

Health Service District Population Projections Update

An update from those reported in Health Determinants Queensland 2004



Queensland Government
Queensland Health

Health Determinants Queensland 2004:

Updated Health Service District population projections

Purpose of document

The Health Service District (HSD) profiles in Chapter 6 of Health Determinants Queensland 2004 (HDQ 2004) included population projections derived from the 1996 census. Since then, population projections for districts using the 2001 census have been released.¹ The purpose of this document is to provide an update for the population projections for each of the district profiles (section 6.4). A statement summarising what is different using the 2001 census, compared to the 1996 census is also included. As the summary only focuses on what is different using the 2001 census projections, it is critical that this document is read in conjunction with the district profiles as presented in the report. This is not a stand alone document.

Districts are grouped by zone and listed alphabetically. This document also includes selected summary key age group projections for the state. This is found on page 3 of this document.

How projections are derived

State-wide population projections are generated based on assumptions on the future levels of fertility, mortality and migration (both overseas and interstate). The assumptions are based on historical trends and other available evidence.

Smaller area projections for local government areas (LGA) and statistical local areas (SLA) are generated based on:

- *Fertility and mortality* – current differentials between the area and the state are applied to the state level assumptions
- *Overseas migration* – Queensland net levels have been shared at the area level using overseas migration data from 2001 Census of Population and Housing
- *Interstate and intrastate migration* – Calculated on recent net migration flow data.

Health service district projections are then generated from LGA and selected SLA projections by Queensland Health, using mapping to combine LGAs and SLAs to create Queensland Health districts.

Accuracy of projections

The projections are based on assumptions. These assumptions have inherent variability and to partially deal with this, low, medium and high series population projections are developed. This document uses the medium series projections. Figure 1 clearly shows how volatile some of the components of these population projections can be. The data on the left hand side of graph represents observed changes from 1951 to 2001, while the right hand side demonstrates the trend line for each of the components used in these projections. It is important to note that this volatility is being shown at a state level. It is likely that this volatility will be accentuated when looking at smaller populations, and therefore the projections may be less accurate in such areas.

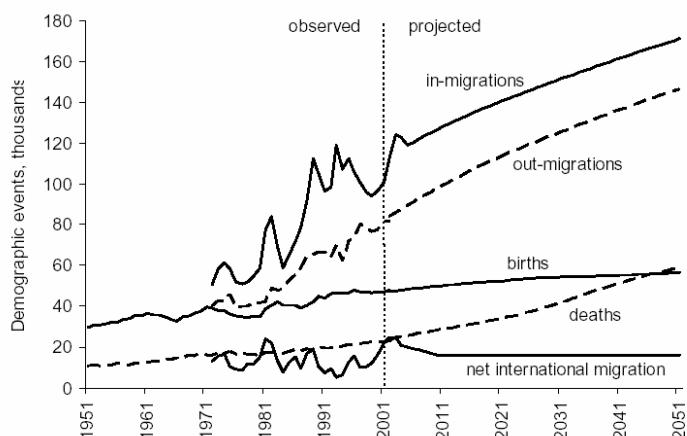
Further information on Queensland government projections

Background papers on how population projections are derived and how and what assumptions are made for the Queensland Government population projections can be found at:

http://www.oesr.qld.gov.au/queensland_by_theme/demography/population/index.shtml or;

<http://www.geosp.uq.edu.au/qcpr/>

Figure 1: The past and projected population of Queensland 1951-2051



Source: Queensland Centre for Population Research, 2003²

Methodology used in district profiles to describe ‘excess’ growth

In the profiles in Chapter 6, projected growth in the population was first determined by comparing the demographic indicator of interest in the district to Queensland. All HSDs were then ranked based on the relevant demographic indicator. The median of those districts in excess of Queensland was noted and the top half of HSDs were categorised as ‘much greater than’ Queensland and the second half of those in excess as ‘greater than’ Queensland. In the HSD profile in Chapter 6 excess growth in a demographic indicator was reported if there was:

- ‘much greater’ proportion of a projected age group than Queensland for the age groups; 0-14, 15-24, 25-64 years
- ‘greater’ or ‘much greater’ proportion of people aged 65 years and older compared to Queensland, ie. all those HSDs where the proportion of people aged 65 years and older was greater than the state.

In this analysis therefore, there were two points of comparison. Firstly the district proportion was compared to the state, and then compared to all other districts. For example in Fraser Coast HSD, projections based on the 2001 census show that overall growth is projected to be greater than previously thought. Secondly while growth in population of children and young people is projected to be ‘greater than’ Queensland, compared to other districts it is not ‘much greater than’ Queensland as it was in the 1996 census derived projections. The relative growth in these two age groups in Fraser Coast HSD is no longer noted as in excess, even though they are still greater than the state.

In addition, in these profiles, where relevant, absolute numbers have been included. For example while the proportional increases may be relatively small in The Prince Charles Hospital and District compared to other districts, because of the size of the population even small proportional increases represent large numbers of people.

In this document, consistent with the profiles, unless otherwise noted, the following age range definitions apply; children are aged 0-14 years, young people are 15-24 years, adults are 25-64 years and older people are 65 years and older.

References

1. Queensland Health, *Projections Medium Series (5 Year Intervals): Age by Sex, LGA, Health Districts & Zones for Queensland 2004*.
<http://qheps.health.qld.gov.au/hic/infobank/ib3.htm#subtopic8>
2. Queensland Centre for Population Research, *New population projections for Queensland and statistical divisions* Discussion paper 2003/07, University of Queensland
http://www.geosp.uq.edu.au/qcpr/Homepage/discussion_papers/2003-07_popProjectionQld.pdf

Summary:

The most **rapidly growing** districts (ie >50% projected increase over the period 2001 to 2021) are:

1. Sunshine Coast 77% increase
2. Logan-Beaudesert 69% increase
3. Fraser Coast 53% increase
4. Gladstone 53% increase
5. West Moreton 52% increase.

The districts with largest **numerical** increase (ie > 50,000 people in the 20 year period) are:

1. Logan-Beaudesert; 191,000 people or 14% of total growth in Queensland
2. Sunshine Coast; 190,000 people or 14% of total growth in Queensland
3. Gold Coast; 160,000 people or 12% of total growth in Queensland
4. The Prince Charles; 143,000 people or 11% of total growth in Queensland
5. West Moreton; 87,000 people or 6% of total growth in Queensland
6. Redcliffe Caboolture; 78,000 people or 6% of total growth in Queensland
7. Bayside; 77,000 people or 6% of total growth in Queensland
8. Cairns; 58,000 people or 4% of total growth in Queensland
9. Townsville; 56,000 people or 4% of total growth in Queensland.

Children (0–14 years)

Districts with excess **growth** in population of children are:

1. Sunshine Coast
2. Gladstone
3. Logan-Beaudesert
4. Cairns
5. Townsville.

However of the projected increase in the **number** of children in Queensland (77,098), 50% of this is projected to occur in Sunshine Coast and Logan-Beaudesert districts (and a further 15% at the Gold Coast).

Young people (15–24 years)

Districts with excess **growth** in population of young people are:

1. Logan-Beaudesert
2. Gladstone
3. Sunshine Coast
4. Cairns.

However of the projected increase in the **number** of young people in Queensland (120,315), 57% of this is projected to occur in Logan-Beaudesert, The Prince Charles, QEII and Sunshine Coast districts.

Adult people (25–64 years)

Districts with excess **growth** in population of adults are:

1. Sunshine Coast
2. Logan-Beaudesert
3. Gladstone
4. West Moreton
5. Fraser Coast.

However of the projected increase in the **number** of adult people in Queensland (693,132), 50% of this is projected to occur in the Logan-Beaudesert, Sunshine Coast, Gold Coast and Prince Charles districts.

Older people (65+ years)

Districts with excess **growth** in population of older people are:

1. Logan-Beaudesert
2. Moranbah
3. Cape York
4. West Moreton

5. Sunshine Coast
6. Redcliffe Caboolture
7. Bundaberg
8. Gladstone
9. Mackay
10. Fraser Coast
11. Gympie
12. Cairns
13. Bayside
14. Tablelands
15. Mt Isa
16. Gold Coast.

However of the projected increase in the **number** of older people in Queensland (463,241); 54% of this is projected to occur in the Sunshine Coast, Gold Coast, Logan-Beaudesert, Prince Charles and Redcliffe Caboolture districts.

CENTRAL districts

Banana HSD: Population growth

Banana HSD is an area with a recent history of population decline. This decline is projected to continue over the 20 year period from 2001 to 2021, and to affect all age groups except older people. Greatest decline is projected to occur in the number of children. There is projected increase of about 750 older people in the district in this period, consistent with an ageing population in many areas in Queensland.

What is different using the 2001 census projections?

The projected increase in older people relative to other districts and Queensland is no longer apparent.

Bundaberg HSD: Population growth

Bundaberg HSD is an area with a recent history of population growth. Moderate population growth, at a rate greater than the Queensland rate is projected for the period 2001 to 2021. In the 20 year period, the district population is projected to increase by about 40,000 persons. Consistent with an ageing population in many areas in Queensland, greatest proportional increases will occur in older age groups, although absolute growth will occur in adult and older age groups.

What is different using the 2001 census projections?

The projected increase in young people is no longer apparent.

Central Highlands HSD: Population growth

Central Highlands HSD is an area with a recent history of population growth. The population is projected to continue to grow at a similar but slower rate over the 20 year period from 2001 to 2021. In this period, the district population is projected to increase by about 950 persons, with two thirds of this increase projected to be female. Consistent with an ageing population in many areas in Queensland, greatest proportional increases will occur in older age groups.

What is different using the 2001 census projections? The projected relative increase in older people is no longer apparent, essentially due to lower overall projected growth.

Central West HSD: Population growth

Central West HSD is an area with a recent history of population decline. This decline is projected to continue over the 20 year period from 2001 to 2021, and to affect all age groups except older people and adult males. There is a projected increase in the number of older people in the district in this period, consistent with an ageing population in many areas in Queensland.

What is different using the 2001 census projections?

No difference.

Fraser Coast HSD: Population growth

The Fraser Coast HSD is an area with a recent history of population growth. Continued population growth, at a rate substantially higher than the Queensland rate is projected for the period from 2001 to 2021. In this 20 year period, the district population is projected to increase by about 41,000 persons. Projected increases will affect all age groups and while greatest proportional increases will occur in older age groups, the growth in adult age groups will be very high, compared to other districts.

What is different using the 2001 census projections?

The overall projected growth is greater than predicted from 1996 census projections. The relative growth in children and young people population from the 1996 census projections is no longer apparent, but growth in adults is now apparent.

Gladstone HSD: Population growth

Gladstone HSD is an area with a recent history of moderate population growth and this growth is projected to continue at a rate greater than the state over the period 2001 to 2021. In the 20 year period, the district population is projected to increase by about 22,000 people, and although this district will see greatest proportional increases in older age groups, substantial increases will occur in all age groups.

What is different using the 2001 census projections?

The relative growth in children's population is greater than 1996 census projections. The district has moved up in the ranking of overall proportional growth, even though there is little change in absolute numbers.

Gympie HSD: Population growth

The Gympie HSD is an area with a recent history of population growth and continued moderate growth, at a rate similar to the Queensland rate, is projected for the period 2001 to 2021. In this 20 year period, the district population is projected to increase by about 11,000 persons. Consistent with an ageing population as in many areas in Queensland, greatest proportional increases are projected to occur in older age groups, with over 50% of the projected increase in total numbers occurring in older people.

What is different using the 2001 census projections?

No difference.

North Burnett HSD: Population growth

North Burnett HSD is an area with a recent history of population decline. This decline is projected to continue for the period 2001 to 2021 and to affect all age groups except those aged 65 years and older. Consistent with an ageing population in many areas in Queensland, the population of older people will increase and in this district by about 900 persons.

What is different using the 2001 census projections?

No difference.

The Prince Charles Hospital and District: Population growth

The Prince Charles Hospital and District is an area with a recent history of population growth. Moderate population growth, at a rate similar to the Queensland rate is projected for the period 2001 to 2021. In the 20 year period, the district population is projected to increase by approximately 143,000 persons, the fourth largest increase in absolute numbers of people, of all districts. Consistent with an ageing population in many areas in Queensland, greatest proportional increases will occur in older age groups. However there will be growth in all age groups, particularly in adults in the age range 25-64 years, with 50% of total growth occurring in this age group.

What is different using the 2001 census projections?

Projected increase in children is no longer apparent.

Redcliffe-Caboolture HSD: Population growth

Redcliffe-Caboolture HSD is an area with a history of greater population growth than Queensland. This higher rate of growth is projected to continue in the period 2001 to 2021. The district is one of the top eight growth districts in the state, together accounting for 75% of total growth in the state. In the 20 year period, the district population is projected to increase by about 78,000 persons. Projections indicate growth in all age groups in this district. As is the case for Queensland, the

Redcliffe-Caboolture HSD population is ageing, with greatest proportional increases projected to occur in people aged 65 years and older.

What is different using the 2001 census projections?

The overall growth is less than projected using 1996 census and the excess growth in children and young people populations is no longer evident.

Rockhampton HSD: Population growth

Rockhampton HSD is an area with a recent history of population growth. This growth is projected to continue, at a rate less than the Queensland rate for the period 2001 to 2021. In this 20 year period, the district population is projected to increase by about 20,000 persons. Consistent with an ageing population in many areas in Queensland, substantial increases will occur in older age groups.

What is different using the 2001 census projections?

No difference.

South Burnett HSD: Population growth

South Burnett HSD is an area with a recent history of population decline. Low population growth, at a rate less than the Queensland rate is projected for the period 2001 to 2021. In the 20 year period, the district population is projected to increase by 5,400 persons. Consistent with an ageing population in many areas in Queensland, greatest increases will occur in older age groups, with projected decline in younger age groups.

What is different using the 2001 census projections?

The projected increase in older population compared to other districts and Queensland is no longer evident.

Sunshine Coast HSD: Population growth

Sunshine Coast HSD is an area with a recent history of substantial population growth. This district is projected to be the fastest growing district in Queensland in the 20 year period between 2001 and 2021. In this period, the district population is projected to increase by about 190,000 persons. Consistent with an ageing population in many areas in Queensland, greatest proportional increases will occur in older age groups. However, in this district population, percentage increases in children, young people and adult populations will outstrip most other districts in the period. Note that 26% of the projected growth in the population of children in Queensland in the 20 year period will occur in the Sunshine Coast HSD.

What is different using the 2001 census projections?

No difference.

SOUTHERN districts

Bayside HSD: Population growth

Bayside HSD is an area with a recent history of population growth. Continued population growth, at a rate greater than the Queensland rate is projected for the period 2001 to 2021. This is the sixth largest HSD in Queensland by population and in the 20 year period, the district population is projected to increase by about 77,000 persons. Population projections indicate growth in this district will affect all age groups, however consistent with an ageing population in many areas in Queensland, greatest proportional increases will occur in older age groups.

What is different using the 2001 census projections?

No difference.

Charleville HSD: Population growth

Charleville HSD is an area with a recent history of population decline and this decline although quite low is projected to continue for the period 2001 to 2021. In the 20 year period, population decline is projected for all age groups except for older people. This is consistent with an ageing population in many areas of Queensland where the greatest proportional increases are projected to occur in older age groups.

What is different using the 2001 census projections?

No difference.

Gold Coast HSD: Population growth

Gold Coast HSD is an area with a history of greater population growth than Queensland. This higher rate of growth is projected to continue over the next 20 years from 2001 to 2021. Based on the growth figures from the 2001 census, this district is projected to be one of the top three areas for growth in the state, based on the projected increase in absolute numbers of persons (rather than proportional increase) over the period.

Projected growth will affect all age groups although relative to the growth in other districts in Queensland, this growth is not excessive. However as for Queensland, the effects of the ageing population are evident in this district and in the 20 year period between 2001 and 2021 the population aged 65 years and older is projected to double.

What is different using the 2001 census projections?

Overall projected growth will be less than earlier projections. In particular the projected excess growth in children, young people and adults will be less evident.

Logan-Beaudesert HSD: Population growth

Logan-Beaudesert HSD is an area with a recent history of population growth. Strong population growth, at a rate greater than the Queensland rate is projected for the period 2001 to 2021. This district projected to be the second fastest growing district in Queensland, based on proportional increase and the district with the largest increase in absolute numbers (an increase of about 190,000 people) This growth will result in excess growth in all age groups (compared to other districts) although consistent with an ageing population in many areas in Queensland, greatest increases will occur in older age groups.

What is different using the 2001 census projections?

Excess growth in all age groups is evident, where projections based on the 1996 census indicated excess growth in older people only.

Northern Downs HSD: Population growth

Northern Downs HSD is an area with a recent history of very low population growth and this very low growth is projected to continue for the period 2001 to 2021. The population is projected to increase by less than 1000 people over the 20 year period, with population decline projected in younger age groups. Consistent with an ageing population in many areas in Queensland, greatest proportional increases will occur in older age groups.

What is different using the 2001 census projections?

No difference.

The QEII Hospital and District: Population growth

The Queen Elizabeth II Hospital and HSD is an area with a recent history of population growth. Moderate population growth, at a rate less than the Queensland rate is projected for the period 2001 to 2021. In the 20 year period, the district population is projected to increase by about 85,000 persons. In contrast to many areas in Queensland with ageing populations, in this district, the projected proportional increase of all age groups will be similar.

What is different using the 2001 census projections?

No difference.

Roma HSD: Population growth

Roma HSD is an area with a recent history of no population growth. However for the period 2001 to 2021, very slight population increase is projected, resulting in an increase of about 800 people. While population decline is projected for children, consistent with an ageing population in many areas in Queensland greatest proportional increases are projected to occur in older age groups.

What is different using the 2001 census projections?

No difference.

Southern Downs HSD: Population growth

Southern Downs HSD is an area with a recent history of low population growth, which is projected to continue for the period 2001 to 2021, resulting in a net increase of about 11,000 people. The 20 year projections indicate the proportion of children will decrease while the proportion of older adults and older people will increase. Consistent with an ageing population in many areas in Queensland, greatest proportional increases will occur in older age groups.

What is different using the 2001 census projections?

No difference.

Toowoomba HSD: Population growth

Toowoomba HSD is an area with a recent history of population growth less than the state. Similar growth is projected in the period 2001 to 2021, resulting in an increase of about 31,000 people. Consistent with an ageing population in many areas in Queensland, greatest proportional increases will occur in older age groups.

What is different using the 2001 census projections?

No difference.

West Moreton HSD: Population growth

West Moreton HSD is an area with a recent history of population growth. Strong population growth is projected for the period 2001 to 2021. It is estimated this will result in a projected increase of about 87,000 people. This district is projected to be one of the top five rapidly growing districts in the state in the 20 year period. While population increase is projected to affect all age group,

greatest proportional increases will occur in older age groups, consistent with an ageing population as in many areas in Queensland.

What is different using the 2001 census projections?

Excess overall growth is projected; in particular excess growth in adult and older age groups.

NORTHERN districts

Bowen HSD: Population growth

Bowen HSD is an area with a recent history of population decline. Continued decline is projected for the period 2001 to 2021. In the 20 year period, projections indicate decline in all age groups except in older age ranges (65 years and older). This is consistent with an ageing population in many areas in Queensland, where greatest increases will occur in older age groups.

What is different using the 2001 census projections?

No difference.

Cairns HSD: Population growth

Cairns HSD is an area with a recent history of population growth at a rate lower than the state. Strong population growth is projected for the 20 year period between 2001 and 2021, with a projected increase of about 58,000 people. This growth is projected to affect all age groups although compared to other HSDs in Queensland the proportional growth in children and young people's populations will be notable.

What is different using the 2001 census projections?

Compared to other districts, projected growth is now evident in children and young people populations but not in adult and older people.

Cape York HSD: Population growth

Cape York HSD is an area with a recent history of population growth, at a rate similar to or less than the state. Over the 20 years from 2001 to 2021 similar growth is projected, resulting in an increase of about 1,400 people. As for Queensland, the effects of the ageing population are evident in this district with greatest proportional increases projected to occur in people aged 65 years and older.

What is different using the 2001 census projections?

No difference.

Charters Towers HSD: Population growth

Charters Towers HSD is an area with a recent history of population decline. Further decline is projected for the period 2001 to 2021 and this decline will affect all age groups except older people, consistent with an ageing population in many areas in Queensland.

What is different using the 2001 census projections?

No difference.

Innisfail HSD: Population growth

Innisfail HSD is an area with a recent history of population decline. However population growth, at a rate less than the Queensland rate is projected for the period 2001 to 2021. In the 20 year period, the district population is projected to increase by about 6,000 persons. Approximately 60% of this increase will be male. Consistent with an ageing population in many areas in Queensland, greatest proportional increases will occur in older age groups.

What is different using the 2001 census projections?

The projected increase in older people is no longer evident, compared to other districts.

Mackay HSD: Population growth

Mackay HSD is an area with a recent history of population growth at a rate less than the state. Moderate population growth, at a rate similar to the Queensland rate is projected for the period 2001 to 2021. In the 20 year period, the district population is projected to increase by about 37,000

persons. Consistent with an ageing population in many areas in Queensland, greatest increases will occur in older age groups.

What is different using the 2001 census projections?

No difference.

Moranbah HSD: Population growth

Moranbah HSD is an area with a recent history of population decline. Continued population decline is projected for the period 2001 to 2021. This decline is projected to affect all age groups except older people, where there will be an expected increase of about 2,000 people, consistent with an ageing population in many areas in Queensland. About 60% of this increase is projected to be male.

What is different using the 2001 census projections?

No difference.

Mt Isa HSD: Population growth

Mt Isa HSD is an area with a recent history of population growth, at a rate less than the state. In the period 2001 to 2021 the district population is projected to decline slightly. Static growth or decline is projected to affect all age groups under 65 years, with substantial increases (of about 1,700 people) in older people, consistent with an ageing population in many areas in Queensland.

What is different using the 2001 census projections?

No difference.

Tablelands HSD: Population growth

Tablelands HSD is an area with a recent history of static population. Moderate population growth, at a rate less than the Queensland rate is projected for the period 2001 to 2021. In the 20 year period, the district population is projected to increase by about 6,000 persons. Consistent with an ageing population in many areas in Queensland, greatest proportional increases in this district will occur in older age groups.

What is different using the 2001 census projections?

No difference.

Torres Strait and Northern Peninsula Area HSD: Population growth

Torres Strait and Northern Peninsula Area HSD is an area with a recent history of population growth. Population growth, at a rate less than the Queensland rate is projected for the period 2001 to 2021. In the 20 year period, the district population is projected to increase by about 2,000 persons, with increases in all age groups, except children. Unlike many other areas in Queensland with an ageing population, in this HSD the adult population will grow by the greatest proportion in this period.

What is different using the 2001 census projections?

The relative growth in older population is no longer apparent

Townsville HSD: Population growth

Townsville HSD is an area with a recent history of population growth. This growth is projected to continue, at a rate similar to Queensland for the period 2001 to 2021. In the 20 year period, the district population is projected to increase by approximately 56,000 persons, with a greater proportion being female. Population growth will affect all age groups, and in particular children (when the growth in this district is compared to the growth in other districts in Queensland).

However, consistent with an aging population in many areas in Queensland, greatest proportional increases will occur in older age groups.

What is different using the 2001 census projections?

Growth in children population is now apparent but not in older population (relative to other districts).