Population and Dwelling Stock Estimates

2001 - 2011



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Growing the right way for a bigger better Peterborough



Population and Dwelling Stock Estimates 2001 - 2011

Peterborough City Council

November 2012

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These population and dwelling stock estimates have been produced for Peterborough City Council by Cambridgeshire County Council under a Service Level Agreement.

1 INTRODUCTION

- 1.1 The information contained in this report summarises the demographic change between 1991 and 2010 at authority, ward and parish level within Peterborough Unitary Authority (PUA). It contains detailed population and dwelling stock estimates, the primary purpose of which is to assist in the planning and delivery of local services. A second report focussing on population forecasts will follow.
- 1.2 Cambridgeshire County Council Research and Performance Team (CCC) has produced the estimates in this report under a service level agreement with Peterborough City Council. The estimates provide an alternative and more detailed source of local population statistics to those produced by the Office for National Statistics (ONS) for central government. For the purpose of comparison, the ONS estimates are also included.
- 1.3 Population and dwelling stock estimates in this document refer to 2004 ward boundaries, which were the base geography for the 2001 and 2011 Censuses. To enable analysis of change over time, mid-1991 estimates have been recalculated on the basis of the 2004 urban wards. Further changes to parish and urban ward boundaries were made under the Peterborough (Parishes) Order 2004. These changes mostly had only a small effect on populations and dwellings; the only major change was the transfer of the northern edge of Parnwell from Eye parish to East Ward in Peterborough.
- 1.4 Pre-1998 figures for Peterborough are set out in existing reports entitled "Cambridgeshire Population and Dwelling Stock Estimates". Information from these reports is available from CCC, Peterborough City Council's Strategic Planning, Housing & Environment Section or from major libraries in Peterborough.
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2 POPULATION ESTIMATES

Peterborough in Context

Peterborough and Neighbouring Authorities 2001-2011

- 2.1 Tables 1 and 2 set out the populations of Peterborough Unitary Authority area and nearby Local Authorities for the period 1991-2011. Peterborough has grown by more than 16% since 1991, to a total population of 182,700 in 2011. Almost all of this growth has taken place since 2001.
- 2.2 Tables 1 and 2 show that, since 1991, Peterborough and its neighbouring local authorities have seen population growth greater than that experienced by England as a whole (11%). Since 1991, growth has been most pronounced in East Cambridgeshire (35%) South Holland (31%), East Northamptonshire (27%), and Fenland districts (26%).
- 2.3 Growth in Peterborough since 2001 has been similar to that experienced in neighbouring areas over the same period. During the 1990s, however, Peterborough's growth was much lower.

Table 1: CCC Population estimates for Peterborough and Cambridgeshire

| Local Authority Area | 1991 | 2001 | 2011 | Change 1991-2011 | Change 2001-2011 |
|----------------------|---------|---------|---------|---------------------|---------------------|
| Peterborough | 157,100 | 157,400 | 182,700 | 16.3% | 16.1% |
| Cambridgeshire | 511,700 | 552,200 | 612,600 | 19.7% | 10.9% |
| Cambridge City | 106,000 | 109,900 | 120,900 | 14.1% | 10.0% |
| East Cambridgeshire | 61,200 | 70,900 | 82,700 | 35.1% | 16.6% |
| Fenland | 75,500 | 83,700 | 95,400 | 26.4% | 14.0% |
| Huntingdonshire | 146,500 | 157,200 | 166,800 | 13.9% | 6.1% |
| South Cambridgeshire | 122,500 | 130,500 | 146,900 | 19.9% | 12.6% |

Source: CCC population estimates for 1991, 2001, & 2011

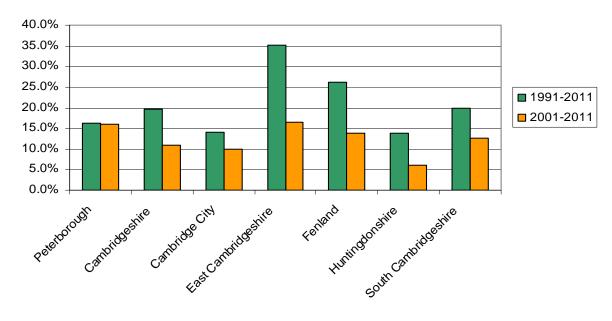
Table 2: ONS population estimates for neighbouring authorities

| Local Authority Area | 1991 | 2001 | 2011 | Change 1991-2011 | Change 2001-2011 |
|------------------------|------------|------------|------------|---------------------|------------------|
| Peterborough | 157,100 | 157,400 | 184,500 | 17.4% | 17.2% |
| Neighbouring Districts | | | | | |
| South Holland | 67,500 | 76,500 | 88,400 | 31.0% | 15.6% |
| South Kesteven | 109,500 | 124,800 | 134,100 | 22.5% | 7.5% |
| Rutland | 33,000 | 34,600 | 37,600 | 13.9% | 8.7% |
| East Northamptonshire | 68,300 | 76,500 | 86,900 | 27.2% | 13.6% |
| Neighbouring Counties | | | | | |
| Lincolnshire | 588,600 | 646,600 | 714,800 | 21.4% | 10.5% |
| Leicestershire | 573,300 | 609,600 | 651,200 | 13.6% | 6.8% |
| Northamptonshire | 584,100 | 629,700 | 694,000 | 18.8% | 10.2% |
| East of England | 5,121,100 | 5,388,200 | 5,862,400 | 14.5% | 8.8% |
| England | 47,875,000 | 49,138,800 | 53,107,200 | 10.9% | 8.1% |

Source: ONS mid-year population estimates

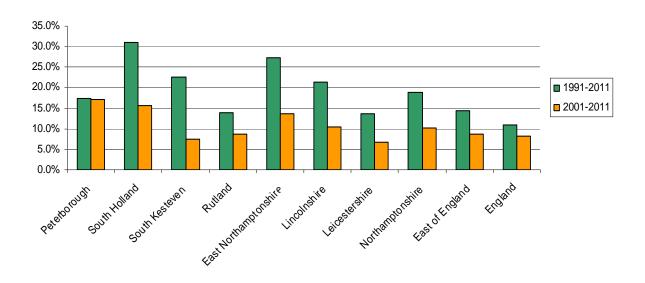
Notes: The East of England Region comprises Bedfordshire, Cambridgeshire, Essex, Hertfordshire, Luton UA, Norfolk, Peterborough UA, Southend-on-Sea UA, Suffolk and Thurrock UA.

Figure 1: Percentage population change 1991-2011, Peterborough and Cambridgeshire



Source: CCC population estimates

Figure 2: Percentage population change 1991-2011, Peterborough and surrounding Local Authorities



Source: ONS mid-year population estimates

Analysis of Population Change in Peterborough since 2001

- 2.4 This section explores the factors contributing to population change in Peterborough since 2001. Population change is driven by two main components: natural change (the balance of births and deaths) and net migration (the balance of the number of people leaving and arriving in an area).
- 2.5 Figure 3 compares the degree to which natural change and net migration have contributed to population growth in Peterborough, based on CCC population estimates. This shows that, up to 2004, natural change was the main driver of population growth, but that migration became more prominent between 2005 and 2007. In 2008 and 2009 natural change seemed to have reasserted its impact, due to a combination of rising births and decreasing net migration. However, in the recent two years net migration has become an increasing component of the population change.

100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0% 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 ■ Natural Change % ■ Migration %

Figure 3: Components of population change 2002-2011

Source: CCC mid-year estimates

2.6 Table 3 shows a steady increase in the total number of births in Peterborough between 2005 and 2009. Although 2010 and 2011 have seen an increase, this has not been as significant. In contrast, total deaths have remained relatively static since 2005. The stable level of mortality and rising number of births lead to increasing positive natural change overall.

Table 3: Births and Deaths in Peterborough 2005-2011

| | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 |
|------------------|-------|-------|-------|-------|-------|-------|-------|
| Number of births | 2,280 | 2,440 | 2,630 | 2,780 | 2,970 | 3,030 | 3,130 |
| Number of deaths | 1,430 | 1,440 | 1,430 | 1,420 | 1,430 | 1,410 | 1,430 |
| Natural change | 850 | 1,000 | 1,200 | 1,360 | 1,540 | 1,620 | 1,700 |

Source: ONS Vital Statistics

- 2.7 There are two elements to migration: internal migration, which refers to movement within the UK, and international migration, which refers to movement between the UK and the rest of the world. CCC methodology does not distinguish between these when calculating net migration. However it is possible to derive a broad breakdown by making use of ONS internal migration data and subtracting the ONS internal migration figure from the total net migration figure estimated by CCC. This gives a remainder that indicates total international net migration for Peterborough.
- 2.8 Table 4 (below) shows the breakdown of migration components produced by this method. According to ONS, between 2002 and 2011 approximately 69,800 people moved in to Peterborough from other parts of the UK, and 79,800 people moved out. This suggests net out-migration from Peterborough of about 10,000 internal (to the UK) migrants. In order to achieve the estimated total net migration figure produced by the CCC, this outflow must be balanced by a net inflow of international migrants of approximately 24,100 over the ten year period. However the figure for net international migration of 5,500 produced by this method for 2011 does look relatively high compared to recent years. It is difficult to know whether this is the true figure as it is

not too different to figures for international net migration in some past years or whether the net internal migration figure is too low.

Table 4: Peterborough: ONS Estimates of Internal and International Migration, 2001-11

| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | Total |
|-------------------------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|-------|--------|
| Internal in- migration (ONS) | 6,900 | 7,400 | 7,200 | 6,900 | 6,500 | 6,900 | 7,100 | 7,000 | 6,900 | 7,000 | 69,800 |
| Internal out- migration (ONS) | 7,500 | 7,400 | 7,900 | 7,700 | 8,500 | 8,800 | 8,100 | 8,000 | 8,200 | 7,700 | 79,800 |
| Net internal migration (ONS) | -600 | 0 | -700 | -800 | -2,000 | -1,900 | -1,000 | -1,000 | -1,300 | -700 | -9,900 |
| Total net migration (CCC) | 100 | 300 | 400 | 1,800 | 2,200 | 1,500 | 500 | 600 | 1,800 | 4,800 | 14,000 |
| International net migration | 700 | 300 | 1,100 | 2,600 | 4,200 | 3,400 | 1,500 | 1,600 | 3,200 | 5,500 | 24,100 |

Source: ONS and CCC mid-year population estimates

Note: Totals may not sum due to rounding.

2.9 Peterborough has seen more significant international in-migration since 2004. This correlates with the expansion of the European Union in 2004 and subsequent perceived rise in migration from the 'A8' nations. This increase is also consistent with trends in National Insurance Number (NINo) registrations in Peterborough by non-UK nationals (see Table 5). Table 4 shows a sharp decline in international net migration between 2007 and 2008 which is continued into 2009. Reduction in numbers may reflect the onset of the global economic crisis, or be accounted for by an increase in international out-migration (rather than reduced international in-migration). However in the period since 2009, international net migration appears to have increased suggesting that international in-migration may have increased and out-migration may have reduced.

Table 5: National Insurance Number registrations in Peterborough 2008- 2011

| | 2007/08 | 2008/09 | 2009/10 | 2010/11 | Total |
|-------------------------|---------|---------|---------|---------|--------|
| European Union | 310 | 420 | 270 | 370 | 1,450 |
| EU Accession States | 3780 | 3,350 | 3,020 | 3,560 | 12,860 |
| Other European | 40 | 30 | 20 | 40 | 110 |
| Africa | 160 | 160 | 130 | 160 | 560 |
| Asia and Middle East | 490 | 550 | 460 | 680 | 2,210 |
| The Americas | 40 | 50 | 30 | 30 | 130 |
| Australasia and Oceania | 20 | 20 | 20 | 20 | 80 |
| Other | 10 | 0 | 10 | 10 | 30 |
| | | | | | |
| Total | 4,850 | 4,570 | 3,960 | 4,860 | 17,410 |

Source: Department for Work and Pensions National Insurance Number registrations data.

ONS Population Estimates

2.10 Recent releases of census estimates are shown in the table below. In November 2011, ONS released indicative population estimates for the period 2006-2010 based on a new methodology for measuring international migration.

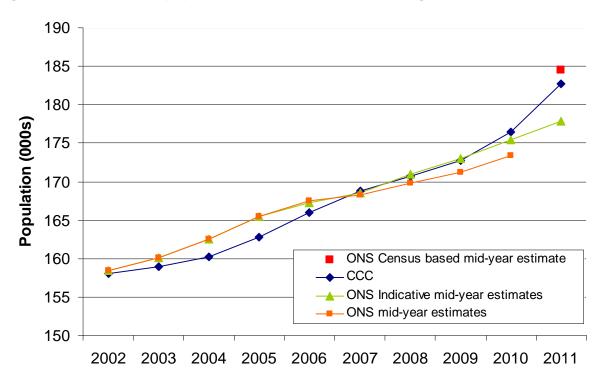
Table 6: Recent and Future Releases of ONS Estimates

| Date of Release | Set of Mid-Year Estimates |
|-----------------|---|
| June 2011 | Mid-2010 |
| November 2011 | Indicative mid-2006 to mid-2010 based on a |
| | new methodology for measuring international |
| | immigration. |
| July 2012 | March 2011 census day |
| July 2012 | March 2011 rolled forward based on 2010 |
| | indicative estimates |
| September 2012 | Mid-2011 based on census estimates |
| March 2013 | Mid-2002 to mid-2010 revised |

- 2.11 Both ONS and CCC population estimates are constructed by assessing change in the population over the course of a year, and adding that change to the previous year's population estimate. Population change is comprised of two major components: natural change, which is the balance of births and deaths in an area, and net-migration, which is the difference between residents leaving and arriving in an area. Net-migration is further subdivided into internal (within the UK) and international migration.
- 2.12 The ONS indicative estimates use a new methodology for measuring international immigration. Previous estimates were largely based on the intentions of people entering the UK revealed by the International Passenger Survey (IPS). The new methodology splits the data from the IPS into different streams. Workers are distributed using National Insurance (NINo) data; students are mainly distributed using Higher Education Statistics Agency (HESA) data, while children and some other migrants are distributed using 'Flag 4' data from the GP patient register.
- 2.13 In the past, the CCC was concerned that the ONS methodology led to an underestimate of net international migration to Peterborough. We recognise that this is an improved methodology and welcome the fact that the ONS estimates are now closer to the ones we produce. However, we have some concerns about the new methodology may still give too low figures for Peterborough as demonstrated by the 2011 Census figures.
- 2.14 Figure 4 (below) shows that for the 2010 estimates, there is a still a discrepancy between the ONS and CCC estimates. The exact source of this is unclear; however it seems that ONS is assuming a more significant drop in net international migration between 2008 and 2010 than is consistent with CCC estimates.
- 2.15 The 2011 Census recorded the population of the number of usual residents on census night as 183,600. The mid-2011 estimate, based on the census figure, was 184,500. Both these figures are higher than the ONS rolled-forward indicative estimates and the CCC estimates for 2011 suggesting that both ONS and CCC were underestimating net migration.

2.16 The CCC estimate for 2011 of 182,700 was 900 lower than the census night population of 183,600. A difference of only 0.5% for estimates over a ten year period confirms that the CCC methodology gives accurate results.

Figure 4: ONS and CCC population estimates for Peterborough 2002-2011



Source: ONS and CCC mid-year estimates

Table 7: Mid-2011 estimates compared

| ONS indicative mid-year estimate: | 177,800 |
|-------------------------------------|---------|
| ONS Census based mid-year estimate: | 184,500 |
| | |
| CCC estimate: | 182,700 |

Population estimates by Ward and Parish

Table 8: Mid-2011 population estimates for rural parishes and urban wards

| Parishes / wards | 1991 | 2001 | 2011 | % change | Area |
|-----------------------------------|---------|---------|---------|----------|------------|
| | | | | 2001-11 | (hectares) |
| Ailsworth | 400 | 420 | 540 | 29% | 636 |
| Bainton | 220 | 310 | 300 | -3% | 703 |
| Barnack | 890 | 870 | 870 | 0% | 1,198 |
| Borough Fen | 130 | 130 | 120 | -8% | 1,167 |
| Castor | 810 | 830 | 790 | -5% | 1,373 |
| Deeping Gate | 440 | 470 | 500 | 6% | 219 |
| Etton | 140 | 160 | 150 | -6% | 531 |
| Eye* | 3,220 | 3,810 | 4,670 | 23% | 1,100 |
| Glinton | 1,650 | 1,770 | 1,700 | -4% | 553 |
| Helpston | 740 | 830 | 890 | 7% | 754 |
| Marholm | 170 | 150 | 130 | -13% | 568 |
| Maxey | 630 | 700 | 690 | -1% | 660 |
| Newborough | 1,320 | 1,390 | 1,520 | 9% | 2,282 |
| Northborough | 1,250 | 1,350 | 1,270 | -6% | 487 |
| Peakirk | 330 | 320 | 380 | 19% | 240 |
| Peterborough (Bretton North) | 10,650 | 9,560 | 9,630 | 1% | 311 |
| Peterborough (Bretton South) | 3,170 | 3,230 | 3,230 | 0% | 102 |
| Peterborough (Central) | 9,200 | 8,830 | 11,870 | 34% | 257 |
| Peterborough (Dogsthorpe) | 9,630 | 8,820 | 9,650 | 9% | 217 |
| Peterborough (East)* | 8,250 | 8,310 | 10,980 | 32% | 1,018 |
| Peterborough (Fletton) | 8,050 | 7,940 | 10,680 | 35% | 270 |
| Peterborough (North) | 4,800 | 5,170 | 6,120 | 18% | 122 |
| Peterborough (Orton Longueville) | 11,060 | 10,500 | 10,580 | 1% | 425 |
| Peterborough (Orton Waterville) | 7,810 | 8,310 | 8,450 | 2% | 675 |
| Peterborough (Orton with Hampton) | 2,540 | 3,540 | 12,600 | 256% | 1,551 |
| Peterborough (Park) | 8,100 | 8,210 | 9,970 | 21% | 203 |
| Peterborough (Paston) | 8,890 | 8,280 | 8,720 | 5% | 321 |
| Peterborough (Ravensthorpe) | 7,320 | 6,880 | 8,010 | 16% | 198 |
| Peterborough (Stanground Central) | 8,170 | 8,650 | 9,030 | 4% | 871 |
| Peterborough (Stanground East) | 1,050 | 3,080 | 3,060 | -1% | 123 |
| Peterborough (Walton) | 5,400 | 5,480 | 5,640 | 3% | 169 |
| Peterborough (Werrington North) | 7,760 | 8,010 | 7,850 | -2% | 295 |
| Peterborough (Werrington South) | 7,500 | 6,730 | 6,690 | -1% | 260 |
| Peterborough (West) | 8,960 | 8,380 | 9,080 | 8% | 590 |
| Peterborough Urban Area | 138,310 | 137,910 | 161,840 | 17% | 7,978 |
| Southorpe | 120 | 140 | 150 | 7% | 761 |
| St Martin's Without | 30 | 40 | 30 | -25% | 360 |
| Sutton | 110 | 130 | 140 | 8% | 372 |
| Thorney | 2,220 | 2,190 | 2,200 | 0% | 8,818 |
| Thornhaugh | 210 | 190 | 170 | -11% | 1,097 |
| Ufford | 250 | 230 | 230 | 0% | 479 |
| Upton | 70 | 60 | 50 | -17% | 491 |
| Wansford | 440 | 450 | 450 | 0% | 158 |
| Wittering (AF) | 2,650 | 2,320 | 2,610 | 13% | 1,100 |
| Wothorpe | 290 | 230 | 310 | 35% | 258 |
| Total Peterborough | 157,100 | 157,400 | 182,660 | 16% | 34,344 |

^{*} Peterborough East no longer includes any Eye residents. Eye parish includes residents from both Eye and Thorney and Newborough wards.

SOURCE: CCC mid-2011 population estimates.

NOTES: (AF) Parish with a large armed forces population that can account for large and erratic annual changes.

¹⁹⁹¹ estimates have been recalculated for the new urban ward areas.
*Part of Eye parish (approximately 190 persons, 32 hectares) was transferred to East Ward following boundary changes in the Peterborough (Parishes) Order 2004. Population figures may not add to totals due to rounding.

Table 9: Mid-2011 population estimates for rural wards

| Ward | Population |
|-----------------------|------------|
| Barnack | 2,780 |
| Eye and Thorney | 6,210 |
| Glinton and Wittering | 6,580 |
| Newborough | 2,680 |
| Northborough | 2,610 |

Source: CCC mid-2011 population estimates.

- 2.17 Three out of the nineteen wards in the Peterborough Urban Area witnessed a decline in population between 2001 and 2011. The highest level of population growth was experienced in Orton with Hampton (256%), reflecting the impact of the development of Hampton township.
- 2.18 Rural parishes with the most pronounced growth between 2001 and 2011 in percentage terms were Wothorpe (35%), Peakirk (19%) and Ailsworth (29%). Due to the relatively small size of these parishes, however, the increases involved small numbers of people. The largest percentage population decreases were experienced in St Martin's Without (-25%) and Upton (-17%).
- 2.19 Certain parishes contain more than one 'settlement', defined as reasonably distinct populations greater than 50. Such parishes and their constituent settlements are listed below.

3 DWELLING STOCK ESTIMATES

Peterborough in Context

- 3.1 Tables 10 and 11 set out the CCC dwelling stock estimates for wards and parishes in the Peterborough Unitary Authority area between 1991 and 2011. The estimates show that the total number of dwellings is approximately 78,700, representing an increase of 12% since 2001.
- 3.2 The ward that has experienced the biggest numerical and percentage increase in dwellings is Orton with Hampton linked to the development of the new township of Hampton. Other areas that have experienced an increase of 25% or more in the number of dwellings in this period are Fletton and the small rural parishes of Ailsworth and Wothorpe.
- 3.3 Data from the 2011 Census on the number of dwellings has not yet been released. However the number of households recorded was 74,000 suggesting the estimate of 78,700 is reasonably accurate as the number of dwellings is usually 4-5% above the number of households.

Table 10: Mid-2011 dwelling stock estimates for rural wards

| Ward | Dwellings |
|-----------------------|-----------|
| Barnack | 1,260 |
| Eye and Thorney | 2,840 |
| Glinton and Wittering | 2,920 |
| Newborough | 1,210 |
| Northborough | 1,130 |

Source: CCC mid-2011 dwelling stock estimates.

Table 11: Mid-2011 dwelling stock estimates, parishes and urban wards

| e 11: Mid-2011 dwelling stock estimates | | | | | | |
|--|----------------|----------------|----------------|---------------------|--|--|
| Parishes / wards | 1991 | 2001 | 2011 | % change 2001-11 | | |
| Ailsworth | 190 | 200 | 250 | 25% | | |
| Bainton | 100 | 130 | 130 | 0% | | |
| Barnack | 390 | 400 | 400 | 0% | | |
| Borough Fen | 50 | 50 | 50 | 0% | | |
| Castor | 350 | 370 | 370 | 0% | | |
| Deeping Gate | 160 | 180 | 220 | 22% | | |
| Etton | 60 | 60 | 70 | 17% | | |
| Eye | 1,410 | 1,760 | 2,050 | 16% | | |
| Glinton | 590 | 670 | 680 | 1% | | |
| Helpston | 310 | 390 | 410 | 5% | | |
| Marholm | 70 | 80 | 80 | 0% | | |
| Maxey | 240 | 270 | 270 | 0% | | |
| Newborough | 540 | 610 | 700 | 15% | | |
| Northborough | 510 | 570 | 570 | 0% | | |
| Peakirk | 140 | 150 | 170 | 13% | | |
| Peterborough (Bretton North) | 4,130 | 4,060 | 4,150 | 2% | | |
| Peterborough (Bretton North) Peterborough (Bretton South) | 1,200 | 1,310 | 1,310 | 0% | | |
| 5 | - | · | • | | | |
| Peterborough (Central) | 3,730 | 3,960 | 4,220 | 7% | | |
| Peterborough (Dogsthorpe) Peterborough (East) * | 3,920 3,460 | 3,960 4,310 | 4,110 4,910 | 4% 14% | | |
| | | | | | | |
| Peterborough (Fletton) | 3,710 | 3,990 | 5,200 | 30% | | |
| Peterborough (North) | 2,190 | 2,400 | 2,530 | 5% | | |
| Peterborough (Orton Longueville) | 4,260 | 4,330 | 4,380 | 1% | | |
| Peterborough (Orton Waterville) | 3,150 | 3,720 | 3,920 | 5% | | |
| Peterborough (Orton with Hampton) | 1,160 | 1,760 | 5,590 | 218% | | |
| Peterborough (Park) | 3,500 | 3,610 | 3,910 | 8% | | |
| Peterborough (Paston) | 3,570 | 3,560 | 3,770 | 6% | | |
| Peterborough (Ravensthorpe) | 2,860 | 2,980 | 3,130 | 5% | | |
| Peterborough (Stanground Central) | 3,420 | 3,840 | 4,120 | 7% | | |
| Peterborough (Stanground East) | 470 | 1,320 | 1,360 | 3% | | |
| Peterborough (Walton) | 2,260 | 2,450 | 2,570 | 5% | | |
| Peterborough (Werrington North) | 3,230 | 3,320 | 3,370 | 2% | | |
| Peterborough (Werrington South) | 2,750 | 2,940 | 2,990 | 2% | | |
| Peterborough (West) | 3,530 | 3,730 | 3,840 | 3% | | |
| Peterborough Urban Area | 56,500 | 61,550 | 69,380 | 13% | | |
| Southorpe | 50 | 50 | 50 | 0% | | |
| St Martin's Without | 20 | 20 | 20 | 0% | | |
| Sutton | 50 | 50 | 50 | 0% | | |
| Thorney | 970 | 1,010 | 1,080 | 7% | | |
| Thornhaugh | 90 | 90 | 90 | 0% | | |
| Ufford | 100 | 100 | 100 | 0% | | |
| Upton | 30 | 30 | 30 | 0% | | |
| Wansford | 200 | 200 | 220 | 10% | | |
| Wittering (AF) | 1,030 | 1,070 | 1,150 | 7% | | |
| Wothorpe | 90 | 120 | 150 | 25% | | |
| Peterborough District | 64,300 | 70,180 | 78,740 | 12% | | |

Source: CCC mid-2011 dwelling stock estimates. Notes: 1991 estimates have been recalculated for the new urban ward areas. *Part of Eye parish (approximately 120 dwellings) was transferred to East ward following boundary changes in the Peterborough (Parishes) Order 2004. Figures may not add to totals due to rounding.

4 NOTES FOR USERS

1) Total population estimates

<u>Definition:</u> The total population figures are estimates of the resident population. The definition of the resident population used for our mid-year estimates is the same as that used in the 2001 and 2011 Census as all students (including school boarders) are counted as resident at their term time address. The population estimates include persons living in communal establishments as well as those in private households.

The population estimates are only as reliable as the sources and methods used to produce them. Certain parishes and wards, particularly those with large numbers of armed forces (marked AF on the tables) or students, are more difficult to estimate in terms of population size and figures are also likely to fluctuate more.

Method: The population estimate is rolled forward one year at a time, taking the change in population from one year to the next and adding it to the last estimate. The sources used to compile these annual change figures cover virtually the whole population age range: electoral registers for the adult population (including European electors from 1995 onwards); school rolls for the school-aged population and health service statistics on births. Additional sources are used to monitor groups for which coverage is otherwise incomplete or uncertain. These include our own surveys for the population associated with local armed forces bases, higher education establishments, independent schools and other institutions such as nursing and residential homes and prisons.

Reliability of Sources: There are a number of problems associated with the compilation of the electoral register that affect its reliability for producing population estimates. At intervals there is a tidying up process whereby the names of people who have died or moved away are removed from the electoral register and attempts are made to increase the level of registration of 17 year olds ("attainers") and other sub-groups of the population. Changes also occur in the general practice of canvassing for the electoral roll. Consequently, changes in a particular area may occur in the number registered to vote that appear inconsistent with other indicators such as the number of new housing completions.

As a general rule, the longer the period over which population changes are analysed, and the larger the settlement, the more reliable the results are likely to be. Particular care should be taken in using the figures for the following types of areas:

Areas with large numbers of armed forces and their families - the electoral register is a poor indicator of changes in numbers of service personnel and their families living in an area. Low registration levels reflect high turnover among those entitled to vote. In addition, American service personnel and their families are not entitled to vote so changes at the USAF bases are not recorded on the electoral register. An annual survey of armed forces attempts to monitor the changes by direct contact with bases. The information that the bases provide is used to adjust the estimates where it is clear that our usual sources give a poor indication of change. Unfortunately, this source is itself often incomplete, particularly with regard to families of armed forces and those living in accommodation off the base.

Mid-year estimates from 2001 were rebased in the light of the 2001 census results and 2011 Census results will allow us to rebase future estimates. This has led to some discontinuity between figures; comparisons with intermediate years' estimates should be made with some caution and small changes in populations should not be scrutinised too heavily.

2) Dwelling stock estimates

<u>Definition</u>: Estimates of dwelling stock relate to the number of self-contained residential units whereby, if there is more than one separate area of living accommodation within a property, each is counted separately. Vacant properties, second homes and holiday homes are included, as are non-permanent dwellings, such as caravans and houseboats (where these are used as dwellings).

<u>Method:</u> The 2001 Census provided a count for the number of dwellings by parish and urban ward but, as it is likely that the census undercounted the number of dwellings by a small amount, this figure was adjusted to provide a mid year estimate for 2001. Estimates from 2001 onwards have been calculated using housing completions data (supplied by the Strategic Planning and Enabling section of the Peterborough City Council) to record change since the Census.

<u>Reliability of sources:</u> Due to the changes in methodology adopted in recent years, comparisons with data from previous years should be undertaken with some measure of caution.

3) Rounding of the figures

Figures for parishes and wards have all been rounded to the nearest 10 people and may not add to district totals. This reflects the level of accuracy of the results.

MAPS

Map 1 – Peterborough and surrounding districts



Map 2 – Peterborough Wards and Parishes

