

November 2, 2011

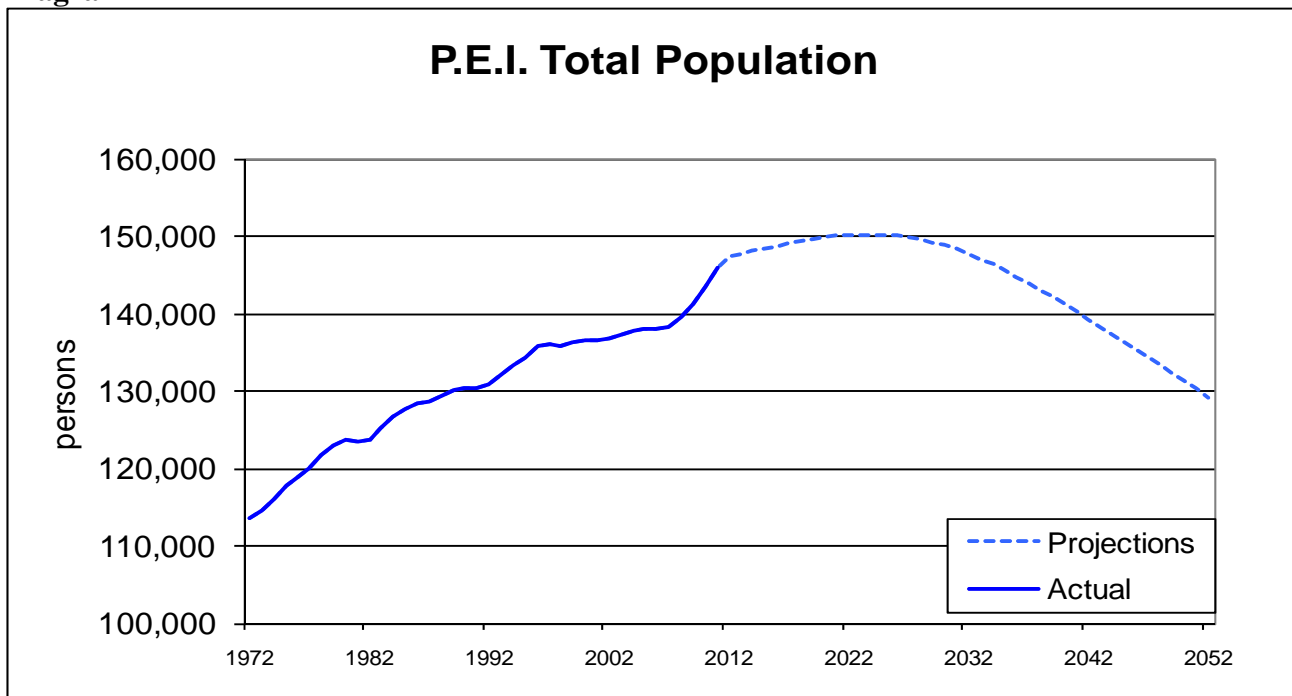
## Prince Edward Island Population Projections 2012 – 2052

### Population Projection Highlights

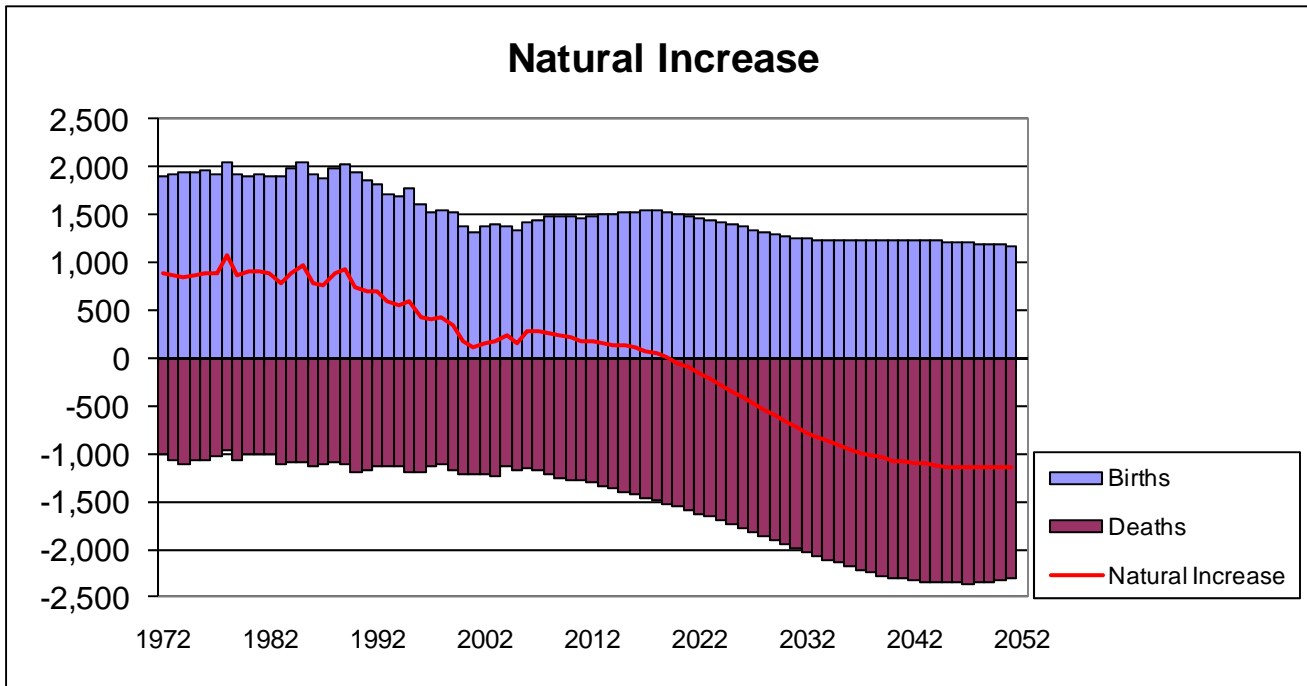
Under the scenario considered:

- PEI's population is projected to peak at 150,170 in 2025 and then begin to decline, reaching 129,259 by 2052 (see Diagram 1).
- The total working age population of persons aged 15 to 64 is projected to peak at 99,840 in 2012 before beginning to decline. This number is projected to drop to 73,962 by 2052 (see Diagram 8).
- Natural Increase (Births minus Deaths) is projected to become negative by 2020 (see Diagram 2).
- The fertility rate is assumed to remain relatively steady between 1.63 and 1.68 from 2012 to 2052 (See Diagram 3).
- The female population will continue to outpace the males, reaching 8,303 more females than males by 2052 (see Diagram 4).
- With natural increase turning negative, the component with the greatest impact on population growth will be international migration. Diagram 5 shows the trend in past and projected levels of international migration.
- Interprovincial migration trends are shown in Diagram 6.

**Diagram 1**



**Diagram 2**



**Diagram 3**

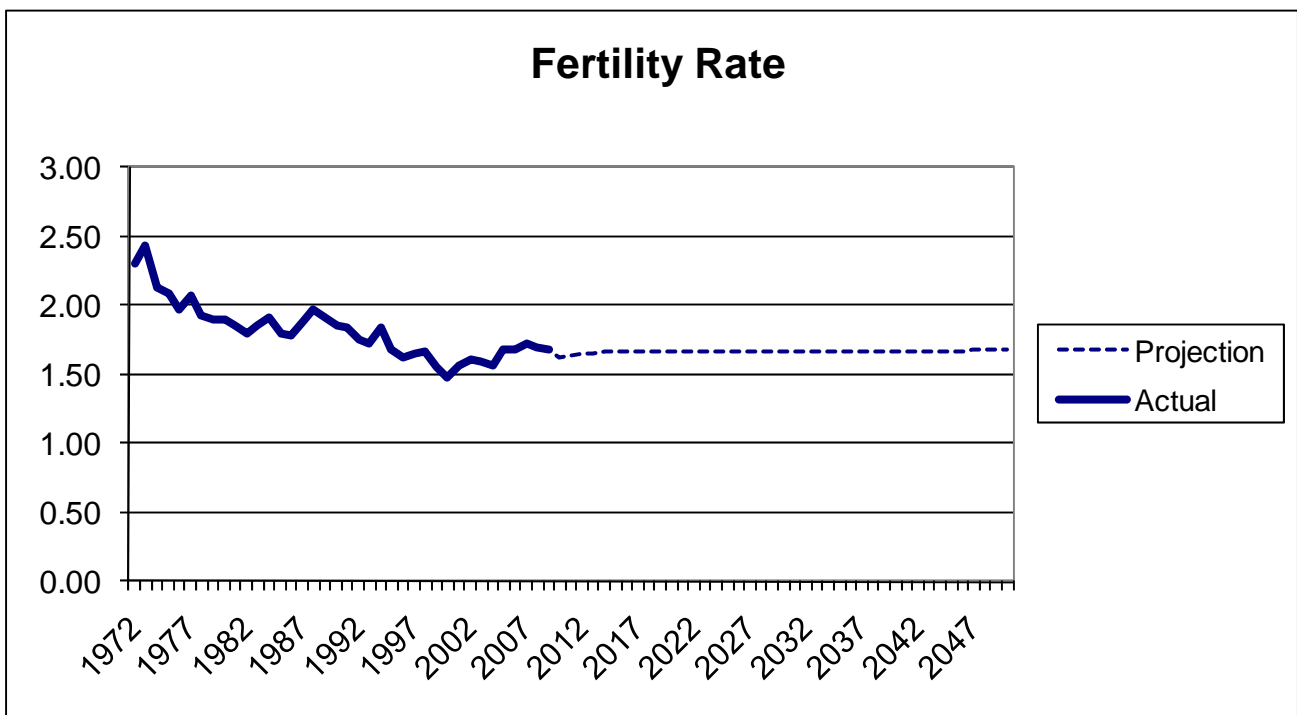


Diagram 4

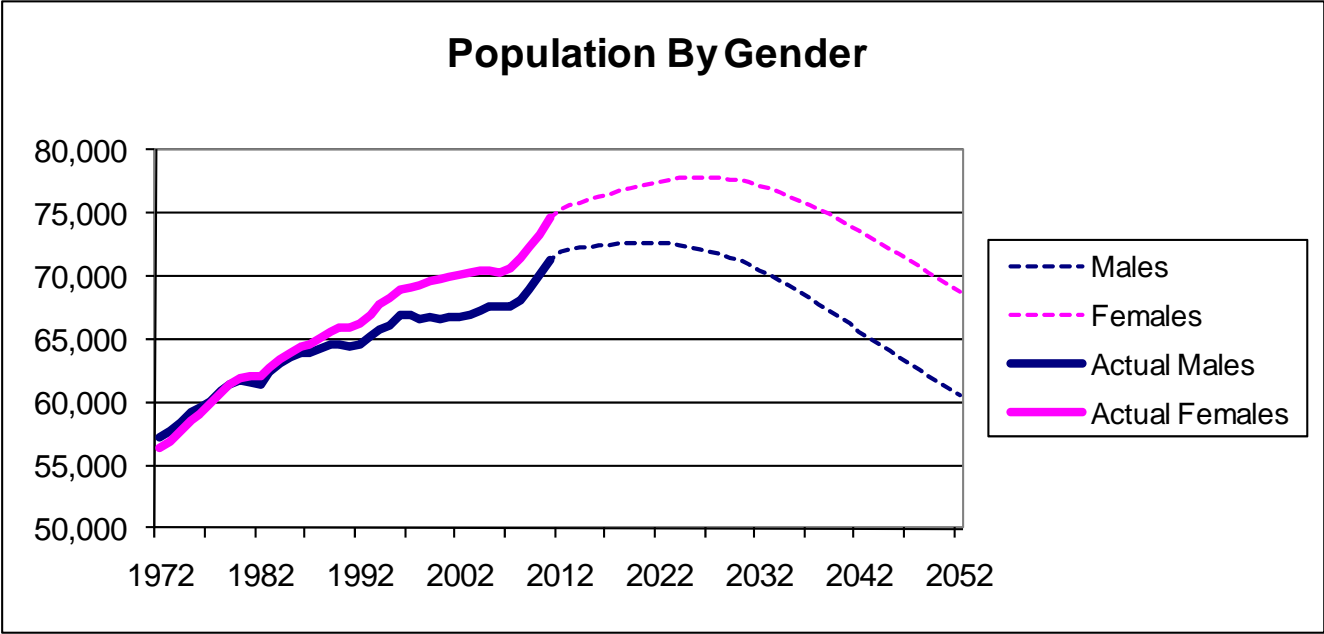
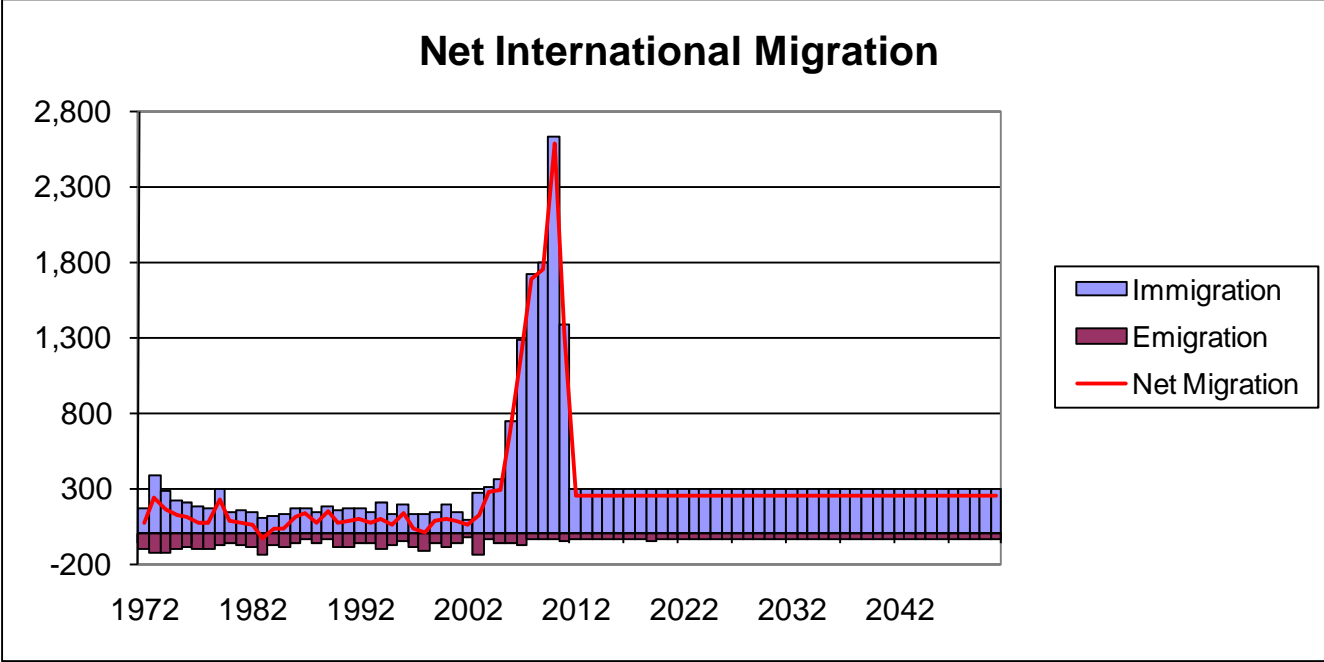
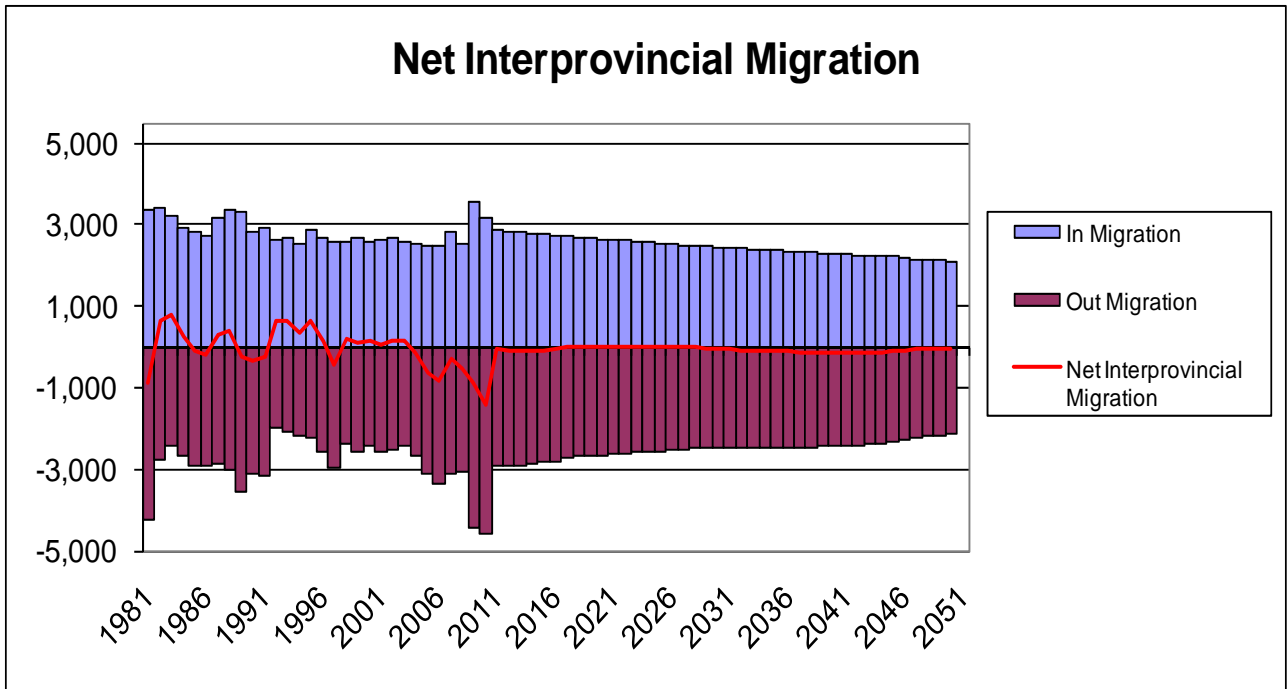


Diagram 5



**Diagram 6**



## **Components of Population Growth, 1972-2011**

In order to formulate population projections, we must first look at trends of the past. Annual population growth on PEI has averaged 0.6 per cent from 1972 to 2011. From 1972 to 1991, the growth rate averaged 0.7 per cent. From 1992 to 2001, the rate of population growth slowed, to an average of just 0.5 per cent per year. In more recent years, from 2002 to 2011, this rate of growth began to increase to once again reach an average of 0.7 per cent. Recent strong international immigration numbers pushed overall growth to an average rate of 1.4 per cent from 2008 to 2011. 2011 saw a growth rate of 1.7 per cent. Natural increase (births minus deaths) has been steadily declining. An aging population and declining birth rates have resulted in an increase in the number of deaths and a lower number of annual births. Over the period 1971 to 2011, natural increase was at its highest in 1978-79 at 1,087. The lowest was seen in 2001-02 at only 108. Natural increase was 214 in 2010-11, down slightly from 241 in 2009-10. Inter-provincial migration has tended to go in cycles, with periods of net loss followed by periods of net gain. Despite these periods of out-migration, on average over the period being examined (1972 to 2011), PEI has shown a net gain in inter-provincial migration. However, since 2003 PEI has had a net loss of 2,937 people due to inter-provincial migration.

Table 1 below shows PEI's annual population estimates and components of growth from 1972 to 2011.

## **Population Projections 2012-2052**

The following population projections were compiled assuming that the trends seen through the 1972 to 2011 period will continue. As a result of the baby boom and the general decline in the fertility rate, the median age will continue to rise, the proportion of senior citizens will increase, births will continue to decline, and the number of deaths will increase. The fertility rate declined during the period of 1972 to 2002, from a peak of 2.43 to a low of 1.47 in 2001-02. The years following 2002 showed a slight increase, climbing back to 1.72 by 2008-09. The projections are based on the fertility rate remaining close to this level, rising slightly from 1.63 to 1.68 from 2012 to 2052. However, the projected fertility rate remains less than the replacement rate of 2.1 births per woman for a stable population. The combination of births and increased international immigration to PEI result in the provincial population increasing until 2025 before beginning to decline.

It is assumed that international immigration will drop dramatically from recent numbers, but will still maintain levels slightly higher than the immigration numbers seen prior to 2004. It is also assumed that inter-provincial migration will continue with the recent trend of net loss, with brief periods of net gain. P.E.I. is projected to show a net loss over the period 2012 to 2052.

Population change is related to many socioeconomic factors, many of which cannot be predicted with certainty. The assumptions used here were based on past trends and current knowledge of immigration, fertility and mortality rates. Table 2 shows PEI's annual population projections and components of growth from 2012 to 2052. Tables 3 and 4 show the annual population estimates and projections by age group.

**Table 1 – Components of Growth, 1972 – 2011**

|      |                      | July 1 - June 30 |        |       |            |                   |                 |              |          |
|------|----------------------|------------------|--------|-------|------------|-------------------|-----------------|--------------|----------|
| Year | Population<br>July 1 | Natural Increase |        |       | Immigrants | Net<br>Emigrants* | Interprovincial |              | Residual |
|      |                      | Births           | Deaths | Net   |            |                   | In-Migrants     | Out-Migrants |          |
| 1972 | 113,460              | 1,897            | 1,013  | 884   | 171        | 37                | 4,327           | 3,545        | -640     |
| 1973 | 114,620              | 1,932            | 1,073  | 859   | 377        | 75                | 4,947           | 4,126        | -640     |
| 1974 | 115,962              | 1,944            | 1,100  | 844   | 284        | 59                | 5,337           | 4,003        | -641     |
| 1975 | 117,724              | 1,939            | 1,062  | 877   | 222        | 47                | 4,268           | 3,812        | -584     |
| 1976 | 118,648              | 1,958            | 1,077  | 881   | 200        | 38                | 3,837           | 3,683        | 57       |
| 1977 | 119,902              | 1,915            | 1,019  | 896   | 174        | 46                | 3,933           | 3,233        | 58       |
| 1978 | 121,684              | 2,053            | 966    | 1,087 | 168        | 37                | 3,584           | 3,658        | 57       |
| 1979 | 122,885              | 1,935            | 1,065  | 870   | 300        | 20                | 3,185           | 3,543        | 58       |
| 1980 | 123,735              | 1,903            | 1,002  | 901   | 146        | 23                | 3,116           | 4,367        | 43       |
| 1981 | 123,551              | 1,924            | 1,007  | 917   | 148        | 35                | 3,375           | 4,231        | -137     |
| 1982 | 123,588              | 1,910            | 1,011  | 899   | 139        | 24                | 3,403           | 2,767        | -136     |
| 1983 | 125,102              | 1,895            | 1,106  | 789   | 103        | 92                | 3,219           | 2,422        | -136     |
| 1984 | 126,563              | 1,977            | 1,090  | 887   | 116        | 61                | 2,904           | 2,654        | -136     |
| 1985 | 127,619              | 2,055            | 1,091  | 964   | 129        | 30                | 2,830           | 2,906        | -170     |
| 1986 | 128,436              | 1,916            | 1,129  | 787   | 165        | -25               | 2,720           | 2,925        | -567     |
| 1987 | 128,641              | 1,883            | 1,112  | 771   | 165        | 14                | 3,163           | 2,868        | -569     |
| 1988 | 129,289              | 1,984            | 1,085  | 899   | 139        | -12               | 3,390           | 3,009        | -567     |
| 1989 | 130,153              | 2,028            | 1,103  | 925   | 181        | 34                | 3,322           | 3,575        | -568     |
| 1990 | 130,404              | 1,940            | 1,199  | 741   | 149        | 68                | 2,809           | 3,134        | -532     |
| 1991 | 130,369              | 1,866            | 1,167  | 699   | 165        | 73                | 2,937           | 3,174        | -96      |
| 1992 | 130,827              | 1,820            | 1,122  | 698   | 161        | 67                | 2,649           | 1,995        | -96      |
| 1993 | 132,177              | 1,725            | 1,120  | 605   | 139        | 10                | 2,688           | 2,066        | -96      |
| 1994 | 133,437              | 1,686            | 1,139  | 547   | 200        | 22                | 2,514           | 2,165        | -96      |
| 1995 | 134,415              | 1,788            | 1,198  | 590   | 127        | -89               | 2,882           | 2,244        | -122     |
| 1996 | 135,737              | 1,616            | 1,192  | 424   | 185        | 91                | 2,694           | 2,558        | -296     |
| 1997 | 136,095              | 1,530            | 1,132  | 398   | 123        | 99                | 2,570           | 2,986        | -297     |
| 1998 | 135,804              | 1,539            | 1,108  | 431   | 125        | -24               | 2,579           | 2,386        | -296     |
| 1999 | 136,281              | 1,529            | 1,182  | 347   | 142        | 107               | 2,662           | 2,558        | -297     |
| 2000 | 136,470              | 1,381            | 1,209  | 172   | 189        | 73                | 2,567           | 2,402        | -260     |
| 2001 | 136,663              | 1,313            | 1,205  | 108   | 145        | 87                | 2,639           | 2,577        | -15      |
| 2002 | 136,876              | 1,374            | 1,217  | 157   | 89         | 52                | 2,686           | 2,521        | -14      |
| 2003 | 137,221              | 1,403            | 1,225  | 178   | 268        | 122               | 2,570           | 2,426        | -15      |
| 2004 | 137,674              | 1,371            | 1,126  | 245   | 312        | 22                | 2,537           | 2,676        | -15      |
| 2005 | 138,055              | 1,329            | 1,165  | 164   | 352        | -1                | 2,460           | 3,099        | -13      |
| 2006 | 137,920              | 1,428            | 1,143  | 285   | 738        | -67               | 2,485           | 3,334        | 0        |
| 2007 | 138,161              | 1,447            | 1,166  | 281   | 1,282      | -171              | 2,821           | 3,112        | 0        |
| 2008 | 139,604              | 1,486            | 1,216  | 270   | 1,723      | -158              | 2,522           | 3,058        | 0        |
| 2009 | 141,219              | 1,487            | 1,246  | 241   | 1,792      | -83               | 2,709           | 2,649        | 0        |
| 2010 | 143,395              | 1,489            | 1,275  | 214   | 2,631      | -158              | 3,586           | 4,129        | 0        |
| 2011 | 145,855              |                  |        |       |            |                   |                 |              |          |

\* Net Emigrants includes International Emigrants, Canadians Temporarily Abroad, Returning Canadians, and Non-Permanent Residents

**Table 2 – Projections, Total Population and Components of Growth 2012 – 2052**

| Year | Population<br>July 1 | July 1 - June 30 |        |        |            |                   |                 |       | Residual    |
|------|----------------------|------------------|--------|--------|------------|-------------------|-----------------|-------|-------------|
|      |                      | Natural Increase |        |        | Immigrants | Net<br>Emigrants* | Interprovincial |       |             |
|      |                      | Births           | Deaths | Net    |            |                   |                 |       | In-Migrants |
| 2011 | 145,855              | 1,462            | 1,277  | 185    | 1,379      | 62                | 2,910           | 2,934 | 0           |
| 2012 | 147,333              | 1,484            | 1,307  | 177    | 300        | 62                | 2,892           | 2,930 | 0           |
| 2013 | 147,710              | 1,499            | 1,338  | 161    | 300        | 61                | 2,867           | 2,905 | 0           |
| 2014 | 148,072              | 1,509            | 1,367  | 142    | 300        | 72                | 2,834           | 2,889 | 0           |
| 2015 | 148,387              | 1,524            | 1,395  | 129    | 300        | 69                | 2,810           | 2,847 | 0           |
| 2016 | 148,710              | 1,536            | 1,428  | 108    | 300        | 71                | 2,796           | 2,800 | 0           |
| 2017 | 149,043              | 1,540            | 1,461  | 79     | 300        | 73                | 2,713           | 2,735 | 0           |
| 2018 | 149,327              | 1,538            | 1,487  | 51     | 300        | 73                | 2,684           | 2,674 | 0           |
| 2019 | 149,615              | 1,527            | 1,524  | 3      | 299        | 75                | 2,662           | 2,662 | 0           |
| 2020 | 149,842              | 1,512            | 1,554  | -42    | 300        | 73                | 2,630           | 2,645 | 0           |
| 2021 | 150,012              | 1,491            | 1,587  | -96    | 300        | 70                | 2,612           | 2,622 | 0           |
| 2022 | 150,136              | 1,472            | 1,626  | -154   | 300        | 72                | 2,590           | 2,594 | 0           |
| 2023 | 150,206              | 1,449            | 1,663  | -214   | 300        | 72                | 2,571           | 2,572 | 0           |
| 2024 | 150,219              | 1,424            | 1,698  | -274   | 300        | 72                | 2,548           | 2,551 | 0           |
| 2025 | 150,170              | 1,398            | 1,742  | -344   | 300        | 71                | 2,505           | 2,533 | 0           |
| 2026 | 150,027              | 1,374            | 1,779  | -405   | 300        | 70                | 2,466           | 2,489 | 0           |
| 2027 | 149,829              | 1,347            | 1,824  | -477   | 300        | 68                | 2,441           | 2,464 | 0           |
| 2028 | 149,561              | 1,323            | 1,859  | -536   | 300        | 67                | 2,418           | 2,446 | 0           |
| 2029 | 149,230              | 1,299            | 1,901  | -602   | 299        | 65                | 2,397           | 2,453 | 0           |
| 2030 | 148,806              | 1,278            | 1,945  | -667   | 300        | 66                | 2,379           | 2,460 | 0           |
| 2031 | 148,292              | 1,261            | 1,992  | -731   | 300        | 67                | 2,367           | 2,464 | 0           |
| 2032 | 147,697              | 1,246            | 2,031  | -785   | 300        | 68                | 2,356           | 2,468 | 0           |
| 2033 | 147,032              | 1,237            | 2,070  | -833   | 300        | 71                | 2,344           | 2,459 | 0           |
| 2034 | 146,313              | 1,229            | 2,105  | -876   | 300        | 72                | 2,344           | 2,446 | 0           |
| 2035 | 145,563              | 1,229            | 2,144  | -915   | 300        | 72                | 2,349           | 2,450 | 0           |
| 2036 | 144,775              | 1,227            | 2,186  | -959   | 300        | 72                | 2,338           | 2,439 | 0           |
| 2037 | 143,943              | 1,228            | 2,219  | -991   | 300        | 72                | 2,326           | 2,442 | 0           |
| 2038 | 143,064              | 1,227            | 2,245  | -1,018 | 300        | 72                | 2,310           | 2,431 | 0           |
| 2039 | 142,153              | 1,228            | 2,273  | -1,045 | 300        | 72                | 2,300           | 2,423 | 0           |
| 2040 | 141,213              | 1,230            | 2,297  | -1,067 | 300        | 72                | 2,275           | 2,419 | 0           |
| 2041 | 140,230              | 1,228            | 2,307  | -1,079 | 300        | 72                | 2,262           | 2,408 | 0           |
| 2042 | 139,233              | 1,227            | 2,324  | -1,097 | 300        | 72                | 2,255           | 2,381 | 0           |
| 2043 | 138,238              | 1,227            | 2,334  | -1,107 | 300        | 72                | 2,245           | 2,353 | 0           |
| 2044 | 137,251              | 1,227            | 2,340  | -1,113 | 299        | 72                | 2,216           | 2,324 | 0           |
| 2045 | 136,257              | 1,219            | 2,350  | -1,131 | 300        | 72                | 2,199           | 2,304 | 0           |
| 2046 | 135,249              | 1,215            | 2,350  | -1,135 | 300        | 72                | 2,183           | 2,274 | 0           |
| 2047 | 134,251              | 1,207            | 2,356  | -1,149 | 300        | 72                | 2,144           | 2,231 | 0           |
| 2048 | 133,243              | 1,200            | 2,344  | -1,144 | 300        | 72                | 2,132           | 2,213 | 0           |
| 2049 | 132,246              | 1,194            | 2,339  | -1,145 | 299        | 72                | 2,102           | 2,185 | 0           |
| 2050 | 131,245              | 1,183            | 2,326  | -1,143 | 299        | 71                | 2,085           | 2,167 | 0           |
| 2051 | 130,248              | 1,171            | 2,311  | -1,140 | 299        | 71                | 2,068           | 2,145 | 0           |
| 2052 | 129,259              |                  |        |        |            |                   |                 |       |             |

\* Net Emigrants includes International Emigrants, Canadians Temporarily Abroad, Returning Canadians, and Non-Permanent Residents

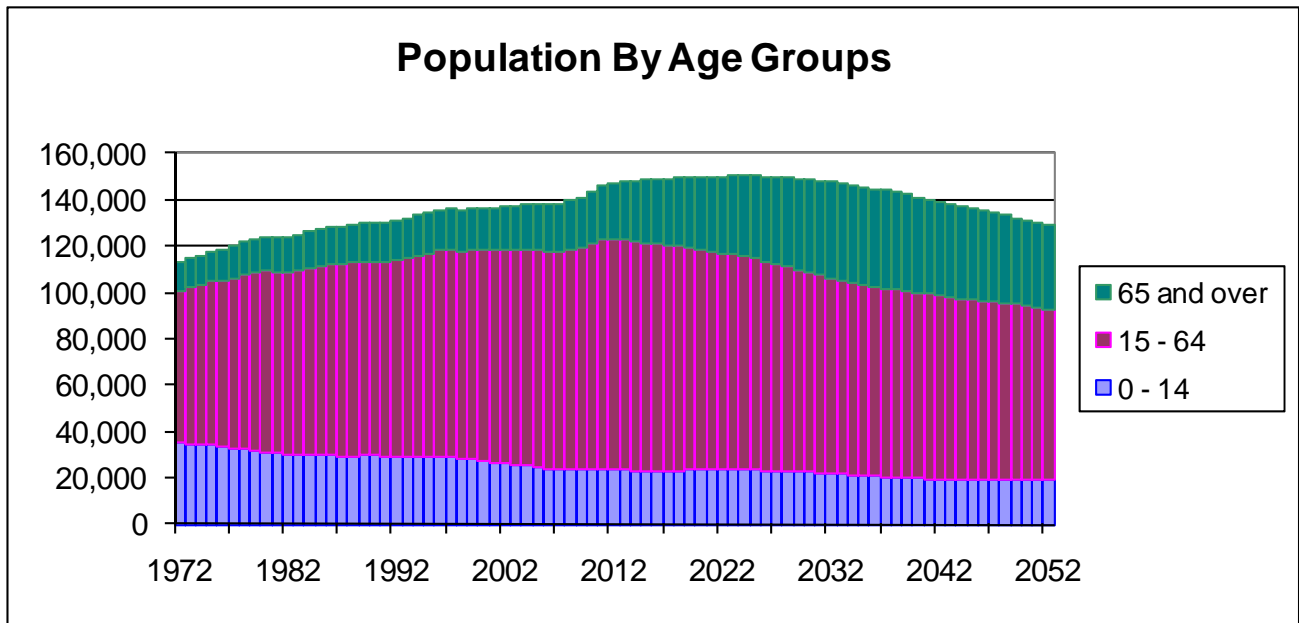
## Age Structure

- In 1972 the median age<sup>1</sup> in PEI was 25.1. By 2011, this has risen to 42.2. The median age for the province is projected to rise to 45.1 by 2021, 46.6 by 2031, 49.0 by 2041, and begin to fall once again to reach 48.2 by 2051.
- The proportion of seniors aged 65 and over in 2011 was 15.8 per cent. This is projected to rise to 21.5 per cent by 2021, 27.6 per cent by 2031, and to 29.2 per cent by 2041 before beginning to decline again, reaching 28.2 per cent by 2051.
- In 2011, the number of people 75 and over was 10,373. There were 9.6 people of working age per one person 75 and over. This age group is projected to double by 2035, reaching 20,864, and to continue to increase until 2042, reaching a peak of 23,383 before beginning to decline. By 2040, it is projected that there will only be 3.4 people of working age per one person 75 and over.
- In 2011, the percentage of the population that was working age (between 15 and 64) was 68.1 per cent. This is projected to decline, reaching 62.9 per cent by 2021 and 57.4 per cent by 2031. This percentage is projected to reach a low of 56.6 per cent in 2036, before beginning to climb back to 57.2 per cent by 2052. The total number of working age persons is expected to peak in 2012 at 99,840 and fall to reach 73,962 by 2052. (see Diagram 8)
- The percentage of children under 15 years old is also projected to decline. In 2011, this age group made up 16.1 per cent of the total population. By 2021, this is projected to fall to 15.7 per cent, 15.0 per cent by 2031, and 13.9 per cent by 2041, before beginning to increase once again to reach 14.5 per cent by 2051 (see Diagram 7).
- The total dependency ratio is the number of persons under age 15 and those aged 65 and older shown as a percentage of persons aged 15 to 64. It is the sum of the youth dependency ratio and the senior dependency ratio and represents the relative size of the population being supported by the working age population. In 1972, the total dependency ratio was 72.6 per cent. By 2008, this had reached an all time low of 46.6 per cent. In 2011 the total dependency ratio was 46.7 per cent. The ratio is projected to steadily increase, reaching a peak of 76.6 per cent by 2037. Diagram 9 shows the dependency ratio for P.E.I. since 1971 and projections to 2052.
- The aging of the population can be seen most evidently by looking at the age pyramid diagrams, which show the proportion of the population by gender and age groups. (Diagrams 9A –C)

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<sup>1</sup> The median age is the age at which half the population is older and half the population is younger.

**Diagram 7**



**Diagram 8**

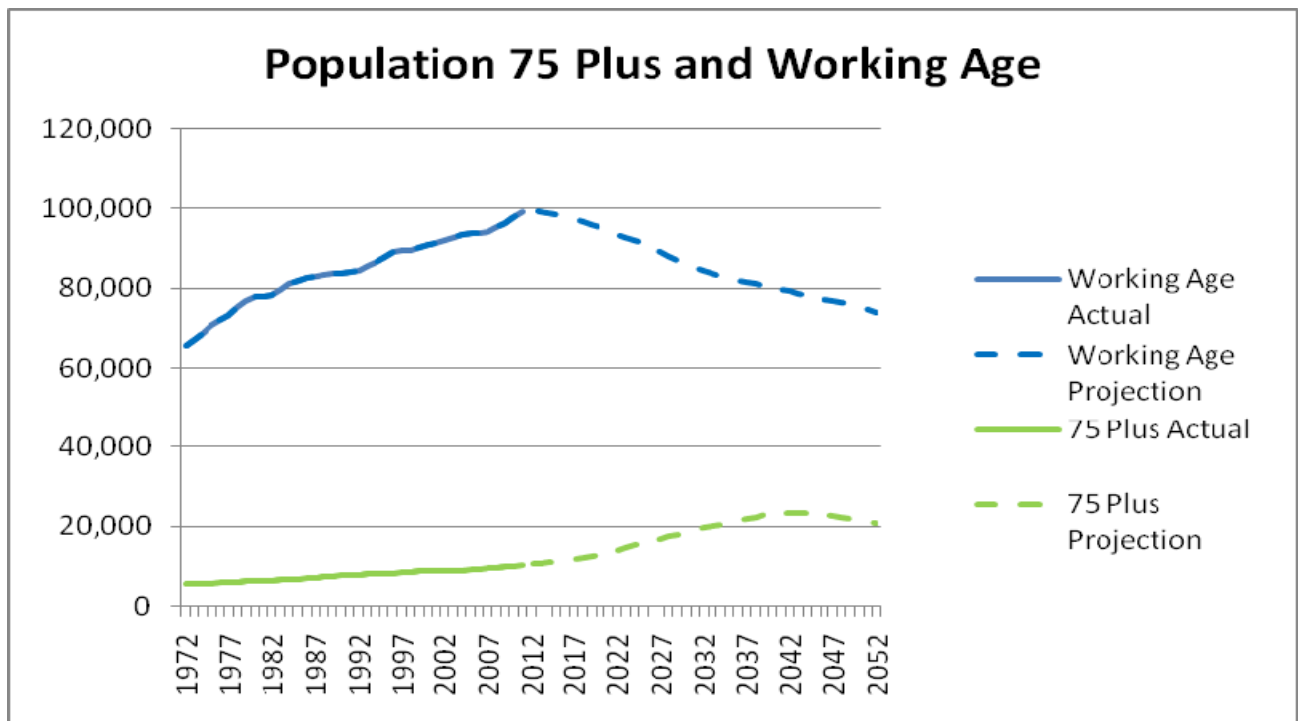
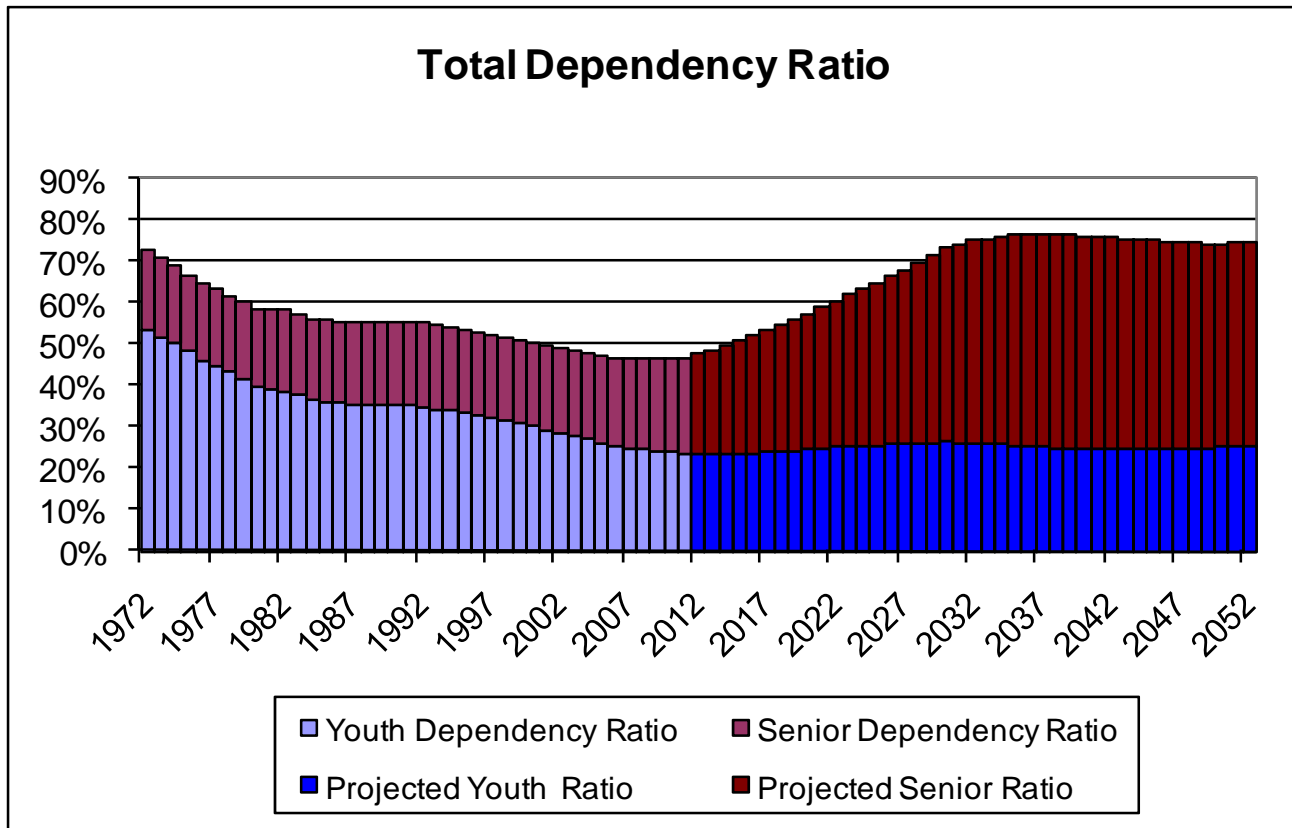
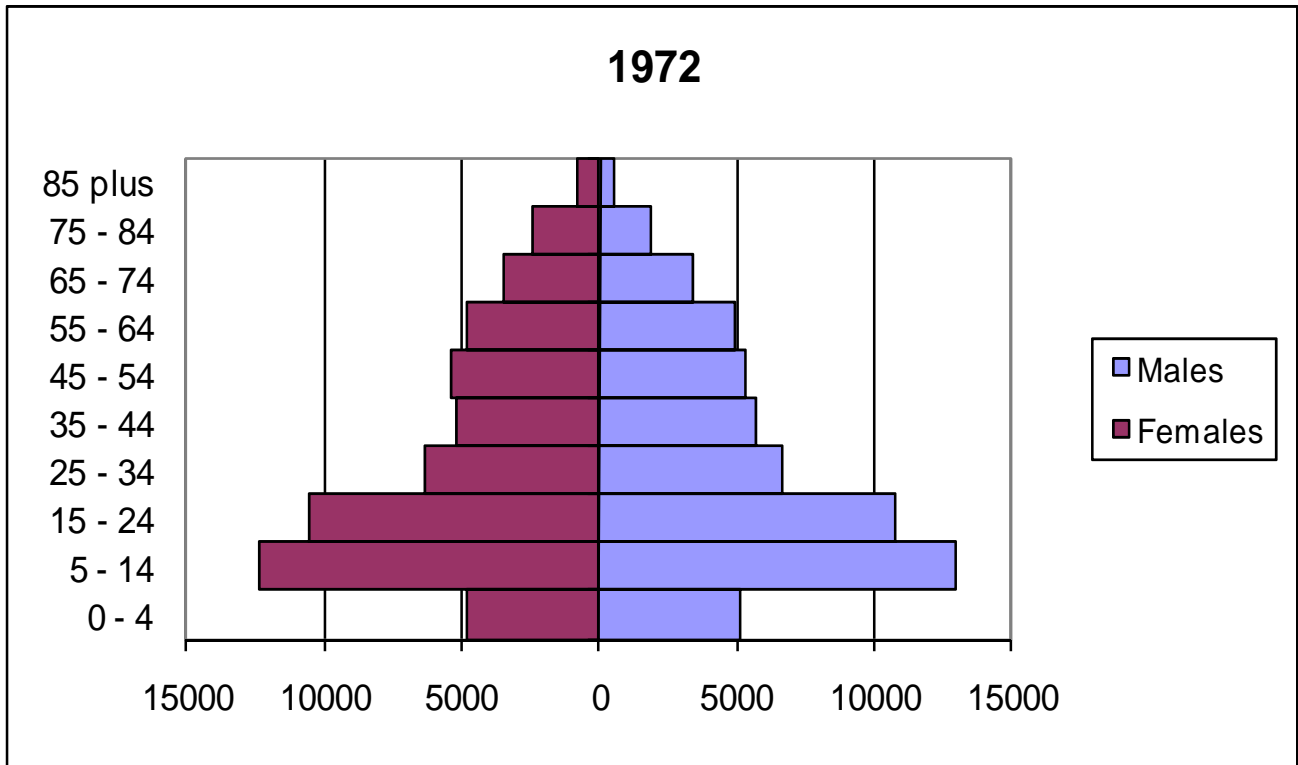


Diagram 9



**Age Pyramids**  
**Diagram 9a**



**Diagram 9b – Current Year**

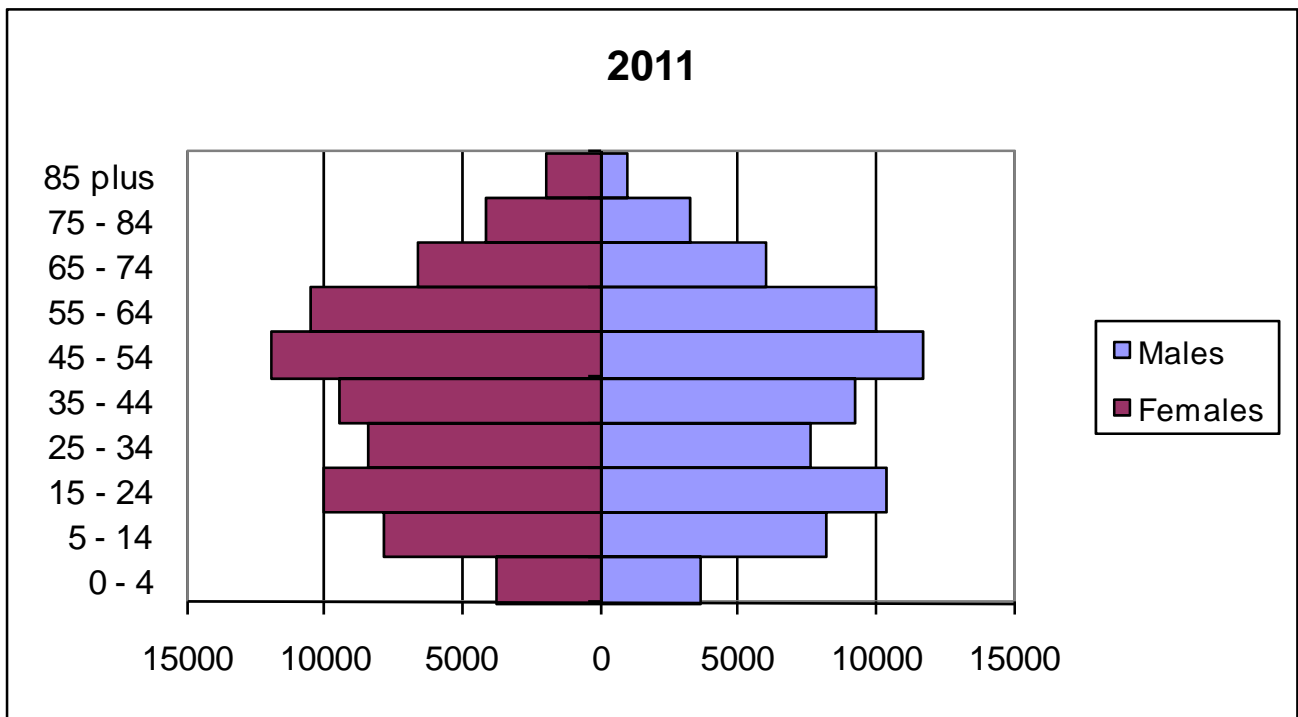
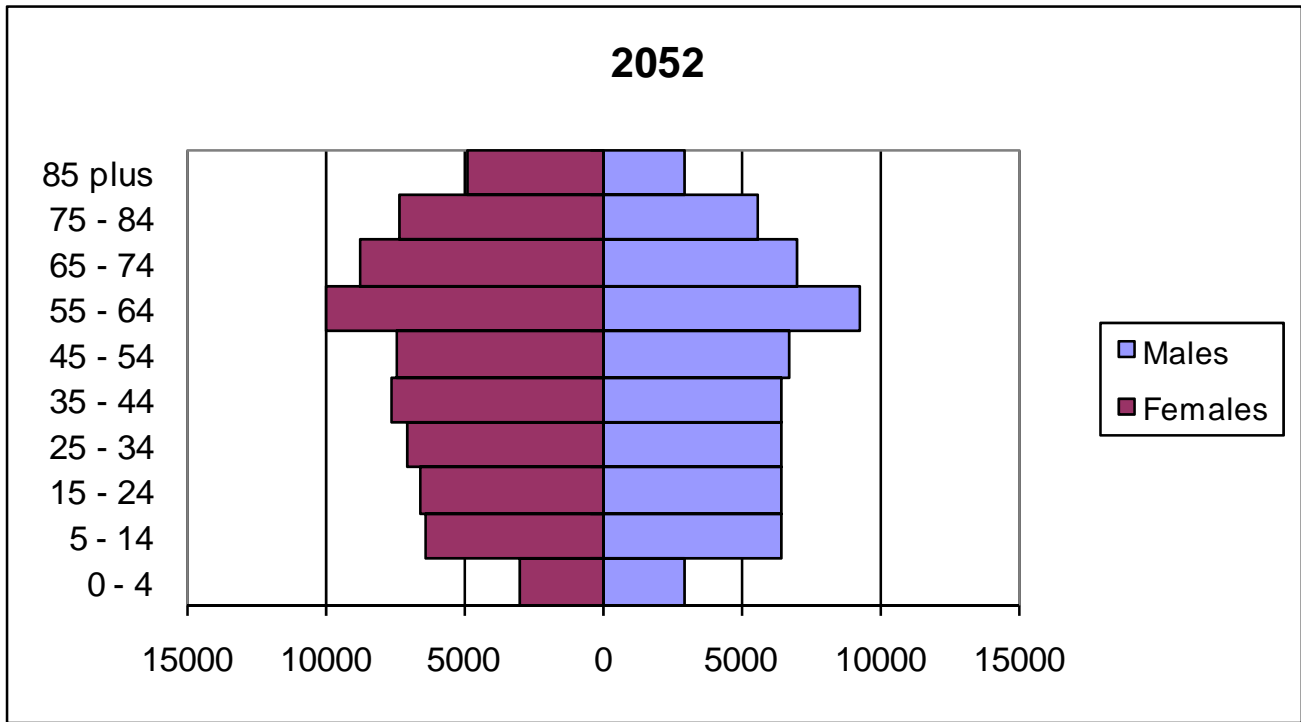


Diagram 9c



**Table 3 – Population by Age Group, estimates 1972-2011**

| Year | 0 - 4 | 5 - 14 | 15 - 24 | 25 - 34 | 35 - 44 | 45 - 54 | 55 - 64 | 65 - 74 | 75 - 84 | 85 plus |
|------|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1972 | 9,959 | 25,259 | 21,297  | 13,046  | 10,906  | 10,709  | 9,777   | 6,895   | 4,271   | 1,341   |
| 1973 | 9,895 | 24,857 | 21,597  | 13,897  | 11,091  | 10,669  | 9,908   | 7,033   | 4,261   | 1,412   |
| 1974 | 9,808 | 24,558 | 21,870  | 14,848  | 11,261  | 10,626  | 10,097  | 7,131   | 4,333   | 1,430   |
| 1975 | 9,812 | 24,223 | 22,367  | 15,769  | 11,572  | 10,637  | 10,320  | 7,243   | 4,362   | 1,419   |
| 1976 | 9,626 | 23,628 | 23,011  | 16,409  | 11,729  | 10,580  | 10,377  | 7,484   | 4,376   | 1,428   |
| 1977 | 9,583 | 23,342 | 23,176  | 17,120  | 11,972  | 10,637  | 10,436  | 7,697   | 4,487   | 1,452   |
| 1978 | 9,659 | 22,813 | 23,810  | 17,921  | 12,275  | 10,702  | 10,490  | 7,952   | 4,562   | 1,500   |
| 1979 | 9,773 | 22,010 | 24,327  | 18,495  | 12,669  | 10,811  | 10,429  | 8,217   | 4,571   | 1,583   |
| 1980 | 9,745 | 21,375 | 24,478  | 19,089  | 13,042  | 10,848  | 10,487  | 8,425   | 4,617   | 1,629   |
| 1981 | 9,623 | 20,917 | 23,821  | 19,312  | 13,409  | 10,974  | 10,547  | 8,663   | 4,561   | 1,724   |
| 1982 | 9,524 | 20,730 | 23,131  | 19,225  | 14,097  | 11,099  | 10,560  | 8,814   | 4,622   | 1,786   |
| 1983 | 9,522 | 20,510 | 23,327  | 19,534  | 14,952  | 11,178  | 10,593  | 8,898   | 4,753   | 1,835   |
| 1984 | 9,491 | 20,292 | 23,509  | 19,884  | 15,743  | 11,341  | 10,568  | 9,049   | 4,847   | 1,839   |
| 1985 | 9,569 | 20,111 | 23,272  | 20,221  | 16,404  | 11,532  | 10,503  | 9,213   | 4,918   | 1,876   |
| 1986 | 9,677 | 19,835 | 22,719  | 20,822  | 16,906  | 11,719  | 10,522  | 9,288   | 5,060   | 1,888   |
| 1987 | 9,643 | 19,710 | 22,065  | 20,962  | 17,461  | 11,864  | 10,516  | 9,334   | 5,206   | 1,880   |
| 1988 | 9,637 | 19,788 | 21,270  | 21,253  | 18,148  | 12,012  | 10,547  | 9,356   | 5,414   | 1,864   |
| 1989 | 9,779 | 19,867 | 20,510  | 21,462  | 18,769  | 12,355  | 10,623  | 9,272   | 5,633   | 1,883   |
| 1990 | 9,775 | 19,801 | 19,896  | 21,338  | 19,251  | 12,691  | 10,648  | 9,265   | 5,824   | 1,915   |
| 1991 | 9,520 | 19,860 | 19,584  | 20,788  | 19,629  | 13,157  | 10,722  | 9,289   | 5,939   | 1,881   |
| 1992 | 9,440 | 19,796 | 19,492  | 20,358  | 19,732  | 13,940  | 10,858  | 9,337   | 5,967   | 1,907   |
| 1993 | 9,508 | 19,861 | 19,506  | 20,243  | 20,022  | 14,767  | 10,964  | 9,331   | 5,991   | 1,984   |
| 1994 | 9,416 | 19,908 | 19,656  | 20,070  | 20,244  | 15,591  | 11,119  | 9,341   | 6,060   | 2,032   |
| 1995 | 9,145 | 20,130 | 19,554  | 19,817  | 20,512  | 16,376  | 11,363  | 9,249   | 6,155   | 2,114   |
| 1996 | 9,065 | 20,169 | 19,601  | 19,686  | 20,938  | 17,115  | 11,633  | 9,217   | 6,173   | 2,140   |
| 1997 | 8,706 | 20,124 | 19,383  | 19,337  | 21,250  | 17,818  | 11,779  | 9,293   | 6,223   | 2,182   |
| 1998 | 8,335 | 19,876 | 19,116  | 18,516  | 21,569  | 18,464  | 11,978  | 9,355   | 6,333   | 2,262   |
| 1999 | 8,138 | 19,718 | 18,959  | 18,047  | 21,749  | 19,047  | 12,448  | 9,488   | 6,301   | 2,386   |
| 2000 | 7,954 | 19,367 | 19,086  | 17,351  | 21,827  | 19,675  | 12,853  | 9,571   | 6,317   | 2,469   |
| 2001 | 7,575 | 19,093 | 19,285  | 16,921  | 21,541  | 20,228  | 13,348  | 9,749   | 6,425   | 2,498   |
| 2002 | 7,315 | 18,735 | 19,324  | 16,780  | 21,300  | 20,299  | 14,262  | 9,863   | 6,503   | 2,495   |
| 2003 | 7,220 | 18,354 | 19,316  | 16,710  | 21,001  | 20,359  | 15,175  | 10,085  | 6,493   | 2,508   |
| 2004 | 7,074 | 18,007 | 19,345  | 16,692  | 20,771  | 20,451  | 16,043  | 10,260  | 6,516   | 2,515   |
| 2005 | 6,889 | 17,631 | 19,378  | 16,557  | 20,441  | 20,700  | 16,813  | 10,475  | 6,571   | 2,600   |
| 2006 | 6,702 | 17,165 | 19,203  | 16,259  | 20,025  | 21,093  | 17,385  | 10,768  | 6,632   | 2,688   |
| 2007 | 6,767 | 16,670 | 19,291  | 15,900  | 19,528  | 21,470  | 17,995  | 11,055  | 6,707   | 2,778   |
| 2008 | 6,920 | 16,435 | 19,465  | 15,900  | 19,157  | 22,027  | 18,659  | 11,305  | 6,876   | 2,860   |
| 2009 | 7,046 | 16,338 | 19,723  | 15,783  | 18,896  | 22,602  | 19,220  | 11,712  | 7,038   | 2,861   |
| 2010 | 7,197 | 16,203 | 20,133  | 15,915  | 18,611  | 23,223  | 19,854  | 12,154  | 7,194   | 2,911   |
| 2011 | 7,430 | 16,000 | 20,448  | 16,092  | 18,713  | 23,612  | 20,533  | 12,654  | 7,431   | 2,942   |

**Table 4 – Population by Age Group, projections 2012-2052**

| Year | 0 - 4 | 5 - 14 | 15 - 24 | 25 - 34 | 35 - 44 | 45 - 54 | 55 - 64 | 65 - 74 | 75 - 84 | 85 plus |
|------|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| 2012 | 7,467 | 15,954 | 20,475  | 16,293  | 18,602  | 23,746  | 20,724  | 13,501  | 7,570   | 3,001   |
| 2013 | 7,454 | 15,860 | 20,074  | 16,513  | 18,228  | 23,574  | 20,946  | 14,307  | 7,719   | 3,035   |
| 2014 | 7,445 | 15,729 | 19,553  | 16,857  | 17,883  | 23,431  | 21,158  | 15,074  | 7,860   | 3,082   |
| 2015 | 7,461 | 15,573 | 18,975  | 17,322  | 17,554  | 23,117  | 21,443  | 15,780  | 8,036   | 3,126   |
| 2016 | 7,500 | 15,513 | 18,276  | 17,841  | 17,198  | 22,711  | 21,890  | 16,368  | 8,246   | 3,167   |
| 2017 | 7,579 | 15,534 | 17,543  | 18,319  | 16,910  | 22,228  | 22,310  | 16,942  | 8,442   | 3,236   |
| 2018 | 7,636 | 15,559 | 17,006  | 18,618  | 16,774  | 21,398  | 22,861  | 17,511  | 8,622   | 3,342   |
| 2019 | 7,676 | 15,582 | 16,644  | 18,813  | 16,559  | 20,622  | 23,372  | 17,987  | 8,950   | 3,410   |
| 2020 | 7,696 | 15,637 | 16,298  | 18,829  | 16,559  | 19,802  | 23,795  | 18,483  | 9,266   | 3,477   |
| 2021 | 7,686 | 15,834 | 15,798  | 18,775  | 16,710  | 19,235  | 23,783  | 18,993  | 9,627   | 3,571   |
| 2022 | 7,639 | 15,879 | 15,598  | 18,618  | 16,790  | 18,813  | 23,708  | 19,149  | 10,305  | 3,637   |
| 2023 | 7,569 | 15,921 | 15,519  | 18,257  | 17,006  | 18,423  | 23,527  | 19,351  | 10,942  | 3,691   |
| 2024 | 7,475 | 15,948 | 15,424  | 17,765  | 17,342  | 18,081  | 23,362  | 19,540  | 11,532  | 3,750   |
| 2025 | 7,364 | 15,978 | 15,309  | 17,205  | 17,818  | 17,755  | 23,033  | 19,812  | 12,068  | 3,828   |
| 2026 | 7,243 | 15,989 | 15,282  | 16,526  | 18,345  | 17,388  | 22,623  | 20,223  | 12,490  | 3,918   |
| 2027 | 7,120 | 16,004 | 15,318  | 15,812  | 18,837  | 17,085  | 22,141  | 20,606  | 12,893  | 4,013   |
| 2028 | 6,991 | 15,978 | 15,354  | 15,288  | 19,138  | 16,947  | 21,318  | 21,118  | 13,304  | 4,125   |
| 2029 | 6,864 | 15,911 | 15,384  | 14,924  | 19,333  | 16,719  | 20,551  | 21,593  | 13,654  | 4,297   |
| 2030 | 6,737 | 15,802 | 15,432  | 14,587  | 19,341  | 16,718  | 19,754  | 21,976  | 14,006  | 4,453   |
| 2031 | 6,612 | 15,651 | 15,602  | 14,114  | 19,266  | 16,872  | 19,201  | 21,946  | 14,385  | 4,643   |
| 2032 | 6,495 | 15,464 | 15,647  | 13,902  | 19,088  | 16,951  | 18,781  | 21,844  | 14,527  | 4,998   |
| 2033 | 6,390 | 15,243 | 15,681  | 13,810  | 18,691  | 17,179  | 18,391  | 21,651  | 14,685  | 5,311   |
| 2034 | 6,302 | 15,001 | 15,706  | 13,692  | 18,147  | 17,528  | 18,052  | 21,471  | 14,837  | 5,577   |
| 2035 | 6,231 | 14,748 | 15,729  | 13,568  | 17,526  | 18,031  | 17,728  | 21,138  | 15,060  | 5,804   |
| 2036 | 6,184 | 14,490 | 15,739  | 13,532  | 16,792  | 18,584  | 17,366  | 20,746  | 15,379  | 5,963   |
| 2037 | 6,152 | 14,236 | 15,754  | 13,547  | 16,027  | 19,095  | 17,073  | 20,291  | 15,668  | 6,100   |
| 2038 | 6,135 | 13,993 | 15,718  | 13,567  | 15,456  | 19,410  | 16,938  | 19,531  | 16,065  | 6,251   |
| 2039 | 6,126 | 13,769 | 15,643  | 13,583  | 15,046  | 19,604  | 16,718  | 18,842  | 16,430  | 6,392   |
| 2040 | 6,128 | 13,562 | 15,529  | 13,624  | 14,686  | 19,592  | 16,727  | 18,129  | 16,707  | 6,529   |
| 2041 | 6,129 | 13,389 | 15,367  | 13,783  | 14,188  | 19,499  | 16,896  | 17,622  | 16,650  | 6,707   |
| 2042 | 6,132 | 13,236 | 15,172  | 13,807  | 13,977  | 19,295  | 16,988  | 17,243  | 16,537  | 6,846   |
| 2043 | 6,135 | 13,121 | 14,948  | 13,820  | 13,900  | 18,884  | 17,218  | 16,889  | 16,350  | 6,973   |
| 2044 | 6,136 | 13,034 | 14,704  | 13,832  | 13,808  | 18,325  | 17,576  | 16,592  | 16,165  | 7,079   |
| 2045 | 6,134 | 12,973 | 14,460  | 13,846  | 13,697  | 17,694  | 18,076  | 16,299  | 15,870  | 7,208   |
| 2046 | 6,122 | 12,937 | 14,205  | 13,857  | 13,679  | 16,950  | 18,627  | 15,969  | 15,545  | 7,358   |
| 2047 | 6,109 | 12,912 | 13,958  | 13,887  | 13,709  | 16,182  | 19,125  | 15,718  | 15,174  | 7,477   |
| 2048 | 6,092 | 12,896 | 13,724  | 13,881  | 13,745  | 15,610  | 19,421  | 15,606  | 14,597  | 7,671   |
| 2049 | 6,068 | 12,892 | 13,509  | 13,845  | 13,772  | 15,201  | 19,597  | 15,411  | 14,100  | 7,851   |
| 2050 | 6,036 | 12,900 | 13,305  | 13,775  | 13,825  | 14,836  | 19,577  | 15,426  | 13,600  | 7,965   |
| 2051 | 6,000 | 12,895 | 13,137  | 13,668  | 14,009  | 14,330  | 19,478  | 15,591  | 13,227  | 7,913   |
| 2052 | 5,953 | 12,888 | 12,996  | 13,533  | 14,048  | 14,124  | 19,261  | 15,687  | 12,954  | 7,815   |

## Limitations of Population Projections

In general, all assumptions relating to the components of population change (i.e., migration, births and deaths) are based on past conditions, modified wherever possible to take into consideration possible future changes. Consequently, the resulting population projections are not necessarily what will be, but rather what could be given the realization of these conditions. It is certainly possible that unforeseen changes in factors such as government policy, economic development, land use and zoning will affect future populations. As a result, the projections should be regarded as only one possible scenario of the future size and age-gender structure of the population.

## The Component/Cohort-Survival Method

Prince Edward Island population projections result from the application of a 'component/cohort-survival' population model to assumptions dealing with fertility, mortality and migration. The component/cohort-survival method requires separate projections of each of the components of population change, namely fertility, mortality and net migration. With this information, and with a base year age-specific estimate of population, a projection for any subsequent year is made by promoting each age group in the preceding year to next highest age group, while at the same time taking into account the effects of net migration, deaths and births.

Specifically, beginning from a base year estimate of population by single year of age and sex, each age group  $i$  in the base year  $t$  is promoted to the next higher age group  $i+1$  in time  $t+1$ , while at the same time taking into account the effects of net migration, births and/or deaths in that age cohort. This process is then repeated for the number of years required.

Data tables can be downloaded at [https://www.gov.pe.ca/photos/original/pt\\_popproj\\_data.xls](https://www.gov.pe.ca/photos/original/pt_popproj_data.xls)

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Projections are calculated by Prince Edward Island Statistics Bureau, based on historical population estimates provided by Statistics Canada, Demography Division, up to and including 2011.

Source of population estimates and components of growth 1972 to 2011: Statistics Canada, Demography Division, *Table 051-0004 Components of population growth, Canada, provinces and territories, annual*. CANSIM (database), <http://cansim2.statcan.gc.ca/cgi-win/CNSMCGI.PGM>