
CANTERBURY CITY

BRIEFING NOTE ON THE 2014-BASED
HOUSEHOLD AND POPULATION PROJECTIONS

AUGUST 2016

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Authorised By:	SM

Barton Willmore LLP
The Observatory
Southfleet Road
Ebbsfleet
Dartford
DA10 0DF

Tel: (01322) 374660
E-mail: research@bartonwillmore.co.uk

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CONTENTS

	PAGE NO
1.0 INTRODUCTION	01
2.0 2014-BASED SUB NATIONAL POPULATION PROJECTIONS	02
3.0 2014-BASED HOUSEHOLD PROJECTIONS	06
4.0 SUMMARY AND CONCLUSIONS	10

APPENDICES

APPENDIX 1: COMPARISON OF 2012 AND 2014-BASED SNPP BY SINGLE YEAR OF AGE AND GENDER – CANTERBURY DISTRICT

APPENDIX 2: COMPARISON OF INTERNAL OUT-MIGRATION BY SINGLE YEAR OF AGE AND GENDER - CANTERBURY DISTRICT

APPENDIX 3: COMPARISON OF NET MIGRATION BY SINGLE YEAR OF AGE AND GENDER – CANTERBURY DISTRICT

1.0 INTRODUCTION

- 1.1 In June 2015 Barton Willmore undertook a technical review of Canterbury City Council's housing needs evidence base in order to determine whether the emerging Local Plan's housing target of 780 dwellings per annum (2011-2031) would meet the full objectively assessed housing need (OAHN) in the context of the National Planning Policy Framework (NPPF) and the supporting Planning Practice Guidance (PPG) requirements.
- 1.2 Barton Willmore concluded that 780 dwellings per annum did not provide full OAHN. Furthermore, the Council's own housing need evidence base (The Housing Needs Review – Interim report, April 2015) recommended full OAHN for Canterbury was 803 dwellings per annum, which the Local Plan Inspector acknowledged. For this reason, following the Stage 1 hearings of the Examination of the Local Plan in July 2015, the Inspector recommended that full OAHN for Canterbury should be taken to be 800 dwellings per annum (2011-2031).¹
- 1.3 Based on the Council's evidence, OAHN of 800 dwellings per annum is considered to meet both Canterbury's demographic and economic need for housing. At the time the Housing Needs Review was produced the 2012-based CLG household projections were the latest available which projected growth of 610 households (640 dwellings) for Canterbury District over the plan period 2011-2031. However, in order to meet the Council's preferred economic growth scenario (an additional 328 jobs per annum) an uplift to the demographic-led housing need was required. In total, 803 dwellings per annum would be required to support the Council's preferred economic growth scenario.
- 1.4 Since the publication of the Council's evidence base and the Stage 1 hearings, the ONS have published the 2014-based Sub National Population projections (SNPP) and the CLG have published the 2014-based household projections which provide an updated demographic starting point for assessing housing need as required by PPG.
- 1.5 The Inspector for the Local Plan Examination is inviting comments on any implications the latest 2014-based projections may have for the Local Plan. The purpose of this note is therefore to consider what the 2014-based projections show for Canterbury and how they differ from the previous 2012-based projections on which the Council's OAHN of 800 dwellings per annum was based.

¹ Paragraph 26, Inspectors note on the main outcomes of the Stage 1 hearings, 10 August

2.0 2014-BASED SUB NATIONAL POPULATION PROJECTIONS

- 2.1 On the 25 May 2016 the Office for National Statistics (ONS) published the 2014-based Sub National Population Projections (SNPP). The 2014-based SNPP project population growth for each local authority district in England over the 25-year period 2014-2039 based on migration, fertility and mortality trends over the last 5-years (2009-2014). The SNPP do not attempt to predict the impact of future government policies, changing economic circumstances of other factors which might affect demographic behaviour².
- 2.2 The 2014-based SNPP project the population of the Canterbury local authority area to increase by 31,700 people over the 25-year period 2014-2039. This is equivalent to 1,270 additional people per annum.
- 2.3 The 2014-based SNPP replace the previous 2012-based SNPP which projected population growth over the 25-year period 2012-2037 based on trends from the period 2007-2012. For Canterbury, the 2012-based SNPP projected population growth of 20,800 people over the 25-year period which is equivalent to an additional 830 people per annum – significantly lower than the latest 2014-based SNPP. Canterbury City Council's (CCC's) assessment of demographic-led need was informed by the 2012-based SNPP.
- 2.4 Table 2.1 presents projected population growth according to the 2014-based SNPP alongside the previous 2012-based SNPP over the Canterbury Local Plan period (2011-2031).

Table 2.1: Sub National Population Projections – Canterbury

Series	2011	2031	2011-2031 (per annum)
2014-based	150,600	180,300	29,700 (1490)
2012-based	150,600	169,200	18,600 (930)

Source: Office for National Statistics.

Figures have been rounded to the nearest one hundred and may not sum. Per annum figures rounded to the nearest ten and may not sum.

- 2.5 It is evident from Table 2.1 that the latest 2014-based SNPP project significantly higher population growth than the previous 2012-based SNPP, equivalent to a 60% increase.

² Page 2, ONS Statistical bulletin: Sub National Population Projections for England: 2014-based projections, 25 May 2016

2.6 CCC have produced a briefing note on the 2014-based SNPP³ in which they identify that the increase in population growth between the two SNPP series can be attributed to a significant increase in the projected population aged 25-49 years. CCC's view is that this is related to a known issue within the SNPP methodology in underestimating out-migration associated with the district's large student leaver population⁴.

2.7 The Quality and Methodology Information accompanying the release of the 2014-based SNPP states specifically in relation to students:

“Areas with large numbers of students present particular issues in estimating internal out-migration probabilities at ages 20-22. This is partly due to the known issue of students, especially males, delaying re-registering with a GP when they move out of an area at the end of their studies. Particular care should be taken in using or interpreting age distributions in the early 20s for LAs with substantial student populations”⁵

2.8 It is clear from the above statement by ONS that issues in relation to students mainly affect the estimates for those in their 20s and particularly males. The Council's note compares projected population growth by 5-year group over each of the SNPP series respective 25-year periods and doesn't consider gender. Appendix 1 of this report provides a comparison of population growth by single year of age and gender over the Council's Local Plan period (2011-2031).

2.9 Analysis by single year of age and gender has identified that both the 2012-based SNPP and the 2014-based SNPP project an increase in all age groups and gender, except in females within their 20s. This potentially reflects the issues identified by ONS in relation to the estimation of student populations.

2.10 However, given that both the 2012 and 2014-based SNPP present the same pattern of growth, it is not thought that the 2014-based SNPP present any major difference to the 2012-based SNPP which the Council used to inform their demographic assessment of housing need.

2.11 Nonetheless, Barton Willmore has undertaken further interrogation of the 2014-based SNPP components of population change data. Particular focus has been given to the internal out-migration component given this is the component which ONS consider to be most affected in areas with student populations. Table 2.2 compares internal out-migration by gender for those

³ Examination library reference CDLP 16.29.39, Letter dated 14 June 2016 from CCC to the Inspector

⁴ Paragraph 5.2, Examination library reference CDLP 16.29.39, Letter dated 14 June 2016 from CCC to the Inspector

⁵ ONS Information Paper: Quality and Methodology Information for Sub National Population Projections, 27 May 2016

aged 20-29 years from the 2012-based and 2014-based SNPP. Appendix 2 provides the equivalent data for all single years of age.

Table 2.2: Comparison of internal out-migration by gender for those aged 20-29 years

Age (years)	Number of internal out migrants						
	2012-based SNPP (2012-2037)		2014-based SNPP (2014-2039)		Difference		
	Males	Females	Males	Females	Total	Males	Females
20	6,090	9,060	6,580	10,240	1,670	490	1,180
21	11,230	19,090	11,640	19,990	1,300	410	900
22	24,320	39,710	22,360	37,290	-4,380	-1,960	-2,420
23	15,560	16,930	17,390	19,510	4,420	1,830	2,580
24	8,860	7,000	10,070	8,640	2,850	1,210	1,650
25	5,330	4,230	6,100	5,700	2,230	770	1,470
26	3,990	2,840	4,830	3,530	1,530	840	690
27	2,840	2,320	3,820	2,750	1,420	980	440
28	2,740	2,150	3,180	2,480	770	440	330
29	2,480	1,860	3,220	2,270	1,160	750	410

Source: Office for National Statistics.

Figures have been rounded to the nearest ten and may not sum

2.12 It is evident from Table 2.2 that the 2014-based SNPP project a lower outflow of both males and females aged 22 years than the previous 2012-based SNPP. However, the 2014-based SNPP project a higher outflow of both males and females aged 23 and 24 years. It could be possible that the lower outflow of 22 year olds does not represent an underestimate of students migrating out of the district once they have finished university, but rather students are delaying leaving the district until a year or two later. Alternatively, out migrating students are not being captured as soon as they leave. However, the data would indicate that they are being captured a year or two later and therefore not remaining in the resident population, which would result in an over estimation of projected population growth.

2.13 Table 2.3 presents the resulting net number of migrants (both internal and international) to Canterbury by gender for those aged 20-29 years. Appendix 3 provides the equivalent data for all single of year of ages.

Table 2.3: Comparison of net migration by gender for those aged 20-29 years

Age (years)	Number of net migrants								
	2012-based SNPP (2012-2037)			2014-based SNPP (2014-2039)			Difference		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
20	66,370	27,740	38,620	75,090	31,730	43,360	8,720	3,990	4,730
21	15,820	8,540	7,280	17,320	9,960	7,360	1,500	1,420	80
22	-14,540	-4,050	-10,490	-13,880	-3,270	-10,610	660	780	-120
23	-49,560	-17,890	-31,670	-43,010	-14,470	-28,550	6,550	3,430	3,120
24	-20,340	-9,500	-10,840	-23,740	-10,920	-12,820	-3,400	-1,420	-1,980
25	-7,050	-4,420	-2,630	-9,270	-5,230	-4,030	-2,220	-820	-1,400
26	-4,730	-2,790	-1,940	-6,010	-3,050	-2,960	-1,280	-260	-1,020
27	-2,100	-1,510	-590	-2,810	-1,980	-830	-710	-470	-240
28	-180	-150	-30	-1,010	-870	-140	-830	-720	-110
29	-210	-310	100	-540	-460	-80	-330	-150	-180

Source: Office for National Statistics.

Figures have been rounded to the nearest ten and may not sum

- 2.14 Despite the 2014-based SNPP projecting a lower outflow of both males and females aged 22 years old, the resulting net effect is the 2014-based SNPP project a higher outflow of both males and females aged between 22 and 29 years old as shown in Table 2.3.
- 2.15 This analysis indicates that the 2014-based SNPP are not underestimating out-migration of the student population any differently than the 2012-based SNPP, and if anything the 2014-based SNPP are projecting a higher outflow of the student population.
- 2.16 On this basis, it is considered that the 2014-based SNPP do provide a reasonable population projection on which to assess demographic need in Canterbury.

3.0 2014-BASED HOUSEHOLD PROJECTIONS

- 3.1 On the 12 July 2016 the Department for Communities and Local Government (CLG) published the 2014-based household projections. This release projects household growth in local authorities across England over the period 2014-2039. Household growth is projected by applying household formation rates (HFRs) to the ONS 2014-based SNPP discussed in the previous chapter.
- 3.2 The 2014-based household projections project growth of 19,700 households over the 25-year period 2014-2039. This is equivalent to an additional 800 households per annum. Once an allowance for vacancy and second homes is applied (4.09% for Canterbury⁶) this results in growth of 832 dwellings per annum.
- 3.3 The 2014-based household projections replace the previous 2012-based household projections which projected growth of 15,200 households over the 25-year period 2012-2037, equivalent to an additional 610 households per annum – significantly lower than the latest 2014-based household projections.
- 3.4 Table 3.1 presents projected household growth according to the 2014-based household projections alongside the previous 2012-based household projections over the Canterbury Local Plan period (2011-2031).

Table 3.1: Household Projections – Canterbury

Series	2011	2031	2011-2031 (per annum)
2014-based	60,500	76,900	16,400 (820)
2012-based	60,500	72,800	12,300 (610)

Source: CLG

Figures have been rounded to the nearest one hundred and may not sum. Per annum figures rounded to the nearest ten and may not sum.

- 3.5 Over the Canterbury Local Plan period, the 2014-based household projections project growth of 820 households per annum, which is 34% higher than the level of growth projected by the 2012-based household projections. Once an allowance for vacancy and second homes has been applied, the **2014-based household projections project growth of 854 dwellings**

⁶ Source: CLG, CTB 2015 (Second Homes); CLG Live Table 125/615 2015 (Vacant)

per annum for Canterbury (2011-2031). This becomes the new starting point estimate for assessing housing need, according to PPG.

3.6 PPG permits adjustments to the starting point estimate stating:

“The household projections-based estimate of housing need may require adjustment to reflect factors affecting local demography and household formation rates which are not captured in past trends. For example, formation rates may have been suppressed historically by under-supply and worsening affordability of housing.”⁷

3.7 Barton Willmore’s June 2015 Technical Review of Canterbury City Council’s Housing Evidence Base, presented analysis of housing completions in Canterbury which found that completions over the period 2006-2014 have exceeded the South East Plan requirement against which CCC has been monitoring completions. However, completions have been well below the level of need implied by both the CLG household projections current at the time the Council undertook its assessment (the 2008-based household projections) and the 2012-based household projections.

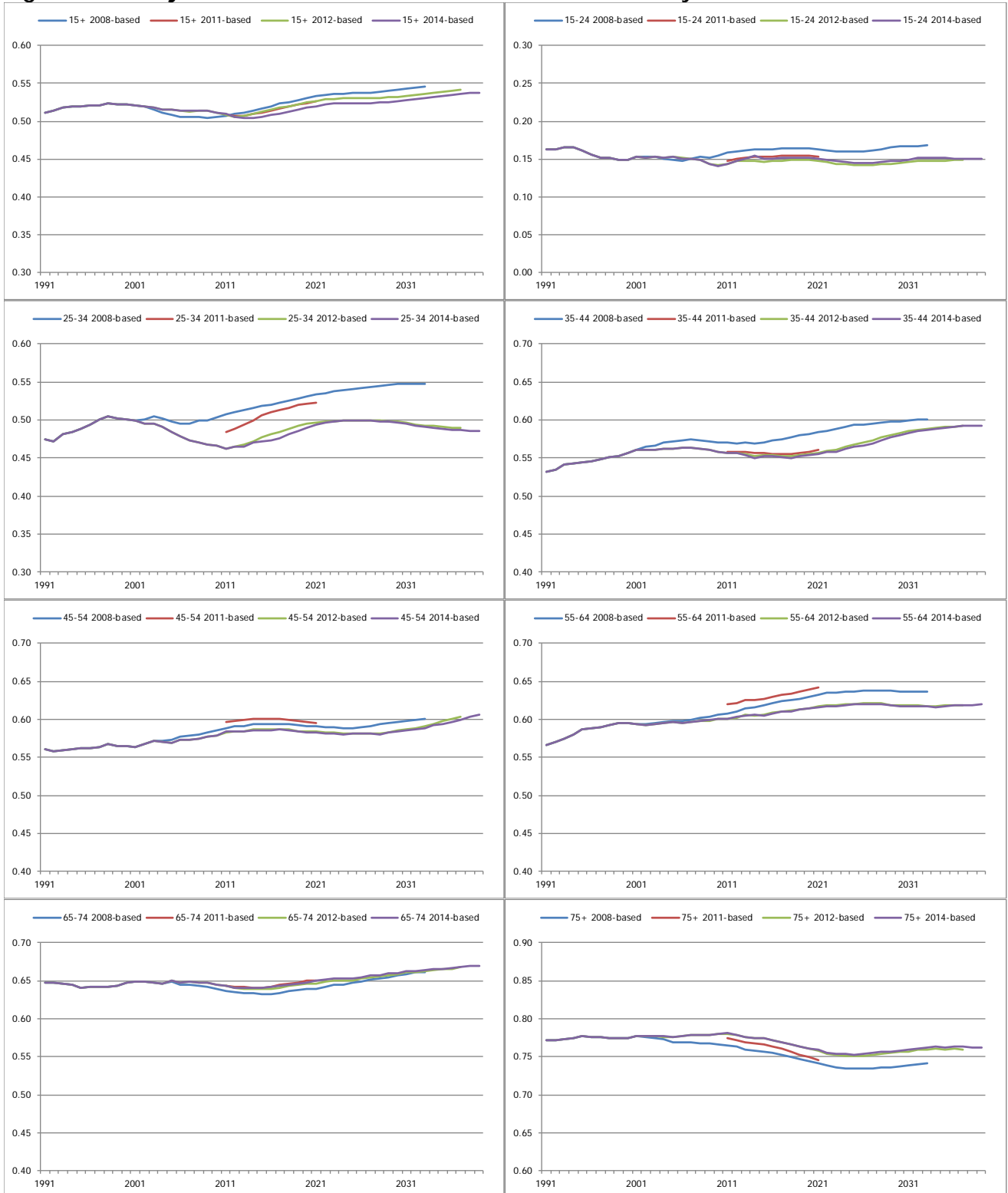
3.8 Furthermore, affordability in Canterbury has worsened by 89% over the period 1997-2013 to a greater extent than the national average (81%).

3.9 Figure 3.1 presents the HFRs for Canterbury across all age groups and by 10-year age band. It is evident from Figure 3.1 that the 2014-based HFRs are very similar to the previous 2012-based HFRS which have been acknowledged by various Local Plan Inspector’s⁸ as suppressing household formation for young people, particularly those aged 25-34 and 35-44 years. The 2014-based HFRs continue to project suppressed household formation for those aged 25-44 years in Canterbury in comparison to the pre-recessionary 2008-based series.

⁷ ID 2a-015-20140306

⁸ Cornwall (June 2015), West Oxfordshire (December 2015) and Arun (February 2016).

Figure 3.1: Projected household formation rates - Canterbury



3.10 Barton Willmore are of the opinion that the 2014-based HFRs require adjustment to address the issue of household suppression. As the Cornwall Local Plan Inspector stated in relation to the 2012-based HFRs:

“The HR 2012 may still embed some recessionary effect. It would be inconsistent with the national policy for growth to project any such effect throughout the plan period. Accordingly, the projections developed as part of this further update should show both the HR 2008 and HR 2012 and the mid-point, blended approach. On the current evidence, I consider that the most robust approach for deriving the housing requirement would be a projection using a blended HR rate”⁹

- 3.11 The constrained CLG 2014-based household projections would not therefore be a prudent basis from which to set a housing target in Local Plan preparation, as it would not be considered to be ‘positively prepared’ in the context of the NPPF (paragraph 182) or to ‘significantly boost’ housing supply.
- 3.12 For this reason, growth of 854 dwellings per annum (2011-2031) as projected by the 2014-based household projections is considered to represent an absolute minimum level of housing need in Canterbury, with housing need increasing above this level if the issue of suppressed household formation amongst younger people is addressed.

⁹ Paragraph 3.8, Cornwall Local Plan Examination, Inspector’s preliminary findings, June 2015)

4.0 SUMMARY AND CONCLUSIONS

- 4.1 This paper has presented the findings of the ONS 2014-based SNPP and CLG 2014-based household projections for Canterbury district. This section concludes by outlining the implications these latest projections have on assessing housing need in Canterbury.
- 4.2 The 2014-based household projections project growth of 820 households per annum, which once an allowance for vacancy and second homes has been applied results in growth of 854 dwellings per annum over the Canterbury Local Plan period (2011-2031).
- 4.3 Growth of 854 dwellings per annum, according to PPG, is the starting point estimate for assessing housing need. However, growth of 854 dwellings per annum is higher than the full Objectively Assessed Housing Need (OAHN) identified in Canterbury City Council's (CCC's) housing needs evidence base and the level of OAHN recommended by the Inspector following the Stage 1 hearings, for 800 dwellings per annum (2011-2031).
- 4.4 Analysis presented in this paper has identified that the high increase in projected household growth according to the 2014-based household projections, is driven by a significant increase in the projected population of Canterbury in the 2014-based SNPP which underpin the household projections. CCC are of the opinion that the 2014-based SNPP do not fully capture the out-migration of students, thereby implying that the 2014-based SNPP overestimate future population growth. For this reason, CCC do not consider the current OAHN of 800 dwellings per annum should be amended.
- 4.5 This paper has interrogated the underlying components of the 2014-based SNPP, in particular focusing on the migration components for those aged 20-29 years. The analysis has found that the 2014-based SNPP do not underestimate out-migration of the student population any differently than the 2012-based SNPP, and if anything the 2014-based SNPP are projecting a higher outflow of the student population.
- 4.6 Analysis of the 2014-based SNPP by single year of age and gender has identified that both the 2012-based SNPP and the 2014-based SNPP project an increase in all age groups and gender, except in females within their 20s. Given that both the 2012 and 2014-based SNPP present the same pattern of growth, it is not thought that the 2014-based SNPP present any major difference to the 2012-based SNPP which the Council used to inform their demographic assessment of housing need.
- 4.7 For this reason, Barton Willmore consider that the 2014-based SNPP do provide a reasonable population projection on which to assess housing need in Canterbury and therefore the current

OAHN of 800 dwellings per annum should be revisited to take account of the revised starting point for assessing housing need.

- 4.8 Analysis of the HFRs underpinning the CLG household projections has identified that the 2014-based HFRs, like the 2012-based HFRS, suppress household formation in comparison to the pre-recessionary 2008-based HFRs particularly for those people aged 25-44 years. Barton Willmore therefore believe that the 2014-based HFRs require adjustment to address this suppression.
- 4.9 Therefore, **growth of 854 dwellings per annum (2011-2031) as indicated by the 2014-based starting point estimate, should be considered a minimum**, with housing need increasing above this to address the issue of suppressed household formation.
- 4.10 CCC do state¹⁰ that concerns about future housing need can be addressed through an early review of the Local Plan. We disagree with this approach and consider that the implications of the 2014-based projections should be addressed through the Stage 2 hearings.

¹⁰ Paragraph 5.4, Examination library reference CDLP 16.29.39, Letter dated 14 June 2016 from CCC to the Inspector

APPENDIX 1:

COMPARISON OF 2012 AND 2014-BASED SNPP GROWTH

BY SINGLE YEAR OF AGE AND GENDER

CANTERBURY DISTRICT

Age (years)	Change in population between 2011-2031						
	2012-based SNPP		2014-based SNPP		Difference in 2014-based SNPP		
	Males	Females	Males	Females	Total	Males	Females
0	-138	-80	-75	-21	122	62	59
1	-56	-100	11	-41	126	66	60
2	-55	-49	9	12	125	64	61
3	-1	-57	64	5	127	64	62
4	-41	1	28	64	131	68	63
5	-53	-25	11	43	132	64	68
6	12	-9	74	57	127	62	65
7	34	63	96	123	123	62	61
8	49	23	109	80	117	60	58
9	93	84	152	140	114	59	55
10	79	122	132	170	102	53	49
11	74	53	121	94	89	47	42
12	54	73	94	106	74	40	34
13	88	28	112	52	47	24	23
14	47	8	61	22	28	14	14
15	49	97	51	106	11	2	10
16	124	86	118	82	-11	-6	-5
17	33	71	14	43	-48	-20	-28
18	44	41	47	12	-26	3	-29
19	339	421	581	708	529	242	287
20	372	427	632	685	517	259	258
21	505	495	777	731	509	273	237
22	249	-153	638	172	715	389	325
23	194	-164	525	71	566	332	235
24	169	-182	450	-11	452	281	171
25	80	-181	329	-52	378	249	129
26	-50	-256	181	-139	348	231	117
27	67	-235	266	-126	308	199	109
28	47	-224	241	-124	294	193	101
29	68	-167	224	-79	244	156	88
30	56	-120	214	-30	247	158	90
31	102	-168	251	-79	237	148	89
32	189	-119	323	-33	220	134	86
33	186	-2	309	84	209	123	86
34	178	-19	297	71	209	119	90
35	167	-16	280	70	198	113	85
36	132	-75	247	7	196	115	82
37	170	-102	275	-13	193	105	89
38	110	-101	207	-10	188	97	91
39	31	-58	163	65	255	132	123
40	7	-102	125	65	285	118	167
41	47	-142	133	-25	203	86	117
42	-5	-122	51	-47	131	56	75
43	-92	-106	-54	-45	98	37	61
44	-111	-101	-88	-55	70	23	47
45	-123	-94	-96	-57	64	27	37
46	-105	-89	-92	-57	44	12	32
47	-105	-74	-78	-37	65	28	38
48	-115	-72	-96	-15	77	19	57
49	-99	-30	-61	3	71	38	33

50	-12	-1	8	46	67	20	47
51	18	20	58	53	72	40	33
52	-1	-51	15	-11	56	17	40
53	-96	-48	-80	-22	43	17	26
54	-40	-12	-15	31	68	24	43
55	-5	-42	4	-7	44	9	35
56	20	52	24	79	30	3	27
57	34	102	48	134	46	14	32
58	62	132	80	150	35	17	18
59	161	154	181	182	49	21	28
60	189	162	200	192	41	11	30
61	132	202	160	233	59	28	31
62	122	127	154	162	67	32	35
63	119	78	146	102	50	27	24
64	-23	-55	-7	-24	48	17	31
65	216	190	232	209	35	16	19
66	314	287	349	317	64	35	29
67	292	243	311	274	50	18	31
68	305	279	334	305	55	29	26
69	348	328	384	353	60	36	25
70	351	362	390	396	74	39	34
71	252	362	292	396	75	40	34
72	221	313	254	338	58	33	25
73	308	267	348	288	62	40	21
74	253	262	285	289	58	31	27
75	224	281	269	282	46	45	1
76	259	261	298	271	50	39	11
77	267	241	286	263	41	19	22
78	333	271	355	286	36	21	15
79	230	222	255	228	31	25	6
80	241	247	281	261	54	40	14
81	286	211	315	217	36	29	7
82	331	264	348	278	31	17	14
83	330	370	348	364	13	18	-5
84	442	445	450	444	7	8	-1
85	274	263	271	260	-6	-3	-3
86	242	199	255	186	-0	13	-13
87	248	184	250	178	-4	2	-7
88	196	142	204	115	-18	8	-26
89	153	123	149	113	-15	-4	-11
90 and over	925	1010	938	857	-139	13	-152

Source: Office for National Statistics

APPENDIX 2:
COMPARISON OF INTERNAL OUT-MIGRATION
BY SINGLE YEAR OF AGE AND GENDER
CANTERBURY DISTRICT

Age (years)	Number of internal out migrants						
	2012-based SNPP (2012-2037)		2014-based SNPP (2014-2039)		Difference		
	Males	Females	Males	Females	Total	Males	Females
0	936	910	740	742	-364	-196	-168
1	1047	939	1131	1043	188	84	104
2	937	818	1052	961	258	115	143
3	693	803	795	837	136	102	34
4	693	613	695	733	122	1	121
5	548	600	700	600	151	152	-1
6	560	495	625	557	126	64	62
7	472	437	515	563	169	43	126
8	571	505	565	541	29	-6	36
9	496	543	484	529	-26	-12	-14
10	451	533	466	564	45	14	31
11	575	436	554	526	70	-20	90
12	669	481	649	546	45	-20	65
13	525	436	575	425	39	50	-11
14	625	533	685	574	102	60	41
15	618	659	645	633	0	26	-26
16	608	574	548	675	42	-59	101
17	926	1041	885	1045	-37	-41	4
18	1484	1523	1451	1583	28	-33	61
19	3005	3220	2964	3081	-181	-42	-139
20	6090	9060	6582	10237	1670	492	1178
21	11229	19094	11638	19989	1304	409	895
22	24320	39713	22358	37293	-4382	-1962	-2420
23	15557	16931	17390	19513	4416	1834	2582
24	8862	6996	10071	8642	2855	1208	1647
25	5335	4231	6103	5696	2234	768	1465
26	3991	2839	4827	3530	1527	836	691
27	2840	2318	3820	2754	1416	980	436
28	2741	2153	3181	2483	770	440	330
29	2477	1860	3223	2269	1156	746	410
30	2315	1753	2828	1899	659	512	146
31	2046	1469	2717	1664	867	672	195
32	2027	1357	2367	1641	624	340	285
33	2013	1180	2126	1351	283	112	170
34	1675	1221	2030	1336	470	355	115
35	1652	1010	1882	1192	413	231	182
36	1313	998	1608	1129	426	295	131
37	1116	859	1485	939	449	369	80
38	1051	789	1356	932	449	306	143
39	1016	674	1289	970	569	272	296
40	960	647	1195	752	340	235	105
41	1022	553	1169	620	215	148	67
42	758	520	860	625	207	102	105
43	660	483	885	610	353	226	127
44	840	535	876	568	68	35	32
45	764	549	880	648	215	116	99
46	693	601	715	599	21	22	-2
47	665	607	783	675	187	118	69
48	604	623	705	615	93	101	-8
49	743	540	752	600	68	9	59

50	676	618	770	682	157	94	63
51	695	614	715	732	138	21	118
52	612	445	733	447	123	121	2
53	496	600	673	652	230	177	52
54	494	635	519	692	83	25	58
55	563	598	585	694	117	22	96
56	468	577	622	701	276	153	123
57	500	580	570	625	116	70	45
58	576	437	595	630	212	19	193
59	563	472	636	631	232	73	159
60	527	594	586	603	68	59	9
61	400	441	424	511	93	23	70
62	391	500	458	620	187	67	120
63	386	466	452	596	195	65	129
64	435	370	471	457	123	36	87
65	430	309	523	462	246	93	153
66	449	432	521	439	80	72	8
67	397	342	468	368	96	71	26
68	474	364	465	430	56	-9	66
69	325	381	375	409	78	49	29
70	406	419	326	517	17	-81	97
71	281	339	355	349	83	73	9
72	366	271	532	372	268	167	101
73	234	162	354	290	248	119	128
74	259	282	272	331	61	13	48
75	219	234	321	260	128	101	26
76	265	362	350	380	103	85	17
77	213	224	242	281	87	29	57
78	188	177	246	224	105	59	47
79	198	316	261	382	128	62	65
80	166	303	139	324	-6	-27	21
81	112	194	176	197	67	64	3
82	115	244	215	243	99	100	-1
83	138	306	185	325	65	46	19
84	103	276	168	308	97	65	32
85	190	239	220	252	43	30	13
86	90	321	154	384	126	64	62
87	103	294	145	308	56	42	15
88	161	258	220	359	160	59	101
89	159	267	199	243	17	41	-24
90 and over	614	1156	735	1227	192	121	71

Source: Office for National Statistics

APPENDIX 3:

COMPARISON OF NET-MIGRATION

BY SINGLE YEAR OF AGE AND GENDER

CANTERBURY DISTRICT

Age (years)	Number of net migrants								
	2012-based SNPP (2012-2037)			2014-based SNPP (2014-2039)			Difference		
	Total	Males	Females	Total	Males	Females	Total	Males	Females
1	532	280	252	486	267	219	-47	-13	-34
2	602	292	310	750	411	339	148	119	29
3	837	408	429	805	340	465	-32	-68	36
4	781	519	262	822	530	292	41	11	30
5	683	352	330	788	450	338	105	97	8
6	758	454	304	741	321	419	-17	-132	115
7	755	350	405	633	304	329	-122	-45	-76
8	748	402	347	692	433	259	-57	31	-88
9	572	272	300	645	322	323	72	50	23
10	563	304	260	725	401	324	162	98	64
11	1,073	634	439	1,041	631	409	-33	-3	-30
12	907	452	455	881	457	424	-27	5	-31
13	810	367	443	811	382	429	1	15	-14
14	957	490	467	936	421	516	-21	-69	48
15	1,165	674	491	1,018	598	420	-146	-76	-70
16	374	207	167	316	75	240	-59	-132	73
17	661	312	349	543	317	226	-119	5	-123
18	677	379	298	767	455	312	90	76	14
19	11,827	4,915	6,912	13,149	5,611	7,538	1,322	696	626
20	66,365	27,743	38,623	75,089	31,734	43,356	8,724	3,991	4,733
21	15,822	8,540	7,282	17,321	9,962	7,359	1,499	1,422	78
22	-14,538	-4,048	-10,490	-13,878	-3,272	-10,606	660	776	-116
23	-49,560	-17,891	-31,669	-43,011	-14,465	-28,546	6,549	3,426	3,123
24	-20,336	-9,498	-10,838	-23,738	-10,923	-12,816	-3,403	-1,425	-1,978
25	-7,047	-4,417	-2,630	-9,268	-5,234	-4,034	-2,221	-817	-1,404
26	-4,733	-2,794	-1,939	-6,009	-3,050	-2,959	-1,276	-256	-1,019
27	-2,101	-1,514	-588	-2,811	-1,983	-827	-709	-470	-239
28	-181	-151	-30	-1,012	-867	-145	-831	-716	-115
29	-206	-306	100	-536	-460	-77	-330	-154	-176
30	209	-51	260	-443	-482	39	-652	-431	-221
31	-615	-492	-122	-934	-865	-69	-319	-373	54
32	-301	-323	22	-838	-849	11	-537	-526	-11
33	-306	-371	65	-642	-644	2	-336	-274	-63
34	-199	-400	201	-239	-479	240	-40	-79	39
35	-53	-93	40	-275	-344	69	-222	-251	29
36	288	-200	488	204	-187	390	-84	14	-98
37	350	53	296	269	15	254	-81	-38	-43
38	496	185	311	374	1	373	-122	-184	62
39	533	168	365	523	150	373	-10	-17	7
40	499	228	271	308	199	108	-191	-29	-162
41	542	282	259	441	136	306	-100	-147	47
42	383	77	306	373	38	335	-10	-39	29
43	624	311	313	605	316	289	-18	5	-24
44	497	230	268	287	118	169	-210	-112	-98
45	257	69	188	351	122	228	94	53	41
46	640	357	283	607	363	244	-33	6	-39
47	486	347	140	649	387	262	163	41	122
48	392	310	83	342	256	86	-51	-54	3
49	503	367	136	565	351	214	62	-16	78
50	312	126	186	446	231	214	134	105	29

51	379	191	188	297	84	213	-83	-107	24
52	300	180	120	358	241	117	58	61	-3
53	465	200	265	437	87	350	-29	-114	85
54	367	248	118	365	176	188	-2	-72	70
55	308	280	28	394	281	113	85	1	84
56	467	211	256	602	318	283	135	107	28
57	608	295	313	623	306	317	16	11	5
58	419	203	216	630	303	327	211	100	111
59	409	81	328	473	196	277	64	115	-51
60	420	96	324	474	167	308	54	71	-17
61	534	337	197	769	399	369	235	63	172
62	822	422	400	1,046	543	503	224	121	103
63	671	387	284	766	426	341	95	38	57
64	639	341	299	712	418	293	72	78	-6
65	693	324	368	773	389	384	81	65	16
66	649	269	379	699	305	394	50	36	15
67	472	246	226	615	320	295	143	75	69
68	463	196	267	652	266	386	189	70	119
69	281	79	202	419	207	212	138	128	10
70	324	166	158	480	250	230	156	84	72
71	149	97	52	413	340	73	265	244	21
72	184	149	35	371	209	163	187	59	128
73	191	44	147	117	-13	130	-74	-57	-17
74	377	131	246	341	122	220	-36	-9	-26
75	181	102	79	263	160	103	82	58	24
76	89	52	37	113	33	79	24	-18	42
77	-38	3	-41	-20	-6	-14	18	-9	27
78	111	59	51	149	101	48	38	41	-4
79	150	53	97	185	77	109	36	24	12
80	5	40	-35	-24	27	-51	-28	-13	-15
81	113	57	57	191	116	75	78	59	19
82	250	92	158	213	59	154	-37	-33	-3
83	176	96	80	126	9	117	-50	-87	37
84	113	57	56	66	33	33	-47	-24	-24
85	179	85	94	134	53	81	-45	-32	-13
86	138	47	91	132	21	111	-6	-26	20
87	157	144	12	72	84	-12	-84	-60	-24
88	152	109	43	191	98	92	39	-10	49
89	122	61	61	39	39	0	-82	-21	-61
90 and over	36	43	-7	132	46	87	97	3	94

Source: Office for National Statistics

