

## Births Projections by Ethnicity for Greater London: 2007 Round PLP Low

### Introduction

The GLA Ethnic Group Population Projection (EGPP) modelling process includes the derivation of projected births by ethnic group. These births were extracted from the 2007 Round PLP Low model for the London Health Observatory and NHS London. This *Update* gives a summary of projected births by ethnic group for Greater London.

### Background

The main GLA demographic modelling process produces annual total (male + female) births for each London borough on a mid-year to mid-year basis. In the 2007 Round PLP Low outputs for 2001 to 2005 these births are final actual births (births by date of birth from ONS Mid-year Estimate change analyses). For 2006 the births are the Registered births for calendar year 2006, this being the latest available information when the projections were run. For 2007 onwards the births are projected births.

The processes involved in all GLA 2007 Round demographic and ethnic group modelling incorporate recent ONS revisions and updates to their estimates and projections data, including future total fertility rate trends for England as developed by ONS for the 2006-based national population projections (see *DMAG Update 21-2007 2006-based national population projections*). In ethnic group modelling ethnic migration structures are those derived from the 2001 Census (no other source of data is available for this purpose) and these are constant over the projection period. Therefore more recent migration trends (from A8, or EU Accession 8 countries) are not directly reflected although the differences in annual levels of both internal (UK) and international migration are utilised.

The GLA EGPP Model in effect distributes the main model total historical and projected borough births into ten aggregated Ethnic Groups. It does this in two stages. In the first stage births are modelled by ethnic group age-specific fertility rates (London-level) derived from maternity episode ethnicity information from Department of Health Hospital Episode Statistics (described in *DMAG Briefing 2004-24 Fertility of Ethnic Groups in London, 2002-03*), and it is assumed at this stage that live births have the same ethnicity as that of the mother. This stage therefore produces "births by ethnicity of mother".

In the second stage the "births by ethnicity of mother" are redistributed into "births by ethnicity of infant", whereby the ethnic group of some of the births changes. This is because 2001 Census information indicates that in a significant number of unions the ethnicity of a child is not the same as that of its mother. This effect pertains mainly within unions of mixed ethnic groups and is termed transgenerational ethnicity, described in *DMAG Briefing 2005-21 Transgenerational Ethnicity*.

Births by ethnicity of mother may be of interest to London NHS maternity services providers, whereas births by ethnicity of infant are the main component of projected numbers of 0-year olds in the published 2007 Round of GLA Ethnic Group Population Projections. Fifteen years onwards from 2001 (the base year for projections) the "ethnicity of infant" females begin to feed in to the fertility modelling process as potential mothers.

This *Update* therefore presents a summary of historical and projected births for Greater London in terms of ethnicity of mother and of ethnicity of infant, with a comparison of the two. The overall projection period covered is from mid-2001 to mid-2026. It is useful, as far as births are concerned, to keep in mind that this period can be considered in two parts, the period of historical births that have occurred up to 2006, and the period of projected births from 2007 onwards.

## Definitions

GLA Aggregated Ethnic Groups are defined in Table 1.

**Table 1 Classification of GLA Aggregated Ethnic Groups**

| <b>GLA Aggregated Ethnic Group (AEG) *</b> | <b>ONS 2001 Census Ethnic Category</b>  |
|--|---|
| White                                      | White: British<br>White: Irish<br>White: Other White  |
| Black Caribbean                            | Black or Black British: Caribbean   |
| Black African                              | Black or Black British: African   |
| Black Other                                | Black or Black British: Other Black<br>Mixed: White & Black Caribbean<br>Mixed: White & Black African |
| Indian                                     | Asian or Asian British: Indian  |
| Pakistani                                  | Asian or Asian British: Pakistani   |
| Bangladeshi                                | Asian or Asian British: Bangladeshi   |
| Chinese                                    | Chinese or Other: Chinese   |
| Other Asian                                | Mixed: White & Asian<br>Asian or Asian British: Other Asian   |
| Other                                      | Mixed: Other Mixed<br>Chinese or Other: Other   |

*\* approximate to the ten Ethnic Groups used in the 1991 Census, using best fit comparison described in DMAG Briefing 2003/9, 2001 Census Key Statistics: Ethnicity, religion and country of birth*

BAME is an acronym for “Black, Asian and Minority Ethnic” groups. In the context of GLA Aggregated Ethnic Groups it means all other groups except the aggregated White group.

## Analysis

### ***Births by ethnicity of mother***

A summary of Greater London births by ethnicity of mother over the projection period is shown in Table 2a. At the outset, it should be noted that historical annual total births have risen from 104,300 in 2001 to 120,900 in 2006, an increase of 15.9 per cent. Thereafter, the projected trend is fairly flat with minor variations and the projection for 2026 is 121,800 births. It is also important to note that, at Greater London level, the projected trend is in line with ONS 2006-based fertility trends for England.

In terms of births by ethnicity of mother, all ethnic groups have shown an increase in annual births over the historical period to 2006, except for the Black Caribbean group, which remained virtually unchanged. Over this period White births increased by 4,900 (up 9.1 per cent from 2001-02), whereas BAME births increased by 11,700 (up 23.2 per cent from 2001-02). The greatest numerical increases for individual BAME groups were 4,400 Other, 1,400 Indian, 1,300 Black African and 1,200 Pakistani. The greatest percentage increases for individual BAME groups were 54.0 per cent for Other, 48.7 per cent for Chinese, 27.8 per cent for Pakistani, 24.1 per cent for Other Asian and 22.3 per cent for Indian.

Over the projected period (2007 to 2026), although annual total births are projected to be stable and virtually unchanged, there is some variation between ethnic groups, but to a much lesser extent than over the historical period. White births are projected to decrease by 2,100 (down 3.5 per cent from 2007), whereas BAME births are projected to increase by 3,000 (up 4.9 per cent from 2007). However, births are projected to fall slowly and steadily for the Black Caribbean group so that by 2026 they will have reduced by 700 (down 11.7 per cent from 2007), and similarly for the Indian group where they will have reduced by 500 (down by 6.7 per cent from 2007). Only two individual BAME groups are projected to continue rising appreciably, both numerically and in percentage terms, these being the Other group which will increase by 2,200 births (up 17.9 per cent from 2007), and to a lesser extent the Black Other group which will increase by 700 births (up 7.8 per cent from 2007). The remaining individual BAME groups are projected to increase slightly in both numerical and percentage terms, with the exception of the Chinese group for which the percentage rise will be relatively large, arising from a small base number.

Table 2b shows the births by ethnicity of mother in percentage terms for each annual period. In 2001 White births were in a slight majority, comprising 51.8 per cent of all births. By the end of the historical period, in 2006, this had virtually reversed with BAME births in a slight majority, comprising 51.2 per cent. The BAME percentage is projected to continue increasing gradually and the White percentage to continue decreasing gradually, such that by 2026 BAME births will comprise 53.3 per cent of all births. Of individual BAME groups, percentages of Black Caribbean and Indian births are projected to fall slightly from 2006 to 2026. The percentage of Other births is projected to increase from 10.3 per cent to 12.1 per cent over this period, and Black Other to increase from 5.6 per cent to 6.1 per cent. For all remaining BAME groups their percentages are projected to remain virtually stable.

Projected births by ethnicity of mother for Greater London are shown graphically in Figure 1.

**Table 2a Total Births by ethnicity of mother: (Greater London)**

| Mid-Year to<br>Mid-Year   | All<br>Ethnicities | White  | Black<br>Caribbean | Black<br>African | Black<br>Other | Indian | Pakistani | Bangladeshi | Chinese | Other<br>Asian | Other  | BAME   |
|---|--------------------|--------|--------------------|------------------|----------------|--------|-----------|-------------|---------|----------------|--------|--------|
| 2001-02   | 104,300            | 54,000 | 5,600              | 10,500           | 5,700          | 6,300  | 4,200     | 5,200       | 900     | 3,800          | 8,100  | 50,300 |
| 2002-03   | 108,500            | 55,300 | 5,600              | 10,800           | 6,000          | 6,600  | 4,500     | 5,400       | 1,000   | 4,100          | 9,200  | 53,100 |
| 2003-04   | 111,600            | 56,000 | 5,500              | 11,100           | 6,200          | 6,900  | 4,700     | 5,600       | 1,100   | 4,200          | 10,200 | 55,600 |
| 2004-05   | 114,600            | 56,800 | 5,500              | 11,400           | 6,400          | 7,200  | 4,900     | 5,700       | 1,200   | 4,400          | 11,100 | 57,800 |
| 2005-06   | 117,900            | 57,900 | 5,500              | 11,600           | 6,600          | 7,500  | 5,200     | 5,900       | 1,300   | 4,600          | 11,800 | 60,000 |
| 2006-07   | 120,900            | 59,000 | 5,600              | 11,800           | 6,800          | 7,700  | 5,400     | 6,100       | 1,400   | 4,700          | 12,500 | 61,900 |
| 2007-08   | 120,900            | 58,700 | 5,500              | 11,800           | 6,800          | 7,600  | 5,400     | 6,100       | 1,400   | 4,700          | 12,800 | 62,300 |
| 2008-09   | 121,700            | 58,900 | 5,400              | 11,800           | 6,900          | 7,600  | 5,500     | 6,200       | 1,500   | 4,800          | 13,200 | 62,900 |
| 2009-10   | 122,500            | 59,100 | 5,300              | 11,900           | 7,000          | 7,700  | 5,500     | 6,200       | 1,500   | 4,800          | 13,500 | 63,400 |
| 2010-11   | 122,900            | 59,100 | 5,300              | 11,900           | 7,000          | 7,600  | 5,600     | 6,200       | 1,500   | 4,900          | 13,700 | 63,800 |
| 2011-12   | 122,900            | 59,000 | 5,200              | 11,900           | 7,100          | 7,600  | 5,600     | 6,200       | 1,600   | 4,900          | 13,800 | 63,900 |
| 2012-13   | 122,700            | 58,800 | 5,200              | 11,900           | 7,100          | 7,500  | 5,600     | 6,200       | 1,600   | 4,900          | 13,900 | 63,900 |
| 2013-14   | 122,400            | 58,500 | 5,100              | 11,900           | 7,100          | 7,500  | 5,600     | 6,200       | 1,600   | 4,900          | 14,000 | 63,900 |
| 2014-15   | 122,100            | 58,300 | 5,100              | 11,900           | 7,100          | 7,400  | 5,600     | 6,200       | 1,600   | 4,900          | 14,000 | 63,800 |
| 2015-16   | 122,000            | 58,200 | 5,100              | 12,000           | 7,200          | 7,400  | 5,600     | 6,100       | 1,600   | 4,900          | 14,100 | 63,900 |
| 2016-17   | 122,000            | 58,000 | 5,100              | 12,000           | 7,200          | 7,300  | 5,600     | 6,100       | 1,600   | 4,900          | 14,100 | 63,900 |
| 2017-18   | 121,900            | 57,800 | 5,000              | 12,000           | 7,200          | 7,300  | 5,600     | 6,100       | 1,700   | 4,900          | 14,200 | 64,000 |
| 2018-19   | 121,700            | 57,600 | 5,000              | 12,000           | 7,300          | 7,300  | 5,600     | 6,100       | 1,700   | 4,900          | 14,200 | 64,000 |
| 2019-20   | 121,600            | 57,500 | 5,000              | 12,000           | 7,300          | 7,200  | 5,600     | 6,100       | 1,700   | 4,900          | 14,300 | 64,100 |
| 2020-21   | 121,500            | 57,400 | 5,000              | 12,100           | 7,300          | 7,200  | 5,600     | 6,100       | 1,700   | 4,900          | 14,400 | 64,200 |
| 2021-22   | 121,600            | 57,300 | 5,000              | 12,100           | 7,400          | 7,200  | 5,600     | 6,100       | 1,700   | 4,900          | 14,500 | 64,300 |
| 2022-23   | 121,600            | 57,100 | 4,900              | 12,100           | 7,400          | 7,200  | 5,600     | 6,200       | 1,700   | 4,900          | 14,500 | 64,400 |
| 2023-24   | 121,600            | 57,000 | 4,900              | 12,100           | 7,400          | 7,200  | 5,600     | 6,200       | 1,700   | 4,900          | 14,600 | 64,600 |
| 2024-25   | 121,700            | 56,900 | 4,900              | 12,100           | 7,500          | 7,200  | 5,700     | 6,200       | 1,700   | 4,900          | 14,700 | 64,800 |
| 2025-26   | 121,800            | 56,900 | 4,900              | 12,200           | 7,500          | 7,100  | 5,700     | 6,300       | 1,700   | 4,900          | 14,700 | 64,900 |
| <b>Change from 2001-02 to 2025-2026 (total period):</b>                   |                    |        |                    |                  |                |        |           |             |         |                |        |        |
| change  | 17,500             | 2,800  | -600               | 1,700            | 1,700          | 900    | 1,500     | 1,100       | 700     | 1,100          | 6,600  | 14,700 |
| change %  | 16.8               | 5.2    | -11.5              | 16.1             | 30.4           | 14.1   | 34.7      | 21.0        | 81.8    | 28.4           | 81.6   | 29.2   |
| <b>Change from 2001-02 to 2006-2007 (over current historical period):</b> |                    |        |                    |                  |                |        |           |             |         |                |        |        |
| change  | 16,600             | 4,900  | 0                  | 1,300            | 1,100          | 1,400  | 1,200     | 900         | 400     | 900            | 4,400  | 11,700 |
| change %  | 15.9               | 9.1    | 0.2                | 12.9             | 18.8           | 22.3   | 27.8      | 17.5        | 48.7    | 24.1           | 54.0   | 23.2   |
| <b>Change from 2006-07 to 2025-2026 (over projected period):</b>          |                    |        |                    |                  |                |        |           |             |         |                |        |        |
| change  | 900                | -2,100 | -700               | 300              | 700            | -500   | 300       | 200         | 300     | 200            | 2,200  | 3,000  |
| change %  | 0.8                | -3.5   | -11.7              | 2.9              | 9.8            | -6.7   | 5.4       | 3.0         | 22.3    | 3.5            | 17.9   | 4.9    |

*Figures may not add due to rounding***Table 2b Births by ethnicity of mother: Percentages (Greater London)**

| Mid-Year to<br>Mid-Year | All<br>Ethnicities | White | Black<br>Caribbean | Black<br>African | Black<br>Other | Indian | Pakistani | Bangladeshi | Chinese | Other<br>Asian | Other | BAME |
|-------------------------|--------------------|-------|--------------------|------------------|----------------|--------|-----------|-------------|---------|----------------|-------|------|
| 2001-02                 | 100.0              | 51.8  | 5.3                | 10.0             | 5.5            | 6.0    | 4.0       | 5.0         | 0.9     | 3.7            | 7.8   | 48.2 |
| 2002-03                 | 100.0              | 51.0  | 5.1                | 10.0             | 5.5            | 6.1    | 4.1       | 5.0         | 0.9     | 3.7            | 8.5   | 49.0 |
| 2003-04                 | 100.0              | 50.2  | 5.0                | 9.9              | 5.6            | 6.2    | 4.2       | 5.0         | 1.0     | 3.8            | 9.2   | 49.8 |
| 2004-05                 | 100.0              | 49.5  | 4.8                | 9.9              | 5.6            | 6.3    | 4.3       | 5.0         | 1.0     | 3.9            | 9.7   | 50.5 |
| 2005-06                 | 100.0              | 49.1  | 4.7                | 9.8              | 5.6            | 6.3    | 4.4       | 5.0         | 1.1     | 3.9            | 10.0  | 50.9 |
| 2006-07                 | 100.0              | 48.8  | 4.6                | 9.8              | 5.6            | 6.3    | 4.5       | 5.0         | 1.1     | 3.9            | 10.3  | 51.2 |
| 2007-08                 | 100.0              | 48.5  | 4.5                | 9.7              | 5.7            | 6.3    | 4.5       | 5.1         | 1.2     | 3.9            | 10.6  | 51.5 |
| 2008-09                 | 100.0              | 48.4  | 4.4                | 9.7              | 5.7            | 6.3    | 4.5       | 5.1         | 1.2     | 3.9            | 10.8  | 51.6 |
| 2009-10                 | 100.0              | 48.2  | 4.4                | 9.7              | 5.7            | 6.3    | 4.5       | 5.1         | 1.2     | 3.9            | 11.0  | 51.8 |
| 2010-11                 | 100.0              | 48.1  | 4.3                | 9.7              | 5.7            | 6.2    | 4.5       | 5.0         | 1.3     | 4.0            | 11.1  | 51.9 |
| 2011-12                 | 100.0              | 48.0  | 4.3                | 9.7              | 5.8            | 6.2    | 4.5       | 5.0         | 1.3     | 4.0            | 11.3  | 52.0 |
| 2012-13                 | 100.0              | 47.9  | 4.2                | 9.7              | 5.8            | 6.1    | 4.6       | 5.0         | 1.3     | 4.0            | 11.4  | 52.1 |
| 2013-14                 | 100.0              | 47.8  | 4.2                | 9.7              | 5.8            | 6.1    | 4.6       | 5.0         | 1.3     | 4.0            | 11.4  | 52.2 |
| 2014-15                 | 100.0              | 47.7  | 4.2                | 9.8              | 5.8            | 6.1    | 4.6       | 5.0         | 1.3     | 4.0            | 11.5  | 52.3 |
| 2015-16                 | 100.0              | 47.7  | 4.2                | 9.8              | 5.9            | 6.0    | 4.6       | 5.0         | 1.3     | 4.0            | 11.5  | 52.3 |
| 2016-17                 | 100.0              | 47.6  | 4.1                | 9.8              | 5.9            | 6.0    | 4.6       | 5.0         | 1.4     | 4.0            | 11.6  | 52.4 |
| 2017-18                 | 100.0              | 47.5  | 4.1                | 9.9              | 5.9            | 6.0    | 4.6       | 5.0         | 1.4     | 4.0            | 11.6  | 52.5 |
| 2018-19                 | 100.0              | 47.4  | 4.1                | 9.9              | 6.0            | 6.0    | 4.6       | 5.0         | 1.4     | 4.0            | 11.7  | 52.6 |
| 2019-20                 | 100.0              | 47.3  | 4.1                | 9.9              | 6.0            | 6.0    | 4.6       | 5.0         | 1.4     | 4.0            | 11.8  | 52.7 |
| 2020-21                 | 100.0              | 47.2  | 4.1                | 9.9              | 6.0            | 5.9    | 4.6       | 5.0         | 1.4     | 4.0            | 11.8  | 52.8 |
| 2021-22                 | 100.0              | 47.1  | 4.1                | 9.9              | 6.1            | 5.9    | 4.6       | 5.1         | 1.4     | 4.0            | 11.9  | 52.9 |
| 2022-23                 | 100.0              | 47.0  | 4.1                | 9.9              | 6.1            | 5.9    | 4.6       | 5.1         | 1.4     | 4.0            | 11.9  | 53.0 |
| 2023-24                 | 100.0              | 46.9  | 4.1                | 10.0             | 6.1            | 5.9    | 4.6       | 5.1         | 1.4     | 4.0            | 12.0  | 53.1 |
| 2024-25                 | 100.0              | 46.8  | 4.0                | 10.0             | 6.1            | 5.9    | 4.6       | 5.1         | 1.4     | 4.0            | 12.0  | 53.2 |
| 2025-26                 | 100.0              | 46.7  | 4.0                | 10.0             | 6.1            | 5.9    | 4.7       | 5.1         | 1.4     | 4.0            | 12.1  | 53.3 |

### ***Births by ethnicity of infant***

A summary of Greater London births by ethnicity of infant over the projection period is shown in Table 3a. For All Ethnicities the trends over the historical and projected periods have been discussed in the preceding section.

In terms of ethnicity of infant, all ethnic groups have shown an increase in annual births over the historical period to 2006, except for the Black Caribbean group, which showed a slight decrease. Over this period White births increased by 5,200 (up 9.8 per cent from 2001), whereas BAME births increased by 11,300 (up 22.4 per cent from 2001). The greatest numerical increases for individual BAME groups were 3,600 Other, 1,500 Other Asian, 1,400 Black African, 1,400 Indian, 1,100 Black Other and 1,100 Pakistani. The greatest percentage increases for individual BAME groups were 59.8 per cent for Chinese, 49.4 per cent for Other, 28.5 per cent for Pakistani, 25.9 per cent for Other Asian and 24.0 per cent for Indian.

Over the projected period (2007 to 2026), although annual total births are projected to be stable and virtually unchanged, there is some variation between ethnic groups, but to a much lesser extent than over the historical period. White births are projected to decrease by 1,700 (down 2.9 per cent from 2007), whereas BAME births are projected to increase by 2,600 (up 4.3 per cent from 2007). However, births are projected to fall slowly and steadily for the Black Caribbean group so that by 2026 they will have reduced by 600 (down 11.9 per cent from 2007), and similarly for the Indian group where they will have reduced by 400 (down by 6.1 per cent from 2007). Only one individual BAME group is projected to continue rising appreciably, both numerically and in percentage terms, this being the Other group which will increase by 1,700 births (up 15.3 per cent from 2007). The remaining BAME groups are projected to increase slightly in both numerical and percentage terms, with the exception of the Chinese group for which the percentage rise will be relatively large, arising from a small base number.

Table 3b shows the births by ethnicity of infant in percentage terms for each annual period. In 2001-02 White births were in a slight majority, comprising 51.5 per cent of all births. By the end of the historical period, in 2006, this had virtually reversed with BAME births in a slight majority, comprising 51.2 per cent. The BAME percentage is projected to continue increasing gradually and the White percentage to continue decreasing gradually, such that by 2026 BAME births will comprise 53.0 per cent of all births. Of individual BAME groups, percentages of Black Caribbean and Indian births are projected to fall slightly from 2007 to 2026. The percentage of Other births is projected to increase from 9.0 per cent to 10.2 per cent over this period. For all remaining BAME groups their percentages are projected to remain virtually stable.

Projected births by ethnicity of infant for Greater London are shown graphically in Figure 2.

**Table 3a Total Births by ethnicity of infant: Greater London)**

| Mid-Year to<br>Mid-Year   | All<br>Ethnicities | White  | Black<br>Caribbean | Black<br>African | Black<br>Other | Indian | Pakistani | Bangladeshi | Chinese | Other<br>Asian | Other  | BAME   |
|---|--------------------|--------|--------------------|------------------|----------------|--------|-----------|-------------|---------|----------------|--------|--------|
| 2001-02   | 104,300            | 53,700 | 4,700              | 10,000           | 7,500          | 5,800  | 3,900     | 4,900       | 800     | 5,700          | 7,200  | 50,600 |
| 2002-03   | 108,500            | 55,100 | 4,700              | 10,300           | 7,800          | 6,100  | 4,200     | 5,100       | 900     | 6,100          | 8,100  | 53,400 |
| 2003-04   | 111,600            | 55,900 | 4,700              | 10,600           | 8,000          | 6,400  | 4,400     | 5,300       | 1,000   | 6,400          | 8,900  | 55,700 |
| 2004-05   | 114,600            | 56,700 | 4,600              | 10,900           | 8,200          | 6,700  | 4,600     | 5,400       | 1,100   | 6,700          | 9,700  | 57,900 |
| 2005-06   | 117,900            | 57,900 | 4,700              | 11,200           | 8,400          | 7,000  | 4,900     | 5,600       | 1,200   | 6,900          | 10,300 | 60,100 |
| 2006-07   | 120,900            | 59,000 | 4,700              | 11,400           | 8,600          | 7,100  | 5,000     | 5,700       | 1,300   | 7,200          | 10,800 | 61,900 |
| 2007-08   | 120,900            | 58,700 | 4,600              | 11,300           | 8,600          | 7,100  | 5,100     | 5,800       | 1,300   | 7,200          | 11,100 | 62,200 |
| 2008-09   | 121,700            | 58,900 | 4,500              | 11,400           | 8,700          | 7,100  | 5,100     | 5,800       | 1,400   | 7,300          | 11,400 | 62,800 |
| 2009-10   | 122,500            | 59,200 | 4,500              | 11,500           | 8,700          | 7,200  | 5,200     | 5,800       | 1,500   | 7,400          | 11,600 | 63,300 |
| 2010-11   | 122,900            | 59,300 | 4,400              | 11,500           | 8,700          | 7,200  | 5,200     | 5,800       | 1,500   | 7,500          | 11,800 | 63,600 |
| 2011-12   | 122,900            | 59,200 | 4,400              | 11,500           | 8,800          | 7,100  | 5,200     | 5,800       | 1,500   | 7,500          | 11,900 | 63,800 |
| 2012-13   | 122,700            | 59,000 | 4,300              | 11,500           | 8,800          | 7,100  | 5,200     | 5,800       | 1,600   | 7,500          | 12,000 | 63,700 |
| 2013-14   | 122,400            | 58,700 | 4,300              | 11,500           | 8,800          | 7,000  | 5,200     | 5,800       | 1,600   | 7,500          | 12,000 | 63,700 |
| 2014-15   | 122,100            | 58,500 | 4,300              | 11,500           | 8,800          | 7,000  | 5,200     | 5,800       | 1,600   | 7,500          | 12,100 | 63,600 |
| 2015-16   | 122,000            | 58,400 | 4,200              | 11,500           | 8,800          | 6,900  | 5,200     | 5,800       | 1,600   | 7,500          | 12,100 | 63,700 |
| 2016-17   | 122,000            | 58,200 | 4,200              | 11,600           | 8,800          | 6,900  | 5,200     | 5,800       | 1,600   | 7,500          | 12,100 | 63,700 |
| 2017-18   | 121,900            | 58,100 | 4,200              | 11,600           | 8,800          | 6,900  | 5,200     | 5,800       | 1,600   | 7,500          | 12,200 | 63,800 |
| 2018-19   | 121,700            | 57,900 | 4,200              | 11,600           | 8,900          | 6,800  | 5,200     | 5,800       | 1,600   | 7,500          | 12,200 | 63,800 |
| 2019-20   | 121,600            | 57,800 | 4,200              | 11,600           | 8,900          | 6,800  | 5,200     | 5,800       | 1,600   | 7,500          | 12,200 | 63,800 |
| 2020-21   | 121,500            | 57,700 | 4,200              | 11,600           | 8,900          | 6,800  | 5,200     | 5,800       | 1,600   | 7,500          | 12,300 | 63,900 |
| 2021-22   | 121,600            | 57,600 | 4,200              | 11,700           | 8,900          | 6,800  | 5,200     | 5,800       | 1,600   | 7,500          | 12,300 | 64,000 |
| 2022-23   | 121,600            | 57,500 | 4,100              | 11,700           | 9,000          | 6,700  | 5,300     | 5,800       | 1,600   | 7,500          | 12,300 | 64,100 |
| 2023-24   | 121,600            | 57,400 | 4,100              | 11,700           | 9,000          | 6,700  | 5,300     | 5,900       | 1,600   | 7,500          | 12,400 | 64,300 |
| 2024-25   | 121,700            | 57,300 | 4,100              | 11,700           | 9,000          | 6,700  | 5,300     | 5,900       | 1,600   | 7,500          | 12,400 | 64,400 |
| 2025-26   | 121,800            | 57,300 | 4,100              | 11,800           | 9,100          | 6,700  | 5,300     | 5,900       | 1,600   | 7,500          | 12,500 | 64,500 |
| <b>Change from 2001-02 to 2025-2026 (total period):</b>                   |                    |        |                    |                  |                |        |           |             |         |                |        |        |
| change  | 17,500             | 3,500  | -600               | 1,700            | 1,500          | 900    | 1,400     | 1,000       | 800     | 1,800          | 5,200  | 13,900 |
| change %  | 16.8               | 6.6    | -12.4              | 17.4             | 20.5           | 16.5   | 35.5      | 20.6        | 103.2   | 32.1           | 72.3   | 27.6   |
| <b>Change from 2001-02 to 2006-2007 (over current historical period):</b> |                    |        |                    |                  |                |        |           |             |         |                |        |        |
| change  | 16,600             | 5,200  | 0                  | 1,400            | 1,100          | 1,400  | 1,100     | 800         | 500     | 1,500          | 3,600  | 11,300 |
| change %  | 15.9               | 9.8    | -0.6               | 13.8             | 14.4           | 24.0   | 28.5      | 17.1        | 59.8    | 25.9           | 49.4   | 22.4   |
| <b>Change from 2006-07 to 2025-2026 (over projected period):</b>          |                    |        |                    |                  |                |        |           |             |         |                |        |        |
| change  | 900                | -1,700 | -600               | 400              | 500            | -400   | 300       | 200         | 300     | 400            | 1,700  | 2,600  |
| change %  | 0.8                | -2.9   | -11.9              | 3.2              | 5.3            | -6.1   | 5.4       | 3.0         | 27.2    | 4.9            | 15.3   | 4.3    |

Figures may not add due to rounding

**Table 3b Births by ethnicity of infant: Percentages (Greater London)**

| Mid-Year to<br>Mid-Year | All<br>Ethnicities | White | Black<br>Caribbean | Black<br>African | Black<br>Other | Indian | Pakistani | Bangladeshi | Chinese | Other<br>Asian | Other | BAME |
|-------------------------|--------------------|-------|--------------------|------------------|----------------|--------|-----------|-------------|---------|----------------|-------|------|
| 2001-02                 | 100.0              | 51.5  | 4.5                | 9.6              | 7.2            | 5.5    | 3.8       | 4.7         | 0.8     | 5.5            | 6.9   | 48.5 |
| 2002-03                 | 100.0              | 50.8  | 4.3                | 9.5              | 7.2            | 5.6    | 3.9       | 4.7         | 0.8     | 5.6            | 7.5   | 49.2 |
| 2003-04                 | 100.0              | 50.1  | 4.2                | 9.5              | 7.1            | 5.7    | 3.9       | 4.8         | 0.9     | 5.7            | 8.0   | 49.9 |
| 2004-05                 | 100.0              | 49.5  | 4.0                | 9.5              | 7.1            | 5.8    | 4.0       | 4.7         | 1.0     | 5.8            | 8.4   | 50.5 |
| 2005-06                 | 100.0              | 49.1  | 4.0                | 9.5              | 7.1            | 5.9    | 4.1       | 4.8         | 1.0     | 5.9            | 8.7   | 50.9 |
| 2006-07                 | 100.0              | 48.8  | 3.9                | 9.4              | 7.1            | 5.9    | 4.2       | 4.8         | 1.1     | 5.9            | 9.0   | 51.2 |
| 2007-08                 | 100.0              | 48.6  | 3.8                | 9.4              | 7.1            | 5.9    | 4.2       | 4.8         | 1.1     | 6.0            | 9.2   | 51.4 |
| 2008-09                 | 100.0              | 48.4  | 3.7                | 9.4              | 7.1            | 5.9    | 4.2       | 4.8         | 1.2     | 6.0            | 9.3   | 51.6 |
| 2009-10                 | 100.0              | 48.3  | 3.6                | 9.4              | 7.1            | 5.9    | 4.2       | 4.8         | 1.2     | 6.0            | 9.5   | 51.7 |
| 2010-11                 | 100.0              | 48.2  | 3.6                | 9.4              | 7.1            | 5.8    | 4.3       | 4.8         | 1.2     | 6.1            | 9.6   | 51.8 |
| 2011-12                 | 100.0              | 48.1  | 3.6                | 9.4              | 7.1            | 5.8    | 4.3       | 4.8         | 1.2     | 6.1            | 9.7   | 51.9 |
| 2012-13                 | 100.0              | 48.1  | 3.5                | 9.4              | 7.1            | 5.8    | 4.3       | 4.7         | 1.3     | 6.1            | 9.8   | 51.9 |
| 2013-14                 | 100.0              | 48.0  | 3.5                | 9.4              | 7.2            | 5.7    | 4.3       | 4.7         | 1.3     | 6.1            | 9.8   | 52.0 |
| 2014-15                 | 100.0              | 47.9  | 3.5                | 9.4              | 7.2            | 5.7    | 4.3       | 4.7         | 1.3     | 6.1            | 9.9   | 52.1 |
| 2015-16                 | 100.0              | 47.8  | 3.5                | 9.5              | 7.2            | 5.7    | 4.3       | 4.7         | 1.3     | 6.1            | 9.9   | 52.2 |
| 2016-17                 | 100.0              | 47.7  | 3.5                | 9.5              | 7.2            | 5.6    | 4.3       | 4.7         | 1.3     | 6.1            | 9.9   | 52.3 |
| 2017-18                 | 100.0              | 47.7  | 3.4                | 9.5              | 7.3            | 5.6    | 4.3       | 4.7         | 1.3     | 6.1            | 10.0  | 52.3 |
| 2018-19                 | 100.0              | 47.6  | 3.4                | 9.5              | 7.3            | 5.6    | 4.3       | 4.8         | 1.3     | 6.1            | 10.0  | 52.4 |
| 2019-20                 | 100.0              | 47.5  | 3.4                | 9.5              | 7.3            | 5.6    | 4.3       | 4.8         | 1.3     | 6.2            | 10.1  | 52.5 |
| 2020-21                 | 100.0              | 47.5  | 3.4                | 9.6              | 7.3            | 5.6    | 4.3       | 4.8         | 1.3     | 6.2            | 10.1  | 52.5 |
| 2021-22                 | 100.0              | 47.4  | 3.4                | 9.6              | 7.3            | 5.6    | 4.3       | 4.8         | 1.3     | 6.2            | 10.1  | 52.6 |
| 2022-23                 | 100.0              | 47.3  | 3.4                | 9.6              | 7.4            | 5.5    | 4.3       | 4.8         | 1.3     | 6.2            | 10.2  | 52.7 |
| 2023-24                 | 100.0              | 47.2  | 3.4                | 9.6              | 7.4            | 5.5    | 4.3       | 4.8         | 1.3     | 6.2            | 10.2  | 52.8 |
| 2024-25                 | 100.0              | 47.1  | 3.4                | 9.6              | 7.4            | 5.5    | 4.4       | 4.8         | 1.3     | 6.2            | 10.2  | 52.9 |
| 2025-26                 | 100.0              | 47.0  | 3.4                | 9.6              | 7.4            | 5.5    | 4.4       | 4.9         | 1.3     | 6.2            | 10.2  | 53.0 |

***Redistributed births (births by ethnicity of infant – births by ethnicity of mother)***

Table 4a lists the transfer of births between ethnicity of mother and ethnicity of infant for 'All Ethnicities' and for each ethnic group, for each annual period over the projection period. The 'All Ethnicities' column is the total number of transfers, and is equal to the numerical sum of gains by ethnic group of infant or the numerical sum of losses by ethnic group of infant. The 'BAME' column is the total number of transfers minus transfers involving the White group (that is, transfers involving only BAME groups).

Table 4b lists percentages of the redistributed births for each annual period. In the column for 'All Ethnicities' the percentages are relative to total births ('All Ethnicities' in Tables 2a, 3a). In the columns for individual BAME groups and the 'BAME' column the percentages are relative to total redistributed births ('All Ethnicities' in Table 4a).

From 'All Ethnicities' in Table 4a it is seen that, at Greater London level, roughly 4,000 annual births are redistributed by the Transgenerational Ethnicity effect. In detail, the number of redistributed births shows a continuous rising trend from 3,700 in 2001 to 4,600 in 2026. The "All Ethnicities" column in Table 4b indicates these redistributed births constitute 3.5 per cent to 3.8 per cent of total annual births. The 'BAME' column in Table 4b indicates that, in general, over 90 per cent of Transgenerational Ethnicity transfers are between BAME groups only and the balance (the 'White' column) affects the White group. However, over the projection period, the intra-BAME only proportion is seen to rise from 91 per cent in 2001 to almost 100 per cent in 2005 and 2006, and then reduce gradually to 91 per cent by 2026.

Returning to Table 4a for more detail by ethnic group, it shows that the number of transferred births is relatively small for some ethnic groups and larger for others. Over the historical period (2001 to 2006) the White group experiences small (up to about 300) transfers out to BAME groups whereas over the projected period (2007 to 2026) it experiences small (up to 400) but gradually rising transfers in from BAME groups. The White group is the only group experiencing such a transition from losses over the first few annual periods to gains over the remainder of the projection period.

All individual BAME groups experience either gains only or losses only over the entire projection period. The main outcome of the Transgenerational Ethnicity effect is that two BAME groups, Other Asian and Black Other, are the main gainers and the Other group is the main loser of births by ethnicity of infant, with the Black Caribbean group also being a significant loser. Another feature is that the Other Asian group experiences a significant rising trend in numbers of gains and a stable proportion of total transfers, whereas the Black Other group experiences gradually decreasing trends in numbers of gains and in proportion of total transfers. Hence, at the beginning of the projection period both of these major gaining groups gain approaching 2000 births (around 50 per cent each of total transfers), but by the end of the projection period the gains for the Black Other group have declined in number to around 1,500 (34 per cent of total transfers), whereas for the Other Asian group the transfers have increased in number to around 2,600 (57 per cent of total transfers). Over time, therefore, the Other Asian group becomes an increasingly dominant gainer of births by ethnicity of infant arising from Transgenerational Ethnicity.

The main losing group, the Other group, experiences a significant increase in numbers of losses over time (from around 900 to 2,000) and also as a proportion of total transfers (from 24 per cent to 49 per cent). The Other group is therefore the continuing main heavy loser of births by ethnicity of infant arising from Transgenerational Ethnicity.

Over the projection period, the Black Caribbean losses are stable in terms on numbers (around 800), but represent a gradually declining proportion of total transfers (from 23 per cent to 17 per cent).

For the Black African, Indian, Pakistani and Bangladeshi groups the losses are similarly moderate and stable in number (ranging from 300 to 500), and are also reasonably stable as proportions of total transfers (between 7 per cent and 12 per cent) over time.

The Chinese group experiences the least losses, which decline in number from 100 to 20 over the projection period, and correspondingly from 1.5 per cent to 0.5 per cent as a proportion of total transfers.

Projected births by ethnicity of mother and of infant are compared graphically in Figures 1 and 2.

**Table 4a Redistributed births (births by ethnicity of infant - births by ethnicity of mother):  
Figures (Greater London)**

| Mid-Year to<br>Mid-Year | All<br>Ethnicities | White | Black<br>Caribbean | Black<br>African | Black<br>Other | Indian | Pakistani | Bangladeshi | Chinese | Other<br>Asian | Other  | BAME <sup>1</sup> |
|-------------------------|--------------------|-------|--------------------|------------------|----------------|--------|-----------|-------------|---------|----------------|--------|-------------------|
| 2001-02                 | 3,660              | -320  | -850               | -470             | 1,770          | -500   | -290      | -260        | -110    | 1,890          | -870   | 3,340             |
| 2002-03                 | 3,810              | -210  | -860               | -470             | 1,780          | -510   | -300      | -270        | -100    | 2,030          | -1,100 | 3,600             |
| 2003-04                 | 3,910              | -120  | -860               | -460             | 1,770          | -500   | -310      | -290        | -90     | 2,140          | -1,290 | 3,800             |
| 2004-05                 | 4,020              | -50   | -860               | -450             | 1,770          | -500   | -320      | -300        | -80     | 2,250          | -1,450 | 3,960             |
| 2005-06                 | 4,130              | -20   | -880               | -440             | 1,770          | -510   | -330      | -310        | -70     | 2,350          | -1,570 | 4,110             |
| 2006-07                 | 4,250              | 20    | -890               | -440             | 1,780          | -510   | -340      | -320        | -70     | 2,450          | -1,680 | 4,230             |
| 2007-08                 | 4,290              | 60    | -880               | -430             | 1,750          | -500   | -350      | -330        | -60     | 2,490          | -1,750 | 4,240             |
| 2008-09                 | 4,350              | 90    | -880               | -420             | 1,730          | -490   | -350      | -340        | -60     | 2,530          | -1,800 | 4,260             |
| 2009-10                 | 4,390              | 110   | -880               | -420             | 1,710          | -490   | -350      | -350        | -50     | 2,570          | -1,850 | 4,280             |
| 2010-11                 | 4,420              | 130   | -870               | -420             | 1,700          | -490   | -350      | -350        | -50     | 2,600          | -1,890 | 4,290             |
| 2011-12                 | 4,440              | 150   | -860               | -420             | 1,680          | -480   | -350      | -350        | -50     | 2,610          | -1,920 | 4,290             |
| 2012-13                 | 4,450              | 160   | -860               | -420             | 1,670          | -470   | -350      | -350        | -40     | 2,620          | -1,950 | 4,280             |
| 2013-14                 | 4,440              | 180   | -860               | -420             | 1,650          | -460   | -340      | -360        | -40     | 2,610          | -1,960 | 4,270             |
| 2014-15                 | 4,440              | 190   | -850               | -420             | 1,640          | -460   | -340      | -360        | -40     | 2,610          | -1,970 | 4,250             |
| 2015-16                 | 4,440              | 200   | -850               | -420             | 1,630          | -450   | -340      | -360        | -30     | 2,610          | -1,980 | 4,240             |
| 2016-17                 | 4,450              | 220   | -840               | -420             | 1,620          | -450   | -340      | -360        | -30     | 2,610          | -2,000 | 4,230             |
| 2017-18                 | 4,460              | 240   | -830               | -420             | 1,610          | -440   | -340      | -360        | -30     | 2,610          | -2,030 | 4,220             |
| 2018-19                 | 4,470              | 270   | -830               | -420             | 1,590          | -440   | -350      | -350        | -30     | 2,610          | -2,050 | 4,210             |
| 2019-20                 | 4,490              | 290   | -820               | -420             | 1,590          | -440   | -350      | -350        | -30     | 2,620          | -2,080 | 4,200             |
| 2020-21                 | 4,510              | 310   | -820               | -420             | 1,580          | -440   | -350      | -340        | -30     | 2,620          | -2,110 | 4,200             |
| 2021-22                 | 4,530              | 330   | -810               | -420             | 1,570          | -440   | -360      | -340        | -30     | 2,630          | -2,150 | 4,200             |
| 2022-23                 | 4,550              | 350   | -800               | -420             | 1,570          | -430   | -360      | -340        | -20     | 2,630          | -2,180 | 4,200             |
| 2023-24                 | 4,570              | 370   | -800               | -420             | 1,570          | -430   | -360      | -330        | -20     | 2,630          | -2,210 | 4,200             |
| 2024-25                 | 4,590              | 390   | -790               | -420             | 1,570          | -430   | -360      | -330        | -20     | 2,640          | -2,230 | 4,200             |
| 2025-26                 | 4,610              | 400   | -790               | -420             | 1,560          | -430   | -360      | -330        | -20     | 2,640          | -2,250 | 4,210             |

Figures may not add due to rounding

<sup>1</sup> Excluding transfers to or from the White group

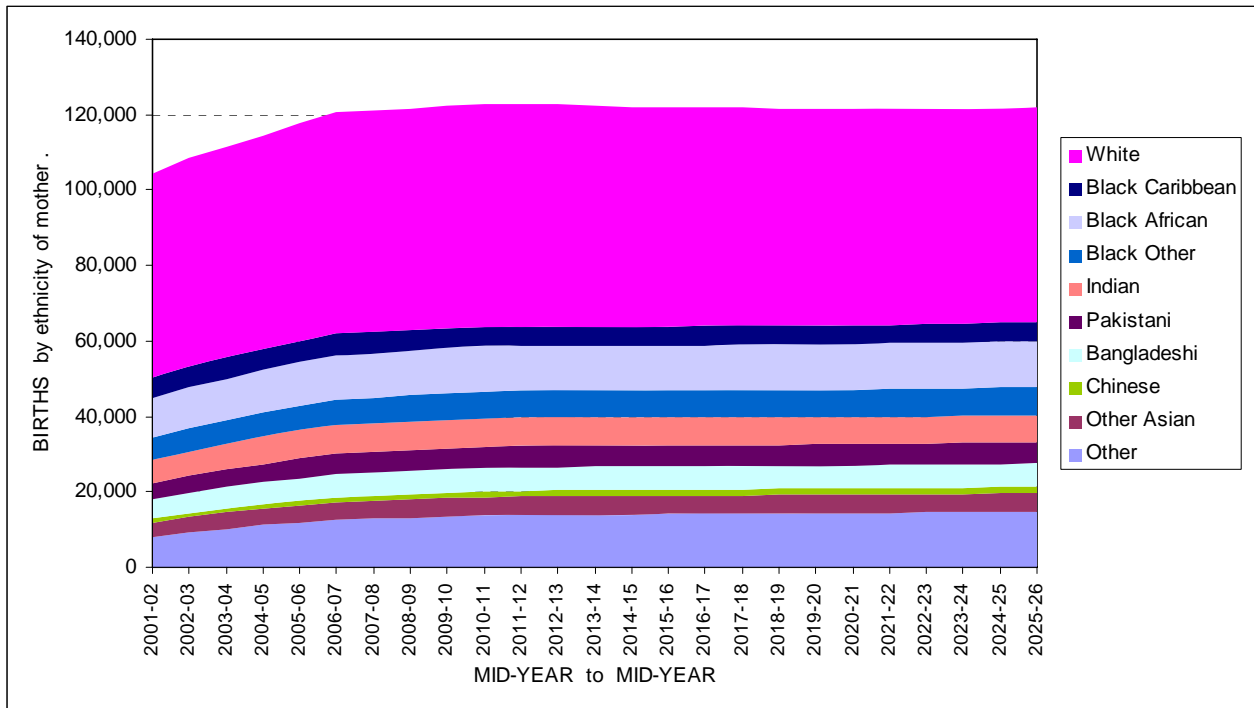
**Table 4b Redistributed births (births by ethnicity of infant - births by ethnicity of mother):  
Percentages (Greater London)**

| Mid-Year to<br>Mid-Year | All <sup>1</sup><br>Ethnicities | White <sup>2</sup> | Black <sup>2</sup><br>Caribbean | Black <sup>2</sup><br>African | Black <sup>2</sup><br>Other | Indian <sup>2</sup> | Pakistani <sup>2</sup> | Bangla <sup>2</sup><br>-deshi | Chinese <sup>2</sup> | Other <sup>2</sup><br>Asian | Other <sup>2</sup> | BAME <sup>2</sup> |
|-------------------------|---------------------------------|--------------------|---------------------------------|-------------------------------|-----------------------------|---------------------|------------------------|-------------------------------|----------------------|-----------------------------|--------------------|-------------------|
| 2001-02                 | 3.5                             | -8.7               | -23.2                           | -12.8                         | 48.3                        | -13.7               | -7.9                   | -7.0                          | -2.9                 | 51.7                        | -23.8              | 91.3              |
| 2002-03                 | 3.5                             | -5.5               | -22.5                           | -12.3                         | 46.8                        | -13.3               | -7.9                   | -7.2                          | -2.6                 | 53.2                        | -28.8              | 94.5              |
| 2003-04                 | 3.5                             | -3.0               | -21.9                           | -11.6                         | 45.3                        | -12.9               | -7.9                   | -7.4                          | -2.3                 | 54.7                        | -33.0              | 97.0              |
| 2004-05                 | 3.5                             | -1.4               | -21.4                           | -11.2                         | 44.1                        | -12.5               | -7.9                   | -7.4                          | -2.0                 | 55.9                        | -36.2              | 98.6              |
| 2005-06                 | 3.5                             | -0.5               | -21.2                           | -10.7                         | 43.0                        | -12.3               | -8.0                   | -7.5                          | -1.8                 | 57.0                        | -38.0              | 99.5              |
| 2006-07                 | 3.5                             | 0.5                | -20.8                           | -10.3                         | 41.8                        | -12.1               | -8.1                   | -7.6                          | -1.6                 | 57.7                        | -39.5              | 99.5              |
| 2007-08                 | 3.5                             | 1.3                | -20.5                           | -9.9                          | 40.7                        | -11.7               | -8.0                   | -7.7                          | -1.5                 | 58.0                        | -40.7              | 98.7              |
| 2008-09                 | 3.6                             | 2.0                | -20.2                           | -9.7                          | 39.8                        | -11.4               | -8.0                   | -7.8                          | -1.3                 | 58.2                        | -41.5              | 98.0              |
| 2009-10                 | 3.6                             | 2.5                | -19.9                           | -9.6                          | 39.0                        | -11.2               | -8.0                   | -7.9                          | -1.2                 | 58.5                        | -42.1              | 97.5              |
| 2010-11                 | 3.6                             | 2.9                | -19.7                           | -9.5                          | 38.4                        | -11.0               | -8.0                   | -7.9                          | -1.1                 | 58.7                        | -42.8              | 97.1              |
| 2011-12                 | 3.6                             | 3.4                | -19.4                           | -9.5                          | 37.9                        | -10.8               | -7.9                   | -8.0                          | -1.0                 | 58.8                        | -43.3              | 96.6              |
| 2012-13                 | 3.6                             | 3.7                | -19.3                           | -9.6                          | 37.5                        | -10.6               | -7.8                   | -8.0                          | -1.0                 | 58.8                        | -43.7              | 96.3              |
| 2013-14                 | 3.6                             | 4.0                | -19.2                           | -9.6                          | 37.2                        | -10.4               | -7.8                   | -8.0                          | -0.9                 | 58.8                        | -44.1              | 96.0              |
| 2014-15                 | 3.6                             | 4.3                | -19.2                           | -9.6                          | 37.0                        | -10.3               | -7.7                   | -8.1                          | -0.8                 | 58.8                        | -44.3              | 95.7              |
| 2015-16                 | 3.6                             | 4.5                | -19.0                           | -9.6                          | 36.7                        | -10.2               | -7.7                   | -8.1                          | -0.8                 | 58.7                        | -44.7              | 95.5              |
| 2016-17                 | 3.6                             | 5.0                | -18.9                           | -9.5                          | 36.4                        | -10.1               | -7.7                   | -8.1                          | -0.7                 | 58.6                        | -45.0              | 95.0              |
| 2017-18                 | 3.7                             | 5.5                | -18.7                           | -9.5                          | 36.0                        | -10.0               | -7.7                   | -8.0                          | -0.7                 | 58.5                        | -45.4              | 94.5              |
| 2018-19                 | 3.7                             | 6.0                | -18.5                           | -9.4                          | 35.6                        | -9.9                | -7.8                   | -7.9                          | -0.7                 | 58.4                        | -45.9              | 94.0              |
| 2019-20                 | 3.7                             | 6.4                | -18.4                           | -9.3                          | 35.3                        | -9.8                | -7.8                   | -7.7                          | -0.6                 | 58.3                        | -46.4              | 93.6              |
| 2020-21                 | 3.7                             | 6.8                | -18.1                           | -9.3                          | 35.1                        | -9.7                | -7.8                   | -7.6                          | -0.6                 | 58.1                        | -46.9              | 93.2              |
| 2021-22                 | 3.7                             | 7.3                | -17.9                           | -9.2                          | 34.7                        | -9.6                | -7.8                   | -7.5                          | -0.6                 | 57.9                        | -47.4              | 92.7              |
| 2022-23                 | 3.7                             | 7.7                | -17.6                           | -9.1                          | 34.5                        | -9.5                | -7.8                   | -7.4                          | -0.5                 | 57.8                        | -47.9              | 92.3              |
| 2023-24                 | 3.8                             | 8.1                | -17.4                           | -9.1                          | 34.3                        | -9.5                | -7.8                   | -7.3                          | -0.5                 | 57.6                        | -48.3              | 91.9              |
| 2024-25                 | 3.8                             | 8.4                | -17.3                           | -9.1                          | 34.1                        | -9.4                | -7.8                   | -7.3                          | -0.5                 | 57.5                        | -48.6              | 91.6              |
| 2025-26                 | 3.8                             | 8.8                | -17.2                           | -9.1                          | 33.9                        | -9.4                | -7.8                   | -7.2                          | -0.5                 | 57.3                        | -48.9              | 91.2              |

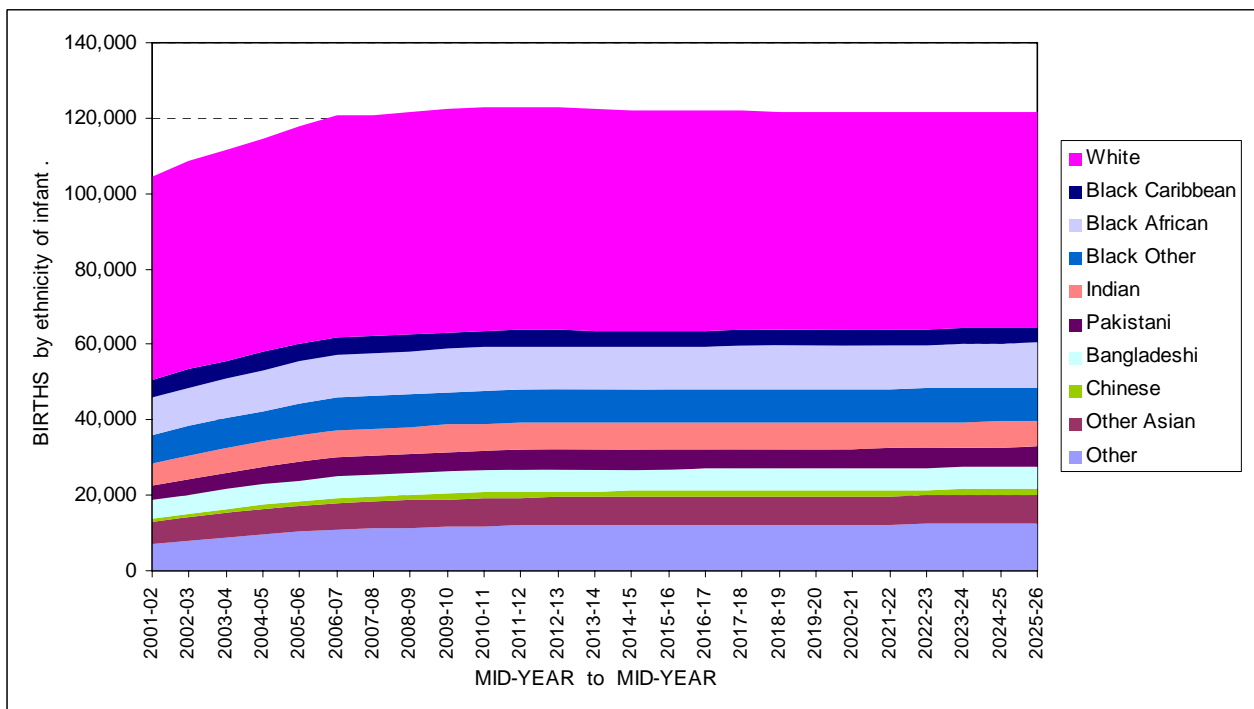
<sup>1</sup> Percentage of total births ("All Ethnicities" in Tables 2a, 3a)

<sup>2</sup> Percentage of total redistributed births ("All Ethnicities" in Table 4a)

**Figure 1 Births by ethnicity of mother (Greater London)**



**Figure 2 Births by ethnicity of infant (Greater London)**



For more information please contact Ed Klodawski, Data Management and Analysis Group,  
 Greater London Authority, City Hall, The Queen’s Walk, London SE1 2AA  
 Tel: 020 7983 4694 e-mail: <mailto:demography@london.gov.uk>

Data produced in this briefing have been reproduced with the permission of the Controller of Her Majesty’s Stationery Office and are © Crown Copyright. All data in this document are produced by the Office for National Statistics.