	148
<b>Central Boroughs</b>	2130	1854	1841	1754	1207
<b>Hackney</b>	1000	869	1146	1024	683
<b>Hammersmith and Fulham</b>	473	348	690	209	144
<b>Haringey</b>	443	307	1117	246	629
<b>Islington</b>	1233	1303	1532	783	677
<b>Lambeth</b>	646	797	1266	1121	868
<b>Lewisham</b>	825	1425	1096	1049	410
<b>Newham</b>	1626	549	4150	2871	487
<b>Southwark</b>	1109	1408	1838	1418	1296
<b>Tower Hamlets</b>	1459	3487	3960	2339	1146
<b>Wandsworth</b>	806	1502	1004	482	409
<b>Rest of Inner London</b>	9620	11994	17800	11541	6747
<b>Inner London</b>	11749	13848	19641	13295	7954
<b>Barking and Dagenham</b>	481	721	1342	1039	1436
<b>Barnet</b>	785	414	2500	1416	532
<b>Bexley</b>	146	309	258	428	187
<b>Brent</b>	981	884	1511	1024	346
<b>Bromley</b>	504	858	562	404	292
<b>Croydon</b>	834	874	1242	953	368
<b>Ealing</b>	579	909	687	1140	296
<b>Enfield</b>	915	517	468	320	218
<b>Greenwich</b>	1651	1460	2869	1152	608
<b>Harrow</b>	506	506	607	190	124
<b>Havering</b>	365	239	803	268	134
<b>Hillingdon</b>	475	298	316	409	179
<b>Hounslow</b>	690	558	426	466	128
<b>Kingston upon Thames</b>	553	281	504	425	243
<b>Merton</b>	320	214	529	214	178
<b>Redbridge</b>	541	835	743	1384	259
<b>Richmond upon Thames</b>	318	463	353	185	149
<b>Sutton</b>	290	353	445	247	215
<b>Waltham Forest</b>	368	556	753	638	299
<b>Outer London</b>	11302	11249	16919	12301	6192
<b>GREATER LONDON</b>	<b>23052</b>	<b>25097</b>	<b>36560</b>	<b>25596</b>	<b>14146</b>
<b>Central London</b>	5722	6692	7310	5385	4308
<b>East London and Thames Gateway</b>	8296	10065	16540	11725	5498
<b>West London</b>	3704	3503	4237	3438	1216
<b>North London</b>	2511	1795	4838	2620	1678
<b>South London</b>	2818	3042	3635	2428	1445

Source: © GLA 2004 London Housing Capacity Study



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