Population and Household Projections for Stafford Borough
April 2011

1. **Introduction**

    This technical report contains population and household projections to assist in the formulation of planning policy. It is important to note that the projections are trend based and therefore do not take into account current policy or development aims.

    The projections have been produced in order to realise local housing need by providing an understanding of the effects of migration on the numbers and types of households formed. This report therefore contains two sets of projections, one set excludes migration data to form a 'natural change' projection and the other includes migration flows.

    It is important to apply caution to 'natural change' projections due to the fact that they are an estimate of what would occur if migration is set to zero within the calculations, not necessarily what occurs in reality.

2. **Methodology**

    In order to produce the projections contained within this report, the POPGROUP suite of software which is owned by the Local Government Association was utilised. The models contained within the suite are underpinned by MS Excel and accommodate projection methodologies of all of the UK statistical agencies such as the Office for National Statistics.

    The production of household projections requires a population forecast to be undertaken which alongside household representative rates feeds into the household model. Detailed below therefore are the processes and inputs required to firstly run the population projection and secondly to run the household projection. Please note that the following processes relate to the 'natural change' forecasts as the migratory projections are a replication of the ONS 2008-based sub-national projections.

2.1. **Population Model**

    The POPGROUP population model ages the population by individual years of age from the base year then applies age specific fertility rates to calculate the number of births and national age specific mortality rates to calculate the number of deaths. The population base was taken from the ONS 2008 Revised Mid-Year Estimates by Single Years of Age and the fertility and mortality rates were taken from the 2008-based national projections.

2.2. **Household Model**

    The process by which the household projections are derived is firstly to establish a private household population – this is undertaken by making a population adjustment to the population forecast. The CLG 2008-based projections use 2001 census data to calculate those not in households which are thereby removed from the population forecast to create the private household population. The final stage is to apply 2008-based headship rates to the private household population in order to produce a household forecast.

3. **Population Projections**

Table 1 below sets out the population projections for the period 2008 to 2033, together with 20 year and 25 year change data.

Table 1: Population Projections

	base year						Change 2008 - 2028	Change 2008 - 2033
Stafford	2008	2013	2018	2023	2028	2033		
Natural Change Population Projection	125,240	125,390	125,380	125,270	124,820	123,740	-420	-1,500
Projection including migration	125,240	129,090	132,930	136,770	140,180	142,880	14,940	17,640
Difference	-	3,700	7,550	11,500	15,360	19,140		

4. **Household Projections**

Table 2 below sets out the household projections for the period 2008 to 2033, together with 20 year and 25 year change data. The types of households are aggregated into four categories – details of which are shown within Appendix 1.

Table 2: Household Projections

	base year						Change 2008 - 2028	Change 2008 - 2033
Stafford	2008	2013	2018	2023	2028	2033		
Natural Change Household Projection	52,999	54,115	55,185	56,041	56,447	56,534	3,448	3,535
Projection including migration	52,999	55,476	58,068	60,518	62,683	64,522	9,684	11,523
Difference	-	1,362	2,883	4,477	6,237	7,988		
Natural Change Household Types								
One person households	15,338	16,305	17,226	18,230	18,817	19,037	3,480	3,699
One family and no others	30,655	31,790	32,708	33,154	33,287	33,236	2,633	2,581
Couple & 1 or more adults	4,272	3,484	2,847	2,248	1,802	1,493	-2,470	-2,779
Lone parent & 1 or more adults	2,734	2,536	2,404	2,409	2,540	2,768	-194	34
Projection including migration								
One person households	15,338	16,682	18,017	19,504	20,652	21,450	5,314	6,112
One family and no others	30,655	32,631	34,543	35,993	37,220	38,254	6,565	7,600
Couple & 1 or more adults	4,272	3,559	2,978	2,427	2,022	1,729	-2,250	-2,543
Lone parent & 1 or more adults	2,734	2,604	2,531	2,595	2,789	3,089	55	355

ONS Codes Derived Forecast

Household Types

One person households:

OPM	OPMAL	One person households: Male
OPF	OPFEM	One person households: Female

One family and no others:

OCZZP	FAMC0	One family and no others: Couple: No dependent children
OC1P	FAMC1	One family and no others: Couple: 1 dependent child
OC2P	FAMC2	One family and no others: Couple: 2 dependent children
OC3P	FAMC3	One family and no others: Couple: 3+ dependent children
OL1P	FAML1	One family and no others: Lone parent: 1 dependent child
OL2P	FAML2	One family and no others: Lone parent: 2 dependent children
OL3P	FAML3	One family and no others: Lone parent: 3+ dependent children

Couple and one or more adults:

MCZDP	MIX C0	A couple and one or more other adults: No dependent children
MC1P	MIX C1	A couple and one or more other adults: 1 dependent child
MC2P	MIX C2	A couple and one or more other adults: 2 dependent children
MC3P	MIX C3	A couple and one or more other adults: 3+ dependent children

Lone parent and one or more adults:

ML1P	MIX L1	A lone parent and one or more other adults: 1 dependent child
ML2P	MIX L2	A lone parent and one or more other adults: 2 dependent children
ML3P	MIX L3	A lone parent and one or more other adults: 3+ dependent children
OTAP	OTHHHH	Other households