Changing population

Executive summary

According to the 2011 Census the resident population of North Somerset was 202,566. However, this was lower than the 2010 Office for National Statistics (ONS) Mid Year Estimates (212,000) for the area. It is unclear at this stage what has led to this discrepancy but it has been suggested that methods to estimate the number of people moving into North Somerset from other areas of the country have inflated the total population figures.

The age structure in North Somerset is older with fewer younger dependents and people aged under 40. One in five people in North Somerset are aged over 65 years compared to 16% in England and Wales. Since 1981 the population of North Somerset has grown by 24% and is expected to continue growing reaching an estimated population of 234,000 by 2021. The largest increases have been and are expected to continue to be in the older people.

Between 2001 and 2011 the number of people aged 65 years and over had increased by 17%, with those aged over 85 years increasing by 26%. The growth in the population between the last two censuses was concentrated in particular areas of North Somerset, with the largest increases seen in certain wards in Portishead. Future growth in North Somerset looks to be concentrated in the Weston-super-Mare and the new Weston Villages development. By 2026, around 9,000 new homes are due to be built, the majority of which are planned to be in these two areas.

In 2011 there were an estimated 88,200 households, an increase of 10% since the previous census. There was a slight fall in the number of people living in each household going from 2.36 in 2001 to 2.30 in 2011. The composition of households across the county and in North Somerset is changing.

In 2001 29% of households in North Somerset consisted of one person, by 2011 this had risen to 31%. Nearly one in three people (29%) aged over 65 in North Somerset lives alone. In 2011 6% of all households consisted of a single parent with dependent children, this had risen by 35% since 2001 and at a faster rate than in England and Wales (19% rise).

The population of North Somerset is less ethnically diverse than England and Wales with 97% of people living in North Somerset classifying themselves as belonging to a white ethnic group, a decrease of one percentage point since 2001. Of those from a black or minority ethnic group 43% classified themselves as Asian and a further 37% classified themselves as mixed race.

In terms of the Indices of Deprivation (ID) 2010, North Somerset has 15 areas in the most deprived quartile in the country. All of these areas are in Westonsuper-Mare. For the first time in North Somerset we have areas within the most deprived 1% nationally, and the least deprived 1% nationally. This result

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in North Somerset having the 7th largest inequality gap in the county (calculated using the difference between the highest and lowest score in a unitary authority).

Challenges for consideration

Action is required by the NHS and council to plan services for the predicted growth in the population, particularly in the older age groups.

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Introduction

North Somerset Unitary Authority covers an area of approximately 145 square miles, bordering the local government areas of Bristol, Bath and North East Somerset, Mendip and Sedgemoor, see Map 1. The main settlements are Weston-super-Mare (76,143 people) and the three smaller towns of Clevedon (21,281 people), Nailsea (15,630 people) and Portishead (22,043 people). Over two thirds of people in North Somerset live within these four towns, with the remaining living in the villages and countryside.

NORTH SOMERSET

Winscombs

SEDGEMOOR DISTRICT

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Map 1: Map of North Somerset boundaries

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Overall population

There are three main sources of information on population: the 2011 Census, ONS Mid Year Population Estimates and GP registrations.

- Census: The last actual count of the population in the 2011 Census recorded **202,566** people living in North Somerset;
- ONS Mid Year Population estimates: Prior to the Census ONS estimated a population of 212,000 for 2010. These figures are now being adjusted to take account of the new Census results;

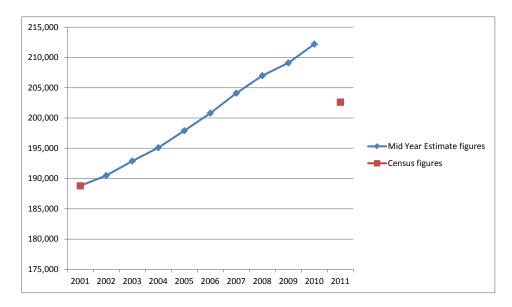
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- GP resident population: In 2011, the number of people living in North Somerset and registered with a GP practice was **213,177**;
- GP registered population: In 2011, the number of people registered with a GP practice in North Somerset regardless of where they live was 210,240.

Differences between the Mid Year Estimates and the Census

The 2011 Census population figure for North Somerset was 202,566 people. This figure is lower than was anticipated, as in between Censuses the Office for National Statistics annually produce Mid Year Estimates of population (MYEs). The MYEs take the last known Census actual figure (188,564 people in 2001), then on an annual basis add known births and subtract known deaths. An estimate is then applied to account for net migration, based on extrapolating previous trends. The MYE series for North Somerset since the last Census count in 2001 is shown below.

Figure 1: Comparison between mid year population estimates between 2001 and 2010 and the 2011 Census figures



Source: ONS Mid Year estimates and 2011 Census.

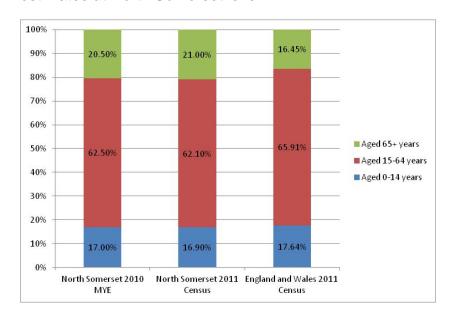
On the basis of the MYE, population growth in the district was thought to be 12.4% between 2001 and 2010. Other data sources, such as the patient register, also pointed towards a similar figure. Whilst the population has still grown, the actual growth rate is now known to be 7.3%. Since births and deaths are relatively easy to monitor, as they must be registered, it is the migration element that must have been over inflated throughout the MYE series. As international migration is not a large factor in population change

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within the district, the net internal migration figures must have been over estimated each year, meaning that less people moved into the area than ONS accounted for, more people moved out of the area, or both.

Whilst the overall population figure is therefore less than was thought, the proportion of people in each broad age band is only marginally different to what was estimated in 2010. North Somerset still has slightly less young people than the national average and significantly more older people than the national average.

Figure 2: Comparison of age breakdown between Census and mid year estimates at North Somerset level



Source: ONS Mid Year estimates and 2011 Census

Population change

Previous Census results have demonstrated a significant increase over the last three decades. In 1981 the population of North Somerset was 162,900, by 1991 this had risen to 179,200 (10% increase), by 2001 this was 188,564 (16% increase) and by 2011 it was 202,600 (24% increase since 1981). The increases are similar to those recorded in the South West, but higher than the average for England and Wales.

Table 1: Percentage change in the population in North Somerset, South West and England and Wales since 1981 Census

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	1981	1991	2001	2011
North Somerset	0%	10%	16%	24%
South West	0%	7%	13%	21%
England and Wales	0%	2%	6%	13%

Source: ONS, Censuses

Factors effecting changes in the population

Population change is effected by three factors: the number of babies being born, the number of deaths, and the number of people moving into the area. Overall mortality rates in North Somerset have been falling. Between 1993 and 2010 there has been a 30% decrease in all age all cause mortality rates compared to a 32% decrease across England and Wales.

In contrast the number of births has been increasing at a faster rates than in England and Wales. In 1997 the birth rate in North Somerset was lower than England and Wales, but by 2009, rates had increased by 14% and were similar to the England and Wales level. In 2011, 2,331 babies were born to mothers living in North Somerset, compared to 1,910 babies in 1999.

Figure 3 shows the changes in births and deaths between 2001 and 2011. During this period there were 458 fewer births than deaths, so the key element of change between the two Census points is migration, predominantly from elsewhere within the UK.

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3000

String 2000

1500

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011

Source: ONS births and deaths file

Figure 3: Trends in birth and deaths, (2001-2011)

Age and gender

The population of North Somerset is fairly evenly split between males (49%) and females (51%), although in the older age group there are generally more females than males, as is the national picture.

The age structure in North Somerset is older with fewer young dependents and people aged under 40 years. Compared to the national average, North Somerset has a larger proportion of older people. One in five people are aged over 65 years compared to 16% in England and Wales. In contrast, fewer people are aged between 20 and 39 years old (21% of the population compared to 27% in England and Wales).

How has this changed between the two Censuses

Table 2 shows a breakdown of changes in the population by specific age groups. Overall between 2001 and 2011 the population of North Somerset has increased by 7.4%. By far the largest growth has been seen in those aged over 65 (17.2%). Looking at this age group in more detail those aged 85+ have seen the largest increase, rising from 5,161 in 2001 to 6,519 by 2011 (26%).

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Table 2: Population change over time, by age group

	2001	2011	% change
0-15	35,799	36,652	2.4%
16-64	116,382	123,281	5.9%
65+	36,383	42,633	17.2%
Total	188,564	202,566	7.4%

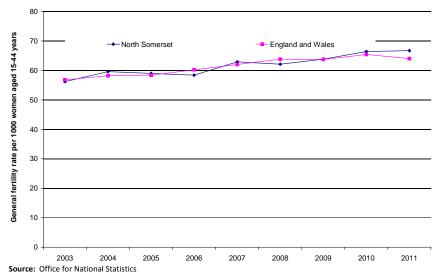
Source: Office for National Statistics

Newborns

Birth rates within North Somerset have been increasing in recent years, rising from 56 per 1,000 women aged 15 to 44 years in 2003 to 67 per 1000 women aged 15 to 44 years in 2011. Since 2003 there has been a 19% increase in birth rates in North Somerset compared to a 13% increase across England and Wales. Between 2008 and 2011 there has been a steady rise in birth rates in North Somerset with the latest data showing that rates are higher in North Somerset than in England and Wales.

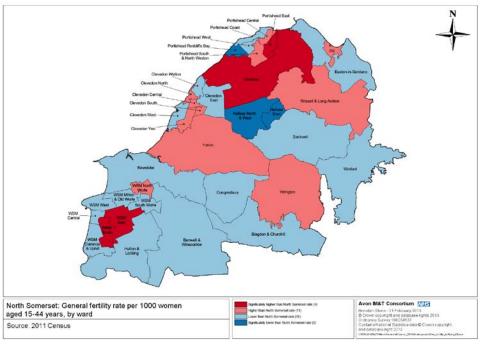
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Figure 4: Trends in rate of babies born per 1000 women aged 15-44 years (general fertility rate)



Within North Somerset in 2011 fertility rates range from 37 per 1000 women aged 15-44 years in Portishead Redcliffe Bay to 87 per 1000 women in Gordano. As can be seen from the map below, significantly higher rates were recorded in Portishead East (103 births), Weston-super-Mare South (188 births), Weston-super-Mare East (262 births) and Gordano (66 births).

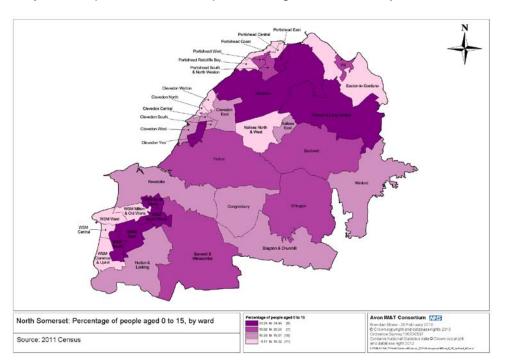
Map 2: Number of babies born per 1000 women aged 15-44 years, 2011



According to the 2011 Census, on average 18% of people living in North Somerset were aged under 16 years, compared to 18% in the South West and 19% in England. This equated to a 2% increase between the 2001 and

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2011 Census. Within North Somerset the proportion aged under 16 years ranged from 9.4% in Clevedon North to 24.5% in Portishead East. As can be seen from Map 3 the highest proportions are concentrated in the Westonsuper-Mare East and South, Worle and the Wraxall and Gordano areas.



Map 3: Proportion of the Population aged under 16 by North Somerset ward

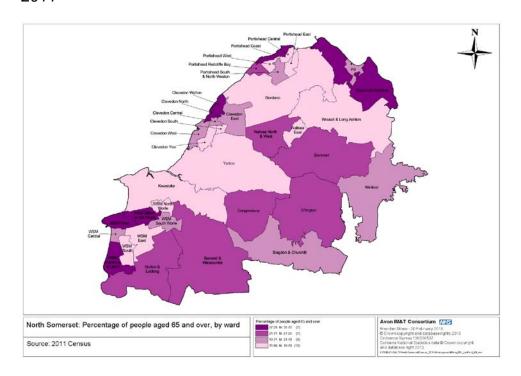
In 2012 just over 28,000 children attend a primary (15,690 pupils), secondary (12,599 pupils) or special maintained school (255 pupils) in North Somerset. On average 4% of North Somerset pupils travelled in from outside of North Somerset, but this ranged from 0% to 73%. The majority of pupils coming to school in North Somerset from outside the district come from Bristol and attend a school in the north of the district.

Older people

On average 21% of people living in North Somerset were aged over 65, compared to 20% in the South West and 16% in England. This equated to a 17% increase between the 2001 and 2011 Census. Within North Somerset those aged over 65 years ranged from 12% in Clevedon Yeo to 36% in Clevedon North. As can be seen from Map 4 the highest proportions are concentrated in two wards within Clevedon (Clevedon North-36% and Clevedon Walton-35%), Portishead Coast (30%) and Weston-super-Mare Clarence and Uphill (30%).

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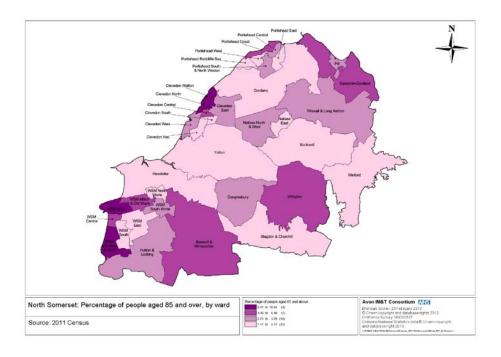
Map 4: Percentage of population aged 65 years and over in North Somerset, 2011



On average 3% of people living in North Somerset were aged over 85 and compared to 3% in the South West and 2% in England. This equated to a 26% increase between the 2001 and 2011 Census. Within North Somerset those aged over 85 years ranged from 1% in Winford to 10% in Clevedon North. As can be seen from Map 5 the highest proportions are concentrated in the Clevedon Walton (7%) and Clevedon North (10%) and Weston-super-Mare Clarence and Uphill (6%)and West (6%).

Map 5: Percentage of population aged 85 years and over in North Somerset, 2011

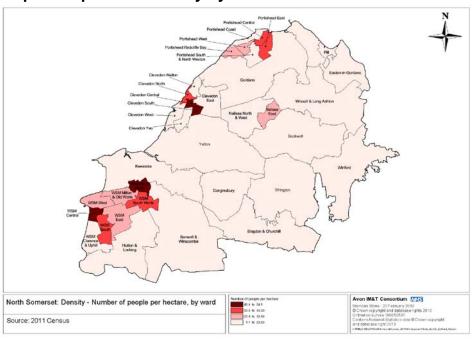
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Local ward level view

North Somerset consists of a mixture of rural and urban areas so the population density across North Somerset varies. Results from the 2011 Census show that population numbers by ward range from 13,553 in Weston-super-Mare East to 2,531 in Clevedon North. Clevedon Central and Weston-super-Mare Central are the most densely populated areas with 54 and 53 people per hectare, whilst Wrington is the most sparsely populated ward in North Somerset with 1 person per hectare, see map below.

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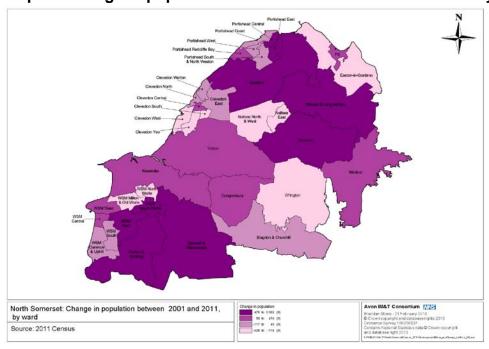


Map 6: Population density by North Somerset ward

Across North Somerset there was a 7% increase in the population between the 2001 and 2011 Census, but this varied from a 158% increase in Portishead Central (2,403 additional people) to a 9% decrease in Wrington (277 fewer people). In terms of absolute numbers Weston-super-Mare East saw the largest increase with an additional 3,983 people (42%).

Map 7 shows the change in population between the two Censuses with the wards within Portishead tending to show the biggest increases whilst both wards within Nailsea saw a decrease.

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Map 7: Change in population between 2001 and 2011 Census by ward

Ethnicity

Coming from a black or minority ethnic (BME) background can impact negatively on your health. This might be because of passive or active discrimination or may be linked to other factors which can include deprivation, poverty, and/or from a genetic predisposition to certain illnesses. Overall this means that people from some BME backgrounds have poorer health and shorter life expectancy than the general population.

Table 3 shows the breakdown of the North Somerset population by ethnic group in comparison to the average for England and Wales. In 2011 the BME population (all ethnic groups other than white) of North Somerset accounted for 2.7% (5,490 people)ⁱ, compared to 4.6% in the South West and 14.6% in England as a whole. Of those from a black or minority ethnic group 43% classified themselves as Asian and a further 37% classified themselves as mixed race.

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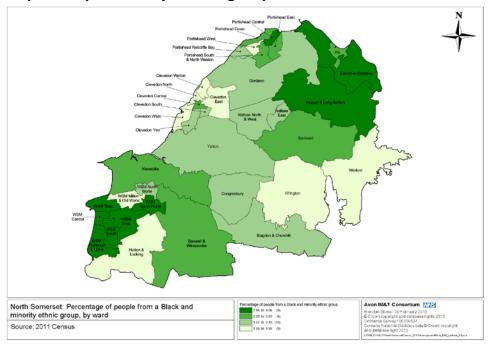
Table 3: 2011 population estimates by ethnic group in North Somerset and England and Wales

	North Somerset		England and Wales	
	Number	% of population	Number	% of population
All Groups	202,566	100%	56,075,91 2	100%
White	197,076	97.3%	48,209,39 5	86%
Mixed	2,033	1.0%	1,224,400	2%
Asian	2,436	1.2%	4,213,531	8%
Black	632	0.3%	1,864,890	3%
Other	389	0.2%	563,696	1%

Source: 2011 Census.

Map 8 shows the percentage of the population from a Black or Minority Ethnic group by ward. Population numbers by ward ranged from 8% in Weston-super-Mare Central to 1% in Clevedon Walton.

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Map 8: Population by ethnic group and ward

School level data on BME populations

The annual North Somerset Council School Census collects details on the ethnic origin of children. Results from the January 2012 Census showed that a higher percentage of children were from a BME population (all ethnic groups other than white) than the 2011 Census suggests the general population of North Somerset (5% compared to 2.7%) were.

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Table 4: School Census population figures by ethnic group in North Somerset

	Number	% of population
All Groups	27,080	100%
White	25,814	95.3%
Asian	326	1.2%
Black	98	0.4%
Chinese	68	0.3%
Mixed	719	2.7%
Other	55	0.2%

Source: 2012 School Census

NB: 3% of responses were missing or the child refused to answer

The largest non white ethnic group were those who classified themselves as mixed race (719 children), followed by Asian (326). Interestingly the largest mixed race group were those who classified themselves as White and Asian.

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Future projections

Figure 6 demonstrates that the population of North Somerset will continue to grow significantly over the coming years. By 2021 the population of North Somerset is estimated to be at 234,100 people. This is an anticipated rise of 16% from the 2011 figure. However, as noted earlier, concerns over the methodology that ONS use to estimate migration suggest that care should be taken when using these figures.

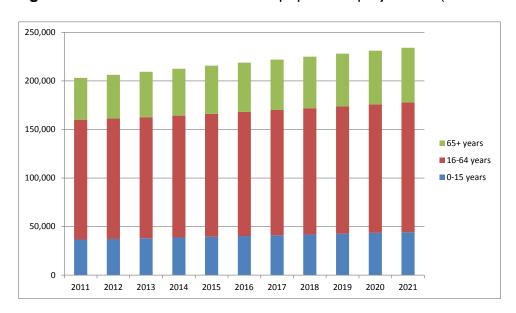


Figure 5: Trends in North Somerset population projections (2011-2021)

Source: 2011 Interim ONS Sub National Population Projections

Proposed new house building

The North Somerset Core Strategy's target that is that by 2026 14,000new homes should be built. Two thirds of these are expected to be in Weston-super-Mare and the Weston villages. Between 2006 and 2012, 5,465 houses have already been completed. This leaves a residual target of 8,535 between now and 2026. The majority of these (around 5,800) are proposed to be delivered at the new strategic development area of Weston Villages, as allocated by the North Somerset Core Strategy (adopted April 2012). The emerging Sites and Policies Plan identifies further locations for housing development on the consultation draft interactive proposals map, which can be viewed at www.n-somerset.gov.uk/sitesandpolicies

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Household composition

At the time of the 2011 Census there were 88,227 households in North Somerset. This had risen by 10% since the 2001 Census, (an additional 8,241 households), compared to an 8% increase across England and Wales. Across North Somerset there was an average of 2.30 people living in each dwelling compared to 2.36 in 2001.

Household composition is determined by people who live together and their relationships to one another. Across North Somerset 44% of households are couples, 31% are one person households, 11% are all pensioners over the age of 65, 9% are lone parents and 5% are in other types of households.

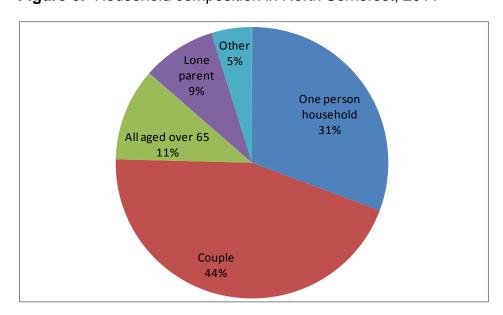


Figure 6: Household composition in North Somerset, 2011

Source: 2011 Census.

Since the 2001 Census there has been a 32% increase in the number of lone parents and a 16% increase in one person households across North Somerset, compared to a 21% and 9% increase in England and Wales respectively.

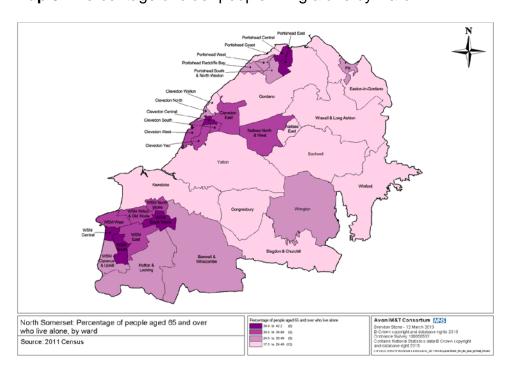
Older people living alone

Across North Somerset the 2011 Census estimated that there were 27,115 one person households. Of these just under half (12,523 people) were aged

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65 and over. This means that nearly one in three people (29%) aged over 65 lives alone, which is similar to the average for England and Wales

The proportion of one person households over the age of 65 varied across North Somerset ranging from 17% in Clevedon Walton (167 people aged 65+ living alone) to 42% in Portishead Central (308 people aged 65+ living alone). As can be seen from Map 8 the highest proportions are concentrated in the Weston-super-Mare area, South Worle, Clevedon North, Clevedon Central and Nailsea North and West.



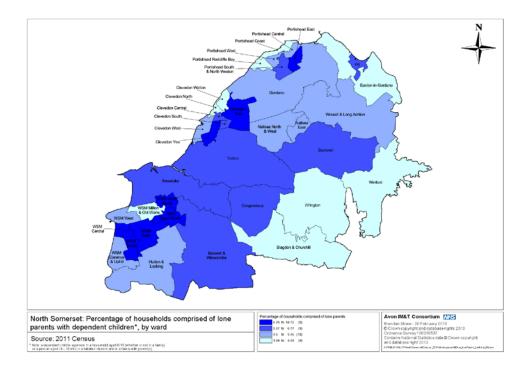
Map 9: Percentage of older people living alone by ward

Single parents living alone with children

Across North Somerset the 2011 Census estimated that there were 7,715 single parents. Of these 70% lived with children who were dependent on them. The number of single parents living with dependent children has increased by 35% since the 2001 Census. The proportion of single parents living with dependent children's range from 2% in Clevedon Walton to 15% in Weston-super-Mare South. As can be seen from Map 10 the highest proportions are concentrated in the Weston-super-Mare area.

Map 10: Percentage single parents living alone with children by ward

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Levels of deprivation

The English Indices of Deprivation 2010 (ID2010) were released by Communities and Local Government (CLG) in March 2011. The ID2010 provides a relative ranking of areas across England according to their level of deprivation and updates the ID2007. Whilst published as the ID2010 it should be noted that most of the data used in the index has a base date of 2008.

The Index of Multiple Deprivation is a Lower Layer Super Output Area (LSOA) measure of multiple deprivation. LSOAs are relatively small areas, each with an average population of 1,500 residents, and enable the comparison of like sized areas across the country. In North Somerset there are a total of 124 LSOAs.

The Indices of Multiple Deprivation are based on the premise that multiple deprivation is made up of the following separate dimensions, or 'domains' of deprivation, each of which is weighted as follows:

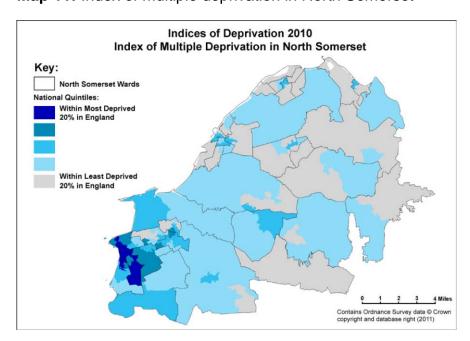
- Income Deprivation (22.5%)
- Employment Deprivation (22.5%)
- Health Deprivation and Disability (13.5%)
- Education, Skills and Training Deprivation (13.5%)
- Barriers to Housing and Services (9.3%)

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- Crime (9.3%)
- Living Environment Deprivation (9.3%)

Each LSOA in the country is given a rank and score for multiple deprivation and for each individual domain of deprivation, indicating whether it is relatively more or less deprived than other LSOAs.

Using this measure 20 (16%) of North Somerset's LSOAs are in the top most affluent areas in England and seven (5.6%) are in the 10% most deprived areas. Those areas that fall in the most 10% deprived are all located within two wards, Weston-super-Mare Central and Weston-super-Mare South.



Map 11: Index of multiple deprivation in North Somerset

Source: 210 Indices of Deprivation, Communities and Local Government

North Somerset has improved their rankings in 62 of the 124 LSOAs since 2007, and 62 have 'declined'. In almost all cases, those within the upper quartiles (least deprived 25%) have 'improved' and those within the lower quartiles (most deprived 25%) have 'declined' in terms of their overall scores.

For the first time we have areas within both the most deprived 1% nationally, and the least deprived 1% nationally. North Somerset has the seventh largest range of inequality of all of the 326 authorities in England (calculated using the difference between the highest and lowest score in a unitary authority). Fifteen of the LSOAs in North Somerset are within the most deprived 25% of areas nationally. All of these areas are within Weston-super-Mare.

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The domains within which deprivation is most prevalent in North Somerset can be highlighted by which have the highest number of LSOAs within the most deprived 10% or 20% nationally.

The most prevalent forms of deprivation in North Somerset relate to barriers to employment, health & disability, crime, and barriers to housing and services. In all but one of the seven domains, Weston-super-Mare contains every North Somerset LSOA within England's most deprived quintile. The exception is the barriers domain, where deprivation affects more rural areas.

Health &

Disability

Employment

Figure 7: The number of Lower Super Output Areas in the 10% and 20% most deprived areas nationally in the 2010 Indices of Deprivation

Source: Indices of Deprivation 2010, Communities and Local Government

Skills &

Training

Housing &

Services

Environment

The barriers sub-domains suggest that geographical barriers are more prominent in North Somerset than other, housing related, barriers. It should be noted that, whilst the geographical barriers sub-domain includes road distance to local amenities which reflects the reality in rural areas, it does not take into account access to private or public transport.

The living environment sub-domains indicate that this type of deprivation in North Somerset is entirely due to housing conditions.

Lack of achievement among children contributes more to the skills deprivation score than lack of qualifications among adults does.

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Income deprivation is more prevalent for older people than children and young people and thus has a greater impact on the overall income deprivation rating in North Somerset.

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Further information

North Somerset Core Strategy

http://www.n-

somerset.gov.uk/Environment/Planning+policy/Core+Strategy.htm

2011 Census results

http://www.ons.gov.uk/ons/guide-method/census/2011/index.htm

Census Ward profiles

http://www.n-somerset.gov.uk/NR/rdonlyres/A2D1AA66-C0E3-4346-907C-61F78D5F623D/0/wardprofilespdf.pdf

The 2012 English Indices of Deprivation

https://www.gov.uk/government/publications/english-indices-of-deprivation-2010

Further data tables

- Registered practice population figures, Dec 2012
- 2011 Census figures by 5 year age band, North Somerset, South West and England and Wales

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Version Control

Date	Author	Version	Amended Sections	Summary of Change	Changes to recommendation s
Sept 11		V2.0	All updated	Census data added and revised projections and GP registrations	
Mar 13		V 3.0	All udpated	New census data included	

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