Population Projections For Alberta and its Health Regions 2004-2033

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Executive Summary

Previous population projections Population projections for Alberta and its health regions have been presented in four reports: *Population Projections for Alberta and its Health Regions: 1996-2016; Population Projections for Alberta and its Health Regions: Models and Methods; Population Projections for Alberta and its Health Regions, Update 1998; and Population Projections for Alberta and its Health Regions, 2000-2030*.

This report presents population projections for Alberta and its nine health regions for the years 2004 to 2033. The methodology used to develop these projections has gone through several modifications, which are explained throughout the report. In addition, this is the first time projections have been developed since the reduction in the number of health regions from seventeen to nine.

The projections for Alberta and its nine health regions are presented in Table 6.

Acknowledgments

Shaun Malo prepared this report. The contributions of the following reviewers are gratefully acknowledged.

Alberta Health and Wellness

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1. Introduction

Population projections for Alberta and its nine Health Regions have been developed for the years 2004 to 2033. The population projections, as of June 30 each year, are calculated by single year of age, sex, and health region for each projection year and are intended for planning purposes. Electronic databases with these projections are available on request, as well as refined projections corresponding to March 31 of each year.

Population projections describe the course of future population change based on particular assumptions about future mortality, fertility, and migration. The projections will only be as accurate as the assumptions chosen. One set of assumptions was chosen for the development of these projections, and are intended to reflect a "reasonable" picture of the future components of population change, with emphasis placed on recent Alberta experiences.

There are four high level steps involved in the creation of population projections. The first step is to generate the historical data series for mortality rates, fertility rates, and migration. The data sources and adjustments for mortality rates, fertility rates, and migration are described in Section 2.

Once the historical data is assembled, the second step involves modeling each of the three components of population change; that is mortality, fertility, and migration. A model allows for better understanding of the relationships among the variables (i.e. year of age, health region, and year) in the data (i.e. mortality rates, fertility rates, and migration). The methodology for how the data is modeled is provided in Appendices 3 and 4.

At this point, the original data (i.e. mortality rates by year of age, health region, and year) can then be reproduced adequately using the modeled parameters that describe the relationships between the variables. The third step then is to project the modeled time (year) parameters, and use these, along with the age and health region parameters from the model, to generate projected values of the data (i.e. projected mortality rates).

Finally, the projected components of population change (mortality rates, fertility rates, and migration) are applied to a general cohort component model to create population projections. A general cohort component model combines the three components of population change into a single projection model. Starting with a base population distribution, the number of projected deaths in each subgroup (i.e. age, sex, health region) is subtracted, while projected births, by sex and health region, are added to the age 0 group. The population distribution is then adjusted by the net migration for each age/sex/region subgroup. Finally, each individual in the population is aged by one year and the process repeats itself for the desired number of years.

The population projections will be revised periodically. The decision on how to revise the population projections in upcoming years will be based upon the degree to how closely

the projected inputs of population change mirror what actually happens. Development of updated population projections can be done in two ways. First, new models can be developed to generate new projections for mortality rates, fertility rates, and migration, based on the addition of historical data. Second, the projections can be revised by retaining the previously projected model inputs, and revising the base population in the general cohort component model with updated population counts.

2. Data

The data used to generate mortality rates, fertility rates, and migration, come from two sources. The first is the Alberta Health Care Insurance Plan Stakeholder Registry. The registry is a listing of Alberta residents eligible for medical coverage for physician and hospital services through the Alberta Health Care Insurance Plan. The coverage does not include members of the armed forces, RCMP, or inmates of federal penitentiaries, who are covered by the federal government. It also does not include people who have decided not to register with the AHCIP. It will, however, include some individuals who spend significant periods of time out of province. The number of people registered for coverage serves as an approximation of the population used to calculate mortality and fertility rates. The data from the registry also serves as the basis for calculating inter-regional and external migration.

The second data source is Alberta Vital Statistics. Vital Statistics administers Alberta's Vital Statistics Act, Marriage Act, and Change of Name Act. These acts regulate the registration of all vital events that occur in Alberta such as births, stillbirths, deaths, adoptions, marriages, and changes of name. Alberta Health and Wellness receives vital event data for births and deaths each year from Alberta Vital Statistics, which are used for the calculation of mortality and fertility rates. The Vital Statistics data only contains births and deaths occurring within the province, resulting in slight underestimates for mortality rates and fertility rates.

Certain anomalies exist in the data, and some adjustments must to be made to improve the quality of the projections. Four specific adjustments and considerations are explained below.

a. Population Adjustments

Adjusted population figures were used in the analysis of mortality rates, fertility rates and migration levels. Post-censal population estimates by five-year age group and sex were obtained from Statistics Canada. When population registry figures were compared to these figures, it was shown that the population registry tends to underestimate people below age 1 and overestimate people over age 70, especially in the late 1980s and early 1990s. The number of individuals in their early 20s is also slightly underestimated by the registry, likely due to the transient nature of this population and their tendency to go longer periods of time without being registered under the Alberta Health Care Insurance Plan. To correct for this, the ratio of Statistics Canada to AHCIP registry populations by age and year were modeled using the singular value decomposition. The AHCIP registry

population values were multiplied by the modeled ratios. These adjusted population figures were used for the calculation of mortality and fertility rates, and in the migration analysis.

b. Births in East Central Health Region

Vital statistics data underestimates the number of births to women residing in the East Central Health Region, particularly because many women in the Lloydminster area give birth on the Saskatchewan side of the border. An attempt was made to adjust for this by looking at the physician claims for births provided at the Lloydminster hospital to women who were residents of the East Central Health Region. These births were added to the vital statistics birth counts.

c. Migration Data

Migration is calculated by comparing individuals in consecutive years on the Alberta Health Care Insurance Plan Registry. The data was adjusted retroactively to remove inconsistencies in demographics for the same person across years. If an individual had a date of birth corrected in a given year, then the age calculations on June 30 in the two consecutive years give an illogical result. For example, as a result of a correction in the date of birth, person A is 25 on June 30 of 1997, and 28 on June 30 of 1998. The most recent demographic information for an individual is considered as the correct data for making the adjustments.

d. Net External Migration

Prior to 1993, people who died or were born may have taken several years to be added or removed from the AHCIP Registry. In about 1993, the adding and deletion of people from the registry became more timely, resulting in inconsistencies in the calculated values of net external migration from the year 1992/1993 to 1993/1994. Net external migration is sensitive to this change because the calculation involves the subtraction of deaths from people disappearing from the registry to calculate external migration losses, and the subtraction of births to calculate external migration gains for persons aged 0. As a result, net external migration was calculated only for the years 1993/1994 and onward.

3. Mortality

a. Data

Age-sex specific mortality rates were calculated for a series of 18 calendar years, with the data coming from two sources. Mortality data for the calendar years 1986 to 2003 came from Alberta Vital Statistics. Population data, consisting of mid-year population totals for the years 1986 to 2003, came from the Alberta Health Care Insurance Plan Registry (Section 2 describes how the AHCIP registry is administered along with adjustments made to the data).

Two three-dimensional arrays of age-specific mortality rates were constructed (one for males, and one for females). Each $91 \times 9 \times 18$ array contains age-specific mortality rates for nine regions and 18 calendar years.

The numerator is the number of deaths in that age/sex/region cohort within the calendar year; the denominator is the mid-year population within that age/sex/region cohort during the calendar year.

b. Methodology and Analysis

Mortality rates were modeled using the Lee-Carter model, as explained in Appendix 4. The most important determination made was that overall mortality should continue to decline at a continually slower rate over the next 30 years. This supports the notion that life expectancies may be starting to reach a “saturation point”, and will not continue to increase at the same rate seen in the past 18 years. The decline in mortality tends to be greatest at younger ages

Figures 1 and 2 show the actual and projected male and female life expectancies at birth for the Calgary and Capital Health Regions respectively. The actual and projected male and female life expectancies at birth for each region are tabulated in Tables 1 and 2. Provincial life expectancy at birth is provided in Table 7.

Figure 1: Life Expectancy at Birth in Calgary Health Region: Actual and Projected

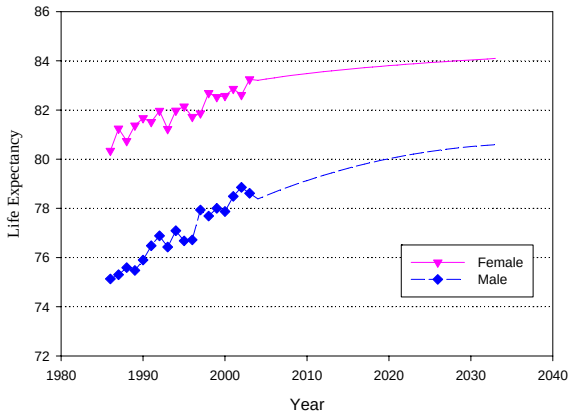
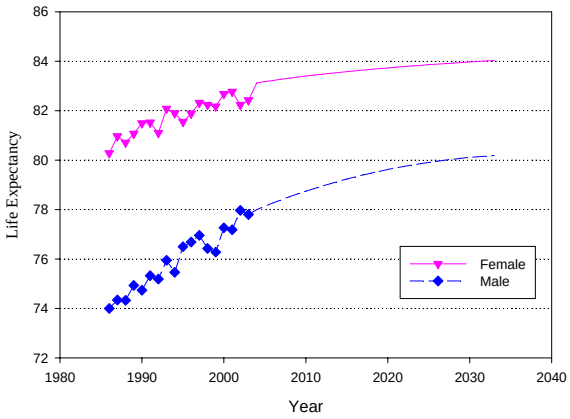


Figure 2: Life Expectancy at Birth in Capital Health Region: Actual and Projected



Examining how mortality rates vary across ages in different regions showed that for males and females, the David Thompson, Aspen, and Peace Health Regions, generally had higher mortality rates among the elderly. This can be seen in Figures 3 and 4. This pattern is assumed to remain invariant over time throughout the projection period.

Figure 3: Mortality Rates per 1,000 Males age 75 + by RHA: Average 1986 to 2003

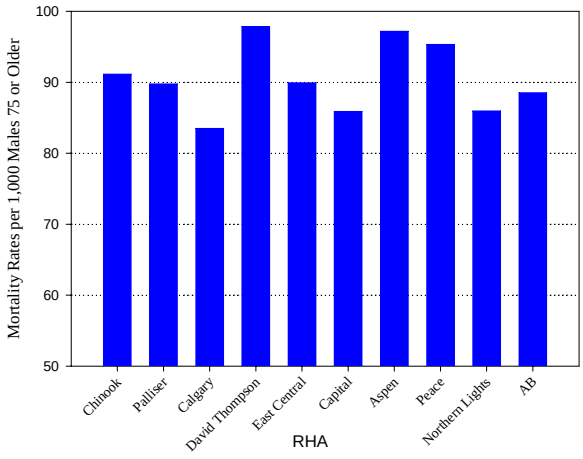
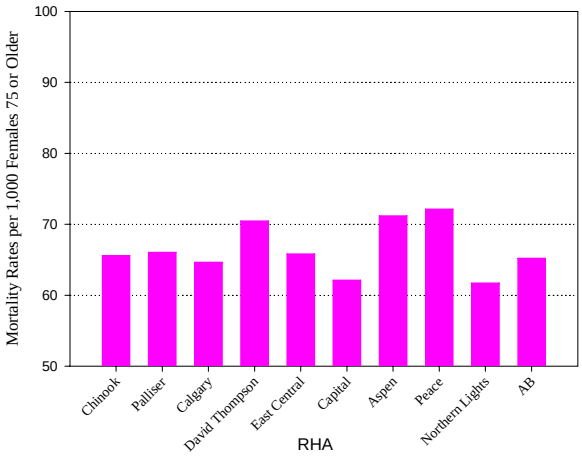


Figure 4: Mortality Rates per 1,000 Females age 75+ by RHA: Average 1986 to 2003



Fluctuations over the 18 years were evident in overall (i.e. all ages) mortality rates across regions, however the patterns provided no degree of predictability for both males and females, and were not factored into the projections.

4. Fertility

a. Data

Age-sex specific fertility rates were calculated for a series of 18 calendar years, with the data coming from two sources. Birth data for the calendar years 1986 to 2003 came from Alberta Vital Statistics. Population data, consisting of mid-year population total for the years 1986 to 2003, came from the Alberta Health Care Insurance Plan Registry (Section 2 describes how the AHCIP registry is administered along with adjustments made to the data).

A $38 \times 9 \times 18$ array of age-specific fertility rates was constructed. Included were 30 individual years of mother's age, 15 to 44.

The numerator of the rate is the number of births at each mother's year of age for each region within the calendar year; the denominator is the mid-year population of females within that age/region cohort of the population during the calendar year.

b. Methodology and Analysis

The singular value decomposition was used to model and analyze the trends in fertility [1]. The methodology is outlined in Appendix 4. The singular value decomposition analysis revealed two findings regarding how mother's age of fertility has changed with time

First, the data show a steady downward trend in Alberta of the fertility of women aged 27 to 28, the cohort of women with the highest fertility rates. The trend has apparently reversed in the last few years. The assumptions made about the future time course of this parameter is that the overall downward trend in fertility will continue, however at a slower rate than was seen over the past 18 years. This will be carefully monitored.

Another noticeable trend is that the fertility has steadily increased in women around the ages of 32 to 34. The increase has been greatest since the late 1990's. This trend was projected to continue to increase for the short term and then converge to a constant level.

Figure 5 shows the provincial trend, actual and projected, in fertility of women aged 27 and 28, along with women age 32 to 34. The rates are projected to converge over time.

Figure 6 shows the Alberta age specific fertility rates across time for various age groups, and helps shed light on the two significant findings from the SVD analysis. First, it shows a decrease in the fertility of all mother's age groups except 30 to 34 and 35 and over. Second, it points to a delay effect in childbirth. Declining fertility for women aged 25 to 29, especially from about 1994 to 2000, is followed by a greater increase in fertility of women aged 30 to 34 since 2000. The third finding shows that women aged 20 to 24

[1] The past population projections for Alberta used another model based on the Pearson Type III curve. A comparison of these two approaches can be found in the March 1998 report titled "Modeling Fertility Rates in Alberta and its Health Regions: 1986-1996".

experienced a decline in fertility through the 1990's, and since 2000, women aged 25 to 29 have experienced increased fertility.

Figure 5: Fertility Rate in Alberta, Actual and Projected: Ages 27 to 28, and Ages 32 to 34

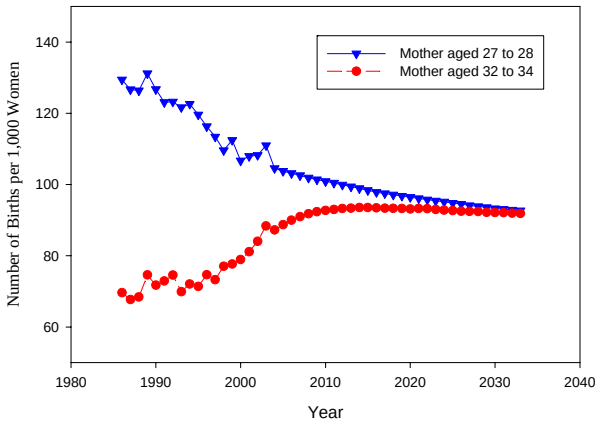
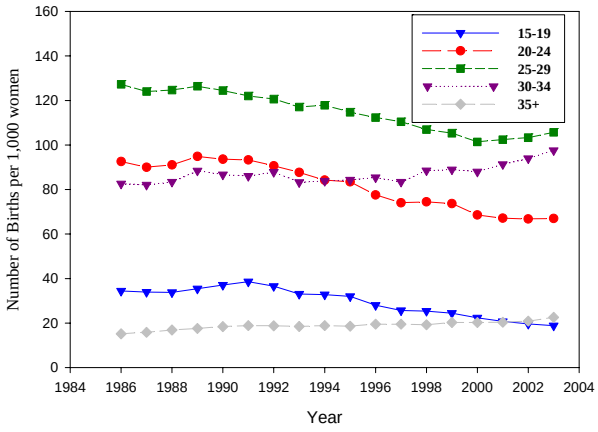


Figure 6: Age-specific Fertility Rates in Alberta: 1986 to 2003



Figures 7 and 8 show the observed and projected total fertility rates for the Calgary and Capital Health Regions respectively. The actual and projected total fertility rates for all health regions are presented in Table 3. Provincial level total fertility rates are shown in Table 7.

Figure 7: Total Fertility Rate in the Calgary Health Region, Actual and Projected

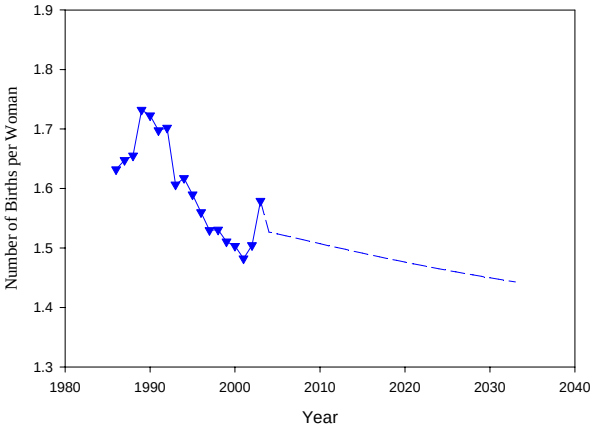
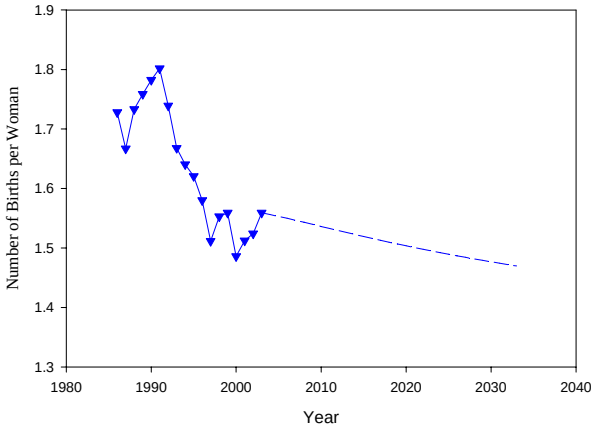


Figure 8: Total Fertility Rate in the Capital Health Region, Actual and Projected

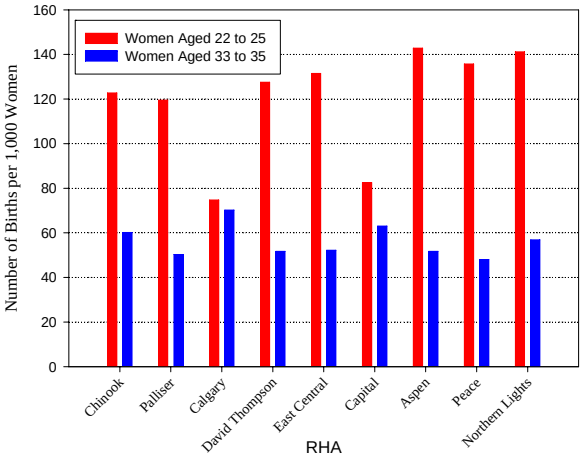


Two findings were revealed from the SVD analysis of health region against age (averaged across years). First, the regions outside of the Calgary and Capital Health Regions have higher fertility rates for women in their mid 20s (approximately ages 22 to 25), while women in their mid 30s (ages 33 to 35) have higher rates within the Calgary and Capital Health Regions. This can be seen in Figure 9.

The second finding shows what appears to be a rural north/south difference in the fertility of young women averaged across years, with the Aspen, Peace, and Northern Lights

Health Regions showing higher fertility for women between the ages of 19 to 20, compared to the Chinook, Palliser, David Thompson, and East Central Health Regions. The northern regions averaged approximately 96 births per 1,000 women aged 19 to 20 over the past 18 years, while the southern regions average 70 births per 1,000 women aged 19 to 20 over the past 18 years. This difference can likely be attributed, at least in part, to the higher proportions of First Nation's populations in the northern regions. These regional differences in fertility across mother's age are assumed to be invariant throughout the projection period.

Figure 9: Fertility Rates by RHA: Ages 22 to 25 and 33 to 35, Averaged Across Years



As is the case for mortality, no regions showed any systematic patterns in overall (i.e. all ages) fertility across the 18 years that would allow for prediction during the projection period.

The proportion of female births to total births is applied in the general cohort component model. The proportion, averaged over the years 1986 to 2003 was found to be 48.44%.

5. Migration

a. Data

Migration data was obtained from population registration data, from the Alberta Health Care Insurance Plan. The key to compiling migration data was to merge population files from two successive years as of June 30 in each year, by individual recipient identifier. Subsequently each Alberta resident can be assigned into one of the following four statuses:

i. NO CHANGE: individual resides on the registry in each year with no change in RHA of residence from one year to the next.
ii. Inter-regional migration (IRM): individual resides on the registry in each year, and has a change in RHA of residence from one year to the next.
iii. NEW: individual does not exist on the registry in the first year, but appears in the second year.
iv. EXIT: individual appears on the registry in the first year, but does not appear in the second year.

Net Migration is split into two components: net inter-regional migration, and net external migration. Migration for individuals aged 0 cannot be split into external and inter-regional migration, but need to be examined as a whole.

Internal migration refers to movement from one health region to another. Net Inter-regional migration for any particular region is defined as the increase in the number of individuals of a particular age into that region, from June 30 of year t-1 to June 29 of year t, from another region of Alberta minus the decrease in the number of individuals of a particular age from that region, into another region of Alberta, from June 30 of year t-1 to June 29 of year t.

Net external migration refers to movement into a region from outside of Alberta, or movement from a region to somewhere outside of Alberta. This combines inter-provincial migration and international migration. Specifically, net external migration for any particular region will be defined as the increase in the number of individuals of a particular age into a region, from June 30 of year t-1 to June 29 of year t, from outside of Alberta minus the decrease in the number of individuals of a particular age from a region, to somewhere out of Alberta, from June 30 of year t-1 to June 29 of year t.

Calculation details for internal and external migration are in Appendix 2.

b. Methodology and Analysis

The analyses of internal and external migration were performed separately, using the singular value decomposition. Details are provided in Appendix 4.

Figure 10 shows the number of people moving inter-regionally in Alberta has fluctuated between 60,000 to 73,000 per year over the past 18 years. The number of people moving inter-regionally is projected to increase steadily over the projection period as the number of the people living in the province continues to increase. Figure 11 shows the average number of people each year moving inter-regionally by age. This number of people moving inter-regionally is greatest for people aged 21 to 25.

Figure 10: Number of People Moving Inter-Regionally in Alberta, Actual and Projected

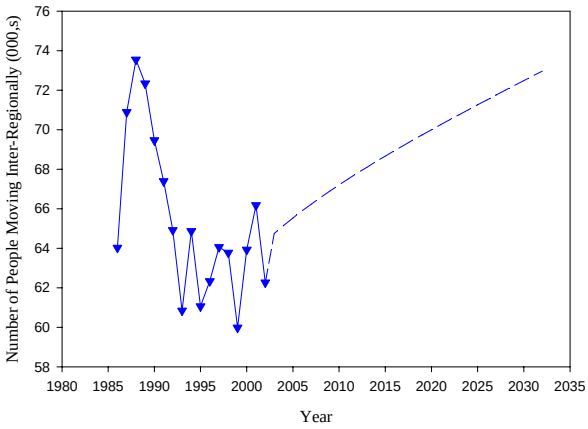
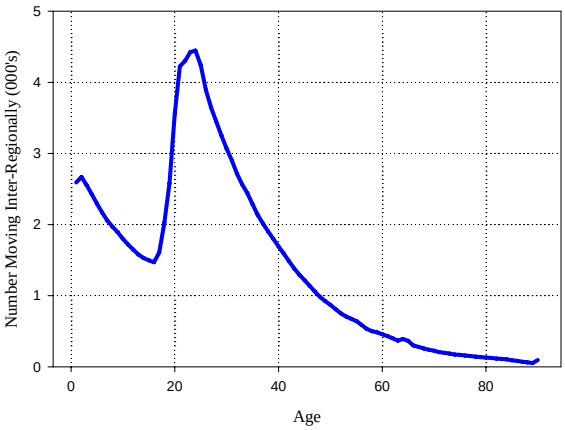


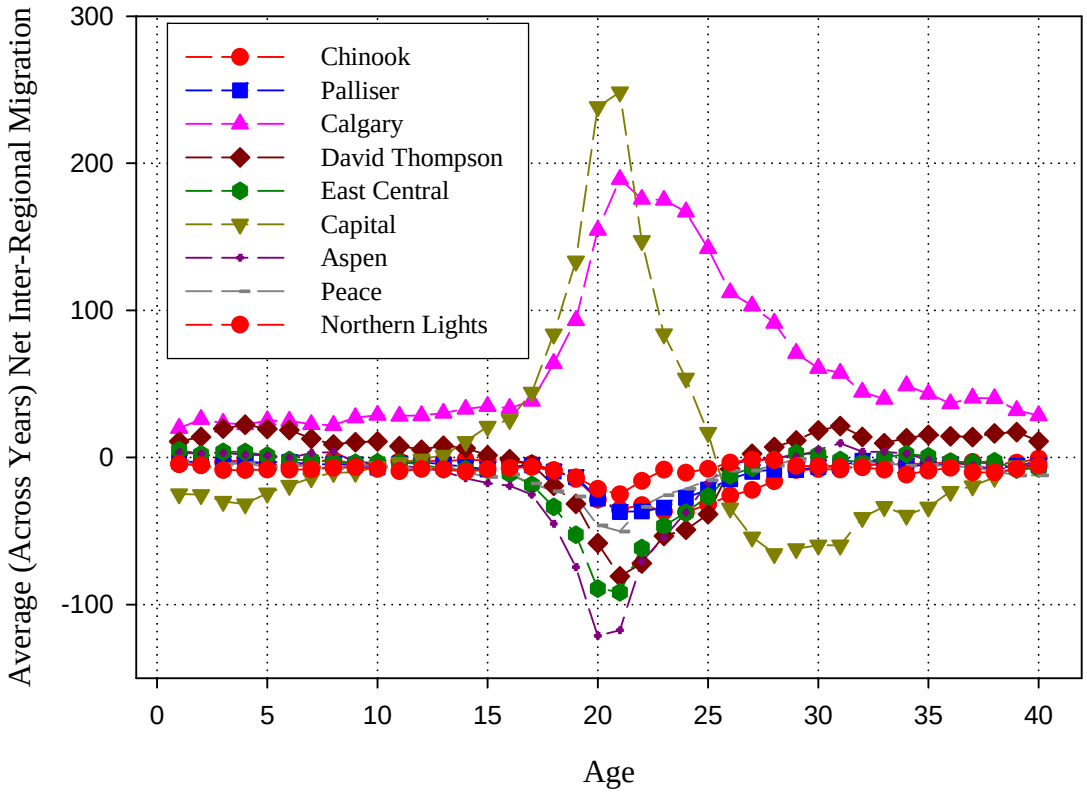
Figure 11: Average Number of People Moving Inter-Regionally each Year from 86/87 to 02/03, By Age



Due to the nature of inter-regional migration (aggregating to zero at a provincial level), inter-regional migration was analyzed and projected separately as inter-regional gains and inter-regional losses. The difference yields net-inter-regional migration by region.

Figure 12 shows the average (across years) net inter-regional migration by age for each health region. In order to simplify the plot, only ages up to 40 are shown. Average net inter-regional migration has been highest in the Calgary Health Region for most ages. From the late teen years to the mid 20's, average net inter-regional migration was highest in the Calgary and Capital Health Regions. Within this cohort however, there is a difference between the two regions. The Capital Health Region shows higher average inter-regional migration for ages 18 to 21, than the Calgary Health Region. This likely reflects both a more blue-collar labor force and a larger University in the Capital Region. The average net inter-regional migration of people 22 to 25 years of age has been higher in Calgary, reflecting a white-collar labor force. Another interesting finding is the high average net internal migration of young children, and their parents (people in their late 20's and early 30's) into the Calgary and David Thompson Health Regions. This family influx appears to have been at the expense of the Capital Health Region.

Figure 12: Average (Across Years) Net Inter-Regional Migration by Age: All Health Regions



Further investigation suggests that a significant reason for the low average net inter-regional migration in the Capital Region of children and people in their late 20's and early 30's is because of the large outflow of people in the mid 1990's. The large negative inter-regional migration amounts in these few years lower the average for the Capital Health Region. Figures 13 and 14 show the net inter-regional migration each year for ages 1 to 5 and 28 to 32, for the Calgary, David Thompson, and Capital Regions. In recent years these three regions have remained relatively close in terms of "family" inter-regional migration.

Figure 13: Net Inter-Regional Migration for People aged 1 to 5, Calgary, David Thompson, and Capital Health Regions, 1986 to 2003

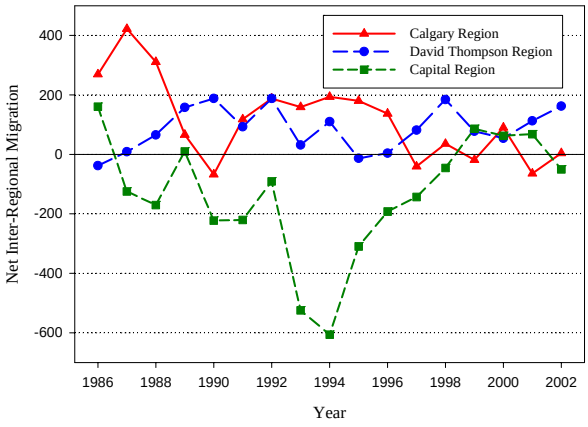
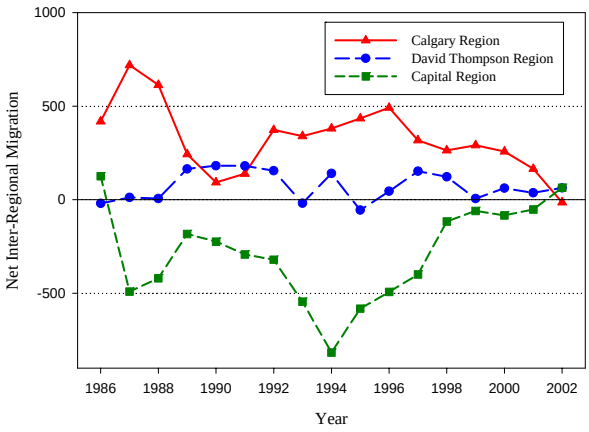


Figure 14: Net Inter-Regional Migration for People aged 28 to 32, Calgary, David Thompson, and Capital Health Regions, 1986 to 2003



The actual and projected trends for net inter-regional migration can be seen in Figure 15. Table 4 shows actual and projected internal migration losses and gains for all regions, along with the net inter-regional migration.

Historically, internal migration out of the Capital Health Region was high in the mid 90's. In recent years, net internal migration has been slightly higher in the Capital Health Region than the Calgary Health Region.

The projections have been constructed such that migration into the Calgary Health Region will remain slightly stronger relative to the Capital Health Region, as was the case in most historical years. Net internal migration will remain positive in the Calgary, Capital, and David Thompson Health Regions at the expense of the other regions. In addition, net migration losses will decline slightly in several of the rural health regions. The projections are based on separate analysis and projections of inter-regional migration gains and losses, so minor differences in the relative change of projected losses and gains for any region are magnified when subtracting the large absolute numbers from each other to generate the net internal migration.

Figure 15: Actual and Projected Net Inter-Regional Migration for the Calgary, Capital, David Thompson, and Other Health Regions

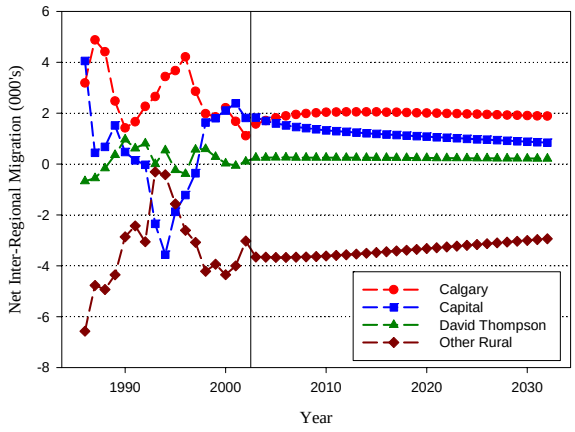


Figure 16 shows actual and projected net external migration in Alberta. Due to the anomalies in registration data described in Section 2, only data from 1993 onwards is included in the analysis for external migration. External migration is strongest for people in their early to mid 20's, around the ages of 22 to 25. Migration into Alberta has remained strong since 1996 and is predicted to remain strong and increase gradually through the projection period, given the province's strong fiscal position and economic outlook.

Figure 16: Net External Migration in Alberta, Actual and Projected

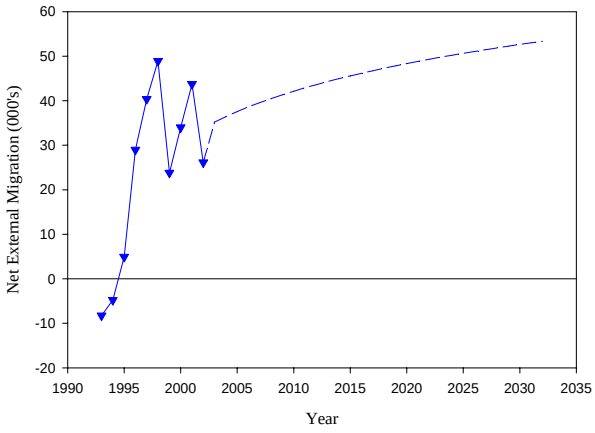
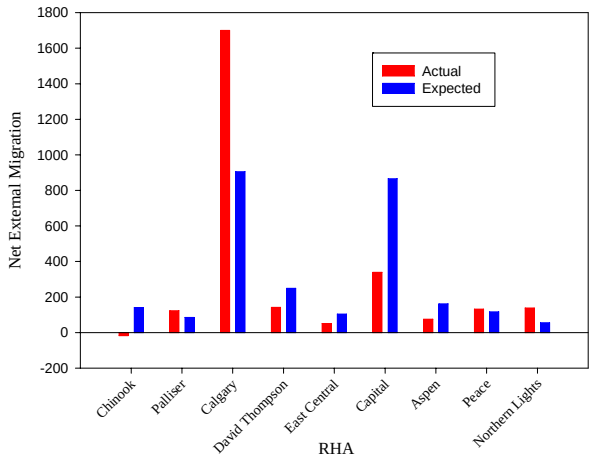


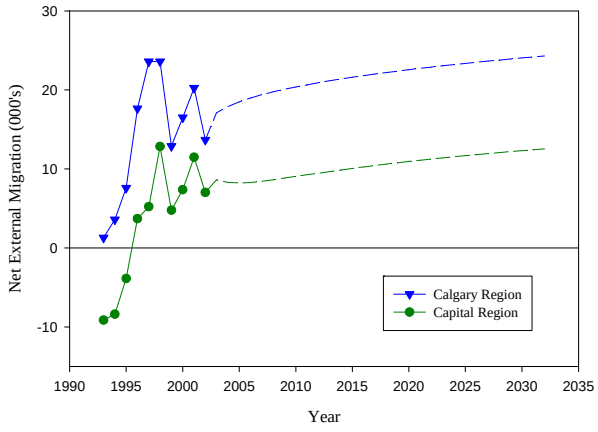
Figure 17 shows greater numbers of people aged 23 to 25 migrate to the Calgary Health Region than to the Capital Health Region. This likely reflects the white-collar nature of the workforce in the Calgary Health Region, with a strong propensity to attract new university graduates. Expected external migration refers to what the migration would be if it occurred solely on the basis of the region's population.

Figure 17: Net External Migration of People age 23 to 25 Averaged across Years, Actual and Projected



Net External migration has been the highest in the Calgary Health Region from 1993 to 2003. This is expected to hold true throughout the projection period. Figure 18 shows actual and projected net external migration for the Calgary and Capital Health Regions. Table 5 contains actual and projected net external migration for Alberta and all Health Regions.

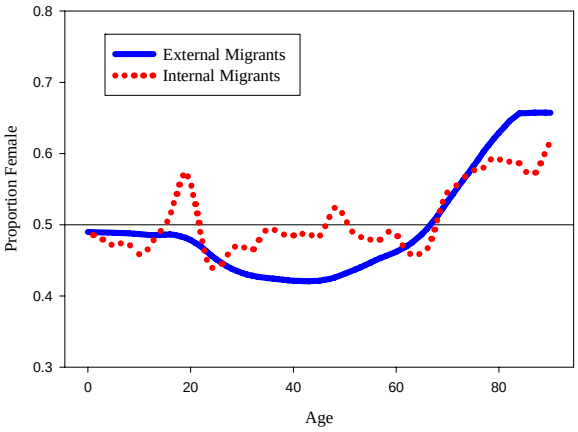
Figure 18: Net External Migration in the Calgary and Capital Health Regions, Actual and Projected



The proportion of female to total migrants was calculated by age for each year. The singular value decomposition was applied to this matrix, and the first vector of age components was then smoothed to generate the proportion of female migrants at each age. The proportion of female migrants is applied in the cohort component model used to

generate the population projections. These proportions are assumed constant across all regions and years. Figure 19 shows the proportions for external and internal migrants across age.

Figure 19: Proportion of Female to Total Migrants by Age: External and Internal Migration



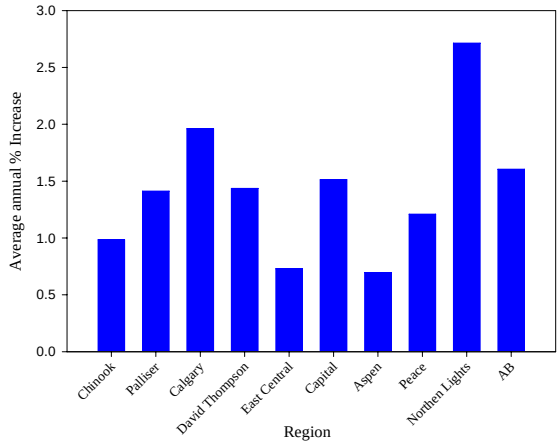
6. Population

The population of Alberta was projected using the cohort component model with the projected inputs for mortality, fertility, and migration described in Sections 2 though 4.

By the year 2033, the population of Alberta is projected to surpass 5 million. The average annual percent increase in population will be about 1.60% per year. The average annual percent increase in Alberta's population from 1999 to 2003 was 1.75% per year. The degree to which this projection will mirror reality is highly dependent on the assumptions for external migration, which is the single largest component of population change.

Figure 20 shows the average annual percentage change in population for Alberta and each Health Region. The projected growth rate is highest in the Northern Lights and Calgary Health regions, and lowest for the East Central and Aspen Health Regions.

Figure 20: Projected Average Annual Percentage Increase for Alberta and its Health Regions, 2003 to 2033



The population of Alberta is projected to continue to age. Figure 21 shows the median age of the population in Alberta projected to exceed 41 by 2033. It was about 29 in 1986. Figure 22 shows the actual and projected dependency ratios for Alberta. The old age dependency ratio, which compares the ratio of people 65 or older to the working-aged population, aged 15-64, is projected to increase steadily over the next 30 years. In 2003, there were about 15 seniors for every 100 working-aged people. By 2033, it is projected there will be about 28 seniors for every 100 working-aged people. The number of seniors is projected to surpass the number of children (less than 15 years of age) by the year 2027.

Figure 21: Actual and Projected Median Age of Population in Alberta, 1986 to 2033

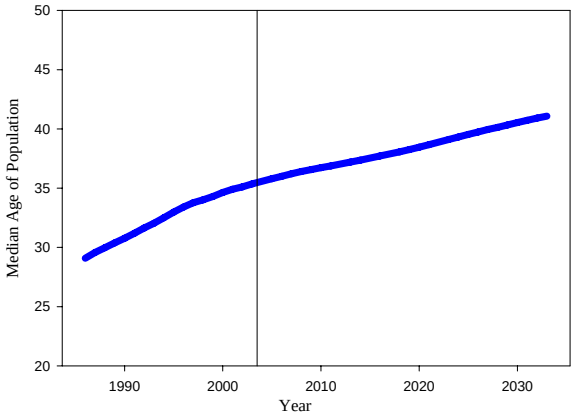
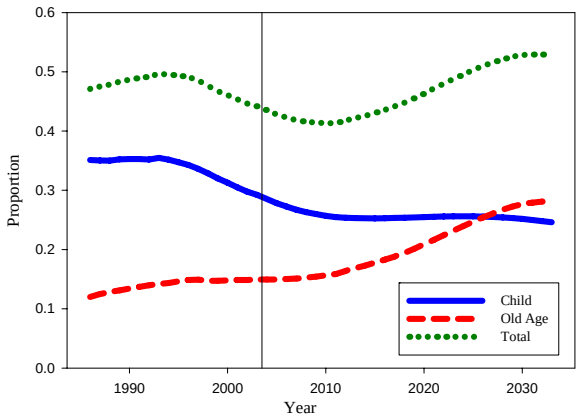


Figure 22: Actual and Projected Dependency Ratios in Alberta, 1986 to 2033



Figures 23 through 26 show a series of population pyramids, one for each ten years, from 2003 to 2033. The sequence of pyramids shows how the age-sex structure of Alberta's population is projected to change over time. In 2003, the majority of the so-called baby boomers were in their late thirties and 40's, while the children of the boomers ranged from around 10 years to their early 20's. The baby boomers and their children can be followed through on each pyramid. By the year 2033, the boomers are in their 70's and the children of the boomers are in their 40's. The pyramids can be seen to be getting more top-heavy as each decade passes, implying an aging population. Population indicators for Alberta are shown in Table 7.

Figure 23: Population Distribution, Alberta, 2003

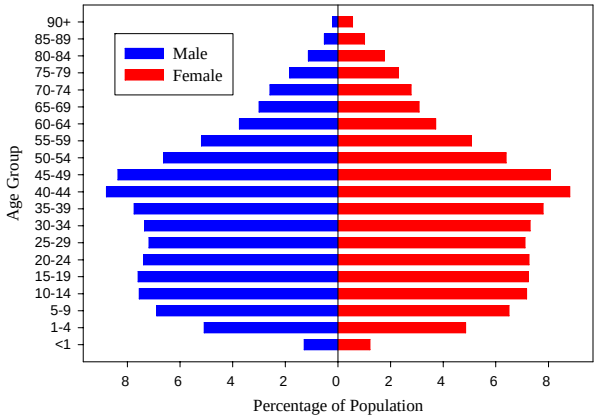


Figure 24: Population Distribution, Alberta, 2013

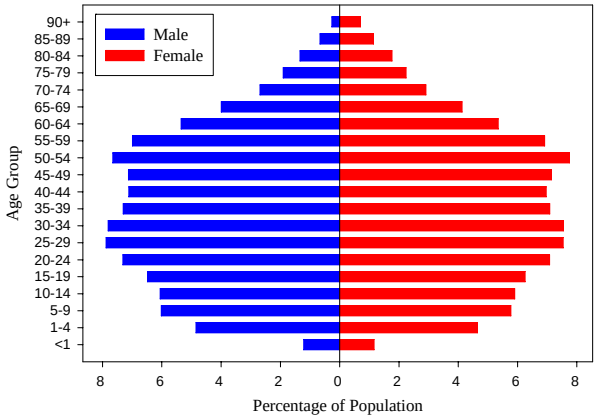


Figure 25: Population Distribution, Alberta, 2023

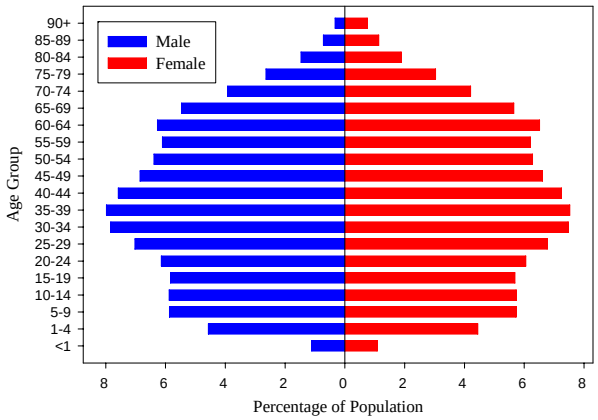
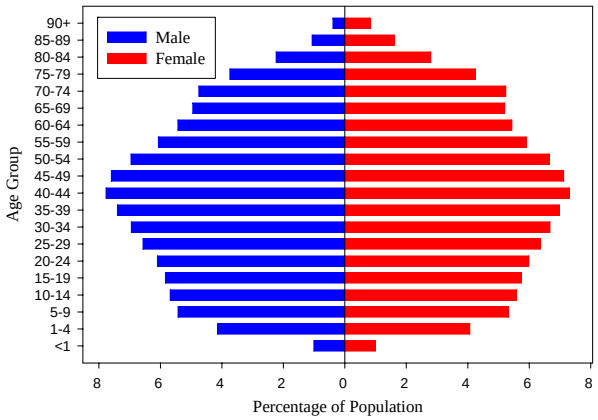


Figure 26: Population Distribution, Alberta, 2033



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Glossary

Child Dependency Ratio is the ratio of children aged less than 15 to people aged 15 to 64, assumed to be in or potentially in the workforce.

Fertility Rate is the number of live births in a year divided by the population of females aged 15 to 44 at mid-year.

Life Expectancy refers to the expected number of years of life remaining to a person of a given age if current mortality rates continue to apply.

Median age is the age, which divides the population into two equal-size groups, one of which is younger and one that is older than the median.

Mortality Rate is the number of deaths in a year divided by the mid-year population

Old Age Dependency Ratio is the ratio of people aged 65 and over to people aged 15 to 64.

Total Dependency Ratio is the sum of the child dependency ratio and old age dependency ratio

Total Fertility Rate is the average number of children a woman would bear if she survived through the end of the reproductive age span and experienced at each age a particular set of age-specific fertility rates. It is calculated by aggregating the age specific fertility rates across all childbearing years.

Appendix 1: The General Cohort-Component Model

The following notation provides the theoretical basis for how the cohort-component model is applied.

1) For ages 1 to 89:

$$P_{x,t} = P_{x-1,t-1} \times S_{x;t-1} + (\tfrac{1}{2} NM_{x-1,t-1,t} + \tfrac{1}{2} NM_{x,t-1,t})$$

Where:

$P_{x,t}$	is the population at age x on June 30 of year t,
$P_{x-1,t-1}$	is the population at age x-1 on June 30 of year t-1,
$NM_{x-1,t-1,t}$	is the net migration of individuals aged x-1 from June 30 of year t-1 to June 30 of year t,
$NM_{x,t-1,t}$	is the net migration of individuals aged x from June 30 of year t-1 to June 30 of year t,
$S_{x;t-1}$	survival rate; the probability that an individual aged x-1 in year t-1 will survive to age x.

Notes:

1) The survival rate is not applied to migrants, since the migration levels already exclude those who migrate to a region in a given year and then die.
2) Suppose one is estimating the population aged 16 as of June 30, 2013. It can be assumed that one half of those who migrated at age 15 in the past year, and one half of those who migrated at age 16 in the past year, would be age 16 on June 30, 2013. This is why migration is averaged, taking one half of those of age x, and one half of those of age x-1.
3) Since the survival rate includes the deaths of new migrants who die (People that are never seen in the registration data but are included in the vital statistics death file), it can be considered a slight overestimate of the survival rate that theoretically should be applied to the base population. This differential is considered to be negligible.
4) The actual values of the age at which someone migrates in not known, since the registry data used is not continuous. The values of net migration used in the formula are estimated using the methodology outlined in Appendix 2.
5) For simplicity, the formulas exclude reference to region and sex. However, it must be kept in mind that the applications of these formulas refer always to a particular region and sex.
6) Survival rates for all calendar years of the projection period are calculated from life tables. Life tables are created from the projected mortality rates (Age-specific Death Rates). The formulas for calculating survival rates are shown at the end of this appendix.

2) For ages 90 and above:

$$P_{90+,t} = (P_{89,t-1} + P_{90+,t-1}) \times S_{90+,t-1} + \tfrac{1}{2} NM_{89,t-1,t} + NM_{90+,t-1,t}$$

Where:

$S_{90+;t-1}$ survival rate; the probability that an individual aged 89 or more in year t-1 will survive to be one year older.

The general population formula for ages 90 and above is a refinement of the formula for ages 1 to 89. The difference here is that all individuals who migrate at age 90+ will all be 90+ in the next year, as opposed to one half for the individuals of aged 89.

3) For age 0:

$$P^{f}_{0,t} = \tfrac{1}{2} (B_{t-1,t} \times p^{f} \times S^{f}_{0,t-1}) + \tfrac{1}{2} (B_{t-1,t} \times p^{f}) + \tfrac{1}{2} NM^{f}_{0,t-1,t}$$

$$P^{m}_{0,t} = \tfrac{1}{2} (B_{t-1,t} \times (1- p^{f}) \times S^{m}_{0,t-1}) + \tfrac{1}{2} (B_{t-1,t} \times (1-p^{f})) + \tfrac{1}{2} NM^{m}_{0,t-1,t}$$

Where:

$P^{f}_{0,t}$ is the female population at age 0 on June 30 of year t,
$B_{t-1,t}$ is the total number of births from June 30 of year t-1 to June 30 of year t.
p^{f} is the ratio of female births to total births,
$NM_{0,t-1,t}$ is the net migration of individuals aged 0 from June 30 of year t-1 to June 30 of year t,
$S^{f}_{0,t-1}$ survival rate; the probability that an individual female newborn in year t-1 will survive to age zero (i.e up to but not including one year of age).
$S^{m}_{0,t-1}$ survival rate; the probability that an individual male newborn in year t-1 will survive to age zero (i.e up to but not including one year of age).

Births are calculated by:

$$B_{t-1,t} = \tfrac{1}{2} (\sum_{x=15}^{44} P^{f}_{x,t-1} \times ASFR_{x,t-1} + \sum_{x=15}^{44} P^{f}_{x,t} \times ASFR_{x,t})$$

Where:

$ASFR_{x,t-1}$ is the age specific fertility rate for females at age x, in calendar year t-1.
$ASFR_{x,t}$ is the age specific fertility rate for females at age x, in calendar year t.

Notes:

1) The survival rate is applied to one half of the births, since it is assumed the births are uniformly distributed across the year. For example, if all births were considered to take place at the very start of the year from June 30 of year t-1 to June 30 of year t, then the survival rate would be applied to all of the births. Conversely, if all births were considered to take place at the very end of the year from June 30 of year t-1 to

June 30 of year t, then the survival rate would not be applied to any of the births. By assuming a uniform distribution throughout the year, it is appropriate to apply the survival rate to one half of the births.

2) Again, the survival rate is not applied to newborn migrants, since the migration levels already exclude those who migrate to a region in a given year and then die within the year.

Survival rates are calculated by:

$S_{0,t-1} = L_0 / 100{,}000$
$S_{1,t-1} = L_1 / L_0$
$S_{2,t-1} = L_2 / L_1$
……
$S_{89,t-1} = L_{89} / L_{88}$
$S_{90+,t-1} = L_{90+} / (L_{89} + L_{90+})$

L_X values are derived from life Tables and represent the total person years lived by a cohort from age x to x+1.

Appendix 2: Calculation Details for Migration

Notation:

Let t-1 and t denote the two successive years of interest.

Let $POP\_IRM_t(age=x, RHA=z)$ = the number of individuals with a status of IRM, who are aged x and reside in RHA z as of June 30 of year t.

Let $POP\_NEW_t(age=x, RHA=z)$ = the number of individuals with a status of NEW, who are aged x and reside in RHA z as of June 30 of year t.

Let $POP\_EXIT_{t-1}(age=x, RHA=z)$ = the number of individuals with a status of EXIT, who are aged x and reside in RHA z as of June 30 of year t-1.

Inter-Regional Migration;

Calculation Details (ages 1 to 89):

Let $IRMG_{t-1,t}(age=x, RHA=z)$ be defined as the number of individuals aged x, who move to RHA z from another RHA in Alberta, between June 30, of year t-1, and June 29 of year t. (i.e. the inter-regional migration gain)

Let $IRML_{t-1,t}(age=x, RHA=z)$ be defined as the number of individuals aged x, who move from RHA z to another RHA in Alberta, between June 30, of year t-1, and June 29 of year t. (i.e. the inter-regional migration loss)

It is not possible, given the current data, to know at what age the individual actually moved from one region to another. For example: a male appears in region 2 on June 30, 1996, at the age of 15, and appears in region 3 on June 30, 1997, at age 16. We assume that it is equally likely that this person moved at the age 15 as he did at the age of 16. Therefore,

$$IRMG_{t-1,t}(age=x, RHA=z) = \tfrac{1}{2}\{POP\_IRM_t(age=x, RHA=z)\} + \tfrac{1}{2}\{POP\_IRM_t(age=x+1, RHA=z)\}$$

For example; to calculate the number of males who moved into region 2 from June, 1995 to June, 1996 at the age of 15, we would average one half of the individuals, with a status of IRM, who were aged 15 on June 30, 1996, and one half of the individuals, with a status of IRM, who were aged 16 on June 30, 1996.

Similarly,

$$IRML_{t-1,t}(age=x, RHA=z) = \tfrac{1}{2}\{POP\_IRM_{t-1}(age=x, RHA=z)\} + \tfrac{1}{2}\{POP\_IRM_{t-1}(age=x-1, RHA=z)\}$$

It follows that; $NETIRM_{t-1,t}(age=x, RHA=z)$
$= IRMG_{t-1,t}(age=x, RHA=z) - IRML_{t-1,t}(age=x, RHA=z)$,

where $NETIRM_{t-1,t}(age=x, RHA=z)$ is the net inter-regional migration of individuals aged x in RHA z from June30 of year t-1 to June 30 of year t.

The data for net inter-regional migration is not based on calendar year, as in the case of mortality rates and fertility rates. Each value, historical and projected, of net inter-regional migration will reflect migration levels from June 30 to June 29 of two successive years.

Calculation Details (ages 90+):

For the open-ended age group 90+, the calculation for net inter-regional migration is calculated as follows:

$IRMG_{t-1,t}(age=90+, RHA=z)$
$= ½ \{POP\_IRM_t(age=90, RHA=z)\} + \{POP\_IRM_t(age=91+, RHA=z)\}$

and

$IRML_{t-1,t}(age=90+, RHA=z)$
$= ½ \{POP\_IRM_{t-1}(age=89, RHA=z)\} + \{POP\_IRM_{t-1}(age=90+, RHA=z)\}$

External Migration;

Calculation Details (ages 1 to 89):

Let $EXMG_{t-1,t}(age=x, RHA=z)$ be defined as the number of individuals aged x, who move to RHA z from outside of Alberta, between June 30, of year t-1, and June 29 of year t. (i.e. the external migration gain).

Let $EXML_{t-1,t}(age=x, RHA=z)$ be defined as the number of individuals aged x, who move from RHA z to somewhere outside of Alberta, between June 30, of year t-1, and June 29 of year t. (i.e. the external migration loss).

Let $DTHS_{t,-1t}(age=x, RHA=z)$ be defined as the number of deaths from June 30 of year t-1 to June 29 of year t, of individuals aged x in RHA z.

$EXMG_{t-1,t}(age=x, RHA=z)$
$= ½ \{POP\_NEW_t(age=x, RHA=z)\} + ½ \{POP\_NEW_t(age=x+1, RHA=z)\}$

$EXML_{t-1,t}(age=x, RHA=z)$
$= ½ \{POP\_EXIT_{t-1}(age=x, RHA=z)\} + ½ \{POP\_EXIT_{t-1}(age=x-1,RHA=z)\} - DTHS_{t-1,t}(age=x, RHA=z)$

It follows that; $NETEXM_{t-1,t}(age=x, RHA=z)$
$= EXMG_{t-1,t}(age=x, RHA=z) - EXML_{t-1,t}(age=x, RHA=z)$,

where $NETEXM_{t-1,t}(age=x, RHA=z)$ is the net external migration of individuals aged x in RHA z from June30 of year t-1 to June 29 of year t.

As a final note, overall net migration can be broken into various components as follows:

$NM_{t-1,t}(age=x, RHA=z) = NETIRM_{t-1,t}(age=x, RHA=z) + NETEXM_{t-1,t}(age=x, RHA=z)$
$= \{IRMG_{t-1,t}(age=x, RHA=z) - IRML_{t-1,t}(age=x, RHA=z)\}+$
$\{EXMG_{t-1,t}(age=x, RHA=z) - EXML_{t-1,t}(age=x, RHA=z)\}$

$= ½ \{POP\_IRM_t(age=x, RHA=z)\} + ½ \{POP\_IRM_t(age=x+1, RHA=z)\} –$
$½ \{POP\_IRM_{t-1}(age=x, RHA=z)\} + ½ \{POP\_IRM_{t-1}(age=x-1, RHA=z)\} +$
$½ \{POP\_NEW_t(age=x, RHA=z)\} + ½ \{ POP\_NEW_t(age=x+1, RHA=z)\} -$
$½ \{POP\_EXIT_{t-1}(age=x, RHA=z)\} - ½ \{ POP\_EXIT_{t-1}(age=x-1, RHA=z)\}+$
$DTHS_{t-1,t}(age=x, RHA=z)$

Calculation Details (ages 90+):

$EXMG_{t-1,t}(age=90+,RHA=z)$
$= ½ \{POP\_NEW_t(age=90, RHA=z)\} + \{POP\_NEW_t(age=91+, RHA=z)\}$

$EXML_{t,t-1}(age=90+, RHA=z)$
$= ½ \{POP\_EXIT_{t-1}(age=89, RHA=z)\} + \{POP\_EXIT_{t-1}(age=90+, RHA=z)\}$
$- DTHS_{t-1,t}(age=90+, RHA=z)$

<u>Net Migration for age=0;</u>

The calculation for net migration of individuals' aged 0 is more involved than for those between 1 and 89 years. The majority of individuals aged 0 with a status of NEW, are not migrants, but new births. Also one cannot determine if a new individual at age 0, that is not a new birth, is actually migrating from another RHA or from outside of Alberta.

Calculation Details:

Let $NMG_{t-1,t}(age=0, RHA=z)$ be defined as the number of individuals aged 0, who move to RHA z from somewhere outside of RHA z, between June 30, of year t-1, and June 29 of year t. (i.e. the net migration gain of individuals aged 0).

Let $NML_{t-1,t}(age=0, RHA=z)$ is defined as the number of individuals aged 0, who leave RHA z to somewhere outside of RHA z, between June 30, of year t-1, and June 29 of year t. (i.e. the net migration loss of individuals aged 0).

Net migration is then calculated as:

$NM_{t-1,t}(age=0, RHA=z) = NMG_{t-1,t}(age=0, RHA=z) - NML_{t-1,t}(age=0, RHA=z)$
where

$NMG_{t-1,t}(age=0, RHA=z) = ½ \{POP\_NEW_t(age=1, RHA=z)\} + \{POP\_NEW_t(age=0, RHA=z)\} + ½ \{POP\_IRM_t(age=1, RHA=z)\} – BRTH_{t-1,t}(RHA=z)$

$NML_{t-1,t}(age=0, RHA=z) = ½ \{POP\_EXIT_{t-1}(age=0, RHA=z)\} + ½ \{POP\_IRM_{t-1}(age=0, RHA=z)\} - DTHS_{t-1,t}(age=0, RHA=z \mid DOB < \text{June 30 of t-1})$*

*not all deaths for individuals aged 0 should be included, but only the deaths of those aged 0, whose date of birth was prior to June 30 of year t-1. This is to avoid subtracting off the death of infants who were both born and died within the period from June 30 of year t-1 to June 29 of year t.

Appendix 3: The Singular Value Decomposition

There is a sizeable amount of data that needs to be analyzed and understood in order to derive reasonable estimates of future population change (mortality, fertility, and migration) for use in the cohort-component model. (i.e. 9 health regions, 91 age categories, 2 sexes, and 18 years of data resulting in 29,484 age-sex specific death rates alone).

The Singular Value Decomposition (SVD) decomposes a matrix into three matrices. For example if A is an m x n real matrix with m > n then A has the form

$$A = U D V^T$$

Where U is an m by n matrix, V is a square matrix; both having orthogonal columns (i.e. $U^TU = V^TV = I$. D is an n by n diagonal matrix. Typically the matrices are organized such that the values of the diagonal of D are decreasing.

If the values of the diagonal of D are decreasing, a model with significantly lower rank may be able to adequately reproduce the original matrix A. To illustrate, suppose A is a 91 by 18 (single year of ages by years) matrix of mortality rates. Applying the SVD to the matrix A, results in matrix of age parameters (U = 91 by 18), a matrix of singular values (D = 18 by 18) and a matrix of time parameters (V = 18 by 18). Using the first vectors of U and V, and the first element of the diagonal of D, will result in an estimate of the matrix A. If the first singular value is high in proportion to the total of all the singular values, the estimated matrix will explain a high proportion of the variation in A. Adding more vectors will improve the estimate of A, until eventually including all vectors will completely reproduce A.

This approach has great appeal because the coefficients of only a few time components may need to be projected to reproduce the projected values for A.

The methodology for using the SVD to model mortality rates, fertility rates, internal migration, and external migration is detailed in Appendix 4.

Appendix 4: Methodology for Modeling Population Components

The methodology for modeling and projecting regional mortality rates by single year of age and sex, is summarized in the following steps.

For each sex:

1) Construct an array of mortality rates M_{ijk} where

   i ranges across year of age from 1 to I,
   j ranges across different regions, 1 to J,
   k ranges across different calendar years 1 to K.

   $M_{ijk} = \frac{D_{ijk}}{P_{ijk}}$, where D_{ijk} is the number of deaths of those aged i years in region j in year k, and P_{ijk} is the population of those aged i years in region j in year k.

2) Collapse the array of mortality rates across regions to generate a matrix of provincial mortality rates

$$M_{i.k} = \frac{\sum_{j=1}^{J} D_{ijk}}{\sum_{j=1}^{J} P_{ijk}}$$

3) Compute the log-centered matrix of mortality rates, according to the method of Lee and Carter

$$L_{i.k} = \ln(M_{i.k}) - \frac{\sum_{k=1}^{K} \ln(M_{i.k})}{K}$$

4) Apply the singular value decomposition to $L_{i.k}$, giving

   $L_{i.k} = AD\,Y'$, where A is an I by K matrix of age components, D is a K by K matrix of singular values, and Y is a K by K matrix of time components.

5) Determine the number of components, N, needed to appropriately reproduce the matrix $L_{i.k}$

$$\hat{L}_{i.k} = \sum_{n=1}^{N} A_n D_n Y'_n$$

A_n is the n^{th} component (column) of A, D_n is the n^{th} element along the ordered diagonal of singular values of D, and Y_n is the n^{th} component of Y.

6) Adjust backwards to original units

$$\hat{M}_{i.k} = \exp\{ \hat{L}_{i.k} + \frac{\sum_{k=1}^{K} \ln(M_{i.k})}{K} \}$$

7) Uncollapse the values of $\hat{M}_{i.k}$ across J regions so

$C1_{ijk} = \hat{M}_{i.k}$ for all values of j = 1 to J

8) Compute the array of residuals $RES1_{ijk} = M_{ijk} - C1_{ijk}$

9) Collapse $RES1_{ijk}$ across K years

$$RES1_{ij.} = \frac{\sum_{k=1}^{K} RES1_{ijk}}{K}$$

10) Apply the singular value decomposition to $RES1_{ij.}$, giving

$RES1_{ij.} = ADR'$, where A is an I by J matrix of age components, D is a J by J matrix of singular values, and R is a J by J matrix of RHA components.

11) Determine the number of components, N, needed to appropriately reproduce the matrix $RES1_{ij.}$

$$\hat{RES1}_{ij.} = \sum_{n=1}^{N} A_n D_n R'_n$$

A_n is the n^{th} component (column) of A, D_n is the n^{th} element along the ordered diagonal of singular values of D, and R_n is the n^{th} component of R.

12) Uncollapse the values of $\hat{RES1}_{ij.}$ across k years so $C2_{ijk} = \hat{RES1}_{ij.}$ for all k=1 to K.

13) Compute the array of residuals $RES2_{ijk} = RES1_{ijk} - C2_{ijk.}$

14) Collapse $RES2_{ijk}$ across I ages by applying a weighted average,

If $W_{ijk} = \frac{P_{ijk}}{\sum_{i=1}^{I} P_{ijk}}$ is the weight at each age, then $RES2_{.jk} = \sum_{i=1}^{I} W_{ijk} \times RES2_{ijk}$

15) Apply the SVD to $RES2_{.jk}$ (apply SVD to the K by J matrix since J < K)

$RES2_{.jk} = YDR'$, where Y is an K by J matrix of time components, D is a J by J matrix of singular values, and R is a J by J matrix of region components.

16) Determine the number of components, N, needed to appropriately reproduce the matrix $RES2_{.jk}$

$$\hat{RES2}_{.jk} = \sum_{n=1}^{N} Y_n D_n R'_n$$

Y_n is the n^{th} component (column) of Y, D_n is the n^{th} element along the ordered diagonal of singular values of D, and R_n is the n^{th} component of R.

17) Uncollapse the values of $\hat{RES2}_{.jk}$ across I years of age
so $C3_{ijk} = \hat{RES2}_{.jk}$ for all i=1 to I.

18) The original matrix of mortality rates M_{ijk} is then estimated as

$\hat{M}_{ijk} = C1_{ijk} + C2_{ijk} + C3_{ijk}$, where C1 describes how provincial level mortality over time changes with age; C2 describes regional differences of mortality against age, and C3 describes how mortality over time changes across regions.

19) The final step is to project the time components forward p years, throughout the projection period. $C1_{ijk}$ and $C3_{ijk}$ are generated for the k=K+1 to k=K+p future years using the projected values of the time components, while $C2_{ijk}$ remains invariant throughout the projection period. The projected arrays of mortality rates are then calculated as

$\hat{M}_{ijk} = C1_{ijk} + C2_{ijk} + C3_{ijk}$ for all k=K+1 to K+p

The methodology for modeling and projecting regional fertility rates by mother's year of age, is summarized in the following steps.

1) Construct an array of fertility rates F_{ijk} where

   i ranges across mother's year of age from 1 to I,
   j ranges across different regions, 1 to J,
   k ranges across different calendar years 1 to K.

   $F_{ijk} = \frac{B_{ijk}}{P_{ijk}}$, where B_{ijk} is the number of births to women of age i years in region j in year k, and P_{ijk} is the population of females aged i years in region j in year k.

2) Collapse the array of fertility rates across regions to generate a matrix of provincial fertility rates

$$F_{i.k} = \frac{\sum_{j=1}^{J} B_{ijk}}{\sum_{j=1}^{J} P_{ijk}}$$

3) Apply the singular value decomposition to $F_{i.k}$, giving

   $F_{i.k} = ADY'$, where A is an I by K matrix of mother's age components, D is a K by K matrix of singular values, and Y is a K by K matrix of time components.

4) Determine the number of components, N, needed to appropriately reproduce the matrix $F_{i.k}$

$$\hat{F}_{i.k} = \sum_{n=1}^{N} A_n D_n Y'_n$$

   A_n is the n^{th} component (column) of A, D_n is the n^{th} element along the ordered diagonal of singular values of D, and Y_n is the n^{th} component of Y.

5) Uncollapse the values of $\hat{F}_{i.k}$ across J regions so

   $C1_{ijk} = \hat{F}_{i.k}$ for all values of j = 1 to J

6) Compute the array of residuals $RES1_{ijk} = F_{ijk} - C1_{ijk}$

7) Collapse $RES1_{ijk}$ across K years

$$RES1_{ij.} = \frac{\sum_{k=1}^{K} RES1_{ijk}}{K}$$

8) Apply the singular value decomposition to $RES1_{ij.}$, giving

   $RES1_{ij.} = ADR'$, where A is an I by J matrix of age components, D is a J by J matrix of singular values, and R is a J by J matrix of RHA components.

9) Determine the number of components, N, needed to appropriately reproduce the matrix $RES1_{ij.}$

$$\hat{RES}1_{ij.} = \sum_{n=1}^{N} A_n D_n R'_n$$

   A_n is the n^{th} component (column) of A, D_n is the n^{th} element along the ordered diagonal of singular values of D, and R_n is the n^{th} component of R.

10) Uncollapse the values of $\hat{RES}1_{ij.}$ across k years so $C2_{ijk} = \hat{RES}1_{ij.}$ for all k=1 to K.

11) Compute the array of residuals $RES2_{ijk} = RES1_{ijk} - C2_{ijk.}$

12) Collapse $RES2_{ijk}$ across I ages by applying a weighted average,

   If $W_{ijk} = \frac{P_{ijk}}{\sum_{i=1}^{I} P_{ijk}}$ is the weight at each age, P_{ijk} is the population of females aged i years in region j in year k, then $RES2_{.jk} = \sum_{i=1}^{I} W_{ijk} \times RES2_{ijk}$

13) Apply the SVD to $RES2_{.jk}$ (apply SVD to the K by J matrix since J < K)

   $RES2_{.jk} = YDR'$, where Y is an K by J matrix of time components, D is a J by J matrix of singular values, and R is a J by J matrix of region components.

14) Determine the number of components, N, needed to appropriately reproduce the matrix $RES2_{.jk}$

$$\hat{RES}2_{.jk} = \sum_{n=1}^{N} Y_n D_n R'_n$$

   Y_n is the n^{th} component (column) of Y, D_n is the n^{th} element along the ordered diagonal of singular values of D, and R_n is the n^{th} component of R.

15) Uncollapse the values of $\hat{RES2}_{.jk}$ across I years of age so $C3_{ijk} = \hat{RES2}_{.jk}$ for all i=1 to I.

16) The original matrix of fertility rates F_{ijk} is then estimated as

$\hat{F}_{ijk} = C1_{ijk} + C2_{ijk} + C3_{ijk}$, where C1 describes how provincial level fertility over time changes with mother's age; C2 describes regional differences of fertility against mother's age, and C3 describes how fertility over time changes across regions.

17) The final step is to project the time components forward p years, throughout the projection period. $C1_{ijk}$ and $C3_{ijk}$ are generated for the k=K+1 to k=K+p future years using the projected values of the time components, while $C2_{ijk}$ remains invariant throughout the projection period. The projected arrays of fertility rates are then calculated as

$\hat{F}_{ijk} = C1_{ijk} + C2_{ijk} + C3_{ijk}$ for all k=K+1 to K+p

The methodology for modeling and projecting inter-regional migration losses by year of age, is summarized in the following steps.

1) Construct an array of inter-regional migration losses $IRML_{ijk}$ where

   i ranges across year of age from 1 to I,
   j ranges across different regions, 1 to J,
   k ranges across different calendar years 1 to K.

   Detail about the calculation of IRML is in Appendix 2.

2) Collapse the array of inter-regional migration losses across regions to generate a matrix of provincial inter-regional migration (i.e. the number of people moving inter-regionally in Alberta)

$$IRML_{i.k} = \sum_{j=1}^{J} IRML_{ijk}$$

3) Apply the singular value decomposition to $IRML_{i.k}$, giving

   $IRML_{i.k} = AD\,Y'$, where A is an I by K matrix of age components, D is a K by K matrix of singular values, and Y is a K by K matrix of time components.

4) Determine the number of components, N, needed to appropriately reproduce the matrix $IRML_{i.k}$

$$\hat{IRML}_{i.k} = \sum_{n=1}^{N} A_n D_n Y'_n$$

   A_n is the n^{th} component (column) of A, D_n is the n^{th} element along the ordered diagonal of singular values of D, and Y_n is the n^{th} component of Y.

5) Distribute the values of $\hat{IRML}_{i.k}$ across J regions according to the regions population distribution

   $C1_{ijk} = \hat{IRML}_{i.k} \times W_{.j.}$ for all values of j = 1 to J, where

$$W_{.j.} = \sum_{k=1}^{K}\sum_{i=1}^{I} P_{ijk} \;/\; \sum_{k=1}^{K}\sum_{j=1}^{J}\sum_{i=1}^{I} P_{ijk}$$

   $W_{.j.}$ is constant across all i and k in each region.

6) Compute the array of residuals $RES1_{ijk} = IRML_{ijk} - C1_{ijk}$

7) Collapse $RES1_{ijk}$ across K years

$$RES1_{ij.} = \frac{\sum_{k=1}^{K} RES1_{ijk}}{K}$$

8) Apply the singular value decomposition to $RES1_{ij.}$, giving

$RES1_{ij.} = ADR'$, where A is an I by J matrix of age components, D is a J by J matrix of singular values, and R is a J by J matrix of RHA components.

9) Determine the number of components, N, needed to appropriately reproduce the matrix $RES1_{ij.}$

$$\hat{RES}1_{ij.} = \sum_{n=1}^{N} A_n D_n R'_n$$

A_n is the n^{th} component (column) of A, D_n is the n^{th} element along the ordered diagonal of singular values of D, and R_n is the n^{th} component of R.

10) Uncollapse the values of $\hat{RES}1_{ij.}$ across k years so $C2_{ijk} = \hat{RES}1_{ij.}$ for all k=1 to K.

11) Compute the array of residuals $RES2_{ijk} = RES1_{ijk} - C2_{ijk.}$

12) Collapse $RES2_{ijk}$ across I ages by summing across ages,

$$RES2._{jk} = \sum_{i=1}^{I} RES2_{ijk}$$

13) Apply the SVD to $RES2._{jk}$ (apply SVD to the K by J matrix since J < K)

$RES2._{jk} = YDR'$, where Y is an K by J matrix of time components, D is a J by J matrix of singular values, and R is a J by J matrix of region components.

14) Determine the number of components, N, needed to appropriately reproduce the matrix $RES2_{.jk}$

$$\hat{RES}2_{.jk} = \sum_{n=1}^{N} Y_n D_n R'_n$$

Y_n is the n^{th} component (column) of Y, D_n is the n^{th} element along the ordered diagonal of singular values of D, and R_n is the n^{th} component of R.

15) Distribute the values of $\hat{RES}2_{.jk}$ across I years of age so

$C3_{ijk} = \hat{RES}2_{.jk} \times W_{ij.}$ for all i=1 to I, j=1 to J,

where $W_{ij.} = \sum_{k=1}^{K} P_{ijk} \; / \; \sum_{k=1}^{K}\sum_{i=1}^{I} P_{ijk}$

16) The original matrix of inter-regional migration losses $IRML_{ijk}$ is then estimated as

$\hat{IRML}_{ijk} = C1_{ijk} + C2_{ijk} + C3_{ijk}$, where C1 describes how total people moving inter-regionally over time changes with year of age; C2 describes how regional inter-regional migration losses vary across year of age, and C3 describes how regional inter-regional migration losses change over time.

17) The final step is to project the time components forward p years, throughout the projection period. $C1_{ijk}$ and $C3_{ijk}$ are generated for the k=K+1 to k=K+p future years using the projected values of the time components, while $C2_{ijk}$ remains invariant throughout the projection period. The projected arrays of inter-regional migration losses are then calculated as

$\hat{IRML}_{ijk} = C1_{ijk} + C2_{ijk} + C3_{ijk}$ for all k=K+1 to K+p

18) Inter-regional migration gains are handles in the same manner as losses, except in step 5, when distributing total people moving inter-regionally across regions, the allocations are applied differently.

For losses, the total number of people moving inter-regionally is allocated based on the region's population, assuming that inter-regional losses in a region would, all things being equal, occur based on a regions population. If the losses are distributed in this manner, then gains are distributed differently, namely

$C1_{ijk} = \hat{IRMG}_{i.k} \times Q_{j.}$ for all values of j = 1 to J, where

$Q_{j.} = \sum_{z \neq j} \{W_{.z.} \times W_{.j.} / (\sum_{z \neq j} W_{.z.})\}$ where

$W_{.j.} = \sum_{k=1}^{K}\sum_{i=1}^{I} P_{ijk} \; / \; \sum_{k=1}^{K}\sum_{j=1}^{J}\sum_{i=1}^{I} P_{ijk}$

The methodology for modeling and projecting net external migration by year of age, is summarized in the following steps.

1) Construct an array of net external migration amounts, $NEXM_{ijk}$ where

   i ranges across year of age from 1 to I,
   j ranges across different regions, 1 to J,
   k ranges across different calendar years 1 to K.

   Detail about the calculation of NEXM is in Appendix 2.

2) Collapse the array of net external migration amounts across regions to generate a matrix of provincial net external migration amounts

   $$NEXM_{i.k} = \sum_{j=1}^{J} NEXM_{ijk}$$

3) Apply the singular value decomposition to $NEXM_{i.k}$, giving

   $NEXM_{i.k} = AD\,Y'$, where A is an I by K matrix of age components, D is a K by K matrix of singular values, and Y is a K by K matrix of time components.

4) Determine the number of components, N, needed to appropriately reproduce the matrix $NEXM_{i.k}$

   $$\hat{NEXM}_{i.k} = \sum_{n=1}^{N} A_n D_n Y'_n$$

   A_n is the n^{th} component (column) of A, D_n is the n^{th} element along the ordered diagonal of singular values of D, and Y_n is the n^{th} component of Y.

5) Distribute the values of $\hat{NEXM}_{i.k}$ across J regions according to the regions population distribution

   $C1_{ijk} = \hat{NEXM}_{i.k} \times W_{.j.}$ for all values of j = 1 to J, where

   $$W_{.j.} = \sum_{k=1}^{K}\sum_{i=1}^{I} P_{ijk} \;/\; \sum_{k=1}^{K}\sum_{j=1}^{J}\sum_{i=1}^{I} P_{ijk}$$

   $W_{.j.}$ is constant across all i and k in each region.

6) Compute the array of residuals $RES1_{ijk} = NEXM_{ijk} - C1_{ijk}$

7) Collapse $RES1_{ijk}$ across K years

$$RES1_{ij.} = \frac{\sum_{k=1}^{K} RES1_{ijk}}{K}$$

8) Apply the singular value decomposition to $RES1_{ij.}$, giving

   $RES1_{ij.} = ADR'$, where A is an I by J matrix of age components, D is a J by J matrix of singular values, and R is a J by J matrix of RHA components.

9) Determine the number of components, N, needed to appropriately reproduce the matrix $RES1_{ij.}$

$$\hat{RES}1_{ij.} = \sum_{n=1}^{N} A_n D_n R'_n$$

   A_n is the n^{th} component (column) of A, D_n is the n^{th} element along the ordered diagonal of singular values of D, and R_n is the n^{th} component of R.

10) Uncollapse the values of $\hat{RES}1_{ij.}$ across k years so $C2_{ijk} = \hat{RES}1_{ij.}$ for all k=1 to K.

11) Compute the array of residuals $RES2_{ijk} = RES1_{ijk} - C2_{ijk.}$

12) Collapse $RES2_{ijk}$ across I ages by summing across ages,

$$RES2_{.jk} = \sum_{i=1}^{I} RES2_{ijk}$$

13) Apply the SVD to $RES2_{.jk}$ (apply SVD to the K by J matrix since J < K)

   $RES2_{.jk} = YDR'$, where Y is an K by J matrix of time components, D is a J by J matrix of singular values, and R is a J by J matrix of region components.

14) Determine the number of components, N, needed to appropriately reproduce the matrix $RES2_{.jk}$

$$\hat{RES}2_{.jk} = \sum_{n=1}^{N} Y_n D_n R'_n$$

   Y_n is the n^{th} component (column) of Y, D_n is the n^{th} element along the ordered diagonal of singular values of D, and R_n is the n^{th} component of R.

15) Distribute the values of $\hat{RES}2_{.jk}$ across I years of age so

   $C3_{ijk} = \hat{RES}2_{.jk} \times W_{ij.}$ for all i=1 to I, j=1 to J,

where $W_{ij.} = \sum_{k=1}^{K} P_{ijk} \; / \; \sum_{k=1}^{K}\sum_{i=1}^{I} P_{ijk}$

16) The original matrix of net external migration amounts, $NEXM_{ijk}$ is then estimated as

$\hat{NEXM}_{ijk} = C1_{ijk} + C2_{ijk} + C3_{ijk}$, where C1 describes the variation of provincial net external migration over time changes and age; C2 describes how net external migration varies across regions and year of age, and C3 describes how net external migration varies across regions and time.

17) The final step is to project the time components forward p years, throughout the projection period. $C1_{ijk}$ and $C3_{ijk}$ are generated for the k=K+1 to k=K+p future years using the projected values of the time components, while $C2_{ijk}$ remains invariant throughout the projection period. The projected arrays of inter-regional migration losses are then calculated as

$\hat{NEXM}_{ijk} = C1_{ijk} + C2_{ijk} + C3_{ijk}$ for all k=K+1 to K+p

Table 1: Female Life Expectancy at Birth [2]

Actual and Projected Life Expectancy by Health Region: Female

Year	Region 1	Region 2	Region 3	Region 4	Region 5	Region 6	Region 7	Region 8	Region 9
1986	79.88	81.86	80.34	78.25	80.41	80.28	78.79	78.61	79.66
1987	80.83	80.60	81.24	79.19	81.15	80.96	79.35	80.36	78.85
1988	80.21	81.08	80.74	79.16	83.48	80.71	80.26	79.21	80.86
1989	80.56	81.22	81.37	79.54	81.24	81.07	80.49	80.36	83.57
1990	81.49	80.53	81.66	80.01	83.21	81.49	79.16	80.83	82.56
1991	81.82	80.06	81.51	80.87	81.99	81.52	80.30	80.12	82.88
1992	81.45	82.28	81.97	79.88	80.54	81.10	80.44	82.27	81.23
1993	80.67	81.05	81.22	79.51	80.55	82.08	80.12	80.52	82.02
1994	79.99	81.36	81.97	79.75	82.77	81.89	80.15	79.64	80.41
1995	81.31	81.08	82.14	80.64	82.78	81.55	80.31	80.85	78.38
1996	80.63	81.53	81.72	80.24	82.28	81.88	79.18	79.70	79.38
1997	81.46	81.31	81.87	79.85	81.56	82.31	80.10	79.50	78.77
1998	82.17	83.28	82.69	81.65	82.36	82.23	80.12	79.29	79.25
1999	80.38	82.09	82.53	80.20	82.06	82.17	80.47	81.57	77.77
2000	80.99	82.15	82.57	80.52	82.26	82.68	79.67	81.30	80.56
2001	81.85	80.90	82.86	80.30	83.24	82.77	82.87	82.49	80.01
2002	81.48	81.99	82.61	80.92	82.62	82.23	80.37	81.09	79.11
2003	81.47	81.42	83.24	81.24	81.72	82.42	81.11	81.29	81.44
2004	82.25	82.42	83.21	80.87	83.32	83.12	81.02	81.29	82.48
2005	82.30	82.47	83.26	80.92	83.37	83.17	81.07	81.34	82.53
2006	82.35	82.51	83.31	80.96	83.42	83.22	81.11	81.39	82.57
2007	82.40	82.56	83.35	81.00	83.47	83.27	81.15	81.43	82.62
2008	82.44	82.60	83.40	81.04	83.51	83.31	81.19	81.47	82.66
2009	82.48	82.64	83.44	81.08	83.55	83.36	81.23	81.51	82.71
2010	82.52	82.68	83.48	81.12	83.59	83.40	81.27	81.54	82.75
2011	82.56	82.72	83.52	81.15	83.63	83.44	81.30	81.58	82.78
2012	82.59	82.75	83.55	81.19	83.67	83.47	81.34	81.61	82.82
2013	82.63	82.79	83.59	81.22	83.70	83.51	81.37	81.64	82.86
2014	82.66	82.82	83.62	81.25	83.73	83.54	81.40	81.68	82.89
2015	82.70	82.85	83.65	81.28	83.77	83.58	81.43	81.70	82.92
2016	82.73	82.88	83.69	81.31	83.80	83.61	81.46	81.73	82.95
2017	82.76	82.91	83.72	81.34	83.83	83.64	81.49	81.76	82.99
2018	82.79	82.94	83.75	81.37	83.86	83.67	81.52	81.79	83.01
2019	82.81	82.97	83.77	81.39	83.89	83.70	81.54	81.81	83.04
2020	82.84	82.99	83.80	81.42	83.91	83.73	81.57	81.84	83.07
2021	82.87	83.02	83.83	81.44	83.94	83.75	81.59	81.86	83.10
2022	82.89	83.04	83.85	81.47	83.97	83.78	81.62	81.89	83.12
2023	82.92	83.07	83.88	81.49	83.99	83.81	81.64	81.91	83.15
2024	82.94	83.09	83.90	81.51	84.01	83.83	81.66	81.93	83.17
2025	82.97	83.11	83.93	81.53	84.04	83.86	81.68	81.95	83.20
2026	82.99	83.14	83.95	81.55	84.06	83.88	81.70	81.98	83.22
2027	83.01	83.16	83.97	81.58	84.08	83.90	81.73	82.00	83.24
2028	83.03	83.18	83.99	81.60	84.11	83.93	81.75	82.02	83.26
2029	83.05	83.20	84.01	81.62	84.13	83.95	81.77	82.04	83.29
2030	83.07	83.22	84.04	81.63	84.15	83.97	81.78	82.06	83.31
2031	83.09	83.24	84.06	81.65	84.17	83.99	81.80	82.07	83.33
2032	83.11	83.26	84.08	81.67	84.19	84.01	81.82	82.09	83.35
2033	83.13	83.28	84.09	81.69	84.21	84.03	81.84	82.11	83.37

[2] Due to adjustments made to the population, and described in section 2, life expectancies for the years 1986 to 2003 do not correspond to life expectancies previously released by Alberta Health and Wellness.

Table 2: Male Life Expectancy at Birth [3]

Actual and Projected Life Expectancy by Health Region: Male

Year	Region 1	Region 2	Region 3	Region 4	Region 5	Region 6	Region 7	Region 8	Region 9
1986	73.83	75.30	75.13	71.62	73.53	74.00	71.06	71.25	74.93
1987	74.68	75.41	75.30	72.06	74.34	74.34	73.42	73.54	75.58
1988	74.33	73.89	75.59	72.13	74.63	74.33	73.07	73.59	74.99
1989	73.93	73.97	75.47	74.06	75.45	74.93	73.85	72.77	75.80
1990	74.42	74.33	75.90	73.72	76.24	74.74	74.61	75.05	74.41
1991	74.99	75.23	76.48	73.41	75.37	75.32	73.69	72.87	74.90
1992	75.27	75.33	76.88	74.41	75.80	75.19	74.04	74.59	76.56
1993	75.31	75.84	76.43	73.96	76.75	75.95	73.61	73.82	73.39
1994	74.45	75.26	77.09	74.17	75.31	75.46	73.69	73.15	76.45
1995	74.10	76.10	76.68	74.70	75.48	76.50	73.25	73.29	75.39
1996	74.87	75.31	76.72	74.95	74.51	76.68	73.95	74.21	74.86
1997	76.24	75.89	77.93	75.02	75.06	76.95	74.13	74.53	74.50
1998	75.56	75.43	77.69	75.62	75.30	76.43	74.55	75.68	73.22
1999	76.66	75.06	78.00	76.05	77.67	76.28	74.73	75.17	75.06
2000	77.36	78.59	77.87	75.93	77.28	77.26	74.93	76.46	75.86
2001	75.00	75.88	78.49	75.50	76.73	77.18	75.17	75.92	75.35
2002	76.51	75.35	78.85	75.47	76.04	77.96	74.52	77.12	74.90
2003	75.85	76.25	78.62	75.79	76.88	77.80	74.80	76.85	79.65
2004	77.38	76.30	78.38	75.86	77.73	78.00	75.72	76.27	77.16
2005	77.51	76.43	78.52	75.98	77.87	78.14	75.85	76.40	77.29
2006	77.64	76.55	78.65	76.10	77.99	78.27	75.97	76.52	77.42
2007	77.76	76.67	78.78	76.21	78.12	78.39	76.08	76.63	77.54
2008	77.88	76.78	78.90	76.32	78.24	78.51	76.19	76.75	77.66
2009	77.99	76.89	79.02	76.43	78.35	78.63	76.30	76.85	77.77
2010	78.10	76.99	79.13	76.53	78.46	78.74	76.40	76.96	77.88
2011	78.21	77.09	79.24	76.63	78.57	78.85	76.49	77.06	77.99
2012	78.31	77.18	79.34	76.72	78.67	78.95	76.59	77.15	78.09
2013	78.40	77.28	79.44	76.81	78.77	79.05	76.67	77.24	78.18
2014	78.49	77.36	79.54	76.90	78.86	79.14	76.76	77.33	78.28
2015	78.58	77.45	79.63	76.98	78.95	79.23	76.84	77.41	78.36
2016	78.66	77.53	79.71	77.05	79.03	79.32	76.92	77.49	78.45
2017	78.74	77.60	79.80	77.13	79.11	79.40	76.99	77.57	78.53
2018	78.82	77.67	79.87	77.20	79.19	79.47	77.06	77.64	78.60
2019	78.89	77.74	79.95	77.26	79.26	79.55	77.12	77.71	78.67
2020	78.95	77.80	80.02	77.33	79.33	79.62	77.19	77.77	78.74
2021	79.02	77.86	80.08	77.39	79.39	79.68	77.25	77.83	78.81
2022	79.08	77.92	80.15	77.44	79.46	79.74	77.30	77.89	78.87
2023	79.13	77.98	80.20	77.50	79.51	79.80	77.35	77.94	78.92
2024	79.19	78.03	80.26	77.54	79.57	79.86	77.40	77.99	78.98
2025	79.24	78.07	80.31	77.59	79.62	79.91	77.45	78.04	79.02
2026	79.28	78.12	80.36	77.63	79.66	79.95	77.49	78.08	79.07
2027	79.32	78.16	80.40	77.67	79.71	80.00	77.53	78.12	79.11
2028	79.36	78.19	80.44	77.71	79.74	80.04	77.57	78.16	79.15
2029	79.40	78.23	80.48	77.74	79.78	80.07	77.60	78.19	79.19
2030	79.43	78.26	80.51	77.77	79.81	80.10	77.63	78.22	79.22
2031	79.46	78.28	80.54	77.80	79.84	80.13	77.65	78.25	79.25
2032	79.48	78.31	80.57	77.82	79.87	80.16	77.68	78.27	79.27
2033	79.50	78.33	80.59	77.84	79.89	80.18	77.70	78.29	79.30

[3] Due to adjustments made to the population, and described in section 2, life expectancies for the years 1986 to 2003 do not correspond to life expectancies previously released by Alberta Health and Wellness.

Table 3: Fertility Rates

Actual and Projected Total Fertility Rates by Health Region, Women aged 15 to 44

Year	REG1	REG2	REG3	REG4	REG5	REG6	REG7	REG8	REG9
1986	2.00	1.80	1.63	2.07	2.02	1.73	2.16	2.02	2.09
1987	2.03	1.69	1.65	2.01	2.00	1.67	2.15	2.05	2.10
1988	1.96	1.81	1.66	2.00	2.07	1.73	2.11	2.01	2.28
1989	2.13	1.91	1.73	2.08	2.14	1.76	2.25	2.12	2.24
1990	2.12	1.94	1.72	2.06	2.12	1.78	2.17	2.00	2.45
1991	2.03	1.88	1.70	2.12	2.02	1.80	2.23	2.10	2.30
1992	2.10	1.92	1.70	2.10	1.91	1.74	2.24	2.09	2.33
1993	2.06	1.85	1.61	2.03	2.00	1.67	2.15	2.00	2.22
1994	2.05	1.78	1.62	1.98	1.94	1.64	2.18	2.09	2.27
1995	2.05	2.00	1.59	1.98	1.78	1.62	2.09	2.10	2.34
1996	1.94	1.83	1.56	1.95	1.79	1.58	2.05	2.03	2.32
1997	2.04	1.85	1.53	1.90	1.82	1.51	1.98	1.93	2.18
1998	1.94	1.90	1.53	1.86	1.84	1.55	2.03	1.94	2.09
1999	1.98	1.85	1.51	1.89	1.86	1.56	2.02	1.97	2.01
2000	1.86	1.82	1.50	1.79	1.78	1.49	1.84	1.84	2.06
2001	1.87	1.80	1.48	1.78	1.80	1.51	1.95	1.92	2.15
2002	1.88	1.76	1.50	1.83	1.92	1.52	1.97	1.91	2.22
2003	1.98	1.81	1.58	1.87	1.80	1.56	1.96	2.02	2.13
2004	1.94	1.80	1.53	1.88	1.84	1.56	2.01	1.94	2.16
2005	1.93	1.80	1.52	1.88	1.83	1.55	2.01	1.94	2.16
2006	1.93	1.79	1.52	1.88	1.83	1.55	2.00	1.94	2.16
2007	1.93	1.79	1.52	1.88	1.83	1.55	2.00	1.93	2.15
2008	1.92	1.79	1.51	1.87	1.82	1.54	2.00	1.93	2.15
2009	1.92	1.78	1.51	1.87	1.82	1.54	1.99	1.93	2.15
2010	1.92	1.78	1.51	1.87	1.82	1.54	1.99	1.92	2.14
2011	1.91	1.78	1.50	1.86	1.81	1.53	1.99	1.92	2.14
2012	1.91	1.77	1.50	1.86	1.81	1.53	1.98	1.92	2.14
2013	1.91	1.77	1.50	1.85	1.81	1.53	1.98	1.91	2.13
2014	1.90	1.77	1.49	1.85	1.81	1.52	1.98	1.91	2.13
2015	1.90	1.76	1.49	1.85	1.80	1.52	1.97	1.91	2.13
2016	1.90	1.76	1.49	1.84	1.80	1.52	1.97	1.90	2.12
2017	1.89	1.76	1.49	1.84	1.80	1.51	1.97	1.90	2.12
2018	1.89	1.75	1.48	1.84	1.79	1.51	1.96	1.90	2.12
2019	1.89	1.75	1.48	1.84	1.79	1.51	1.96	1.89	2.11
2020	1.88	1.75	1.48	1.83	1.79	1.50	1.96	1.89	2.11
2021	1.88	1.74	1.47	1.83	1.78	1.50	1.95	1.89	2.11
2022	1.88	1.74	1.47	1.83	1.78	1.50	1.95	1.89	2.10
2023	1.88	1.74	1.47	1.82	1.78	1.49	1.95	1.88	2.10
2024	1.87	1.73	1.46	1.82	1.78	1.49	1.95	1.88	2.10
2025	1.87	1.73	1.46	1.82	1.77	1.49	1.94	1.88	2.10
2026	1.87	1.73	1.46	1.82	1.77	1.49	1.94	1.87	2.09
2027	1.87	1.73	1.46	1.81	1.77	1.48	1.94	1.87	2.09
2028	1.86	1.72	1.45	1.81	1.77	1.48	1.94	1.87	2.09
2029	1.86	1.72	1.45	1.81	1.76	1.48	1.93	1.87	2.09
2030	1.86	1.72	1.45	1.81	1.76	1.48	1.93	1.86	2.08
2031	1.86	1.72	1.45	1.80	1.76	1.47	1.93	1.86	2.08
2032	1.85	1.71	1.45	1.80	1.76	1.47	1.93	1.86	2.08
2033	1.85	1.71	1.44	1.80	1.75	1.47	1.92	1.86	2.08

Table 4: Internal Migration

Actual and Projected Net Inter-Regional Migration by Health Region

	Net Inter-Regional Migration								
Year	**REG1**	**REG2**	**REG3**	**REG4**	**REG5**	**REG6**	**REG7**	**REG8**	**REG9**
1986-1987	-160	-960	3,191	-676	-1,465	4,054	-1,704	-1,272	-1,009
1987-1988	-607	-808	4,882	-556	-1,355	445	-790	-912	-302
1988-1989	-898	-717	4,414	-165	-1,232	680	-851	-1,094	-139
1989-1990	-308	-646	2,475	358	-1,079	1,521	-1,208	-173	-940
1990-1991	-381	-516	1,417	971	-701	475	-774	-133	-359
1991-1992	-373	-692	1,664	618	197	147	14	-801	-774
1992-1993	-442	-378	2,267	816	-298	-29	-325	-1,134	-477
1993-1994	122	274	2,650	2	176	-2,346	60	-234	-702
1994-1995	80	-126	3,439	541	-442	-3,561	362	624	-916
1995-1996	-171	11	3,671	-231	-517	-1,872	-799	92	-184
1996-1997	-391	-330	4,212	-388	-401	-1,219	-663	-1,001	179
1997-1998	-722	-211	2,863	571	-246	-357	-703	-777	-420
1998-1999	-90	-435	1,984	596	-718	1,636	-1,506	-783	-684
1999-2000	-308	-66	1,853	282	-705	1,802	-1,252	-1,106	-500
2000-2001	-650	-504	2,215	26	-514	2,108	-826	-1,100	-755
2001-2002	-833	-847	1,680	-66	-314	2,389	-759	-706	-547
2002-2003	-279	-730	1,116	98	-480	1,813	-698	-505	-335
2003-2004	-475	-504	1,574	253	-478	1,827	-973	-814	-410
2004-2005	-469	-489	1,712	256	-500	1,696	-992	-820	-394
2005-2006	-464	-478	1,815	256	-517	1,598	-1,003	-823	-383
2006-2007	-460	-470	1,892	256	-531	1,521	-1,009	-823	-375
2007-2008	-456	-465	1,947	256	-542	1,459	-1,010	-821	-368
2008-2009	-452	-461	1,987	255	-550	1,408	-1,008	-817	-363
2009-2010	-448	-458	2,015	254	-556	1,365	-1,002	-811	-358
2010-2011	-445	-456	2,033	253	-561	1,328	-994	-803	-355
2011-2012	-441	-454	2,044	252	-564	1,294	-984	-794	-351
2012-2013	-438	-453	2,049	250	-566	1,264	-973	-785	-348
2013-2014	-435	-453	2,051	249	-568	1,237	-961	-775	-345
2014-2015	-432	-452	2,049	248	-569	1,211	-948	-764	-342
2015-2016	-429	-452	2,045	246	-570	1,186	-934	-753	-340
2016-2017	-426	-452	2,040	244	-570	1,163	-920	-742	-337
2017-2018	-423	-452	2,033	243	-570	1,140	-906	-730	-335
2018-2019	-420	-452	2,025	241	-570	1,119	-891	-719	-332
2019-2020	-417	-452	2,016	239	-570	1,097	-876	-707	-330
2020-2021	-415	-452	2,007	237	-569	1,076	-861	-695	-327
2021-2022	-412	-453	1,997	235	-569	1,056	-846	-683	-325
2022-2023	-409	-453	1,987	233	-568	1,036	-831	-671	-323
2023-2024	-407	-453	1,977	231	-568	1,016	-816	-660	-321
2024-2025	-404	-454	1,967	229	-567	996	-801	-648	-318
2025-2026	-401	-454	1,957	227	-567	976	-785	-636	-316
2026-2027	-399	-455	1,946	225	-566	956	-770	-624	-314
2027-2028	-396	-455	1,936	223	-566	937	-755	-612	-312
2028-2029	-394	-456	1,926	221	-565	918	-740	-600	-310
2029-2030	-391	-456	1,915	219	-565	898	-725	-588	-308
2030-2031	-389	-457	1,905	217	-564	879	-709	-576	-305
2031-2032	-386	-457	1,895	214	-564	860	-694	-564	-303
2032-2033	-384	-458	1,884	212	-563	841	-679	-552	-302

Actual and Projected Inter-Regional Migration by Health Region

	Gains									Losses									Total
Year	REG1	REG2	REG3	REG4	REG5	REG6	REG7	REG8	REG9	REG1	REG2	REG3	REG4	REG5	REG6	REG7	REG8	REG9	AB
1986-1987	3,553	2,024	14,224	8,429	3,344	19,801	6,704	3,814	2,134	3,713	2,983	11,034	9,105	4,809	15,747	8,408	5,086	3,143	64,025
1987-1988	3,823	2,320	16,912	9,262	3,808	19,541	7,985	4,574	2,670	4,429	3,128	12,030	9,818	5,163	19,096	8,774	5,486	2,972	70,893
1988-1989	3,902	2,463	17,317	9,882	4,021	20,304	8,074	4,707	2,884	4,799	3,179	12,903	10,047	5,252	19,624	8,925	5,801	3,023	73,552
1989-1990	4,146	2,546	15,974	10,146	4,068	20,253	7,932	4,944	2,336	4,454	3,192	13,499	9,788	5,147	18,732	9,140	5,117	3,275	72,343
1990-1991	3,951	2,548	14,819	10,020	4,287	18,979	7,807	4,711	2,347	4,332	3,064	13,403	9,049	4,988	18,504	8,580	4,843	2,706	69,467
1991-1992	3,786	2,248	14,513	9,676	4,540	18,347	7,979	4,188	2,116	4,158	2,940	12,849	9,058	4,343	18,200	7,965	4,988	2,890	67,390
1992-1993	3,699	2,438	14,352	9,454	4,105	17,761	7,615	3,636	1,855	4,141	2,816	12,085	8,639	4,403	17,790	7,940	4,770	2,332	64,913
1993-1994	3,810	2,591	13,650	8,520	4,007	15,282	7,411	3,861	1,712	3,689	2,317	11,000	8,518	3,831	17,628	7,351	4,095	2,414	60,841
1994-1995	3,952	2,696	14,764	9,582	4,012	15,332	7,965	4,777	1,789	3,872	2,822	11,325	9,041	4,453	18,892	7,604	4,154	2,705	64,867
1995-1996	3,607	2,555	14,440	8,528	3,640	15,082	6,863	4,192	2,155	3,778	2,544	10,769	8,759	4,156	16,954	7,662	4,100	2,339	61,059
1996-1997	3,506	2,497	15,124	8,497	3,790	15,663	6,961	3,760	2,535	3,897	2,827	10,912	8,884	4,190	16,882	7,624	4,761	2,356	62,331
1997-1998	3,566	2,490	14,996	9,548	4,054	16,387	6,910	3,836	2,269	4,287	2,701	12,133	8,977	4,300	16,744	7,613	4,612	2,689	64,054
1998-1999	3,806	2,540	14,512	9,480	3,734	17,368	6,465	3,862	2,009	3,896	2,975	12,529	8,885	4,452	15,732	7,971	4,645	2,693	63,775
1999-2000	3,476	2,511	13,264	8,793	3,543	16,745	6,129	3,500	2,016	3,784	2,577	11,412	8,512	4,248	14,943	7,381	4,606	2,516	59,975
2000-2001	3,440	2,503	14,180	9,159	3,867	17,800	6,917	3,746	2,310	4,090	3,007	11,965	9,133	4,381	15,692	7,743	4,846	3,064	63,920
2001-2002	3,501	2,609	14,470	9,463	4,068	18,502	6,943	3,892	2,730	4,333	3,456	12,790	9,528	4,382	16,113	7,702	4,597	3,277	66,176
2002-2003	3,605	2,303	13,020	9,055	3,745	17,597	6,578	3,709	2,653	3,884	3,032	11,904	8,957	4,225	15,784	7,276	4,214	2,987	62,262
2003-2004	3,623	2,442	14,178	9,245	3,813	18,497	6,749	3,829	2,371	4,098	2,946	12,604	8,992	4,291	16,670	7,722	4,643	2,782	64,748
2004-2005	3,649	2,456	14,293	9,284	3,831	18,601	6,791	3,861	2,777	4,118	2,945	12,581	9,029	4,331	16,904	7,783	4,681	2,777	65,544
2005-2006	3,673	2,469	14,402	9,321	3,848	18,699	6,832	3,891	2,777	4,138	2,947	12,587	9,065	4,365	17,101	7,836	4,714	2,777	65,911
2006-2007	3,697	2,481	14,506	9,355	3,864	18,791	6,872	3,920	2,779	4,157	2,951	12,614	9,099	4,395	17,270	7,881	4,744	2,779	66,265
2007-2008	3,719	2,493	14,606	9,388	3,879	18,880	6,910	3,949	2,783	4,175	2,958	12,659	9,132	4,421	17,420	7,920	4,770	2,783	66,605
2008-2009	3,740	2,504	14,703	9,419	3,894	18,964	6,947	3,976	2,787	4,192	2,965	12,716	9,164	4,444	17,556	7,954	4,793	2,787	66,934
2009-2010	3,761	2,514	14,797	9,448	3,908	19,046	6,983	4,003	2,792	4,209	2,972	12,782	9,194	4,464	17,681	7,985	4,814	2,792	67,252
2010-2011	3,781	2,524	14,888	9,477	3,921	19,125	7,018	4,030	2,797	4,226	2,980	12,855	9,224	4,482	17,797	8,012	4,833	2,797	67,562
2011-2012	3,801	2,534	14,977	9,504	3,934	19,202	7,053	4,056	2,803	4,242	2,989	12,933	9,253	4,498	17,907	8,037	4,850	2,803	67,863
2012-2013	3,820	2,544	15,064	9,531	3,947	19,276	7,087	4,081	2,808	4,258	2,997	13,014	9,281	4,514	18,012	8,060	4,866	2,808	68,157
2013-2014	3,838	2,553	15,149	9,557	3,959	19,349	7,121	4,106	2,814	4,273	3,005	13,098	9,308	4,527	18,112	8,082	4,881	2,814	68,445
2014-2015	3,856	2,562	15,232	9,582	3,972	19,420	7,154	4,131	2,819	4,288	3,014	13,183	9,335	4,541	18,209	8,102	4,895	2,819	68,727
2015-2016	3,874	2,570	15,314	9,607	3,983	19,489	7,187	4,156	2,825	4,303	3,022	13,268	9,361	4,553	18,303	8,121	4,909	2,825	69,004
2016-2017	3,891	2,579	15,394	9,631	3,995	19,557	7,219	4,180	2,830	4,317	3,031	13,354	9,386	4,565	18,394	8,139	4,922	2,830	69,276
2017-2018	3,908	2,587	15,473	9,654	4,006	19,624	7,251	4,204	2,836	4,331	3,039	13,441	9,411	4,576	18,484	8,157	4,934	2,836	69,544
2018-2019	3,925	2,595	15,551	9,677	4,017	19,690	7,283	4,228	2,841	4,345	3,047	13,527	9,436	4,587	18,571	8,174	4,947	2,841	69,808
2019-2020	3,942	2,603	15,628	9,700	4,028	19,754	7,314	4,251	2,846	4,359	3,055	13,613	9,461	4,598	18,657	8,191	4,959	2,846	70,068
2020-2021	3,958	2,611	15,705	9,722	4,039	19,818	7,346	4,275	2,852	4,373	3,064	13,698	9,485	4,608	18,742	8,207	4,970	2,852	70,326
2021-2022	3,974	2,619	15,780	9,744	4,050	19,882	7,377	4,298	2,857	4,386	3,072	13,783	9,509	4,619	18,826	8,223	4,982	2,857	70,581
2022-2023	3,991	2,627	15,855	9,766	4,060	19,944	7,407	4,321	2,862	4,400	3,080	13,868	9,532	4,629	18,908	8,238	4,993	2,862	70,833
2023-2024	4,006	2,634	15,929	9,787	4,071	20,006	7,438	4,344	2,867	4,413	3,088	13,952	9,556	4,639	18,990	8,254	5,004	2,867	71,083
2024-2025	4,022	2,642	16,003	9,809	4,081	20,067	7,469	4,367	2,872	4,426	3,096	14,036	9,579	4,648	19,071	8,269	5,015	2,872	71,331
2025-2026	4,038	2,649	16,076	9,830	4,091	20,128	7,499	4,390	2,878	4,439	3,103	14,119	9,602	4,658	19,152	8,284	5,026	2,878	71,578
2026-2027	4,053	2,657	16,148	9,850	4,101	20,188	7,529	4,413	2,883	4,452	3,111	14,202	9,625	4,668	19,232	8,299	5,036	2,883	71,823
2027-2028	4,069	2,664	16,220	9,871	4,111	20,248	7,559	4,435	2,888	4,465	3,119	14,284	9,648	4,677	19,311	8,314	5,047	2,888	72,066
2028-2029	4,084	2,671	16,292	9,891	4,121	20,308	7,589	4,458	2,893	4,478	3,127	14,367	9,670	4,687	19,390	8,329	5,058	2,893	72,308
2029-2030	4,099	2,678	16,364	9,912	4,131	20,367	7,619	4,480	2,898	4,491	3,135	14,448	9,693	4,696	19,468	8,344	5,068	2,898	72,549
2030-2031	4,115	2,686	16,435	9,932	4,141	20,426	7,649	4,503	2,903	4,504	3,142	14,530	9,715	4,706	19,547	8,358	5,079	2,903	72,789
2031-2032	4,130	2,693	16,506	9,952	4,151	20,484	7,679	4,525	2,908	4,516	3,150	14,611	9,738	4,715	19,624	8,373	5,089	2,908	73,028
2032-2033	4,145	2,700	16,576	9,972	4,161	20,543	7,708	4,548	2,782	4,529	3,158	14,692	9,760	4,724	19,702	8,387	5,100	2,782	73,134

Table 5: Net External Migration

Actual and Projected Net External Migration for Alberta and Health Regions

Year	REG1	REG2	REG3	REG4	REG5	REG6	REG7	REG8	REG9	Alberta
1993-1994	-452	637	1,301	-236	89	-9,126	266	-233	-510	-8,264
1994-1995	-232	753	3,594	36	110	-8,389	-476	415	-575	-4,767
1995-1996	14	556	7,601	280	-51	-3,867	-638	984	51	4,930
1996-1997	471	988	17,651	1,648	802	3,706	913	1,220	1,572	28,970
1997-1998	654	1,773	23,588	3,454	912	5,223	1,543	1,787	1,445	40,380
1998-1999	1,435	1,766	23,601	3,892	692	12,824	1,557	2,077	1,056	48,900
1999-2000	772	1,275	12,885	1,760	596	4,782	275	462	994	23,801
2000-2001	530	2,191	16,509	2,464	1,138	7,359	889	1,083	1,829	33,992
2001-2002	703	1,797	20,245	2,992	1,193	11,475	1,154	1,583	2,590	43,731
2002-2003	632	715	13,684	1,483	427	7,035	-342	622	1,863	26,119
2003-2004	846	1,379	17,124	2,398	936	8,629	902	1,302	1,675	35,191
2004-2005	950	1,459	17,898	2,630	1,034	8,289	1,143	1,459	1,558	36,419
2005-2006	1,032	1,520	18,498	2,806	1,107	8,209	1,310	1,569	1,495	37,547
2006-2007	1,100	1,568	18,985	2,945	1,165	8,278	1,433	1,651	1,465	38,590
2007-2008	1,158	1,607	19,396	3,061	1,212	8,429	1,526	1,715	1,455	39,561
2008-2009	1,210	1,641	19,756	3,160	1,252	8,623	1,602	1,768	1,455	40,468
2009-2010	1,257	1,672	20,078	3,248	1,288	8,838	1,666	1,812	1,461	41,321
2010-2011	1,300	1,699	20,373	3,328	1,320	9,059	1,721	1,851	1,471	42,124
2011-2012	1,340	1,724	20,646	3,402	1,350	9,281	1,771	1,887	1,483	42,884
2012-2013	1,381	1,751	20,928	3,480	1,382	9,443	1,829	1,927	1,485	43,605
2013-2014	1,416	1,772	21,165	3,543	1,407	9,661	1,870	1,956	1,499	44,291
2014-2015	1,450	1,793	21,392	3,604	1,432	9,869	1,909	1,984	1,513	44,944
2015-2016	1,482	1,813	21,608	3,662	1,455	10,068	1,946	2,011	1,525	45,569
2016-2017	1,512	1,832	21,815	3,717	1,477	10,258	1,981	2,037	1,538	46,167
2017-2018	1,542	1,850	22,014	3,770	1,498	10,441	2,015	2,061	1,550	46,741
2018-2019	1,570	1,867	22,205	3,821	1,519	10,616	2,048	2,085	1,561	47,292
2019-2020	1,597	1,884	22,388	3,870	1,538	10,785	2,080	2,108	1,572	47,822
2020-2021	1,624	1,900	22,565	3,917	1,557	10,947	2,110	2,129	1,583	48,333
2021-2022	1,649	1,916	22,736	3,963	1,576	11,104	2,139	2,150	1,593	48,826
2022-2023	1,673	1,931	22,901	4,007	1,593	11,256	2,167	2,171	1,603	49,303
2023-2024	1,697	1,945	23,061	4,050	1,611	11,403	2,195	2,191	1,612	49,763
2024-2025	1,720	1,959	23,215	4,091	1,627	11,545	2,221	2,210	1,622	50,209
2025-2026	1,742	1,973	23,365	4,131	1,643	11,682	2,247	2,228	1,630	50,642
2026-2027	1,763	1,986	23,510	4,170	1,659	11,816	2,272	2,246	1,639	51,061
2027-2028	1,784	1,999	23,651	4,208	1,674	11,945	2,296	2,264	1,648	51,469
2028-2029	1,805	2,012	23,789	4,244	1,689	12,071	2,320	2,280	1,656	51,865
2029-2030	1,824	2,024	23,922	4,280	1,703	12,194	2,342	2,297	1,664	52,250
2030-2031	1,844	2,036	24,052	4,314	1,717	12,313	2,365	2,313	1,672	52,624
2031-2032	1,862	2,047	24,178	4,348	1,730	12,429	2,386	2,329	1,679	52,989
2032-2033	1,881	2,058	24,301	4,381	1,744	12,542	2,407	2,344	1,686	53,345

Table 6: Population Projections

ALBERTA

	2003*	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2033
Age							**FEMALES**						
<1	19,121	18,786	18,943	19,214	19,531	19,830	20,165	20,505	22,065	23,062	23,538	23,976	24,429
1-4	76,156	76,894	77,138	77,911	78,884	79,381	80,500	81,793	88,655	94,079	97,123	98,854	100,233
5-9	101,986	101,576	101,307	100,803	101,262	102,014	102,622	103,232	110,203	119,207	126,104	130,027	131,517
10-14	112,459	111,799	110,777	110,261	108,829	108,308	108,082	108,025	110,652	118,163	127,606	134,875	137,736
15-19	113,402	114,585	116,182	116,992	118,023	118,978	118,505	117,698	115,658	118,834	126,789	136,604	141,547
20-24	113,906	116,883	119,375	121,729	123,291	123,944	125,436	127,376	130,039	128,893	132,792	141,352	147,669
25-29	111,515	114,578	117,329	120,563	123,693	127,596	130,981	133,924	143,433	147,270	147,087	151,793	156,817
30-34	114,571	115,096	116,058	116,997	119,754	122,091	125,460	128,575	146,344	156,770	161,361	161,822	164,608
35-39	122,291	119,755	118,713	119,986	120,892	122,434	123,198	124,432	137,835	156,268	167,250	172,322	172,129
40-44	138,230	138,988	137,979	135,077	131,459	127,917	125,567	124,742	131,136	145,022	163,816	175,127	180,317
45-49	126,693	130,610	134,361	137,085	139,954	141,692	142,592	141,740	129,106	135,858	149,984	168,937	175,693
50-54	100,281	105,568	111,027	117,304	122,961	128,123	132,106	135,919	143,561	131,328	138,241	152,427	164,172
55-59	79,564	84,415	89,568	94,250	96,507	100,292	105,557	110,996	135,711	143,406	131,533	138,476	145,576
60-64	58,305	61,190	64,007	67,154	73,391	78,551	83,320	88,377	109,435	133,653	141,258	129,805	134,242
65-69	48,422	49,396	50,581	52,213	54,133	56,783	59,616	62,361	85,940	106,332	129,729	137,132	128,628
70-74	43,622	43,925	44,195	44,638	45,161	45,834	46,797	47,948	59,156	81,469	100,804	122,929	129,711
75-79	35,950	36,643	37,458	38,282	38,842	39,348	39,672	39,949	43,478	53,730	74,051	91,716	105,481
80-84	27,581	28,473	28,723	29,222	29,356	29,816	30,417	31,129	33,296	36,362	45,041	62,151	69,622
85-89	15,830	16,067	17,021	17,707	18,683	19,455	20,046	20,253	22,088	23,679	25,987	32,341	40,022
90+	8,701	9,215	9,606	9,943	10,261	10,520	10,810	11,470	13,654	15,409	16,818	18,513	20,556
Total	1,568,585	1,594,442	1,620,350	1,647,330	1,674,867	1,702,907	1,731,448	1,760,443	1,911,444	2,068,796	2,226,912	2,381,178	2,470,705
Age							**MALES**						
<1	20,045	19,975	20,150	20,438	20,755	21,095	21,452	21,814	23,475	24,538	25,045	25,512	25,994
1-4	79,543	80,112	80,871	82,098	83,539	84,343	85,542	86,919	94,248	100,026	103,269	105,112	106,580
5-9	107,773	107,293	106,709	105,876	105,475	106,647	107,356	108,482	116,988	126,591	133,932	138,106	139,690
10-14	118,200	117,722	116,499	116,143	115,227	114,481	114,190	113,788	116,307	125,385	135,455	143,190	146,232
15-19	118,907	120,365	122,262	123,081	124,221	125,068	124,789	123,753	121,814	124,927	134,478	144,944	150,203
20-24	115,626	119,675	123,590	126,826	129,445	130,243	132,034	134,232	137,017	136,092	140,017	150,229	156,977
25-29	112,366	115,956	119,181	122,944	126,813	131,904	136,425	140,769	153,233	157,451	157,704	162,606	169,096
30-34	115,079	116,565	118,537	119,933	122,830	125,943	129,930	133,524	156,616	170,269	175,480	176,582	178,929
35-39	121,260	119,195	118,820	121,356	123,639	125,486	127,265	129,526	145,670	169,594	183,958	189,804	190,526
40-44	137,762	137,855	136,551	133,963	131,167	128,801	127,010	126,873	138,459	155,232	179,590	194,365	200,098
45-49	130,864	134,638	137,726	139,876	141,258	142,328	142,629	141,515	132,676	144,715	161,796	186,319	195,683
50-54	103,787	109,513	115,389	121,655	127,547	132,447	136,308	139,469	143,710	135,413	147,610	164,737	179,275
55-59	81,157	85,948	91,536	96,565	99,024	103,342	109,049	114,884	138,817	143,301	135,470	147,641	156,413
60-64	58,583	61,753	64,608	67,869	74,231	79,184	83,848	89,285	112,153	135,543	140,144	132,827	140,287
65-69	46,889	47,822	49,122	50,609	52,694	55,655	58,654	61,397	84,924	106,815	129,152	133,733	128,002
70-74	40,416	40,923	41,198	41,586	41,852	42,385	43,296	44,548	56,010	77,730	98,043	118,697	123,233
75-79	28,617	29,871	31,133	32,291	33,171	33,894	34,328	34,638	37,874	48,004	66,968	84,804	97,381
80-84	17,653	18,459	18,970	19,567	20,279	21,123	22,052	23,046	25,898	28,658	36,647	51,395	58,462
85-89	8,071	8,241	8,712	9,294	9,863	10,319	10,753	11,081	13,665	15,430	17,266	22,276	27,891
90+	3,155	3,327	3,501	3,622	3,722	3,836	3,963	4,220	5,322	6,664	7,716	8,776	10,038
Total	1,565,752	1,595,207	1,625,064	1,655,592	1,686,753	1,718,524	1,750,874	1,783,762	1,954,877	2,132,381	2,309,742	2,481,653	2,580,992
Age							**TOTAL**						
<1	39,166	38,761	39,093	39,651	40,286	40,925	41,617	42,319	45,540	47,600	48,583	49,488	50,422
1-4	155,698	157,007	158,009	160,009	162,423	163,723	166,042	168,712	182,903	194,106	200,392	203,966	206,813
5-9	209,759	208,869	208,017	206,679	206,737	208,661	209,978	211,715	227,191	245,798	260,037	268,133	271,207
10-14	230,658	229,522	227,277	226,404	224,056	222,789	222,272	221,812	226,959	243,549	263,060	278,065	283,968
15-19	232,309	234,949	238,443	240,073	242,244	244,046	243,293	241,450	237,473	243,761	261,267	281,548	291,751
20-24	229,532	236,558	242,965	248,555	252,736	254,188	257,471	261,608	267,056	264,985	272,810	291,581	304,646
25-29	223,881	230,534	236,510	243,507	250,506	259,500	267,406	274,692	296,666	304,720	304,791	314,400	325,914
30-34	229,650	231,661	234,596	236,930	242,585	248,034	255,391	262,099	302,960	327,039	336,841	338,404	343,537
35-39	243,551	238,950	237,533	241,342	244,531	247,919	250,463	253,958	283,505	325,862	351,209	362,125	362,656
40-44	275,992	276,843	274,529	269,040	262,626	256,718	252,577	251,615	269,596	300,254	343,406	369,491	380,415
45-49	257,557	265,248	272,087	276,962	281,212	284,020	285,221	283,255	261,782	280,574	311,780	355,256	371,376
50-54	204,068	215,081	226,416	238,959	250,508	260,570	268,413	275,388	287,271	266,741	285,850	317,163	343,447
55-59	160,721	170,363	181,104	190,815	195,531	203,635	214,606	225,880	274,528	286,708	267,002	286,117	301,989
60-64	116,887	122,943	128,615	135,023	147,622	157,735	167,168	177,661	221,588	269,196	281,402	262,632	274,529
65-69	95,311	97,218	99,704	102,822	106,827	112,438	118,270	123,758	170,864	213,147	258,882	270,864	256,631
70-74	84,038	84,848	85,393	86,224	87,014	88,219	90,093	92,496	115,166	159,198	198,847	241,626	252,944
75-79	64,567	66,514	68,591	70,573	72,013	73,242	74,000	74,588	81,352	101,735	141,020	176,521	202,862
80-84	45,234	46,933	47,693	48,789	49,634	50,939	52,469	54,175	59,194	65,021	81,688	113,546	128,085
85-89	23,901	24,308	25,733	27,002	28,546	29,773	30,799	31,334	35,753	39,109	43,254	54,616	67,913
90+	11,855	12,542	13,107	13,565	13,983	14,356	14,773	15,690	18,976	22,073	24,534	27,288	30,593
Total	3,134,337	3,189,649	3,245,414	3,302,922	3,361,621	3,421,431	3,482,322	3,544,205	3,866,321	4,201,176	4,536,654	4,862,831	5,051,697

* Actual Figures

HEALTH REGION 1: Chinook Health Region

	2003*	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2033
Age							**FEMALES**						
<1	960	967	965	975	988	999	1,011	1,024	1,068	1,079	1,077	1,088	1,105
1-4	4,057	3,966	3,972	3,930	3,978	4,011	4,047	4,097	4,337	4,454	4,475	4,495	4,542
5-9	5,328	5,371	5,309	5,356	5,271	5,237	5,164	5,181	5,405	5,720	5,875	5,917	5,939
10-14	5,797	5,716	5,641	5,525	5,544	5,491	5,544	5,496	5,407	5,660	5,999	6,174	6,217
15-19	5,910	5,905	5,920	5,898	5,855	5,911	5,842	5,782	5,677	5,618	5,895	6,255	6,391
20-24	5,868	5,956	5,959	5,973	5,920	5,768	5,782	5,818	5,746	5,692	5,675	5,987	6,237
25-29	4,738	4,944	5,132	5,351	5,516	5,742	5,854	5,883	5,826	5,819	5,820	5,850	6,028
30-34	4,611	4,540	4,513	4,524	4,652	4,773	4,998	5,206	6,018	6,012	6,048	6,084	6,131
35-39	5,040	4,831	4,734	4,735	4,694	4,700	4,646	4,635	5,376	6,225	6,251	6,314	6,293
40-44	5,759	5,733	5,656	5,459	5,286	5,131	4,937	4,855	4,798	5,567	6,436	6,484	6,611
45-49	5,614	5,754	5,829	5,907	5,909	5,819	5,809	5,744	4,981	4,949	5,731	6,610	6,548
50-54	4,829	4,975	5,151	5,332	5,497	5,656	5,804	5,886	5,825	5,087	5,068	5,854	6,542
55-59	4,122	4,258	4,436	4,611	4,709	4,841	4,990	5,169	5,908	5,859	5,141	5,130	5,454
60-64	3,147	3,261	3,429	3,561	3,868	4,086	4,224	4,400	5,126	5,854	5,812	5,118	5,142
65-69	2,789	2,823	2,857	2,918	2,976	3,078	3,194	3,359	4,302	5,007	5,714	5,679	5,240
70-74	2,631	2,649	2,586	2,602	2,601	2,639	2,674	2,708	3,190	4,085	4,756	5,428	5,447
75-79	2,340	2,300	2,329	2,330	2,328	2,353	2,385	2,331	2,451	2,896	3,712	4,327	4,752
80-84	1,869	1,952	1,970	1,967	1,947	1,913	1,883	1,912	1,921	2,029	2,409	3,095	3,390
85-89	1,126	1,098	1,128	1,175	1,233	1,290	1,357	1,369	1,336	1,346	1,429	1,712	2,056
90+	659	713	732	737	745	758	761	786	919	958	975	1,024	1,100
Total	77,197	77,714	78,248	78,863	79,514	80,195	80,905	81,640	85,616	89,914	94,299	98,628	101,166
Age							**MALES**						
<1	992	1,027	1,027	1,038	1,050	1,063	1,076	1,089	1,136	1,148	1,147	1,158	1,176
1-4	3,963	4,033	4,043	4,107	4,199	4,262	4,302	4,355	4,613	4,738	4,760	4,782	4,831
5-9	5,682	5,515	5,429	5,326	5,260	5,186	5,304	5,326	5,742	6,079	6,244	6,290	6,313
10-14	6,185	6,136	6,027	6,038	5,899	5,857	5,702	5,628	5,566	6,013	6,376	6,563	6,609
15-19	6,386	6,274	6,304	6,247	6,261	6,314	6,278	6,180	5,825	5,796	6,269	6,654	6,799
20-24	6,019	6,188	6,314	6,315	6,349	6,277	6,187	6,236	6,185	5,887	5,903	6,414	6,682
25-29	5,001	5,191	5,347	5,528	5,717	5,874	6,072	6,222	6,246	6,275	6,044	6,117	6,487
30-34	4,473	4,556	4,626	4,798	4,917	5,075	5,289	5,466	6,420	6,510	6,594	6,411	6,306
35-39	4,821	4,605	4,544	4,497	4,553	4,626	4,728	4,814	5,716	6,718	6,850	6,970	6,955
40-44	5,799	5,738	5,579	5,394	5,158	4,967	4,771	4,726	5,050	5,987	7,015	7,176	7,351
45-49	5,518	5,602	5,750	5,802	5,863	5,884	5,849	5,704	4,904	5,257	6,211	7,251	7,373
50-54	4,797	5,032	5,128	5,299	5,480	5,563	5,663	5,817	5,802	5,037	5,403	6,359	6,989
55-59	3,903	4,037	4,262	4,529	4,582	4,787	5,031	5,131	5,828	5,831	5,097	5,467	5,987
60-64	3,098	3,200	3,325	3,398	3,660	3,819	3,962	4,183	5,038	5,727	5,742	5,044	5,194
65-69	2,658	2,676	2,701	2,753	2,821	2,948	3,054	3,176	4,000	4,820	5,484	5,508	5,031
70-74	2,489	2,469	2,444	2,432	2,395	2,393	2,415	2,444	2,893	3,658	4,419	5,037	5,188
75-79	1,743	1,827	1,943	1,970	2,045	2,075	2,056	2,042	2,065	2,467	3,138	3,803	4,143
80-84	1,273	1,261	1,211	1,229	1,222	1,261	1,328	1,415	1,503	1,539	1,857	2,380	2,693
85-89	602	601	646	682	713	720	710	682	819	873	904	1,104	1,295
90+	264	286	279	274	283	280	296	311	329	390	426	451	497
Total	75,668	76,255	76,932	77,659	78,426	79,233	80,073	80,945	85,681	90,751	95,885	100,937	103,901
Age							**TOTAL**						
<1	1,952	1,994	1,993	2,013	2,037	2,061	2,087	2,113	2,204	2,227	2,224	2,247	2,282
1-4	8,020	7,999	8,015	8,037	8,176	8,273	8,349	8,452	8,950	9,192	9,236	9,277	9,373
5-9	11,010	10,886	10,739	10,682	10,531	10,423	10,468	10,507	11,147	11,799	12,119	12,207	12,252
10-14	11,982	11,852	11,668	11,563	11,442	11,348	11,247	11,124	10,973	11,673	12,375	12,738	12,827
15-19	12,297	12,178	12,224	12,145	12,116	12,225	12,120	11,962	11,502	11,414	12,164	12,909	13,190
20-24	11,887	12,144	12,273	12,288	12,269	12,045	11,969	12,054	11,931	11,578	11,579	12,402	12,919
25-29	9,739	10,136	10,479	10,879	11,233	11,617	11,925	12,105	12,072	12,094	11,864	11,967	12,515
30-34	9,084	9,097	9,139	9,323	9,569	9,849	10,287	10,671	12,439	12,523	12,641	12,495	12,437
35-39	9,861	9,436	9,278	9,233	9,247	9,327	9,373	9,449	11,092	12,942	13,102	13,284	13,248
40-44	11,558	11,471	11,235	10,853	10,444	10,098	9,709	9,581	9,848	11,554	13,451	13,660	13,962
45-49	11,132	11,356	11,579	11,708	11,771	11,703	11,658	11,448	9,885	10,206	11,942	13,861	13,921
50-54	9,626	10,006	10,278	10,631	10,977	11,218	11,467	11,703	11,627	10,124	10,471	12,212	13,531
55-59	8,025	8,296	8,698	9,140	9,290	9,629	10,021	10,299	11,736	11,690	10,238	10,596	11,441
60-64	6,245	6,462	6,754	6,959	7,528	7,905	8,185	8,583	10,164	11,581	11,554	10,162	10,336
65-69	5,448	5,499	5,558	5,671	5,797	6,026	6,248	6,534	8,302	9,828	11,198	11,186	10,271
70-74	5,120	5,118	5,030	5,034	4,995	5,031	5,089	5,152	6,083	7,743	9,175	10,465	10,635
75-79	4,084	4,127	4,272	4,300	4,373	4,427	4,441	4,373	4,517	5,363	6,850	8,130	8,895
80-84	3,142	3,214	3,181	3,196	3,169	3,174	3,211	3,327	3,423	3,568	4,267	5,476	6,084
85-89	1,728	1,700	1,774	1,857	1,945	2,010	2,068	2,051	2,154	2,219	2,334	2,816	3,351
90+	923	1,000	1,011	1,011	1,028	1,038	1,057	1,097	1,248	1,348	1,401	1,475	1,597
Total	152,865	153,969	155,180	156,522	157,941	159,428	160,978	162,585	171,297	180,665	190,184	199,565	205,067

* Actual Figures

HEALTH REGION 2: Palliser Health Region

	2003*	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2033
Age							**FEMALES**						
<1	598	590	602	613	625	636	647	657	694	713	728	750	768
1-4	2,564	2,561	2,504	2,466	2,477	2,508	2,556	2,604	2,807	2,916	2,988	3,065	3,127
5-9	3,187	3,241	3,263	3,328	3,341	3,340	3,337	3,301	3,481	3,739	3,881	3,980	4,042
10-14	3,454	3,380	3,355	3,349	3,372	3,357	3,418	3,449	3,510	3,707	3,979	4,131	4,198
15-19	3,573	3,504	3,570	3,574	3,558	3,598	3,533	3,518	3,636	3,715	3,925	4,207	4,315
20-24	3,626	3,736	3,703	3,707	3,676	3,672	3,618	3,698	3,686	3,834	3,937	4,167	4,362
25-29	3,188	3,360	3,512	3,679	3,822	3,894	4,018	4,002	4,049	4,077	4,256	4,386	4,486
30-34	3,170	3,150	3,256	3,266	3,355	3,489	3,672	3,837	4,366	4,442	4,494	4,694	4,840
35-39	3,398	3,359	3,292	3,371	3,349	3,406	3,400	3,516	4,127	4,678	4,772	4,839	4,916
40-44	4,016	3,987	3,910	3,787	3,697	3,566	3,536	3,478	3,727	4,354	4,916	5,022	5,131
45-49	3,861	3,964	4,040	4,015	4,069	4,116	4,092	4,023	3,613	3,875	4,509	5,076	5,120
50-54	2,924	3,072	3,222	3,519	3,741	3,904	4,011	4,092	4,089	3,693	3,959	4,593	5,022
55-59	2,393	2,492	2,647	2,750	2,865	2,933	3,080	3,231	4,096	4,100	3,715	3,980	4,249
60-64	1,887	2,001	2,094	2,136	2,207	2,365	2,466	2,620	3,196	4,041	4,047	3,675	3,816
65-69	1,672	1,681	1,648	1,700	1,758	1,832	1,945	2,037	2,547	3,104	3,915	3,924	3,636
70-74	1,648	1,606	1,618	1,561	1,578	1,559	1,572	1,544	1,914	2,396	2,921	3,681	3,765
75-79	1,491	1,485	1,482	1,479	1,478	1,456	1,421	1,435	1,375	1,711	2,148	2,623	3,157
80-84	1,139	1,171	1,164	1,214	1,200	1,203	1,201	1,199	1,166	1,122	1,403	1,770	1,956
85-89	689	699	751	751	755	781	801	799	825	805	777	980	1,117
90+	374	398	402	419	442	450	463	490	545	576	579	568	615
Total	48,853	49,437	50,034	50,686	51,363	52,065	52,787	53,528	57,451	61,597	65,850	70,115	72,636
Age							**MALES**						
<1	636	629	640	651	663	676	688	699	738	758	774	798	816
1-4	2,576	2,569	2,584	2,578	2,633	2,664	2,713	2,764	2,981	3,097	3,174	3,255	3,321
5-9	3,480	3,491	3,431	3,432	3,423	3,395	3,389	3,423	3,688	3,963	4,114	4,219	4,284
10-14	3,683	3,658	3,658	3,637	3,571	3,653	3,673	3,620	3,638	3,921	4,209	4,371	4,442
15-19	3,710	3,738	3,759	3,773	3,870	3,839	3,823	3,831	3,820	3,856	4,153	4,453	4,567
20-24	3,931	3,934	4,006	4,057	3,967	3,877	3,914	3,947	4,064	4,086	4,149	4,466	4,673
25-29	3,615	3,746	3,818	3,944	4,085	4,248	4,267	4,356	4,360	4,524	4,585	4,680	4,863
30-34	3,422	3,548	3,661	3,718	3,864	4,009	4,155	4,240	4,827	4,871	5,065	5,153	5,198
35-39	3,557	3,516	3,512	3,597	3,636	3,753	3,890	4,013	4,630	5,243	5,311	5,525	5,609
40-44	4,083	4,041	3,971	3,909	3,832	3,783	3,759	3,764	4,296	4,932	5,558	5,642	5,817
45-49	3,911	4,024	4,159	4,166	4,240	4,206	4,178	4,117	3,941	4,485	5,128	5,760	5,729
50-54	3,088	3,236	3,466	3,713	3,829	3,951	4,073	4,211	4,190	4,030	4,576	5,218	5,701
55-59	2,364	2,523	2,608	2,760	2,887	3,078	3,225	3,454	4,195	4,185	4,037	4,577	4,961
60-64	1,851	1,913	1,996	2,032	2,219	2,308	2,463	2,547	3,371	4,093	4,091	3,955	4,219
65-69	1,570	1,581	1,580	1,622	1,664	1,750	1,809	1,890	2,416	3,197	3,882	3,885	3,759
70-74	1,441	1,459	1,468	1,455	1,429	1,404	1,410	1,413	1,702	2,186	2,902	3,528	3,591
75-79	1,193	1,165	1,158	1,167	1,162	1,180	1,198	1,207	1,175	1,429	1,848	2,465	2,816
80-84	766	788	790	803	817	846	829	825	873	860	1,057	1,377	1,646
85-89	389	389	397	411	430	419	435	437	461	494	492	611	728
90+	141	142	157	159	163	172	173	182	203	217	233	237	265
Total	49,410	50,090	50,818	51,585	52,384	53,211	54,064	54,940	59,569	64,426	69,337	74,176	77,004
Age							**TOTAL**						
<1	1,233	1,219	1,241	1,264	1,288	1,311	1,335	1,356	1,433	1,470	1,503	1,548	1,584
1-4	5,140	5,130	5,088	5,044	5,110	5,171	5,270	5,368	5,788	6,014	6,161	6,320	6,448
5-9	6,667	6,731	6,694	6,760	6,764	6,736	6,727	6,723	7,169	7,702	7,995	8,199	8,326
10-14	7,137	7,038	7,014	6,986	6,943	7,009	7,090	7,069	7,148	7,628	8,188	8,503	8,640
15-19	7,283	7,242	7,329	7,347	7,428	7,438	7,357	7,349	7,456	7,571	8,078	8,660	8,882
20-24	7,556	7,669	7,709	7,763	7,643	7,549	7,532	7,645	7,750	7,920	8,086	8,633	9,035
25-29	6,804	7,106	7,329	7,623	7,907	8,142	8,286	8,358	8,409	8,601	8,841	9,066	9,349
30-34	6,592	6,699	6,916	6,984	7,219	7,498	7,827	8,077	9,193	9,313	9,559	9,847	10,038
35-39	6,955	6,876	6,804	6,968	6,985	7,159	7,290	7,529	8,757	9,921	10,083	10,364	10,524
40-44	8,099	8,028	7,881	7,697	7,529	7,350	7,295	7,242	8,023	9,286	10,475	10,664	10,947
45-49	7,772	7,988	8,199	8,181	8,308	8,322	8,270	8,140	7,554	8,360	9,637	10,836	10,849
50-54	6,012	6,308	6,688	7,232	7,570	7,855	8,083	8,302	8,279	7,723	8,535	9,811	10,723
55-59	4,757	5,015	5,255	5,510	5,752	6,011	6,305	6,685	8,291	8,284	7,752	8,558	9,210
60-64	3,738	3,913	4,091	4,168	4,425	4,673	4,929	5,167	6,567	8,133	8,138	7,630	8,035
65-69	3,243	3,262	3,228	3,322	3,422	3,582	3,754	3,926	4,963	6,301	7,797	7,809	7,395
70-74	3,089	3,065	3,086	3,016	3,007	2,963	2,982	2,957	3,616	4,582	5,822	7,209	7,355
75-79	2,685	2,650	2,639	2,647	2,640	2,636	2,619	2,642	2,551	3,140	3,996	5,089	5,973
80-84	1,905	1,959	1,954	2,018	2,017	2,049	2,029	2,024	2,040	1,982	2,460	3,147	3,602
85-89	1,078	1,089	1,148	1,162	1,185	1,200	1,236	1,237	1,286	1,299	1,269	1,592	1,845
90+	515	540	559	578	606	623	636	671	748	793	812	806	880
Total	98,263	99,527	100,853	102,271	103,747	105,276	106,851	108,468	117,021	126,023	135,187	144,291	149,640

* Actual Figures

HEALTH REGION 3: Calgary Health Region

	2003*	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2033
Age							**FEMALES**						
<1	6,871	6,725	6,726	6,841	6,970	7,095	7,233	7,374	8,075	8,643	8,998	9,274	9,481
1-4	26,686	27,302	27,520	27,885	28,362	28,494	28,893	29,427	32,317	34,986	36,900	38,119	38,855
5-9	35,022	35,186	35,476	35,587	36,026	36,624	37,177	37,476	40,318	44,112	47,507	49,905	50,899
10-14	38,422	38,267	37,922	38,052	37,781	38,018	38,257	38,624	40,887	43,917	47,858	51,374	53,012
15-19	38,034	38,786	39,894	40,569	41,159	41,637	41,557	41,289	42,254	44,706	47,883	51,946	54,220
20-24	40,013	41,355	42,476	43,425	44,353	44,934	45,800	47,029	48,831	50,093	52,778	56,148	58,689
25-29	43,338	44,273	45,142	46,318	47,394	48,797	50,292	51,572	56,660	58,857	60,433	63,377	65,372
30-34	45,678	46,318	46,991	47,368	48,528	49,429	50,484	51,488	58,358	63,763	66,211	67,995	69,848
35-39	46,783	46,355	46,602	47,702	48,646	49,808	50,542	51,316	56,151	63,255	68,844	71,448	72,311
40-44	52,684	53,041	52,580	51,655	50,512	49,456	49,107	49,429	54,386	59,389	66,612	72,303	74,860
45-49	47,869	49,499	51,168	52,323	53,364	54,158	54,564	54,160	51,218	56,280	61,363	68,638	71,849
50-54	36,892	38,979	41,264	43,844	46,252	48,314	49,963	51,653	54,744	51,921	57,010	62,112	66,309
55-59	28,282	30,329	32,383	34,264	35,103	36,699	38,786	41,061	51,378	54,483	51,757	56,816	59,634
60-64	19,762	20,765	21,892	23,185	25,754	27,784	29,779	31,795	40,331	50,443	53,509	50,892	54,250
65-69	16,150	16,565	16,897	17,465	18,082	19,154	20,128	21,226	30,813	39,082	48,855	51,840	49,217
70-74	14,736	14,788	14,823	14,844	15,128	15,251	15,647	15,973	20,102	29,173	37,016	46,264	49,026
75-79	11,779	12,143	12,537	12,912	13,079	13,280	13,342	13,387	14,483	18,265	26,519	33,687	39,384
80-84	8,641	9,006	9,130	9,433	9,592	9,821	10,124	10,463	11,200	12,159	15,366	22,304	25,321
85-89	4,884	4,967	5,309	5,539	5,850	6,146	6,375	6,479	7,462	7,994	8,722	11,074	14,182
90+	2,593	2,803	2,969	3,089	3,199	3,277	3,365	3,618	4,402	5,180	5,715	6,286	7,030
Total	565,117	577,452	589,699	602,303	615,134	628,175	641,417	654,839	724,369	796,700	869,855	941,802	983,749
Age							**MALES**						
<1	7,173	7,149	7,153	7,276	7,407	7,547	7,693	7,844	8,590	9,195	9,572	9,867	10,086
1-4	27,729	28,239	28,789	29,338	29,999	30,269	30,698	31,267	34,349	37,191	39,229	40,526	41,309
5-9	37,129	37,258	37,195	37,348	37,410	38,120	38,694	39,326	42,797	46,840	50,453	53,004	54,061
10-14	40,030	40,200	40,088	40,094	40,195	40,311	40,517	40,527	42,940	46,610	50,808	54,548	56,289
15-19	40,280	40,947	41,884	42,514	42,947	43,392	43,640	43,600	44,323	46,940	50,769	55,097	57,516
20-24	39,890	41,808	43,560	45,140	46,736	47,501	48,289	49,335	51,503	52,563	55,444	59,487	62,201
25-29	42,740	44,135	45,580	46,930	48,328	50,340	52,427	54,337	60,755	63,406	64,849	68,043	70,634
30-34	46,082	46,743	47,581	48,162	49,184	50,469	52,012	53,598	62,914	69,742	72,724	74,444	76,183
35-39	47,599	47,298	47,629	49,100	50,567	51,456	52,225	53,175	59,622	69,228	76,287	79,474	80,614
40-44	52,017	52,294	52,200	51,860	51,347	51,144	50,940	51,357	57,217	63,879	73,626	80,809	83,312
45-49	49,538	51,192	52,342	53,109	53,478	53,983	54,321	54,295	53,727	59,728	66,491	76,289	81,141
50-54	38,401	40,689	43,141	45,521	48,130	50,067	51,736	52,916	55,029	54,608	60,643	67,417	72,838
55-59	28,977	31,037	33,252	35,419	36,314	38,044	40,327	42,764	52,484	54,676	54,362	60,361	63,744
60-64	19,614	20,852	22,048	23,431	26,035	28,153	30,147	32,307	41,636	51,148	53,371	53,153	57,171
65-69	15,136	15,483	15,980	16,508	17,311	18,568	19,738	20,888	30,682	39,625	48,729	50,927	50,354
70-74	12,975	13,164	13,291	13,443	13,557	13,693	14,033	14,513	19,099	28,151	36,471	44,917	46,559
75-79	9,112	9,592	10,057	10,440	10,789	10,959	11,107	11,241	12,416	16,472	24,393	31,728	36,910
80-84	5,436	5,732	5,850	6,113	6,394	6,814	7,180	7,542	8,515	9,514	12,726	18,913	21,824
85-89	2,364	2,435	2,669	2,889	3,103	3,251	3,404	3,489	4,557	5,168	5,836	7,872	10,266
90+	870	974	1,044	1,086	1,128	1,160	1,219	1,344	1,740	2,282	2,678	3,074	3,581
Total	563,092	577,220	591,334	605,721	620,360	635,240	650,348	665,664	744,897	826,968	909,461	989,949	1,036,595
Age							**TOTAL**						
<1	14,044	13,874	13,880	14,117	14,378	14,642	14,927	15,218	16,665	17,838	18,570	19,141	19,567
1-4	54,415	55,541	56,308	57,222	58,361	58,763	59,591	60,694	66,666	72,178	76,129	78,645	80,164
5-9	72,151	72,444	72,671	72,935	73,436	74,745	75,872	76,802	83,115	90,952	97,960	102,909	104,961
10-14	78,452	78,467	78,010	78,146	77,976	78,329	78,774	79,150	83,827	90,527	98,665	105,922	109,301
15-19	78,314	79,733	81,779	83,082	84,106	85,029	85,197	84,889	86,578	91,646	98,652	107,043	111,736
20-24	79,902	83,162	86,036	88,566	91,089	92,435	94,089	96,364	100,334	102,656	108,221	115,636	120,890
25-29	86,079	88,408	90,722	93,248	95,722	99,137	102,719	105,909	117,415	122,263	125,282	131,419	136,006
30-34	91,760	93,061	94,572	95,530	97,713	99,898	102,496	105,086	121,271	133,505	138,935	142,439	146,031
35-39	94,382	93,654	94,230	96,802	99,213	101,264	102,767	104,491	115,773	132,483	145,131	150,922	152,925
40-44	104,701	105,335	104,780	103,515	101,860	100,600	100,047	100,787	111,603	123,268	140,239	153,113	158,172
45-49	97,407	100,691	103,510	105,432	106,842	108,140	108,886	108,455	104,945	116,009	127,853	144,926	152,991
50-54	75,293	79,668	84,405	89,365	94,382	98,380	101,699	104,569	109,773	106,529	117,653	129,529	139,147
55-59	57,260	61,366	65,635	69,683	71,416	74,743	79,113	83,825	103,862	109,159	106,119	117,177	123,378
60-64	39,376	41,617	43,939	46,616	51,789	55,937	59,926	64,103	81,967	101,591	106,881	104,044	111,421
65-69	31,286	32,048	32,877	33,973	35,394	37,721	39,866	42,114	61,494	78,707	97,584	102,767	99,570
70-74	27,711	27,953	28,114	28,287	28,684	28,944	29,680	30,485	39,201	57,323	73,486	91,182	95,585
75-79	20,891	21,735	22,594	23,352	23,868	24,239	24,449	24,628	26,898	34,738	50,912	65,415	76,294
80-84	14,076	14,738	14,980	15,546	15,986	16,635	17,305	18,005	19,715	21,673	28,092	41,218	47,145
85-89	7,248	7,402	7,978	8,428	8,952	9,397	9,779	9,967	12,020	13,163	14,558	18,946	24,448
90+	3,463	3,777	4,012	4,175	4,328	4,437	4,584	4,962	6,142	7,462	8,393	9,360	10,612
Total	1,128,208	1,154,672	1,181,032	1,208,023	1,235,494	1,263,415	1,291,765	1,320,504	1,469,266	1,623,668	1,779,316	1,931,752	2,020,344

* Actual Figures

HEALTH REGION 4: David Thompson Health Region

	2003*	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2033
Age							**FEMALES**						
<1	1,836	1,762	1,803	1,837	1,876	1,911	1,950	1,988	2,143	2,203	2,216	2,265	2,325
1-4	7,137	7,216	7,275	7,422	7,546	7,594	7,750	7,904	8,650	9,103	9,231	9,343	9,513
5-9	9,870	9,818	9,697	9,589	9,595	9,702	9,723	9,843	10,721	11,671	12,225	12,401	12,489
10-14	10,920	10,813	10,700	10,660	10,509	10,427	10,394	10,295	10,503	11,427	12,412	12,996	13,140
15-19	11,483	11,566	11,578	11,453	11,351	11,345	11,256	11,165	10,825	11,080	12,040	13,056	13,483
20-24	10,290	10,566	10,937	11,261	11,475	11,558	11,672	11,718	11,415	11,159	11,482	12,498	13,167
25-29	8,841	9,161	9,470	9,831	10,245	10,763	11,076	11,490	12,412	12,221	12,058	12,458	13,053
30-34	9,165	9,207	9,154	9,269	9,511	9,657	10,009	10,351	12,473	13,477	13,355	13,252	13,448
35-39	10,439	9,984	9,823	9,836	9,826	9,889	9,956	9,929	11,205	13,381	14,433	14,356	14,296
40-44	12,160	12,388	12,301	11,877	11,461	10,980	10,545	10,406	10,579	11,897	14,100	15,178	15,172
45-49	11,161	11,397	11,695	11,995	12,347	12,486	12,726	12,656	10,829	11,037	12,373	14,582	15,393
50-54	8,817	9,310	9,813	10,389	10,828	11,340	11,594	11,900	12,884	11,105	11,330	12,666	14,069
55-59	7,221	7,607	8,003	8,363	8,511	8,908	9,391	9,892	11,958	12,938	11,209	11,439	12,031
60-64	5,764	5,945	6,160	6,342	6,845	7,166	7,540	7,928	9,773	11,784	12,741	11,075	11,217
65-69	4,819	4,960	5,052	5,214	5,365	5,594	5,766	5,976	7,673	9,444	11,367	12,285	11,167
70-74	4,162	4,220	4,279	4,349	4,404	4,492	4,624	4,714	5,582	7,169	8,827	10,621	11,324
75-79	3,553	3,561	3,614	3,678	3,691	3,679	3,716	3,772	4,171	4,953	6,376	7,867	9,033
80-84	2,957	2,943	2,866	2,858	2,846	2,848	2,860	2,905	3,045	3,381	4,030	5,206	5,799
85-89	1,720	1,768	1,851	1,863	1,941	2,006	1,998	1,948	1,988	2,093	2,337	2,799	3,295
90+	904	942	993	1,036	1,072	1,086	1,127	1,190	1,299	1,363	1,438	1,581	1,741
Total	143,219	145,134	147,064	149,121	151,246	153,431	155,674	157,970	170,128	182,887	195,580	207,923	215,156
Age							**MALES**						
<1	1,892	1,869	1,918	1,954	1,994	2,034	2,075	2,116	2,280	2,344	2,359	2,410	2,475
1-4	7,621	7,629	7,649	7,761	7,954	8,065	8,237	8,401	9,198	9,681	9,817	9,937	10,118
5-9	10,314	10,285	10,296	10,191	10,136	10,283	10,289	10,376	11,393	12,406	12,995	13,182	13,276
10-14	11,650	11,532	11,265	11,240	11,083	10,920	10,911	10,939	11,085	12,150	13,202	13,823	13,975
15-19	11,828	11,944	12,104	12,080	12,037	12,098	11,998	11,750	11,494	11,692	12,795	13,878	14,332
20-24	10,721	11,049	11,407	11,708	11,953	11,980	12,125	12,315	12,086	11,926	12,199	13,361	14,074
25-29	9,209	9,577	9,868	10,280	10,770	11,292	11,656	12,054	13,131	13,039	12,992	13,358	14,071
30-34	9,129	9,338	9,556	9,721	9,996	10,240	10,641	10,965	13,281	14,463	14,464	14,494	14,702
35-39	9,971	9,597	9,556	9,744	9,844	10,033	10,277	10,521	12,032	14,418	15,662	15,721	15,635
40-44	12,257	12,227	11,932	11,450	11,024	10,645	10,301	10,285	11,332	12,897	15,315	16,593	16,862
45-49	11,529	11,894	12,218	12,430	12,566	12,639	12,637	12,363	10,808	11,895	13,484	15,909	16,722
50-54	8,907	9,381	9,849	10,583	11,237	11,717	12,095	12,426	12,618	11,127	12,226	13,813	15,373
55-59	7,243	7,643	8,144	8,378	8,563	8,973	9,446	9,912	12,459	12,676	11,246	12,336	13,131
60-64	5,607	5,843	6,014	6,286	6,756	7,114	7,502	7,987	9,718	12,185	12,414	11,059	11,611
65-69	4,831	4,816	4,904	5,022	5,172	5,328	5,538	5,704	7,574	9,222	11,549	11,779	10,771
70-74	4,193	4,276	4,281	4,255	4,269	4,294	4,293	4,380	5,128	6,835	8,351	10,466	10,868
75-79	2,910	3,022	3,151	3,281	3,312	3,433	3,497	3,508	3,630	4,286	5,751	7,064	8,356
80-84	1,917	1,924	1,938	1,954	2,026	2,049	2,142	2,241	2,523	2,642	3,148	4,255	4,721
85-89	971	985	982	1,036	1,052	1,043	1,051	1,061	1,252	1,418	1,500	1,802	2,182
90+	386	395	416	403	405	434	439	445	478	558	636	690	756
Total	143,086	145,226	147,447	149,758	152,150	154,614	157,149	159,748	173,500	187,860	202,104	215,930	224,012
Age							**TOTAL**						
<1	3,728	3,631	3,721	3,791	3,869	3,945	4,026	4,104	4,423	4,547	4,575	4,675	4,801
1-4	14,758	14,845	14,924	15,183	15,501	15,659	15,987	16,304	17,848	18,784	19,048	19,280	19,631
5-9	20,184	20,103	19,993	19,780	19,731	19,985	20,012	20,219	22,114	24,077	25,220	25,583	25,765
10-14	22,569	22,345	21,965	21,900	21,593	21,348	21,305	21,234	21,588	23,577	25,614	26,819	27,116
15-19	23,311	23,510	23,682	23,533	23,388	23,442	23,254	22,915	22,319	22,772	24,836	26,934	27,815
20-24	21,011	21,615	22,343	22,969	23,428	23,538	23,797	24,033	23,501	23,085	23,681	25,859	27,241
25-29	18,049	18,738	19,338	20,111	21,015	22,055	22,732	23,544	25,543	25,260	25,049	25,816	27,124
30-34	18,294	18,546	18,710	18,990	19,506	19,897	20,649	21,316	25,754	27,940	27,819	27,746	28,150
35-39	20,409	19,581	19,379	19,580	19,670	19,922	20,232	20,450	23,237	27,799	30,095	30,077	29,931
40-44	24,417	24,615	24,232	23,327	22,485	21,625	20,846	20,691	21,911	24,794	29,415	31,771	32,034
45-49	22,690	23,291	23,913	24,425	24,913	25,125	25,362	25,019	21,637	22,932	25,858	30,491	32,115
50-54	17,724	18,692	19,662	20,972	22,065	23,057	23,689	24,326	25,502	22,233	23,555	26,479	29,441
55-59	14,464	15,250	16,147	16,741	17,074	17,880	18,837	19,804	24,418	25,613	22,455	23,775	25,162
60-64	11,372	11,788	12,174	12,628	13,601	14,281	15,042	15,915	19,491	23,970	25,154	22,134	22,828
65-69	9,650	9,776	9,956	10,236	10,538	10,922	11,304	11,679	15,246	18,665	22,916	24,063	21,938
70-74	8,355	8,496	8,559	8,604	8,672	8,786	8,917	9,094	10,710	14,004	17,178	21,087	22,192
75-79	6,463	6,583	6,765	6,960	7,003	7,113	7,213	7,280	7,801	9,239	12,127	14,931	17,390
80-84	4,874	4,866	4,804	4,812	4,872	4,897	5,002	5,146	5,568	6,023	7,177	9,461	10,520
85-89	2,692	2,753	2,833	2,899	2,994	3,049	3,049	3,009	3,240	3,511	3,837	4,601	5,477
90+	1,290	1,336	1,409	1,439	1,478	1,520	1,566	1,635	1,777	1,921	2,074	2,271	2,497
Total	286,305	290,361	294,511	298,880	303,395	308,045	312,823	317,718	343,628	370,747	397,683	423,853	439,168

* Actual Figures

HEALTH REGION 5: East Central Health Region

	2003*	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2033
Age							**FEMALES**						
<1	603	574	584	588	595	601	608	616	642	639	613	593	595
1-4	2,479	2,438	2,449	2,442	2,467	2,463	2,493	2,519	2,660	2,719	2,660	2,562	2,536
5-9	3,648	3,626	3,512	3,412	3,365	3,323	3,260	3,288	3,413	3,600	3,674	3,603	3,534
10-14	4,146	4,088	3,996	3,964	3,852	3,786	3,769	3,663	3,460	3,603	3,806	3,893	3,871
15-19	4,266	4,154	4,139	4,105	4,135	4,124	4,072	3,988	3,676	3,492	3,651	3,867	3,947
20-24	3,420	3,567	3,639	3,694	3,723	3,705	3,605	3,602	3,492	3,214	3,059	3,243	3,393
25-29	2,965	2,991	3,064	3,136	3,167	3,307	3,468	3,556	3,575	3,510	3,271	3,149	3,249
30-34	3,163	3,167	3,139	3,156	3,210	3,224	3,259	3,344	3,876	3,929	3,893	3,679	3,568
35-39	3,940	3,749	3,616	3,529	3,429	3,384	3,394	3,375	3,609	4,165	4,239	4,223	4,097
40-44	4,491	4,492	4,456	4,357	4,235	4,072	3,886	3,761	3,544	3,798	4,368	4,456	4,531
45-49	4,076	4,195	4,323	4,396	4,491	4,560	4,565	4,535	3,861	3,661	3,925	4,503	4,650
50-54	3,403	3,562	3,708	3,864	4,003	4,147	4,267	4,398	4,618	3,961	3,771	4,040	4,338
55-59	2,984	3,101	3,189	3,343	3,382	3,461	3,621	3,768	4,454	4,677	4,035	3,853	3,978
60-64	2,504	2,626	2,698	2,730	2,888	2,989	3,106	3,193	3,762	4,437	4,659	4,034	3,847
65-69	2,163	2,155	2,219	2,274	2,384	2,463	2,578	2,648	3,129	3,683	4,338	4,555	4,223
70-74	2,042	2,024	1,994	2,025	1,980	2,037	2,032	2,094	2,502	2,960	3,488	4,112	4,332
75-79	1,745	1,772	1,782	1,786	1,828	1,816	1,811	1,786	1,880	2,254	2,676	3,161	3,522
80-84	1,595	1,560	1,521	1,492	1,437	1,418	1,446	1,457	1,462	1,546	1,864	2,222	2,417
85-89	1,049	1,009	1,076	1,103	1,099	1,100	1,080	1,056	1,020	1,024	1,089	1,322	1,482
90+	535	567	578	595	644	671	681	718	757	761	761	796	872
Total	55,215	55,418	55,683	55,993	56,315	56,650	57,001	57,364	59,392	61,631	63,838	65,866	66,983
Age							**MALES**						
<1	614	609	621	626	632	639	647	655	683	680	652	631	633
1-4	2,613	2,562	2,534	2,578	2,592	2,614	2,646	2,675	2,824	2,888	2,825	2,720	2,694
5-9	3,742	3,695	3,664	3,554	3,483	3,481	3,431	3,420	3,617	3,817	3,895	3,820	3,746
10-14	4,426	4,320	4,141	4,084	3,993	3,885	3,844	3,818	3,596	3,813	4,028	4,121	4,098
15-19	4,298	4,346	4,380	4,356	4,444	4,417	4,320	4,147	3,848	3,646	3,880	4,111	4,195
20-24	3,519	3,594	3,778	3,854	3,845	3,842	3,902	3,947	3,761	3,501	3,332	3,592	3,752
25-29	3,015	3,092	3,131	3,226	3,266	3,412	3,505	3,704	3,940	3,809	3,596	3,468	3,640
30-34	3,099	3,129	3,166	3,195	3,325	3,348	3,438	3,489	4,113	4,393	4,301	4,122	4,028
35-39	3,714	3,591	3,490	3,406	3,383	3,389	3,431	3,478	3,840	4,496	4,804	4,737	4,586
40-44	4,438	4,362	4,189	4,132	4,025	3,897	3,784	3,691	3,713	4,100	4,774	5,099	5,245
45-49	4,280	4,358	4,489	4,503	4,521	4,530	4,463	4,298	3,831	3,873	4,274	4,956	5,124
50-54	3,554	3,741	3,879	4,067	4,220	4,349	4,435	4,569	4,398	3,952	4,006	4,411	4,762
55-59	2,982	3,093	3,283	3,401	3,466	3,601	3,787	3,925	4,612	4,456	4,028	4,088	4,321
60-64	2,503	2,581	2,639	2,744	2,881	2,949	3,060	3,245	3,875	4,548	4,405	3,998	3,953
65-69	2,179	2,192	2,231	2,212	2,262	2,392	2,466	2,522	3,102	3,708	4,352	4,224	4,003
70-74	2,032	2,016	1,969	1,966	1,955	1,955	1,969	2,007	2,283	2,823	3,388	3,986	4,042
75-79	1,549	1,588	1,621	1,668	1,671	1,683	1,672	1,636	1,685	1,936	2,412	2,911	3,258
80-84	1,089	1,121	1,143	1,117	1,124	1,123	1,152	1,181	1,202	1,253	1,457	1,831	2,023
85-89	613	593	580	609	615	634	643	656	690	704	742	874	998
90+	256	283	298	311	311	307	300	301	331	356	366	386	422
Total	54,515	54,867	55,227	55,611	56,018	56,446	56,895	57,364	59,945	62,750	65,517	68,086	69,522
Age							**TOTAL**						
<1	1,217	1,183	1,205	1,214	1,227	1,240	1,255	1,270	1,325	1,319	1,264	1,224	1,228
1-4	5,092	5,001	4,983	5,021	5,059	5,077	5,139	5,194	5,484	5,607	5,485	5,282	5,230
5-9	7,389	7,320	7,176	6,967	6,848	6,804	6,692	6,708	7,030	7,416	7,569	7,424	7,280
10-14	8,572	8,408	8,138	8,049	7,845	7,671	7,613	7,481	7,055	7,415	7,834	8,015	7,970
15-19	8,564	8,500	8,519	8,461	8,578	8,540	8,392	8,135	7,524	7,138	7,531	7,978	8,142
20-24	6,939	7,162	7,417	7,548	7,568	7,547	7,507	7,550	7,253	6,714	6,390	6,835	7,145
25-29	5,979	6,083	6,195	6,362	6,433	6,719	6,973	7,260	7,515	7,319	6,867	6,617	6,889
30-34	6,262	6,296	6,305	6,351	6,535	6,571	6,696	6,834	7,989	8,322	8,194	7,801	7,596
35-39	7,654	7,341	7,106	6,934	6,812	6,773	6,824	6,853	7,450	8,660	9,043	8,960	8,683
40-44	8,929	8,854	8,645	8,489	8,260	7,968	7,670	7,452	7,257	7,898	9,141	9,555	9,776
45-49	8,356	8,553	8,813	8,899	9,013	9,089	9,028	8,833	7,692	7,534	8,200	9,459	9,774
50-54	6,957	7,303	7,587	7,931	8,223	8,496	8,702	8,967	9,016	7,913	7,777	8,451	9,100
55-59	5,966	6,194	6,472	6,744	6,848	7,062	7,408	7,693	9,066	9,133	8,063	7,941	8,299
60-64	5,007	5,207	5,337	5,474	5,770	5,939	6,166	6,438	7,637	8,985	9,064	8,031	7,800
65-69	4,342	4,347	4,450	4,487	4,646	4,855	5,044	5,171	6,232	7,391	8,691	8,779	8,226
70-74	4,074	4,040	3,963	3,991	3,935	3,991	4,001	4,100	4,785	5,784	6,876	8,098	8,374
75-79	3,294	3,360	3,403	3,454	3,499	3,499	3,484	3,422	3,564	4,190	5,088	6,072	6,780
80-84	2,684	2,681	2,663	2,609	2,561	2,541	2,598	2,639	2,664	2,799	3,321	4,054	4,440
85-89	1,663	1,603	1,656	1,712	1,714	1,735	1,723	1,712	1,710	1,727	1,832	2,195	2,480
90+	791	850	876	906	955	977	982	1,019	1,088	1,117	1,127	1,181	1,294
Total	109,730	110,285	110,910	111,603	112,332	113,096	113,896	114,728	119,337	124,381	129,356	133,952	136,505

* Actual Figures

HEALTH REGION 6: Capital Health Region

	2003*	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2033
Age							**FEMALES**						
<1	5,537	5,493	5,553	5,624	5,712	5,794	5,890	5,989	6,451	6,744	6,853	6,906	6,992
1-4	22,393	22,523	22,521	22,799	22,990	23,188	23,510	23,867	25,862	27,465	28,315	28,599	28,809
5-9	30,162	29,850	29,735	29,429	29,653	29,817	29,956	30,071	32,064	34,687	36,717	37,785	38,063
10-14	33,967	33,814	33,618	33,258	32,628	32,180	31,912	31,854	32,381	34,526	37,272	39,403	40,210
15-19	34,615	35,139	35,503	35,869	36,280	36,626	36,518	36,379	34,807	35,487	37,755	40,602	42,049
20-24	36,800	37,486	38,146	38,833	39,244	39,542	40,145	40,604	41,798	40,481	41,364	43,799	45,613
25-29	35,563	36,743	37,706	38,712	39,627	40,712	41,518	42,308	45,203	46,740	45,703	46,817	48,253
30-34	35,471	35,381	35,680	36,021	36,988	37,784	39,049	40,116	45,056	48,218	49,971	49,119	49,780
35-39	38,133	37,275	36,737	36,945	36,993	37,343	37,312	37,684	42,358	47,484	50,801	52,685	51,890
40-44	43,429	43,517	43,203	42,226	41,028	39,836	39,012	38,528	39,645	44,443	49,665	53,066	54,862
45-49	40,447	41,577	42,603	43,383	44,345	44,708	44,829	44,551	40,025	41,236	46,088	51,349	53,364
50-54	32,893	34,620	36,178	37,968	39,465	41,037	42,175	43,211	45,211	40,793	42,047	46,903	50,315
55-59	26,330	27,929	29,663	31,178	31,920	32,970	34,687	36,234	43,204	45,214	40,902	42,170	44,538
60-64	19,083	20,058	20,925	22,109	24,167	26,097	27,674	29,370	35,819	42,654	44,643	40,461	41,260
65-69	16,162	16,361	16,867	17,375	18,009	18,748	19,725	20,569	28,738	34,992	41,612	43,556	40,627
70-74	14,509	14,716	14,861	15,088	15,251	15,570	15,787	16,273	19,799	27,549	33,501	39,793	41,735
75-79	12,058	12,335	12,633	12,947	13,232	13,375	13,584	13,722	15,041	18,288	25,382	30,855	34,822
80-84	9,134	9,528	9,737	9,908	9,972	10,238	10,476	10,734	11,672	12,821	15,598	21,617	23,968
85-89	5,136	5,270	5,574	5,893	6,336	6,604	6,869	7,019	7,775	8,466	9,336	11,398	14,196
90+	2,878	3,028	3,165	3,281	3,359	3,484	3,593	3,808	4,729	5,466	6,079	6,758	7,436
Total	494,702	502,644	510,609	518,845	527,199	535,655	544,222	552,892	597,638	643,754	689,604	733,639	758,782
Age							**MALES**						
<1	5,899	5,839	5,908	5,983	6,069	6,165	6,266	6,372	6,864	7,176	7,292	7,349	7,440
1-4	23,485	23,592	23,792	24,148	24,446	24,642	24,989	25,369	27,502	29,209	30,114	30,416	30,640
5-9	31,998	31,732	31,534	31,137	31,037	31,371	31,470	31,788	34,050	36,849	39,008	40,145	40,439
10-14	35,430	35,235	34,894	34,666	34,453	34,155	33,934	33,780	34,235	36,657	39,585	41,851	42,709
15-19	36,024	36,707	37,209	37,553	37,948	38,188	38,041	37,746	36,842	37,464	40,020	43,057	44,597
20-24	37,132	38,247	39,287	40,201	40,723	40,845	41,621	42,206	43,113	42,503	43,360	46,106	48,051
25-29	35,473	36,582	37,675	38,931	40,117	41,711	42,963	44,124	47,575	48,903	48,635	49,773	51,465
30-34	35,275	35,561	35,966	36,239	37,323	38,374	39,599	40,793	47,683	51,486	53,104	53,081	53,597
35-39	37,356	36,715	36,417	37,141	37,481	37,791	38,153	38,634	43,784	50,914	54,924	56,721	56,763
40-44	43,151	43,041	42,669	41,550	40,633	39,631	39,046	38,807	41,263	46,584	53,834	57,959	59,778
45-49	40,916	42,065	43,018	43,894	44,343	44,823	44,759	44,430	40,794	43,378	48,779	56,070	58,422
50-54	33,265	34,970	36,668	38,443	40,030	41,578	42,743	43,708	45,222	41,746	44,381	49,783	54,327
55-59	26,549	28,067	29,881	31,409	32,094	33,209	34,905	36,584	43,564	45,135	41,807	44,446	47,214
60-64	18,965	20,045	21,042	22,201	24,404	26,014	27,483	29,240	35,800	42,625	44,218	41,066	42,677
65-69	15,110	15,543	15,992	16,538	17,244	18,184	19,212	20,161	27,960	34,250	40,780	42,351	39,955
70-74	13,046	13,163	13,278	13,420	13,582	13,885	14,300	14,726	18,607	25,806	31,664	37,722	39,406
75-79	9,209	9,681	10,072	10,527	10,858	11,123	11,233	11,355	12,706	16,139	22,433	27,602	31,254
80-84	5,497	5,863	6,203	6,452	6,696	6,973	7,287	7,602	8,634	9,761	12,479	17,389	19,418
85-89	2,386	2,463	2,624	2,832	3,083	3,314	3,516	3,725	4,608	5,247	5,989	7,707	9,639
90+	900	926	991	1,054	1,084	1,134	1,184	1,272	1,781	2,282	2,673	3,093	3,546
Total	487,065	496,039	505,121	514,319	523,648	533,110	542,704	552,422	602,585	654,116	705,080	753,688	781,335
Age							**TOTAL**						
<1	11,436	11,332	11,461	11,606	11,781	11,959	12,156	12,361	13,314	13,920	14,145	14,256	14,432
1-4	45,878	46,115	46,313	46,947	47,436	47,829	48,499	49,236	53,364	56,674	58,429	59,015	59,448
5-9	62,160	61,582	61,269	60,566	60,690	61,188	61,426	61,860	66,114	71,536	75,725	77,930	78,503
10-14	69,397	69,049	68,513	67,924	67,081	66,335	65,847	65,635	66,617	71,184	76,857	81,254	82,918
15-19	70,639	71,847	72,712	73,422	74,228	74,814	74,559	74,125	71,649	72,951	77,775	83,660	86,646
20-24	73,933	75,734	77,433	79,034	79,968	80,387	81,766	82,809	84,911	82,984	84,724	89,905	93,664
25-29	71,036	73,325	75,381	77,643	79,744	82,424	84,481	86,433	92,778	95,642	94,339	96,590	99,718
30-34	70,746	70,943	71,646	72,261	74,311	76,159	78,647	80,909	92,738	99,704	103,075	102,200	103,377
35-39	75,489	73,989	73,154	74,086	74,474	75,134	75,465	76,318	86,141	98,399	105,724	109,405	108,652
40-44	86,580	86,559	85,872	83,776	81,661	79,466	78,057	77,336	80,908	91,027	103,500	111,025	114,640
45-49	81,363	83,641	85,621	87,276	88,687	89,531	89,588	88,981	80,819	84,614	94,867	107,419	111,786
50-54	66,158	69,590	72,847	76,411	79,495	82,615	84,918	86,919	90,433	82,539	86,428	96,686	104,641
55-59	52,879	55,996	59,543	62,587	64,014	66,180	69,592	72,818	86,768	90,349	82,709	86,616	91,752
60-64	38,048	40,103	41,967	44,310	48,571	52,111	55,157	58,610	71,620	85,280	88,861	81,527	83,937
65-69	31,272	31,904	32,860	33,914	35,253	36,932	38,937	40,729	56,698	69,242	82,392	85,907	80,582
70-74	27,556	27,878	28,139	28,507	28,832	29,455	30,087	30,998	38,406	53,356	65,165	77,515	81,141
75-79	21,267	22,016	22,706	23,474	24,091	24,498	24,817	25,077	27,747	34,427	47,815	58,457	66,075
80-84	14,631	15,391	15,940	16,359	16,668	17,211	17,763	18,336	20,307	22,583	28,077	39,006	43,386
85-89	7,522	7,733	8,198	8,725	9,420	9,918	10,385	10,744	12,383	13,713	15,326	19,105	23,835
90+	3,779	3,955	4,155	4,335	4,443	4,618	4,777	5,080	6,510	7,748	8,752	9,851	10,982
Total	981,767	998,683	1,015,730	1,033,164	1,050,847	1,068,765	1,086,925	1,105,315	1,200,223	1,297,870	1,394,684	1,487,327	1,540,118

* Actual Figures

HEALTH REGION 7: Aspen Health Region

	2003*	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2033
Age							**FEMALES**						
<1	1,165	1,125	1,142	1,143	1,148	1,152	1,160	1,168	1,206	1,199	1,157	1,126	1,127
1-4	4,822	4,745	4,682	4,659	4,665	4,652	4,684	4,707	4,882	4,971	4,876	4,725	4,686
5-9	6,782	6,592	6,450	6,269	6,161	6,117	6,013	5,979	6,081	6,339	6,464	6,366	6,268
10-14	7,441	7,423	7,237	7,154	6,879	6,793	6,613	6,485	6,063	6,208	6,507	6,669	6,649
15-19	7,204	7,193	7,276	7,234	7,327	7,255	7,247	7,076	6,375	5,998	6,185	6,520	6,669
20-24	5,857	6,021	6,166	6,288	6,347	6,332	6,340	6,445	6,324	5,693	5,378	5,618	5,850
25-29	5,338	5,308	5,307	5,380	5,546	5,660	5,849	6,022	6,399	6,362	5,805	5,555	5,687
30-34	5,818	5,767	5,650	5,578	5,484	5,543	5,529	5,551	6,340	6,784	6,806	6,303	6,136
35-39	6,857	6,568	6,300	6,160	6,089	5,931	5,893	5,794	5,756	6,598	7,089	7,156	6,891
40-44	7,434	7,470	7,526	7,402	7,164	6,858	6,581	6,329	5,876	5,884	6,762	7,287	7,449
45-49	6,273	6,527	6,712	6,965	7,137	7,392	7,442	7,508	6,360	5,946	5,985	6,886	7,217
50-54	5,049	5,240	5,451	5,697	6,002	6,234	6,496	6,686	7,501	6,392	6,006	6,066	6,542
55-59	4,220	4,423	4,638	4,800	4,832	4,997	5,185	5,398	6,628	7,444	6,372	6,010	6,011
60-64	3,339	3,481	3,603	3,713	3,977	4,097	4,306	4,516	5,267	6,472	7,275	6,248	5,985
65-69	2,660	2,722	2,814	2,873	3,003	3,174	3,306	3,425	4,307	5,035	6,193	6,968	6,428
70-74	2,204	2,246	2,264	2,344	2,399	2,396	2,460	2,547	3,124	3,952	4,640	5,725	6,332
75-79	1,737	1,740	1,761	1,774	1,761	1,880	1,917	1,935	2,194	2,715	3,460	4,082	4,693
80-84	1,283	1,310	1,329	1,354	1,353	1,354	1,353	1,373	1,523	1,741	2,174	2,790	3,031
85-89	745	772	804	818	848	857	871	887	922	1,033	1,189	1,498	1,742
90+	465	462	462	471	485	482	493	507	562	600	666	765	878
Total	86,694	87,136	87,573	88,077	88,606	89,159	89,737	90,339	93,689	97,366	100,990	104,364	106,273
Age							**MALES**						
<1	1,171	1,198	1,214	1,216	1,220	1,226	1,234	1,243	1,283	1,275	1,231	1,198	1,199
1-4	5,046	4,892	4,853	4,864	4,893	4,946	4,979	5,003	5,190	5,286	5,184	5,024	4,982
5-9	7,123	6,978	6,816	6,617	6,425	6,354	6,236	6,225	6,456	6,732	6,866	6,762	6,659
10-14	7,960	7,854	7,711	7,598	7,378	7,127	6,993	6,843	6,304	6,583	6,903	7,077	7,057
15-19	7,738	7,791	7,833	7,783	7,806	7,785	7,692	7,561	6,748	6,259	6,580	6,939	7,097
20-24	6,350	6,487	6,601	6,746	6,949	7,003	7,081	7,141	6,958	6,223	5,801	6,176	6,422
25-29	5,283	5,462	5,600	5,765	5,946	6,140	6,308	6,448	7,105	7,024	6,381	6,038	6,305
30-34	5,747	5,583	5,555	5,486	5,427	5,541	5,746	5,905	6,848	7,587	7,583	7,011	6,741
35-39	6,359	6,126	5,956	5,935	5,968	5,903	5,763	5,754	6,183	7,189	7,984	8,035	7,668
40-44	7,311	7,346	7,240	7,019	6,671	6,377	6,170	6,018	5,884	6,367	7,415	8,248	8,421
45-49	6,987	7,105	7,157	7,223	7,290	7,269	7,320	7,227	6,073	5,986	6,504	7,574	8,167
50-54	5,457	5,727	6,052	6,383	6,684	6,922	7,046	7,106	7,212	6,111	6,054	6,589	7,267
55-59	4,537	4,640	4,803	4,976	5,106	5,360	5,627	5,949	7,002	7,133	6,083	6,047	6,166
60-64	3,697	3,832	3,932	3,989	4,144	4,347	4,452	4,612	5,734	6,764	6,910	5,922	5,974
65-69	3,074	3,085	3,098	3,197	3,329	3,411	3,542	3,639	4,296	5,367	6,347	6,501	5,844
70-74	2,507	2,572	2,632	2,681	2,676	2,663	2,678	2,696	3,201	3,812	4,799	5,695	5,852
75-79	1,659	1,708	1,789	1,865	1,916	2,002	2,062	2,118	2,193	2,636	3,170	4,024	4,646
80-84	995	1,029	1,060	1,073	1,138	1,145	1,189	1,252	1,506	1,577	1,917	2,328	2,657
85-89	447	460	482	499	499	534	560	578	697	847	894	1,095	1,251
90+	193	184	176	183	198	199	198	203	246	302	371	407	454
Total	89,645	90,059	90,562	91,098	91,662	92,254	92,875	93,522	97,120	101,063	104,978	108,690	110,829
Age							**TOTAL**						
<1	2,337	2,323	2,356	2,359	2,368	2,378	2,394	2,411	2,488	2,474	2,388	2,324	2,327
1-4	9,868	9,637	9,535	9,523	9,558	9,599	9,663	9,710	10,072	10,257	10,060	9,749	9,668
5-9	13,905	13,570	13,266	12,886	12,586	12,471	12,249	12,204	12,536	13,071	13,330	13,128	12,927
10-14	15,401	15,278	14,949	14,752	14,257	13,920	13,606	13,328	12,367	12,791	13,410	13,745	13,706
15-19	14,942	14,985	15,108	15,017	15,133	15,040	14,939	14,638	13,123	12,258	12,765	13,459	13,766
20-24	12,207	12,508	12,767	13,035	13,296	13,335	13,420	13,586	13,282	11,916	11,178	11,795	12,271
25-29	10,622	10,770	10,907	11,145	11,492	11,801	12,156	12,470	13,504	13,387	12,186	11,593	11,992
30-34	11,564	11,350	11,205	11,064	10,911	11,084	11,275	11,456	13,188	14,371	14,389	13,314	12,877
35-39	13,216	12,694	12,255	12,095	12,056	11,835	11,656	11,548	11,939	13,787	15,074	15,192	14,559
40-44	14,745	14,817	14,766	14,420	13,835	13,235	12,751	12,346	11,761	12,252	14,177	15,536	15,870
45-49	13,260	13,632	13,869	14,188	14,427	14,660	14,762	14,735	12,432	11,933	12,489	14,459	15,385
50-54	10,506	10,967	11,504	12,079	12,685	13,156	13,542	13,792	14,713	12,503	12,061	12,655	13,810
55-59	8,757	9,064	9,441	9,776	9,938	10,357	10,812	11,347	13,630	14,577	12,455	12,056	12,177
60-64	7,036	7,313	7,535	7,702	8,120	8,444	8,757	9,129	11,002	13,236	14,186	12,169	11,960
65-69	5,734	5,807	5,912	6,070	6,332	6,586	6,848	7,065	8,603	10,402	12,540	13,470	12,272
70-74	4,712	4,818	4,896	5,026	5,076	5,059	5,137	5,243	6,325	7,765	9,438	11,420	12,184
75-79	3,397	3,448	3,550	3,639	3,677	3,882	3,979	4,053	4,387	5,350	6,630	8,106	9,339
80-84	2,278	2,339	2,389	2,427	2,491	2,500	2,542	2,625	3,029	3,318	4,091	5,118	5,688
85-89	1,192	1,232	1,286	1,317	1,347	1,391	1,431	1,465	1,619	1,880	2,083	2,593	2,994
90+	658	646	638	655	682	680	690	710	808	901	1,037	1,173	1,332
Total	176,338	177,196	178,135	179,175	180,268	181,413	182,612	183,861	190,809	198,428	205,968	213,055	217,102

* Actual Figures

HEALTH REGION 8: Peace Country Health Region

	2003*	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2033
Age							**FEMALES**						
<1	924	935	929	937	946	954	962	970	999	1,002	998	1,009	1,026
1-4	3,740	3,759	3,744	3,777	3,774	3,801	3,822	3,858	4,021	4,097	4,095	4,114	4,162
5-9	5,014	4,916	4,876	4,801	4,802	4,733	4,773	4,760	4,953	5,179	5,289	5,313	5,337
10-14	5,275	5,247	5,204	5,166	5,093	5,055	4,966	4,936	4,856	5,081	5,337	5,475	5,506
15-19	5,346	5,302	5,240	5,183	5,190	5,249	5,228	5,195	4,964	4,918	5,174	5,458	5,573
20-24	5,040	5,135	5,233	5,347	5,330	5,189	5,160	5,114	5,127	4,947	4,947	5,244	5,447
25-29	4,647	4,737	4,824	4,901	4,982	5,230	5,343	5,461	5,414	5,490	5,365	5,413	5,607
30-34	4,655	4,700	4,699	4,740	4,841	4,892	4,992	5,095	5,787	5,790	5,910	5,825	5,805
35-39	4,946	4,806	4,788	4,766	4,834	4,818	4,870	4,881	5,322	6,053	6,093	6,246	6,229
40-44	5,302	5,372	5,324	5,298	5,098	5,025	4,896	4,887	5,019	5,491	6,249	6,317	6,462
45-49	4,776	4,938	5,093	5,119	5,233	5,332	5,407	5,367	4,963	5,119	5,613	6,388	6,470
50-54	3,663	3,855	4,081	4,370	4,630	4,767	4,932	5,090	5,383	5,002	5,175	5,680	6,175
55-59	2,871	2,968	3,138	3,311	3,437	3,622	3,813	4,038	5,044	5,344	4,983	5,165	5,428
60-64	2,250	2,395	2,469	2,498	2,662	2,799	2,894	3,062	3,947	4,933	5,235	4,893	4,980
65-69	1,627	1,729	1,816	1,934	2,043	2,149	2,293	2,366	2,941	3,796	4,746	5,042	4,815
70-74	1,481	1,437	1,481	1,510	1,479	1,500	1,590	1,672	2,189	2,732	3,536	4,425	4,659
75-79	1,101	1,147	1,145	1,186	1,231	1,289	1,248	1,287	1,465	1,927	2,416	3,136	3,672
80-84	860	885	879	873	885	872	909	906	1,024	1,176	1,552	1,955	2,272
85-89	417	424	466	492	531	576	590	586	609	690	802	1,061	1,220
90+	258	258	258	263	262	258	271	292	354	388	435	509	592
Total	64,193	64,945	65,686	66,473	67,282	68,111	68,958	69,823	74,379	79,158	83,953	88,666	91,438
Age							**MALES**						
<1	1,019	996	988	997	1,005	1,014	1,023	1,032	1,063	1,065	1,061	1,073	1,091
1-4	4,010	4,023	3,994	4,014	4,049	4,039	4,060	4,099	4,273	4,355	4,353	4,373	4,424
5-9	5,184	5,187	5,129	5,058	5,015	5,094	5,093	5,064	5,252	5,494	5,612	5,637	5,663
10-14	5,606	5,522	5,449	5,434	5,334	5,220	5,230	5,179	5,154	5,377	5,652	5,800	5,834
15-19	5,585	5,549	5,636	5,589	5,589	5,593	5,515	5,451	5,222	5,232	5,487	5,791	5,914
20-24	5,077	5,258	5,354	5,422	5,490	5,516	5,496	5,596	5,476	5,302	5,360	5,656	5,872
25-29	4,930	4,959	4,945	5,033	5,154	5,310	5,512	5,627	5,957	5,913	5,805	5,920	6,113
30-34	4,864	4,952	5,116	5,176	5,259	5,253	5,301	5,303	6,055	6,447	6,460	6,403	6,506
35-39	5,015	4,852	4,753	4,815	4,930	5,104	5,201	5,377	5,623	6,421	6,857	6,911	6,838
40-44	5,608	5,644	5,598	5,505	5,292	5,143	4,995	4,908	5,576	5,863	6,692	7,159	7,279
45-49	5,124	5,253	5,378	5,455	5,626	5,655	5,696	5,659	5,017	5,712	6,025	6,872	7,182
50-54	3,950	4,198	4,468	4,752	4,891	5,100	5,236	5,364	5,668	5,063	5,767	6,094	6,566
55-59	3,048	3,174	3,386	3,586	3,754	3,868	4,119	4,386	5,280	5,596	5,023	5,726	5,950
60-64	2,466	2,566	2,577	2,592	2,769	2,922	3,048	3,254	4,229	5,103	5,422	4,885	5,280
65-69	1,918	1,981	2,073	2,151	2,207	2,296	2,388	2,400	3,050	3,978	4,811	5,122	4,787
70-74	1,473	1,536	1,555	1,610	1,627	1,695	1,749	1,834	2,142	2,743	3,597	4,362	4,620
75-79	1,097	1,110	1,153	1,162	1,195	1,202	1,256	1,275	1,524	1,796	2,321	3,061	3,510
80-84	612	668	692	736	760	791	795	828	930	1,127	1,337	1,745	2,016
85-89	261	275	288	290	317	350	379	392	474	539	661	787	923
90+	126	115	116	127	124	123	127	133	176	219	256	313	352
Total	66,975	67,818	68,648	69,505	70,386	71,291	72,217	73,163	78,141	83,346	88,561	93,689	96,720
Age							**TOTAL**						
<1	1,943	1,932	1,917	1,934	1,952	1,968	1,986	2,002	2,062	2,067	2,059	2,081	2,117
1-4	7,749	7,782	7,738	7,791	7,823	7,839	7,883	7,957	8,294	8,452	8,448	8,487	8,586
5-9	10,198	10,103	10,005	9,859	9,817	9,828	9,866	9,825	10,205	10,673	10,901	10,950	11,000
10-14	10,881	10,769	10,653	10,600	10,427	10,275	10,195	10,115	10,009	10,458	10,989	11,274	11,340
15-19	10,931	10,851	10,875	10,772	10,780	10,841	10,743	10,646	10,185	10,150	10,661	11,249	11,487
20-24	10,117	10,393	10,587	10,769	10,820	10,705	10,656	10,710	10,604	10,250	10,307	10,900	11,318
25-29	9,577	9,696	9,770	9,934	10,135	10,541	10,855	11,088	11,371	11,403	11,170	11,333	11,720
30-34	9,519	9,651	9,815	9,916	10,100	10,145	10,293	10,398	11,841	12,237	12,370	12,228	12,311
35-39	9,961	9,658	9,541	9,582	9,763	9,922	10,071	10,258	10,945	12,474	12,951	13,158	13,066
40-44	10,909	11,016	10,922	10,803	10,390	10,168	9,891	9,796	10,595	11,354	12,942	13,476	13,741
45-49	9,900	10,191	10,471	10,574	10,859	10,987	11,103	11,026	9,980	10,831	11,638	13,259	13,653
50-54	7,613	8,053	8,549	9,122	9,521	9,868	10,167	10,455	11,051	10,065	10,942	11,774	12,741
55-59	5,920	6,141	6,524	6,897	7,191	7,491	7,931	8,424	10,323	10,940	10,006	10,891	11,378
60-64	4,716	4,960	5,046	5,090	5,430	5,721	5,942	6,316	8,176	10,037	10,657	9,778	10,261
65-69	3,545	3,710	3,889	4,085	4,251	4,446	4,681	4,766	5,991	7,774	9,557	10,165	9,603
70-74	2,954	2,973	3,036	3,121	3,106	3,195	3,339	3,507	4,331	5,476	7,133	8,786	9,279
75-79	2,199	2,257	2,297	2,348	2,426	2,491	2,505	2,562	2,989	3,723	4,737	6,196	7,182
80-84	1,472	1,553	1,571	1,608	1,644	1,662	1,704	1,734	1,955	2,303	2,890	3,701	4,289
85-89	678	699	754	782	848	926	969	977	1,083	1,230	1,464	1,848	2,144
90+	384	373	374	390	385	381	398	424	529	606	691	822	944
Total	131,168	132,763	134,334	135,978	137,668	139,401	141,175	142,987	152,520	162,504	172,514	182,356	188,157

* Actual Figures

HEALTH REGION 9: Northern Lights Health Region

	2003*	2004	2005	2006	2007	2008	2009	2010	2015	2020	2025	2030	2033
Age							**FEMALES**						
<1	629	615	639	655	672	687	703	719	788	842	898	965	1,010
1-4	2,278	2,384	2,472	2,531	2,626	2,671	2,744	2,810	3,119	3,367	3,584	3,833	4,004
5-9	2,973	2,976	2,988	3,031	3,048	3,120	3,218	3,333	3,768	4,160	4,474	4,757	4,946
10-14	3,038	3,052	3,103	3,133	3,171	3,202	3,208	3,224	3,585	4,034	4,437	4,760	4,932
15-19	2,971	3,035	3,062	3,107	3,168	3,234	3,252	3,307	3,445	3,820	4,279	4,692	4,901
20-24	2,993	3,061	3,118	3,202	3,223	3,243	3,313	3,348	3,620	3,780	4,173	4,648	4,912
25-29	2,897	3,061	3,172	3,255	3,394	3,490	3,564	3,630	3,894	4,194	4,377	4,789	5,082
30-34	2,839	2,865	2,977	3,074	3,185	3,300	3,470	3,587	4,071	4,356	4,672	4,871	5,053
35-39	2,755	2,826	2,823	2,941	3,033	3,154	3,185	3,301	3,930	4,429	4,727	5,055	5,207
40-44	2,956	2,987	3,023	3,017	2,979	2,994	3,068	3,069	3,562	4,200	4,707	5,012	5,239
45-49	2,617	2,760	2,898	2,983	3,059	3,123	3,157	3,196	3,256	3,755	4,396	4,905	5,080
50-54	1,810	1,955	2,158	2,321	2,544	2,724	2,864	3,002	3,307	3,374	3,874	4,512	4,860
55-59	1,139	1,308	1,472	1,629	1,749	1,860	2,004	2,205	3,042	3,347	3,418	3,914	4,255
60-64	568	659	737	879	1,023	1,167	1,332	1,492	2,213	3,035	3,336	3,409	3,744
65-69	379	399	411	459	512	590	680	756	1,489	2,190	2,988	3,282	3,275
70-74	208	238	289	315	342	391	411	423	753	1,451	2,120	2,880	3,091
75-79	145	159	176	190	213	219	247	295	418	722	1,363	1,978	2,446
80-84	103	118	126	124	124	149	165	179	281	386	646	1,190	1,467
85-89	63	59	63	73	90	95	105	111	151	228	304	496	729
90+	33	44	48	52	53	54	56	60	87	119	170	226	291
Total	33,395	34,561	35,754	36,970	38,208	39,468	40,747	42,046	48,782	55,790	62,942	70,174	74,522
Age							**MALES**						
<1	648	658	680	697	714	732	749	765	839	896	956	1,027	1,076
1-4	2,499	2,573	2,632	2,710	2,774	2,842	2,917	2,987	3,318	3,582	3,813	4,079	4,261
5-9	3,122	3,153	3,216	3,212	3,287	3,362	3,448	3,534	3,992	4,411	4,745	5,046	5,248
10-14	3,230	3,265	3,265	3,351	3,320	3,352	3,387	3,454	3,789	4,262	4,692	5,036	5,219
15-19	3,057	3,070	3,151	3,187	3,319	3,442	3,481	3,485	3,692	4,042	4,525	4,965	5,187
20-24	2,987	3,110	3,283	3,381	3,432	3,402	3,420	3,508	3,871	4,101	4,470	4,969	5,250
25-29	3,100	3,211	3,218	3,306	3,431	3,577	3,715	3,897	4,164	4,558	4,816	5,208	5,518
30-34	2,989	3,154	3,310	3,438	3,534	3,633	3,750	3,765	4,475	4,769	5,186	5,464	5,667
35-39	2,867	2,896	2,963	3,121	3,278	3,430	3,599	3,760	4,239	4,968	5,279	5,709	5,860
40-44	3,097	3,162	3,173	3,143	3,183	3,214	3,244	3,315	4,128	4,622	5,360	5,681	6,034
45-49	3,061	3,145	3,215	3,294	3,332	3,339	3,407	3,422	3,582	4,400	4,900	5,640	5,823
50-54	2,369	2,538	2,738	2,895	3,047	3,200	3,282	3,353	3,570	3,739	4,554	5,055	5,452
55-59	1,555	1,734	1,916	2,107	2,259	2,423	2,583	2,780	3,392	3,614	3,787	4,592	4,938
60-64	782	920	1,035	1,196	1,364	1,558	1,732	1,909	2,750	3,349	3,571	3,745	4,207
65-69	412	465	562	605	683	779	908	1,017	1,845	2,647	3,219	3,436	3,499
70-74	259	267	279	323	363	402	449	537	955	1,715	2,454	2,984	3,107
75-79	143	177	189	210	223	238	246	256	479	843	1,502	2,146	2,489
80-84	67	74	84	90	102	121	151	159	211	384	668	1,176	1,465
85-89	37	40	43	47	51	52	55	61	108	139	247	424	610
90+	18	22	23	25	25	27	28	29	38	59	77	125	165
Total	36,297	37,633	38,975	40,337	41,720	43,124	44,549	45,993	53,438	61,100	68,821	76,507	81,074
Age							**TOTAL**						
<1	1,277	1,273	1,319	1,352	1,386	1,419	1,452	1,484	1,627	1,738	1,854	1,992	2,085
1-4	4,777	4,957	5,104	5,241	5,400	5,512	5,661	5,797	6,437	6,949	7,396	7,912	8,265
5-9	6,095	6,129	6,204	6,243	6,335	6,482	6,666	6,866	7,760	8,571	9,219	9,803	10,194
10-14	6,268	6,317	6,368	6,484	6,492	6,554	6,595	6,677	7,374	8,295	9,129	9,796	10,150
15-19	6,028	6,104	6,214	6,293	6,487	6,676	6,733	6,792	7,137	7,862	8,805	9,658	10,088
20-24	5,980	6,170	6,401	6,583	6,654	6,646	6,734	6,856	7,491	7,881	8,643	9,617	10,162
25-29	5,997	6,272	6,389	6,562	6,825	7,067	7,279	7,527	8,058	8,752	9,193	9,997	10,600
30-34	5,828	6,019	6,286	6,512	6,720	6,933	7,220	7,351	8,546	9,125	9,859	10,334	10,719
35-39	5,623	5,722	5,785	6,061	6,311	6,584	6,784	7,061	8,170	9,397	10,006	10,764	11,067
40-44	6,053	6,149	6,195	6,160	6,162	6,208	6,312	6,384	7,690	8,822	10,066	10,693	11,273
45-49	5,678	5,905	6,113	6,277	6,392	6,463	6,564	6,618	6,838	8,155	9,296	10,545	10,903
50-54	4,179	4,493	4,896	5,216	5,590	5,924	6,146	6,355	6,877	7,113	8,428	9,567	10,312
55-59	2,694	3,042	3,388	3,736	4,008	4,283	4,587	4,985	6,434	6,961	7,205	8,506	9,193
60-64	1,350	1,579	1,772	2,075	2,387	2,725	3,064	3,401	4,964	6,384	6,907	7,154	7,951
65-69	791	864	973	1,064	1,195	1,369	1,588	1,773	3,335	4,837	6,207	6,718	6,773
70-74	467	505	569	638	705	793	860	960	1,708	3,166	4,574	5,865	6,198
75-79	288	337	364	400	436	457	493	551	898	1,565	2,864	4,125	4,935
80-84	170	192	210	213	226	270	316	338	493	771	1,314	2,366	2,932
85-89	100	98	106	120	141	146	160	172	258	367	551	920	1,339
90+	51	66	71	77	78	81	84	90	126	178	247	351	456
Total	69,692	72,194	74,729	77,306	79,928	82,592	85,296	88,039	102,220	116,890	131,763	146,681	155,595

* Actual Figures

Table 7: Selected Demographic Measures for Alberta [4]

	MORTALITY				FERTILITY			POPULATION					
Year	Life Expectancy		Number of Deaths		Total Fert.		Mean Age	Median Age of Population			Dependency Ratio		
	Female	Male	Female	Male	Rate	Births	of Fertility	Females	Males	Total	Child	Old Age	Total
1986	79.96	73.84	5,771	7,559	1.80	43,574	27.16	29.25	28.91	29.08	0.351	0.120	0.471
1987	80.74	74.41	5,585	7,494	1.78	41,951	27.36	29.76	29.38	29.57	0.350	0.125	0.475
1988	80.59	74.35	5,926	7,732	1.80	41,913	27.56	30.21	29.75	29.98	0.350	0.128	0.478
1989	80.95	74.81	5,927	7,717	1.87	43,217	27.69	30.63	30.13	30.38	0.352	0.131	0.483
1990	81.28	74.98	6,017	7,825	1.87	42,862	27.78	31.06	30.51	30.78	0.353	0.134	0.487
1991	81.31	75.20	6,269	7,979	1.87	42,566	27.85	31.50	30.91	31.20	0.353	0.137	0.490
1992	81.29	75.56	6,491	7,981	1.85	41,859	28.02	31.96	31.33	31.64	0.352	0.140	0.492
1993	81.07	75.61	6,909	8,219	1.77	40,107	28.11	32.36	31.70	32.04	0.355	0.142	0.497
1994	81.40	75.53	6,954	8,444	1.77	39,657	28.24	32.86	32.13	32.50	0.352	0.144	0.495
1995	81.52	75.77	7,180	8,473	1.75	38,695	28.27	33.37	32.57	32.98	0.347	0.146	0.494
1996	81.34	75.94	7,523	8,670	1.71	37,654	28.53	33.82	32.98	33.41	0.343	0.149	0.491
1997	81.53	76.53	7,679	8,551	1.66	36,785	28.60	34.22	33.31	33.77	0.336	0.149	0.486
1998	82.11	76.42	7,589	8,920	1.67	37,756	28.59	34.47	33.53	34.02	0.329	0.148	0.476
1999	81.84	76.72	8,016	8,945	1.67	38,007	28.64	34.78	33.78	34.30	0.320	0.147	0.467
2000	82.04	77.16	8,114	8,920	1.61	36,879	28.77	35.16	34.10	34.64	0.313	0.148	0.461
2001	82.44	77.08	8,135	9,199	1.62	37,494	28.83	35.46	34.33	34.91	0.305	0.149	0.453
2002	82.03	77.43	8,700	9,302	1.64	38,561	28.86	35.69	34.54	35.12	0.298	0.149	0.446
2003	82.30	77.51	8,806	9,553	1.69	40,096	28.99	35.93	34.80	35.36	0.292	0.149	0.442
2004	82.67	77.59	8,875	9,907	1.67	38,659	29.11	36.16	35.00	35.58	0.285	0.150	0.435
2005	82.73	77.72	9,102	10,136	1.66	39,189	29.17	36.39	35.20	35.79	0.278	0.150	0.428
2006	82.78	77.86	9,330	10,375	1.66	39,774	29.24	36.61	35.41	36.00	0.273	0.150	0.423
2007	82.83	77.99	9,565	10,626	1.66	40,404	29.30	36.83	35.61	36.22	0.267	0.151	0.418
2008	82.87	78.11	9,806	10,887	1.65	41,078	29.36	37.05	35.79	36.41	0.263	0.153	0.416
2009	82.92	78.23	10,052	11,161	1.65	41,777	29.42	37.22	35.95	36.58	0.260	0.155	0.414
2010	82.96	78.34	10,323	11,449	1.65	42,470	29.48	37.39	36.10	36.74	0.257	0.156	0.413
2011	83.00	78.45	10,580	11,747	1.64	43,169	29.55	37.55	36.26	36.89	0.255	0.159	0.413
2012	83.04	78.56	10,848	12,056	1.64	43,831	29.61	37.70	36.43	37.05	0.254	0.164	0.418
2013	83.07	78.66	11,109	12,371	1.63	44,467	29.68	37.86	36.60	37.21	0.253	0.169	0.422
2014	83.11	78.75	11,372	12,696	1.63	45,054	29.75	38.01	36.78	37.38	0.253	0.173	0.426
2015	83.14	78.84	11,644	13,038	1.62	45,588	29.82	38.19	36.95	37.55	0.253	0.178	0.431
2016	83.18	78.93	11,925	13,395	1.62	46,069	29.88	38.35	37.13	37.72	0.253	0.183	0.436
2017	83.21	79.01	12,212	13,764	1.62	46,509	29.95	38.53	37.31	37.90	0.253	0.188	0.442
2018	83.24	79.09	12,513	14,145	1.61	46,882	30.00	38.70	37.51	38.08	0.254	0.195	0.448
2019	83.27	79.17	12,826	14,542	1.61	47,218	30.06	38.88	37.71	38.28	0.254	0.202	0.456
2020	83.30	79.24	13,156	14,958	1.61	47,503	30.11	39.08	37.93	38.48	0.255	0.209	0.464
2021	83.32	79.31	13,498	15,391	1.60	47,739	30.15	39.28	38.16	38.69	0.255	0.217	0.472
2022	83.35	79.37	13,847	15,841	1.60	47,944	30.18	39.49	38.39	38.91	0.256	0.225	0.480
2023	83.38	79.43	14,218	16,316	1.60	48,111	30.21	39.70	38.62	39.13	0.256	0.233	0.489
2024	83.40	79.48	14,607	16,811	1.59	48,255	30.23	39.91	38.84	39.35	0.256	0.240	0.496
2025	83.43	79.54	15,020	17,331	1.59	48,394	30.24	40.11	39.07	39.56	0.256	0.248	0.504
2026	83.45	79.59	15,461	17,883	1.59	48,536	30.23	40.32	39.28	39.78	0.256	0.255	0.511
2027	83.48	79.63	15,929	18,461	1.58	48,693	30.23	40.52	39.49	39.98	0.255	0.262	0.517
2028	83.50	79.67	16,420	19,077	1.58	48,869	30.22	40.71	39.69	40.17	0.254	0.268	0.523
2029	83.52	79.71	16,937	19,713	1.58	49,086	30.21	40.90	39.90	40.37	0.253	0.274	0.527
2030	83.54	79.74	17,487	20,374	1.58	49,342	30.19	41.09	40.12	40.58	0.252	0.278	0.530
2031	83.56	79.77	18,069	21,053	1.57	49,630	30.17	41.29	40.31	40.78	0.250	0.281	0.531
2032	83.58	79.80	18,667	21,757	1.57	49,956	30.15	41.47	40.50	40.96	0.248	0.283	0.531
2033	83.60	79.83	19,302	22,489	1.57	50,327	30.13	41.64	40.67	41.13	0.246	0.285	0.531

[4] Due to adjustments made to the population, and described in section 2, life expectancies for the years 1986 to 2003 do not correspond to life expectancies previously released by Alberta Health and Wellness.