

# International migration, population growth and households in the UK

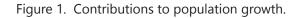
# Summary

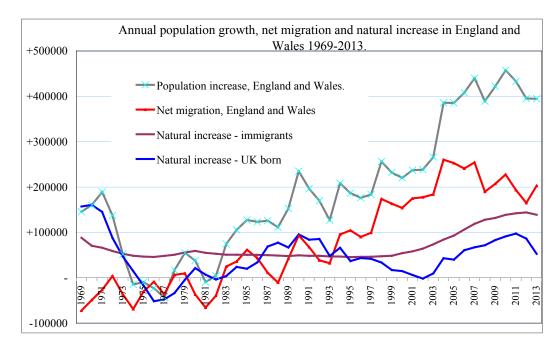
1. This paper estimates the contribution of international migration to the increase in the number of households<sup>1</sup> in the UK since 1992. It uses data from the Labour Force Surveys to estimate the change over time in the proportion of households headed by persons born outside the United Kingdom. It concludes that 65% of UK household growth from 1996 to 2014 was the direct consequence of international migration to the UK. That will have had a significant impact on the demand for housing. Between 2010 and 2014, households headed by persons born in the UK increased by 32,000 per year on average; households headed by persons born outside the UK by 115,000 or 78%. On present trends immigration will continue to be a major factor in housing demand.

# Migration and population growth

2. International migration is now the chief driver of population growth in the UK. This is relatively new. In most years until the late 1980s net migration was negative. But from 1991 to 2001 net international migration rose to account directly for 44 percent of the increase in the population of the UK and by 2001-2013 for 56 percent. This figure takes no account of the children of immigrants born in the UK who are an important component of population growth. Population growth arises from net migration and from the excess of births over deaths (that is, the 'natural increase' of the population). Figure 1 shows the annual contribution to population growth in England and Wales from net migration, from births and deaths of people born in the UK and from the births and deaths to immigrants born outside the UK, from 1969 to 2012. Net migration has been the dominant component of population growth since about 1997 and the natural increase of the UK- born population of England and Wales has contributed the least<sup>2</sup>.

<sup>1</sup> For the 2011 census a household was defined as : 'one person living alone; or a group of people (not necessarily related) living at the same address who share cooking facilities and share a living room or sitting room or dining area'. 2 Calculations of natural increase are easier for England and Wales, which comprises 89% of the population of the UK. The need to refer to data for England and Wales, or England alone, as a surrogate for UK-wide data reflects the weakness of our national statistics and will be a recurrent feature of this paper.





Source: data from Office of National Statistics.

# Household growth, population growth and migration

3. Growth in the number of households is driven by population growth, changes in the age-structure of the population, social changes including trends in cohabitation, marriage and divorce, and birth and death rates. Market forces, especially the housing market, play an important role. All of these, operating on each other in a circular fashion, influence the number of people living by themselves and in households of different sizes. For most of the 20<sup>th</sup> century the number of households rose faster than population growth, as average household size fell: in England and Wales from 4.32 persons in 1911 to 2.42 in 1991 (ONS 2011). Family size has declined and the proportion of one-person households has more than doubled since 1961. Households of three people or more have become relatively less frequent.

4. More recently, those social trends have slowed. Since the 1990s average household size has changed little (Holmans 2014, ONS 2011, 2014) and in recent years population growth<sup>3</sup> has accounted for more and more of the increase in the number of households. From 2001 and 2011 single-person households increased less than expected, more middle and older-age persons lived in multi-person households. More young people continued to live with their parents. Marriage and union formation, and home ownership, have been delayed. Housing shortages, and housing costs, have contributed to these trends. The unusually large number of immigrants in recent years, although now dominating household formation, did not generate a proportionate increase in the number of households. Immigrants have had household formation rates initially lower, at any given age, than that of the population as a whole, because their household size tends to be larger (Holmans 2013). Basic data on household population and households from 1961 to 2011 for England and Wales are given in Table 1 (As noted above, data for England and Wales are often more readily available than for the UK).

<sup>3</sup> The relevant population here is the household population; that part of the population living in private households, not in communal establishments of various kinds. For example in 2011 the total population of England and Wales was 56.1 million while the household population was 55.1 million, the latter being almost 2 percent smaller than the total population.

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#### Household population and households,

England and Wales 1961-2011.							
	household		mean				
year of	population	households	household				
census	(thousands)	(thousands)	size				
1961 1971 1981 1991 2001 2011	44853 47296 47948 49135 51108 55071	14641 16434 17706 20279 21660 23366	3.06 2.88 2.71 2.42 2.36 2.36				
2011	55071	23366	2.36				

Source: ONS 2012 2011 Census - Population and Household Estimates for England and Wales, March 2011. Data from Figure 9, Number of household residents and households, 1911 – 2011. 16 July 2012. https://www.gov.uk/government/statistical-data-sets/live-tables-on-household-projections

5. Since the 1990s the increase in the number of households has mostly been due to population growth. From being nearly zero in the 1980s, population growth in England and Wales has greatly increased, mostly through the contributions of international migration, directly through net migration and indirectly through the natural increase of the immigrant population (Figure 1). In the decade up to 2011, the household population grew by 3.96 million or 7.8%, the greatest increase ever (ONS 2012; Figures 1, 9 and 10) and the highest intercensal percentage growth since the 19th century.

6. Government statisticians have not analysed the relative quantitative roles of population growth, migration and of social trends in past and current household formation and there seems to be no prospect of their doing so (ONS reply to Parliamentary Question HL4978, February 2015). However, an academic analysis has shown that population increase alone accounted for 39% of the increase in households in England from 1961-1971, for 43% from 1971-81 and for 68% from 1981- 1991. That specific calculation is not available beyond 1991, but the combination of population increase and changes in age-structure and marital status together accounted for 68% of household growth from 1991 – 2001 and for 97% from 2001 to 2011 (Holmans 2014; table 1, page 3). And the author has commented that the 1990s has seen 'a new era in household projections: near dominance by the migration assumption in the underlying population projection.' (Holmans 2014, p.8). If household trends are considered just in one big step from 1971 to 2008 (Schmuecker 2010, p. 10) these important changes are obscured.

7. The powerful influence of international migration on population growth, over one half in most recent years, suggests that a substantial and increasing element of household growth in the UK must come from net migration. In the absence of official estimates on the role of migration in these trends, some light can be thrown on this issue by examining some direct data from the Labour Force Surveys on the relative proportion of new households with heads born within, and outside, the United Kingdom.

## Labour Force Surveys

8. The Quarterly Labour Force Surveys (QLFS) and the earlier annual (initially biennial) Labour Force Surveys have been the chief source of regular official data on employment and personal circumstances in the UK since 1973. Held quarterly since 1992, each quarterly sample of 60,000 private households is spread over five successive quarters. Sample numbers of interviews are grossed up to national (UK) population totals by weighting procedures. The population numbers, not the sample numbers, are given in Table 2 below.

9. The QLFS is available in two forms of weighting. One is more suitable for the analysis of individual characteristics. There is also a twice-yearly household dataset, instituted in 1990, more suited to analysis at the level of the household<sup>4</sup>. The annual April-June household datasets were used in this analysis. The sample size is very large: for example the 2014 April-June household dataset comprised 103,269 persons of whom 41,644 (40.3%) were 'household reference persons (HRP)'<sup>5</sup> representing therefore 41,644 households. Those are grossed up to 26 million households for analysis at the UK level. The number of 'household reference persons' is very similar to the number of occupied dwellings.

10. Data from successive QLFS show in successive years the relative number of households identified as having a 'household reference person (HRP)' born respectively in the UK, and born outside the UK (Here, the terms 'immigrant' and 'born outside the UK' are used synonymously). Recent QLFS show that the majority of new households in the UK in each year now have an immigrant 'household reference person' (Table 2)<sup>6</sup>. From 1990 to 2014 the number of households in the UK increased by 4.1 million, for which information on country of birth is available for 4.0 million. Households with an immigrant reference person accounted for 2.1 million (53%) of that increase of four million households.

11. The immigrant share of household increase has grown further in more recent years following the upsurge of net migration from the late 1990s. Of the 2.7 million increase in all households from 1997 to 2014 (with information on country of birth), 1.8 million (65%) had an immigrant household reference person. Overall, in 2014 14% of UK households had an immigrant household reference person compared with 7% in 1990. The QLFS household dataset does not extend back before 1990. However the conventional person-level LFS before 1990 (which somewhat overstates the number of all households) shows that the proportion of households headed by immigrants had been roughly constant at 7-8 percent of all households during the 1980s. Note that these data from the Labour Force Surveys do not include the contribution of the children of immigrants born in the UK to household formation, only that of the immigrants themselves. The former information cannot be derived from QLFS data.

12. There is wide variation in the size of immigrant households but on average their average household size is greater and they are more likely to live in overcrowded conditions (see paragraph 17). So, person for person, immigrants have required less housing than the UK born. However, the data presented here relates directly to the number of households and thus completely takes that into account. For example, a house containing a large number of young Eastern Europeans is one household in the Labour Force Survey; as is one person living alone.

<sup>4</sup> Non-responders are not included in the person-level weighting. Accordingly a two-person household with a non-responder is treated as a single-person household. That gives such households a higher weight, changing the ratio between households and population and inflating the estimate of the overall number of households.

<sup>5</sup> The Head of Household (HoH), or the Household Reference Person (HRP in more modern usage) is the individual that is taken to represent the household for statistical purposes in censuses and surveys. The definition of the household reference person has changed over time from being the eldest male within a household to the eldest person within a household. The number of households recorded by the QLFS differs by up to 2% from the number recorded in the census of the same year.

<sup>6</sup> Not all persons living in a household with a reference person born outside the UK will themselves have been born outside the UK. Many children will not be, and some adults. Likewise there will be persons born outside the UK who live in households with a UK-born reference person. The LFS cannot tell us how many. In 2014 13% of all UK (household) persons had been born outside the UK compared with 14% of all heads of household. That makes a ratio of 2.21 immigrants for every immigrant-headed household compared with an average ratio of 2.38.

UK 1990 - 2014. Trend in number of households where the household reference person is born in the UK, and born outside the UK. Source: QLFS household datasets (A-J).

	HRP = Household Reference Person.									
	All	All	Country of b	oirth of HRP			Increase	since 1990	Increase s	ince 1997
	households	households			Percen	t in year	UK	Non-UK	UK	Non-UK
	(= number	with	UK	Non-UK	UK	Non-UK	HRP	HRP	HRP	HRP
year	of HRPs.)	birthplace	HRP	HRP	HRP	HRP	percent	percent	percent	percent
		data					of total	of total	of total	of total
1990	22632977	22554017	20,954,467	1,599,550	92.9	7.1	total	total	total	total
1991							increase	increase	increase	increase
1992	22928195	22923705	21,051,465	1,872,240	91.8	8.2	26.2	73.8		
1993	23274615	23266183	21,417,973	1,848,210	92.1	7.9	65.1	34.9		
1994	23473688	23469226	21,607,625	1,861,598	92.1	7.9	71.4	28.6		
1995	23574833	23570516	21,724,659	1,845,857	92.2	7.8	75.8	24.2		
1996	23679338	23441496	21,625,624	1,815,872	92.3	7.7	75.6	24.4		
1997	23865101	23864658	21,890,783	1,973,875	91.7	8.3	71.4	28.6		
1998	24035719	24033592	21,961,797	2,071,795	91.4	8.6	68.1	31.9	42.0	58.0
1999	24209083	24206341	22,140,739	2,065,602	91.5	8.5	71.8	28.2	73.2	26.8
2000	24396176	24393612	22,218,648	2,174,964	91.1	8.9	68.7	31.3	62.0	38.0
2001	24534942	24179693	22,013,279	2,166,414	91.0	9.0	65.1	34.9	38.9	61.1
2002	24791613	24787096	22,502,300	2,284,796	90.8	9.2	69.3	30.7	66.3	33.7
2003	24917072	24914196	22,534,547	2,379,649	90.4	9.6	66.9	33.1	61.3	38.7
2004	24993339	24988379	22,595,797	2,392,582	90.4	9.6	67.4	32.6	62.7	37.3
2005	25217401	25211544	22,651,790	2,559,754	89.8	10.2	63.9	36.1	56.5	43.5
2006	25378875	25377908	22,609,482	2,768,426	89.1	10.9	58.6	41.4	47.5	52.5
2007	25608505	25602723	22,667,871	2,934,852	88.5	11.5	56.2	43.8	44.7	55.3
2008	25875379	25871603	22,759,090	3,112,513	88.0	12.0	54.4	45.6	43.3	56.7
2009	25837134	25831895	22,681,168	3,150,727	87.8	12.2	52.7	47.3	40.2	59.8
2010	26239816	26235458	22,968,354	3,267,104	87.5	12.5	54.7	45.3	45.5	54.5
2011	26408609	25727240	22,386,157	3,341,083	87.0	13.0	45.1	54.9	26.6	73.4
2012	26613985	26605888	23,099,539	3,506,349	86.8	13.2	52.9	47.1	44.1	55.9
2013	26653956	26645311	22,981,055	3,664,256	86.2	13.8	49.5	50.5	39.2	60.8
2014	26702837	26569878	22,842,338	3,727,540	86.0	14.0	47.0	53.0	35.2	64.8

Note: The figures for the total number of households in column 2 differ slightly from the official figures given in the ONS Families and Households release of 15 January 2015. In the latter the numbers are rounded to the nearest thousand and there a small number of other minor discrepancies.

http://www.ons.gov.uk/ons/rel/family-demography/families-and-households/2014/rft-1--families-and-households--2014.xls

13. The table shows a relatively progressive but not perfectly smooth increase in the proportion of households headed by immigrants in successive years. If three-year averages are taken centered on 1992, 1997 and 2013 in order to smooth the variability, the headline figures cited above become 51 percent and 59 percent respectively. Data for the census years 2001 and 2011 are somewhat anomalous, each showing a big but transient increase in the apparent proportion of new households headed by immigrants. The reason for this is unknown, but those years both had an unusually large number of missing values for the variable 'country of birth of the household reference person': 1.4 million in 2001 and 3.2 million in 2011 (grossed up figures). In most years this would be about 100,000.

14. The data show a progressive increase, year by year, in the number of new households with household reference persons born outside the UK, and a diminution in the annual number of new households with a household reference person born in the UK. Numbers from one year to the next are rather irregular, in part because they are the differences between successive grossed-up samples. Table 3 below shows the annual averages for groups of five years (except 1990-1994), which smooths out much of the irregularity.

UK 1990-2014							
Average annual increase in number of households according							
to the country of birth of the household reference person.							
	Average	Average	Average				
	annual	annual	annual				
	increase in	increase in	increase in				
	households	households	households	Percent with	Percent with		
5-year period	total	with a UK	with a non- UK	UK	non- UK		
(except		born HRP	born HRP	born HRP	born HRP		
1990-1994)							
1990-1994	305069	217719	87349	71.4	28.6		
1995-1999	147424	106623	40801	72.3	27.7		
2000-2004	156408	91012	65396	58.2	41.8		
2005-2009	168703	17074	151629	10.1	89.9		
2010-2014	147597	32234	115363	21.8	78.2		
Source: QLFS	household data						
Note: 1990-1994 includes only the differences							
between the years 1990, 1992, 1993, 1994.							

At the beginning of the period, the annual increase in new households with a household reference person born in the UK greatly exceeded the number with a household reference person born outside the UK. By the end of the period, the reverse was the case. 78 % of new households in the last five years had an overseas-born head while the number of new households with a UK born head had fallen to 22 % of the total.

## Interpretation and caveats

15. The translation of household formation into housing demand and construction is complex. New dwellings are not just required for the additional households. They are also needed to replace old, inadequate, worn out or badly planned buildings, notably on local authority estates, or to provide for shifts in the geographical distribution of population, even in the absence of growth of populations or households. A single dwelling can accommodate two or more households, each with its own 'occupied household space'. The 2011 census recorded that 21,000 dwellings (0.09 percent) contained two or more occupied household spaces. In England in 2012 there were estimated to be about 2.6 million 'concealed households' (Bramley et al. 2010); that is, families or persons living within an existing households who might be considered to be 'households in waiting', and about 3% of households were deemed to be overcrowded.

16. The number of new dwellings completed has averaged 180,000 a year since 1996, although in recent years this has fallen to 140,000 a year (DCLG 2015). This compares with an average additional household growth of around 170,000 since 1996. Had the number of dwellings completed been higher then it is likely that household formation would also have been higher as those living as 'concealed households' would have been more able to form their own new household.

17. Household formation is not a uniform process. Some immigrants may take longer to set up independent households than average. Immigrants have a lower propensity to form separate households because they tend to live in larger households (That is, their household representative rate (headship rate) tends to be low<sup>7</sup>; Holmans 2013, table A3 p. 25). Immigrants from some origins favour multi-adult and multi-family households, with a larger than average household size, and fertility rates are generally higher. Some of the fast-growing immigrant populations in London have adapted to shortage of housing by increasing their level of overcrowding (Gordon 2014, p.48) presumably including dwellings with more than one household<sup>8</sup>. We do not know what proportion of households headed by immigrants share the same dwelling. The new immigrants from Eastern Europe, mostly young people (initially) without family come from societies accustomed to small family and household norms. However many, at least to begin with, have been living in shared accommodation and boarding houses and therefore also have low headship rates. Published data on household size according to the country of birth (as opposed to ethnic origin) of the households headed by immigrants translates into demand for housing (Simpson and McDonald 2015). But the LFS data presented here give unequivocal, direct information on the proportion of households headed by immigrants, irrespective of the size of the household.

18. The predominance of immigrant headed households in recent household formation does not imply that most new housing is occupied by immigrant heads. Many immigrant households move into existing urban housing vacated by UK born residents or other immigrants, expanding the numbers and proportions of the overseas-born in urban areas. In London, for example, the population born outside the UK increased by one million (54%), from 1.9 million in 2001 to 3.0 million in 2011 while the UK-born population, including the children of immigrants, diminished. In that decade London lost 72,000 people annually through net out-migration to the rest of the UK (Whitehead 2014, Figure 1). New housing has to be built for those who have departed, which would not otherwise have been required. The UK-born are not dying out; they are moving out, and not being replaced by native incomers to the same extent as in the past (Kaufman and Harris 2014. See Gordon 2014, Whitehead 2014 and

*http://www.migrationwatchuk.org/briefing-paper/7.17* for a discussion of the impact of immigration on London's population).

## Other evidence

19. In response to a parliamentary question (HL610) the ONS has calculated that 66 percent of the 1.96 million increase in households from the 2001 census to the 2011 census had a foreign-born household reference person and 34% had a UK-born household reference person (ONS letter March 2015). It was noted earlier that the 2001 and 2011 LFS data on country of birth were anomalous and give an implausibly high percent of foreign-born HRP. Instead, for comparison we have chosen the average of the LFS data from the neighbouring pair of years of 2000 -2010 and 2002-2012. That calculation gives 63% of household growth over the decade from households with an immigrant HRP and 37% from households with a UK-born HRP. That is a reasonable fit with the census data.

<sup>7</sup> The household representative (or headship) rate is the proportion of adult individuals living in households in any defined group who are heads of household or household representative persons. The lower the rate, the larger the average household size in that group.

<sup>8</sup> In London, while new arrivals in 2001-11 from rich countries did not alter local densities of occupation, average occupation per room of new immigrants from poor countries was about 2.5 times that of established residents. London boroughs with a high proportion of immigrants such as Brent (55%), Newham (54%), Ealing (48%), Harrow (45%) Tower Hamlets (43%) all have the highest levels of household density, with between 5 and 10 percent of households containing six or more persons, along with other towns such as Luton, Slough, Bradford and Leicester with high concentrations of population of South Asian origin (ONS 2012, table 4; ONS 2014, table 6).

#### **Household Projections.**

20. This paper does not deal with projections of future household creation arising from migration. We do not have enough information about household formation rates for immigrant populations to enable accurate projections to be made about its impact on housing demand. The latest household projections for England (DCLG 2015, discussed by Simpson and McDonald 2015)) are disappointing in this regard. The ten- page report lacks detail and omits the variant projections presented in earlier projection volumes. Those used to include a zero-migration variant, which enabled an estimate to be made of the effect of future migration on household formation from the start date of the projection. The last report to do so, the interim projections based on 2008 (DCLG 2010, table 6), published in November 2010, estimated that 36% of housing demand up to 2033 would arise from net migration. But that assumed that net migration would only be 157,000 annually, whereas the actual average inflow from 2001 have been over 200,000 annually. It also estimated that household formation rate would run at 232,000 a year, rather than the 170,000 that has far occurred. Furthermore, that projection assumed that only 72 percent of household growth would come from population factors, not almost all of it according to the later projections and other work (DCLG 2015, Holmans 2014). For the same reasons, the projections given in a recent House of Commons paper (Heath 2014, p. 14) suggest that a rather modest 27.8% of additional households up to 2021/22 could be explained by net migration. But this projection also uses the 2011 interim household projection with the assumptions noted above, and furthermore a net annual migration to England of about 145,000, whereas the average over the last decade has been well over 200,000. The DCLG high migration scenario with net migration at 217,000 gave an estimate of 115,000 new households a year due to future migration. As it happens, the actual average annual increase in households with a household reference person born outside the UK had already reached 115,000 in 2010 - 2014 (Table 3, this paper).

21. In a report for the Town and Country Planning Association, Alan Holmans (2013) estimated that 240,000 to 245,000 additional homes would be required each year to meet newly arising demand and need, a similar estimate to that made by the DCLG (2007) in 'Homes for the Future' and by other analyses (e.g Jefferys et al. 2015). About 25 per cent of housing requirements would be concentrated in London, and 60 per cent in the four southern regions.

22. Projections that meet 'demand and need' must take into account 'backlog need' arising from inadequate levels of housing availability, of which the major component is the 'concealed households' mentioned earlier. 'Backlog need' was estimated to be two million in England in 2009 by Bramley (2010) and likely to diminish only slowly. The policy changes that promoted immigration from the late 1990s were never matched by increased housebuilding to meet the inevitable additional demand. New completions of housing have been in long-term decline for many years (Heath 2014). From about 200,000 around 1990, housing completions in England fell to about 130,000 in 2000-2001, rising to a transient peak of 170,000 in 2007-8 before falling to fewer than 120,000 in 2014 (140,000 for the UK as a whole). That is wholly inadequate to the demand driven by population growth. In the most recent period 2010-2014 new household formation with UK-born heads has been about 32,000. That is well within the level of recent housing construction, however low, although allowances must be made for 'backlog need' and replacement of demolished buildings.

## Conclusion

23. The trends up to the present that have been demonstrated above show that there is a close connection between immigration and new household formation, and therefore demand for housing. In all the fierce controversies about how many dwellings to build, and where to build them, this crucial connection is rarely made. Commentators almost invariably insist that housing supply must be expanded to meet the needs of an expanding population. For the time being that is obviously true. But moderation of that expansion in the future through policies to reduce migration is rarely discussed. For example the possibility of moderating demand through restrictions on immigration features nowhere in the extensive recommendations made by KPMG for Shelter (Jefferys et al. 2015) in order to alleviate housing shortages. Unless there is a radical change in immigration polices and their effectiveness, or other unforeseen events, population growth, driven largely by immigration, will continue to be the driving force behind most new demand for housebuilding.

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