Nathaniel Lichfield & Partners
Planning. Design. Economics.

Addendum

Our ref MA41022/03
Date 29 May 2013

Subject **Mid-2002 to Mid-2010 Sub-national Population Estimates revised following the 2011 Census**

1.0 Introduction

1.1 This Addendum should be read in conjunction with the Hearing Statement entitled '*Implications of the 2011-based CLG Household Projections: Lichfield, Tamworth and Cannock Chase Housing Requirement Update'* (17 May 2013) and produced by Nathaniel Lichfield and Partners [NLP] on behalf of the three south-east Staffordshire Councils.

1.2 The sub-national population estimates for England and Wales for mid-2002 to mid-2010 were revised by ONS following the 2011 Census and released on 30 April 2013. The revised series provides a consistent time-series of population estimates to mid-2011 for each local authority in England and Wales.

1.3 The former mid-2002 to mid-2010 estimates were based on population change since mid-2001. However, any estimates are subject to uncertainty, and particularly so for measures of internal and international migration. As there is no means of verifying the true population in any year between censuses, the amount of uncertainty inevitably accumulated as the decade progressed. The 2011 Census and the resulting mid-2011 estimates provide a new base point at which certainty is much greater. Therefore, by revising the mid-2002 to mid-2010 estimates to bring them into line with the Census-based mid-2011 estimates, ONS created a more accurate and consistent series. This can now be used directly as a base for other population statistics such as population projections, population estimates by ethnic group and population estimates for small geographic areas[1].

1.4 The implication for NLP's Housing Needs (HEaDROOM) Study for the three east Staffordshire districts of Cannock Chase, Lichfield and Tamworth, is that new and more robust data is now available to inform the housing model. Specifically, as part of this revised series, past trend estimates of migration have been revised from those which ONS previously used. Previous trends

[1] ONS (30 April 2013): Statistical Bulletin: Population Estimates for England and Wales, Mid-2002 to Mid-2010 Revised (Subnational), p2

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were drawn from the estimates within the Mid-Year Estimates series built up from a Census 2001 base. This new series fully reflects the Census 2011 results.

1.5 NLP has re-visited the HEaDROOM analysis to incorporate two new migration trend scenarios incorporating the latest CLG 2011-based (interim) household projections and the updated ONS mid-year sub-national population and migration estimates for 2001-2011. Similar assumptions have been made concerning vacancy rates, unemployment, headship rates and economic activity as in the May 2013 update. The output sheets are provided in Appendix 1, whilst a summary of the key assumptions is provided in Appendix 2. The new scenarios are as follows:

1 **Long Term Past Migration Trends** – A demographic-led scenario modelled on the basis of past migration trends in Cannock Chase, Lichfield and Tamworth districts over the past 10 years;

2 **Short Term Past Migration Trends** – A demographic-led scenario modelled on the basis of past migration trends in Cannock Chase, Lichfield and Tamworth districts over the past 5 years.

2.0 Results

Scenario L: Long Term Past Migration Trends

2.1 Migration is an important driver of population growth in all three south east Staffordshire Councils, but particularly so for Lichfield District. In order to understand the sensitivity of the housing requirements figure to changes in migration rates, this scenario - examining long term past migration trends - incorporates the average rate of internal and international migration over the past ten years. These rates are shown in Table 2.1.

Table 2.1 Long Term Annual Average Migration Trends (Mid-2002 – Mid-2011)

Migration Type	Cannock Chase	Lichfield	Tamworth
Domestic Migration In	+3,338	+4,935	+2,734
Domestic Migration Out	-3,269	-4,315	-2,950
Net Domestic Migration	**+69**	**+620**	**-216**
International Migration In	+101	+220	+159
International Migration Out	-99	-138	-114
Net International Migration	**+2**	**+83**	**+45**
Total Net Migration	**+71**	**+703**	**-171**

Source: ONS mid-year sub-national population estimates for mid-2002 to mid-2011, revised following the 2011 Census (30 April 2013)

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2.2 This scenario is a reasonable proxy for what can be expected to occur in migration terms going forward, particularly as these long term past trends show that migration has fluctuated significantly during this period, and therefore this scenario represents a 'smoothed' trend. For the south east Staffordshire HMA as a whole, this scenario would lead to a growth in the population totalling c.22,390 by 2028, of which 9,254 would be from natural change and 13,135 from net in-migration. The table indicates that migration is by far the greatest driver of population growth in Lichfield with natural change playing a sub-ordinate role, whilst for both Tamworth and Cannock Chase the reverse is true.

Table 2.2 Summary of Long Term Annual Average Migration Trends Scenario L 2011-28

2011-28	Cannock Chase	Lichfield	Tamworth	South East Staffordshire
Population Change	+4,702	+11,546	+6,140	+22,388
of which Natural Change	+4,244	-1,820	+6,829	+9,254
of which Net Migration	+458	+13,366	-689	+13,135
Household Change	+3,851	+6,473	+3,939	+14,263
Dwelling Change	+3,966	+6,680	+4,036	+14,682
Dwellings p.a.	**+233**	**+393**	**+237**	**+864**
Economic Activity	-1,815	+752	-875	-1,938
Jobs	-459	+1,274	+89	+904

Source: NLP Analysis Using PopGroup

2.3 This scenario would lead to household growth totalling 14,260 between 2011 and 2028 in the HMA. Taking account of the dwelling vacancy and second home rate, this generates a requirement for 14,682 new dwellings over the 17-year period in the HMA, equivalent to **864 dpa**. At district level, this equates to 233 dpa in Cannock Chase; 393 dpa in Lichfield and 237 dpa in Tamworth.

Scenario M: Short Term Past Migration Trends

2.4 The short term past migration trends scenario is similar to Scenario L, in that it is based on past observed trends. However, it is based upon only the previous five years of migration, during which there has been a lower observed level of net domestic in-migration and lower levels of net international in-migration as well. Therefore, this scenario is based upon the migration levels outlined in Table 2.3.

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Table 2.3 Short Term Annual Average Migration Trends (Mid-2007 – Mid-2011)

Migration Type	Cannock Chase	Lichfield	Tamworth
Domestic Migration In	+3,245	+4,803	+2,709
Domestic Migration Out	-3,283	-4,301	-2,887
Net Domestic Migration	**-38**	**+502**	**-178**
International Migration In	+118	+254	+189
International Migration Out	-103	-163	-117
Net International Migration	**+15**	**+91**	**+72**
Total Net Migration	**-22**	**+593**	**-106**

Source: ONS mid-year sub-national population estimates for mid-2007 to mid-2011, revised following the 2011 Census (30 April 2013)

2.5 This scenario would lead to a population increase of 21,540 over the period 2011 to 2028 in the HMA. This would comprise 9,233 more people associated with natural change factors and 12,307 from net in-migration. Similar patterns are observed as before, with in-migration driving growth in Lichfield in stark contrast to Cannock Chase and Tamworth. This would lead to a growth in the number of households in the south east Staffordshire HMA of 13,960 between 2011 and 2028, which would equate to a total dwelling requirement of 14,368 dwellings. This would be the equivalent of **845 dpa,** a slightly lower rate than the longer term trends would suggest.

2.6 As illustrated in Table 2.4, at district level, this equates to 220 dpa in Cannock Chase; 379 dpa in Lichfield and 246 dpa in Tamworth. These figures are lower for Cannock Chase and Lichfield than the long term trend scenario suggested, but slightly higher for Tamworth.

Table 2.4 Summary of Short Term Annual Average Migration Trends Scenario M 2011-28

2011-28	Cannock Chase	Lichfield	Tamworth	South East Staffordshire
Population Change	+4,114	+10,872	+6,555	+21,540
of which Natural Change	+4,219	-1,840	+6,854	+9,233
of which Net Migration	-106	+12,712	-299	+12,307
Household Change	+3,637	+6,235	+4,087	+13,960
Dwelling Change	+3,746	+6,435	+4,188	+14,368
Dwellings p.a.	**+220**	**+379**	**+246**	**+845**
Economic Activity	-2,142	+397	-636	-2,381
Jobs	-699	+967	+282	+550

Source: NLP Analysis Using PopGroup

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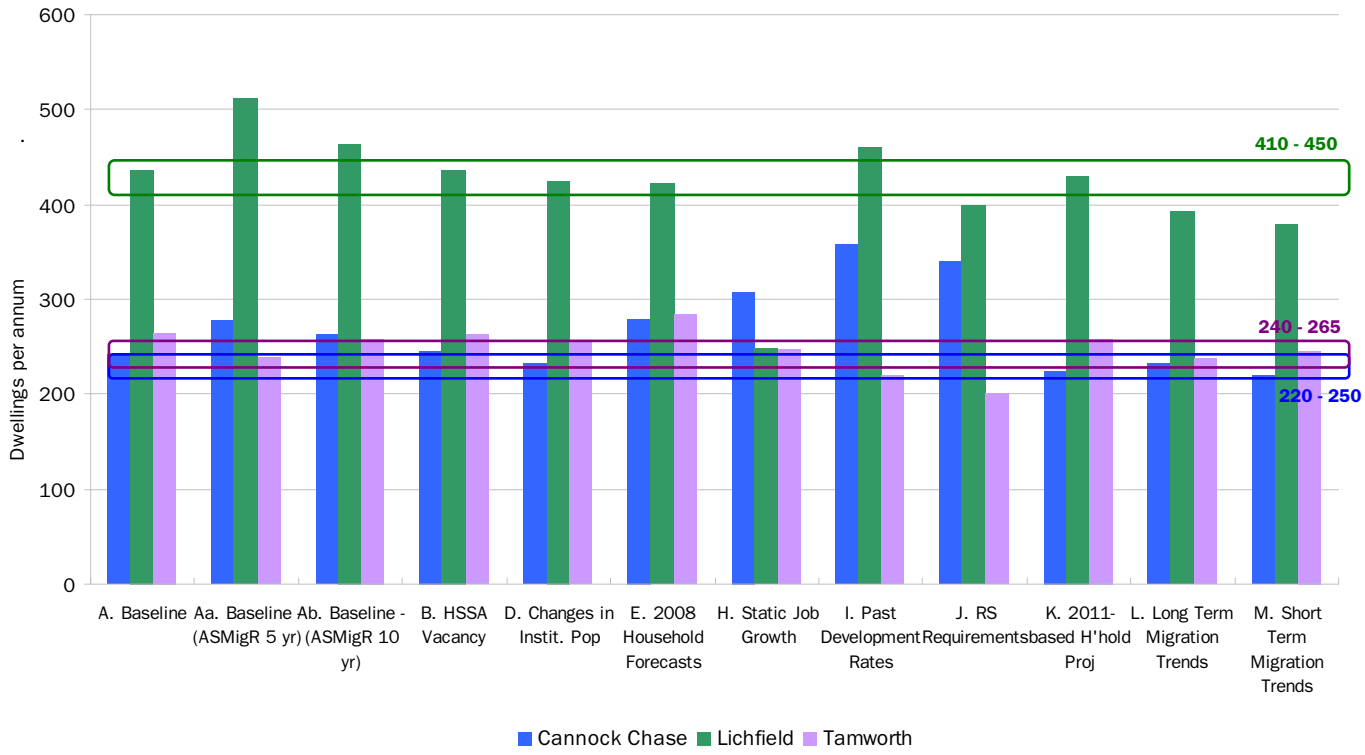
3.0 Conclusions

3.1 Figure 3.1 demonstrates the extent to which the updated migration statistics underpinning Scenarios L and M compare with the previously modelled scenarios (excluding the less realistic/unsustainable projections) and the (updated) recommended range for each of the three districts. It is re-iterated that the previous HEaDROOM report sought to balance the various economic, social and environmental sustainability criterion to inform a suitable housing requirement for each of the three districts, which is beyond the scope of this Addendum.

Figure 3.1 Summary of Retained Scenarios, including 2011-based CLG Household Projections



Source: NLP Analysis of PopGroup Outputs

3.2 As can be seen in Figure 3.1, the more recent estimates of migration trends demonstrate lower levels of housing requirement, associated with lower levels of net in-migration, in **Lichfield**. The figures of 393 dpa and 379 dpa for Scenarios L and M respectively are both below the recommended range of 410-450 dpa. This lends further weight towards justifying a figure towards the lower end of this range.

3.3 The **Cannock Chase** migration scenario figures of 233 dpa (K) and 220 dpa (L) sit either side of the 2011-based household projection scenario of 224 dpa. Furthermore, they are significantly below the original range of 250-280 dpa, which was subsequently reduced to 220-250 dpa in the 2013 HEaDROOM

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update. The latest migration statistics therefore add further validity to the reduction in housing requirement, particularly towards the lower end of this revised range.

3.4 The migration trend scenario figures of 237 dpa (K) and 246 dpa (L) for **Tamworth** are both lower than both the previous PopGroup Baseline (264 dpa) and the latest household projections (259 dpa for Scenario K). The latest scenarios suggest a figure towards the lower end of the recommended range of 240-265 dpa.

3.5 For **south-east Staffordshire** as a whole, the migration-led scenarios both lend further weight towards the need for a lower range of housing requirements than was originally set out in the 2011 HEaDROOM report (900-995 dpa). As such, they suggest that for the HMA as a whole, a range of 870-965 dpa (as set out in the 2013 Housing Needs Study Update) and particularly the lower end of that range, would be appropriate for the area moving forward to 2028.

3.6 The overall 903 dpa figure that the three Councils are currently planning to provide to meet the needs of residents in their respective (emerging) Local Plans sits within this range.

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Appendix 1 HEaDROOM Modelling Results

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Population Estimates and Forecasts

10-Year Migration Trends

Components of Population Change

Cannock Chase

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*	*2033*	*2034*
Births																								
Male	636	636	639	634	628	620	611	604	597	590	582	573	565	557	549	542	537	534	531	529	528	529	530	532
Female	605	606	608	604	598	590	582	575	569	562	554	546	538	530	523	517	512	508	505	504	503	504	505	507
All Births	1,241	1,242	1,247	1,239	1,227	1,210	1,192	1,179	1,166	1,151	1,136	1,118	1,103	1,087	1,073	1,059	1,049	1,042	1,036	1,033	1,032	1,032	1,035	1,039
TFR	2.03	2.03	2.03	2.01	1.99	1.96	1.94	1.92	1.91	1.90	1.89	1.88	1.87	1.86	1.85	1.84	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83
Births input																								
Deaths																								
Male	441	437	431	437	444	445	447	450	456	461	466	470	475	479	484	491	498	505	511	518	524	530	532	536
Female	451	443	434	439	443	440	440	440	443	448	450	453	457	461	467	473	480	486	492	498	505	512	518	525
All deaths	892	880	864	876	887	885	887	891	899	909	916	924	932	940	952	964	978	992	1,003	1,016	1,029	1,041	1,050	1,060
SMR: males	115.7	111.3	106.2	104.5	102.8	99.9	97.2	94.8	93.0	91.2	89.3	87.5	85.8	84.2	82.6	81.5	80.2	79.3	78.1	77.2	76.2	75.3	73.8	72.7
SMR: females	114.2	109.8	105.4	104.3	102.6	99.9	97.5	95.3	93.4	92.0	89.8	87.9	86.2	84.5	83.3	81.8	80.5	79.2	77.9	76.7	76.0	74.9	73.8	72.8
SMR: male & female	115.0	110.5	105.8	104.4	102.7	99.9	97.4	95.0	93.2	91.6	89.6	87.7	86.0	84.3	83.0	81.6	80.4	79.3	78.0	76.9	76.1	75.1	73.8	72.8
Expectation of life	79.9	80.2	80.5	80.7	80.8	81.0	81.2	81.4	81.5	81.7	81.8	82.0	82.1	82.3	82.4	82.5	82.6	82.7	82.8	82.9	83.0	83.1	83.2	83.3
Deaths input																								
In-migration from the UK																								
Male	1,560	1,594	1,625	1,629	1,659	1,666	1,675	1,681	1,688	1,695	1,676	1,648	1,650	1,650	1,650	1,649	1,648	1,645	1,643	1,641	1,639	1,637	1,635	1,634
Female	1,651	1,677	1,707	1,710	1,734	1,738	1,740	1,743	1,744	1,747	1,724	1,690	1,688	1,688	1,688	1,689	1,690	1,693	1,695	1,697	1,699	1,701	1,703	1,704
All	3,211	3,270	3,332	3,340	3,393	3,404	3,415	3,424	3,432	3,441	3,400	3,338	3,338	3,338	3,338	3,338	3,338	3,338	3,338	3,338	3,338	3,338	3,338	3,338
SMigR: males	30.9	31.5	32.1	32.1	32.7	32.8	33.1	33.3	33.6	33.8	33.5	33.1	33.2	33.2	33.3	33.3	33.3	33.3	33.2	33.2	33.1	33.0	32.9	32.8
SMigR: females	32.3	32.8	33.4	33.5	34.0	34.1	34.3	34.5	34.7	34.9	34.6	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.0	34.0	34.0	33.9
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Out-migration to the UK																								
Male	1,636	1,636	1,661	1,663	1,681	1,675	1,676	1,672	1,667	1,669	1,690	1,626	1,624	1,621	1,618	1,619	1,619	1,621	1,619	1,615	1,614	1,612	1,613	1,612
Female	1,687	1,693	1,707	1,697	1,726	1,721	1,709	1,704	1,701	1,690	1,710	1,643	1,645	1,648	1,651	1,650	1,650	1,648	1,650	1,654	1,655	1,657	1,656	1,657
All	3,323	3,330	3,368	3,360	3,407	3,396	3,385	3,376	3,368	3,359	3,400	3,269	3,269	3,269	3,269	3,269	3,269	3,269	3,269	3,269	3,269	3,269	3,269	3,269
SMigR: males	32.4	32.4	32.8	32.8	33.1	33.0	33.1	33.1	33.1	33.3	33.8	32.6	32.7	32.7	32.7	32.7	32.7	32.8	32.7	32.6	32.5	32.5	32.4	32.4
SMigR: females	33.0	33.1	33.4	33.3	33.8	33.8	33.7	33.7	33.8	33.8	34.3	33.1	33.2	33.3	33.3	33.3	33.3	33.2	33.2	33.2	33.2	33.1	33.0	33.0
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
In-migration from Overseas																								
Male	66	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
Female	59	47	47	47	47	47	47	47	47	47	47	48	48	48	48	48	48	48	48	48	48	48	48	48
All	125	100	100	100	100	100	100	100	100	100	100	101	101	101	101	101	101	101	101	101	101	101	101	101
SMigR: males	18.9	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.2	15.3	15.4	15.7	15.8	15.9	16.0	16.0	16.1	16.1	16.1	16.1	16.1	16.1	16.0	16.0
SMigR: females	16.9	13.5	13.5	13.5	13.5	13.6	13.7	13.7	13.8	13.9	14.0	14.2	14.4	14.5	14.6	14.6	14.7	14.7	14.7	14.7	14.6	14.6	14.6	14.6
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Out-migration to Overseas																								
Male	48	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56
Female	37	44	44	44	44	44	44	44	44	44	44	43	43	43	43	43	43	43	43	43	43	43	43	43
All	85	100	100	100	100	100	100	100	100	100	100	99	99	99	99	99	99	99	99	99	99	99	99	99
SMigR: males	13.7	16.1	16.1	16.0	16.0	16.0	16.1	16.1	16.2	16.3	16.4	16.4	16.5	16.6	16.7	16.7	16.8	16.8	16.8	16.8	16.8	16.7	16.7	16.7
SMigR: females	10.6	12.5	12.5	12.5	12.6	12.6	12.7	12.7	12.8	12.9	13.0	13.0	13.1	13.2	13.2	13.3	13.3	13.4	13.4	13.4	13.3	13.3	13.3	13.3
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Migration - Net Flows																								
UK	-111	-59	-35	-21	-14	+8	+30	+49	+64	+82	0	+69	+69	+69	+69	+69	+69	+69	+69	+69	+69	+69	+69	+69
Overseas	+40	0	0	+0	0	0	0	0	0	0	0	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2	+2
Summary of population change																								
Natural change	+349	+362	+383	+362	+340	+325	+306	+288	+267	+242	+220	+195	+171	+147	+121	+95	+72	+50	+33	+17	+2	-9	-14	-21
Net migration	-71	-59	-35	-21	-14	+8	+30	+49	+64	+82	0	+71	+71	+71	+71	+71	+71	+71	+71	+71	+71	+71	+71	+71
Net change	+277	+303	+348	+342	+326	+332	+336	+337	+331	+324	+220	+266	+242	+218	+192	+166	+143	+121	+104	+88	+73	+62	+57	+50

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*	*2034*	*2035*
0-4	5,815	5,840	5,866	5,912	5,990	6,037	6,015	5,972	5,913	5,850	5,785	5,717	5,655	5,590	5,522	5,452	5,379	5,312	5,252	5,201	5,161	5,134	5,118	5,111	5,114
5-10	6,501	6,591	6,723	6,836	6,831	6,915	6,935	6,979	7,022	7,073	7,147	7,179	7,147	7,096	7,028	6,954	6,881	6,806	6,730	6,652	6,570	6,488	6,405	6,331	6,266
11-15	6,028	5,820	5,545	5,389	5,370	5,327	5,437	5,564	5,692	5,730	5,794	5,771	5,820	5,865	5,928	6,016	6,070	6,052	6,012	5,954	5,890	5,826	5,766	5,705	5,641
16-17	2,581	2,504	2,592	2,517	2,355	2,260	2,186	2,120	2,095	2,180	2,201	2,257	2,355	2,352	2,352	2,310	2,306	2,387	2,450	2,463	2,463	2,447	2,421	2,391	2,364
18-59Female, 64Male	57,756	57,701	57,619	57,594	57,598	57,565	57,524	57,426	57,194	57,069	56,900	56,631	56,351	56,100	55,907	55,618	55,353	55,026	54,699	54,452	54,214	54,041	53,887	53,739	53,740
60/65 -74	12,094	12,410	12,619	12,826	13,043	13,270	13,372	13,392	13,517	13,485	13,576	13,548	13,646	13,862	14,006	14,325	14,634	14,947	15,248	15,578	15,893	16,114	16,298	16,359	16,360
75-84	4,987	5,106	5,224	5,388	5,556	5,625	5,774	6,048	6,331	6,629	6,824	7,207	7,462	7,667	7,868	8,045	8,126	8,161	8,222	8,210	8,237	8,144	8,137	8,267	8,293
85+	1,820	1,887	1,974	2,049	2,109	2,179	2,267	2,344	2,419	2,498	2,612	2,750	2,890	3,034	3,172	3,255	3,393	3,593	3,792	4,002	4,167	4,478	4,700	4,885	5,061
Total	97,582	97,859	98,163	98,510	98,852	99,178	99,510	99,846	100,183	100,514	100,838	101,059	101,324	101,566	101,784	101,976	102,142	102,284	102,406	102,510	102,597	102,671	102,733	102,789	102,839
Population impact of constraint																									
Number of persons	+2,402	-79	-59	+65	+79	-14	+8	+30	+49	+64	+82														
Households																									
Number of Households	40,704	40,951	41,141	41,390	41,611	41,859	42,111	42,330	42,572	42,806	43,022	43,228	43,447	43,670	43,881	44,111	44,350	44,556	44,784	44,963	45,160	45,318	45,452	45,589	45,680
Change over previous year	+1,083	+247	+190	+249	+221	+248	+252	+218	+243	+233	+216	+206	+220	+222	+211	+231	+239	+206	+228	+179	+198	+158	+134	+137	+91
Number of supply units	41,920	42,174	42,370	42,626	42,853	43,109	43,369	43,594	43,844	44,084	44,307	44,519	44,745	44,974	45,191	45,429	45,675	45,886	46,121	46,306	46,509	46,672	46,810	46,951	47,045
Change over previous year	+1,116	+254	+196	+256	+227	+256	+260	+225	+250	+240	+223	+212	+226	+229	+217	+238	+246	+212	+235	+185	+204	+162	+138	+141	+94
Labour Force																									
Number of Labour Force	49,331	49,341	49,406	49,257	49,203	49,153	49,070	48,964	48,877	48,793	48,686	48,512	48,364	48,166	48,006	47,833	47,665	47,516	47,367	47,264	47,147	47,082	47,016	46,926	46,850
Change over previous year	+1,483	+10	+65	-149	-54	-50	-83	-106	-87	-85	-106	-174	-148	-198	-160	-173	-168	-150	-149	-102	-118	-65	-66	-90	-75
Number of supply units	35,356	36,026	36,074	35,965	35,968	35,974	35,955	35,919	35,897	35,835	35,757	35,629	35,520	35,375	35,257	35,131	35,007	34,897	34,788	34,713	34,626	34,579	34,530	34,464	34,409
Change over previous year	+269	+670	+47	-109	+3	+6	-19	-36	-22	-62	-78	-128	-109	-145	-118	-127	-123	-110	-110	-75	-87	-48	-48	-66	-55

Population Estimates and Forecasts

10-Year Migration Trends

Components of Population Change

Lichfield

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*	*2033*	*2034*
Births																								
Male	546	544	544	539	542	538	534	533	533	532	530	528	522	517	510	503	498	493	490	487	485	484	483	485
Female	520	518	518	513	516	513	509	508	507	507	505	503	498	492	486	479	474	470	466	464	462	461	460	462
All Births	1,066	1,063	1,062	1,052	1,059	1,051	1,044	1,041	1,040	1,039	1,035	1,030	1,020	1,009	996	983	972	963	956	951	947	944	944	946
TFR	2.01	2.00	1.99	1.96	1.96	1.93	1.91	1.89	1.88	1.87	1.86	1.85	1.84	1.84	1.83	1.82	1.82	1.82	1.82	1.82	1.82	1.81	1.81	1.81
Births input																								
Deaths																								
Male	480	492	497	506	515	525	536	545	555	566	577	587	596	606	617	628	640	650	661	671	681	690	699	707
Female	538	540	542	546	550	556	560	567	574	584	592	604	611	622	630	641	653	668	681	694	707	723	736	747
All deaths	1,018	1,032	1,039	1,053	1,065	1,081	1,096	1,112	1,130	1,151	1,169	1,191	1,207	1,227	1,247	1,269	1,293	1,318	1,341	1,365	1,389	1,413	1,435	1,454
SMR: males	101.1	99.5	97.0	95.0	93.1	91.3	89.6	87.7	86.1	84.6	83.1	81.7	80.3	79.0	78.0	77.1	76.2	75.2	74.4	73.7	73.1	72.3	71.6	71.0
SMR: females	110.9	108.6	106.0	103.9	101.3	99.4	97.1	95.2	93.2	91.7	89.6	88.3	86.4	85.2	83.6	82.4	81.3	80.5	79.5	78.8	78.0	77.5	76.9	76.0
SMR: male & female	106.1	104.1	101.5	99.4	97.1	95.3	93.3	91.4	89.6	88.0	86.3	84.9	83.3	82.0	80.7	79.7	78.7	77.8	76.9	76.2	75.5	74.9	74.2	73.5
Expectation of life	81.0	81.1	81.3	81.5	81.7	81.9	82.0	82.2	82.4	82.5	82.7	82.8	82.9	83.1	83.2	83.3	83.4	83.5	83.6	83.7	83.7	83.8	83.9	84.0
Deaths input																								
In-migration from the UK																								
Male	1,933	2,430	2,436	2,448	2,449	2,477	2,484	2,493	2,521	2,526	2,527	2,355	2,359	2,361	2,361	2,362	2,360	2,358	2,358	2,356	2,352	2,348	2,346	2,345
Female	2,151	2,695	2,705	2,712	2,710	2,739	2,743	2,751	2,779	2,781	2,773	2,580	2,576	2,574	2,574	2,573	2,575	2,577	2,577	2,579	2,583	2,587	2,589	2,590
All	4,084	5,125	5,141	5,160	5,159	5,216	5,227	5,244	5,300	5,307	5,300	4,935	4,935	4,935	4,935	4,935	4,935	4,935	4,935	4,935	4,935	4,935	4,935	4,935
SMigR: males	39.4	49.4	49.4	49.5	49.4	49.8	49.9	50.0	50.5	50.6	50.5	46.9	47.0	47.0	46.9	46.8	46.7	46.6	46.4	46.2	46.0	45.7	45.5	45.4
SMigR: females	45.1	56.5	56.7	56.8	56.5	57.0	56.9	57.0	57.4	57.3	56.9	52.8	52.7	52.5	52.4	52.3	52.2	52.0	51.7	51.5	51.3	51.2	51.0	50.9
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Out-migration to the UK																								
Male	1,690	2,144	2,146	2,148	2,143	2,164	2,157	2,152	2,171	2,167	2,165	2,077	2,079	2,077	2,072	2,083	2,079	2,074	2,068	2,072	2,073	2,070	2,068	2,066
Female	1,846	2,331	2,313	2,292	2,298	2,320	2,316	2,305	2,329	2,326	2,335	2,238	2,236	2,238	2,243	2,232	2,236	2,241	2,247	2,243	2,242	2,245	2,247	2,249
All	3,536	4,475	4,459	4,440	4,441	4,484	4,473	4,456	4,500	4,493	4,500	4,315	4,315	4,315	4,315	4,315	4,315	4,315	4,315	4,315	4,315	4,315	4,315	4,315
SMigR: males	34.5	43.6	43.5	43.4	43.2	43.6	43.3	43.2	43.5	43.4	43.3	41.4	41.4	41.3	41.2	41.3	41.1	41.0	40.7	40.6	40.5	40.3	40.1	40.0
SMigR: females	38.7	48.9	48.5	48.0	47.9	48.3	48.1	47.8	48.1	47.9	47.9	45.8	45.7	45.7	45.6	45.4	45.3	45.2	45.1	44.8	44.6	44.4	44.3	44.2
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
In-migration from Overseas																								
Male	152	160	160	160	160	160	160	160	160	160	159	117	117	117	117	117	117	117	117	117	117	117	117	117
Female	133	140	140	140	140	140	140	140	140	140	141	103	103	103	103	103	103	103	103	103	103	103	103	103
All	285	300	300	300	300	300	300	300	300	300	300	220	220	220	220	220	220	220	220	220	220	220	220	220
SMigR: males	45.9	47.9	47.7	47.5	47.6	47.6	47.6	47.7	47.8	47.9	47.9	35.2	35.4	35.5	35.7	35.7	35.7	35.6	35.6	35.5	35.4	35.2	35.1	34.9
SMigR: females	42.5	44.5	44.3	44.2	44.1	44.1	44.2	44.2	44.3	44.3	44.4	32.7	32.8	33.0	33.1	33.2	33.3	33.3	33.2	33.1	33.0	32.9	32.8	32.7
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Out-migration to Overseas																								
Male	75	111	111	111	111	111	111	111	111	111	111	76	76	76	76	76	76	76	76	76	76	76	76	76
Female	60	89	89	89	89	89	89	89	89	89	89	62	62	62	62	62	62	62	62	62	62	62	62	62
All	135	200	200	200	200	200	200	200	200	200	200	138	138	138	138	138	138	138	138	138	138	138	138	138
SMigR: males	22.6	33.3	33.1	33.0	33.0	33.0	33.1	33.2	33.2	33.3	33.3	23.0	23.1	23.2	23.3	23.3	23.3	23.3	23.2	23.2	23.1	23.0	22.9	22.8
SMigR: females	19.2	28.3	28.1	28.1	28.0	28.0	28.0	28.1	28.1	28.1	28.2	19.5	19.6	19.7	19.8	19.9	19.9	19.9	19.9	19.8	19.8	19.7	19.6	19.5
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Migration - Net Flows																								
UK	+548	+650	+681	+720	+719	+731	+753	+787	+800	+814	+800	+620	+620	+620	+620	+620	+620	+620	+620	+620	+620	+620	+620	+620
Overseas	+150	+100	+100	+100	+100	+100	+100	+100	+100	+100	+100	+82	+82	+82	+82	+82	+82	+82	+82	+82	+82	+82	+82	+82
Summary of population change																								
Natural change	+48	+31	+23	-1	-6	-30	-52	-71	-90	-112	-134	-161	-187	-219	-251	-286	-321	-354	-385	-415	-442	-469	-491	-508
Net migration	+698	+750	+781	+820	+819	+831	+853	+887	+900	+914	+900	+702	+702	+702	+702	+702	+702	+702	+702	+702	+702	+702	+702	+702
Net change	+746	+781	+804	+819	+813	+801	+801	+816	+810	+802	+766	+541	+515	+483	+451	+416	+381	+348	+317	+287	+260	+233	+211	+194

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*	*2034*	*2035*
0-4	5,285	5,336	5,431	5,517	5,623	5,646	5,641	5,625	5,603	5,588	5,566	5,550	5,522	5,489	5,445	5,393	5,333	5,271	5,210	5,156	5,110	5,075	5,048	5,029	5,020
5-10	6,457	6,593	6,704	6,805	6,818	6,994	7,098	7,177	7,284	7,377	7,500	7,529	7,495	7,448	7,401	7,357	7,302	7,253	7,205	7,152	7,086	7,012	6,935	6,857	6,785
11-15	5,846	5,811	5,695	5,620	5,638	5,642	5,742	5,894	5,998	6,047	6,134	6,215	6,299	6,405	6,507	6,623	6,656	6,632	6,588	6,537	6,495	6,443	6,400	6,360	6,315
16-17	2,507	2,410	2,415	2,458	2,409	2,325	2,270	2,248	2,254	2,342	2,347	2,386	2,506	2,518	2,507	2,489	2,550	2,674	2,718	2,722	2,709	2,699	2,682	2,648	2,623
18-59Female, 64Male	56,550	56,446	56,374	56,314	56,489	56,610	56,809	56,857	56,948	57,044	57,085	57,128	56,967	56,902	56,822	56,634	56,451	56,298	56,158	56,054	55,989	55,945	55,962	55,988	56,036
60/65 -74	15,842	16,266	16,642	16,904	17,059	17,220	17,130	17,087	16,969	16,832	16,899	16,653	16,544	16,616	16,805	17,086	17,460	17,705	18,010	18,376	18,644	18,914	19,042	19,165	19,257
75-84	6,123	6,403	6,726	7,083	7,353	7,612	8,029	8,452	8,953	9,409	9,759	10,380	10,843	11,074	11,243	11,390	11,343	11,318	11,259	11,128	11,138	10,856	10,744	10,764	10,819
85+	2,301	2,392	2,451	2,542	2,673	2,825	2,956	3,136	3,283	3,463	3,614	3,829	4,035	4,273	4,480	4,687	4,981	5,307	5,658	5,998	6,239	6,724	7,089	7,302	7,453
Total	100,911	101,657	102,438	103,242	104,061	104,874	105,675	106,476	107,292	108,103	108,905	109,670	110,212	110,726	111,210	111,661	112,076	112,457	112,805	113,122	113,409	113,669	113,902	114,113	114,308
Population impact of constraint																									
Number of persons	+960	+1,666	+50	+81	+120	+119	+31	+53	+87	+0	+14														
Households																									
Number of Households	41,324	41,733	42,157	42,578	43,029	43,439	43,840	44,209	44,596	44,984	45,368	45,821	46,204	46,559	46,894	47,241	47,528	47,797	48,051	48,265	48,482	48,663	48,840	49,038	49,196
Change over previous year	+279	+409	+424	+421	+451	+410	+401	+369	+386	+389	+384	+453	+382	+355	+335	+347	+287	+270	+253	+215	+217	+181	+177	+198	+158
Number of supply units	42,646	43,068	43,506	43,940	44,406	44,829	45,243	45,624	46,022	46,423	46,819	47,287	47,682	48,049	48,394	48,752	49,048	49,326	49,588	49,809	50,033	50,220	50,403	50,607	50,770
Change over previous year	+288	+422	+438	+434	+465	+423	+414	+381	+399	+401	+396	+468	+395	+367	+345	+359	+296	+278	+261	+221	+224	+187	+183	+204	+163
Labour Force																									
Number of Labour Force	49,038	49,083	49,206	49,210	49,345	49,428	49,523	49,602	49,745	49,869	49,941	50,040	49,993	49,947	49,886	49,825	49,780	49,790	49,781	49,749	49,749	49,775	49,808	49,812	49,823
Change over previous year	+992	+45	+123	+4	+135	+82	+95	+79	+143	+124	+72	+99	-47	-45	-61	-61	-45	+10	-9	-32	+1	+25	+33	+4	+11
Number of supply units	41,783	42,356	42,462	42,466	42,601	42,690	42,790	42,876	43,018	43,125	43,187	43,273	43,232	43,193	43,140	43,087	43,048	43,057	43,049	43,021	43,022	43,043	43,072	43,076	43,085
Change over previous year	+452	+573	+106	+3	+135	+89	+100	+86	+142	+107	+62	+85	-40	-39	-53	-53	-39	+9	-8	-28	+0	+22	+29	+4	+10

Population Estimates and Forecasts

10-Year Migration Trends

Components of Population Change — Tamworth

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*	*2033*	*2034*
Births																								
Male	553	562	563	557	552	549	544	539	536	532	527	522	513	505	497	489	483	478	475	472	471	470	470	472
Female	526	535	536	531	526	523	518	514	510	506	502	497	489	481	473	466	460	456	452	450	448	448	448	449
All Births	1,079	1,097	1,098	1,088	1,079	1,072	1,062	1,053	1,046	1,038	1,030	1,018	1,002	985	970	955	944	934	927	922	919	918	918	921
TFR	2.13	2.16	2.15	2.12	2.09	2.07	2.05	2.03	2.02	2.01	2.00	1.98	1.97	1.96	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.94	1.93	1.93
Births input																								
Deaths																								
Male	266	271	276	278	288	292	298	303	308	315	320	325	327	332	336	341	345	350	356	360	364	368	372	376
Female	312	311	312	308	313	314	315	318	322	327	331	337	339	343	349	354	359	365	372	379	385	390	398	404
All deaths	578	582	588	586	601	607	613	622	630	642	651	661	667	675	685	695	704	715	728	740	749	758	770	780
SMR: males	98.7	95.8	93.1	89.7	88.5	86.0	84.2	82.0	80.0	78.4	76.7	75.0	73.0	71.6	70.1	68.8	67.3	66.1	65.2	64.1	63.0	61.9	60.9	59.9
SMR: females	111.6	108.9	106.3	102.6	101.6	99.3	96.6	94.8	92.9	91.4	89.6	88.0	85.8	84.2	82.9	81.5	80.3	79.0	78.1	77.2	76.1	75.1	74.5	73.6
SMR: male & female	105.3	102.4	99.7	96.0	94.9	92.4	90.1	88.1	86.1	84.5	82.7	81.1	79.0	77.5	76.1	74.7	73.3	72.1	71.2	70.2	69.1	68.1	67.2	66.3
Expectation of life	80.4	80.6	80.9	81.1	81.2	81.4	81.6	81.8	81.9	82.1	82.3	82.4	82.6	82.7	82.8	82.9	83.0	83.2	83.2	83.3	83.4	83.5	83.6	83.7
Deaths input																								
In-migration from the UK																								
Male	1,459	1,352	1,382	1,388	1,390	1,447	1,452	1,480	1,483	1,487	1,468	1,339	1,339	1,340	1,339	1,339	1,339	1,339	1,338	1,338	1,338	1,336	1,335	1,335
Female	1,566	1,449	1,477	1,477	1,476	1,523	1,523	1,548	1,549	1,550	1,532	1,395	1,395	1,394	1,395	1,395	1,395	1,395	1,396	1,396	1,396	1,398	1,399	1,399
All	3,025	2,801	2,859	2,865	2,865	2,971	2,976	3,028	3,032	3,037	3,000	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734	2,734
SMigR: males	36.2	33.5	34.1	34.1	34.0	35.3	35.4	36.0	36.0	36.2	35.7	32.5	32.6	32.8	32.8	32.9	32.9	32.9	32.9	32.8	32.7	32.7	32.6	32.5
SMigR: females	37.8	34.8	35.4	35.4	35.2	36.3	36.3	36.9	36.9	37.0	36.6	33.3	33.5	33.5	33.6	33.6	33.6	33.6	33.6	33.6	33.5	33.4	33.4	33.3
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Out-migration to the UK																								
Male	1,572	1,440	1,464	1,465	1,462	1,458	1,456	1,479	1,478	1,475	1,494	1,469	1,471	1,470	1,468	1,469	1,467	1,470	1,468	1,466	1,464	1,463	1,462	1,461
Female	1,591	1,460	1,479	1,472	1,474	1,473	1,470	1,495	1,492	1,491	1,506	1,481	1,479	1,480	1,482	1,481	1,483	1,480	1,482	1,484	1,486	1,487	1,488	1,489
All	3,163	2,900	2,943	2,938	2,936	2,931	2,926	2,974	2,970	2,965	3,000	2,950	2,950	2,950	2,950	2,950	2,950	2,950	2,950	2,950	2,950	2,950	2,950	2,950
SMigR: males	39.0	35.6	36.1	36.0	35.8	35.6	35.5	36.0	35.9	35.9	36.3	35.7	35.9	36.0	36.0	36.0	36.0	36.1	36.0	35.9	35.8	35.8	35.7	35.6
SMigR: females	38.5	35.1	35.5	35.2	35.1	35.1	35.0	35.6	35.5	35.5	35.9	35.4	35.5	35.6	35.7	35.7	35.7	35.7	35.7	35.7	35.6	35.5	35.5	35.5
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
In-migration from Overseas																								
Male	124	108	109	109	109	109	109	109	109	110	110	87	87	87	88	88	88	88	88	88	88	88	88	88
Female	105	92	91	91	91	91	91	91	91	90	90	72	72	72	71	71	71	71	71	71	71	71	71	71
All	229	200	200	200	200	200	200	200	200	200	200	159	159	159	159	159	159	159	159	159	159	159	159	159
SMigR: males	44.2	38.6	38.5	38.5	38.4	38.4	38.5	38.5	38.6	38.7	38.9	31.0	31.3	31.6	31.8	31.9	32.0	32.1	32.1	32.1	32.0	32.0	31.9	31.8
SMigR: females	36.8	31.9	31.7	31.6	31.5	31.4	31.4	31.3	31.3	31.4	31.5	25.1	25.4	25.6	25.8	25.9	26.0	26.1	26.1	26.1	26.1	26.1	26.0	26.0
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Out-migration to Overseas																								
Male	60	57	57	57	57	114	114	115	115	115	115	65	65	66	66	66	66	66	66	66	66	66	66	66
Female	45	43	43	43	43	86	86	85	85	85	85	49	49	48	48	48	48	48	48	48	48	48	48	48
All	105	100	100	100	100	200	200	200	200	200	200	114	114	114	114	114	114	114	114	114	114	114	114	114
SMigR: males	21.4	20.3	20.3	20.2	20.2	40.3	40.3	40.4	40.5	40.6	40.7	23.3	23.5	23.7	23.8	23.9	24.0	24.0	24.0	24.0	24.0	23.9	23.9	23.8
SMigR: females	15.8	14.9	14.9	14.8	14.8	29.6	29.6	29.5	29.5	29.6	29.7	17.0	17.2	17.3	17.5	17.6	17.7	17.7	17.7	17.7	17.7	17.7	17.7	17.6
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Migration - Net Flows																								
UK	-138	-99	-84	-73	-71	+39	+49	+55	+62	+72	0	-216	-216	-216	-216	-216	-216	-216	-216	-216	-216	-216	-216	-216
Overseas	+124	+100	+100	+100	+100	0	0	0	0	0	0	+45	+45	+45	+45	+45	+45	+45	+45	+45	+45	+45	+45	+45
Summary of population change																								
Natural change	+501	+515	+511	+501	+478	+466	+449	+431	+416	+396	+378	+357	+335	+310	+285	+260	+240	+219	+199	+183	+170	+159	+148	+141
Net migration	-14	+1	+16	+27	+29	+39	+49	+55	+62	+72	0	-171	-171	-171	-171	-171	-171	-171	-171	-171	-171	-171	-171	-171
Net change	+487	+516	+527	+528	+507	+505	+498	+486	+478	+468	+378	+186	+164	+139	+114	+89	+69	+48	+28	+12	-1	-12	-23	-30

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*	*2034*	*2035*
0-4	5,074	5,178	5,215	5,275	5,352	5,424	5,424	5,396	5,357	5,321	5,285	5,245	5,187	5,124	5,056	4,984	4,909	4,836	4,770	4,712	4,666	4,631	4,605	4,590	4,583
5-10	5,460	5,486	5,686	5,859	5,879	5,968	6,103	6,223	6,274	6,331	6,404	6,471	6,450	6,402	6,344	6,286	6,226	6,159	6,087	6,011	5,931	5,847	5,762	5,682	5,611
11-15	4,830	4,804	4,593	4,470	4,526	4,503	4,506	4,619	4,796	4,845	4,935	5,003	5,098	5,141	5,196	5,265	5,328	5,320	5,283	5,236	5,189	5,140	5,088	5,034	4,975
16-17	1,975	1,920	2,003	2,019	1,889	1,844	1,845	1,765	1,699	1,820	1,869	1,837	1,888	1,985	2,040	2,004	1,979	2,042	2,122	2,138	2,128	2,110	2,095	2,077	2,055
18-59Female, 64Male	45,726	45,631	45,502	45,402	45,486	45,488	45,438	45,380	45,330	45,205	45,092	45,047	44,798	44,600	44,370	44,196	44,047	43,855	43,632	43,465	43,289	43,179	43,019	42,938	42,909
60/65 -74	9,165	9,533	9,880	10,156	10,351	10,559	10,750	10,872	10,938	11,020	11,095	10,970	10,908	10,877	10,957	11,072	11,163	11,248	11,354	11,509	11,669	11,758	11,889	11,946	11,893
75-84	3,467	3,578	3,696	3,851	4,013	4,113	4,257	4,452	4,730	4,972	5,197	5,584	5,905	6,143	6,327	6,492	6,618	6,707	6,772	6,803	6,838	6,758	6,706	6,681	6,742
85+	1,198	1,253	1,324	1,393	1,458	1,561	1,642	1,757	1,826	1,913	2,019	2,117	2,224	2,352	2,473	2,578	2,696	2,867	3,062	3,237	3,413	3,699	3,945	4,139	4,288
Total	76,895	77,382	77,899	78,425	78,953	79,460	79,965	80,464	80,950	81,428	81,895	82,274	82,460	82,624	82,763	82,877	82,966	83,035	83,083	83,111	83,122	83,121	83,110	83,087	83,057
Population impact of constraint																									
Number of persons	+57	-452	+1	-84	-73	-71	+139	+149	+55	+62	+72														
Households																									
Number of Households	31,651	31,890	32,170	32,423	32,677	32,927	33,176	33,431	33,664	33,901	34,127	34,423	34,657	34,888	35,065	35,255	35,430	35,590	35,761	35,883	35,998	36,115	36,229	36,325	36,394
Change over previous year	+38	+239	+280	+253	+254	+250	+249	+255	+233	+237	+226	+296	+234	+231	+177	+190	+175	+160	+171	+123	+114	+117	+115	+95	+69
Number of supply units	32,429	32,674	32,961	33,221	33,481	33,737	33,992	34,253	34,492	34,735	34,966	35,269	35,509	35,746	35,927	36,122	36,301	36,465	36,640	36,766	36,883	37,003	37,120	37,218	37,288
Change over previous year	+39	+245	+287	+259	+260	+256	+255	+261	+239	+243	+232	+303	+240	+237	+182	+194	+179	+164	+175	+126	+117	+120	+118	+97	+71
Labour Force																									
Number of Labour Force	35,725	35,739	35,780	35,699	35,696	35,706	35,703	35,666	35,708	35,718	35,687	35,626	35,496	35,377	35,220	35,058	34,961	34,851	34,788	34,712	34,616	34,578	34,535	34,469	34,404
Change over previous year	+94	+13	+41	-80	-3	+9	-3	-36	+42	+9	-30	-62	-130	-119	-157	-162	-97	-110	-63	-76	-97	-37	-43	-67	-64
Number of supply units	28,059	28,598	28,631	28,567	28,618	28,679	28,730	28,754	28,840	28,848	28,824	28,774	28,669	28,573	28,446	28,316	28,237	28,148	28,097	28,036	27,958	27,928	27,893	27,839	27,788
Change over previous year	-50	+540	+33	-64	+51	+61	+51	+24	+87	+8	-24	-50	-105	-96	-127	-131	-79	-89	-51	-61	-78	-30	-35	-54	-52

Population Estimates and Forecasts

5-Year Migration Trends

Components of Population Change

Cannock Chase

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*	*2033*	*2034*
Births																								
Male	636	636	639	634	628	620	611	604	597	590	582	573	564	555	546	538	532	527	523	520	519	518	519	520
Female	605	606	608	604	598	590	582	575	569	562	554	546	537	528	520	512	507	502	498	496	494	494	494	495
All Births	1,241	1,242	1,247	1,239	1,227	1,210	1,192	1,179	1,166	1,151	1,136	1,118	1,100	1,083	1,066	1,050	1,038	1,029	1,021	1,016	1,013	1,012	1,013	1,016
TFR	2.03	2.03	2.03	2.01	1.99	1.96	1.94	1.92	1.91	1.90	1.89	1.88	1.87	1.86	1.85	1.84	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83
Births input																								
Deaths																								
Male	441	437	431	437	444	445	447	450	456	461	466	470	475	479	483	490	496	504	510	516	522	527	529	533
Female	451	443	434	439	443	440	440	440	443	448	450	453	457	460	467	472	479	485	490	496	503	509	515	521
All deaths	892	880	864	876	887	885	887	891	899	909	916	924	932	939	950	962	975	989	1,000	1,012	1,024	1,036	1,044	1,054
SMR: males	115.7	111.3	106.2	104.5	102.8	99.9	97.2	94.8	93.0	91.2	89.3	87.5	85.8	84.2	82.6	81.5	80.2	79.3	78.1	77.2	76.2	75.3	73.8	72.7
SMR: females	114.2	109.8	105.4	104.3	102.6	99.9	97.5	95.3	93.4	92.0	89.8	87.9	86.2	84.5	83.3	81.8	80.5	79.2	77.9	76.7	76.0	74.9	73.8	72.8
SMR: male & female	115.0	110.5	105.8	104.4	102.7	99.9	97.4	95.0	93.2	91.6	89.6	87.7	86.0	84.3	83.0	81.6	80.4	79.3	78.0	76.9	76.1	75.1	73.8	72.8
Expectation of life	79.9	80.2	80.5	80.7	80.8	81.0	81.2	81.4	81.5	81.7	81.8	82.0	82.1	82.3	82.4	82.5	82.6	82.7	82.8	82.9	83.0	83.1	83.2	83.3
Deaths input																								
In-migration from the UK																								
Male	1,560	1,594	1,625	1,629	1,659	1,666	1,675	1,681	1,688	1,695	1,676	1,602	1,604	1,604	1,604	1,604	1,603	1,601	1,599	1,597	1,595	1,593	1,591	1,590
Female	1,651	1,677	1,707	1,710	1,734	1,738	1,740	1,743	1,744	1,747	1,724	1,643	1,641	1,641	1,641	1,641	1,642	1,644	1,646	1,648	1,650	1,652	1,654	1,655
All	3,211	3,270	3,332	3,340	3,393	3,404	3,415	3,424	3,432	3,441	3,400	3,245	3,245	3,245	3,245	3,245	3,245	3,245	3,245	3,245	3,245	3,245	3,245	3,245
SMigR: males	30.9	31.5	32.1	32.1	32.7	32.8	33.1	33.3	33.6	33.8	33.5	32.1	32.3	32.4	32.5	32.6	32.6	32.6	32.6	32.6	32.5	32.5	32.4	32.4
SMigR: females	32.3	32.8	33.4	33.5	34.0	34.1	34.3	34.5	34.7	34.9	34.6	33.1	33.2	33.2	33.3	33.3	33.4	33.5	33.5	33.5	33.5	33.5	33.5	33.5
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Out-migration to the UK																								
Male	1,636	1,636	1,661	1,663	1,681	1,675	1,676	1,672	1,667	1,669	1,690	1,633	1,631	1,629	1,625	1,626	1,626	1,628	1,626	1,623	1,622	1,620	1,621	1,620
Female	1,687	1,693	1,707	1,697	1,726	1,721	1,709	1,704	1,701	1,690	1,710	1,650	1,652	1,654	1,658	1,657	1,657	1,655	1,657	1,660	1,661	1,663	1,662	1,663
All	3,323	3,330	3,368	3,360	3,407	3,396	3,385	3,376	3,368	3,359	3,400	3,283	3,283	3,283	3,283	3,283	3,283	3,283	3,283	3,283	3,283	3,283	3,283	3,283
SMigR: males	32.4	32.4	32.8	32.8	33.1	33.0	33.1	33.1	33.1	33.3	33.8	32.8	32.9	32.9	32.9	33.0	33.1	33.2	33.2	33.1	33.1	33.0	33.0	33.0
SMigR: females	33.0	33.1	33.4	33.3	33.8	33.8	33.7	33.7	33.8	33.8	34.3	33.3	33.4	33.5	33.6	33.6	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
In-migration from Overseas																								
Male	66	53	53	53	53	53	53	53	53	53	53	62	62	62	62	62	62	62	62	62	62	62	62	62
Female	59	47	47	47	47	47	47	47	47	47	47	56	56	56	56	56	56	56	56	56	56	56	56	56
All	125	100	100	100	100	100	100	100	100	100	100	118	118	118	118	118	118	118	118	118	118	118	118	118
SMigR: males	18.9	15.1	15.1	15.1	15.1	15.1	15.1	15.1	15.2	15.3	15.4	18.4	18.5	18.6	18.7	18.8	18.9	19.0	19.0	19.0	19.0	19.0	19.0	19.0
SMigR: females	16.9	13.5	13.5	13.5	13.5	13.6	13.7	13.7	13.8	13.9	14.0	16.6	16.8	17.0	17.1	17.2	17.3	17.3	17.3	17.3	17.4	17.3	17.3	17.3
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Out-migration to Overseas																								
Male	48	56	56	56	56	56	56	56	56	56	56	58	58	58	58	58	58	58	58	58	58	58	58	58
Female	37	44	44	44	44	44	44	44	44	44	44	45	45	45	45	45	45	45	45	45	45	45	45	45
All	85	100	100	100	100	100	100	100	100	100	100	103	103	103	103	103	103	103	103	103	103	103	103	103
SMigR: males	13.7	16.1	16.1	16.0	16.0	16.0	16.1	16.1	16.2	16.3	16.4	17.1	17.2	17.3	17.4	17.5	17.6	17.6	17.6	17.7	17.7	17.7	17.7	17.7
SMigR: females	10.6	12.5	12.5	12.5	12.6	12.6	12.7	12.7	12.8	12.9	13.0	13.5	13.6	13.7	13.8	13.9	14.0	14.0	14.1	14.1	14.1	14.1	14.1	14.0
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Migration - Net Flows																								
UK	-111	-59	-35	-21	-14	+8	+30	+49	+64	+82	0	-38	-38	-38	-38	-38	-38	-38	-38	-38	-38	-38	-38	-38
Overseas	+40	0	0	+0	0	0	0	0	0	0	0	+15	+15	+15	+15	+15	+15	+15	+15	+15	+15	+15	+15	+15
Summary of population change																								
Natural change	+349	+362	+383	+362	+340	+325	+306	+288	+267	+242	+220	+195	+169	+144	+116	+88	+63	+40	+22	+4	-11	-24	-31	-38
Net migration	-71	-59	-35	-21	-14	+8	+30	+49	+64	+82	0	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23	-23
Net change	+277	+303	+348	+342	+326	+332	+336	+337	+331	+324	+220	+172	+146	+121	+93	+65	+40	+17	-1	-19	-34	-47	-54	-61

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*	*2034*	*2035*
0-4	5,815	5,840	5,866	5,912	5,990	6,037	6,015	5,972	5,913	5,850	5,785	5,717	5,647	5,573	5,496	5,416	5,333	5,255	5,185	5,124	5,075	5,038	5,013	4,997	4,991
5-10	6,501	6,591	6,723	6,836	6,831	6,915	6,935	6,979	7,022	7,073	7,147	7,179	7,140	7,082	7,008	6,926	6,844	6,760	6,675	6,586	6,494	6,400	6,306	6,220	6,143
11-15	6,028	5,820	5,545	5,389	5,370	5,327	5,437	5,564	5,692	5,730	5,794	5,771	5,815	5,855	5,913	5,996	6,044	6,021	5,976	5,912	5,843	5,772	5,705	5,637	5,565
16-17	2,581	2,504	2,592	2,517	2,355	2,260	2,186	2,120	2,095	2,180	2,201	2,257	2,354	2,349	2,347	2,304	2,298	2,377	2,437	2,448	2,446	2,428	2,400	2,368	2,339
18-59Female, 64Male	57,756	57,701	57,619	57,594	57,598	57,565	57,524	57,426	57,194	57,069	56,900	56,631	56,286	55,971	55,713	55,360	55,031	54,639	54,246	53,933	53,630	53,390	53,170	52,955	52,888
60/65 -74	12,094	12,410	12,619	12,826	13,043	13,270	13,372	13,392	13,517	13,485	13,576	13,548	13,642	13,854	13,993	14,307	14,611	14,918	15,213	15,535	15,844	16,057	16,233	16,286	16,281
75-84	4,987	5,106	5,224	5,388	5,556	5,625	5,774	6,048	6,331	6,629	6,824	7,207	7,460	7,662	7,861	8,036	8,114	8,147	8,206	8,191	8,217	8,122	8,112	8,240	8,263
85+	1,820	1,887	1,974	2,049	2,109	2,179	2,267	2,344	2,419	2,498	2,612	2,750	2,887	3,029	3,165	3,245	3,381	3,579	3,775	3,982	4,145	4,452	4,672	4,854	5,027
Total	97,582	97,859	98,163	98,510	98,852	99,178	99,510	99,846	100,183	100,514	100,838	101,059	101,230	101,376	101,497	101,590	101,655	101,696	101,713	101,712	101,693	101,658	101,611	101,557	101,496
Population impact of constraint																									
Number of persons	+2,402	-79	-59	+65	+79	-14	+8	+30	+49	+64	+82														
Households																									
Number of Households	40,704	40,951	41,141	41,390	41,611	41,859	42,111	42,330	42,572	42,806	43,022	43,228	43,414	43,602	43,778	43,973	44,174	44,342	44,530	44,670	44,827	44,943	45,035	45,130	45,180
Change over previous year	+1,083	+247	+190	+249	+221	+248	+252	+218	+243	+233	+216	+206	+186	+188	+176	+194	+201	+168	+188	+139	+157	+116	+92	+95	+49
Number of supply units	41,920	42,174	42,370	42,626	42,853	43,109	43,369	43,594	43,844	44,084	44,307	44,519	44,711	44,905	45,086	45,286	45,494	45,666	45,860	46,004	46,165	46,285	46,381	46,478	46,529
Change over previous year	+1,116	+254	+196	+256	+227	+256	+260	+225	+250	+240	+223	+212	+192	+194	+181	+200	+207	+173	+194	+144	+162	+120	+95	+98	+51
Labour Force																									
Number of Labour Force	49,331	49,341	49,406	49,257	49,203	49,153	49,070	48,964	48,877	48,793	48,686	48,512	48,310	48,058	47,844	47,616	47,393	47,189	46,984	46,826	46,652	46,530	46,408	46,260	46,127
Change over previous year	+1,483	+10	+65	-149	-54	-50	-83	-106	-87	-85	-106	-174	-202	-252	-215	-227	-223	-205	-205	-158	-174	-122	-123	-148	-133
Number of supply units	35,356	36,026	36,074	35,965	35,968	35,974	35,955	35,919	35,897	35,835	35,757	35,629	35,481	35,296	35,138	34,971	34,808	34,657	34,507	34,391	34,263	34,174	34,084	33,975	33,878
Change over previous year	+269	+670	+47	-109	+3	+6	-19	-36	-22	-62	-78	-128	-148	-185	-158	-167	-164	-150	-150	-116	-128	-89	-90	-108	-97

Population Estimates and Forecasts

5-Year Migration Trends

Components of Population Change

Lichfield

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*	*2033*	*2034*
Births																								
Male	546	544	544	539	542	538	534	533	533	532	530	528	521	514	507	499	492	487	482	478	475	473	472	472
Female	520	518	518	513	516	513	509	508	507	507	505	503	496	490	483	475	469	463	459	455	452	450	449	449
All Births	1,066	1,063	1,062	1,052	1,059	1,051	1,044	1,041	1,040	1,039	1,035	1,030	1,018	1,004	989	974	961	950	941	933	927	923	921	921
TFR	2.01	2.00	1.99	1.96	1.96	1.93	1.91	1.89	1.88	1.87	1.86	1.85	1.84	1.84	1.83	1.82	1.82	1.82	1.82	1.82	1.82	1.81	1.81	1.81
Births input																								
Deaths																								
Male	480	492	497	506	515	525	536	545	555	566	577	587	596	605	616	627	638	648	658	668	678	687	695	703
Female	538	540	542	546	550	556	560	567	574	584	592	604	610	621	629	639	651	665	677	691	703	718	731	741
All deaths	1,018	1,032	1,039	1,053	1,065	1,081	1,096	1,112	1,130	1,151	1,169	1,191	1,206	1,225	1,244	1,265	1,289	1,312	1,335	1,358	1,381	1,405	1,426	1,444
SMR: males	101.1	99.5	97.0	95.0	93.1	91.3	89.6	87.7	86.1	84.6	83.1	81.7	80.3	79.0	78.0	77.1	76.2	75.2	74.4	73.7	73.1	72.3	71.6	71.0
SMR: females	110.9	108.6	106.0	103.9	101.3	99.4	97.1	95.2	93.2	91.7	89.6	88.3	86.4	85.2	83.6	82.4	81.3	80.5	79.5	78.8	78.0	77.5	76.8	76.0
SMR: male & female	106.1	104.1	101.5	99.4	97.1	95.3	93.3	91.4	89.6	88.0	86.3	84.9	83.3	82.0	80.7	79.7	78.7	77.8	76.9	76.2	75.5	74.9	74.2	73.5
Expectation of life	81.0	81.1	81.3	81.5	81.7	81.9	82.0	82.2	82.4	82.5	82.7	82.8	82.9	83.1	83.2	83.3	83.4	83.5	83.6	83.7	83.7	83.8	83.9	84.0
Deaths input																								
In-migration from the UK																								
Male	1,933	2,430	2,436	2,448	2,449	2,477	2,484	2,493	2,521	2,526	2,527	2,292	2,296	2,299	2,300	2,301	2,299	2,298	2,298	2,296	2,293	2,289	2,288	2,286
Female	2,151	2,695	2,705	2,712	2,710	2,739	2,743	2,751	2,779	2,781	2,773	2,511	2,507	2,504	2,503	2,502	2,504	2,505	2,505	2,507	2,510	2,514	2,515	2,517
All	4,084	5,125	5,141	5,160	5,159	5,216	5,227	5,244	5,300	5,307	5,300	4,803	4,803	4,803	4,803	4,803	4,803	4,803	4,803	4,803	4,803	4,803	4,803	4,803
SMigR: males	39.4	49.4	49.4	49.5	49.4	49.8	49.9	50.0	50.5	50.6	50.5	45.7	45.8	45.9	45.9	45.8	45.8	45.7	45.7	45.5	45.3	45.1	45.0	44.9
SMigR: females	45.1	56.5	56.7	56.8	56.5	57.0	56.9	57.0	57.4	57.3	56.9	51.4	51.3	51.2	51.2	51.2	51.1	51.0	50.8	50.7	50.6	50.5	50.4	50.3
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Out-migration to the UK																								
Male	1,690	2,144	2,146	2,148	2,143	2,164	2,157	2,152	2,171	2,167	2,165	2,070	2,072	2,071	2,066	2,078	2,073	2,069	2,064	2,068	2,069	2,067	2,065	2,063
Female	1,846	2,331	2,313	2,292	2,298	2,320	2,316	2,305	2,329	2,326	2,335	2,231	2,229	2,230	2,235	2,223	2,228	2,232	2,237	2,233	2,232	2,234	2,236	2,238
All	3,536	4,475	4,459	4,440	4,441	4,484	4,473	4,456	4,500	4,493	4,500	4,301	4,301	4,301	4,301	4,301	4,301	4,301	4,301	4,301	4,301	4,301	4,301	4,301
SMigR: males	34.5	43.6	43.5	43.4	43.2	43.6	43.3	43.2	43.5	43.4	43.3	41.2	41.3	41.3	41.2	41.4	41.3	41.2	41.0	41.0	40.9	40.7	40.6	40.5
SMigR: females	38.7	48.9	48.5	48.0	47.9	48.3	48.1	47.8	48.1	47.9	47.9	45.6	45.6	45.6	45.7	45.5	45.5	45.4	45.4	45.1	45.0	44.9	44.8	44.8
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
In-migration from Overseas																								
Male	152	160	160	160	160	160	160	160	160	160	159	135	135	135	135	135	135	135	135	135	136	136	135	136
Female	133	140	140	140	140	140	140	140	140	140	141	119	119	119	119	119	119	119	119	119	118	118	119	118
All	285	300	300	300	300	300	300	300	300	300	300	254	254	254	254	254	254	254	254	254	254	254	254	254
SMigR: males	45.9	47.9	47.7	47.5	47.6	47.6	47.6	47.7	47.8	47.9	47.9	40.6	40.9	41.2	41.4	41.5	41.5	41.6	41.5	41.5	41.4	41.3	41.2	41.1
SMigR: females	42.5	44.5	44.3	44.2	44.1	44.1	44.2	44.2	44.3	44.3	44.4	37.7	38.0	38.2	38.4	38.6	38.7	38.8	38.8	38.7	38.7	38.6	38.5	38.4
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Out-migration to Overseas																								
Male	75	111	111	111	111	111	111	111	111	111	111	90	90	90	90	90	90	90	90	90	90	90	90	90
Female	60	89	89	89	89	89	89	89	89	89	89	73	73	73	73	73	73	73	73	73	73	73	73	73
All	135	200	200	200	200	200	200	200	200	200	200	163	163	163	163	163	163	163	163	163	163	163	163	163
SMigR: males	22.6	33.3	33.1	33.0	33.0	33.0	33.1	33.2	33.2	33.3	33.3	27.2	27.3	27.5	27.6	27.7	27.7	27.7	27.7	27.7	27.6	27.6	27.5	27.4
SMigR: females	19.2	28.3	28.1	28.1	28.0	28.0	28.0	28.1	28.1	28.1	28.2	23.0	23.2	23.4	23.5	23.6	23.7	23.8	23.7	23.7	23.7	23.6	23.6	23.5
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Migration - Net Flows																								
UK	+548	+650	+681	+720	+719	+731	+753	+787	+800	+814	+800	+502	+502	+502	+502	+502	+502	+502	+502	+502	+502	+502	+502	+502
Overseas	+150	+100	+100	+100	+100	+100	+100	+100	+100	+100	+100	+91	+91	+91	+91	+91	+91	+91	+91	+91	+91	+91	+91	+91
Summary of population change																								
Natural change	+48	+31	+23	-1	-6	-30	-52	-71	-90	-112	-134	-161	-189	-221	-255	-292	-328	-363	-395	-425	-454	-482	-505	-523
Net migration	+698	+750	+781	+820	+819	+831	+853	+887	+900	+914	+900	+593	+593	+593	+593	+593	+593	+593	+593	+593	+593	+593	+593	+593
Net change	+746	+781	+804	+819	+813	+801	+801	+816	+810	+802	+766	+432	+404	+372	+338	+301	+265	+230	+198	+168	+139	+111	+88	+70

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*	*2034*	*2035*
0-4	5,285	5,336	5,431	5,517	5,623	5,646	5,641	5,625	5,603	5,588	5,566	5,550	5,513	5,470	5,416	5,354	5,283	5,210	5,138	5,073	5,017	4,972	4,935	4,906	4,886
5-10	6,457	6,593	6,704	6,805	6,818	6,994	7,098	7,177	7,284	7,377	7,500	7,529	7,487	7,432	7,377	7,324	7,260	7,200	7,141	7,077	6,999	6,913	6,823	6,732	6,647
11-15	5,846	5,811	5,695	5,620	5,638	5,642	5,742	5,894	5,998	6,047	6,134	6,215	6,293	6,395	6,491	6,600	6,627	6,597	6,547	6,490	6,441	6,382	6,331	6,283	6,229
16-17	2,507	2,410	2,415	2,458	2,409	2,325	2,270	2,248	2,254	2,342	2,347	2,386	2,505	2,515	2,502	2,483	2,541	2,663	2,704	2,705	2,690	2,678	2,658	2,622	2,594
18-59Female, 64Male	56,550	56,446	56,374	56,314	56,489	56,610	56,809	56,857	56,948	57,044	57,085	57,128	56,898	56,765	56,616	56,359	56,107	55,886	55,677	55,504	55,369	55,255	55,201	55,156	55,131
60/65 -74	15,842	16,266	16,642	16,904	17,059	17,220	17,130	17,087	16,969	16,832	16,899	16,653	16,536	16,600	16,781	17,054	17,419	17,654	17,949	18,305	18,562	18,822	18,940	19,053	19,135
75-84	6,123	6,403	6,726	7,083	7,353	7,612	8,029	8,452	8,953	9,409	9,759	10,380	10,838	11,065	11,229	11,373	11,322	11,293	11,230	11,096	11,103	10,818	10,703	10,718	10,769
85+	2,301	2,392	2,451	2,542	2,673	2,825	2,956	3,136	3,283	3,463	3,614	3,829	4,031	4,265	4,467	4,670	4,959	5,281	5,626	5,962	6,199	6,679	7,039	7,248	7,396
Total	100,911	101,657	102,438	103,242	104,061	104,874	105,675	106,476	107,292	108,103	108,905	109,670	110,103	110,507	110,879	111,216	111,518	111,783	112,013	112,212	112,380	112,519	112,630	112,718	112,788
Population impact of constraint																									
Number of persons	+960	+1,666	+50	+81	+120	+119	+31	+53	+87	+0	+14														
Households																									
Number of Households	41,324	41,733	42,157	42,578	43,029	43,439	43,840	44,209	44,596	44,984	45,368	45,821	46,166	46,483	46,779	47,086	47,331	47,560	47,771	47,944	48,119	48,258	48,393	48,547	48,662
Change over previous year	+279	+409	+424	+421	+451	+410	+401	+369	+386	+389	+384	+453	+345	+317	+295	+307	+246	+228	+212	+173	+175	+139	+135	+154	+115
Number of supply units	42,646	43,068	43,506	43,940	44,406	44,829	45,243	45,624	46,022	46,423	46,819	47,287	47,643	47,971	48,275	48,592	48,846	49,081	49,300	49,478	49,658	49,802	49,941	50,100	50,219
Change over previous year	+288	+422	+438	+434	+465	+423	+414	+381	+399	+401	+396	+468	+356	+327	+305	+317	+253	+235	+218	+179	+180	+143	+139	+159	+118
Labour Force																									
Number of Labour Force	49,038	49,083	49,206	49,210	49,345	49,428	49,523	49,602	49,745	49,869	49,941	50,040	49,934	49,829	49,709	49,589	49,484	49,435	49,366	49,275	49,215	49,180	49,152	49,094	49,044
Change over previous year	+992	+45	+123	+4	+135	+82	+95	+79	+143	+124	+72	+99	-106	-104	-120	-120	-105	-49	-69	-92	-60	-35	-28	-57	-51
Number of supply units	41,783	42,356	42,462	42,466	42,601	42,690	42,790	42,876	43,018	43,125	43,187	43,273	43,181	43,091	42,987	42,883	42,793	42,750	42,691	42,611	42,560	42,529	42,505	42,455	42,411
Change over previous year	+452	+573	+106	+3	+135	+89	+100	+86	+142	+107	+62	+85	-92	-90	-104	-104	-90	-43	-59	-79	-52	-31	-24	-49	-44

Population Estimates and Forecasts

5-Year Migration Trends

Components of Population Change — Tamworth

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*	*2033*	*2034*
Births																								
Male	553	562	563	557	552	549	544	539	536	532	527	522	514	507	499	493	488	484	481	480	479	479	480	482
Female	526	535	536	531	526	523	518	514	510	506	502	497	490	482	476	470	465	461	458	457	456	456	457	459
All Births	1,079	1,097	1,098	1,088	1,079	1,072	1,062	1,053	1,046	1,038	1,030	1,018	1,004	989	975	963	953	945	940	937	935	935	937	941
TFR	2.13	2.16	2.15	2.12	2.09	2.07	2.05	2.03	2.02	2.01	2.00	1.98	1.97	1.96	1.95	1.94	1.94	1.94	1.94	1.94	1.94	1.93	1.93	1.93
Births input																								
Deaths																								
Male	266	271	276	278	288	292	298	303	308	315	320	325	328	332	336	342	345	350	357	361	365	369	373	377
Female	312	311	312	308	313	314	315	318	322	327	331	337	339	343	349	354	360	366	373	380	386	391	399	405
All deaths	578	582	588	586	601	607	613	622	630	642	651	661	667	676	685	696	705	716	730	741	751	760	772	782
SMR: males	98.7	95.8	93.1	89.7	88.5	86.0	84.2	82.0	80.0	78.4	76.7	75.0	73.0	71.6	70.1	68.8	67.3	66.1	65.2	64.1	63.0	61.9	60.9	59.9
SMR: females	111.6	108.9	106.3	102.6	101.6	99.3	96.6	94.8	92.9	91.4	89.6	88.0	85.8	84.2	82.9	81.5	80.3	79.0	78.1	77.2	76.1	75.1	74.5	73.6
SMR: male & female	105.3	102.4	99.7	96.0	94.9	92.4	90.1	88.1	86.1	84.5	82.7	81.1	79.0	77.5	76.1	74.7	73.3	72.1	71.2	70.2	69.1	68.1	67.2	66.3
Expectation of life	80.4	80.6	80.9	81.1	81.2	81.4	81.6	81.8	81.9	82.1	82.3	82.4	82.6	82.7	82.8	82.9	83.0	83.2	83.2	83.3	83.4	83.5	83.6	83.7
Deaths input																								
In-migration from the UK																								
Male	1,459	1,352	1,382	1,388	1,390	1,447	1,452	1,480	1,483	1,487	1,468	1,327	1,327	1,327	1,327	1,327	1,327	1,327	1,326	1,326	1,326	1,325	1,323	1,323
Female	1,566	1,449	1,477	1,477	1,476	1,523	1,523	1,548	1,549	1,550	1,532	1,382	1,382	1,382	1,382	1,382	1,382	1,382	1,383	1,383	1,383	1,384	1,386	1,386
All	3,025	2,801	2,859	2,865	2,865	2,971	2,976	3,028	3,032	3,037	3,000	2,709	2,709	2,709	2,709	2,709	2,709	2,709	2,709	2,709	2,709	2,709	2,709	2,709
SMigR: males	36.2	33.5	34.1	34.1	34.0	35.3	35.4	36.0	36.0	36.2	35.7	32.2	32.3	32.4	32.4	32.4	32.3	32.3	32.3	32.2	32.1	32.0	31.8	31.8
SMigR: females	37.8	34.8	35.4	35.4	35.2	36.3	36.3	36.9	36.9	37.0	36.6	33.0	33.1	33.1	33.1	33.1	33.1	33.1	33.0	32.9	32.8	32.7	32.6	32.5
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Out-migration to the UK																								
Male	1,572	1,440	1,464	1,465	1,462	1,458	1,456	1,479	1,478	1,475	1,494	1,438	1,440	1,438	1,436	1,438	1,436	1,439	1,437	1,435	1,433	1,433	1,432	1,431
Female	1,591	1,460	1,479	1,472	1,474	1,473	1,470	1,495	1,492	1,491	1,506	1,449	1,447	1,449	1,451	1,449	1,451	1,448	1,450	1,452	1,454	1,454	1,455	1,456
All	3,163	2,900	2,943	2,938	2,936	2,931	2,926	2,974	2,970	2,965	3,000	2,887	2,887	2,887	2,887	2,887	2,887	2,887	2,887	2,887	2,887	2,887	2,887	2,887
SMigR: males	39.0	35.6	36.1	36.0	35.8	35.6	35.5	36.0	35.9	35.9	36.3	34.9	35.1	35.1	35.1	35.1	35.0	35.0	34.9	34.8	34.7	34.6	34.4	34.3
SMigR: females	38.5	35.1	35.5	35.2	35.1	35.1	35.0	35.6	35.5	35.5	35.9	34.6	34.7	34.7	34.8	34.7	34.7	34.6	34.6	34.5	34.4	34.3	34.2	34.2
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
In-migration from Overseas																								
Male	124	108	109	109	109	109	109	109	109	110	110	104	104	104	104	104	104	104	104	104	104	104	104	104
Female	105	92	91	91	91	91	91	91	91	90	90	85	85	85	85	85	85	85	85	85	85	85	85	85
All	229	200	200	200	200	200	200	200	200	200	200	189	189	189	189	189	189	189	189	189	189	189	189	189
SMigR: males	44.2	38.6	38.5	38.5	38.4	38.4	38.5	38.5	38.6	38.7	38.9	36.9	37.1	37.4	37.6	37.7	37.8	37.8	37.8	37.7	37.5	37.4	37.3	37.2
SMigR: females	36.8	31.9	31.7	31.6	31.5	31.4	31.4	31.3	31.3	31.4	31.5	29.9	30.1	30.3	30.5	30.6	30.7	30.7	30.7	30.7	30.6	30.5	30.5	30.4
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Out-migration to Overseas																								
Male	60	57	57	57	57	114	114	115	115	115	115	67	67	67	67	67	67	67	67	67	67	67	67	67
Female	45	43	43	43	43	86	86	85	85	85	85	50	50	50	50	50	50	50	50	50	50	50	50	50
All	105	100	100	100	100	200	200	200	200	200	200	117	117	117	117	117	117	117	117	117	117	117	117	117
SMigR: males	21.4	20.3	20.3	20.2	20.2	40.3	40.3	40.4	40.5	40.6	40.7	23.9	24.0	24.2	24.3	24.4	24.4	24.4	24.4	24.3	24.3	24.2	24.1	24.0
SMigR: females	15.8	14.9	14.9	14.8	14.8	29.6	29.6	29.5	29.5	29.6	29.7	17.5	17.6	17.7	17.8	17.9	18.0	18.0	18.0	18.0	17.9	17.9	17.9	17.8
Migrants input	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Migration - Net Flows																								
UK	-138	-99	-84	-73	-71	+39	+49	+55	+62	+72	0	-178	-178	-178	-178	-178	-178	-178	-178	-178	-178	-178	-178	-178
Overseas	+124	+100	+100	+100	+100	0	0	0	0	0	0	+72	+72	+72	+72	+72	+72	+72	+72	+72	+72	+72	+72	+72
Summary of population change																								
Natural change	+501	+515	+511	+501	+478	+466	+449	+431	+416	+396	+378	+357	+337	+313	+290	+267	+248	+229	+210	+195	+184	+175	+165	+158
Net migration	-14	+1	+16	+27	+29	+39	+49	+55	+62	+72	0	-106	-106	-106	-106	-106	-106	-106	-106	-106	-106	-106	-106	-106
Net change	+487	+516	+527	+528	+507	+505	+498	+486	+478	+468	+378	+251	+231	+207	+184	+161	+142	+123	+104	+89	+78	+69	+59	+52

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*	*2034*	*2035*
0-4	5,074	5,178	5,215	5,275	5,352	5,424	5,424	5,396	5,357	5,321	5,285	5,245	5,191	5,133	5,071	5,006	4,939	4,875	4,817	4,768	4,730	4,703	4,686	4,678	4,679
5-10	5,460	5,486	5,686	5,859	5,879	5,968	6,103	6,223	6,274	6,331	6,404	6,471	6,454	6,408	6,354	6,300	6,244	6,182	6,115	6,045	5,972	5,897	5,822	5,752	5,691
11-15	4,830	4,804	4,593	4,470	4,526	4,503	4,506	4,619	4,796	4,845	4,935	5,003	5,100	5,145	5,203	5,275	5,340	5,334	5,300	5,256	5,212	5,166	5,118	5,066	5,012
16-17	1,975	1,920	2,003	2,019	1,889	1,844	1,845	1,765	1,699	1,820	1,869	1,837	1,890	1,987	2,044	2,008	1,984	2,048	2,129	2,146	2,137	2,120	2,106	2,089	2,068
18-59Female, 64Male	45,726	45,631	45,502	45,402	45,486	45,488	45,438	45,380	45,330	45,205	45,092	45,047	44,849	44,703	44,524	44,402	44,305	44,166	43,995	43,880	43,756	43,700	43,592	43,564	43,589
60/65 -74	9,165	9,533	9,880	10,156	10,351	10,559	10,750	10,872	10,938	11,020	11,095	10,970	10,910	10,881	10,963	11,080	11,174	11,261	11,371	11,528	11,692	11,784	11,918	11,979	11,930
75-84	3,467	3,578	3,696	3,851	4,013	4,113	4,257	4,452	4,730	4,972	5,197	5,584	5,906	6,144	6,329	6,495	6,623	6,713	6,779	6,811	6,847	6,768	6,716	6,693	6,755
85+	1,198	1,253	1,324	1,393	1,458	1,561	1,642	1,757	1,826	1,913	2,019	2,117	2,225	2,353	2,475	2,581	2,699	2,871	3,067	3,242	3,420	3,706	3,954	4,150	4,300
Total	76,895	77,382	77,899	78,425	78,953	79,460	79,965	80,464	80,950	81,428	81,895	82,274	82,525	82,756	82,963	83,147	83,308	83,450	83,573	83,677	83,766	83,844	83,913	83,972	84,024
Population impact of constraint																									
Number of persons	+57	-452	+1	-84	-73	-71	+139	+149	+55	+62	+72														
Households																									
Number of Households	31,651	31,890	32,170	32,423	32,677	32,927	33,176	33,431	33,664	33,901	34,127	34,423	34,680	34,934	35,136	35,351	35,551	35,738	35,938	36,090	36,234	36,382	36,528	36,655	36,755
Change over previous year	+38	+239	+280	+253	+254	+250	+249	+255	+233	+237	+226	+296	+257	+255	+202	+215	+201	+187	+200	+152	+144	+148	+146	+127	+101
Number of supply units	32,429	32,674	32,961	33,221	33,481	33,737	33,992	34,253	34,492	34,735	34,966	35,269	35,532	35,793	36,000	36,220	36,425	36,617	36,821	36,977	37,125	37,276	37,426	37,556	37,659
Change over previous year	+39	+245	+287	+259	+260	+256	+255	+261	+239	+243	+232	+303	+263	+261	+207	+220	+205	+191	+205	+156	+148	+151	+150	+130	+103
Labour Force																									
Number of Labour Force	35,725	35,739	35,780	35,699	35,696	35,706	35,703	35,666	35,708	35,718	35,687	35,626	35,534	35,455	35,338	35,216	35,159	35,089	35,068	35,033	34,977	34,981	34,979	34,954	34,931
Change over previous year	+94	+13	+41	-80	-3	+9	-3	-36	+42	+9	-30	-62	-91	-80	-117	-122	-57	-70	-22	-35	-56	+4	-1	-25	-23
Number of supply units	28,059	28,598	28,631	28,567	28,618	28,679	28,730	28,754	28,840	28,848	28,824	28,774	28,700	28,636	28,541	28,443	28,397	28,341	28,323	28,295	28,250	28,253	28,252	28,231	28,213
Change over previous year	-50	+540	+33	-64	+51	+61	+51	+24	+87	+8	-24	-50	-74	-64	-95	-98	-46	-56	-18	-28	-45	+3	-1	-21	-18

Appendix 2 Inputs and Assumptions

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DEMOGRAPHIC	Scenarios L & M: Past Migration Trends
Population	
Baseline Population	A 2010 baseline population is taken from the 2010 Mid-year population estimates for the three south-east Staffordshire districts, split by age cohort and gender. The population for 2011-2021 is constrained to the 2011-based SNPP for the three districts, by age and sex.
Births	Future change assumed in the Total Fertility Rate [TFR] uses the birth projections from the ONS 2010-based Interim SNPP. This in turn is used to derive future projected TFRs through PopGroup.
Deaths	Future change assumed in the SMR uses the death projections from the ONS 2010-based Interim SNPP. This in turn is used to derive future projected SMRs through PopGroup.
Internal Migration	Gross domestic in and out migration flows are adopted based on forecast migration in Cannock Chase District, Lichfield District and Tamworth Borough from the ONS 2010-based SNPP for 2010, and using the 2011-based Interim SNPP for the actual internal migration flows 2011-2021. This is the sum of internal migration (elsewhere in England) and cross-border migration (elsewhere in the UK) (SNPP Table 5). Internal migration includes moves to all other Local Authority areas, including to neighbouring areas (i.e. a move of two streets might be classed as internal migration if it involves a move to another LA area). Beyond 2021, gross domestic internal migration flows are adopted based on average gross past trends for the past 5/10 years.
International Migration	Gross international in and out migration flows are adopted based on forecast migration in Cannock Chase District, Lichfield District and Tamworth Borough from the ONS 2010-based SNPP for 2010, and using the 2011-based Interim SNPP for the actual internal migration flows 2011-2021. Beyond 2021, Gross international migration flows are adopted based on average gross past trends for the past 5/10 years.
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 Cannock Chase, Lichfield and Tamworth in the 2010-based SNPP. These identify a migration rate for each age cohort within each 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 each District (but not the total numbers of migrants).
Housing	
Headship Rates	Headship rates that are specific to Cannock Chase, Lichfield and Tamworth districts and forecast over the period to 2021 were 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 were 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.

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DEMOGRAPHIC	Scenarios L & M: Past Migration Trends
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 to the rate of this from the CLG identified rate.
Vacancy / 2nd 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. This means that more dwellings than households are required to meet needs. The vacancy/second home rate in Lichfield totals 3.1% (estimated using data from the Council Tax Base for Formula Grant Purposes (October 2011), held constant over the forecast period. The equivalent figures for Cannock Chase and Tamworth were 2.9% and 2.4% respectively.
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 the three districts 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 districts 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). In this regard, 1% has been added to the female 60-64 age cohort activity rates in 2011, 2% in 2012, 3% in 2013 and so forth up to 8% in 2018. This 2018 rate has then been held constant across the remainder of the forecasting period. Furthermore, 1% has been added to the Male 65-69 and Female 65-69 age cohorts' economic activity rates in 2019 and 2% in 2020. These 2020 rates were then held constant across the forecasting period.
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). For Cannock Chase District, data from the 2011 APS and 2011 BRES identifies an LF ratio of 1.265 (43,700 employed people ÷ 34,532 jobs in Cannock Chase). For Lichfield District, data from the 2011 APS and 2011 BRES identifies an LF ratio of 1.101 (45,400 employed people ÷ 41,240 jobs in Lichfield). For Tamworth Borough, data from the 2011 APS and 2011 BRES identifies an LF ratio of 1.148 (31,100 employed people ÷ 27,080 jobs in Tamworth). This has not been flexed over the forecasting period with no assumed increase or reduction in net commuting rates.

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DEMOGRAPHIC	Scenarios L & M: Past Migration Trends
Unemployment	To calculate the unemployment rate, NLP took Jan 2011–Dec 2011 NOMIS unemployment figures (9.3% for Cannock Chase, 6.2% for Lichfield and 9.8% for Tamworth) to equate to the 2011 rates, and the Jan 2012-Dec 2012 NOMIS unemployment figures (7.6% for Cannock Chase, 5.0% for Lichfield and 8.1% for Tamworth) to equate to the 2012 rates . NLP kept this figure constant for 2013 and 2014 to reflect initial stabilisation at the current high rate, and then gradually reduced the rate on a linear basis to the 7-year average (06-12) of 7.1% for Cannock Chase, 4.8% for Lichfield and 7.2% for Tamworth over a five year time frame. This figure was then held constant to the end of the forecasting period on the grounds that as the economy grows out of recession unemployment is likely to fall back to a similar rate as seen pre-recession.

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