

Canterbury District

Housing Needs Review

Canterbury City Council

April 2015

12777/MS

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Introduction

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This report has been prepared by Nathaniel Lichfield & Partners (NLP) on behalf of Canterbury City Council (CCC). NLP was appointed by CCC in January 2015 to provide a review of the evidence on objectively assessed housing needs within Canterbury as a District.

Scope of the Housing Needs Review

This review has been prepared to a defined scope set out by CCC. It is prepared in the context of the submission version of the Canterbury District Local Plan which sets out a proposed housing requirement of 780 dwellings per annum over the plan period 2011 to 2031. This figure was drawn by the Council using the evidence contained within the 'Canterbury Development Requirements Study' prepared by NLP for the Council in January 2012.

Whilst the Development Requirements Study (DRS) provided evidence assessing locally-led housing needs commensurate to practice at the point of its production, it is an evidence base document that precedes the adoption of the National Planning Policy Framework (NPPF) in March 2012 and before the publication of the Planning Practice Guidance (PPG) in March 2014. It also pre-dates the publication of data from the Census 2011 which enabled the Office for National Statistics (ONS) to re-base and revised many of its demographic and social data sets. For example, the 2012-based household projections were released in February 2015 and represent the first full set of household projections following the Census. Whilst the Development Requirements Study continues to present analysis relevant to the definition and setting of a housing requirement, it does not fully reflect the methodology and approach for assessing need now advocated within the NPPF and PPG and also does not reflect more recent statistical data releases.

This report has therefore been prepared to test and review some of the evidence on the housing needs of the District in a manner consistent with the NPPF and PPG. The purpose is to provide an updated evidence base on housing needs upon which Canterbury City Council can draw conclusions on the objectively assessed need and the extent to which the proposed housing requirement within the submission draft Local Plan meets it. It does this by presenting evidence on a number of scenarios using demographic and employment data sets, also reviewing market signals and other factors which influence housing needs and presenting them in a manner to allow the drawing of conclusions alongside the original findings of the Development Requirement Study.

In the above context, the parameters of this housing needs review are set out below.

Updating Evidence from the Development Requirements Study (Jan 2012) and the East Kent SHMA (2009)

CCC has utilised the evidence from the Development Requirements Study and the Strategic Housing Market Assessment for the East Kent Sub-region ("The East Kent SHMA") to inform the housing strategy within the submission Local Plan. The purpose of this Housing Needs Review report is to update the relevant parts of the above existing evidence base and frame it within the context of the NPPF and PPG. This review does not seek to wholly replace or replicate that earlier evidence, but simply to provide up-to-date and proportionate evidence for the Council on housing needs in light of the most recent data and guidance.

A District-wide Review

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The scope of this housing needs review has been drawn by CCC to focus on Canterbury District and the needs associated with the District. Whilst this does take account of the housing market linkages Canterbury has with other parts of the country, for example through consideration of migratory and commuting relationships, the analysis undertaken narrowly focusses upon the District. CCC will need to consider how this District-wide evidence fits in with evidence of needs across any defined Housing Market Areas.

Testing the Position on Housing Needs

This housing needs review is intended to provide a proportionate evidence base to inform CCC's consideration of a full objective assessment of housing need. The housing needs review is not intended to be a full Strategic Housing Market Assessment (SHMA) and it does not cover a number of key components of a SHMA, such as considering the mix of housing, considering the needs of different groups in the community or considering the specific split of tenure needed. Notwithstanding, it remains a relevant exercise and the judgment in Gallagher Estates Ltd v Solihull MBC acknowledges that (para 94) "in practice, full housing needs might be objectively assessed using data (sic) other than a SHMA". In this context, the focus is on testing the headline position on the overall housing need of the District.

Approach

The NPPF outlines a two-step approach to setting housing requirements in Local Plans. Firstly, to define the full objectively assessed need for development and then secondly, to set this against any adverse impacts or constraints which would mean that need might not be met. This is enshrined in the approach set out in paragraph 14 of the NPPF which sets out the presumption in favour of sustainable development:

"For plan-making this means that:

 local planning authorities should positively seek opportunities to meet the development needs of their area;

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- Local Plans should meet objectively assessed needs, with sufficient flexibility to adapt to rapid change, unless:
 - any adverse impacts of doing so would significantly and demonstrably outweigh the benefits, when assessed against the policies in this Framework taken as a whole; or
 - specific policies in this Framework indicate development should be restricted."
- The NPPF goes on to set out (paragraph 47) that in order that in order to 'boost significantly' the supply of housing that Local Planning Authorities should:

"use their evidence base to ensure that their Local Plan meets the full objectively assessed needs for market and affordable housing in the housing market area, as far as is consistent with the policies set out in the framework..."

The first step is therefore to identify full objectively assessed needs and the NPPF sets out the approach to defining such evidence which is required to underpin a local housing requirement. It sets out (paragraph 159) that in evidencing housing needs:

"Local planning authorities should have a clear understanding of housing needs in their area. They should:

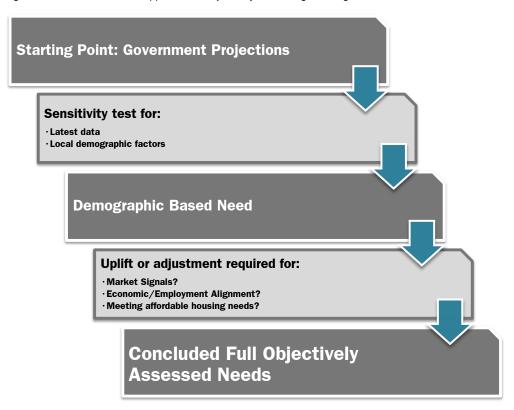
- prepare a Strategic Housing Market Assessment to assess their full housing needs, working with neighbouring authorities where housing market areas cross administrative boundaries. The Strategic Housing Market Assessment should identify the scale and mix of housing and the range of tenures that the local population is likely to need over the plan period which:
 - meets household and population projections, taking account of migration and demographic change;
 - addresses the need for all types of housing, including affordable housing and the needs of different groups in the community (such as, but not limited to, families with children, older people, people with disabilities, service families and people wishing to build their own homes); and
 - caters for housing demand and the scale of housing supply necessary to meet this demand..."
- Furthermore, the core planning principles set out in the NPPF indicate that a planned level of housing to meet objectively assessed needs must respond positively to wider opportunities for growth and should take account of market signals, including housing affordability (paragraph 17).
- The Planning Practice Guidance (PPG) contains a section providing guidance on housing and economic development needs assessments. The PPG indicates that there is no one methodological approach or use of a particular dataset(s) that will provide a definitive assessment of development need (ID 2a-005), but goes on to outline an overarching methodology for preparing need

assessments in a transparent manner. The PPG identifies that an objective assessment of need should fulfil the following criteria:

- a be proportionate and not consider purely hypothetical future scenarios, only future scenarios that could be reasonably expected to occur (ID 2a-003);
- b be based on facts and unbiased evidence. Constraints should not be applied to the overall assessment of need (ID 2a-004);
- utilise household projections published by the Department for Communities and Local Government as the starting point estimate of overall housing need (ID 2a-015);
- d consider sensitivity testing, specific to local circumstances, based on alternative assumptions in relation to the underlying demographic projections and household formation rates (ID 2a-017); and
- e take account of employment trends (ID 2a-018), appropriate market signals including market indicators of the balance between the demand for and supply of dwellings (ID 2a-019) and affordable housing needs (ID 2a-029).

In light of the relevant policy and guidance in objectively assessing housing needs, this report considers a suitable demographic-led starting point, moving on to examine economic factors, market signals and affordable housing needs to assess whether these justify an uplift in arriving at a full objectively assessed need for Canterbury District. This approach is summarised in Figure 1.1.

Figure 1.1 NPPF and PPG Approach to Objectively Assessing Housing Needs



Source: NLP based on NPPF/PPG

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Structure of the Report

1.15 This report is set out under the following headings;

- Section 2.0 Demographic Based Needs this section establishes an appropriate starting point, based on population and household projections, for assessing housing needs in line with the relevant policy and guidance;
- **Section 3.0 Economic Factors** this section considers the role of economic factors in relation to objectively assessed need, as well as providing updates to scenarios presented as part of the DRS study in light of new, up-to-date population data;
- Section 4.0 Market Signals this section examines the role of market signals as well as providing examples of interpretations on how market signals should be taken into account, before providing analysis of the appropriate market signals within Canterbury District;
- Section 5.0 Affordable Housing Needs this section provides
 evidence on affordable housing needs within Canterbury District, and
 considers how this might impact upon full objectively assessed needs in
 line with policy and guidance; and,
- Section 6.0 Conclusions this section brings together the evidence presented for the factors which will need to be taken into account when considering the full objectively assessed housing need within Canterbury District.

Demographic Based Needs

Background

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Before considering wider factors such as economic growth and market signals, it is necessary to identify the baseline demographic need for housing within a population. This considers trends and projections in births, deaths, migration and household formation to arrive at a dwelling need to accommodate population growth. In regard to establishing a demographic-led housing need, the PPG (ID: 2a-015 and ID 2a-016) states;

"Household projections published by the Department for Communities and Local Government should provide the starting point estimate of overall housing need...."

"The Government's official population and household projections are generally updated every two years to take account of the latest demographic trends. Wherever possible, local needs assessments should be informed by the latest available information...."

Further to these government projections and in arriving at a demographic-led need, the PPG also states that (Para ID 2a-016 and 2a-017);

"The household projection-based estimate of housing need may require adjustment to reflect factors affecting local demography and household formation rates which are not captured in past trends...

"...plan makers may consider sensitivity testing, specific to their local circumstances, based on alternative assumptions in relation to the underlying demographic projections and household formation rates. Account should also be taken of the most recent demographic evidence including the latest Office of National Statistics population estimates....Any local changes would need to be clearly explained and justified on the basis of established sources of robust evidence."

Evidence on Demographic Based Needs

The 'Starting Point'

In line with the PPG, the latest government projections form the starting point 2.3 for assessing housing needs. In respect of population, the latest government projections are the 2012 Sub-National Population Projections¹ (SNPP). In respect of households, in February 2015 the government released the 2012based Sub-National Household Projections (SNHP); these are the first full set of household projections (covering a 25 year period) released since the 2008based Sub-National Households Projections² and are based on the 2012 SNPP. These 2012 household projections vary from the previous projections in two key aspects;

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Released May 2014

Released November 2010

- A lower rate of assumed household formation in the young adult age groups. For example, in 2033, the 2008-based projections projected that 36% of males age 20-24 in Canterbury would form a head of household, however in the 2012-based projections this had been reduced to 28%; and,
- A higher 'not in household' population. The 2008-based household projections projected a 'not in household' population age 15-74 of 5,700 in Canterbury, increasing to around 7,000 by 2033. By contrast, the 2012-based projections project the 'not in household' population of this age group to be 7,300 over the whole 25 year period.
- The headship rates which underpin these projections are used in the scenarios assessed in this report in order to convert the projected population into households. These headship rates represent the percentage of people in a given age group who will form a head of household.
- Over the period 2012-31, the 2012 SNHP project average annual *household* growth of 597 in Canterbury. However, this figure does not represent the starting point for *housing* need, given that more dwellings are necessary than the total number of households to account for a second home/vacancy rate, which allows for movement within the housing market. Taking into account average second home/vacancy rates in Canterbury in recent years³, this indicates that the housing need associated with this level of household growth is 620 dwellings per annum (Scenario A).
- This is reasonably similar to the outputs of the Kent County Council modelling produced in October 2014 and similarly based on applying headship rates to the 2012-based SNPP. This showed a household projection of 592 households per annum (2013-33) with an associated dwelling need of 614 dwellings per annum over the same period.

Local Demographic Factors

The PPG states that, in addition to government projections, local demographic factors can be considered, but notes that in these cases, sources of evidence should be "robust". The ONS Mid-Year Estimate (MYEs) series of past migration trends can help inform alternative demographic based housing need scenarios; however their suitability when assessing University centres such as Canterbury should be considered given issues within the ONS methodology.

Interpreting Migration Trends

In order to estimate internal and international migration, ONS uses a range of sources, but largely relies on GP records⁴. This is dependent on the reregistering of people within the UK, in order to record a 'move' from one Local Authority area to another. This is problematic for areas which see high levels of in-migration of young adults (particularly in University towns) for two reasons.

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³ Taken from CLG Council Tax Base Data 2010-2013

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Firstly, those arriving in Canterbury (i.e. recorded as an in-migrant) who then leave the UK altogether do not become re-registered elsewhere and therefore (unless this move is also captured in the International Passenger Survey) are assumed to remain in Canterbury. Since no 'out' move from Canterbury is captured, it is assumed in the dataset that there are more people in Canterbury than in reality. This can occur as international students return to their country of origin or UK students move abroad for work/travel after completion of studies.

Secondly, young adults who leave Canterbury and move to another Local Authority in the UK are likely to delay re-registering with a GP (this is particularly an issue in males), and hence the 'out-move' to another District is delayed.

The combined result from these effects is an apparent net gain in migration due to the lack of consistency of people being recorded as they move both into and out of Canterbury at the correct time. This was a factor highlighted as a perceived issue within the DRS (e.g. see para 3.5).

Therefore, when producing MYEs, ONS include (along with the other components of population change, i.e. births, deaths and migration) a component of 'unattributable population change'. This is the change which was not captured by any one of the methods used to calculate births, deaths and migration within the District, such as for the reasons described.

In light of the 2011 Census, ONS updated the MYEs taking into account that the population in each of the Local Authorities in England was known. These revised MYE (for migration/unattributable change, released April 2013) are shown for Canterbury in Figure 2.1 (Data can be found in Appendix 3). Whilst net migration is recorded as being consistently positive, unattributable change is consistently negative. This negative component (averaging c.-400 p.a.) means that in 2011, there were c. 4,000 fewer people in Canterbury compared to the population as recorded through the methods used by ONS to estimate migration since 2001, i.e. highlighting the issues with migration estimates in Canterbury.

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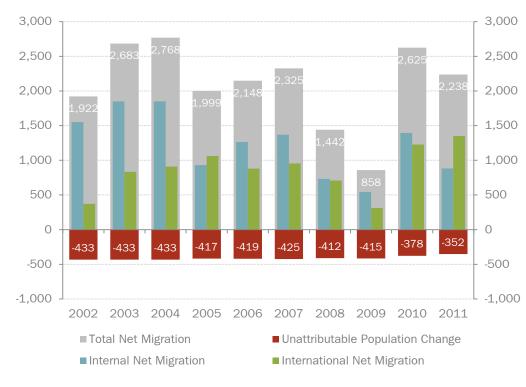


Figure 2.1 Migration and Unattributable Population Change in Canterbury between the Census 2001 and Census 2011

Source: ONS Revised Mid-Year Estimate Series - [Components of Population Change for England and Wales; estimates resident population; revised in light of the 2011 Census - Released 30 April

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Given the five and ten year averages significantly over-estimate migration in Canterbury, trending these forward over a 19 year period to inform a demographic-led housing scenario would result in a population and housing need which is artificially inflated. The age profile of migration in particular (i.e. young adults) means that those who are (incorrectly) recorded as remaining in Canterbury would be modelled as forming households and therefore generating housing need, when this is in fact not the case. By contrast, the 2012 SNPP projects total net migration over the plan period to be 973 per annum on average.

For these reasons, five and ten year migration scenarios have not been considered by NLP as it is deemed that in the case of Canterbury – with its particular circumstances - the migration estimates (which would underpin such scenarios) do not represent a robust basis on which to model future population change and housing needs. The 2012-based SNPP is considered the most reasonable starting point for demographic change as it appears to exclude the implications of such effects.

Headship Rate Sensitivity

The 2012-based SNHP show lower rates of household formation than their 2008-based predecessors, particularly in the youngest age groups. Since the projections take into account recent trends, this is likely to be a result of the reduced rates of household formation seen throughout the recent recession as

a result of factors such as constrained supply of housing, affordability issues and lack of mortgage availability. To simply trend this forward might result in the true housing need of the population being supressed further, by not providing sufficient housing for the demands of the population.

Therefore, in addition to modelling the 2012 Headship Rates (Scenario A), NLP has also modelled a 'Partial Catch-up' Headship Rate scenario (Scenario B). This is still based on the 2012 SNPP, hence the demographic and economic outputs are the same as the previous scenario. However, it assumes that by 2033, half of the difference between the 2008-based and 2012-based headship rates for those ages 15-34 is made up (with this change taking effect from 2018 onwards, to allow for the economy to return to true, pre-recession trends). This is because the 2008-based projections were produced before the recession, and therefore represent household formation rates more in line with longer term trends. By modelling a 'Partial Catch-up' scenario, it is assumed that any pent-up demand within the population will be released resulting in higher rates of household formation than projected by the 2012 SNHP, with household formation returning to a trend more in line with (but not the same as) the higher rates in the 2008-based projections.

Applying these rates of household formation to the 2012 SNPP for Canterbury, there is annual household growth of 632 per annum and a need for 657 dwellings per annum over the period 2012-31 (to take account of second home/vacancy rates). This is a 6% increase on the housing need under the 2012 household projections, and highlights the impact that assumed household formation rates have on assessing housing need, even based on the same model of population growth in the District.

Summary of Demographic-led Needs

In line with the PPG requirement to use the most recent government projections as the starting point for assessing housing needs, it is considered the 2012 SNPP/SNHP form the demographic-led starting point for an objective assessment of need in Canterbury. It is necessary however to apply a dwelling vacancy rate in order to derive a housing need from this household growth figure, hence the housing need is slightly higher than the household growth.

Whilst past migration trends might, in other cases, form additional evidence from which to consider demographic-led needs, in the case of Canterbury these sources do not represent a robust estimate given Canterbury's position as a University town. Because of the issues relating to the recording of students and young adults in migration estimates, and in light of the unattributable component of population change in Canterbury, it is likely that trending forward past migration trends would likely significantly over-estimate the migration and ultimately the demographic-led housing need in the District.

Therefore, taking into account dwelling vacancy rates, the starting point for the objective assessment of housing need is 620 dwellings per annum over the period 2012-2031 (Scenario A), as based on the 2012 SNPP/SNHP. This takes

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into account household growth and dwelling vacancy rates over the period to 2031.

Economic Factors

Background

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Ensuring a sufficient supply of homes within easy access of employment represents a central facet of an efficiently functioning economy and can help minimise housing market pressures and unsustainable commuting. The NPPF highlights the importance of promoting sustainable methods of transport (paragraphs 29-31) whilst the PPG states that (ID:2a-018);

"Plan makers should make an assessment of the likely change in job numbers based on past trends and/or economic forecast as appropriate and also having regard to the growth of the working age population in the housing market area... Where the supply of working age population that is economically active (labour force supply) is less than the projected job growth, this could result in unsustainable commuting patterns...and could reduce the resilience of local businesses. In such circumstances, plan makes will need to consider how the location of new housing...could help address these problems."

Whilst economic scenarios can provide an indication of the level of housing needed to achieve levels of job growth under specified assumptions, because the Experian forecasts (used in this report) give limited weight to the demographic profile and labour force size, particularly at the local level, it is reasonable to consider them in the context of demographic growth in the District, as opposed to relying upon them as a single determinant of housing need. This approach has been found to be reasonable (where economic-led scenarios are outliers in the context of other scenarios) by the Inspector at the Lichfield Local Plan: Strategy Examination;

"...while the Housing Needs Study identified a broad range of housing requirements (a range of between 76 and 630 dpa) which included these two scenarios - it also, quite legitimately sought to refine that range. In so doing it excluded 'outliers' such as Housing Growth Scenarios F [forecast job growth] and G [past trends job growth]..." Paragraph 67 of Annex attached to the Inspector's letter to Lichfield District Council: Initial Findings, 03 September 2013.

Economic-led Housing Needs

Evidence from the DRS and Canterbury Futures Study

This section of the report seeks to update the economic-led scenarios from the NLP DRS and Canterbury Futures Study. However, this report does not seek to update the economic forecasts themselves; rather it uses annualised figures taken from those forecasts in updated scenarios with up-to-date population, economic and housing data.

3.4 Since the DRS, the following datasets/inputs have been updated;

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- The 2011 Census provides **economic activity rates** by age and sex, which are specific to Canterbury. This provides an up-to-date and accurate representation of the economic activity of the population in Canterbury, and therefore these form the basis of the updated scenarios in this report. These vary significantly from the rates used in the DRS, which were supplied by Kent County Council and were based on the 2001 Census; most notably economic activity in the youngest and oldest age groups in 2011 was recorded in the Census to be substantially lower than the rates projected by KCC;
- The Annual Population Survey now provides unemployment data for the years up to 2014 and hence these rates are now incorporated into the modelling. As with the DRS, the modelling still assumes a reduction in unemployment to the pre-recession average;
- The 2011 Census also provided an updated picture on the commuting balance in Canterbury. This indicated that Canterbury was a District of net in-commuting, with more jobs than employed workers. This is different to the DRS, which used a commuting rate based on the 2001 Census which shows Canterbury was a District of net out-commuting. In both the DRS and this report, the commuting balance is assumed to remain constant over the projection period.
- In addition to these updates, the population on which the economic scenarios are now based have been updated. The differences in the size and age profile of the population will have an impact on the housing need given this will dictate the size of the labour force. In addition, the household projections used to derive a housing need based on the population have been updated, as described.

Scenarios for Economic Growth

The detailed assumptions which underpin these scenarios can be found in Appendix 1. The economic-led scenarios from the DRS which have been updated for this report are;

- Economic Forecast (Scenario C) 208 jobs per annum. This forecast represented unconstrained projections of employment growth based on recent trends in sectorial growth combined with projections of GVA at a regional level, and how such sectors in Canterbury District have fared relative to the region's growth in the past. This forecast was trend based and did not consider demographic or policy factors; and,
- Economic Futures 'Preferred' Scenario (Scenario D) 328 jobs per annum. This is described by Experian as "...constructed by selecting the forecast for each industry that was deemed to be most desirable under the preferred scenario..."⁵.

Taking into account this new data, the modelling indicates that under Scenario C there is a need for 717 dwellings per annum over the period 2012-31 and under Scenario D a need for 803 dwellings per annum.

Summary

The housing outcomes under each of these economic scenarios indicate a need for between 717 and 803 dwellings per annum, based on the assumptions stated and the respective job growth figures. In line with policy guidance, CCC should consider how new housing could address issues around a labour shortage and/or unsustainable commuting patterns, having assessed future job growth based on these Experian forecasts, with regard to the growth in the working-age population.

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4.0 Market Signals

Background

The NPPF sets out the central land-use planning principles that should underpin both plan-making and decision-taking. It outlines twelve core principles of planning that should be taken account of, including the role of market signals in effectively informing planning decisions (NPPF Paragraph 17);

"Within the overarching roles that the planning system ought to plan, a set of core land-use planning principles should underpin both plan-making and decision-taking. ...:

- ...Plans should take account of market signals, such as land prices and housing affordability, and set out a clear strategy for allocating sufficient land which is suitable for development in their area, taking account of the needs of the residential and business communities:..."
- The PPG (2014) indicates that, with regard to market signals, having established a starting point for an assessment of housing need using government projections (ID: 2a-019);
 - "...(the starting point) should be adjusted to reflect appropriate market signals, as well as other market indicators of the balance between the demand for and supply of dwellings. Price or rents rising faster than the national/local average may well indicate particular market undersupply relative to demand. Relevant signals may include the following:
 - Land Prices;
 - House Prices;
 - Rents;
 - Affordability- ... the ratio of lower quartile house prices and the lower quartile income or earnings...;
 - Rate of Development- ... actual completions per year relative to the planned number...;
 - Overcrowding Indicators on overcrowding, concealed and sharing households, homelessness and the numbers in temporary accommodation..."
- It goes on to indicate that appropriate comparison of these should be completed with an upward adjustment made where such market signals indicate an imbalance in supply and demand and need to increase housing supply to meet demand and tackle affordability issues (ID 2a-020):

"This includes comparison with longer term trends (both in absolute levels and rates of change) in the housing market area; similar demographic and economic areas; and nationally. Divergence under any of these circumstances will require upwards adjustment to planned housing numbers compared to ones based solely on household projections...

In areas where an upward adjustment is required, plan makers should set this adjustment at a level that is reasonable. The more significant the affordability constraints (as reflected in rising prices and rents, and worsening affordability ratio) and the stronger other indicators of high demand (e.g. the differential between land prices), the larger the improvement in affordability needed and, therefore, the larger the additional supply response should be....plan makers should not attempt to estimate the precise impact of an increase in housing supply..."

The Inspector's Report into the Eastleigh Borough Local Plan and the Inspectors conclusions into the Uttlesford Local Plan provide interpretation of the PPG in terms of a reasonable uplift on demographic-led needs in light of market signals;

"The framework and guidance indicate that household projections should be adjusted to take into account market signals. The guidance refers to appropriate comparisons of indicators in both absolute levels and rates of change...[the SHMA] ...identifies modest market pressures in Eastleigh...

Not all signals demonstrate that Eastleigh is worse than national or regional/sub-regional averages. But on some crucial indicators it is... Overall market signals do justify and upward adjustment above the housing need derived from demographic projections only...

It is very difficult to judge the appropriate scale of such an uplift...Exploration of an uplift of, say, 10% would be compatible with the "modest" pressure of market signals recognised..." Paragraphs 39, 40 and 41, Eastleigh Borough Local Plan Inspector's Report February 2015⁶.

"...taking all the ... factors in the round, I conclude that it would be reasonable and proportionate, in Uttlesford's circumstances, to make an upward adjustment to the OAN... In my view it would be appropriate to examine an overall increase of around 10%..." Paragraph 1.10, Examination of the Uttlesford Local Plan, Inspector's Conclusion, 22 December 2014.

Evidence on Market Signals

Land Prices

Whilst Land Price premiums can be an indicator of land shortage for given uses, detailed and up-to-date data on bulk residential land prices is not available for Canterbury District and thus this market signals is excluded from analysis.

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⁶ http://www.eastleigh.gov.uk/pdf/ppi_Inspectorsreport12Feb15.pdf

House Prices

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The PPG identifies that longer term change in house prices may indicate an imbalance between demand and supply of housing. Although it suggests using mix-adjusted and/or House Price Indices, these are not available at the local authority level and therefore price paid data is considered the most reasonable indicator for this.

CLG publish series data on District level median house prices based on Land Registry Data from 1996-2012. Land Registry 'Price Paid' Data is used for 2013. Figure 4.1 shows the median house prices for the last 15 years within Canterbury District, Kent and England. As of 2013, median house prices in Canterbury District were £210,000 compared to £200,000 in Kent and £187,000 in England. This represents a rise since 1998 of 204% (equivalent to a rise of £146,000) - a higher absolute increase and rate of increase than both the County and nationally. This rise of 204% places Canterbury is in the worst 25% of local authorities across England in terms of rate of house prices increase.

Figure 4.1 Median House Price 1998-2013



Source: CLG Live Table 586/Land Registry

Table 4.1 House Price and Change Data

	1998	2013	Absolute Change	% Change
Canterbury	£69,000	£210,000	+£141,000	+204%
Kent	£71,500	£200,000	+£128,500	+180%
England	£66,250	£187,000	+£120,750	+182%

Source: CLG Live Table 586/Land Registry

Rents

High and increasing costs of private rents are another indicator of housing market stress. Although series data for this is only available from Q2 2011 to Q3 2014, significant trends are still apparent within Canterbury District.

In the 12 months to Q3 2014 median monthly rents were £795 within Canterbury District compared to £695 in the 12 months to Q2 2011. This represents an increase of £100 (a rise of 14.4%). Across Kent, this equivalent change was an increase of 8.0% to £675 and nationally, rents rose 4.4% to £595. Figure 4.2 shows this, indicating that rents in Canterbury are absolutely higher than both Kent and England, whilst also seeing significantly higher rates of increase in recent years.

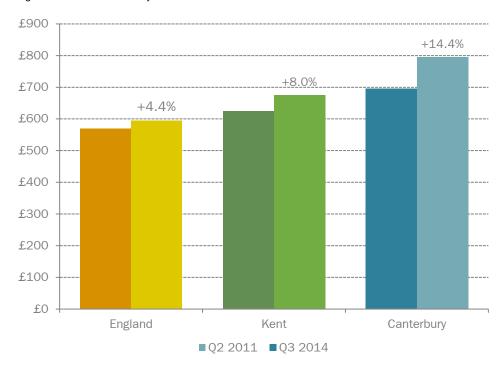


Figure 4.2 Median Monthly Rents

Source: VOA Private Rental Market Statistics

Table 4.2 Median Monthly Rental Costs and Change Data

	Q2 2011	Q3 2014	Absolute Change	% Change
Canterbury	£695	£795	+£100	+14.4%
Kent	£625	£675	+£50	+8.0%
England	£570	£595	+£25	+4.4%

Source: VOA Private Rental Market Statistics

Affordability

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The PPG identifies that assessing affordability involves comparisons between the cost of housing and ability to pay. The indicators for this are lower quartile house prices and lower quartile earnings which together form an affordability ratio which can be tracked over time. The affordability ratio is another indicator of housing supply failing to keep pace with demand; as house prices increase, in the absence of wage growth, affordability worsens.

Over the last 15 years, the lower quartile affordability ratio in Canterbury has increased from 4.8 to 9.12 – an increase of 91%. Over the same time period,

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the affordability ratio increased in Kent from 4.1 to 8.2 (an increase of 100%) and in England from 3.57 to 6.45 (81%). The change in affordability for all three regions is shown in Figure 4.3.



Figure 4.3 Lower Quartile Affordability Ratio 1998-2013

Source: CLG Live Table 576

Table 4.3 Affordability Ratio and Change Data

	1998	2013	Absolute Change	% Change
Canterbury	4.76	9.12	+4.36	+204%
Kent	4.11	8.20	+4.09	+180%
England	3.57	6.45	+2.88	+182%

Source: CLG Live Table 576

Rate of Development

The rate of development is a supply-orientated indicator of past under-delivery and resulting backlog which may have arisen. A way of assessing the extent of backlog is comparing completions against the relevant requirement for the corresponding period. This is shown for 2006/07 to 2012/13 (the latest year for which there is an available Annual Monitoring Report) in Table 4.4.

Table 4.4 Housing Completions Against Targets 2006/07 to 2012/13

Year	Relevant Target	Net Completions	Surplus/ Shortfall	Cumulative
2006/07	510	638	128	128
2007/08	510	1,284	774	902
2008/09	510	965	455	1,357
2009/10	510	305	-205	1,152
2010/11	510	357	-153	999
2011/12	510	624	114	1,113
2012/13	510	524	14	1,127
Total	3,570	4,697	1,127	~

Source: Canterbury City Council Annual Monitoring Report 2012/13 https://www.canterbury.gov.uk/media/796164/AMR1213Final.pdf

Since 2006, Canterbury Council's housing target has remained as that identified within the South East Plan. Though this has been revoked, this will contain to remain the housing target for the District until a revised figure has been agreed for the new Local Plan. This target is 10,200 homes within Canterbury District between 2006 and 2026.

In Canterbury District, recent years have shown housing delivery has been overall in excess of the SEP target, albeit with some years of under-delivery in 2009/10 and 2010/11 which are potentially attributable to the effect of recession.

Overcrowding and Homelessness

Overcrowding, shared households and homelessness are further indicators that there may be additional pressures to increase housing delivery above the baseline demographic needs. In areas with particularly high house prices and rents, households may either choose or be forced to accept sub-optimal living conditions, resulting in overcrowded homes and homelessness.

As of 2011, 7.6% of households in Canterbury were living in overcrowded accommodation. This is lower than England (8.7%) but higher than in Kent (6.9%) as shown in Table 4.5. Overcrowding in Canterbury has increased 19.1% which is a lower rate of increase than Kent and England.

Table 4.5 Overcrowding Data

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	% Households	Change	
	2001	2011	Change
Canterbury	6.4%	7.6%	+19.1%
Kent	5.3%	6.9%	+30.9%
England	7.1%	8.7%	+22.7%

Source: Census 2001, Census 2011

Canterbury also has a higher rate of homeless households in temporary accommodation compared to Kent (1 per 1,000 households compared to 0.88 per 1,000 households), albeit this is still lower than nationally, where 2.44 per

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1,000 households are in temporary accommodation. In Canterbury, this rate represents a 79.7% decline on 2004/05 levels, which is a greater decline compared to Kent and England as shown in Table 4.6.

Table 4.6 Homelessness Data - Households in Temporary Accommodation

	Accommodat	in Temporary ion (per 1,000 holds)	Change		
	2004/05	2012/13			
Canterbury	4.9	1.0	-79.7%		
Kent	3.7	0.9	-75.9%		
England	4.8	2.4	-49.0%		

Source: CLG Live Table 784 (P1e Returns)

In addition to assessing market signals within Canterbury, the PPG states that (ID: 2a-20);

"Appropriate comparisons of Indicators should be made. This includes comparisons with longer term trends (both in absolute level and rates of change) in the: housing market area; similar demographic and economic areas; and nationally..."

- Therefore, for the purposes of this assessment, Canterbury has been compared to;
 - Neighbouring Authorities and other Authorities within Kent which may have housing market links with Canterbury and may constitute the housing market area; and,
 - Authorities from across England which prima facie, have, similar characteristics.
- A summary of the comparisons against neighbouring authorities which could potentially form part of the housing market is shown overleaf in Table 4.7. The comparisons against similar Authorities is shown in Table 4.7.

Table 4.7 Market Signals Comparator Table - Kent Authorities

	House Prices			Rents		Affordability	Ratio (LQ Hous Earnings	e Price to LQ	Overcrowding Home			Homelessness	nelessness		
	Median (2013)	Absolute Change (£) (1998-2013)	Change % (1998-2013)	Median Monthly Rent (Q3 2014)	Absolute Change (£) (1998-2013)	Change % (Q2 2011-Q3 2014)	Ratio (2013)	Absolute Change (1998-2013)	Change % (1998-2013)	% of Housing Over- Occupied (2011)	Absolute Change (2001-2011)	% Change (2001-2011)	Incidence of homeless h'holds (2012/13)	Absolute Change (2004/05- 2012/13)	%Change (2004/05- 2012/13)
1	Sevenoaks	Sevenoaks	Canterbury	Sevenoaks	Sevenoaks	Tonbridge and Malling	Sevenoaks	Sevenoaks	Dartford	Dartford	Gravesham	Gravesham	Ashford	Ashford	Ashford
2	Tunbridge Wells	Tunbridge Wells	Thanet	Tonbridge and Malling	Tonbridge and Malling	Sevenoaks	Tunbridge Wells	Tunbridge Wells	Swale	England	Dartford	Dartford	Maidstone	Canterbury	Canterbury
3	Tonbridge and Malling	Tonbridge and Malling	Dartford	Tunbridge Wells	Canterbury	Canterbury	Tonbridge and Malling	Tonbridge and Malling	Medway	Gravesham	Tunbridge Wells	Maidstone	Medway	Sevenoaks	Maidstone
4	Canterbury	Canterbury	England	Canterbury	Tunbridge Wells	Gravesham	Canterbury	Canterbury	Sevenoaks	Tunbridge Wells	Thanet	Tonbridge and Malling	England	Maidstone	Thanet
5	Maidstone	Dartford	Medway	Dartford	Dartford	Dartford	Maidstone	Dartford	Dover	Thanet	Maidstone	Thanet	Dartford	Dover	Dartford
6	Dartford	Maidstone	Shepway	Maidstone	Maidstone	Maidstone	Ashford	Maidstone	Tunbridge Wells	Shepway	Shepway	Tunbridge Wells	Thanet	Thanet	Dover
7	Ashford	England	Dover	Ashford	Gravesham	Tunbridge Wells	Dartford	Ashford	Thanet	Canterbury	England	Shepway	Dover	Dartford	England
8	Gravesham	Ashford	Swale	Gravesham	Ashford	Thanet	Gravesham	Swale	Gravesham	Medway	Medway	Dover	Gravesham	Shepway	Medway
9	England	Gravesham	Gravesham	Medway	Medway	Medway	Shepway	Gravesham	Canterbury	Maidstone	Dover	England	Swale	Swale	Sevenoaks
10	Shepway	Shepway	Tunbridge Wells	Swale	Thanet	Ashford	Thanet	Thanet	Tonbridge and Malling	Swale	Tonbridge and Malling	Medway	Canterbury	Tonbridge and Malling	Swale
11	Dover	Dover	Tonbridge and Malling	England	Swale	Dover	Swale	Shepway	Ashford	Dover	Canterbury	Sevenoaks	Shepway	England	Shepway
12	Swale	Swale	Ashford	Thanet	England	England	Dover	Dover	Maidstone	Ashford	Sevenoaks	Canterbury	Tunbridge Wells	Medway	Gravesham
13	Medway	Thanet	Maidstone	Dover	Dover	Swale	Medway	Medway	England	Tonbridge and Malling	Swale	Ashford	Sevenoaks	Tunbridge Wells	Tonbridge and Malling
14	Thanet	Medway	Sevenoaks	Shepway	Shepway	Shepway	England	England	Shepway	Sevenoaks	Ashford	Swale	Tonbridge and Malling	Gravesham	Tunbridge Wells

Table 4.8 Market Signals comparisons against similar Authorities

	House Prices				Rents			Ratio (LQ Ho LQ Earnings	ouse Price to		Overcrowding Homelessness			S	
	Median (2013)	Absolute Change (£) (1998-2013)	Change % (1998-2013)	Median Monthly Rent (Q3 2014)	Absolute Change (£) (1998-2013)	Change % (Q2 2011-Q3 2014)	Ratio (2013)	Absolute Change (1998-2013)	Change % (1998-2013)	% of Housing Over- Occupied (2011)	Absolute Change (2001-2011)	% Change (2001-2011)	Incidence of homeless h'holds (2012/13)	Absolute Change (2004/05- 2012/13)	% Change (2004/05- 2012/13)
1	Guildford	Cambridge	Cambridge	Guildford	Cambridge	Cambridge	Guildford	Cambridge	Exeter	Cambridge	Oxford	Winchester	Taunton Deane	Winchester	Winchester
2	Cambridge	Guildford	Exeter	Oxford	Guildford	Canterbury	Winchester	Guildford	Cambridge	Oxford	Cambridge	Taunton Deane	Cambridge	Canterbury	Canterbury
3	Winchester	Oxford	Canterbury	Winchester	Canterbury	Bath & North East Somerset	Cambridge	Canterbury	Canterbury	Exeter	England	Bath & North East Somerset	England	Guildford	Cambridge
4	Oxford	Winchester	Bath & North East Somerset	Cambridge	Oxford	Guildford	Oxford	Winchester	Bath & North East Somerset	England	Bath & North East Somerset	England	Oxford	Cambridge	England
5	Bath & North East Somerset	Bath & North East Somerset	Oxford	Bath & North East Somerset	Bath & North East Somerset	Oxford	Canterbury	Exeter	Guildford	Canterbury	Winchester	Canterbury	Exeter	Bath & North East Somerset	Bath & North East Somerset
6	Canterbury	Canterbury	England	Canterbury	Winchester	Winchester	Bath & North East Somerset	Oxford	England	Guildford	Exeter	Oxford	Canterbury	Exeter	Taunton Deane
7	Exeter	Exeter	Taunton Deane	Exeter	Exeter	Exeter	Taunton Deane	Bath & North East Somerset	Taunton Deane	Bath & North East Somerset	Taunton Deane	Exeter	Bath & North East Somerset	England	Exeter
8	England	England	Guildford	England	England	England	Exeter	Taunton Deane	Oxford	Winchester	Canterbury	Cambridge	Winchester	Taunton Deane	Guildford
9	Taunton Deane	Taunton Deane	Winchester	Taunton Deane	Taunton Deane	Taunton Deane	England	England	Winchester	Taunton Deane	Guildford	Guildford	Guildford	Oxford	Oxford

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Summary

- In line with the PPG, the evidence on market signals does indicate upwards adjustment on the demographic-led starting point may be required in Canterbury. House prices, rents and affordability indicate potential problems within Canterbury compared to England and Kent; however the District has performed better in terms of overcrowding and homelessness, and changes since 2001.
- 4.22 The demographic-led starting point has been arrived as described as 620 dwellings per annum, and the uplift to take account of market signals will need to be set at that which is 'reasonable', noting that (PPG ID 2a-020);
 - "...[plan-makers] should increase planned supply by an amount that, on reasonable assumptions...could be expected to improve affordability..."

Recent Inspector's examination findings⁷ have suggested an uplift of 10% is appropriate, with the Inspector into the Eastleigh Core Strategy specifically concluding:

"It is very difficult to judge the appropriate scale of such an uplift. I consider a cautious approach is reasonable bearing in mind that any practical benefit is likely to be very limited because Eastleigh is only a part of a much larger HMA. Exploration of an uplift of, say, 10% would be compatible with the "modest" pressure of market signals recognised in the SHMA itself."

At face value, the evidence suggests the scale of market signal pressure in Canterbury is greater than "modest" and as such a reasonable market signal uplift to the demographic baseline might be considered to be greater than 10%. By way of illustration, a 20% uplift on the 620 dwellings per annum 'starting point' would equal total housing needs of 744 dwellings per annum.

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⁷ See Inspector's preliminary findings into Uttlesford and Eastleigh Core Strategies respectively (December 2014)

Affordable Housing Needs

Within this section, a calculation of affordable housing need, in line with the PPG, and for some more specific details the former CLG SHMA Guidance (2007), has been undertaken for Canterbury to inform the assessment of the scale of housing affordability as well as arriving at an estimate of future housing need. The basic approach to this is:

Total Current Housing Need (gross) to be addressed
Plus
Total Newly Arising Housing Need (gross per annum)
Less
Annual Supply of Affordable Housing
Equals
Net Housing Need

Background

With regards to the incorporation of affordable housing needs into the total housing figures included in Local Plans, the PPG (ID 2a-029-20140306) sets out the following:

"The total affordable housing need should...be considered in the context of its likely delivery as a proportion of mixed market and affordable housing developments, given the probable percentage of affordable housing to be delivered by market housing led developments. An increase in the total housing figures included in the local plan should be considered where it could help deliver the required number of affordable homes."

- The PPG sets out that 'the total housing figures' are about much more than just demographic need and should include an increase towards meeting full affordable housing needs.
- The importance of considering affordable housing needs in an objective assessment of housing need calculation has been recently (19/02/15) confirmed in the High Court judgment Satnam Millennium Ltd vs Warrington Borough Council.⁸ It sets out the requirement for an objective assessment of housing need to cater for affordable housing needs within its calculation. The judgment found that the adopted objective assessment of housing need figure proposed in Warrington's Local Plan was not in compliance with policy because (para 43) "the assessed need was never expressed or included as part of the OAN". The decision found that the "proper exercise" had not been undertaken, namely:
 - "(a) having identified the OAN for affordable housing, that should then be considered in the context of its likely delivery as a proportion of mixed

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^{8 2015]} EWHC 370 (Admin) Case No: CO/4055/2014 http://www.bailii.org/ew/cases/EWHC/Admin/2015/370.html

market/affordable housing development; an increase in the total housing figures included in the local plan should be considered where it could help deliver the required number of affordable homes;

(b) the Local Plan should then meet the OAN for affordable housing, subject only to the constraints referred to in NPPF, paragraphs 14 and 47."

Affordable Housing Needs Calculation

Stage 1: Current Housing Need Steps 1.1 to 1.4

The first stage of the assessment considers current (backlog) affordable housing need. The PPG is clear that an estimate should be made of the number of households who lack their own housing or live in unsuitable housing and who cannot afford to meet their housing needs, in the open market. The PPG (ID 2a- 024-20140306) provides an indication of the types of housing that should be considered unsuitable which are set out below:

- Homeless households
- Households in temporary accommodation;
- Over-crowded housing;
- Concealed households:
- Existing affordable housing tenants in need; and
- Households from other tenures in need and those that cannot afford their own homes.

Although potentially not including all households in need of housing, the housing waiting list is the starting point for estimating what the need and demand for housing waiting list in priority need were accommodated, it would be reasonable to assume that all demand for affordable housing would be met, even if there remain households in need which are not reflected in the housing waiting list.

Therefore, it has been considered that the components of housing need as those in need and within a reasonable preference group for affordable housing (e.g. homeless households and overcrowded households), currently concealed households and other groups in need, for which the waiting list has been used as a best case proxy.

Data from CLG Local Authority Housing Statistics 2013/14 identifies that at April 2014 a total of 1,734 households were on the housing waiting list, this figure has been corroborated by Canterbury City Council. Data from Canterbury City Council identifies that 599 of these households are existing social rented or affordable rent tenants seeking a transfer.

Data from CLG and the Census 2011 has been utilised to illustrate the quantity of concealed households. However, given the potential for double counting (some concealed households may already be on the waiting list), the fact that the Census only calculates concealed families and the temporal proximity of

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data from the Census 2011, the waiting list provides the most appropriate gross estimate of current housing need.

The components of current housing need in Canterbury City Council are set out below.

Table 5.1 Current Housing Need

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Component	Households	Source/Calculation
Housing waiting list priority bands	1,734	CLG Local Authority Housing Statistics 2013/14
of which Homeless Households (inc. Temporary Accommodation)	243	CLG Local Authority Housing Statistics 2013/14
of which Overcrowded, Concealed or Insanitary Households	393	CLG Local Authority Housing Statistics 2013/14
Gross Estimate of Current Housing Need	1,734	(households in priority bandings)
of which current occupiers of affordable housing	599	Canterbury County Council
Net Estimate of Current Housing Need (Backlog)	1,135	Gross Estimate of Current Housing Need - of which current occupiers of affordable housing

Source: CLG Local Authority Housing Statistics 2013/14 and Canterbury City Council

Whilst the SHMA Practice Guidance suggests transfers should be added in at the supply stage (i.e. units becoming available when existing tenants are rehoused), NLP has presented this in the need stage to reflect the fact that some of those currently in need of affordable housing and on the waiting list are current occupiers, and that the net backlog is reduced accordingly. This backlog of current housing need will ultimately need to be factored into the current supply of affordable housing stock in order to reduce the scale of those in need of housing.

Stage 2: Future Need steps 2.1 to 2.3

Future housing need is split into two components. The PPG (ID-2a-025-20140306) sets out firstly that "the process should identify the minimum household income required to access lower quartile (entry level) market housing". This could be either through purchasing a dwelling or renting privately. Secondly, existing households fall into need to be considered as part of future affordable housing needs.

New Household Formation (Step 2.1)

The PPG recommends that gross household formation should be used as the measure of newly forming households, as opposed to net household growth which takes into account household dissolution (ID-2a-025-20140306). This is

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required to ensure that household dissolution is not double counted in the calculation, once as a net loss of households and potentially again as a re-let of the house they may have occupied. However, gross household formation is typically much higher than net rates, and may represent an overestimate of the amount of households seeking new housing in each year within Canterbury.

For the purposes of considering future newly forming households, the CLG 2012 based household projections have been used. This calculation is included in Appendix 4.

Table 5.2 Gross newly forming households Canterbury City Council 2012 to 2032

	No. newly forming households annually (gross) 2012 to 2032
Canterbury	1,029

Source: CLG 2012 based household projections, NLP analysis

This output of future housing need should be treated with caution. Such gross estimates may include people that form several different households over the period at different stages of their life, but does not account for their previous household no longer existing. For example a single person household could evolve into a couple, then one with children over the twenty year period.

By way of comparison, if net household formation from the 2012 household projections are utilised, this would total 600 additional households each year for Canterbury, which is a substantial reduction from the 1,029.

Table 5.3 Net newly forming households Canterbury City Council 2012 to 2032

	No. newly forming households annually (net) 2012 to 2032
Canterbury	600

Source: CLG 2012 based household projections, NLP analysis

Those unable to rent or buy (Step 2.2)

This stage of the assessment undertakes an affordability test. Information in respect of local house prices, market rents and household income levels has informed the test which estimates the ability of households to afford lower quartile market housing. The affordability test has been calculated by identifying the costs of entry level (lower quartile) market housing, the costs of which have been obtained from the Land Registry, as well as private rental costs obtained from the VOA.

Drawing upon the review of current house prices and private rental values, lower quartile prices for a house (£179,000) and a rental property (£7,416 per annum) have been used as an indicator of the entry price to market housing. Such houses are available within Canterbury and such values are relatively typical of smaller 1 and 2 bed properties on the market, ideal for newly forming households seeking to move into a first property.

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In order to understand what income would be required to sustain ownership or occupation of such properties, it is necessary to consider how much households can afford to spend on their housing. The former CLG SHMA Guidance sets out that a household can be considered able to afford to buy a home if it costs 3.5 times the gross household income for a single earner or 2.9 times the gross household income for a dual-income household. However, the PPG does not prescribe exactly how these affordability calculations should be undertaken other than to say that access to lower quartile (entry level) market housing.

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The household income data utilised for Canterbury does not differentiate between single earners and dual earners, and as such a 3.5 multiplier is considered appropriate in order to test best case outcomes. NLP has complemented this with evidence from the Council of Mortgage Lenders, who identified that in Q1 2012, the median loan-to-value ratio for first time buyers was 80% with an income multiple of 3.3. Although there may be difficulties in newly forming households in being able to secure a 20% deposit, there are options available including Government initiatives such as Help to Buy as well as traditional sources of deposits such as parents. On this basis it is considered a useful sensitivity to test.

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In respect of renting, the former CLG SHMA Guidance (2007) set out that a household can be considered able to afford market house renting in cases where the rent payable was up to 25% of their gross household income. These affordability criteria have been applied to the identified rental costs to arrive at an income threshold to support ownership/occupation of entry level market housing. However, there is more up to date evidence which suggests that the proportion of gross income household spend on rent may be higher than 25%. For example, the current HCA guidance to Registered Providers for assessing the affordability of their products sets out that 35% of gross household income can be spent on rent, whilst data released more recently than the former CLG SHMA Guidance⁹ estimates that the national average is 34.4% of gross household income (including state assistance) is spent on rent.

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⁹ CLG English Housing Survey 2010/11

Table 5.4 Income Thresholds for Entry Level Market Housing

Market	Price/Product	Cost	Basis	Income Threshold
Private Buy	Lower Quartile House Prices	£179,000	3.5 x income (CLG Practice Guidance)	£51,142
			20% Deposit and 3.3 x income (CML)	£43,394
	Lower Quartile Rental Prices	£7,416 p.a.	25% Income (CLG Practice Guidance)	£29,664
	Lower Quartile Rental Prices		35% income (HCA Guidance)	£21,189

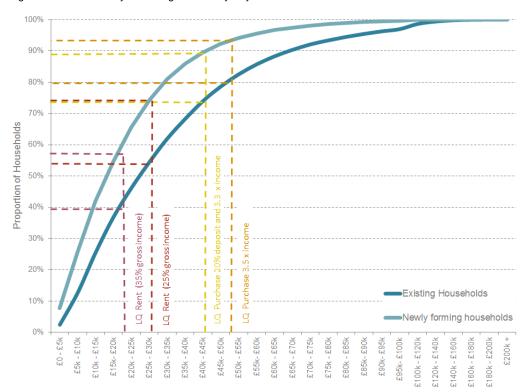
Source: CLG SHMA Guidance, CML, HCA Guidance, Land Registry, VOA, NLP Analysis

NLP has applied these thresholds to the income distributions for existing households and newly forming households in Canterbury to identify the proportion of such households that can afford to access lower quartile market housing. This is graphically represented in Figure 5.1, which presents the income distributions as cumulative proportions, identifying the thresholds for each of the four tested entry level scenarios.

Figure 5.1 Affordability Modelling Canterbury City Council

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Source: CACI Income Data, Rightmove, VOA and NLP analysis

As Figure 5.1 illustrates the income distribution of newly forming households is different from total households, reflecting their lesser incomes. This means that a greater proportion of newly forming households are unable to access market housing than households overall. The PPG, however, sets out clearly that the affordability of housing for newly forming households must be

considered foremost, as it is these households that will most likely fall into housing need if their housing requirements are not met in the market. The percentage of both existing and newly forming households unable to afford to buy/rent is set out below in Table 5.5.

Table 5.5 Proportionate affordability for existing and newly forming households

	Income threshold	Existing Households	Newly Forming Households
Buy a Lower Quartile Priced Property (£179,000) with 3.5 x Income	£51,142	79.52%	92.70%
Buy a Lower Quartile Priced Property (£179,000) with 20% Deposit and 3.3 x Income	£43,394	72.10%	88.57%
Rent a Lower Quartile Priced Property (£7,416 p.a.) paying 25% gross income	£29,664	53.85%	73.88%
Rent a Lower Quartile Priced Property (£7,416 p.a.) paying 35% gross income	£21,189	39.08%	57.56%

Source: NLP analysis

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Table 5.5 illustrates that, a minimum of 80% of households overall, and 93% of newly forming households, are unable to afford to purchase a house within Canterbury. Looking at private market rents, assuming 35% of gross income is spent on rent, a minimum of 39% of overall households are unable to afford to rent in the private market, with this increasing to 58% when considering newly forming households.

In summary, the components of the future affordable housing need are set out below in Table 5.6.

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Table 5.6 Future Affordable Housing Needs – Gross Household Formation

Component	#		Source/Calculation
Newly forming households (Gross per annum)	1 (129		CLG 2012 based household projections
% unable to rent or buy in the private market	74%	58%	NLP affordability modelling
Newly forming households unable to afford market housing (per annum)	761	597	Newly forming households (Gross per annum) x % unable to rent or buy in the private market
Existing households falling into need (annual average)	222		CLG Local Authority Live Table 2012/13 and 2013/14 (average 193 in 2012/13 and 250 in 2013/14).
Estimate of Future Housing Need (p.a.)	983	819	Newly forming households unable to afford market housing (per annum) + Existing households falling into need (annual average)

Source: NLP Analysis

These outputs of future housing need should be treated with caution. Utilising gross estimates of household formation may include people that form several different households over the period at different stages of their life, but does not account for their previous household no longer existing.

By way of comparison, if net household formation from the CLG 2012 based household projections were utilised, this would total only 600 additional households each year, which would reduce the estimated scale of needs considerably, as shown in Table 5.7. It should be noted that this 'net' approach was utilised within the Canterbury Development Requirements Study (DRS) (January 2012). It is also suggested an approach within the Planning Advisory Service (PAS) guidance on Objectively Assessed Need and Housing Targets (June 2014), which sets out one inherent drawback of the PPG approach is that:

"...only part of the affordable housing need is a component of the OAN – that part which relates to <u>net new households</u>. As defined in the PG, affordable need also includes housing for existing households – including those that are currently in unsuitable housing and those who will 'fall into need' in the plan period (i.e. their housing will become unsuitable for them). For the most part the needs of these households are not for net new dwellings. Except for those who are currently homeless or 'concealed'. If they move into suitable housing they will free an equivalent number of existing dwellings, to be occupied by people for whom they are more suitable. If the affordable needs of existing households are included in the OAN, the resulting figure will too large."

If considering net new households, the calculation would need to exclude supply of re-lets (i.e. supply arising from household dissolution) in order to avoid double counting.

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Table 5.7 Future Affordable Housing Needs - Net New Households

Component	#	#	Source/Calculation					
Newly forming households (net new households per annum)	60	00	CLG 2012 based household projections					
% unable to rent or buy in the private market	74%	58%	NLP affordability modelling					
Newly forming households unable to afford market housing (per annum)	444 348		Newly forming households (Gross per annum) x % unable to rent or buy in the private market					
Existing households falling into need (annual average)	222		CLG Local Authority Live Table 2012/13 and 2013/14 (average 193 in 2012/13 and 250 in 2013/14).					
Estimate of Future Housing Need (p.a.)	666	570	Newly forming households unable to afford market housing (per annum) + Existing households falling into need (annual average)					

Source: NLP Analysis

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Based upon the above, these calculations of future need based upon gross household formation must therefore be seen only as one factor in assessing and considering an objective assessment of future housing need and demand.

Stage 3: Affordable Housing Supply steps 3.1 to 3.8

This Section estimates the existing and forthcoming stock of affordable housing as per the PPG. This stage examines housing stock that can accommodate households in housing need. The information is required in order to calculate net affordable housing requirements. The model considers both <u>current</u> affordable housing stock (including how much of this is available) as well as the level of future annual new supply.

Current Affordable Housing Stock steps 3.1 to 3.5

The PPG (ID 2a-026-20140306) sets out the below current components of housing stock used to accommodate current households in affordable housing need as well as future supply.

- Affordable dwellings that are going to be vacated by current occupiers that are fit for use by other households;
- Surplus stock (vacant dwellings);
- Committed supply of new affordable units; and
- Identifying units to be taken out of management (demolition or replacement).

5.32 Table 5.8 below sets out these current components of supply in Canterbury.

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Table 5.8 Current Supply of Affordable Housing in Canterbury

Component	#	Source
Step 3.1 (Affordable Dwellings Occupied by households in need)	599	Canterbury City Council
PLUS Step 3.2 (Surplus Stock) - Vacant but available for letting	31	CLG Local Authority Housing Statistics (LAHS) 2013/14
PLUS Step 3.3 (Committed Supply of New Affordable Housing)	260	Canterbury City Council
MINUS Step 3.4 (Units to be taken out of management) - Vacant but not available for letting	3	CLG Local Authority Housing Statistics (LAHS) 2013/14
EQUALS Step 3.5 Current Supply of Affordable Housing	887	~

Source: CCC and CLG Local Authority Housing Statistics (LAHS) 2013/14

Future Affordable Housing Supply steps 3.6 to 3.7

5.33

5.34

5.35

The PPG (ID 2a-027-20140306) also requires the calculation of social re-lets and intermediate affordable housing (excluding transfers) to be assessed as future components of affordable housing supply.

" plan makers should calculate the level of likely future affordable housing supply taking into account future annual supply of social housing re-lets (net), calculated on the basis of past trends (generally the average number of re-lets over the previous three years should be taken as the predicted annual levels)".

Social re-lets data and intermediate housing sales has been obtained from the CLG Local Authority Live Table which is only available for two years, 2012/13 and 2013/14, as such the average number for both components can only be an average over a two year period. The data obtained for both of these components is set out below in

Table 5.9 Future Annual Supply of Social Re-lets and intermediate housing

	Social re-lets	Intermediate housing sales
2012/13	149	30
2013/14	115	26
Average	132	28

Source: CLG Local Authority Live Table 2012/13 and 2013/14

Estimate of Net Affordable Housing Needs

Bringing the above elements together the analysis can calculate net housing need. This is done on an annual basis, and as such it will be necessary to convert the backlog of need into an annual quota based upon the period which this backlog will be addressed. It is a point for the trajectory to set out how and when backlog of affordable housing need will be delivered in the plan period. However, for the purposes of an objective assessment of housing need calculation, this annualised figure will make no difference to the total affordable

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housing need over the plan period. Table 5.10 below sets out the calculation of net annual affordable housing need, in line with the PPG utilising gross rates for newly forming households.

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Table 5.10 Canterbury Affordable Housing Need Calculation utilising gross household formation

Stage and step in calculation	Notes	Based on 25% income	Based on 35% income
Stage 1: Current Need (Gross)			
1.1 Homeless households and those in temporary accommodation	(CLG Local Authority Housing Statistics)	243	243
1.2 Overcrowding and concealed household	Overcrowding and insanitary (CLG Local Authority Housing Statistics)	393	393
1.3 Other Groups	(CLG Local Authority Housing Statistics)	1,098	1,098
1.4 Total current housing need (gross)	1.1+1.2+1.3	1,734	1,734
1.4 Annual quota (2012-2031)		91	91
Stage 2: Future Need			
2.1 New household formation (gross p.a)		1,029	1,029
2.2 Proportion of new households unable to buy or rent in the market	Unable to afford lower quartile rents	74%	58%
2.3 Existing households falling into need	CLG Local Authority Live Table 2012/13 and 2013/14 (average 193 in 2012/13 and 250 in 2013/14)	222	222
2.4 Total newly arising housing need (gross p.a.)	(2.1 x 2.2) +2.3	983	819
Stage 3. Affordable Housing Supply			
Current Supply			
3.1 Affordable dwellings occupied by households in need	From CCC	599	599
3.1 Annual quota (2012-2031)		32	32
3.2 Surplus stock (Vacant but available for letting)	(CLG Local Authority Housing Statistics)	31	31
3.3 Committed supply of affordable housing	(CLG Local Authority Housing Statistics)	260 ¹⁰	260
3.4 Units to be taken out of management (Vacant but not available for letting)	(CLG Local Authority Housing Statistics)	3	3
3.5 Total affordable housing stock available	3.1(annual)+3.2-3.4	60	60
Future Supply			
3.6 Annual supply of social relets (net)	CLG Local Authority Live Table 2012/13 and 2013/14 (average 149 in 2012/13 and 115 in 2013/14)	132	132
3.7 Annual supply if intermediate housing available for re-let or resale	CLG Local Authority Live Table 2012/13 and 2013/14 (average 30 in 2012/13 and 26 in 2013/14)	28	28
3.8 Annual supply of affordable housing	3.6 + 3.7	160	160
Net Annual Affordable Housing Need	1.4 (annual)+2.4-3.5-3.8	854	690

Source: DCLG General Notes on Local Authority Live Tables 2013/14, CCC and NLP analysis using POPGROUP

This illustrates that net annual need based on current data (2013/14) over the plan period 2012 to 2031 amounts to between 690 and 854 affordable

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5.36

¹⁰ Committed supply is not included for the purposes of calculating objective assessment of housing needs because this supply must be considered as part of the objective assessment of housing need calculation aside from affordable housing needs.

dwellings per annum. This reflects gross household formation and does not account for household dissolutions, with the implication that needs are likely to be inflated under this approach.

As an alternative to the above scenario, Table 5.11 sets out a scenario which utilises the figure for net newly forming households.

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Table 5.11 Canterbury Affordable Housing Need Calculation utilising net household formation

Stage and step in calculation	Notes	Number based on 25% income	Number based on 35% income
Stage 1: Current Need (Gross)			
1.1 Homeless households and those in temporary accommodation	(CLG Local Authority Housing Statistics)	243	243
1.2 Overcrowding and concealed household	Overcrowding and insanitary (CLG Local Authority Housing Statistics)	393	393
1.3 Other Groups	Including people who need to move on medical and welfare grounds and those who need to move to a particular part of the LPA to avoid hardship (CLG Local Authority Housing Statistics)	1,098	1,098
1.4 Total current housing need (gross)	1.1+1.2+1.3	1,734	1,734
Annual quota of backlog (2012-2031)		91	91
Stage 2: Future Need			
2.1 New household formation (gross p.a)		600	600
2.2 Proportion of new households unable to buy or rent in the market	Unable to afford lower quartile rents	74%	58%
2.3 Existing households falling into need	CLG Local Authority Live Table 2012/13 and 2013/14 (average 193 in 2012/13 and 250 in 2013/14)	222	222
2.4 Total newly arising housing need (gross p.a.)	(2.1 x 2.2) +2.3	666	570
Stage 3. Affordable Housing Supply	/		
Current Supply			
3.1 Affordable dwellings occupied by households in need	From CCC	599	599
3.1 Annual quota (2012-2031)		32	32
3.2 Surplus stock (Vacant but available for letting)	(CLG Local Authority Housing Statistics)	31	31
3.3 Committed supply of affordable housing	(CLG Local Authority Housing Statistics)	260 ¹¹	260
3.4 Units to be taken out of management (Vacant but not available for letting)	(CLG Local Authority Housing Statistics)	3	3
3.5 Total affordable housing stock available	3.1(annual)+3.2-3.4	60	60
Net Annual Affordable Housing Need		697	601

Source: DCLG General Notes on Local Authority Live Tables 2013/14, NLP analysis using POPGROUP

Undertaking the above calculation utilising a net figure for newly forming households, demonstrates that affordable housing needs range between 601 and 697 per annum over the plan period 2012 to 2031. These lower estimates reflect the use of net household formation rates, which are more indicative of

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5.38

¹¹ Committed supply is not included for the purposes of calculating objective assessment of housing needs because this supply must be considered as part of the objective assessment of housing need calculation aside from affordable housing needs.

overall need for housing, given they represent all the demographic factors underpinning structural needs for housing (including household dissolutions).

Assuming delivery of affordable housing is at 30%¹² of total delivery, this would amount to total housing need of between 2,003 (assuming 35% income is spent and utilising net newly forming households) and 2,847 per annum (assuming 25% income is spent and utilising gross figures for newly forming households) to deliver these quantities of affordable housing.

Summary

5.39

Although it is not clear to what extent the outcomes of the above affordable housing need scenarios represent a "future scenarios that could be reasonably expected to occur", as is required by the PPG (ID 2a-003-20140306), it is clear that there is a significant affordable housing need in Canterbury. The Council needs to consider if an uplift in overall housing delivery is required to meet these affordable housing needs. Clearly the Council will need to consider this in coming to a conclusion on full objectively assessed housing needs for Canterbury.

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¹² As set out in Policy HD2: Affordable Housing, of the Canterbury District Local Plan

6.0 Conclusion

6.2

This report has sought to provide an update on objectively assessed housing needs within Canterbury, in light of new data and evidence released since the Development Requirements Study, in line with the NPPF and PPG.

Summary of the Evidence

- Based on a demographic starting point of the 2012 SNPP and the 2012 SNHP, there is a need for 620 dwellings per annum over the period 2012-31 which takes into account the necessary dwelling vacancy rates to accommodate household growth of 597 per annum. It is deemed that past migration trends would not represent a suitable alternative for considering demographic-led for the reasons discussed and therefore the figure of 620 dwellings per annum should be considered the starting point for the full objective assessment of housing needs.
- The economic-led scenarios which were previously analysed as part of the DRS have been updated to take into account new data on commuting, unemployment and economic activity. This is in addition to the updated underlying population and household projections. In line with the PPG, economic-led scenarios should be considered in the context of how they can help reduce commuting pressures, and do not represent a definitive assessment of housing needs in their own right. They should also be considered in the context of demographic and labour force change, given that the job forecasts give limited consideration to the profile of the population over time.
- Were Canterbury to seek to maintain the current commuting ratio, then there would need to be growth of the labour force (compared to demographic-led trends alone) in order to support the job growth forecasts in each of the scenarios, which would require in-migration and subsequently additional housing. This need for housing is 717 dwellings p.a. (2012-31) in order to support the economic forecast of 208 jobs p.a., and 813 dwellings p.a. to support the economic futures 'preferred scenario' of 328 jobs p.a.
- The analysis of market signals data has shown that in Canterbury, in line with the PPG, upward adjustment should be made to the starting point and is justified. This is based on examination of the relevant market signals, which include house prices, rents and affordability, covering the current position and changes over time. Appropriate comparisons have been made against national indicators as well as other Local Authorities within similar economic characteristics and neighbouring Authorities within Kent, and uplift on the baseline demographic need of 620 dwellings per annum will need to be made as a response to these market signals as part of the full objective assessment of need.

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Affordable housing needs in Canterbury amount to between 601 and 697 affordable dwellings per annum when utilising net formation rates for new households and between 690 and 854 when utilising gross formation rates for new households. Assuming the delivery of these affordable dwellings at 30% of total housing, the outcomes of these scenarios increase significantly to between 2,003 and 2,847 total dwellings per annum. It is clear that there are significant affordable housing needs in Canterbury and the Council will need to consider whether an uplift in the objective assessment of housing need and an increase in the total housing figures included in the Local Plan could help deliver the required affordable homes.

On the above basis, and in light of the clear need (as set out in the Government's practice guidance) for uplift above the demographic baseline to account for market signals, affordable housing needs and economic growth, there is no basis for considering objectively assessed needs within the District would be as low as the demographic starting point of 620 dwellings per annum.

Next Steps

6.6

6.7

6.8

The Council will need to consider this evidence work and draw its conclusion on the following matters:

- The extent of uplift required to the 'starting point' estimate of need based on the household projections to take account of employment growth and market signals;
- Consider the estimates of affordable housing need, the limitations associated with the different methodologies, and its delivery as a proportion of market housing, in assessing the full need for affordable housing;
- 3 Consider the above in the context of the wider Housing Market Area; and
- Taking account of these, consider how far the proposed housing requirement figure of 780 dwellings per annum in the submission Local Plan meets the full objectively assessed need for housing, in line with paragraph 47 of the NPPF.

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Appendix 1 Model Inputs/Assumptions

	Scenario A: 2012 SNPP, 2012 SNHP	Scenario B: 2012 SNPP, 'Partial Catch-up' Headship Rates	Scenarios C and D: Economic-led (Experian forecasts)				
Population							
Baseline Population	A base population is taken from single year of age and gender.	n the ONS 2012 Sub-National F	Population Projections for Canterbury District. This population is split by				
Births	The number of projected births from the ONS 2012-based SNP		Fertility Rates are applied to the population forecast using the projected Fertility rates for Canterbury District from the 2012-based SNPP.				
Deaths	The number of projected births from the 2012-based SNPP.	in Canterbury District is taken	Mortality Rates are applied to the population forecast using the projecte Fertility rates for Canterbury District from the 2012-based SNPP.				
Internal Migration	Gross domestic in and out migra 2012-based SNPP from totalling migration flows for Canterbury I	g 'cross-border' and 'internal'	Internal in-migration and out-migration is flexed (inflated or deflated) to achieve the necessary number of economically active people to support the number of jobs in Canterbury as modelled in the economic-led scenarios.				
International Migration	As above but for international flo	OWS.	As above but for international flows.				
Propensity to Migrate (Age Specific Migration Rate)	~	Age specific migration rates (ASMigR) for both in and out dom international migration are based upon the age profile of migration can be addeduced and content to the 2012-based SNPP. These identification rate for each age cohort within Canterbury District (for and out flows separately) which is applied to each individual a an age specific migration rate. This then drives the demograph those people moving into and out of Canterbury (but not the too fining migrants).					

	Scenario A: 2012 SNPP, 2012 SNHP	Scenario B: 2012 SNPP, 'Partial Catch-up' Headship Rates	Scenarios C and D: Economic-led (Experian forecasts)				
Housing							
Headship Rates	specific to Canterbury are taken from the 2012-based Sub-National Household Projections. These have been calculated according to sex and five year age group. These headship rates are the percent of the population in a given age/sex group who will form a household and hence derive the household growth figure from the projection population. specific to Canterbury are taken from the 2012-based Sub-National Household Projections. These are use 2017, after which point it is assumed that headship rate the 15-34 age groups will be to 'catch-up' to half of the difference between the 201 and 2008 rates by 2033. The rates have been calculated according to sex and five years are the percent of the population in a given age/segroup. These headship rates are the percent of the population in a given age/segroup who will form a household and hence derive the household growth figure from the projection population population in a projection population in the projection projection projection projection projection projection projection projection projection proj						
Population not in households	The non-household population military barracks, and prisons) household projections. These a and five year age groups.	is taken from the 2012-based	The non-household population (e.g. those in institutional care, military barracks, and prisons) is taken from the 2012-based household projections. The numbers are used below age 75 and are given by se and five year age groups. Above age 75 these have been converted percent to allow for differences in the non-household population in the oldest age groups under different levels of population growth than the prescribed in the 2012 SNPP.				
Vacancy/2 nd Home Rate	properties which occur within the meet needs. An average from 2	ne housing market to allow for m 2010-2013 is applied across the . This means the average secor	cholds, representing the natural vacancies/not permanently occupied ovement and meant that more dwellings than households are required to projection period. This totals data from lines 12, 14 and A to L for 2010-12 and/home vacancy rate for Canterbury District (applied over the projection				

	Scenario A: 2012 SNPP, 2012 SNHP	Scenario B: 2012 SNPP, 'Partial Catch-up' Headship Rates	Scenarios C and D: Economic-led (Experian forecasts)							
Economic										
Economic Activity Rate	Age and gender-specific economic activity rates are used. The basis for this is the ONS 2006-based Labour Force projections. The annual growth rates for these projections are re-based to the 2011 Census, and also take into account the 2012 Annual Population Survey. These are assumed to remain constant beyond the end year of the 2006-based labour force projections, however have been adjusted to take account of changing pension ages (beyond that already taken into account in the projections).									
Commuting Rate	Number of employed workers liv	standard net commuting rate is inferred through the modelling using a Labour Force Ratio which is worked out using the formula: (A) lumber of employed workers living in area ÷ (B) Number of workers who work in the area (number of jobs). In Canterbury District data on less (both taken from the 2011 Census) given a commuting rate of 0.97 (52,708 employed people living in Canterbury and 54,112 jobs in								
Unemployment	The unemployment rate uses an ILO based definition using data from the ONS Annual Population Survey estimate of economically ac people not in employment. This is estimated in Canterbury to be 6.8% in 2012 and 13.9% in 2013. It is assumed that over time, as the economy recovers, that unemployment will decline to a level in line with that seen in Canterbury pre-recession. Therefore, a reduction the pre-recession rate (5.45%) is assumed by 2020, and the unemployment rate is held constant thereafter.									

Appendix 2 Canterbury Model Outputs

Scenario A: Demographic-led Needs – 2012 Headship Rates

		Suman	es and	d Forec	asis			NLP														
Compo	onents	of Popu	lation	Change			Canter	bury														
	Year begin			2015-16	2016-17	017-19	2018-19	2010-20	2020-21	2021-22	2022-22	2023-24	2024.25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31			
irths																						
ale emale	767 730	762 726	749 713		733 698	724 690	718 684	710 676	703 670		689 656	683 651	679 647	675 643		671 639	670 638	669 637	668 636			
Il Births	1,497	1,488	1,462		1,432	1,414	1,402	1,387	1,373		1,345	1,334	1,326	1,319		1,310	1,307	1,306	1,304			
R rths input	1.51	1.53	1.52	1.52	1.52	1.51	1.51	1.51	1.51	1.51	1.51	1.50	1.50	1.49	1.48	1.47	1.47	1.46	1.46			
eaths																						
ale	721	687	681	683	689	693	696	699	706	717	725	733	744	757	770	781	796	811	826			
emale Il deaths	849 1.570	783 1,471	775 1.456		771 1.460	763 1,456	762 1.457	762 1,461	762 1.468		764 1,489	769 1.502	776 1.520	782 1.540		801 1.582	814 1.611	827 1.638	842 1.668			
MR: male:	103.5	96.7	93.6		89.5	87.5	85.2	83.1	81.5		78.4	76.8	75.5	74.3		71.8	70.9		69.0			
MR: fema MR: perso	106.9	98.0 97.4	95.5 94.6		92.5 91.1	90.1 88.8	88.3 86.8	86.5 84.9	84.7 83.1		81.2 79.8	79.8 78.3	78.4 76.9	77.0		74.4	73.4 72.1	72.3 71.1				
xpectation	79.2	80.0	80.4	80.7	80.9	81.2	81.5	81.8	82.0		82.5	82.8	83.0	75.6 83.2	83.4	73.1 83.6	83.8	83.9	70.3 84.1			
xpectation xpectation	83.0 81.3	83.8 82.1	84.1 82.4		84.5 82.8	84.7 83.1	84.9 83.3	85.1 83.6	85.3 83.8		85.8 84.2	86.0 84.5	86.2 84.7	86.4 84.9		86.7 85.2	86.8 85.4		87.1 85.7			
eaths inp	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
-migrati	on from the	e UK																				
ale	5,584	5,575	5,590		5,626	5,630	5,620	5,603	5,584		5,669	5,728	5,814	5,901	5,985	6,029	6,088	6,157	6,218			
emale //	6,279 11,863	6,229 11,804	6,226 11,817	6,255 11,867	6,248 11,874	6,242 11,872	6,207 11,828	6,174 11,776	6,141 11,725	6,174 11,790	6,243 11,912	6,306 12,034	6,411 12,225	6,510 12,411	6,617 12,602	6,666 12,694	6,733 12,821	6,798 12,955	6,868 13,086			
MigR: ma	0.2	0.2	0.2		0.2	0.2	0.2	0.2	0.2		0.2	0.2	0.2	0.2		0.2			0.2			
MigR: fem igrants in	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2			
ut-migra ale	tion to the 5,526	UK 5,522	5,542	5,555	5,549	5,556	5,562	5,548	5,526	5,492	5,465	5,454	5,481	5,527	5,584	5,663	5,734	5,798	5,845			
male	6,770	6,490	6,351	6,329	6,284	6,257	6,260	6,212	6,149	6,082	6,020	6,002	6,046	6,110	6,196	6,297	6,385	6,478	6,524			
∥ MigR: mal	12,296 62.3	12,012 62.0	11,893 62.0		11,834 61.7	11,813 61.7	11,822 61.7	11,759 61.6	11,674 61.5		11,485 60.9	11,456 60.6	11,527 60.6	11,637 60.6	11,780 60.8	11,959 61.0			12,369 61.5			
MigR: fem		68.4	67.6		67.4	67.4	67.7	67.7	67.5		66.6	66.1	66.2	66.3		66.7	67.0	67.4	67.4			
igrants in	•	•	•	•	•	•	•	•	•		· ·		•	•	•	•	•					
	on from Ov																					
ale emale	2,082 2,529	2,072 2,482	2,053 2,444	2,093 2,464	2,052 2,445	2,048 2,426	2,021 2,408	2,007 2,389	1,992 2,362		2,009 2,379	2,024 2,391	2,051 2,432	2,088 2,477	2,123 2,527	2,139 2,565	2,159 2,594	2,176 2,623	2,200 2,646			
u	4,611	4,554	4,497	4,557	4,498	4,474	4,429	4,397	4,354	4,354	4,388	4,414	4,484	4,565	4,650	4,704	4,753	4,799	4,846			
MigR: ma MigR: fem	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0			
igrants in	•		•			•		•	•			•				•						
ut-miara	tion to Ove	rseas																				
ale	1,728	1,714	1,699		1,681	1,670	1,669	1,655	1,640		1,657	1,671	1,698	1,736	1,769	1,786	1,806	1,823	1,846			
emale II	2,218 3,945	2,171 3,885	2,135 3,834		2,129 3,810	2,105 3,775	2,101 3,770	2,082 3,738	2,055 3,696		2,072 3,729	2,084 3,756	2,126 3,824	2,170 3,906		2,258 4,044	2,288 4,093		2,340 4,186			
MigR: ma	351.3	347.2	343.0	339.9	337.9	334.8	334.2	332.1	329.8	331.5	334.7	337.4	341.5	347.0	351.3	351.6	352.7	353.5	355.2			
MigR: fem igrants in	536.6	538.2	538.0	542.5	546.9	544.5	546.9	547.2	545.5	550.0	558.8	562.7	572.1	581.2	590.6	595.1	598.5	601.9	604.7			
	N																					
ligration K	- Net Flow -433	s -208	-76	-18	+40	+59	+6	+17	+51	+216	+427	+577	+698	+774	+822	+735	+702	+679	+717			
verseas	+665	+669	+663	+742	+688	+698	+659	+659	+659	+658	+659	+659	+660	+660	+660	+660	+660	+660	+660			
ummary	of populat	ion change	9																		2012-2031	1
atural cha		+18 +462	+6		-28 +728	-42 +757	-56 +664	-74 +676	-95 +709		-144 +1,086	-168 +1,236	-194 +1,358	-221 +1,434	-246 +1,482	-272 +1,395	-303 +1,362	-333 +1,339	-364		-2,717 +18,483	.0
et migrati et change	+232	+462	+593		+728	+757	+609	+602	+614		+1,086	+1,236	+1,164	+1,434		+1,123	+1,362	+1,339	+1,377 +1,013		+15,766	+91
rude Birth rude Dea	9.75 10.23	9.68 9.56	9.47	9.35	9.19 9.38	9.04 9.31	8.92 9.28	8.80 9.26	8.67 9.28	8.54 9.31	8.41 9.32	8.30 9.34	8.19 9.38	8.08 9.44	7.99 9.49	7.92 9.56	7.85 9.67	7.79 9.77	7.73 9.89			
rude Net l		3.00	3.80		4.68	4.84	4.23	4.29	4.48		6.80	7.69	8.39	8.79		8.43	8.17		8.16			
mm	ory of B	anulati	an aat	imates/f	0.00004																	
	Population		on est	IIIIales/I	orecasi	.5																
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031		
-4 -10	7,682 9,262	7,750 9.406	7,784 9.501	7,750 9.687	7,667 9.860	7,598 9,949	7,539 10.054	7,470 10,124	7,409 10,155		7,286 10.059	7,227 9.993	7,170 9.945	7,118 9.885		7,033 9,770	7,003 9,711	6,979 9.654	6,961 9.598	6,948 9.546		
-10 1-15	9,262 8,495	9,406 8,296	9,501 8,223		9,860 8,228	9,949 8,430	10,054 8,579		10,155 8,848		9,123	9,993 9,257	9,945	9,885	9,829					9,546 9,196		
6-17 8-59Fema	3,542	3,691 89,364	3,738 89,045	3,639	3,537 89,056	3,406 89,083	3,347 88,988	3,445 88,663	3,497 88,341		3,675 87,975	3,722	3,747 88,195	3,805 88,456	3,866					3,940 89,925		
0/65 -74	20,165	20,639	21,045	21,419	89,056 21,860	22,123	22,341	22,495	22,702	22,730	22,424	22,487	22,620	22,939	23,352	23,829	24,274	24,770	25,273	25,712		
5-84 5+	9,683 4,592	9,780 4,631	9,952 4,750		10,145 4,992	10,344 5.114	10,739 5,174	11,171 5.315	11,570 5.450		12,972 5.825	13,578 6.040	14,046 6.300	14,413 6.513		14,982 6.943	15,150 7,288	15,230 7,702	15,324 8.075	15,365 8.531		
otal	153,399	153,558	154,037		155,346	156,046	156,761	157,370	157,972		159,340	160,282	161,351	162,515		164,963				169,165		
onen-i-	nev resi	maan r	and a	ratio																		
epender 15 / 16-6	ncy ratios, i	nean age 0.26	and sex i		0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.26	0.26	0.26		
5+/16-65		0.31	0.32	0.33	0.34	0.34	0.35	0.36	0.36	0.37	0.38	0.38	0.39	0.40	0.40	0.41	0.42	0.43	0.43	0.44		
15 and 69 edian age		0.57 36.2	0.58 36.3		0.60 36.4	0.61 36.5	0.62 36.7	0.63 36.9	0.64 37.2		0.65 37.6	0.66 37.8	0.66 38.1	0.67 38.2	0.67 38.4	0.67 38.5	0.68 38.7	0.69		0.70 39.4		
edian age	39.7	40.2	40.7	41.0	41.3	41.6	41.9	42.2	42.5	42.7	42.9	43.2	43.4	43.5	43.7	43.8	44.0	44.2	44.4	44.7		
ex ratio m	93.7	94.6	95.3	95.7	96.1	96.5	96.8	97.2	97.5	97.7	97.9	98.1	98.2	98.3	98.4	98.5	98.6	98.7	98.9	99.1		
nulasi.	n impact o	f const!																				
mber of		-43	t -42	-43	-45	-45	-46	-45	-45	-45	-45	-44	-45	-44	-44	-44	-44	-44	-44	-43		
ousehold umber of		61,727	62,246	62,761	63,307	63,859	64,433	65,006	65,578	66,147	66,719	67,326	67,983	68,641	69,339	70,027	70,726	71,404	72,077	72,774	11,342	Househo
nange in l	Households	+295	+519	+515	+546	+552	+574	+573	+572	+569	+572	+607	+657	+658	+697	+689	+698	+678	+674	+696	+597	
imber of nange in	63,852 over previou	64,158 +307	64,698 +540		65,801 +568	66,375 +574	66,971 +596	67,567 +596	68,162 +595		69,348 +595	69,979 +631	70,661 +683	71,345 +684	72,070 +725	72,786 +716	73,512 +726	74,217 +705	74,917 +700	75,640 +723	11,788 +620	
bour Fo	orce																					
		72,588	72,721	72,843	73,006	73,054	73,135	73,233	73,375	73,281	73,124	72,936	72,700	72,879	73,104	73,310	73,484	73,616	73,750	73,916	1,201	Labour F
umber of																						р
	Labour Forc	-126 64,163	+132 65,184		+163 67,246	+47 68,197	+81 69,181	+98 70,176	+142 71,224		-156 70,981	-189 70,798	-236 70,569	+179 70,742		+205 71,161	+174 71,330	+132 71,458	+134 71,588	+166 71,749		

Scenario B: 2012 Headship Rates 'Partial Catch Up' (Sensitivity)

ropula	ition E	sumat	es and	Forec	asts			NLP														
Compo	nents	of Popu	ılation	Change	•		Canter	bury														
		ning July 1. 2013-14			2016-17	2017-19	2018-19	2010.20	2020-21	2021-22	2022-23	2023-24	2024-25	2025.26	2026-27	2027-28	2028.20	2029-30	2030-31			
irths	2012-13	2013-14	2014-15	2013-16	2010-17	2017-10	2010-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-23	2023-20	2020-27	2021-20	2020-29	2029-30	2030-31			
lale emale	767 730	762 726	749 713		733 698			710 676					647			639						
II Births	1,497	1,488	1,462	1,449	1,432	1,414	1,402	1,387	1,373	1,358	1,345	1,334	1,326	1,319	1,314	1,310	1,307	7 1,306	1,304			
FR irths input	1.51	1.53	1.52	1.52	1.52	1.51	1.51	1.51	1.51	1.51	1.51	1.50	1.50	1.49	1.48	1.47	1.47	7 1.46	1.46			
eaths																						
fale emale	721 849	687 783	681 775	683 773	689 771			699 762														
MR: male:	1,570 103.5	1,471 96.7	1,456	1,457 91.4	1,460			1,461 83.1	1,468													
MR: femal	106.9	98.0	95.5		92.5			86.5	84.7		81.2	79.8				74.4	73.4					
MR: person	105.3 79.2	97.4 80.0	94.6	92.8 80.7	91.1 80.9			84.9 81.8	83.1													
xpectation	83.0	83.8	84.1	84.3	84.5	84.7	84.9	85.1	85.3	85.6	85.8	86.0	86.2	86.4	86.5	86.7	86.8	87.0	87.1			
xpectation Deaths inp	81.3	82.1	82.4	82.6	82.8	83.1	83.3	83.6	83.8	84.0	84.2	84.5	84.7	84.9	85.0	85.2	85.4	85.5	85.7			
	on from th																					
Male Female	5,584 6,279	5,575 6,229	5,590 6,226	5,611 6,255	5,626 6,248			5,603 6,174	5,584 6,141			5,728	5,814		5,985							
A// SMigR:mal	11,863 0.2	11,804	11,817	11,867	11,874			11,776	11,725				12,225		12,602	12,694						
SMigR: fem	0.2	0.2	0.2	0.2	0.2		0.2	0.2	0.2		0.2	0.2	0.2	0.2	2 0.2	0.2	0.2	2 0.2	2 0.2			
Viigrants in	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
Out-migra Male	tion to the	UK 5,522	5,542	5,555	5,549	5,556	5,562	5,548	5,526	5,492	5,465	5,454	5,481	5,527	7 5,584	5,663	5,734	5,798	3 5,845			
Female	6,770	6,490	6,351	6,329	6,284	6,257	6,260	6,212	6,149	6,082	6,020	6,002	6,046	6,110	6,196	6,297	6,385	6,478	6,524			
A// SMigR:mal	12,296 62.3	12,012 62.0	11,893 62.0		11,834			11,759 61.6								11,959						
SMigR: fem Migrants in	70.0	68.4	67.6		67.4			67.7					66.2									
	on from O																					
Male Female	2,082 2,529	2,072 2,482	2,053 2,444	2,464	2,052 2,445	2,426	2,408	2,007 2,389	1,992	2,359	2,379	2,391	2,432	2,477	2,527	2,565	2,594	2,623	2,646			
A// SMigR:mal	4,611 0.0	4,554 0.0	4,497		4,498			4,397	4,354													
SMigR: fem	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
Vigrants in	•	•	•	•	•	•		•	•	•	•		•	•		•	•	•				
Out-migra Male	tion to Ov	erseas 1,714	1,699	1,687	1,681	1,670	1,669	1,655	1,640	1,644	1,657	1,671	1,698	1,736	1,769	1,786	1,806	1,823	3 1,846			
Female All	2,218 3,945	2,171 3,885	2,135 3,834	2,129 3,816	2,129 3,810	2,105	2,101	2,082	2,055		2,072	2,084	2,126			2,258						
SMigR: ma	351.3	347.2	343.0	339.9	337.9	334.8	334.2	332.1	329.8	331.5	334.7	337.4	341.5	347.0	351.3	351.6	352.7	7 353.5	355.2			
SMigR: fem Vligrants in	536.6	538.2	538.0	542.5	546.9	544.5	546.9	547.2	545.5	550.0	558.8	562.7	572.1	581.2	590.6	595.1	598.5	601.9	604.7			
Migration	- Net Flow	s																				
JK Overseas	-433 +665	-208 +669	-76 +663	-18 +742	+40			+17	+51			+577										
		tion chang		7742	7000	7030	1035	7038	7000	7030	7035	7038	7000	700	7000	7000	7000	7000	7 4000		2012-203	
Natural cha	-73	+18	+6		-28			-74													-2,717	
Net migration	+232	+462	+586	+724 +716	+728			+676													+18,483	
Crude Birth	9.75	9.68	9.47	9.35	9.19	9.04	8.92	8.80	8.67	8.54	8.41	8.30	8.19	8.08	7.99	7.92	7.85	5 7.79	7.73		,	
Crude Deal Crude Net I	10.23 1.51	9.56 3.00	9.43	9.40	9.38		9.28	9.26	9.28		9.32											
Summa	arv of F	Populat	ion est	imates/	forecas	sts																
	Population	at mid-yea	r		504																	
0-4	2012 7,682	2013 7,750	2014 7,784	2015 7,750	2016 7,667			2019 7,470			2022 7,286	2023				2027 7,033				2031 6,948		
5-10	9,262	9,406	9,501	9,687	9,860	9,949	10,054	10,124	10,155	10,136	10,059	9,993	9,945	9,885	9,829	9,770	9,711	9,654	9,598	9,546		
11-15 16-17	8,495 3,542	8,296 3,691	8,223 3,738		8,228 3,537			8,686 3,445	8,848											9,196 3,940		
18-59Fema	89,978	89,364	89,045	89,027	89,056	89,083	88,988	88,663	88,341	88,137	87,975	87,976	88,195	88,456	88,769	89,109	89,372	2 89,583	89,749	89,925		
60/65 -74 75-84	20,165 9,683	20,639 9,780	21,045 9,952		21,860 10,145			22,495 11,171	22,702											25,712 15,365		
35+ Total	4,592 153,399	4,631 153,558	4,750 154,037	1,010	4,992 155,346			5,315									- 1,000	,		8,531 169,165		
					.33,340		.30,701	131,370	.51,812			.00,202		102,315	03,720	.04,003	00,000	07,140		100,100		
0-15 / 16-69	cy ratios, 0.26	mean age 0.26	and sex i	0.26	0.27		0.27	0.27							7 0.27	0.27	0.26	0.26	0.26	0.26		
65+ / 16-65 0-15 and 69	0.30 0.56	0.31 0.57	0.32		0.34			0.36												0.44		
Median age	36.2	36.2	36.3	36.3	36.4	36.5	36.7	36.9	37.2	37.4	37.6	37.8	38.1	38.2	2 38.4	38.5	38.7	7 39.0	39.2	39.4		
Median age Sex ratio m	39.7 93.7	40.2 94.6	40.7 95.3		41.3 96.1			42.2 97.2												44.7 99.1		
Population Number of p		f constrair	nt -42	-43	-45	-45	-46	-45	-45	-45	-45	-44	-45	i -44	1 -44	-44	1 -44	1 -44	1 -44	-43		
Household	ls																					
Number of Change in F	61,432	61,727 +295	62,246		63,307 +546			65,096 +620				67,602								73,441 +749	12,009 +632	Household p.
Number of	63,852	64,158	64,698	65,234	65,801	66,375	67,017	67,660	68,298	68,934	69,579	70,265	71,002	71,738	72,515	73,282	74,060	74,812	2 75,555	76,334	12,482	Dw ellings
Change in	over previou	+307	+540	+535	+568	+574	+642	+644	+638	+636	+645	+686	+737	+736	+778	+767	+778	3 +752	2 +743	+778	+657	р.:
abour Fo			~																	-	4.20	
Number of Change in L	72,714 abour Forc	72,588 -126	72,721 +132	+123	73,006 +163			73,233 +98												73,916 +166	+63	Labour Fo
Number of	69,575	64,163	65,184		67,246			70,176				70,798								71,749 ±161	2,174	
hange in	over previou	-5,411	+1,020	+1,007	+1,055	+951	+984	+995	+1,048	-92	-151	-183	-229	+173	+219	+199	+169	+128	+130	+161	+114	

Scenario C: Economic Forecast (208 jobs p.a.)

-opula	ition E	sumat	es and	l Foreca	ISTS		N	ILP														
				Change			Canterb	ury														
	Year begin 2012-13			2015-16 2	016-17	2017-18	2018-19 20	119-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31			
irths																						
ale emale	767 730	900 857	871 830	848 808	819 780		773 736	750 715	726 692	723 689	719 685	716 682	713 679		684 652	670 638	658 627	648 617				
Il Births	1,497	1,756	1,701	1,656	1,598		1,509	1,465	1,418	1,412	1,405	1,398	1,391	1,365	1,336	1,309	1,285	1,265	1,248			
rths input	1.01	1.53	1.52	1.52	1.52	1.51	1.51	10.1	1.01	1.51	1.51	1.50	1.50	1.49	1.48	1.47	1.47	1.46	1.46			
eaths																						
ale	721	704	696	696	699		702	703	709	720	729	738	750	763	775	786	801	815	831			
male Il deaths	849 1,570	803 1,508	792 1,488		782 1,481			766 1,470	764 1,473	767 1,486	769 1,498	775 1,513	783 1,533			807 1,593	819 1,620					
MR: male:	103.5	96.7	93.6	91.4	89.5	87.5	85.2	83.1	81.5	80.0	78.4	76.8	75.5	74.3	73.1	71.8	70.9	69.9	69.0			
MR: femal MR: perso	106.9	98.0 97.4	95.5 94.6	94.1	92.5 91.1		88.3 86.8	86.5 84.9	84.7 83.1	83.0 81.5	81.2 79.8	79.8 78.3	78.4 76.9	77.0 75.6	75.6 74.3	74.4 73.1	73.4 72.1	72.3 71.1	71.5 70.3			
pectation	79.2	80.0	80.4	80.7	81.0	81.3		81.9	82.2	82.4	82.6	82.9	83.1	83.3	83.5	83.7	83.9	84.1	84.2			
pectation pectation	82.7 81.1	83.7 82.0	84.0 82.3	84.2 82.6	84.4 82.8		84.9 83.3	85.1 83.6	85.3 83.8	85.6 84.1	85.8 84.3	86.0 84.5	86.2 84.7	86.4 84.9	86.6 85.1	86.8 85.3	87.0 85.5	87.1 85.6	87.3 85.8			
aths inpu	ıt																					
-migratio	on from the	e UK																				
nle male	8,361 9,401	5,060 5,653	5,079 5,657	5,040 5,619	5,166 5,737		5,259 5,809	5,242 5,777	5,771 6,346	5,817 6,395	5,880 6,476	5,956 6,558	5,820 6,417	5,882 6,488	5,972 6,603	6,030 6,668	6,087 6,732	6,156 6,798	6,198 6,845			
male /	9,401 17,762	5,653 10,713	5,657 10,735	10,659	10,903		5,809 11,068	11,019	6,346 12,117	6,395 12,212	6,476 12,356	6,558 12,514	6,417 12,237	6,488 12,369	6,603 12,575	6,668 12,698	6,732 12,820	6,798 12,954	6,845 13,043			
vligR: mal vligR: fem	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2			
grants in	•	• 0.2	•	•	•	• 0.2	0.2	• 0.2	•	•	• 0.2	• 0.2	•	•	•	•	• 0.2	•	•			
ut-miara	tion to the	UK																				
ile	2,875	6,024	6,046	6,120	6,005		5,919	5,905	5,340	5,291	5,254	5,226	5,475	5,547	5,597	5,661	5,734	5,798	5,865			
male I	3,522 6,397	7,079 13,103	6,928 12,974	6,972 13,092	6,800 12,805			6,612 12,516	5,942 11,282	5,860 11,151	5,787 11,041	5,751 10,976	6,040 11,515	6,132 11,679		6,295 11,956	6,386 12,121	6,478 12,276	6,546 12,412			
/ligR: mal	32.4	60.7	62.3	64.5	64.8	65.9	66.7	68.0	62.8	61.9	60.9	59.9	61.7	62.1	62.1	62.3	62.6	62.8	63.0			
WigR: fem grants in	36.4	65.1	66.7	69.8	70.8	72.6	74.5	76.5	71.1	70.0	68.5	67.1	69.1	69.6	69.8	70.1	70.5	71.0	71.2			
	6																					
-migration	on from Ov 1,157	/erseas 1,160	1,157	1,210	1,175	1,183	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156			
male	958	959	958	984	967	970	957	957	957	957	957	957	957	957	957	957	957	957	957			
/ //igR:mal	2,115	2,119	2,115	2,194	2,141			2,113	2,113	2,113	2,113	2,113	2,113	2,113	2,113 0.0	2,113 0.0	2,113	2,113	2,113			
/ligR: fem	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
grants in	•	•		•	•		•	•	•	•	•				•	•						
ut-migra	tion to Ove	erseas 775	775	775	775	775	775	775	775	775	775	775	775	775	775	775	775	775	775			
emale	632	633	634	633	634			634	634	634	634	634	634	634	634	634	634	634	634			
/	1,406 157.4	1,408 138.7	1,409 141.6	1,408 144.9	1,409 149.1			1,409 160.7	1,409	1,409 165.3	1,409	1,409	1,409 161.4	1,409	1,409 159.5	1,409 158.3	1,409 156.9	1,409 155.6	1,409 154.2			
VligR: mal VligR: fem	153.0	134.3	140.6	146.1	153.1	152.8 160.0		175.8	165.2 185.0	187.1	164.7 187.5	186.0	182.9	160.5 181.9	181.0	179.8	178.7	177.9	177.3			
grants in	•	•	•	•	•	•	•	•	•	•	•	•	•	٠	•	•	•	•	•			
	- Net Flow	s																				
K verseas	+11,365	-2,390 +712	-2,239 +706	-2,433 +787	-1,903 +732			-1,497 +704	+834 +704	+1,061 +704	+1,315 +704	+1,537	+722 +704	+690 +704	+767 +704	+742 +704	+699	+677	+632 +704			
ummary atural cha	of populat	tion chang +249	e +214	+172	+117	+78	+39	-5	-55	-75	-93	-115	-142	-187	-235	-284	-335	-383	-428		-1,541	
et migrati	+12,074	-1,678	-1,533	-1,646	-1,171	-939	-810	-793	+1,538	+1,765	+2,019	+2,241	+1,425	+1,394	+1,471	+1,446	+1,403	+1,381	+1,335		+20,922	
et change rude Birth	+12,001 9.39	-1,429 10.67	-1,319 10.42	-1,474 10.23	-1,053 9.95		-771 9.50	-798 9.27	+1,483 8.95	+1,690 8.82	+1,926 8.68	+2,126 8.53	+1,284 8.40	+1,207 8.18	+1,236 7.95	+1,162 7.73	+1,067 7.54	+998	+907 7.24		+19,381	
rude Dear	9.85	9.15	9.11	9.17	9.22			9.30	9.30	9.29	9.26	9.23	9.26 8.61	9.30	9.35	9.41	9.51	9.61	9.73			
rude Net I	75.75	-10.19	-9.39	-10.17	-7.29	-5.88	-5.10	-5.02	9.71	11.03	12.48	13.68	8.61	8.36	8.75	8.55	8.23	8.06	7.75			
			ion est	imates/fo	recas	sts																
	Population 2012	at mid-yea 2013	r 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031		
4	2012 7,682	2013 8,164	2014 8,322	2015 8,396	2016 8,382		2018 8,349	2019 8,161	2020 7,969	2021 7,844	2022 7,745	2023 7,666	7,602	2025 7,519	2026 7,442	2027 7,349	2028 7,246	7,133	2030 7,012	2031 6,898		
10 I-15	9,262	9,725	9,767	9,911 8,592	10,032			10,349 8,960	10,482	10,624 9,304	10,681 9,491	10,718	10,785 9,808			10,385	10,266			9,945 10,168		
i-17	8,495 3,542	8,963 4,837	8,702 5,287	8,592 5,225	8,610 4,951			8,960 4,827	9,105 4,884	9,304 5,012	9,491 5,232	9,702 5,354	9,808 5,443	10,010 5,533	10,156 5,592	10,230 5,726	10,263 5,827	10,337 5,793	10,256 5,868	10,168 6,012		
-59Fema /65 -74	89,978 20,165	98,000 21,020	95,603 21,345	93,744 21,642	91,924 21,993		88,834 22,324	87,267 22,412	85,693 22,550	86,082 22,606	86,577 22,334	87,280 22,434	88,300 22,605	88,612 22,921	88,908 23,336	89,220 23,820	89,514 24,273	89,782 24,773		90,185 25,720		
5-84	20,165 9,683	21,020 9,922	21,345 10,073	21,642 10,158	21,993 10,206		22,324 10,757	11,167	22,550 11,546	22,606 12,053	22,334 12,953	13,560	22,605 14,026	22,921 14,387	23,336 14,727	23,820 14,929	24,273 15,097	24,773 15,173	25,280 15,265	25,720 15,314		
tal	4,592 153,399	4,768 165,400	4,871 163,970	4,984 162,651	5,079		5,224 159,262	5,349 158,491	5,465 157,694	5,652 159,177	5,854 160,867	6,078 162,793	6,351 164,919	6,560 166,203	6,729 167,410	6,985 168,646	7,323 169,808	7,730 170,875	8,098 171,873	8,538 172,780		_
					.01,177	100,124	100,202	1.50,491	101,094	100,177	100,007	102,793	104,919	100,203	107,410	100,046	103,008	170,075	171,073	.12,100		
penden 15 / 16-6	cy ratios, i	mean age	and sex r	atio 0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.00	0.29	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27		
+/16-65	0.26	0.25	0.30	0.31	0.27			0.35	0.29	0.29	0.29	0.29	0.38		0.28	0.28		0.27		0.27		
15 and 6 dian age	0.56 36.2	0.54 33.9	0.56 34.3	0.57 34.8	0.59 35.3		0.62 36.3	0.64 36.7	0.65 37.2	0.66 37.3	0.66 37.4	0.67 37.5	0.67 37.6	0.67 37.8	0.67 38.0	0.68 38.3	0.68 38.6	0.69	0.69 39.5	0.70 39.9		
dian age	39.7	37.7	38.5	39.2	40.0	40.6	41.2	41.8	42.4	42.4	42.5	42.5	42.4	42.6	42.7	42.9	43.1	43.4	43.6	43.9		
x ratio m	93.7	94.0	94.7	95.2	95.8	96.2	96.6	97.1	97.5	97.7	97.9	98.0	98.1	98.2	98.3	98.4	98.6	98.7	98.9	99.0		
pulation mber of p	n impact o	f constrain +11,798	nt -2,182	-2,162	-2,415	-1,943	-1,742	-1,519	-1,514	+784	+845	+888	+960	+24	-83	-55	+7	-3	-2	-85		
		, , 50	_,102	_,702	_,0	1,040	.,	.,5.0	.,014		.0-0	1000	.550	.24			.,,		2	- 3		
bour Fo		78,946	78,084	77,254	76,438	75,643	74,870	74,125	73,390	73,604	73,819	74,033	74,247	74,462	74,676	74,890	75,104	75,319	75,533	75,747	3,033	Labour
ange in L	abour Forc	+6,231	-862	-830	-816	-794	-773	-745	-734	+214	+214	+214	+214	+214	+214	+214	+214	+214	+214	+214	+160)
	69,575 over previou	69,783 +208	69,991 +208	70,199 +208	70,407 +208			71,031 +208	71,239 +208	71,447 +208	71,655 +208	71,863 +208	72,071 +208	72,279 +208	72,487 +208	72,695 +208	72,903 +208	73,111 +208	73,319 +208	73,527 +208	3,952 +208	
		.230	50			50					50	.230	50			.230	50					
ange in																						
nange in ousehold		66,073 +3,652	66,131 +58	66,199 +67	66,292			66,747	66,894 +147	67,714 +820	68,567 +852	69,451 +884	70,412 +961	71,109 +697	71,809 +700	72,523 +714	73,278 +755	74,025 +747	74,774 +749	75,533 +759	13,112 +690	

Scenario D: Economic Futures 'Preferred' Scenario (328 jobs p.a.)

		stimat	and	. 5.50				ILP														
		of Popu			•		Canterb	ury														
		ning July 1s 2013-14			2016-17	2017-18	2018-19 2	019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31			
le	767	903	877	857	830			770						732			696		679			
male Births	730 1,497	860 1,762	836 1,713	816 1,673	791 1,621			733 1,502						697 1,429	1,404				647 1,326			
2	1.51	1.53	1.52	1.52	1.52			1.51	1.51	1.51	1,457			1.49			1.47		1.46			
ths input																						
aths		200											200									
nale	721 849	705 804	697 792	697 789	700 783			705 769		722 769	731			767 793	779	790 811	806 824		836 851			
deaths	1,570	1,508	1,489	1,486	1,484			1,474						1,559			1,630		1,688			
R: male R: fema	103.5 106.9	96.7 98.0	93.6 95.5	91.4 94.1	89.5 92.5			83.1 86.5	81.5					74.3 77.0		71.8	70.9					
R: perso	105.3	97.4	94.6	92.8				84.9						75.6			72.1		70.3			
ectatior ectatior	79.2 82.7	80.0 83.7	80.4 84.0	80.7 84.2	81.0 84.4			81.9 85.1	82.2 85.3					83.3 86.4			83.9 87.0		84.2 87.3			
ectation	81.1	82.0	82.3	82.6				83.6			84.3			84.9		85.3	85.5		85.8			
ths inpu	ut																					
	on from th																					
e nale	8,421 9,468	5,115 5,714	5,130 5,713	5,087 5,670	5,209 5,786			5,283 5,821	5,816 6,396					5,924 6,535					6,238 6,889			
	17,888	10,829	10,843	10,757	10,995			11,104			12,453		12,328	12,459		12,786	12,906		13,127			
gR: ma gR: fem	0.2	0.1	0.1	0.1	0.2			0.2						0.2		0.2	0.2		0.2			
ants in	• 0.3	•	•	• 0.2	• 0.2	0.2	•	•	• 0.2	• 0.2	0.2	. 0.2	•	• 0.2	• 0.2	• 0.2	•	• 0.2	•			
migra	tion to the	UK																				
9	2,818	5,970	5,996	6,074	5,962			5,865		5,246				5,505	5,555	5,619	5,693		5,826			
ale	3,452 6,270	7,016 12,987	6,871 12,867	6,920 12,994	6,751 12,713			6,567 12,432	5,892	5,810 11,056				6,085 11,590	6,164 11,718	6,248	6,341 12,034		6,502 12,328			
gR: ma	31.7	60.0	61.5	63.5	63.8	64.7	65.4	66.5		60.2	59.2	58.1	59.8	60.1	60.1	60.2	60.4		60.7			
R: fem ants in	35.7	64.3	65.8	68.7	69.5	71.0	72.7	74.5	69.0	67.7	66.2	64.7	66.6	67.0	67.1	67.3	67.6	68.0	68.2			
	on from O	erease																				
igrau	1,157	1,160	1,157	1,210	1,175	1,183	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156	1,156			
ale	958	959	958	984	967			957	957					957			957		957			
R: ma	2,115 0.0	2,119	2,115 0.0	2,194	2,141			2,113						2,113								
R: fem	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
ants in											-											
-migra	tion to Ove	rseas 775	775	775	775	5 775	775	775	775	775	775	775	775	775	775	775	775	775	775			
ale	632	633	634	633	634			634						634		634	634		634			
gR: ma	1,406 157.4	1,408 138.4	1,409 140.9	1,408 143.7	1,409			1,409						1,409 155.9	1,409	1,409	1,409 151.8		1,409			
R: fem	153.0	133.9	139.6	144.6				171.6						174.8			170.8					
ants in	•	•	•	•	•	•	•	•		•			•	•	•	•	•	•	•			
ration	- Net Flow																					
rseas	+11,618 +709	-2,158 +712	-2,024 +706	-2,237 +787	-1,718 +732			-1,328 +704	+1,025	+1,251 +704	+1,508		+903 +704	+869	+945	+919	+873 +704		+799 +704			
	of nonular	ion chang																			2012-2031	
iral cha	-74	+254	+224	+187	+137	+102	+68	+29	-18	-33	-47	-65	-88	-130	-175	-222	-272	-318	-362		-803	
nigrati	+12,327	-1,446 -1,192	-1,317	-1,450 -1,263	-986 -849			-624 -595		+1,955				+1,573		+1,622	+1,576		+1,503		+24,517 +23,715	
change de Birth	+12,253 9.38	-1,192 10.68	-1,094 10.45	-1,263 10.28	-849 10.03			-595 9.41	+1,711	+1,922				+1,443 8.42			+1,304		+1,141		+23,715	
ie Dear	9.84 77.27	9.14 -8.76	9.08	9.13 -8.91	9.18			9.23	9.22		9.16			9.18 9.26	9.22	9.27	9.36 9.05	9.45	9.56 8.51			
							-3.87	-3.81	10.70	12.00	13.47	14.03	5.34	5.20	9.03	5.35	9.03	0.03	0.31			
	_	opulati		mates/	forecas	sts																
	Population 2012	at mid-year 2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031		
	7,682	8,173	8,344	8,433	8,438	8,429	8,452	8,290	8,122	8,022	7,948	7,893	7,854	7,794	7,738	7,665	7,579	7,482	7,376	7,274		
5	9,262 8,495	9,732 8,971	9,780 8,715	9,932 8,610				10,407 8,995	10,556					10,866 10,093					10,400 10,442	10,319 10,377		
7	3,542	4,847	5,305	5,246	4,972	4,824	4,752	4,850	4,909	5,039	5,262	5,387	5,478	5,571	5,632	5,769	5,874	5,843	5,924	6,078		
Fema -74	89,978 20,165	98,205 21,029	95,999 21,362	94,321 21,667	92,669 22,027			88,465 22,470						90,734 23,036						93,181 25,905		
4	9,683	9,925	10,079	10,166	10,217	10,400	10,774	11,186	11,569	12,080	12,985	13,598	14,069	14,436	14,781	14,989	15,162	15,243	15,341	15,395		
	4,592 153,399	4,770 165,652	4,876 164,460	4,991 163,366	5,088 162,103			5,363 160,027						6,588 169,118		7,017 172,034	7,359 173,434		8,140 175,973	8,584 177,114		
					.02,103	101,234	. 50,550	. 30,021	.03,431	101,142	.00,004	.00,229		,110		2,034		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,513	,114		
nden / 16-6:		mean age 0.25	and sex ra	ntio 0.26	0.27	0.27	0.28	0.28	0.29	0.29	0.29	0.29	0.28	0.28	0.28	0.28	0.28	0.27	0.27	0.27		
16-65	0.30	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.37	0.37	0.38	0.38	0.39	0.39	0.40	0.41	0.41	0.42		
and 6! an age		0.54 33.9	0.55 34.2	0.57 34.6	0.59 35.1			0.63 36.5						0.66 37.4			0.68		0.69 39.0	0.69 39.5		
an age	39.7	37.7	38.4	39.1	39.7	40.3	40.8	41.4	41.9	41.9	42.0	42.0	41.9	42.0	42.1	42.3	42.4	42.6	42.9	43.2		
atio m	93.7	93.9	94.6	95.2	95.7	96.2	96.6	97.0	97.4	97.6	97.8	97.9	97.9	98.1	98.2	98.3	98.4	98.6	98.7	98.9		
latic	n impost -	f constrain																				
	n impact o persons	+12,051	-1,950	-1,947	-2,219	-1,758	-1,563	-1,346	-1,345	+974	+1,035	+1,081	+1,154	+205	+95	+124	+184	+171	+169	+82		
ur Fo	rce																					
ber of	72,714	79,081	78,351	77,650	76,959			75,001	74,379	74,717				76,069	76,407		77,082			78,096	5,382	
ige in L ber of	abour Forc	+6,367 69.903	-730 70.231	-701 70.559	-691 70.887			-630 71.871	-622 72.199					+338		+338	+338		+338 75,479	+338 75.807	+283 6,232	
	over previou	+328	+328	+328	+328			+328	+328					+328		+328	+328		+328	+328	+328	
	is																					
seholo									67.483				71.350	72.134	72.922	73.724	74.569	75.405				
ber of		66,145 +3,724	66,276 +131	66,417 +141	66,584 +168			67,261 +233		68,387 +904	69,326			72,134 +784			+844		76,245 +840	77,095 +850	14,674 +772	

Appendix 3 Mid-Year Estimates Data

Components of Change for England & Wales Mid-2003; revised in light of the 2011 Census. CANTERBURY 136,483 1,381 1,620 -239 10,710 8,861 1,849 1,580 746 834 -433 138,608 Components of Change for England & Wales Mid-2004; revised in light of the 2011 Census CANTERBURY 138,608 1,372 1,729 -357 11,577 9,727 1,850 2,006 1,097 909 -433 140,578 Components of Change for England & Wales Mid-2005; revised in light of the 2011 Census CANTERBURY 140,578 1,357 1,639 -282 10,525 9,595 930 1,947 885 1,062 -417 141,918 Components of Change for England & Wales Mid-2006; revised in light of the 2011 Census CANTERBURY 141,918 1,401 1,552 -151 10,906 9,642 1,264 2,212 1,331 881 -419 143,490 Components of Change for England & Wales Mid-2007; revised in light of the 2011 Census CANTERBURY 143,490 1,403 1,533 -130 11,634 10,265 1,369 2,694 1,740 954 -425 145,193 Components of Change for England & Wales Mid-2008; revised in light of the 2011 Census CANTERBURY 145,197 1,417 1,573 -156 10,369 9,638 731 2,241 1,533 708 -412 146,073 Components of Change for England & Wales Mid-2009; revised in light of the 2011 Census CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census	Name	Mid-Year Start Population	Births	Deaths	Births minus Deaths	Internal In	Internal Out	Internal Net	International	International Emigration	International Net Migration (Excluding Asylum Seekers)	Other Changes	Mid-Year End Population
Components of Change for England & Wales Mid-2003; revised in light of the 2011 Census. CANTERBURY 136,483 1,381 1,620 -239 10,710 8,861 1,849 1,580 746 834 -433 138,608 Components of Change for England & Wales Mid-2004; revised in light of the 2011 Census CANTERBURY 138,608 1,372 1,729 -357 11,577 9,727 1,850 2,006 1,097 909 -433 140,576 Components of Change for England & Wales Mid-2005; revised in light of the 2011 Census CANTERBURY 140,578 1,357 1,639 -282 10,525 9,595 930 1,947 885 1,062 -417 141,918 Components of Change for England & Wales Mid-2006; revised in light of the 2011 Census CANTERBURY 141,918 1,401 1,552 -151 10,906 9,642 1,264 2,212 1,331 881 -419 143,490 Components of Change for England & Wales Mid-2007; revised in light of the 2011 Census CANTERBURY 143,490 1,403 1,533 -130 11,634 10,265 1,369 2,694 1,740 954 -425 145,197 Components of Change for England & Wales Mid-2008; revised in light of the 2011 Census CANTERBURY 145,197 1,417 1,573 -156 10,369 9,638 731 2,241 1,533 708 -412 146,073 Components of Change for England & Wales Mid-2009; revised in light of the 2011 Census CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,22	Components of Ch	ange for I	England &	Wales Mid	I-2002; revi	sed in ligh	nt of the 20	11 Census					
CANTERBURY 136,483 1,381 1,620 -239 10,710 8,861 1,849 1,580 746 834 -433 138,608 Components of Change for England & Wales Mid-2004; revised in light of the 2011 Census CANTERBURY 138,608 1,372 1,729 -357 11,577 9,727 1,850 2,006 1,097 909 -433 140,578 Components of Change for England & Wales Mid-2005; revised in light of the 2011 Census CANTERBURY 140,578 1,357 1,639 -282 10,525 9,595 930 1,947 885 1,062 -417 141,918 Components of Change for England & Wales Mid-2006; revised in light of the 2011 Census CANTERBURY 141,918 1,401 1,552 -151 10,906 9,642 1,264 2,212 1,331 881 -419 143,490 Components of Change for England & Wales Mid-2007; revised in light of the 2011 Census CANTERBURY 143,490 1,403 1,533 -130 11,634 10,265 1,369 2,694 1,740 954 -425 145,197 Components of Change for England & Wales Mid-2008; revised in light of the 2011 Census CANTERBURY 145,197 1,417 1,573 -156 10,369 9,638 731 2,241 1,533 708 -412 146,073 Components of Change for England & Wales Mid-2009; revised in light of the 2011 Census CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148	CANTERBURY	135,381	1,298	1,649	-351	10,545	8,994	1,551	1,534	1,163	371	-433	136,483
Components of Change for England & Wales Mid-2004; revised in light of the 2011 Census CANTERBURY 138,608 1,372 1,729 -357 11,577 9,727 1,850 2,006 1,097 909 -433 140,578 Components of Change for England & Wales Mid-2005; revised in light of the 2011 Census CANTERBURY 140,578 1,357 1,639 -282 10,525 9,595 930 1,947 885 1,062 -417 141,918 Components of Change for England & Wales Mid-2006; revised in light of the 2011 Census CANTERBURY 141,918 1,401 1,552 -151 10,906 9,642 1,264 2,212 1,331 881 -419 143,490 Components of Change for England & Wales Mid-2007; revised in light of the 2011 Census CANTERBURY 143,490 1,403 1,533 -130 11,634 10,265 1,369 2,694 1,740 954 -425 145,193 Components of Change for England & Wales Mid-2008; revised in light of the 2011 Census CANTERBURY 145,197 1,417 1,573 -156 10,369 9,638 731 2,241 1,533 708 -412 146,073 Components of Change for England & Wales Mid-2009; revised in light of the 2011 Census CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228	Components of Ch	ange for I	England &	Wales Mid	l-2003; revi	sed in ligh	nt of the 20	11 Census					
CANTERBURY 138,608 1,372 1,729 -357 11,577 9,727 1,850 2,006 1,097 909 -433 140,578 Components of Change for England & Wales Mid-2005; revised in light of the 2011 Census CANTERBURY 140,578 1,357 1,639 -282 10,525 9,595 930 1,947 885 1,062 -417 141,918 Components of Change for England & Wales Mid-2006; revised in light of the 2011 Census CANTERBURY 141,918 1,401 1,552 -151 10,906 9,642 1,264 2,212 1,331 881 -419 143,490 Components of Change for England & Wales Mid-2007; revised in light of the 2011 Census CANTERBURY 143,490 1,403 1,533 -130 11,634 10,265 1,369 2,694 1,740 954 -425 145,195 Components of Change for England & Wales Mid-2008; revised in light of the 2011 Census CANTERBURY 145,197 1,417 1,573 -156 10,369 9,638 731 2,241 1,533 708 -412 146,075 Components of Change for England & Wales Mid-2009; revised in light of the 2011 Census CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228	CANTERBURY	136,483	1,381	1,620	-239	10,710	8,861	1,849	1,580	746	834	-433	138,608
Components of Change for England & Wales Mid-2005; revised in light of the 2011 Census CANTERBURY 140,578 1,357 1,639 -282 10,525 9,595 930 1,947 885 1,062 -417 141,918 Components of Change for England & Wales Mid-2006; revised in light of the 2011 Census CANTERBURY 141,918 1,401 1,552 -151 10,906 9,642 1,264 2,212 1,331 881 -419 143,490 Components of Change for England & Wales Mid-2007; revised in light of the 2011 Census CANTERBURY 143,490 1,403 1,533 -130 11,634 10,265 1,369 2,694 1,740 954 -425 145,197 Components of Change for England & Wales Mid-2008; revised in light of the 2011 Census CANTERBURY 145,197 1,417 1,573 -156 10,369 9,638 731 2,241 1,533 708 -412 146,073 Components of Change for England & Wales Mid-2009; revised in light of the 2011 Census CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655	Components of Ch	ange for I	England &	Wales Mid	l-2004; revi	sed in ligh	nt of the 20	11 Census					
CANTERBURY 140,578 1,357 1,639 -282 10,525 9,595 930 1,947 885 1,062 -417 141,918 Components of Change for England & Wales Mid-2006; revised in light of the 2011 Census CANTERBURY 141,918 1,401 1,552 -151 10,906 9,642 1,264 2,212 1,331 881 -419 143,490 Components of Change for England & Wales Mid-2007; revised in light of the 2011 Census CANTERBURY 143,490 1,403 1,533 -130 11,634 10,265 1,369 2,694 1,740 954 -425 145,197 Components of Change for England & Wales Mid-2008; revised in light of the 2011 Census CANTERBURY 145,197 1,417 1,573 -156 10,369 9,638 731 2,241 1,533 708 -412 146,073 Components of Change for England & Wales Mid-2009; revised in light of the 2011 Census CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655 CANTERBURY 146,396 1,439 1,	CANTERBURY	138,608	1,372	1,729	-357	11,577	9,727	1,850	2,006	1,097	909	-433	140,578
Components of Change for England & Wales Mid-2006; revised in light of the 2011 Census CANTERBURY 141,918 1,401 1,552 -151 10,906 9,642 1,264 2,212 1,331 881 -419 143,490 Components of Change for England & Wales Mid-2007; revised in light of the 2011 Census CANTERBURY 143,490 1,403 1,533 -130 11,634 10,265 1,369 2,694 1,740 954 -425 145,197 Components of Change for England & Wales Mid-2008; revised in light of the 2011 Census CANTERBURY 145,197 1,417 1,573 -156 10,369 9,638 731 2,241 1,533 708 -412 146,073 Components of Change for England & Wales Mid-2009; revised in light of the 2011 Census CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,655	Components of Ch	ange for I	England &	Wales Mid	l-2005; revi	sed in ligh	nt of the 20	11 Census					
CANTERBURY 141,918 1,401 1,552 -151 10,906 9,642 1,264 2,212 1,331 881 -419 143,490 Components of Change for England & Wales Mid-2007; revised in light of the 2011 Census CANTERBURY 143,490 1,403 1,533 -130 11,634 10,265 1,369 2,694 1,740 954 -425 145,197 Components of Change for England & Wales Mid-2008; revised in light of the 2011 Census CANTERBURY 145,197 1,417 1,573 -156 10,369 9,638 731 2,241 1,533 708 -412 146,073 Components of Change for England & Wales Mid-2009; revised in light of the 2011 Census CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,653	CANTERBURY	140,578	1,357	1,639	-282	10,525	9,595	930	1,947	885	1,062	-417	141,918
Components of Change for England & Wales Mid-2007; revised in light of the 2011 Census CANTERBURY 143,490 1,403 1,533 -130 11,634 10,265 1,369 2,694 1,740 954 -425 145,197 Components of Change for England & Wales Mid-2008; revised in light of the 2011 Census CANTERBURY 145,197 1,417 1,573 -156 10,369 9,638 731 2,241 1,533 708 -412 146,073 Components of Change for England & Wales Mid-2009; revised in light of the 2011 Census CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,653	Components of Ch	ange for I	England &	Wales Mid	l-2006; revi	sed in ligh	nt of the 20	11 Census					
CANTERBURY 143,490 1,403 1,533 -130 11,634 10,265 1,369 2,694 1,740 954 -425 145,197 Components of Change for England & Wales Mid-2008; revised in light of the 2011 Census CANTERBURY 145,197 1,417 1,573 -156 10,369 9,638 731 2,241 1,533 708 -412 146,073 Components of Change for England & Wales Mid-2009; revised in light of the 2011 Census CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,653	CANTERBURY	141,918	1,401	1,552	-151	10,906	9,642	1,264	2,212	1,331	881	-419	143,490
Components of Change for England & Wales Mid-2008; revised in light of the 2011 Census CANTERBURY 145,197 1,417 1,573 -156 10,369 9,638 731 2,241 1,533 708 -412 146,073 Components of Change for England & Wales Mid-2009; revised in light of the 2011 Census CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,653	Components of Ch	ange for I	England &	Wales Mid	I-2007; revi	sed in ligh	nt of the 20	11 Census					
CANTERBURY 145,197 1,417 1,573 -156 10,369 9,638 731 2,241 1,533 708 -412 146,073 Components of Change for England & Wales Mid-2009; revised in light of the 2011 Census CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,653	CANTERBURY	143,490	1,403	1,533	-130	11,634	10,265	1,369	2,694	1,740	954	-425	145,197
Components of Change for England & Wales Mid-2009; revised in light of the 2011 Census CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,653	Components of Ch	ange for I	England &	Wales Mid	l-2008; revi	sed in ligh	nt of the 20	11 Census					
CANTERBURY 146,073 1,467 1,594 -127 11,166 10,622 544 2,403 2,091 312 -415 146,396 Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,653	CANTERBURY	145,197	1,417	1,573	-156	10,369	9,638	731	2,241	1,533	708	-412	146,073
Components of Change for England & Wales Mid-2010; revised in light of the 2011 Census CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,653	Components of Ch	ange for I	England &	Wales Mid	l-2009; revi	sed in ligh	nt of the 20	11 Census					
CANTERBURY 146,396 1,439 1,460 -21 11,570 10,175 1,395 2,325 1,097 1,228 -378 148,650	CANTERBURY	146,073	1,467	1,594	-127	11,166	10,622	544	2,403	2,091	312	-415	146,396
2.11.12.12.11.1 1.6,666 1,166 1,	Components of Ch	ange for I	England &	Wales Mid	l-2010; revi	sed in ligh	nt of the 20	11 Census					
	CANTERBURY	146,396	1,439	1,460	-21	11,570	10,175	1,395	2,325	1,097	1,228	-378	148,653
	Components of Ch		England &	Wales Mid	l-2011; revi	,	nt of the 20	11 Census		,	, -		,
	-									1.336	1.351	-352	150.600

Appendix 4 2012 based household projections analysis of gross newly forming households

Age		Tota	al Hous	sehold	S			5 Year g	ross ho	usehold	s	А	nnual gi	ross hou	seholds	;	Total
bands	<u>2012</u>	<u>2017</u>	<u>2022</u>	<u>2027</u>	<u>2032</u>	<u>2037</u>	<u>2012-</u> <u>17</u>	<u>2017-</u> <u>22</u>	<u>2022-</u> <u>27</u>	<u>2027-</u> <u>32</u>	<u>Total</u>	2012-17	<u>2017-</u> <u>22</u>	<u>2022-</u> <u>27</u>	<u>2027-</u> <u>32</u>	<u>Total</u>	
0_4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5_9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10_14	0	0	0	0	0	0	222	224	253	254	953	44	45	51	51	48	
15_19	232	222	224	253	254	248	3,048	2,862	3,085	3,424	12,419	610	572	617	685	621	
20_24	3505	3280	3084	3309	3677	3759	28	134	155	34	351	6	27	31	7	18	1,029
25_29	3495	3533	3414	3239	3343	3667	713	838	787	701	3,039	143	168	157	140	152	1,023
30_34	3747	4208	4371	4201	3940	4006	256	184	275	326	1,041	51	37	55	65	52	
35_39	3940	4003	4392	4646	4527	4279	380	440	443	534	1,797	76	88	89	107	90	
40_44	5239	4320	4443	4835	5180	5080	177	222	283	293	975	35	44	57	59	49	
45_49	5637	5416	4542	4726	5128	5515	346	357	377	427	1,507	69	71	75	85	75	
50_54	5252	5983	5773	4919	5153	5549	302	369	407	433	1,511	60	74	81	87	76	
55_59	5040	5554	6352	6180	5352	5660	196	272	287	256	1,011	39	54	57	51	51	
60_64	5366	5236	5826	6639	6436	5616	311	353	471	565	1,700	62	71	94	113	85	
65_69	5582	5677	5589	6297	7204	7041	0	0	7	74	81	0	0	1	15	4	
70_74	4248	5540	5653	5596	6371	7373	0	0	0	0	0	0	0	0	0	0	
75_79	3714	4073	5388	5508	5467	6214	0	0	0	0	0	0	0	0	0	0	
80_84	3230	3248	3625	4880	5022	5022	336	795	1,177	1,505	3,813	67	159	235	301	191	
85&	3206	3566	4043	4802	6385	7552	60,653	63,153	65,987	68,637	258,430	12,131	12,631	13,197	13,727	12,922	

	t : Housing Needs R		



Applications & Appeals

B Climate Change & Sustainability

Community Engagement

X Daylight & Sunlight

Economics & Regeneration

Environmental Assessment

Expert Evidence

K Graphic Design

Heritage

Property Economics

Q Site Finding & Land Assembly

GIS & Spatial Analytics

Strategy & Appraisal

Urban Design

Cardiff

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