



Nathaniel Lichfield
& Partners
Planning. Design. Economics.

Breckland Demographic Projections

Technical Report

Breckland District Council

September 2013

13559/MS/MT/RC

Nathaniel Lichfield & Partners
14 Regent's Wharf
All Saints Street
London N1 9RL

nlplanning.com

Draft

This document is formatted for double sided printing.

© Nathaniel Lichfield & Partners Ltd 2013. Trading as Nathaniel Lichfield & Partners.

All Rights Reserved.

Registered Office:

14 Regent's Wharf

All Saints Street

London N1 9RL

All plans within this document produced by NLP are based upon Ordnance Survey mapping with the permission of Her Majesty's Stationery Office. © Crown Copyright reserved. Licence number AL50684A

Contents

1.0	Introduction	1
	Approach.....	1
2.0	Modelled Scenarios	3
	Demographic Led.....	3
	Economic Led.....	4
	Supply Led	4
3.0	Assumptions and Inputs	5
	Demographic Inputs.....	5
	Household and Housing Inputs	6
	Economic Inputs	10
	Summary Table of Scenario Assumptions.....	11
4.0	Summary of results	17

Draft

Draft

Figures

Figure 1.1	Components of POPGROUP demographic model	1
Figure 3.1	Trends in Household Formation (Average Household Size) in Breckland (1991-2033)	7
Figure 3.2	Projected Household Headship Rates for Breckland.....	9

Tables

Table 3.1	Past Migration Trends in Breckland	6
Table 3.2	Household typologies	9
Table 3.3	Modelling inputs and assumptions	13
Table 4.1	Summary of modelling outputs 2011 to 2031.....	17

Draft

Draft

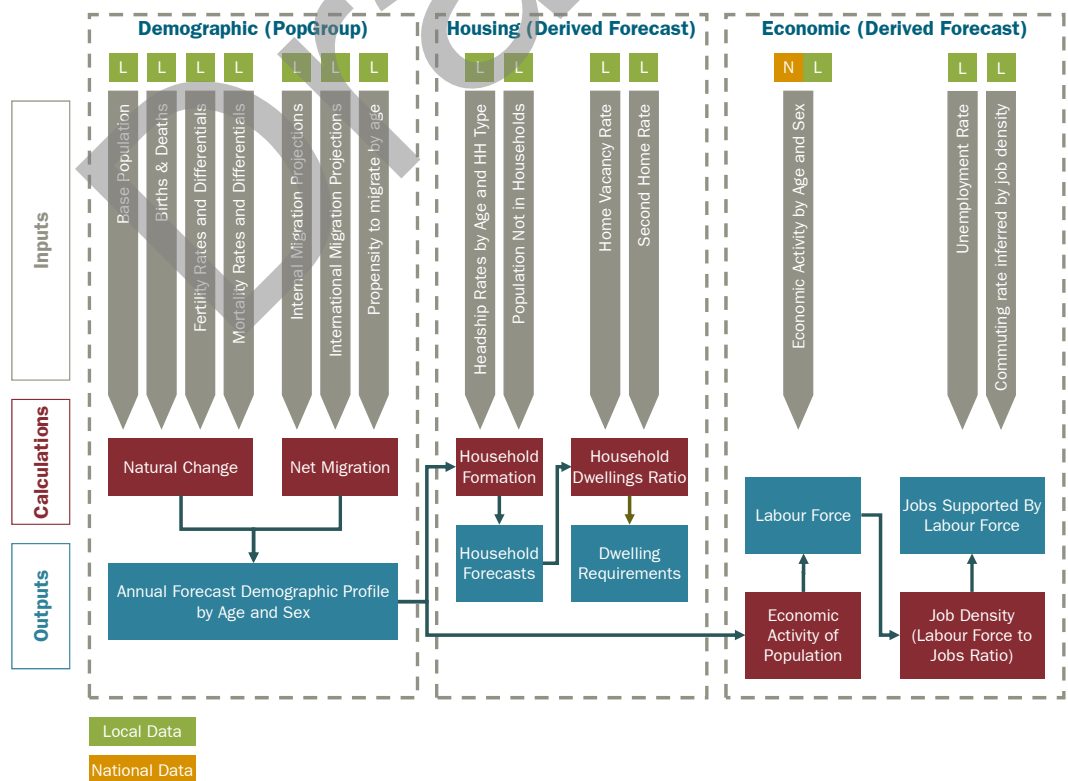
1.0 Introduction

1.1 Nathaniel Lichfield & Partners (NLP) was commissioned by Breckland District Council to undertake modelling of future population change in Breckland District. This technical work is intended to inform other parts of the evidence base for the new Local Plan. A number of different demographic and economic scenarios for Breckland have been tested in order to assess the outcomes for a range of themes, including economic, social and demographic outcomes.

Approach

1.2 NLP has used specialist demographic modelling and forecasting tool POPGROUP to model the future trends in demography associated with the different scales of housing growth under each of the scenarios. POPGROUP is an industry standard demographic modelling software package and is used by Government Agencies, County Councils and Local Authorities across the UK. POPGROUP adopts a standard cohort-component demographic modelling technique. The overarching approach of POPGROUP is illustrated in Figure 1.1 which shows input components, calculations and outputs of the modelling. A full methodology and overview of the mathematical calculations can be viewed within the POPGROUP reference manual.¹

Figure 1.1 Components of POPGROUP demographic model



Source: NLP / POPGROUP

¹ <http://www.ccsr.ac.uk/popgroup/about/manuals.html>

- 1.3 By modelling trend and future change-based scenarios, this report sets out the demographic, housing, economic, and labour force impacts of a range of different scenarios. These are grouped into three different types of scenario, dependent on the starting point for the modelling within each:
- a Demographic led scenarios – based on projections of population change from births, deaths and migration;
 - b Economic led scenarios – based on a projection of what population change is required to meet a given change in the number of jobs, accounting for economic activity, commuting and other applicable factors;
 - c Supply led scenarios – based upon a given level of future housing supply as the starting point, with the demographic change associated with this identified.
- 1.4 The outputs of the assessment are identified for the period 2011 to 2031 for comparison with the end of the Local Plan period for Breckland. Notwithstanding, the outputs are annualised for the period 2011-2031 across many data strands in order for comparison with different data sets.
- 1.5 It is important to note that any demographic modelling is dependent upon the availability of a wide range of existing data sources. Many of the modelled assumptions take account of datasets (particularly those demographically-driven) that are updated annually. It will be important to keep the analysis under review and to take account of emerging information as it arises.

2.0 Modelled Scenarios

2.1 NLP has adopted a number of scenarios based on different, demographic, economic and housing related factors which are outlined below. Consequently the purpose of each scenario is explained below alongside a review of the headline outputs for demographic change, employment and household growth.

- Demographic Factors (Scenarios A-E) - what projections of natural change, migration, and headship rates will mean for future levels of household growth;
- Economic Factors (Scenario F) - what levels of housing are needed to sustain different estimates of employment change; and
- Supply Factors (Scenario G) - what demographic and economic outcomes would ensue for Breckland under this level of housing delivery.

Demographic Led

2.2 The demographic scenarios use components of population change (births, deaths and migration) to project how the future population, their household composition, and consequently their requirements for housing, will shift in the future. It also projects the level of population who will be economically active and will support employment growth.

Scenario A. ONS 2010-based SNPP

2.3 The scenario is predicated upon the rates of projected migration, births and deaths in Breckland District identified within the ONS 2010-based sub-national population projections (SNPP).

Scenario B. 2011 SNPP

2.4 This scenario uses projected assumptions which have been partially updated by ONS to a Census 2011 base; they are based on the 2011-based interim sub-national population projections published on 25 September 2012, the most recent set of Government population projections at the time of writing. These projections only run to 2021, albeit for modeling purposes, beyond that date we have assumed trends in population change will hold constant at the rates projected for 2021.

Scenario C. Long Term Migration Trend

2.5 This scenario is based upon continuation into the future of the average past migration trends observed in Breckland over the longer term. This draws upon ONS estimates of domestic and international migration over the previous 10 years for the District, utilising the revised Mid-Year Estimates Series for 2001 to 2011.

Scenario D. Short Term Migration Trend

- 2.6 This scenario is based upon continuation into the future of the average past migration trends observed in Breckland over the longer term. This draws upon ONS estimates of domestic and international migration over the previous 5 years for the District, utilising the revised Mid-Year Estimates Series for 2001 to 2011.

Scenario E. Nil Migration Trend

- 2.7 This scenario models a situation whereby there is no movement in or out of the District by the current population. This is not necessarily a realistic and reasonable scenario to assume as the basis of future planning, given such a scenario is substantially different to the migratory patterns seen in the District historically. However, it does give a proxy for considering the impacts of purely natural change on the existing population.

Economic Led

- 2.8 The economic-led scenario is based upon an understanding of the relationship between employment and housing. This scenario is demographically modelled using the projected number of jobs as the fixed variable, with the projected migration constrained or inflated to a level which, alongside the profile of migrants moving in and out and natural change within the population, produces a labour force which is sufficient to support a given level of employment growth within the District. This assumes that the current commuting dynamic inferred by the balance of workers and jobs in Breckland (the Labour Force ratio) will either remain static or shift based on the assessed outcomes of the scenarios.

Scenario F. 2013 EEFM Baseline Trend

- 2.9 This scenario sets job growth at the number of jobs within 2013 East of England Forecasting Model Baseline projection produced by Oxford Economics, as adopted in the Breckland Economic Growth Study (2013) produced by NLP. This indicates growth of 3,957 jobs between 2011 and 2031 or 198 jobs per annum.

Supply Led

Scenario G. Past Housing Delivery Trends

- 2.10 This supply-led scenario is demographically modelled and uses the number of houses delivered each year as the fixed variable. It assumes that 593 dwellings are delivered each year in Breckland District, in line with the average delivery over the past 23 years from 1990/91 to 2012/13. The outputs indicate what level of population and job growth could be supported in the District based on this level of housing delivery.

3.0 **Assumptions and Inputs**

3.1 The full list of inputs and assumptions used in the POPGROUP demographic modelling for Breckland District are set out below in Table 3.1 below. These details the data which makes up the inputs for every scenario modelled as part of this technical report. The headship rates utilised in the study are discussed upfront prior to all other inputs, this is a fairly new data release and most importantly to demonstrate how NLP are dealing with the CLG interim 2011-based projections post 2021.

Demographic Inputs

Baseline Population

3.2 The baseline population adopted is for 2011 and is drawn across from the Census 2011 based Mid-Year estimates as the most up to date population data. This 2011 population is split by single year of age and gender.

Fertility Rates

3.3 Fertility rates are applied to the population forecast using projected fertility rates and differentials for Breckland District from the ONS 2010-based Sub-National Population Projections (SNPP). These are the same fertility rates as used to also underpin the ONS 2011-based Interim SNPP.

Mortality Rates

3.4 A mortality rate is applied to the population forecast using projected mortality rates and differentials for Breckland District from the ONS 2010-based Sub-National Population Projections (SNPP). These are the same mortality rates as used to also underpin the ONS 2011-based Interim SNPP.

Internal and International Migration

3.5 Gross domestic in and out migration flows and gross international in and out migration flows are variables that are different under each scenario. For the demographic-led scenarios (A, B C, D and E) these are set at the level defined by the parameters of the scenario (e.g. using past trends, or using ONS projections). Table 3.1 shows past trends in migration for Breckland District Council.

Table 3.1 Past Migration Trends in Breckland

	10 Year Average 01/02 to 10/11	5 Year average 06/07 to 10/11
Domestic Migration In	+6,201	+6,075
Domestic Migration Out	-5,379	-5,464
Net Domestic Migration	+822	+612
International Migration In	+730	+857
International Migration Out	-398	-441
Net International Migration	+332	+415
Overall Net Migration	+1,154	+1,027

Source: ONS mid-year estimates, revised following Census 2011

- 3.6 For the economic-led and supply-led scenarios, migration flows are an outcome, rather than input, of the scenario; therefore derived by the starting point under each scenario (e.g. how much migration would be accommodated within the dwellings identified in Scenario G, and how much migration would be necessary to underpin the economic and employment growth under Scenario F).
- 3.7 The profile of migration is based on projected migration rates and differentials for Breckland District (i.e. the propensity for different sex/age groups to move to or from the District) from the ONS 2010-based Sub-National Population Projections (SNPP).

Household and Housing Inputs

Household Formation (Headship) Rates

- 3.8 The CLG 2011-based interim household projections provide estimates of future household growth in Breckland, averaging 681 households per annum over the period 2011 to 2021. The household formation rates within this projection are applied to the projected population in Breckland under the different scenarios tested to arrive at an estimate of likely growth in households at the local level. Such household formation rates fully account for trends in age specific household composition (e.g. accounting for people in different life stages), rather than simply applying an average dwelling occupancy rate to the population.
- 3.9 Past trends in overall household formation in Breckland show a trend towards higher rates of formation and smaller household sizes up until 2001. However, more recent trends between 2001 and 2011 highlight a broadly static formation rate whereby average household size has very marginally started to increase. The change in household formation and average household size between 2001 and 2011 is mirrored at the regional level whereby the household size and formation have largely remained static since 2001, rather than continuing long term trends in decreasing household size.
- 3.10 Recent household formation rates between 2001 and 2011 are likely to reflect recent constraints on housing availability and affordability (both through supply-

side factors such as house building and demand-side factors such as mortgage availability and household incomes). This will have placed constraints on new households forming in the same manner as observed in previous trends, potentially leading to higher rates of concealed households, higher rates of household sharing and factors such as young adults staying at their parental home for much longer than has been seen historically.

- 3.11 The 2011-based projections expect this static formation rate to revert back to increasing formation between 2011 and 2021. The previous 2008-based household projections projected forward the trends seen in Breckland pre-2001. In essence change in household formation under the 2011-based projections is projected to decrease from the rates in the 2008-based projections; this is illustrated in Figure 3.1.

Figure 3.1 Trends in Household Formation (Average Household Size) in Breckland (1991-2033)



Source: Census 2001, Census 2011 and ONS/CLG Population and Household Estimates and Projections

- 3.12 NLP has considered which rates of household formation are appropriate for testing beyond 2021. Given long term trends, and the way the recession has impacted upon household formation, it is anticipated that formation rates will begin to increase again in the future reflecting change in line with long term trends. Over a longer period it is likely household formation will begin to 'pick up' again, particularly as the wider economy returns to growth, peoples' circumstances improve, household incomes increase and there is better access to mortgage finance. Such factors will improve peoples' confidence and ability to form a new household. Notwithstanding, this increase in household formation will potentially not be to the same degree as previously assumed in the 2008-based projections.

- 3.13 The Cambridge Centre for Housing & Planning Research (CCHPR – the academics and demographic experts behind the collaborative “What homes

Where” toolkit?) have expressed the view that formation rates would be expected to rise as a result of economic growth in the short term, and that therefore there is merit in not following the CLG projections all the way to 2021.^{3 4} Instead, they consider that economic growth before 2021 would result in pent-up demand being realised and new household formation occurring and on this basis suggest that, for the purposes of assessing housing needs, CLG 2011-based interim headship rates should only be followed to 2015 but then should deviate to an accelerated rate for a 10 year ‘catch up’ period, before rates settling down to a level that follows historic patterns.

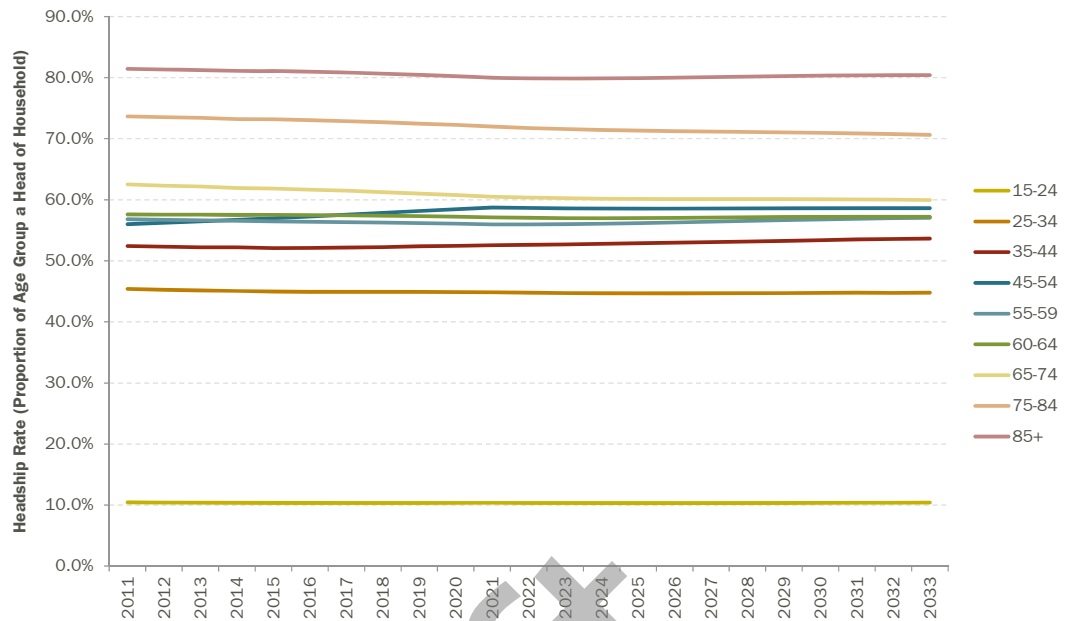
- 3.14 NLP has utilised a projection which indexes formation against the 2008 projections to 2033. The household formation rates within this projection are applied to the projected population in Breckland to arrive at an estimate of likely growth in households at the local level.
- 3.15 On the above basis, as a baseline position, NLP has assumed that beyond 2021, the rate of change in household formation for Breckland will again move in line with the rate of change assumed for that period within the 2008-based household projection. This essentially indexes post-2021 change to the 2008 projections on the assumption that household formation will increase in line with long term trends.
- 3.16 The projected household formation rates adopted are illustrated for individual age cohorts in Figure 3.2 showing trends up to and post-2021 on the basis set out above.

² www.howmanyhomes.org/ backed by LGA, RTPI, RICS, CIH, POS, HBF among others

³ ‘Options for Updating Household Projections and a Review of Employment-led Projections’ – Report to the Joint Core Strategy for Cheltenham Borough Council, Gloucester City Council and Tewkesbury Borough Council (May 2013), Cambridge Centre for Housing & Planning Research (CCHPR).

⁴ ‘The new Household Projections and their implications for West Northamptonshire’ (May 2013), Cambridge Centre for Housing & Planning Research (CCHPR).

Figure 3.2 Projected Household Headship Rates for Breckland



Source: CLG 2011-based Interim Household Projections, NLP

3.17

As well as being broken down into age groupings, the headship rates utilised are also split into different household types within the demographic modelling. This uses standard ONS household typologies, as set out within Table 3.2, with a breakdown of projected households types provided to Breckland District Council within the detailed modelling outputs.

Table 3.2 Household typologies

Code	Household Typology
OPMAL	One person households: Male
OPFEM	One person households: Female
FAM C0	One family and no others: Couple: No dependent children
FAM C1	One family and no others: Couple: 1 dependent child
FAM C2	One family and no others: Couple: 2 dependent children
FAM C3	One family and no others: Couple: 3+ dependent children
FAM L1	One family and no others: Lone parent: 1 dependent child
FAM L2	One family and no others: Lone parent: 2 dependent children
FAM L3	One family and no others: Lone parent: 3+ dependent child
MIX C0	A couple and one or more other adults: No dependent children
MIX C1	A couple and one or more other adults: 1 dependent child
MIX C2	A couple and one or more other adults: 2 dependent children
MIX C3	A couple and one or more other adults: 3+ dependent children
MIX L1	A lone parent and one or more other adults: 1 dependent child
MIX L2	A lone parent and one or more other adults: 2 dependent children
MIX L3	A lone parent and one or more other adults: 3+ dependent children
OTHHH	Other households

Source: ONS

Population Not In Households

- 3.18 The number of population not in households (e.g. those in institutional care) is taken from the assumptions used to underpin the CLG 2011-based Interim Household Projections. No change is assumed in the rate of this from the CLG identified rate.

Vacancy/Second Home Rate

- 3.19 A vacancy and second homes rate is applied to the number of households, representing the natural vacancies/not permanently occupied homes which occur within the housing market and mean that more dwellings than households are required to meet needs. The vacancy rate in Breckland District totals 2.94% (estimated using Council Tax Base Vacant Dwellings Data over the previous 3 years). The second home rate in Breckland District is estimated at 0.78% (Council Tax Base using average second homes data over the previous 3 years), meaning a combined rate of 3.72% for Breckland District. This is relatively low and therefore is held constant over the forecast period.

Economic Inputs

Economic Activity Rate

- 3.20 Age and gender specific projections of economic activity rates are used. The basis for this is the ONS 2006-based National Labour Force Projections, which are used in combination with data from the Census 2001, up-to-date ONS data from the Annual Population Survey and jobs data from the EEFM.
- 3.21 The economic activity annual growth rates for each age cohort from the ONS 2006-based national projections are applied to the Census 2001 economic activity profile for Breckland District across the forecast period. At 2011 these have been rebased from their 2011 estimate using a uniform adjustment to all age cohorts to meet current total economic activity set out within the Annual Population Survey (APS). These projected changes in age specific economic activity rates are assumed to remain the same as the national projections with the exception of an adjustment to take account of changing pension ages beyond that already taken into account in the ONS 2006-based projections (i.e. to account for pension age increases for both men and women above age 65).

Labour Force Ratio / Commuting Rate

- 3.22 The commuting rate for the modelling is derived from a 'Labour Force Ratio' taking account of the relationship between workers resident in the District and jobs based in the District. This is worked out using the formula: (A) Number of employed workers living in area ÷ (B) Number of workers who work in the area (number of jobs). In Breckland District data from ONS Employment Estimates and the Annual Population Survey identifies an LF ratio of 1.50 for 2011 (63,200 employed people living in Breckland District ÷ 42,200 jobs within Breckland District), inferring many people commute out of the district for work.

- 3.23 This ratio has not been flexed over the forecasting period and as such it assumes that the relationship between resident workers and jobs in the District will remain proportionally the same to one another in the future.

Unemployment

- 3.24 An unemployment rate is assumed and applied to the economically active population within the District. The unemployment rate adopted uses the ILO base definition and utilises data from the ONS Annual Population Survey which provides estimates of economically active people not in employment. This is estimated at 6.93% for Breckland District using a blended average for the period 2011/2012.
- 3.25 Pre-recession the Annual Population Survey estimated an average unemployment rate of 3.85% for the period 2004 to end of 2007 in Breckland District, and is a rate which could be seen again, particularly in the context of consistently low levels of claimant unemployment within the District. For the purposes of modelling, it is assumed that unemployment will fall from the 6.93% in 2011 to the long term average of 3.85% by 2016 as the country and District experiences economic growth following the recession.

Summary Table of Scenario Assumptions

- 3.26 These inputs and assumptions are brought together into a summary setting out individual assumptions adopted across each scenario within Table 3.3.

Draft

Table 3.3 Modelling inputs and assumptions

Component	Scenario A: Demographic-led (2010-based)	Scenario B: Demographic-led (2011- based)	Scenario C, D & E: Demographic-led (migration trend/zero migration)	Scenarios F: Economic-led	Scenario G: Housing led
Population					
Baseline Population	A 2011 baseline population is taken from the Census 2011-based Mid-Year Population Estimates data. This 2011 population is split by single year of age and gender.				
Births	Fertility Rates are applied to the population forecast using projected Fertility Rates and differentials for Breckland District from the ONS 2010-based Sub-National Population Projections (SNPP).	Fertility Rates are applied to the population forecast using projected Fertility Rates and differentials for Breckland District from the ONS 2010-based/2011-based Sub-National Population Projections (SNPP).	Fertility Rates are applied to the population forecast using projected Fertility Rates and differentials for Breckland District from the ONS 2010-based Sub-National Population Projections (SNPP).		
Deaths	A mortality rate is applied to the population forecast using projected Mortality Rates and differentials for Breckland District from the ONS 2010-based Sub-National Population Projections (SNPP).	A mortality rate is applied to the population forecast using projected Mortality Rates and differentials for Breckland District from the ONS 2010-based/2011-based Sub-National Population Projections (SNPP).	A mortality rate is applied to the population forecast using projected Mortality Rates and differentials for Breckland District from the ONS 2010-based Sub-National Population Projections (SNPP).		

Component	Scenario A: Demographic-led (2010-based)	Scenario B: Demographic-led (2011- based)	Scenario C, D & E: Demographic-led (migration trend/zero migration)	Scenarios F: Economic-led	Scenario G: Housing led
Internal Migration	Gross domestic in and out migration flows are adopted based on forecast migration in Breckland District from the ONS 2010-based SNPP for 2011 to 2033.	Gross domestic in and out migration flows are adopted based on forecast migration in Breckland District from the ONS 2011-based SNPP for 2011 to 2031. Beyond a trend rate is applied.	Gross domestic in and out migration flows are adopted based on average gross past trends (for trend scenario) or constrained to zero for the zero migration scenario.	Internal in-migration and out-migration is flexed (inflated or deflated) to achieve the necessary number of economically active people to underpin the economy in the District in the employment scenario.	Internal in-migration and out-migration is flexed (inflated or deflated) to achieve the necessary number of people and households to underpin the quantity of housing in the District in the housing scenario.
International Migration	As above but for international flows.	As above but for international flows.	As above but for international flows.	As above but for international flows.	As above +but for international flows.
Propensity to Migrate (Age Specific Migration Rates)	Age Specific Migration Rates (ASMigR) for both in and out domestic migration are based upon the age profile of migrants to and from Breckland District in the 2010-based SNPP. These identify a migration rate for each age cohort within the District (for both in and out flows separately) which is applied to each individual age providing an Age Specific Migration Rate. This then drives the demographic profile of those people moving into and out of the District (but not the total numbers of migrants).				
Housing					
Headship Rates	Headship rates that are specific to Breckland District and forecast over the period to 2021 are taken from the government data which was used to underpin the 2011-based CLG household forecasts and applied to the demographic forecasts for each year as output by the POPGROUP model. These headship rates are split by age cohort and by household typology. These are the most up-to-date headship rates available at the time of writing. Beyond 2021 this is assumed to resume the long term trends identified within the 2008-based household projections with index trends from the 2008-based projections applied to the 2021 end point of the 2011-based household projections.				
Population Not in Households	The number of population not in households (e.g. those in institutional care) is similarly taken from the assumptions used to underpin the 2011-based CLG household forecasts. No change is assumed in the rate of this from the CLG identified rate.				

Component	Scenario A: Demographic-led (2010-based)	Scenario B: Demographic-led (2011- based)	Scenario C, D & E: Demographic-led (migration trend/zero migration)	Scenarios F: Economic-led	Scenario G: Housing led
Vacancy / 2 nd Home Rate	A vacancy and second homes rate is applied to the number of households, representing the natural vacancies/not permanently occupied homes which occur within the housing market and mean that more dwellings than households are required to meet needs. The vacancy rate in Breckland District totals 2.94% (estimated using Council Tax Base Vacant Dwellings Data over the previous 3 years). The second home rate in Breckland District is estimated at 0.78% (Council Tax Base using average second homes data over the previous 3 years), meaning a combined rate of 3.72% for Breckland District. This is relatively low and therefore is held constant over the forecast period.				
Economic					
Economic Activity Rate	Age and gender specific economic activity rates are used. The basis for this is ONS 2006-based National Labour Force Projections. The economic activity annual growth rates for each age cohort from these national projections are applied to the Census 2001 economic activity profile for Breckland District across the forecast period. At 2011 these have been rebased from their 2011 estimate using a uniform adjustment to all age cohorts to meet current total economic activity in the District from the Annual Population Survey (APS). These are assumed to remain the same as the projection with the exception of an adjustment to take account of changing pension ages beyond that already taken into account in the ONS 2006-based projections (i.e. to account for pension age increases for both men and women above age 65).				
Commuting Rate	A standard net commuting rate is inferred through the modelling using a Labour Force ratio which is worked out using the formula: (A) Number of employed workers living in area ÷ (B) Number of workers who work in the area (number of jobs). In Breckland District data from ONS Employment Estimates and the Annual Population Survey identifies an LF ratio of 1.50 for 2011 (63,200 employed people living in Breckland District ÷ 42,200 jobs within Breckland District). This has not been flexed over the forecasting period.				
Unemployment	The unemployment rate uses an ILO base definition using data from the ONS Annual Population Survey estimate of economically active people not in employment. This is estimated at 6.93% currently, but is assumed to reduce over the next 5 years to the pre-recession average of 3.85%.				

Source: NLP

Draft

4.0

Summary of results

4.1

Table 4.1 below summarises the outputs of the POPGROUP demographic modelling for the above scenarios.

Table 4.1 Summary of modelling outputs 2011 to 2031

Scenario:	Demographic Led					Economic Led	Supply Led
	Scenario A: 2010 SNPP	Scenario B: 2011 SNPP	Scenario C: Long Term Migration (10yr. trend)	Scenario D: Short Term Migration (5 yr. trend)	Scenario E: Nil Migration	Scenario F: Baseline EEFM Scenario	Scenario G: Past housing delivery average
Pop. Change	+23,016	+24,365	+21,789	+19,036	+1,110	+21,038	+18,949
of which Natural Change	-3,369	+900	-1,291	-1,504	+1,110	-1,736	-2,106
of which Net Migration	+26,385	+23,465	+23,080	+20,540	0	+22,774	+21,055
Household Change	+13,243	+13,454	+12,205	+11,211	+1,318	+12,206	+11,420
Dwelling Change	+13,754	+13,974	+12,677	+11,645	+1,369	+12,677	+11,861
Dwellings p.a.	+688	+699	+634	+582	+68	+634	+593
Labour Force	+5,867	+4,309	+4,540	+3,457	-4,394	+4,142	+3,223
Jobs	+5,058	+4,059	+4,207	+3,513	-1,520	+3,952	+3,363
Jobs p.a.	+253	+203	+210	+176	-76	+198	+168

Source: NLP analysis using PopGroup

4.2

Summary outputs for each scenario are contained within Appendix 1 of this technical report. More detailed outputs, including demographic forecasts by single year of age and household projections by type, have been provided to Breckland District Council, as part of this assessment, within an Excel databook.

Draft

Appendix 1 Scenario Output Summaries

Draft

Draft

Scenario A: 2010 based SNPP

Population Estimates and Forecasts		Nathaniel Lichfield & Partners																						
Components of Population Change		Breckland District																						
Year beginning July 1st																								
		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	
Births																								
Male	739	751	759	756	749	747	742	739	736	731	727	722	716	710	705	701	699	699	699	701	704	704	708	
Female	704	716	723	720	713	711	707	704	701	697	692	687	682	676	671	667	666	665	666	668	671	671	674	
All Births	1,443	1,467	1,481	1,476	1,462	1,458	1,450	1,443	1,436	1,428	1,419	1,409	1,398	1,387	1,376	1,368	1,364	1,364	1,366	1,369	1,375	1,382		
TFR	2.06	2.07	2.07	2.05	2.01	1.99	1.98	1.97	1.97	1.97	1.96	1.96	1.97	1.97	1.97	1.96	1.96	1.97	1.97	1.98	1.99	1.99		
Births input	
Deaths																								
Male	698	706	702	714	723	733	743	752	766	775	789	804	819	834	849	866	883	900	916	934	952	971		
Female	737	729	741	746	745	747	751	758	764	771	780	790	801	810	823	837	851	865	881	899	916	933		
All deaths	1,435	1,435	1,443	1,461	1,469	1,480	1,493	1,511	1,530	1,547	1,569	1,594	1,619	1,644	1,672	1,702	1,733	1,765	1,798	1,833	1,868	1,905		
SMR: male	99.7	98.0	94.6	93.6	92.0	90.6	89.0	87.4	86.3	84.7	83.5	82.6	81.5	80.5	79.5	78.6	77.8	77.0	76.2	75.6	75.0	74.5		
SMR: fema	100.2	96.4	95.2	93.4	90.9	88.8	86.8	85.1	83.5	81.7	80.1	78.5	77.2	75.8	74.6	73.5	72.3	71.2	70.4	69.7	69.0	68.3		
SMR: male	99.9	97.1	94.9	93.5	91.4	89.7	87.9	86.3	84.8	83.2	81.8	80.5	79.3	78.1	77.0	76.0	75.0	74.0	73.3	72.6	71.9	71.3		
Expectation	81.7	81.8	82.0	82.2	82.3	82.4	82.6	82.7	82.9	83.0	83.1	83.2	83.3	83.4	83.5	83.7	83.8	83.9	84.0	84.1	84.1	84.2		
Deaths inp	
In-migration from the UK																								
Male	3,069	3,100	3,130	3,158	3,185	3,208	3,232	3,255	3,279	3,300	3,322	3,343	3,363	3,386	3,409	3,430	3,451	3,475	3,498	3,520	3,544	3,568		
Female	3,294	3,322	3,351	3,378	3,401	3,424	3,445	3,464	3,483	3,501	3,518	3,535	3,554	3,575	3,597	3,620	3,645	3,671	3,698	3,725	3,754	3,783		
All	6,362	6,422	6,481	6,536	6,586	6,632	6,677	6,719	6,762	6,802	6,841	6,878	6,917	6,961	7,006	7,050	7,096	7,146	7,197	7,246	7,298	7,351		
SMgR: ma	47.4	47.5	47.6	47.6	47.7	47.9	48.1	48.4	48.7	49.0	49.3	49.5	49.7	49.9	50.1	50.1	50.1	50.2	50.2	50.2	50.2	50.3		
SMgR: fem	51.9	52.0	52.2	52.3	52.5	52.7	53.0	53.3	53.6	54.0	54.4	54.6	54.8	54.9	54.9	54.9	54.8	54.8	54.7	54.7	54.7	54.7		
Migrants in	
Out-migration to the UK																								
Male	2,692	2,719	2,745	2,768	2,789	2,804	2,819	2,829	2,832	2,839	2,857	2,878	2,896	2,906	2,920	2,940	2,955	2,975	2,991	3,009	3,027	3,045		
Female	2,922	2,948	2,954	2,970	2,991	2,996	3,006	3,011	3,012	3,018	3,020	3,035	3,046	3,060	3,079	3,101	3,118	3,133	3,151	3,177	3,199	3,223		
All	5,615	5,667	5,699	5,738	5,780	5,800	5,825	5,840	5,844	5,856	5,876	5,914	5,942	5,966	5,998	6,041	6,073	6,108	6,142	6,185	6,226	6,267		
SMgR: ma	41.6	41.6	41.7	41.7	41.8	41.9	41.9	42.0	42.1	42.1	42.4	42.6	42.8	42.9	42.9	43.0	42.9	42.9	42.9	42.9	42.9	42.9		
SMgR: fem	46.0	46.2	46.0	46.0	46.1	46.1	46.2	46.3	46.4	46.6	46.7	46.9	47.0	47.0	47.0	47.0	46.9	46.8	46.6	46.7	46.6	46.6		
Migrants in	
In-migration from Overseas																								
Male	497	499	500	501	501	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500		
Female	409	410	411	412	412	412	412	412	412	412	412	412	412	412	412	412	412	412	412	412	412	412		
All	906	909	911	913	913	912	912	912	912	912	912	912	912	912	912	912	912	912	912	912	912	912		
SMgR: ma	112.5	111.8	111.3	110.9	110.5	110.1	109.9	110.0	110.2	110.4	110.8	111.2	111.6	112.0	112.1	111.9	111.7	111.2	110.5	109.8	109.0	108.2		
SMgR: fem	98.1	97.8	97.5	97.3	97.0	96.9	96.9	97.0	97.2	97.6	98.1	98.6	99.1	99.5	99.7	99.8	99.7	99.2	98.7	98.0	97.3	96.6		
Migrants in	
Out-migration to Overseas																								
Male	267	271	274	278	283	287	287	287	287	287	287	287	287	287	287	287	287	287	287	287	287	287		
Female	214	217	221	224	227	231	231	231	231	231	231	231	231	231	231	231	231	231	231	231	231	231		
All	481	488	495	502	510	518	518	518	518	518	518	518	518	518	518	518	518	518	518	518	518	518		
SMgR: ma	60.4	60.7	61.1	61.6	62.4	63.2	63.1	63.1	63.2	63.4	63.6	63.8	64.1	64.3	64.3	64.2	64.1	63.8	63.4	63.0	62.6	62.1		
SMgR: fem	51.4	51.8	52.3	52.8	53.6	54.4	54.4	54.5	54.6	54.8	55.1	55.4	55.7	55.9	56.0	56.1	56.0	55.7	55.4	55.1	54.7	54.3		
Migrants in	
Migration - Net Flows																								
UK	+747	+755	+782	+798	+807	+832	+852	+879	+917	+946	+964	+965	+976	+995	+1,007	+1,009	+1,023	+1,038	+1,054	+1,060	+1,072	+1,084		
Overseas	+425	+421	+416	+411	+403	+394	+394	+394	+394	+394	+394	+394	+394	+394	+394	+394	+394	+394	+394	+394	+394	+394		
Summary of population change																								
Natural ch	+7	+32	+39	+16	-6	-22	-44	-68	-94	-119	-150	-185	-222	-258	-296	-334	-369	-401	-432	-464	-494	-523		
Net migrat	+1,172	+1,176	+1,198	+1,209	+1,209	+1,225	+1,245	+1,272	+1,311	+1,339	+1,358	+1,358	+1,369	+1,389	+1,401	+1,403	+1,417	+1,431	+1,448	+1,454	+1,465	+1,477		
Net chang	+1,180	+1,208	+1,237	+1,225	+1,203	+1,203	+1,201	+1,204	+1,217	+1,221	+1,208	+1,173	+1,148	+1,131	+1,105	+1,069	+1,048	+1,031	+1,016	+990	+971	+955		
Summary of Population estimates/forecasts																								
Population at mid-year																								
		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
0-4	7,428	7,524	7,592	7,632	7,630	7,644	7,664	7,650	7,613	7,574	7,542	7,502	7,467	7,424	7,376	7,327	7,277	7,234	7,201	7,180	7,174	7,181	7,199	
5-10	7,896	8,051	8,322	8,637	8,956	9,207	9,336	9,466	9,557	9,600	9,591	9,605	9,621	9,603	9,562	9,518	9,479	9,434	9,387	9,336	9,280	9,223	9,170	
11-15	7,649	7,329	7,058	6,818	6,651	6,595	6,736	6,963	7,243	7,530	7,818	7,961	8,069	8,148	8,199	8,206	8,227	8,253	8,242	8,208	8,171	8,141	8,107	
16-17	3,216	3,262	3,214	3,081	3,022	2,919	2,771	2,636	2,582	2,628	2,712	2,871	3,013	3,097	3,202	3,290	3,302	3,268	3,289	3,335	3,349	3,331	3,314	
18-59Fem	71,340	71,549	71,804	72,271	72,746	73,129	73,498	73,825	73,972	74,194	74,334	74,386	74,530	74,613	74,720	74,718	74,852	74,954	74,978	75,044	75,083	75,323	75,611	
60:65 -74	20,053	20,630	21,142	21,574	21,871	22,253	22,520	22,668	22,799	22,775	22,808	22,556	22,419	22,641	23,033	23,629	24,199	24,776	25,393	26,087	26,703	27,061	27,422	
75-84	9,524	9,809	10,090	10,324	10,515	10,675	10,917	11,254	11,698	12,175	12,691	13,521	14,179	14,692	15,020	15,323	15,476	15,612	15,658	15,540	15,510	15,236	15,040	
85+	3,903	4,034	4,177	4,296	4,469	4,639	4,822	5,004	5,206	5,411	5,614	5,909	6,191	6,418	6,654	6,862	7,129	7,458	7,871	8,304	8,755	9,500	10,088	
Total	131,009	132,189	133,397	134,633	135,859	137,062	138,265	139,466	140,670	141,888	143,108	144,316	145,489	146,636	147,767	148,872	149,941	150,989	152,019	153,035	154,025	154,996	155,951	
Population impact of constraint																								
Number of persons																								
Households																								
Number of	54,715	55,444	56,140	56,866	57,572	58,268	58,958	59,619	60,289	60,948	61,632	62,272	62,901	63,553	64,218	64,857	65,470	66,087	66,695	67,306	67,958	68,562	69,156	
Change over previous	+728	+696	+726	+706	+696	+690	+661	+671	+659	+684	+640	+629	+651	+665	+640	+613	+617	+608	+611	+652	+604	+593		
Number of	56,829	57,586	58,309	59,063	59,796	60,519	61,236	61,922	62,619	63,303	64,013	64,678	65,332	66,008	66,699	67,								

Scenario B: 2011-based SNPP

Population Estimates and Forecasts											Nathaniel Lichfield & Partners												
Components of Population Change											Breckland District												
Year beginning July 1st																							
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	
Births																							
Male	768	820	820	820	768	768	768	768	768	768	768	768	768	768	768	768	768	768	768	768	768	768	
Female	732	780	780	780	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	
All Births	1,500	1,600	1,600	1,600	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	
TFR	2.14	2.27	2.26	2.25	2.10	2.10	2.10	2.10	2.11	2.12	2.13	2.15	2.17	2.19	2.21	2.22	2.24	2.25	2.26	2.26	2.26	2.25	
Births input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Deaths																							
Male	678	683	673	677	681	686	738	740	744	746	748	752	755	758	760	762	764	766	767	768	770	771	
Female	722	717	727	723	719	714	762	760	756	754	752	748	745	742	740	738	736	734	733	732	730	729	
All deaths	1,400	1,400	1,400	1,400	1,400	1,400	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	
SMR: male	96.7	94.3	89.9	87.3	85.0	82.6	85.8	83.1	80.8	78.2	75.9	73.6	71.3	69.1	66.8	64.5	62.3	60.1	58.0	55.9	54.0	52.1	
SMR: fema	98.2	94.1	92.4	89.3	86.3	83.6	86.7	84.0	81.1	78.5	75.8	72.9	70.3	67.5	64.9	62.4	59.8	57.3	55.0	52.8	50.6	48.4	
SMR: male	97.5	94.2	91.2	88.4	85.7	83.1	86.2	83.5	81.0	78.4	75.9	73.3	70.8	68.3	65.9	63.5	61.0	58.7	56.5	54.3	52.3	50.2	
Expectation	81.7	81.9	82.2	82.4	82.6	82.9	82.6	82.8	83.0	83.3	83.5	83.7	83.9	84.2	84.4	84.6	84.9	85.1	85.3	85.6	85.8	86.0	
Deaths inp	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
In-migration from the UK																							
Male	3,097	3,082	3,115	3,165	3,194	3,219	3,246	3,276	3,281	3,287	3,277	3,281	3,286	3,289	3,290	3,288	3,287	3,287	3,283	3,280	3,277	3,273	
Female	3,403	3,382	3,412	3,453	3,474	3,499	3,521	3,544	3,542	3,539	3,523	3,519	3,514	3,511	3,510	3,512	3,513	3,513	3,517	3,520	3,523	3,527	
All	6,500	6,464	6,527	6,618	6,668	6,718	6,767	6,820	6,823	6,826	6,800	6,800	6,800	6,800	6,800	6,800	6,800	6,800	6,800	6,800	6,800	6,800	
SMGr: ma	47.8	47.2	47.3	47.7	47.9	48.0	48.2	48.6	48.6	48.6	48.3	48.4	48.3	48.3	48.1	47.9	47.6	47.3	47.0	46.6	46.2	45.7	
SMGr: fem	53.6	53.0	53.3	53.7	53.9	54.3	54.5	54.9	54.9	54.9	54.6	54.5	54.3	54.0	53.7	53.3	52.9	52.5	52.0	51.5	51.0	50.6	
Migrants in	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Out-migration to the UK																							
Male	2,739	2,758	2,789	2,793	2,775	2,809	2,791	2,817	2,820	2,826	2,846	2,849	2,850	2,847	2,851	2,852	2,848	2,848	2,846	2,842	2,840	2,835	
Female	3,061	3,078	3,084	3,089	3,057	3,073	3,042	3,063	3,056	3,048	3,054	3,051	3,050	3,053	3,049	3,048	3,052	3,052	3,054	3,058	3,060	3,065	
All	5,800	5,836	5,873	5,882	5,832	5,882	5,833	5,880	5,877	5,874	5,900	5,900	5,900	5,900	5,900	5,900	5,900	5,900	5,900	5,900	5,900	5,900	
SMGr: ma	42.3	42.2	42.4	42.4	41.6	41.9	41.5	41.8	41.7	41.8	42.0	42.0	41.9	41.8	41.7	41.5	41.3	41.0	40.7	40.4	40.0	39.6	
SMGr: fem	48.2	48.2	48.2	48.0	47.5	47.6	47.1	47.4	47.3	47.2	47.3	47.2	47.1	46.9	46.6	46.3	46.0	45.6	45.2	44.8	44.3	43.9	
Migrants in	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
In-migration from Overseas																							
Male	486	486	487	486	486	486	486	486	486	487	487	486	486	486	485	485	485	485	485	485	485	485	
Female	414	414	413	414	414	414	414	414	414	413	413	414	414	414	415	415	415	415	415	415	415	415	
All	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	900	
SMGr: ma	109.9	108.1	108.5	108.0	107.6	107.3	107.1	107.0	107.1	107.2	107.3	107.7	108.1	108.5	108.6	108.7	108.6	108.2	107.7	107.1	106.4	105.7	
SMGr: fem	99.3	98.9	98.5	98.3	98.4	98.5	98.5	98.7	98.9	99.2	99.6	100.1	100.7	101.1	101.5	101.6	101.5	101.3	100.8	100.1	99.3	98.5	
Migrants in	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Out-migration to Overseas																							
Male	274	274	273	278	278	278	278	278	278	279	279	279	279	279	279	279	279	279	279	279	279	279	
Female	226	226	227	272	272	272	272	272	272	271	271	271	271	271	271	271	271	271	271	271	271	271	
All	500	500	500	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	
SMGr: ma	61.9	61.4	61.0	72.8	72.6	72.4	72.3	72.2	72.3	72.4	72.5	72.8	73.1	73.4	73.5	73.5	73.4	73.2	72.9	72.5	72.0	71.5	
SMGr: fem	54.2	54.1	54.0	64.7	64.7	64.7	64.8	64.9	65.1	65.3	65.7	66.0	66.3	66.5	66.6	66.6	66.6	66.3	66.0	65.6	65.1	64.6	
Migrants in	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Migration - Net Flows																							
UK	+700	+628	+654	+736	+837	+837	+935	+940	+947	+952	+900	+900	+900	+900	+900	+900	+900	+900	+900	+900	+900	+900	
Overseas	+400	+400	+400	+300	+300	+300	+300	+300	+300	+300	+300	+300	+300	+300	+300	+300	+300	+300	+300	+300	+300	+300	
Summary of population change																							
Natural ch	+100	+200	+200	+200	+100	+100	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	+0	
Net migrat	+1,100	+1,028	+1,054	+1,036	+1,137	+1,137	+1,235	+1,240	+1,247	+1,252	+1,200	+1,200	+1,200	+1,200	+1,200	+1,200	+1,200	+1,200	+1,200	+1,200	+1,200	+1,200	
Net chang	+1,200	+1,228	+1,254	+1,236	+1,237	+1,237	+1,235	+1,240	+1,247	+1,252	+1,200	+1,200	+1,200	+1,200	+1,200	+1,200	+1,200	+1,200	+1,200	+1,200	+1,200	+1,200	
Summary of Population estimates/forecasts																							
Population at mid-year																							
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
0-4	7,428	7,599	7,747	7,877	7,971	8,066	8,067	8,025	7,956	7,881	7,810	7,780	7,769	7,773	7,795	7,832	7,835	7,837	7,837	7,835	7,834	7,832	7,829
5-10	7,896	8,050	8,320	8,623	8,912	9,147	9,362	9,575	9,746	9,886	9,983	10,076	10,060	10,002	9,916	9,825	9,786	9,759	9,750	9,755	9,778	9,816	9,818
11-15	7,649	7,333	7,062	6,827	6,670	6,617	6,743	6,959	7,230	7,476	7,717	7,858	8,053	8,218	8,376	8,495	8,601	8,603	8,556	8,484	8,405	8,328	8,299
16-17	3,216	3,246	3,195	3,069	3,005	2,910	2,773	2,645	2,592	2,643	2,721	2,851	2,984	3,080	3,158	3,207	3,233	3,322	3,343	3,483	3,484	3,455	3,426
18-59Fem	71,340	71,444	71,585	71,918	72,264	72,553	72,838	73,087	73,195	73,355	73,452	73,422	73,432	73,404	73,373	73,265	73,236	73,171	73,067	73,083	73,084	73,226	73,432
60/65-74	20,053	20,641	21,162	21,609	21,930	22,328	22,610	22,774	22,908	22,926	22,993	22,699	22,584	22,776	23,142	23,682	24,216	24,758	25,317	25,943	26,507	26,872	27,177
75-84	9,524	9,817	10,107	10,351	10,549	10,714	10,965	11,319	11,771	12,242	12,751	13,615	14,282	14,815	15,189	15,540	15,753	15,937	16,043	16,024	16,063	15,814	15,699
85+	3,903	4,080	4,261	4,417	4,625	4,828	5,042	5,251	5,479	5,712	5,946	6,273	6,608	6,907	7,226	7,528	7,914	8,387	8,960	9,565	10,220	11,229	12,094
Total	131,009																						

Scenario C: Long Term Migration

Population Estimates and Forecasts		Nathaniel Lichfield & Partners																					
Components of Population Change		Breckland District																					
Year beginning July 1st		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Births																							
Male	782	798	809	807	801	798	791	784	777	769	759	748	736	725	716	708	701	697	695	694	695	698	
Female	745	760	770	769	762	760	753	747	740	732	722	712	701	691	682	674	668	664	662	661	662	665	
All Births	1,526	1,558	1,579	1,576	1,563	1,557	1,544	1,531	1,518	1,501	1,481	1,460	1,438	1,416	1,398	1,382	1,369	1,361	1,357	1,355	1,357	1,363	
TFR	2.18	2.20	2.21	2.18	2.15	2.12	2.10	2.08	2.07	2.06	2.05	2.04	2.03	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	
Births input																							
Deaths																							
Male	669	677	671	684	693	703	714	724	738	748	760	775	790	805	819	835	852	867	883	901	918	935	
Female	713	710	725	733	733	735	740	746	752	759	766	774	783	790	800	813	824	836	850	866	880	895	
All deaths	1,382	1,387	1,396	1,417	1,426	1,438	1,455	1,470	1,490	1,507	1,526	1,549	1,573	1,596	1,619	1,648	1,676	1,703	1,734	1,767	1,799	1,831	
SMR: male	95.5	93.5	89.8	88.7	86.9	85.2	83.7	82.0	80.9	79.3	78.0	77.0	76.0	75.0	73.9	73.1	72.3	71.5	70.8	70.2	69.8	69.3	
SMR: fema	96.9	93.4	92.5	90.8	88.3	86.4	84.6	82.9	81.3	79.7	78.0	76.5	75.1	73.6	72.3	71.1	69.8	68.7	67.8	67.0	66.1	65.4	
SMR: male	96.2	93.5	91.2	89.8	87.6	85.8	84.1	82.5	81.1	79.5	78.0	76.8	75.5	74.3	73.1	72.1	71.1	70.1	69.3	68.6	68.0	67.3	
Expectator	81.8	82.0	82.2	82.3	82.5	82.6	82.8	82.9	83.0	83.2	83.3	83.4	83.5	83.6	83.7	83.8	83.9	84.0	84.1	84.2	84.2	84.3	
Deaths input																							
In-migration from the UK																							
Male	2,950	2,949	2,951	2,952	2,954	2,953	2,956	2,960	2,964	2,970	2,973	2,977	2,981	2,984	2,985	2,984	2,983	2,983	2,980	2,977	2,974	2,970	
Female	3,251	3,252	3,250	3,249	3,247	3,248	3,245	3,241	3,237	3,231	3,228	3,224	3,220	3,217	3,216	3,217	3,218	3,218	3,221	3,224	3,227	3,231	
All	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	6,201	
SMgR: ma	45.5	45.1	44.8	44.4	44.2	43.9	43.8	43.8	43.8	43.9	44.0	44.0	44.1	44.1	44.0	43.9	43.8	43.6	43.4	43.1	42.8	42.5	42.2
SMgR: fem	51.2	50.8	50.4	50.0	49.8	49.7	49.5	49.4	49.4	49.4	49.3	49.2	49.2	49.0	48.8	48.6	48.3	48.0	47.7	47.4	47.0	46.7	
Migrants in																							
Out-migration to the UK																							
Male	2,545	2,543	2,550	2,548	2,553	2,561	2,565	2,565	2,567	2,572	2,581	2,583	2,583	2,579	2,585	2,587	2,583	2,582	2,579	2,576	2,575	2,571	
Female	2,834	2,836	2,829	2,831	2,826	2,818	2,814	2,814	2,812	2,807	2,798	2,796	2,796	2,800	2,794	2,792	2,796	2,797	2,800	2,803	2,804	2,808	
All	5,379	5,379	5,379	5,379	5,379	5,379	5,379	5,379	5,379	5,379	5,379	5,379	5,379	5,379	5,379	5,379	5,379	5,379	5,379	5,379	5,379	5,379	
SMgR: ma	39.3	38.9	38.7	38.4	38.2	38.1	38.0	38.0	38.0	38.1	38.2	38.2	38.2	38.1	38.0	37.9	37.7	37.5	37.3	37.0	36.8	36.5	
SMgR: fem	44.6	44.3	43.9	43.6	43.3	43.1	42.9	42.9	42.9	42.9	42.8	42.8	42.7	42.7	42.4	42.2	42.0	41.7	41.5	41.2	40.9	40.6	
Migrants in																							
In-migration from Overseas																							
Male	394	394	394	393	392	392	391	391	390	390	390	390	390	390	390	390	390	390	390	390	391	391	
Female	336	336	336	337	338	338	339	339	340	340	340	340	340	340	340	340	340	340	340	340	339	339	
All	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	730	
SMgR: ma	89.1	88.3	87.6	87.0	86.6	86.2	86.0	85.9	86.0	86.2	86.5	86.9	87.3	87.7	87.8	88.0	87.9	87.6	87.2	86.8	86.3	85.7	
SMgR: fem	80.5	80.0	79.5	79.2	79.2	79.2	79.3	79.6	79.9	80.4	80.8	81.4	81.8	82.2	82.3	82.3	82.1	81.8	81.2	80.6	80.0		
Migrants in																							
Out-migration to Overseas																							
Male	218	217	217	217	217	216	216	216	216	216	216	216	216	216	216	216	216	216	216	216	216	216	
Female	180	181	181	181	181	182	182	182	182	182	182	182	182	182	182	182	182	182	182	182	182	182	
All	398	398	398	398	398	398	398	398	398	398	398	398	398	398	398	398	398	398	398	398	398	398	
SMgR: ma	49.3	48.8	48.4	48.0	47.8	47.7	47.6	47.5	47.6	47.8	47.9	48.2	48.4	48.7	48.7	48.8	48.7	48.6	48.4	48.1	47.8	47.4	
SMgR: fem	43.2	42.9	42.7	42.6	42.5	42.5	42.5	42.6	42.8	43.0	43.3	43.5	43.7	43.9	44.0	44.0	43.9	43.7	43.5	43.2	42.8		
Migrants in																							
Migration - Net Flows																							
UK	+822	+822	+822	+822	+822	+822	+822	+822	+822	+822	+822	+822	+822	+822	+822	+822	+822	+822	+822	+822	+822	+822	
Overseas	+332	+332	+332	+332	+332	+332	+332	+332	+332	+332	+332	+332	+332	+332	+332	+332	+332	+332	+332	+332	+332	+332	
Summary of population change																							
Natural ch	+144	+172	+182	+159	+137	+119	+89	+61	+27	-6	-45	-90	-135	-180	-222	-266	-307	-342	-377	-412	-442	-468	
Net migrat	+1,154	+1,154	+1,154	+1,154	+1,154	+1,154	+1,154	+1,154	+1,154	+1,154	+1,154	+1,154	+1,154	+1,154	+1,154	+1,154	+1,154	+1,154	+1,154	+1,154	+1,154	+1,154	
Net chang	+1,298	+1,326	+1,336	+1,313	+1,291	+1,273	+1,243	+1,215	+1,181	+1,148	+1,109	+1,064	+1,019	+974	+932	+888	+847	+812	+777	+742	+712	+686	
Summary of Population estimates/forecasts																							
Population at mid-year																							
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
0-4	7,428	7,613	7,777	7,919	8,020	8,136	8,165	8,145	8,092	8,027	7,958	7,875	7,787	7,691	7,590	7,486	7,385	7,293	7,213	7,150	7,104	7,076	7,068
5-10	7,896	8,054	8,328	8,646	8,968	9,223	9,442	9,666	9,853	9,991	10,072	10,176	10,184	10,144	10,071	9,985	9,894	9,790	9,678	9,558	9,432	9,307	9,189
11-15	7,649	7,334	7,066	6,828	6,663	6,608	6,747	6,972	7,252	7,538	7,821	7,959	8,151	8,319	8,464	8,564	8,679	8,703	8,678	8,618	8,547	8,475	8,390
16-17	3,216	3,262	3,215	3,083	3,022	2,923	2,776	2,640	2,585	2,627	2,710	2,868	3,011	3,095	3,196	3,280	3,290	3,343	3,458	3,511	3,526	3,504	3,480
18-59Fem	71,340	71,527	71,758	72,190	72,623	72,974	73,310	73,596	73,687	73,828	73,873	73,822	73,862	73,839	73,821	73,687	73,689	73,654	73,538	73,551	73,547	73,744	73,988
60-65-74	20,053	20,633	21,143	21,571	21,858	22,225	22,472	22,599	22,704	22,651	22,651	22,363	22,190	22,375	22,730	23,287	23,821	24,360	24,935	25,584	26,149	26,455	26,577
75-84	9,524	9,817	10,104	10,345	10,542	10,707	10,955	11,293	11,735	12,208	12,718	13,537	14,181	14,680	14,991	15,279	15,415	15,533	15,560	15,426	15,376	15,081	14,864
85+	3,903	4,068	4,241	4,386	4,584	4,777	4,977	5,177	5,395	5,615	5,831	6,142	6,441	6,684	6,939	7,164	7,448	7,791	8,218	8,659	9,118	9,668	10,460
Total	131,009	132,307	133,633	134,969	136,282	137,573	138,846	140,089	141,304	142,485	143,633	144,743	145,807	146,826	147,800	148,732	149,620	150,467	151,279	152,056	152,798	153,510	154,196
Population impact of constraint																							
Number of persons																							
Households																							
Number of	54,715	55,461	56,169	56,898	57,602	58,288	58,958	59,587	60,217	60,817	61,432	62,000	62,554	63,128	63,713	64,270	64,805	65,339	65,859	66,373	66,921	67,418	67,900
Change over previous	+746	+708	+729	+704	+686	+670	+629	+630	+601	+615	+668	+654	+674	+658	+656	+635	+634	+621	+613	+548	+497	+482	
Number of	56,829	57,604	58,339	59,097	59,828	60,540	61,236	61,889	62,543	63,167	63,806	64,395	64,971	65,567	66,175	66,753	67,309	67,863	68,404	68,937	69,506	70,023	70,523
Change over previous	+775	+736	+757	+731	+712	+696	+653	+654	+624	+639	+690	+676	+696	+678	+656	+654	+641	+633	+569	+516	+501	+634	
Labour Force																							
Number of	63,200	63,610	63,998	64,425	64,874	65,247	65,501	65,760	66,046	66,370	66,502	66,615	66,762	66,846	67,004	67,060	67,191	67,360	67,480	67,655	67,740	67,952	68,174
Change over previous	+410	+388	+427	+449	+373	+254	+260	+286	+324	+131	+113	+147	+84	+158	+57	+131	+169						

Scenario D: Short Term Migration

Population Estimates and Forecasts		Nathaniel Lichfield & Partners																				
Components of Population Change		Breckland District																				
Year beginning July 1st																						
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Births																						
Male	782	797	806	803	795	791	783	775	767	757	746	734	721	710	700	691	684	679	676	674	674	676
Female	745	759	768	765	757	753	745	738	730	721	710	699	687	676	666	658	651	646	643	642	642	644
All Births	1,526	1,556	1,574	1,568	1,552	1,544	1,528	1,513	1,497	1,477	1,456	1,432	1,409	1,386	1,366	1,348	1,335	1,325	1,319	1,316	1,316	1,321
TFR	2.18	2.20	2.21	2.18	2.15	2.12	2.10	2.08	2.07	2.06	2.05	2.04	2.03	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99
Births input																						
Deaths																						
Male	669	676	670	683	691	700	711	720	734	743	755	769	783	798	811	826	843	857	873	889	906	922
Female	713	710	724	731	730	732	736	742	747	753	759	767	775	782	792	803	814	826	839	854	867	882
All deaths	1,382	1,386	1,394	1,413	1,421	1,432	1,447	1,462	1,480	1,496	1,514	1,536	1,559	1,580	1,603	1,630	1,657	1,683	1,712	1,743	1,774	1,804
SMR: male	95.5	93.5	89.8	88.7	86.9	85.2	83.7	82.0	80.9	79.3	78.0	77.0	76.0	75.0	73.9	73.1	72.3	71.5	70.8	70.2	69.8	69.3
SMR: fema	96.9	93.4	92.5	90.8	88.3	86.4	84.6	82.9	81.3	79.7	78.0	76.5	75.1	73.6	72.3	71.2	69.8	68.7	67.8	67.0	66.1	65.4
SMR: male	96.2	93.5	91.2	89.8	87.6	85.8	84.1	82.5	81.1	79.5	78.0	76.8	75.6	74.3	73.1	72.1	71.1	70.1	69.3	68.6	68.0	67.3
Expectation	81.8	82.0	82.2	82.3	82.5	82.6	82.8	82.9	83.0	83.2	83.3	83.4	83.5	83.6	83.7	83.8	83.9	84.0	84.1	84.2	84.2	84.3
Deaths input																						
In-migration from the UK																						
Male	2,890	2,890	2,893	2,895	2,898	2,897	2,901	2,906	2,910	2,917	2,920	2,925	2,929	2,932	2,934	2,933	2,932	2,933	2,931	2,928	2,926	2,922
Female	3,185	3,185	3,182	3,180	3,177	3,178	3,174	3,169	3,165	3,158	3,155	3,150	3,146	3,143	3,141	3,142	3,143	3,142	3,144	3,147	3,149	3,153
All	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075	6,075
SMigR: ma	44.6	44.2	43.9	43.7	43.5	43.3	43.2	43.2	43.3	43.4	43.5	43.6	43.7	43.7	43.6	43.5	43.4	43.2	43.0	42.8	42.5	42.2
SMigR: fem	50.1	49.8	49.5	49.2	49.0	48.9	48.8	48.8	48.8	48.9	48.9	48.9	48.9	48.7	48.6	48.4	48.2	47.9	47.7	47.4	47.1	46.8
Migrants in																						
Out-migration to the UK																						
Male	2,585	2,584	2,592	2,591	2,597	2,606	2,610	2,612	2,614	2,620	2,629	2,632	2,633	2,629	2,635	2,638	2,633	2,633	2,631	2,627	2,627	2,623
Female	2,879	2,880	2,872	2,873	2,867	2,858	2,854	2,852	2,850	2,844	2,835	2,832	2,831	2,835	2,829	2,826	2,831	2,831	2,833	2,837	2,837	2,841
All	5,464	5,464	5,464	5,464	5,464	5,464	5,464	5,464	5,464	5,464	5,464	5,464	5,464	5,464	5,464	5,464	5,464	5,464	5,464	5,464	5,464	5,464
SMigR: ma	39.9	39.6	39.4	39.1	38.9	38.9	38.9	38.8	38.9	39.0	39.2	39.2	39.3	39.2	39.2	39.1	38.9	38.8	38.6	38.4	38.1	37.9
SMigR: fem	45.3	45.1	44.7	44.4	44.2	44.0	43.9	43.9	43.9	44.0	44.0	44.0	43.9	43.8	43.6	43.4	43.2	42.9	42.7	42.4	42.2	42.2
Migrants in																						
In-migration from Overseas																						
Male	463	462	463	462	461	461	461	460	460	460	460	460	460	460	460	461	461	461	461	461	462	462
Female	394	395	394	395	396	396	396	397	397	397	397	397	397	397	397	397	396	396	396	396	396	395
All	857	857	857	857	857	857	857	857	857	857	857	857	857	857	857	857	857	857	857	857	857	857
SMigR: ma	104.6	103.7	103.1	102.5	102.0	101.7	101.6	101.6	101.8	102.2	102.6	103.2	103.8	104.3	104.6	104.9	104.8	104.8	104.4	104.0	103.5	102.9
SMigR: fem	94.5	94.0	93.5	93.3	93.3	93.4	93.5	93.8	94.2	94.7	95.4	96.0	96.7	97.3	97.8	98.1	98.1	98.0	97.7	97.2	96.6	95.9
Migrants in																						
Out-migration to Overseas																						
Male	241	241	241	241	240	240	240	240	240	240	240	240	241	241	241	241	241	241	241	241	241	241
Female	200	200	200	200	201	201	201	201	201	201	201	201	200	200	200	200	200	200	200	200	200	200
All	441	441	441	441	441	441	441	441	441	441	441	441	441	441	441	441	441	441	441	441	441	441
SMigR: ma	54.6	54.1	53.7	53.4	53.2	53.0	53.0	53.2	53.4	53.6	54.0	54.3	54.6	54.7	54.8	54.8	54.8	54.7	54.6	54.3	54.0	53.7
SMigR: fem	47.8	47.6	47.4	47.3	47.3	47.4	47.4	47.5	47.6	47.9	48.2	48.5	48.8	49.1	49.4	49.5	49.6	49.5	49.3	49.1	48.8	48.5
Migrants in																						
Migration - Net Flows																						
UK	+611	+611	+611	+611	+611	+611	+611	+611	+611	+611	+611	+611	+611	+611	+611	+611	+611	+611	+611	+611	+611	+611
Overseas	+416	+416	+416	+416	+416	+416	+416	+416	+416	+416	+416	+416	+416	+416	+416	+416	+416	+416	+416	+416	+416	+416
Summary of population change																						
Natural ch	+144	+170	+180	+155	+131	+112	+81	+51	+16	-19	-58	-104	-150	-195	-237	-281	-322	-358	-393	-427	-458	-484
Net migrat	+1,027	+1,027	+1,027	+1,027	+1,027	+1,027	+1,027	+1,027	+1,027	+1,027	+1,027	+1,027	+1,027	+1,027	+1,027	+1,027	+1,027	+1,027	+1,027	+1,027	+1,027	+1,027
Net chang	+1,171	+1,197	+1,207	+1,182	+1,158	+1,139	+1,108	+1,078	+1,043	+1,008	+969	+923	+877	+832	+790	+746	+705	+669	+634	+600	+569	+543
Summary of Population estimates/forecasts																						
Population at mid-year																						
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
0-4	7,428	7,600	7,751	7,878	7,965	8,066	8,081	8,049	7,983	7,905	7,824	7,729	7,630	7,524	7,414	7,302	7,194	7,095	7,009	6,939	6,886	6,852
5-10	7,896	8,043	8,306	8,612	8,920	9,159	9,362	9,568	9,738	9,857	9,921	10,007	9,999	9,944	9,856	9,755	9,652	9,534	9,411	9,280	9,145	9,012
11-15	7,649	7,326	7,051	6,805	6,633	6,570	6,701	6,915	7,183	7,456	7,725	7,849	8,025	8,178	8,306	8,391	8,490	8,501	8,463	8,391	8,309	8,225
16-17	3,216	3,260	3,211	3,076	3,013	2,910	2,761	2,623	2,565	2,604	2,683	2,836	2,973	3,051	3,146	3,225	3,228	3,275	3,382	3,428	3,437	3,411
18-59Fem	71,340	71,461	71,627	71,995	72,364	72,651	72,925	73,149	73,181	73,262	73,249	73,142	73,125	73,046	72,972	72,783	72,727	72,633	72,458	72,408	72,341	72,644
60/65-74	20,053	20,617	21,111	21,522	21,791	22,140	22,370	22,478	22,564	22,493	22,475	22,710	21,980	22,145	22,479	23,014	23,524	24,041	24,592	25,216	25,756	26,042
75-84	9,524	9,810	10,091	10,325	10,516	10,675	10,916	11,247	11,681	12,145	12,644	13,451	14,082	14,567	14,866	15,140	15,263	15,368	15,383	15,238	15,177	14,873
85+	3,903	4,063	4,231	4,371	4,564	4,752	4,947	5,142	5,355	5,570	5,780	6,085	6,378	6,615	6,864	7,083	7,360	7,696	8,114	8,546	8,994	9,729
Total	131,009	132,180	133,377	134,584	135,766	136,924	138,063	139,171	140,249	141,292	142,301	143,270	144,193	145,070	145,902	146,692	147,438	148,142	148,811	149,446	150,045	150,615
Population impact of constraint																						
Number of persons																						
Households																						
Number of	54,715	55,414	56,075	56,757	57,414	58,052	58,674	59,254	59,834	60,386	60,951	61,489	61,974	62,498	63,032	63,538	64,022	64,504	64,972	65,433	65,927	66,370
Change over previous	+699	+661	+682	+657	+638	+622	+580	+552	+565	+518	+505	+524										

Scenario E: Nil Migration

Population Estimates and Forecasts																						Nathaniel Lichfield & Partners									
Components of Population Change																						Breckland District									
Year beginning July 1st																															
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032									
Births																															
Male	782	790	794	788	777	771	761	754	749	744	739	734	729	724	720	716	712	709	706	704	702	702									
Female	745	752	756	750	740	734	725	718	713	708	704	699	694	690	686	682	678	675	672	670	669	669									
All Births	1,526	1,541	1,550	1,538	1,516	1,504	1,486	1,472	1,462	1,452	1,442	1,433	1,424	1,414	1,405	1,397	1,390	1,383	1,378	1,374	1,371	1,371									
TFR	2.18	2.20	2.21	2.18	2.15	2.12	2.10	2.08	2.07	2.06	2.05	2.04	2.03	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99									
Births input																															
Deaths																															
Male	689	688	686	682	664	667	672	676	684	688	693	702	709	717	724	731	740	747	754	762	770	777									
Female	713	700	704	702	693	687	685	684	684	684	686	689	692	695	699	706	712	718	725	734	741	748									
All deaths	1,382	1,368	1,360	1,364	1,357	1,355	1,358	1,360	1,367	1,372	1,379	1,390	1,402	1,412	1,423	1,437	1,452	1,465	1,480	1,496	1,511	1,526									
SMR: male	95.5	93.5	89.7	88.5	86.7	85.0	83.5	81.8	80.7	79.1	77.8	76.9	75.9	75.0	73.9	73.1	72.4	71.5	70.9	70.3	69.9	69.5									
SMR: fema	96.9	93.4	92.5	90.8	88.3	86.3	84.6	82.9	81.3	79.7	78.1	76.6	75.3	73.7	72.4	71.3	70.0	68.8	68.0	67.2	66.3	65.6									
SMR: male	96.2	93.4	91.1	89.6	87.5	85.7	84.0	82.4	81.0	79.4	78.0	76.7	75.6	74.4	73.2	72.2	71.2	70.2	69.4	68.8	68.1	67.5									
Expectation	81.8	82.0	82.2	82.3	82.5	82.6	82.8	82.9	83.0	83.2	83.3	83.4	83.5	83.6	83.7	83.8	83.9	84.0	84.1	84.2	84.2	84.3									
Deaths input																															
In-migration from the UK																															
Male	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
Female	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
All	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
SMGR: ma	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	0.0	0.0	0.0									
SMGR: 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	0.0	0.0	0.0									
Migrants in	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*									
Out-migration to the UK																															
Male	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
Female	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
All	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
SMGR: ma	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	0.0	0.0	0.0									
SMGR: 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	0.0	0.0	0.0									
Migrants in	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*									
In-migration from Overseas																															
Male	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
Female	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
All	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
SMGR: ma	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	0.0	0.0	0.0									
SMGR: 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	0.0	0.0	0.0									
Migrants in	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*									
Out-migration to Overseas																															
Male	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
Female	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
All	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
SMGR: ma	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	0.0	0.0	0.0									
SMGR: 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	0.0	0.0	0.0									
Migrants in	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*									
Migration - Net Flows																															
UK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
Overseas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
Summary of population change																															
Natural ch	+144	+174	+190	+174	+159	+149	+129	+112	+95	+80	+63	+43	+22	+1	-18	-40	-62	-81	-101	-122	-140	-155									
Net migrat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
Net chang	+144	+174	+190	+174	+159	+149	+129	+112	+95	+80	+63	+43	+22	+1	-18	-40	-62	-81	-101	-122	-140	-155									
Summary of Population estimates/forecasts																															
	Population at mid-year																														
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033								
0-4	7,428	7,511	7,559	7,596	7,600	7,639	7,617	7,563	7,486	7,412	7,348	7,287	7,234	7,186	7,138	7,092	7,047	7,004	6,965	6,930	6,899	6,873	6,855								
5-10	7,896	7,989	8,206	8,455	8,692	8,844	8,941	9,039	9,096	9,121	9,104	9,131	9,092	9,024	8,937	8,853	8,779	8,709	8,647	8,589	8,533	8,479	8,428								
11-15	7,649	7,327	7,036	6,770	6,577	6,471	6,551	6,718	6,947	7,163	7,370	7,419	7,502	7,550	7,588	7,592	7,631	7,610	7,556	7,479	7,405	7,341	7,280								
16-17	3,216	3,275	3,221	3,079	3,001	2,904	2,764	2,608	2,522	2,543	2,606	2,738	2,855	2,918	2,988	3,029	2,994	2,987	3,050	3,073	3,070	3,037	3,004								
18-59Fem	71,340	70,871	70,493	70,335	70,210	70,022	69,836	69,622	69,248	68,915	68,503	68,030	67,644	67,235	66,845	66,383	66,027	65,652	65,195	64,838	64,479	64,296	64,157								
60/65 -74	20,053	20,437	20,738	20,949	21,005	21,126	21,118	20,994	20,835	20,534	20,265	19,716	19,288	19,171	19,219	19,439	19,652	19,864	20,117	20,442	20,705	20,774	20,850								
75-84	9,524	9,763	10,000	10,190	10,335	10,449	10,637	10,905	11,263	11,642	12,052	12,737	13,242	13,608	13,783	13,929	13,929	13,905	13,786	13,519	13,304	12,847	12,469								
85+	3,903	3,980	4,073	4,143	4,270	4,395	4,536	4,679	4,842	5,005	5,166	5,420	5,684	5,850	6,045	6,211	6,427	6,693	7,028	7,370	7,725	8,330	8,782								
Total	131,009	131,153	131,327	131,517	131,691	131,850	131,999	132,128	132,240	132,335	132,415	132,478	132,521	132,542	132,544	132,526	132,486	132,424	132,343	132,241	132,119	131,979	131,824								
Population impact of constraint																															
Number of persons																															
Households																															
Number of	54,715	54,870	54,986	55,099	55,159	55,195	55,253	55,360	55,483	55,595	55,724	55,802	55,863	55,924	55,980	55,996	55,988	55,996	55,997	55,997	56,033	56,022	56,007								
Change over previous :	+154	+116	+114	+59	+36	+59	+107	+123	+111	+129	+78	+61	+61	+56	+15	-8	+8	+1	+1	+36	-11	-15									
Number of	56,829	56,990	57,110	57,228	57,290	57,327	57,388	57,499	57,627	57,743	57,877	57,958	58,022	58,085	58,143	58,159	58,151	58,160	58,160	58,161	58,198	58,187	58,171								
Change over previous :	+160	+121	+118	+																											

Scenario F: EEFM Economic Forecast

Population Estimates and Forecasts		Nathaniel Lichfield & Partners																				
Components of Population Change		Breckland District																				
Year beginning July 1st																						
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Births																						
Male	782	803	780	767	769	768	770	771	770	763	756	747	735	724	712	703	694	687	682	677	676	679
Female	745	765	743	731	732	731	734	735	733	727	720	711	700	689	678	670	661	654	649	645	644	647
All Births	1,526	1,568	1,522	1,498	1,501	1,499	1,504	1,506	1,503	1,490	1,476	1,458	1,435	1,413	1,390	1,373	1,356	1,341	1,331	1,322	1,320	1,326
TFR	2.18	2.20	2.21	2.18	2.15	2.12	2.10	2.08	2.07	2.06	2.05	2.04	2.03	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99
Births input																						
Deaths																						
Male	669	678	664	674	686	697	711	723	738	749	762	778	793	808	821	837	854	869	886	902	921	939
Female	713	712	716	720	723	727	736	746	754	761	770	778	787	795	804	817	828	839	853	868	883	900
All deaths	1,382	1,390	1,379	1,394	1,409	1,424	1,447	1,469	1,492	1,511	1,532	1,556	1,580	1,603	1,625	1,654	1,682	1,709	1,739	1,771	1,804	1,839
SMR: male	95.5	93.5	89.8	88.6	86.9	85.2	83.7	82.1	80.9	79.4	78.0	77.1	76.0	75.1	74.0	73.1	72.4	71.5	70.8	70.2	69.8	69.3
SMR: fema	96.9	93.4	92.5	90.8	88.3	86.4	84.6	82.9	81.3	79.7	78.0	76.5	75.1	73.6	72.3	71.1	69.8	68.6	67.8	67.0	66.1	65.3
SMR: male	96.2	93.5	91.2	89.7	87.6	85.8	84.2	82.5	81.1	79.5	78.0	76.8	75.6	74.3	73.1	72.1	71.1	70.1	69.3	68.6	68.0	67.3
Expectator	81.8	82.0	82.2	82.3	82.5	82.6	82.8	82.9	83.0	83.2	83.3	83.4	83.5	83.6	83.7	83.8	83.9	84.0	84.1	84.2	84.2	84.3
Deaths input																						
In-migration from the UK																						
Male	3,232	1,826	2,647	3,392	3,196	3,500	3,461	3,391	3,251	3,311	3,260	3,190	3,221	3,176	3,272	3,220	3,191	3,252	3,210	3,299	3,432	3,452
Female	3,562	2,015	2,896	3,697	3,486	3,822	3,780	3,699	3,539	3,591	3,528	3,443	3,466	3,409	3,507	3,453	3,422	3,484	3,443	3,543	3,692	3,723
All	6,794	3,841	5,543	7,089	6,682	7,321	7,240	7,090	6,790	6,902	6,788	6,633	6,687	6,584	6,780	6,674	6,613	6,737	6,653	6,842	7,124	7,175
SMgR: ma	49.9	27.8	41.0	52.5	48.8	53.1	51.9	50.5	48.2	49.0	48.2	47.1	47.6	46.8	48.2	47.3	46.8	47.5	46.8	47.9	49.6	49.5
SMgR: fem	56.1	31.3	46.2	59.2	55.1	60.1	58.7	57.0	54.3	55.2	54.2	52.8	53.2	52.2	53.7	52.6	51.9	52.7	51.8	53.0	54.8	54.8
Migrants input																						
Out-migration to the UK																						
Male	2,694	2,729	2,695	2,697	2,727	2,748	2,778	2,796	2,807	2,812	2,828	2,841	2,849	2,861	2,872	2,888	2,892	2,899	2,904	2,910	2,924	2,940
Female	3,000	3,046	2,968	2,968	2,995	3,001	3,030	3,053	3,063	3,057	3,056	3,063	3,070	3,090	3,087	3,097	3,111	3,117	3,127	3,140	3,157	3,183
All	5,694	5,775	5,664	5,665	5,722	5,749	5,808	5,849	5,871	5,869	5,883	5,904	5,919	5,951	5,959	5,984	6,003	6,015	6,030	6,050	6,081	6,123
SMgR: ma	41.6	41.6	41.7	41.7	41.7	41.7	41.7	41.6	41.6	41.6	41.8	41.9	42.1	42.2	42.3	42.4	42.4	42.4	42.3	42.3	42.2	42.1
SMgR: fem	47.2	47.4	47.3	47.5	47.3	47.2	47.1	47.0	47.0	47.0	46.9	47.0	47.1	47.3	47.2	47.2	47.2	47.1	47.0	47.0	46.9	46.8
Migrants input																						
In-migration from Overseas																						
Male	499	502	489	485	487	486	489	490	489	487	485	482	479	477	475	473	472	471	470	470	471	
Female	425	429	414	411	414	415	419	422	424	423	422	421	418	416	414	411	409	408	407	405	404	404
All	924	931	903	895	901	902	909	913	914	911	909	906	900	895	890	887	882	879	878	875	874	875
SMgR: ma	112.8	112.0	111.2	110.6	109.9	109.2	108.8	108.3	108.1	107.9	107.8	107.8	107.7	107.6	107.3	107.0	106.7	106.2	106.2	105.7	105.0	104.4
SMgR: fem	101.9	101.5	101.0	100.8	100.6	100.4	100.2	100.0	99.9	99.9	100.1	100.2	100.4	100.4	100.7	100.5	100.2	100.0	99.7	99.0	98.3	97.5
Migrants input																						
Out-migration to Overseas																						
Male	267	271	268	269	275	280	282	282	283	283	282	282	280	279	278	277	276	275	275	274	274	274
Female	221	225	221	222	228	232	234	236	237	236	236	236	235	233	232	231	230	229	229	228	227	227
All	487	496	489	490	502	511	516	518	520	519	519	517	515	513	510	508	506	505	504	502	501	501
SMgR: ma	60.3	60.4	60.9	61.3	62.0	62.6	62.4	62.4	62.4	62.4	62.4	62.5	62.7	62.7	62.7	62.7	62.5	62.4	62.2	62.0	61.6	61.2
SMgR: fem	52.9	53.2	53.9	54.4	55.2	56.1	56.0	55.9	55.9	55.9	56.1	56.2	56.3	56.4	56.5	56.5	56.4	56.3	56.1	55.7	55.3	54.9
Migrants input																						
Migration - Net Flows																						
UK	+1,100	-1,934	-121	+1,424	+960	+1,573	+1,432	+1,241	+919	+1,033	+904	+728	+768	+633	+821	+690	+610	+721	+623	+791	+1,043	+1,052
Overseas	+437	+435	+415	+405	+399	+390	+393	+394	+394	+392	+391	+389	+385	+382	+381	+379	+376	+375	+374	+373	+373	+374
Summary of population change																						
Natural ch	+144	+178	+143	+104	+91	+75	+57	+38	+11	-21	-55	-99	-145	-190	-235	-282	-327	-368	-408	-449	-484	-513
Net migrat	+1,536	-1,499	+294	+1,829	+1,359	+1,963	+1,825	+1,635	+1,313	+1,425	+1,295	+1,117	+1,153	+1,016	+1,201	+1,088	+986	+1,096	+997	+1,164	+1,416	+1,426
Net change	+1,680	-1,321	+437	+1,933	+1,451	+2,038	+1,882	+1,673	+1,324	+1,404	+1,240	+1,018	+1,008	+825	+966	+787	+660	+728	+590	+715	+932	+913
Summary of Population estimates/forecasts																						
Population at mid-year																						
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
0-4	7,428	7,640	7,595	7,639	7,760	7,869	7,947	7,972	7,968	7,935	7,901	7,844	7,764	7,675	7,565	7,464	7,354	7,241	7,145	7,055	6,990	6,958
5-10	7,896	8,073	8,184	8,436	8,783	9,032	9,283	9,535	9,729	9,851	9,936	10,040	10,046	10,010	9,948	9,890	9,813	9,715	9,610	9,485	9,360	9,248
11-15	7,649	7,346	6,965	6,686	6,546	6,495	6,660	6,905	7,197	7,482	7,767	7,899	8,074	8,232	8,348	8,428	8,527	8,539	8,509	8,459	8,413	8,371
16-17	3,216	3,268	3,171	3,029	2,978	2,876	2,745	2,618	2,567	2,609	2,694	2,854	2,994	3,073	3,166	3,247	3,248	3,290	3,402	3,439	3,436	3,424
18-59Fem	71,340	71,791	70,312	70,195	71,066	71,554	72,407	73,122	73,518	73,754	73,959	73,983	73,988	73,941	73,809	73,668	73,579	73,400	73,202	73,070	73,021	73,008
60/65-74	20,053	20,664	20,942	21,286	21,626	22,007	22,323	22,507	22,659	22,630	22,667	22,406	22,245	22,451	22,816	23,406	23,959	24,507	25,096	25,743	26,324	26,670
75-84	9,524	9,828	10,024	10,236	10,457	10,630	10,905	11,264	11,720	12,194	12,709	13,530	14,166	14,660	14,965	15,253	15,383	15,492	15,522	15,390	15,353	15,084
85+	3,903	4,080	4,176	4,299	4,523	4,727	4,959	5,185	5,423	5,650	5,876	6,193	6,490	6,733	6,983	7,211	7,492	7,829	8,255	8,690	9,150	9,917
Total	131,009	132,689	131,368	131,805	133,738	135,189	137,227	139,109	140,781	142,106	143,510	144,749	145,768	146,776	147,601	148,567	149,354	150,013	150,742	151,332	152,047	152,979
Population impact of constraint																						
Number of persons		+373	-2,665	-857	+687	+183	+755	+580	+352	-8	+70	-81	-258	-224	-345	-169	-305	-393	-296	-411	-249	
Labour Force																						
Number of	63,200	63,838	62,778	62,731	63,547	64,035	64,733	65,364	65,910	66,318	66,590	66,772	66,892	66,960	67,025							

Scenario G: Supply Led Scenario

Population Estimates and Forecasts		Nathaniel Lichfield & Partners																						
Components of Population Change		Breckland District																						
Year beginning July 1st																								
		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	
Births																								
Male		782	792	797	790	779	772	761	753	744	734	724	713	703	692	683	676	671	668	667	667	668	673	
Female		745	754	759	753	742	735	725	717	709	699	689	679	669	659	650	643	639	636	635	636	637	641	
All Births		1,526	1,547	1,557	1,543	1,521	1,507	1,487	1,470	1,453	1,434	1,413	1,392	1,372	1,352	1,333	1,319	1,309	1,303	1,302	1,303	1,305	1,314	
TFR		2.18	2.20	2.21	2.18	2.15	2.12	2.10	2.08	2.07	2.06	2.05	2.04	2.03	2.01	2.00	1.99	1.99	1.99	1.99	1.99	1.99	1.99	
Births input																								
Deaths																								
Male		669	675	668	680	688	697	708	717	731	741	753	769	784	799	813	829	847	863	880	897	916	934	
Female		713	708	722	728	726	728	733	738	744	751	758	767	776	784	794	807	820	832	847	864	878	895	
All deaths		1,382	1,383	1,390	1,408	1,415	1,425	1,440	1,456	1,475	1,492	1,511	1,535	1,560	1,583	1,607	1,636	1,666	1,695	1,727	1,761	1,794	1,828	
SMR: male		95.5	93.5	89.8	88.7	86.9	85.2	83.7	82.0	80.9	79.3	78.0	77.1	76.0	75.1	74.0	73.1	72.4	71.5	70.8	70.3	69.9	69.4	
SMR: fema		96.9	93.4	92.5	90.8	88.3	86.4	84.6	82.9	81.3	79.7	78.0	76.5	75.1	73.6	72.3	71.1	69.8	68.7	67.8	67.0	66.1	65.4	
SMR: male		96.2	93.5	91.2	89.8	87.6	85.8	84.1	82.5	81.1	79.5	78.0	76.8	75.6	74.3	73.1	72.1	71.1	70.1	69.3	68.6	68.0	67.3	
Expectation		81.8	82.0	82.2	82.3	82.5	82.6	82.8	82.9	83.0	83.2	83.3	83.4	83.5	83.6	83.7	83.8	83.9	84.0	84.1	84.1	84.2	84.3	
Deaths input																								
In-migration from the UK																								
Male		2,817	2,885	2,878	2,930	2,965	2,993	3,057	3,063	3,101	3,088	3,146	3,175	3,164	3,169	3,213	3,250	3,266	3,295	3,314	3,287	3,360	3,393	
Female		3,104	3,176	3,159	3,209	3,239	3,270	3,331	3,327	3,358	3,331	3,387	3,409	3,389	3,389	3,433	3,475	3,496	3,528	3,555	3,532	3,617	3,662	
All		5,921	6,061	6,037	6,139	6,204	6,263	6,387	6,390	6,459	6,419	6,532	6,584	6,553	6,558	6,645	6,724	6,762	6,823	6,869	6,818	6,977	7,054	
SMGr: ma		43.5	44.3	44.0	44.6	45.0	45.3	46.2	46.3	46.9	46.7	47.7	48.1	47.9	47.9	48.4	48.8	48.8	49.0	49.1	48.4	49.1	49.3	
SMGr: fem		48.9	49.9	49.5	50.2	50.7	51.3	52.3	52.2	52.9	52.6	53.6	53.9	53.5	53.3	53.9	54.3	54.2	54.3	54.3	53.5	54.3	54.5	
Migrants input																								
Out-migration to the UK																								
Male		2,694	2,709	2,728	2,740	2,745	2,755	2,760	2,759	2,756	2,755	2,762	2,773	2,782	2,791	2,808	2,823	2,832	2,846	2,855	2,869	2,885	2,900	
Female		3,000	3,016	3,016	3,029	3,021	3,009	3,003	3,000	2,991	2,979	2,967	2,973	2,984	3,006	3,008	3,020	3,042	3,057	3,074	3,098	3,117	3,142	
All		5,694	5,725	5,745	5,769	5,766	5,763	5,759	5,747	5,744	5,734	5,729	5,745	5,766	5,800	5,816	5,843	5,874	5,903	5,930	5,968	6,002	6,041	
SMGr: ma		41.6	41.6	41.7	41.7	41.6	41.7	41.7	41.7	41.7	41.7	41.8	42.0	42.1	42.2	42.3	42.4	42.4	42.3	42.3	42.2	42.2	42.1	
SMGr: fem		47.2	47.4	47.3	47.4	47.3	47.2	47.1	47.1	47.1	47.0	47.0	47.0	47.1	47.3	47.2	47.2	47.2	47.1	47.0	46.9	46.8	46.8	
Migrants input																								
In-migration from Overseas																								
Male		499	497	496	494	491	487	485	482	479	477	474	472	470	468	466	465	464	464	464	465	465	465	
Female		425	424	422	421	419	417	415	413	411	409	407	406	404	402	401	399	399	399	399	399	399	399	
All		924	921	918	915	909	904	900	895	891	887	882	878	874	870	867	864	862	863	864	864	864	864	
SMGr: ma		112.8	112.0	111.3	110.6	109.9	109.2	108.8	108.3	108.0	107.9	107.8	107.8	107.9	107.8	107.7	107.5	107.1	106.8	106.3	105.8	105.1	104.5	
SMGr: fem		101.9	101.5	101.0	100.8	100.5	100.3	100.2	100.0	100.0	100.0	100.2	100.3	100.5	100.5	100.7	100.5	100.1	99.8	99.6	98.9	98.2	97.4	
Migrants input																								
Out-migration to Overseas																								
Male		267	269	271	273	277	280	279	278	277	276	275	274	274	273	271	271	270	270	271	271	270	270	
Female		221	222	225	227	230	233	232	231	231	230	229	228	227	226	226	225	225	224	225	225	224	224	
All		487	491	496	500	507	513	511	509	508	506	504	502	501	499	497	495	495	495	495	494	495	495	
SMGr: ma		60.3	60.5	60.8	61.2	61.9	62.7	62.6	62.5	62.5	62.5	62.5	62.7	62.8	62.8	62.7	62.6	62.4	62.2	62.0	61.6	61.1	60.6	
SMGr: fem		52.9	53.3	53.8	54.3	55.2	56.0	56.0	56.0	56.0	56.1	56.2	56.3	56.5	56.5	56.6	56.6	56.4	56.2	56.0	55.6	55.2	54.8	
Migrants input																								
Migration - Net Flows																								
UK		+227	+336	+292	+370	+438	+500	+624	+631	+712	+685	+803	+839	+787	+758	+830	+881	+888	+920	+939	+851	+975	+1,013	
Overseas		+437	+430	+422	+415	+403	+391	+388	+386	+383	+381	+378	+376	+373	+371	+370	+369	+367	+368	+369	+369	+369	+370	
Summary of population change																								
Natural ch		+144	+163	+167	+135	+106	+82	+46	+14	-23	-58	-98	-143	-188	-232	-274	-317	-357	-391	-425	-458	-489	-515	
Net migrat		+663	+766	+714	+785	+841	+891	+1,013	+1,017	+1,095	+1,066	+1,180	+1,214	+1,160	+1,129	+1,200	+1,250	+1,255	+1,288	+1,308	+1,219	+1,344	+1,383	
Net chang		+808	+930	+881	+920	+947	+973	+1,059	+1,031	+1,072	+1,008	+1,082	+1,071	+972	+897	+926	+933	+898	+897	+883	+761	+855	+868	
Summary of Population estimates/forecasts																								
Population at mid-year																								
		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033
0-4		7,428	7,571	7,698	7,793	7,851	7,924	7,915	7,869	7,791	7,710	7,625	7,538	7,451	7,355	7,254	7,157	7,068	6,988	6,924	6,877	6,840	6,829	6,838
5-10		7,896	8,021	8,266	8,548	8,836	9,057	9,244	9,439	9,595	9,705	9,757	9,837	9,826	9,767	9,677	9,581	9,488	9,385	9,281	9,172	9,055	8,949	8,853
11-15		7,649	7,309	7,020	6,761	6,578	6,506	6,628	6,838	7,101	7,371	7,636	7,762	7,941	8,092	8,215	8,297	8,395	8,403	8,367	8,299	8,220	8,147	8,067
16-17		3,216	3,252	3,198	3,058	2,990	2,884	2,732	2,594	2,535	2,525	2,653	2,806	2,944	3,022	3,117	3,196	3,202	3,250	3,357	3,402	3,409	3,383	3,356
18-59Fem		71,340	71,223	71,214	71,371	71,571	71,722	71,890	72,083	72,087	72,188	72,175	72,138	72,208	72,177	72,125	71,996	72,027	72,018	71,943	72,002	71,983	72,232	72,544
60/65-74		20,053	20,588	21,061	21,448	21,700	22,038	22,260	22,373	22,465	22,408	22,402	22,123	21,962	22,154	22,516	23,088	23,642	24,206	24,811	25,490	26,079	26,423	26,768
75-84		9,524	9,798	10,071	10,296	10,480	10,635	10,873	11,205	11,640	12,107	12,608	13,419	14,058	14,549	14,853	15,136	15,271	15,389	15,419	15,291	15,245	14,963	14,763
85+		3,903	4,054	4,217	4,352	4,542	4,729	4,926	5,125	5,343	5,565	5,781	6,096	6,401	6,647	6,904	7,135	7,426	7,777	8,213	8,664	9,127	9,886	10,492
Total		131,009	131,817	132,746	133,627	134,547	135,494	136,467	137,526	138,55														



**Nathaniel Lichfield
& Partners**

Planning. Design. Economics.

-  Applications & Appeals
-  Climate Change & Sustainability
-  Community Engagement
-  Daylight & Sunlight
-  Economics & Regeneration
-  Environmental Assessment
-  Expert Evidence
-  GIS & Graphics
-  Heritage
-  Property Economics
-  Site Finding & Land Assembly
-  Strategy & Appraisal
-  Urban Design

Cardiff
029 2043 5880

Leeds
0113 397 1397

London
020 7837 4477

Manchester
0161 837 6130

Newcastle
0191 261 5685

nlpplanning.com