

Population Projections for Japan: 2001-2050

With Long-range Population Projections: 2051 - 2100

January, 2002



National Institute of Population and
Social Security Research

Population Projections for Japan (January, 2002)

The National Institute of Population and Social Security Research officially announced the new future population projections for Japan. The previous projection, published as “*Population Projections for Japan, January 1997*,” was based on the 1995 population census, whereas this 12th projection is based on the results of the 2000 population census and the Vital Statistics.

I. Summary of the Japanese Population Projection

1. Trend of the Total Population

According to the 2000 population census, the base year of this projection, the total population of Japan was 126.93 million. Based on the results of the medium variant projection, the population is expected to gradually increase in subsequent years, reaching its peak of 127.74 million in 2006, then enter a longstanding depopulation process. The population is expected to drop to the current size by 2013, then decrease to about 100.6 million in 2050 (see Table 1, Figure 1).

Based on the results of the high variant projection, the gross population is expected to reach its peak in 2009 at 128.15 million, a little later than the medium variant projection. A downward turn is expected subsequently, reaching 108.25 million in 2050 (see Table 2, Figure 1).

Based on the results of the low variant projection, the total population is expected to reach its peak of 127.48 million in 2004, then subsequently decrease to 92.03 million in 2050 (see Table 3, Figure 1).

These projections show that Japan will soon enter into the era of population decline, bringing the trend of population increase to an end. The fact that the fertility rate has been far below the level required to maintain the stationary population (population replacement level, total fertility rate requires approximately 2.08) since the mid-70s, together with the low-fertility rate trend continuing for a quarter-century, make the depopulation which start at the beginning of this century almost inevitable.

2. Population Trend for Three Major Age Groups

(1) Trend of Child Population (aged under 15)

The number of births has declined from 2.09 million in 1973 to 1.19 million in 2000. Consequently, the population of this age group has decreased from 27 million in the beginning of the 1980s to 18.51 million in the population census of 2000. According to the medium variant projection, the children's population will diminish to the 17 million level in 2003 (see Table 1, Figure 3). The decline will continue together with the low fertility rate trend, and the population of this age group is expected to fall below 16 million in 2016, then enter the slow, longstanding depopulation process. Eventually, in the last year of projection (2050), the population is expected to be 10.84 million.

According to the children's population trends based on the difference of the future fertility assumptions in terms of high and low variant projections, this age group is expected to be on the decline even in the high variant projection (due to the longstanding low fertility) and will reach 14 million in 2050 (see Table 2). According to the low variant projection, a rapid decline in population in this age group due to the very low fertility rate is expected. The projection is that the population will diminish from the current size of 18 million to below 15 million in 2014, and eventually down to 7.5 million by the middle of this century (see Table 3).

(2) Trend of Working-age Population (15 to 64)

The population of the working-age group has consistently increased during the post-war years, and reached its peak in the 1995 census at 87.17 million. It subsequently entered a decreasing phase, and according to the census figures compiled in 2000, the population has diminished to 86.38 million.

According to the medium variant projection, the population of this age group reached its peak in 1995, subsequently made an about-turn to enter a declining phase, and is expected to fall below 70 million in 2030, and eventually drop to 53.89 million in 2050 (see Table 1, Figure 3).

According to the working-age population trend based on the differences on the assumptions of fertility rate in terms of high and low variant projections, the depopulation of this age group is rather slow due to the high fertility rate, and the population is expected to fall below 70 million in 2033. The depopulation continues down to 58.38 million in 2050 (see Table 2). The working-age population based on the low variant projections is expected to fall below 70 million in 2028, below 50 million in 2049, and eventually drop to 48.68 million in 2050 (see Table 3).

(3) Trend of Aged Population (aged 65 and over)

The results of the medium variant projection show that, contrary to the decline in the populations of the children's and working-age groups, the aged group will continue its fast-paced increase, growing from the current size of about 22 million to 30 million in 2013, and eventually up to 34.17 million in 2018 (see Table 1, Figure 3). That is, this age group will grow rapidly until the baby-boom generation (born between 1947 and 1949) is in the over-65 age bracket. Subsequently, with the generation that reduced the post-war growth entering the aged group, the speed of increase slows down; the population will peak in 2043 when the second baby-boom generation enters the aged group, then takes a downward turn to about 35.86 million in 2050. The high and low variant projections show the same result as the medium variant projection, since the assumptions of the future survival rate and international migration are the same (see Table 2, Table 3).

3. Trend of the Proportion of Three Major Age Groups

(1) Trend of Child Population (aged under 15)

The proportion of this group, according to the medium variant projection, is expected to shrink from the current 14.6% level (2000) to the 14% mark in 2005, and eventually down to 12.0% in 2021 (see Table 1, Figure 4). The downward trend continues to 11.0% in 2036, and by 2050, the percentage is expected to be around 10.8%.

The high variant projection show that the decline in the proportion of the children's population is rather slow, falling below the 14% range in 2007, then down to 12.9% in 2050.

The decline in the proportion of the children's population is rapid in the low variant projections, breaking the 14% mark in 2004, falling below 10% in 2024, and eventually down to 8.1% in 2050.

(2) Trend of Working-age Population (15 to 64)

The population of the working-age group, according to the medium variant projection, started falling in 2000 at 68.1%, and is expected to reduce to 60.0% in 2020 (see Table 1, Figure 4). The decline continues on slowly to 10 points lower than the current standard in 2035 at 58.0%, 54.9% in 2043, and eventually to 53.6% in 2050.

The annual trend of the high variant projection shows similar results, except that the decline trend is slightly slower. The proportion of this age group in 2050 is only 0.3 points higher than the medium variant projection (53.9%).

The proportion of this age group for the low variant projection shows a slower reduction as compared with the medium variant projection - that is, the percentage reaches 60.0% in 2030. However, the subsequent decline is fast-paced, reaching 52.9% in 2050. This seemingly contradictory trend results from the proportion of the working-age group being the relative index.

(3) Trend of Aged Population (aged 65 and over)

The percentage of the aged generation will grow from the current 17.4% (2000) to the 25% range in 2014, meaning that this age group will comprise one-quarter of the population of Japan. It will reach 27.0% in 2017 (see Table 1, Figure 3). The aged generation will undergo a trend after 2018 until around 2034 when it reaches the 34 million range, continues to increase after 2018 impacted by the low fertility rate, and eventually reaches the 30 plus-percent range in 2033. The increase persists, reaching 35.7% in 2050; that is, 1 in 2.8 persons will be over 65.

The variance in the aging trend due to the difference in the assumptions of fertility rate, as compared with the results of the high and low variant projections, shows only a minor variance until around 2018. A difference of 1.5 points is seen between the low variant projection in 2025 (29.5%) and the high variant projection during the same period (28.0%) (see Table 2, Figure 3). This difference shows the impact that the future fertility rate has on aging. The difference in the aging level grows wider as the years go by, and in 2050 the high variant is 33.1%, whereas the low variant is 39.0%, the difference being 5.9 points. Hence, the longstanding low fertility rate in society has a relative effect on the aging population level (see Figure 2).

4. Changes in the Population Pyramid

The population pyramid in Japan, in general, continues to age. The pyramid appears uneven at the older age bracket, because of the fast-paced fluctuation in the past fertility rates - that is, the rapid increase in the number of live birth from 1947 to 1949 (first baby-boom) and the sharp decline in live birth from 1950 to 1957 (baby bust) (see Figure 5).

The population pyramid in 2000 consists of the first baby-boomer generation at the beginning of the 50s, and the second baby-boomer generation at the end of the 20s. In the 2025 pyramid, the first baby-boomers will be at the end of the 70s, and the second baby-boomers at the beginning of the 50s. It can therefore be concluded that the aging of society toward 2025 is centered on the first baby-boomer generation. On the other hand, the rise in the aging standard around 2050 is the result of interaction of the aging of the second baby-boomer generation and the downsizing of the population per generation.

Hence the population pyramid in Japan has transformed from the pre-war shape of Mt. Fuji to the recent shape of a temple bell, and finally to an urn-shape in the future.

5. Trend of the Population Dependency Ratio

The population dependency ratio is used as an index to express the level of support of the working-age group, through comparison of the relative size of the children's and aged populations versus the population of the working-age group. The old-age dependency ratio (calculated by dividing the aged population by the population of the working-age group) based on the medium variant projection increases from the current 26% (that is, 3.9 labor forces supporting 1 senior resident) to the 50% range in 2030 (that is, 2 labor forces supporting 1 senior resident), then eventually up to 67% in 2050 (that is, 1.5 labor forces supporting 1 senior resident) (see Table 4). In contrast, the child dependency ratio (calculated by dividing the children's population by the population of the working-age group) is expected to undergo a trend from the current 21% (that is, 4.7 labor forces supporting 1 child resident) to a level of 19 to 21% in the future.

Despite the assumption that the low fertility rate reduces the children's population, the child dependency ratio is not expected to decrease considerably, because the parent generation, the working-age group, itself shrinks in size.

The child dependency ratio and the old-age dependency ratio added together is called the overall dependency ratio, and this ratio is used to see the degree of support on the entire working-age population; the overall dependency ratio increases along with the trend of the old-age dependency ratio. The overall dependency ratio is expected to increase to 67% in 2022 from the current 47% under the declining trend of the working-age population, then reach 87% in 2050.

6. Trend of the Births, Deaths and their Rates

According to the medium variant projection, the crude death rate (mortality per thousand) is expected to continue its increase from 7.7‰ (per mill) in 2001 to 12.1‰ in 2020, and eventually to 16.2‰ in 2050 (see Table 5). Although the assumption of continual boost in life expectancy and increase in crude death rate seem contradictory, it is because the ratio of senior population with a high mortality rate will increase as the population in Japan ages rapidly.

The crude fertility rate (births per thousand) is expected to decline from 9.4‰ in 2001 to 8.0‰ in 2013. The crude fertility rate continues to decline in subsequent years, reaching 7.0‰ in 2035 and to 6.7‰ in 2050.

The crude rate of natural increase, the difference between the crude fertility rate and the crude death rate, is expected to remain positive at the current 1.7‰ for a while, but will become negative in 2006, and eventually will reach -9.5‰ in 2050.

According to this medium variant projection, annual births continue to decrease from 1.19 million in 2001, and are expected to fall below 1.10 million in 2008, and eventually down to less than 1 million in 2014. The number of births continues to shrink, down to 67 thousand in 2050 (see Table 5). On the other hand, the number of deaths continues to increase from 98 thousands in 2001, to 1.51 million in 2021, and peaks at 1.7 million in 2038. It will then show a slight decrease, down to about 1.62 million, in 2050.

II. Summary of the Methodology and Assumptions for the Population Projections

1. Period of Projection

The period of projection is 50 years, from 2001 to 2050.

2. Method of Projection

The cohort component method is used for this projection, as with the previous report. This method takes into consideration international migration while calculating the ages of the existing population using the future life table. It also uses the future fertility rate to calculate future births and obtain the number of survivors for the population that is expected to accrue. Five items, (1) base population, (2) future survival rate, (3) future fertility rate, (4) future sex ratio at birth, and (5) future international migration numbers (rates), are required to project the population using the cohort component method.

3. Base Population

As for the starting point of the projection, called the base population, the male and female population figures, classified by age group (including non-Japanese residents) as of October 1, 2000, excerpted from the Population Census of Japan compiled by the Statistics Bureau, Management and Coordination Agency, were used. The “age unknown” figure was distributed over all age groups.

4. Assumption of the Survival Rate (Future Life Table)

In order to project the population from one year to the next, survival rates by age and sex are needed, and, to obtain future survival rates, future life tables may be constructed.

There are three main ways to construct a future life table: the empirical method, the mathematical method, and the relational model method. This projection has adopted the Lee and Carter model, which is based on the relational model, and modified it to suit the purpose of this projection. The Lee and Carter model describes age-specific changes of mortality with a single index of mortality by decomposing a matrix of age-specific death rates into the ‘average’ mortality age schedule, the general level of mortality (mortality index), the age-specific changes in the mortality schedule when the general level of mortality changes, and an error term. Non-linear curves were fitted to the data after 1970 in order to reflect the changes in the level of mortality that had gradually been easing off during the past 30 years. The data for 1995 were excluded due to the influence of the Great Hanshin Earthquake, the future life tables were constructed separately for 2001 because of the very low reported death counts in February of that year, and the final fittings were done. The future life tables were constructed from the assumed age- and sex-specific death rates until 2050, based upon the parameters obtained through the above procedures.

According to the future life tables, the life expectancy, 77.64 years for males and 84.62 years for females in the year 2000, is expected to extend to 78.11 years for males and 85.20 years for females in 2005, 79.76 years for males and 87.52 years for females in 2025, and, in 2050, 80.95 years for males and 89.22 years for females (see Table 6, Figure 6).

5. Assumptions of Fertility Rates

The age-specific fertility rates are required in order to project the number of births in future. There are two methods used to estimate future fertility rates: the period-fertility method and the cohort-fertility method. The latter was adopted for this projection. The cohort-fertility method observes the birth process per female birth cohort on an annual basis, and forecasts the level of completed fertility and the birth timing for cohorts in which the birth process is incomplete. The age-specific fertility rate on an annual basis and total fertility rates can be obtained by converting the estimated cohort fertility data into annual data. Due to an extensive uncertainty in future fertility, three assumptions (medium, high, and low variant projections) are compiled and fertility rates are projected for each of them.

(1) Assumption for the Medium Variant

- (i) The mean age of marriage for cohort has advanced from 24.4 years for the cohort born in 1950 to 27.8 years for the cohort born in 1985; this tendency will not change for cohorts born in 2000 and after.
- (ii) The proportion never married has advanced from 4.9% for the cohort born in 1950 to 16.8% for the cohort born in 1985; it will not change for cohorts born in 2000 and after.
- (iii) The completed number of births from married persons is affected by later marriage, later childbearing, and changes in reproductive behavior of couples; it has advanced from 2.14 for the cohort born between 1948 and 1952 to 1.72 for the cohort born in 1985; it will not change for cohorts born in 2000 and after.
- (iv) The distribution of completed fertility among females appears as follows, and remains consistent for cohorts born in 2000 and after.

| Birth cohort | Completed cohort fertility | Distribution of live births (%) | | | | |
|--------------|----------------------------|---------------------------------|------|------|------|-----------|
| | | None | 1 | 2 | 3 | 4 or more |
| 1950 | 1.98 | 10.0 | 12.3 | 52.1 | 21.1 | 4.6 |
| 1985 | 1.39 | 31.2 | 18.5 | 33.9 | 12.9 | 3.5 |

In this case, the total fertility rate will decline from 1.36 in 2000 to 1.31 in 2007. Thereafter, a gradual upward change is predicted, and in 2049 the rate will be 1.39(see Table 7, Figure 7).

(2) Assumption for the High Variant

- (i) The mean age of marriage for cohort has advanced from 24.4 years for the cohort born in 1950 to 27.3 years for the cohort born in 1985; this tendency will not change for cohorts born 2000 and after.
- (ii) The proportion never married has advanced from 4.9% for the cohort born in 1950 to 13.3% for the cohort born in 1985; it will not change for cohorts born in 2000 and after.
- (iii) The completed number of births from married persons is affected by later marriage and later childbearing; it has advanced from 2.14 for the cohort born between 1948 and 1952 to 1.93 for the cohort born in 1985; it will not change for cohorts born in 2000 and after.
- (iv) The distribution of completed fertility among females appears as follows, and remains consistent for cohorts born in 2000 and after.

| Birth cohort | Completed cohort fertility | Distribution of live births (%) | | | | |
|--------------|----------------------------|---------------------------------|------|------|------|-----------|
| | | None | 1 | 2 | 3 | 4 or more |
| 1985 | 1.62 | 21.1 | 20.1 | 38.6 | 15.5 | 4.7 |

In this case, the total fertility rate will turn upward immediately from 1.36 in 2000, reaching 1.63 in 2049 (see Table 7, Figure 7).

(3) Assumption for the Low Variant

- (i) The mean age of marriage for cohort has advanced from 24.4 years for the cohort born in 1950 to 28.7 years for the cohort born in 1985; this tendency will not change for cohorts born in 2000 and after.
- (ii) The proportion never married has advanced from 4.9% for the cohort born in 1950 to 22.6% for the cohort born in 1985; it will not change for cohorts born in 2000 and after.
- (iii) The completed number of births from married persons is affected by later marriage, later childbearing, and changes in reproductive behaviors of couples; it has advanced from 2.14 for the cohort born between 1948 and 1952 to 1.49 for the cohort born in 1985; it will not change for cohorts born in 2000 and after.
- (iv) The distribution of completed fertility among female appears as follows, and remains consistent for cohorts born in 2000 and after.

| Birth cohort | Completed cohort fertility | Distribution of live births (%) | | | | |
|--------------|----------------------------|---------------------------------|------|------|-----|-----------|
| | | None | 1 | 2 | 3 | 4 or more |
| 1985 | 1.12 | 42.0 | 17.5 | 29.1 | 9.3 | 2.1 |

In this case, the total fertility rate continues to decline from 1.36 in 2000, reaching 1.10 in 2049 (see Table 7, Figure 7).

6. Assumption of Sex Ratio at Births

As for the sex ratio at births which divide the future number of newborns into male and female, the female to male ratio is set to 100:105.5 based on the results of the last five years, and remains consistent from 2001 onward (see Table 8, Figure 8).

7. Assumption of International Migration

International migration varies according to advances in internationalization and economic activities of Japan. Additionally, it is affected by the policy concerning international migration and the economic and social conditions of other countries.

For the past projections of international migration, it was assumed that the age-specific net (entries minus exits) international migration rate by sex was constant. However, the international migration trend differs for Japanese and non-Japanese population. Additionally, migration, especially non-Japanese migration, does not depend on the population size and the structure of Japanese population. This projection has different international migration figures for Japanese and non-Japanese population. That is, two assumptions are made: the age-specific net international migration rate for Japanese population and the amount of net (entries minus exits) international migrants for non-Japanese population.

Because international migration for Japanese population is relatively stable, the assumptions are made as follows: first, obtain the average value of the annual net international migration rate between 1995 and 2000, and adjust the rate to remove the blurring which occurs due to random fluctuation as constant for 2001 onward. Because the parent population of migration is Japanese, projection of the Japanese-only population is required. This population is calculated by multiplying the projected age- and sex-specific population and the proportion of Japanese population (obtained from the Population Census of Japan in 2000 and the number of births in the Vital Statistics).

As for international migration of non-Japanese population, net-migration is more or less in excess and tends to be increasing, so a regression line is applied per sex for results from 1970 and after. However, for the years around 1990 when drastic fluctuations occurred, the years except 1988 to 1995 when the divergence from the overall tendency is apparent are used and extrapolated using logistic curves, thereby obtaining the excess net-migrations per sex of non-Japanese population in the future. The age distribution of net-migrants is fixed as the average value between 1995 and 2000 (see Figure 9 to Figure 11).

Figure 1 Actual and projected population of Japan, 1950-2050

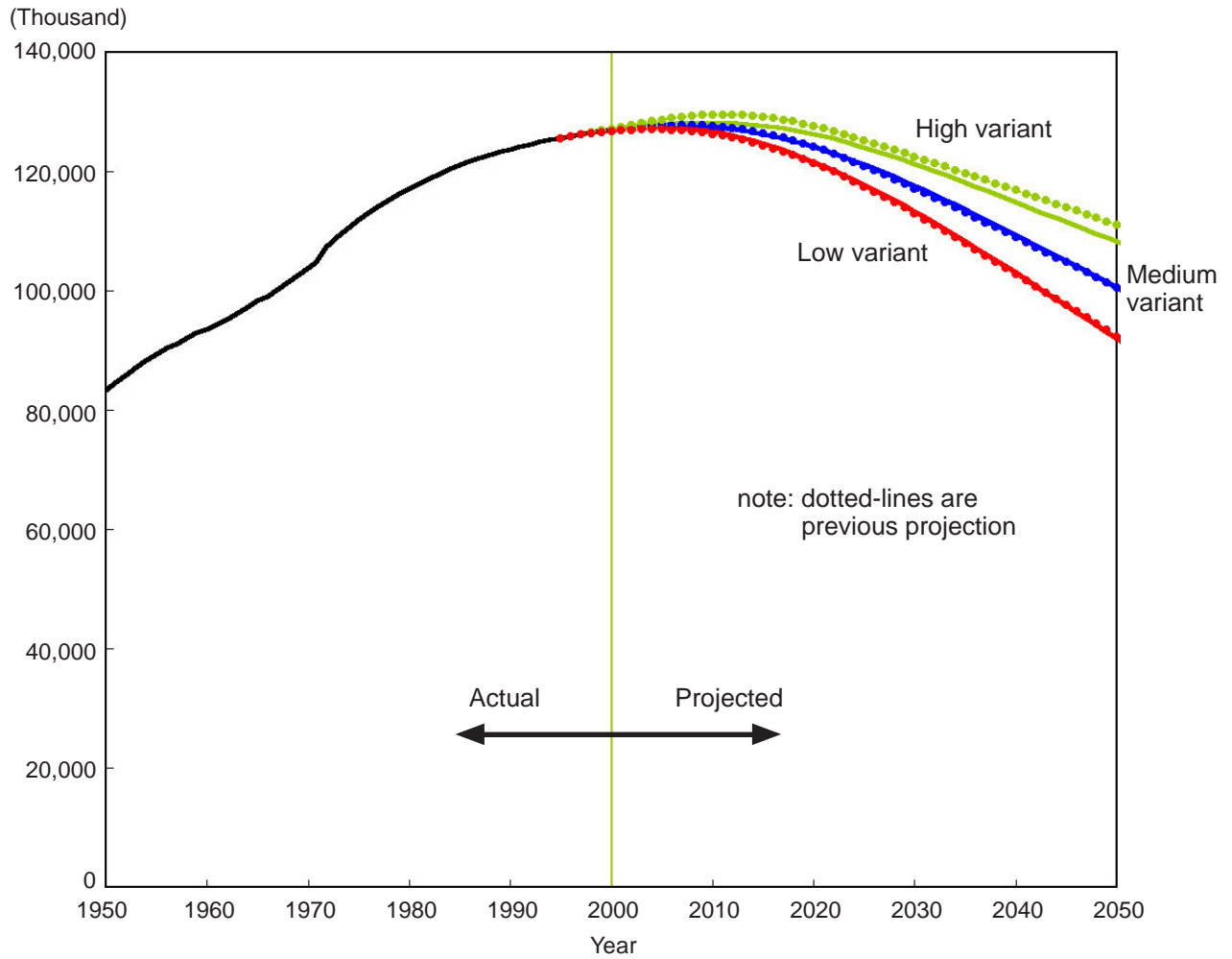


Figure 2 Trends in the percentage of the aged population, 1950-2050

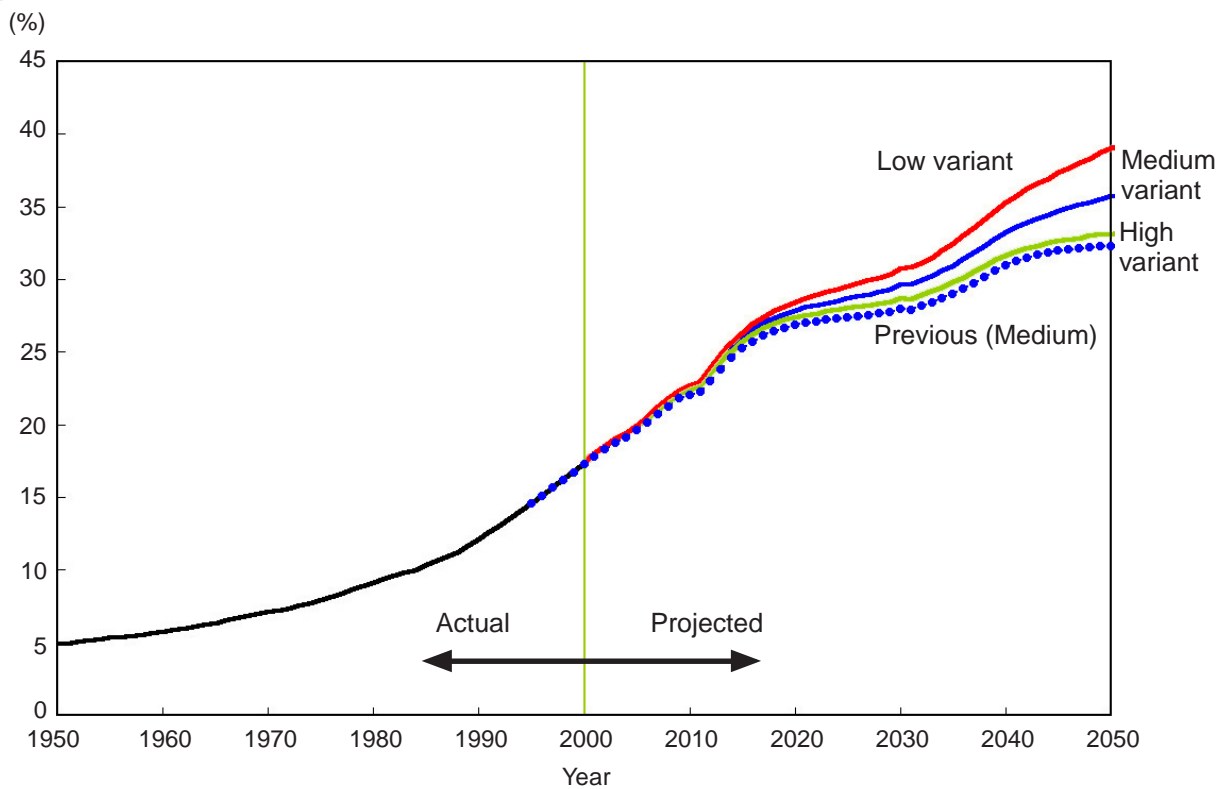


Figure 3 Trends in the number of the major age composition, 1950-2050: Medium Variant

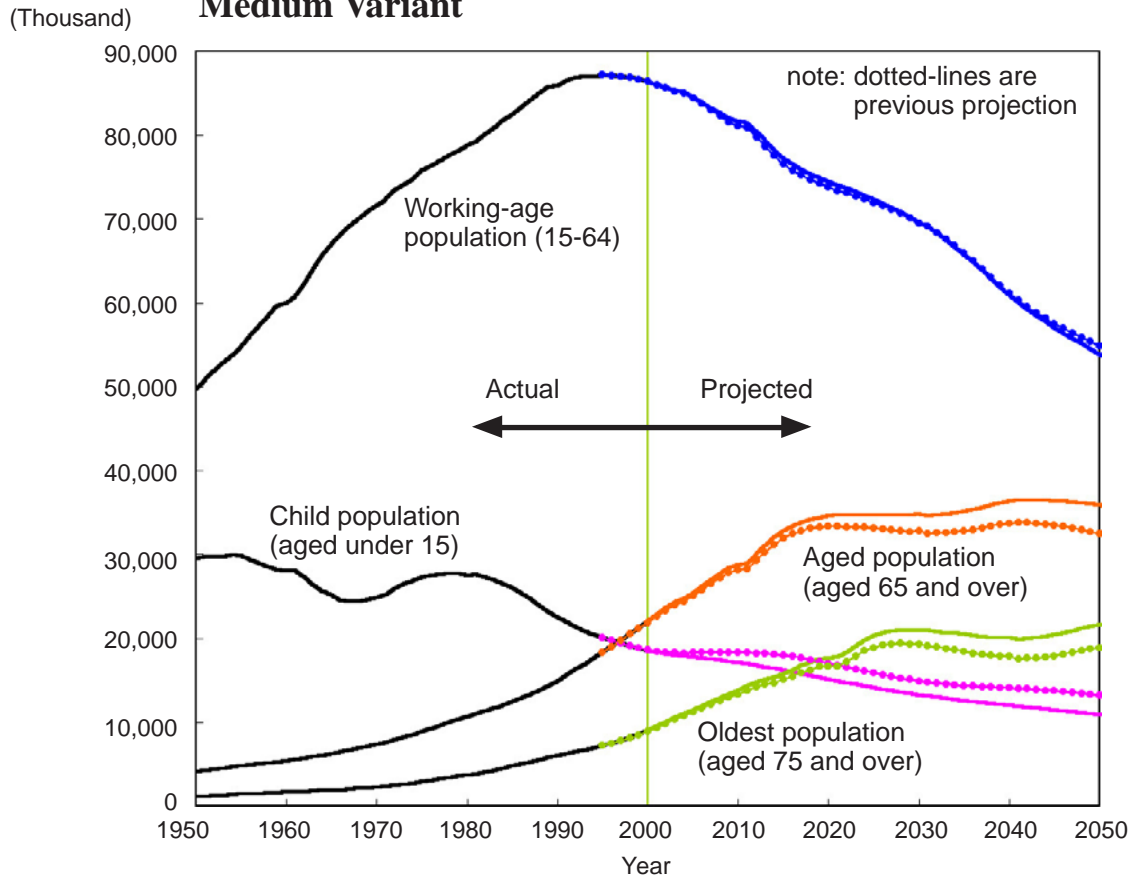


Figure 4 Trends in the percentage of the major age composition of the total population, 1950-2050: Medium variant

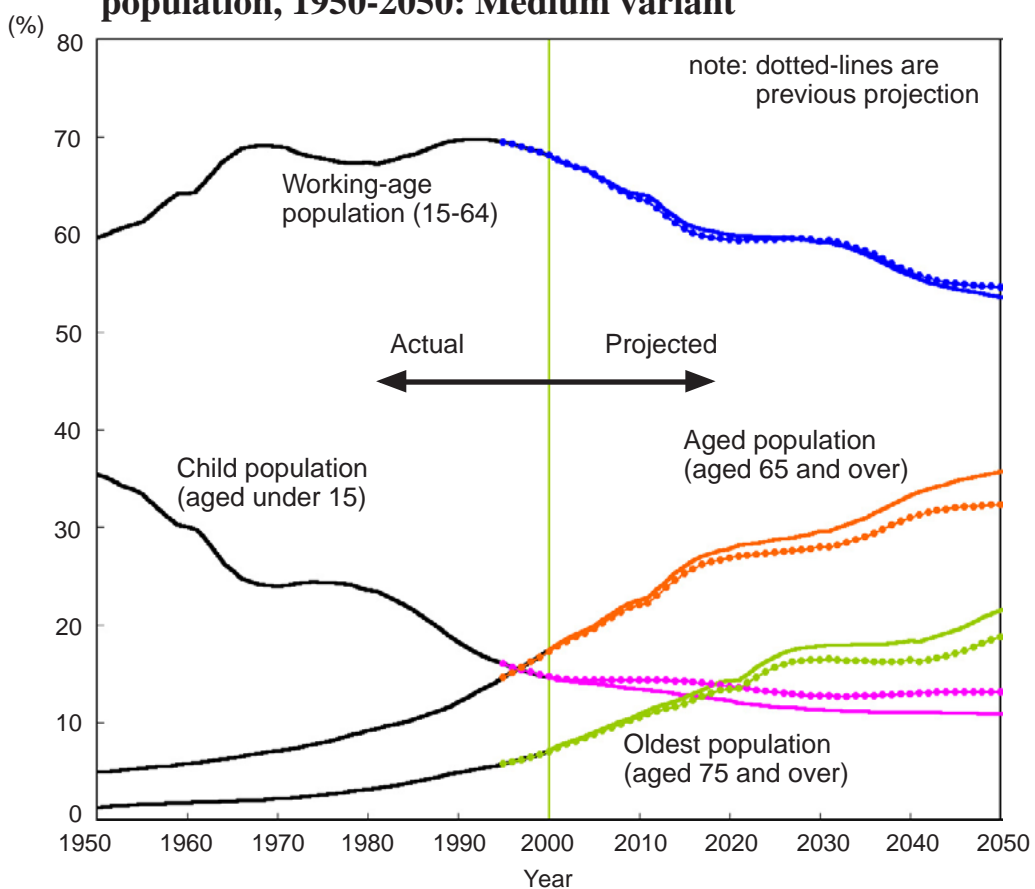
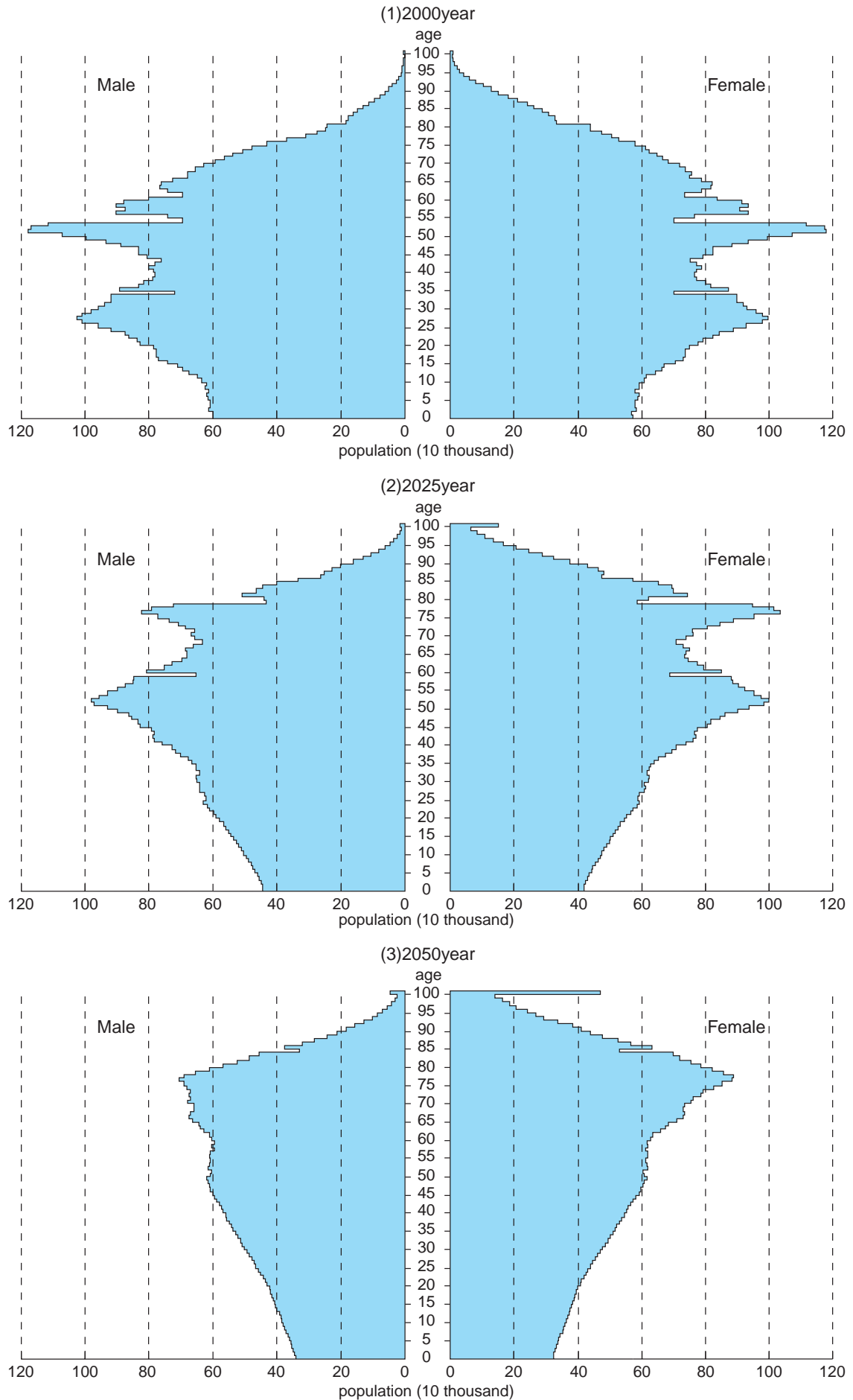


Figure 5 Population pyramid: Medium variant



**Table 1 Projected future population and proportion by age group, 2000-2050:
Medium variant**

| Year | Population(thousand) | | | | Proportion(%) | | |
|------|----------------------|--------|--------|--------|---------------|-------|------|
| | Total | 0-14 | 15-64 | 65+ | 0-14 | 15-64 | 65+ |
| 2000 | 126,926 | 18,505 | 86,380 | 22,041 | 14.6 | 68.1 | 17.4 |
| 2001 | 127,183 | 18,307 | 86,033 | 22,843 | 14.4 | 67.6 | 18.0 |
| 2002 | 127,377 | 18,123 | 85,673 | 23,581 | 14.2 | 67.3 | 18.5 |
| 2003 | 127,524 | 17,964 | 85,341 | 24,219 | 14.1 | 66.9 | 19.0 |
| 2004 | 127,635 | 17,842 | 85,071 | 24,722 | 14.0 | 66.7 | 19.4 |
| 2005 | 127,708 | 17,727 | 84,590 | 25,392 | 13.9 | 66.2 | 19.9 |
| 2006 | 127,741 | 17,623 | 83,946 | 26,172 | 13.8 | 65.7 | 20.5 |
| 2007 | 127,733 | 17,501 | 83,272 | 26,959 | 13.7 | 65.2 | 21.1 |
| 2008 | 127,686 | 17,385 | 82,643 | 27,658 | 13.6 | 64.7 | 21.7 |
| 2009 | 127,599 | 17,235 | 81,994 | 28,370 | 13.5 | 64.3 | 22.2 |
| 2010 | 127,473 | 17,074 | 81,665 | 28,735 | 13.4 | 64.1 | 22.5 |
| 2011 | 127,309 | 16,919 | 81,422 | 28,968 | 13.3 | 64.0 | 22.8 |
| 2012 | 127,107 | 16,746 | 80,418 | 29,942 | 13.2 | 63.3 | 23.6 |
| 2013 | 126,865 | 16,558 | 79,326 | 30,981 | 13.1 | 62.5 | 24.4 |
| 2014 | 126,585 | 16,385 | 78,207 | 31,992 | 12.9 | 61.8 | 25.3 |
| 2015 | 126,266 | 16,197 | 77,296 | 32,772 | 12.8 | 61.2 | 26.0 |
| 2016 | 125,909 | 15,980 | 76,556 | 33,372 | 12.7 | 60.8 | 26.5 |
| 2017 | 125,513 | 15,759 | 75,921 | 33,832 | 12.6 | 60.5 | 27.0 |
| 2018 | 125,080 | 15,536 | 75,374 | 34,170 | 12.4 | 60.3 | 27.3 |
| 2019 | 124,611 | 15,314 | 74,918 | 34,379 | 12.3 | 60.1 | 27.6 |
| 2020 | 124,107 | 15,095 | 74,453 | 34,559 | 12.2 | 60.0 | 27.8 |
| 2021 | 123,570 | 14,881 | 74,026 | 34,663 | 12.0 | 59.9 | 28.1 |
| 2022 | 123,002 | 14,673 | 73,658 | 34,671 | 11.9 | 59.9 | 28.2 |
| 2023 | 122,406 | 14,471 | 73,242 | 34,694 | 11.8 | 59.8 | 28.3 |
| 2024 | 121,784 | 14,275 | 72,775 | 34,734 | 11.7 | 59.8 | 28.5 |
| 2025 | 121,136 | 14,085 | 72,325 | 34,726 | 11.6 | 59.7 | 28.7 |
| 2026 | 120,466 | 13,901 | 71,877 | 34,688 | 11.5 | 59.7 | 28.8 |
| 2027 | 119,773 | 13,724 | 71,397 | 34,652 | 11.5 | 59.6 | 28.9 |
| 2028 | 119,061 | 13,553 | 70,858 | 34,650 | 11.4 | 59.5 | 29.1 |
| 2029 | 118,329 | 13,389 | 70,275 | 34,665 | 11.3 | 59.4 | 29.3 |
| 2030 | 117,580 | 13,233 | 69,576 | 34,770 | 11.3 | 59.2 | 29.6 |
| 2031 | 116,813 | 13,085 | 69,174 | 34,554 | 11.2 | 59.2 | 29.6 |
| 2032 | 116,032 | 12,944 | 68,398 | 34,689 | 11.2 | 58.9 | 29.9 |
| 2033 | 115,235 | 12,812 | 67,608 | 34,815 | 11.1 | 58.7 | 30.2 |
| 2034 | 114,425 | 12,686 | 66,771 | 34,968 | 11.1 | 58.4 | 30.6 |
| 2035 | 113,602 | 12,567 | 65,891 | 35,145 | 11.1 | 58.0 | 30.9 |
| 2036 | 112,768 | 12,453 | 64,953 | 35,362 | 11.0 | 57.6 | 31.4 |
| 2037 | 111,923 | 12,341 | 63,962 | 35,619 | 11.0 | 57.1 | 31.8 |
| 2038 | 111,068 | 12,233 | 62,928 | 35,908 | 11.0 | 56.7 | 32.3 |
| 2039 | 110,207 | 12,125 | 61,919 | 36,163 | 11.0 | 56.2 | 32.8 |
| 2040 | 109,338 | 12,017 | 60,990 | 36,332 | 11.0 | 55.8 | 33.2 |
| 2041 | 108,465 | 11,908 | 60,126 | 36,432 | 11.0 | 55.4 | 33.6 |
| 2042 | 107,589 | 11,798 | 59,329 | 36,462 | 11.0 | 55.1 | 33.9 |
| 2043 | 106,712 | 11,686 | 58,555 | 36,471 | 11.0 | 54.9 | 34.2 |
| 2044 | 105,835 | 11,572 | 57,824 | 36,439 | 10.9 | 54.6 | 34.4 |
| 2045 | 104,960 | 11,455 | 57,108 | 36,396 | 10.9 | 54.4 | 34.7 |
| 2046 | 104,087 | 11,336 | 56,449 | 36,302 | 10.9 | 54.2 | 34.9 |
| 2047 | 103,213 | 11,215 | 55,800 | 36,198 | 10.9 | 54.1 | 35.1 |
| 2048 | 102,339 | 11,092 | 55,146 | 36,102 | 10.8 | 53.9 | 35.3 |
| 2049 | 101,466 | 10,967 | 54,498 | 36,001 | 10.8 | 53.7 | 35.5 |
| 2050 | 100,593 | 10,842 | 53,889 | 35,863 | 10.8 | 53.6 | 35.7 |

**Table 2 Projected future population and proportion by age group, 2000-2050:
High variant**

| Year | Population(thousand) | | | | Proportion(%) | | |
|------|----------------------|--------|--------|--------|---------------|-------|------|
| | Total | 0-14 | 15-64 | 65+ | 0-14 | 15-64 | 65+ |
| 2000 | 126,926 | 18,505 | 86,380 | 22,041 | 14.6 | 68.1 | 17.4 |
| 2001 | 127,198 | 18,322 | 86,033 | 22,843 | 14.4 | 67.6 | 18.0 |
| 2002 | 127,419 | 18,165 | 85,673 | 23,581 | 14.3 | 67.2 | 18.5 |
| 2003 | 127,603 | 18,043 | 85,341 | 24,219 | 14.1 | 66.9 | 19.0 |
| 2004 | 127,762 | 17,969 | 85,071 | 24,722 | 14.1 | 66.6 | 19.4 |
| 2005 | 127,894 | 17,913 | 84,590 | 25,392 | 14.0 | 66.1 | 19.9 |
| 2006 | 128,000 | 17,882 | 83,946 | 26,172 | 14.0 | 65.6 | 20.4 |
| 2007 | 128,078 | 17,846 | 83,272 | 26,959 | 13.9 | 65.0 | 21.0 |
| 2008 | 128,128 | 17,828 | 82,643 | 27,658 | 13.9 | 64.5 | 21.6 |
| 2009 | 128,151 | 17,787 | 81,994 | 28,370 | 13.9 | 64.0 | 22.1 |
| 2010 | 128,145 | 17,746 | 81,665 | 28,735 | 13.8 | 63.7 | 22.4 |
| 2011 | 128,110 | 17,720 | 81,422 | 28,968 | 13.8 | 63.6 | 22.6 |
| 2012 | 128,043 | 17,683 | 80,418 | 29,942 | 13.8 | 62.8 | 23.4 |
| 2013 | 127,943 | 17,636 | 79,326 | 30,981 | 13.8 | 62.0 | 24.2 |
| 2014 | 127,809 | 17,609 | 78,207 | 31,992 | 13.8 | 61.2 | 25.0 |
| 2015 | 127,640 | 17,571 | 77,296 | 32,772 | 13.8 | 60.6 | 25.7 |
| 2016 | 127,435 | 17,491 | 76,571 | 33,372 | 13.7 | 60.1 | 26.2 |
| 2017 | 127,193 | 17,398 | 75,963 | 33,832 | 13.7 | 59.7 | 26.6 |
| 2018 | 126,914 | 17,293 | 75,452 | 34,170 | 13.6 | 59.5 | 26.9 |
| 2019 | 126,600 | 17,178 | 75,043 | 34,379 | 13.6 | 59.3 | 27.2 |
| 2020 | 126,250 | 17,053 | 74,638 | 34,559 | 13.5 | 59.1 | 27.4 |
| 2021 | 125,867 | 16,921 | 74,284 | 34,663 | 13.4 | 59.0 | 27.5 |
| 2022 | 125,453 | 16,781 | 74,001 | 34,671 | 13.4 | 59.0 | 27.6 |
| 2023 | 125,010 | 16,634 | 73,682 | 34,694 | 13.3 | 58.9 | 27.8 |
| 2024 | 124,539 | 16,481 | 73,325 | 34,734 | 13.2 | 58.9 | 27.9 |
| 2025 | 124,044 | 16,325 | 72,993 | 34,726 | 13.2 | 58.8 | 28.0 |
| 2026 | 123,526 | 16,166 | 72,673 | 34,688 | 13.1 | 58.8 | 28.1 |
| 2027 | 122,987 | 16,006 | 72,328 | 34,652 | 13.0 | 58.8 | 28.2 |
| 2028 | 122,428 | 15,849 | 71,929 | 34,650 | 12.9 | 58.8 | 28.3 |
| 2029 | 121,853 | 15,696 | 71,491 | 34,665 | 12.9 | 58.7 | 28.4 |
| 2030 | 121,262 | 15,550 | 70,941 | 34,770 | 12.8 | 58.5 | 28.7 |
| 2031 | 120,657 | 15,412 | 70,691 | 34,554 | 12.8 | 58.6 | 28.6 |
| 2032 | 120,039 | 15,284 | 70,067 | 34,689 | 12.7 | 58.4 | 28.9 |
| 2033 | 119,411 | 15,167 | 69,429 | 34,815 | 12.7 | 58.1 | 29.2 |
| 2034 | 118,774 | 15,061 | 68,746 | 34,968 | 12.7 | 57.9 | 29.4 |
| 2035 | 118,129 | 14,966 | 68,018 | 35,145 | 12.7 | 57.6 | 29.8 |
| 2036 | 117,477 | 14,882 | 67,233 | 35,362 | 12.7 | 57.2 | 30.1 |
| 2037 | 116,819 | 14,806 | 66,394 | 35,619 | 12.7 | 56.8 | 30.5 |
| 2038 | 116,156 | 14,738 | 65,511 | 35,908 | 12.7 | 56.4 | 30.9 |
| 2039 | 115,491 | 14,676 | 64,652 | 36,163 | 12.7 | 56.0 | 31.3 |
| 2040 | 114,824 | 14,619 | 63,874 | 36,332 | 12.7 | 55.6 | 31.6 |
| 2041 | 114,157 | 14,565 | 63,160 | 36,432 | 12.8 | 55.3 | 31.9 |
| 2042 | 113,490 | 14,512 | 62,515 | 36,462 | 12.8 | 55.1 | 32.1 |
| 2043 | 112,825 | 14,460 | 61,894 | 36,471 | 12.8 | 54.9 | 32.3 |
| 2044 | 112,163 | 14,407 | 61,317 | 36,439 | 12.8 | 54.7 | 32.5 |
| 2045 | 111,506 | 14,351 | 60,758 | 36,396 | 12.9 | 54.5 | 32.6 |
| 2046 | 110,852 | 14,291 | 60,258 | 36,302 | 12.9 | 54.4 | 32.7 |
| 2047 | 110,198 | 14,228 | 59,773 | 36,198 | 12.9 | 54.2 | 32.8 |
| 2048 | 109,546 | 14,159 | 59,285 | 36,102 | 12.9 | 54.1 | 33.0 |
| 2049 | 108,895 | 14,086 | 58,809 | 36,001 | 12.9 | 54.0 | 33.1 |
| 2050 | 108,246 | 14,008 | 58,375 | 35,863 | 12.9 | 53.9 | 33.1 |

**Table 3 Projected future population and proportion by age group, 2000-2050:
Low variant**

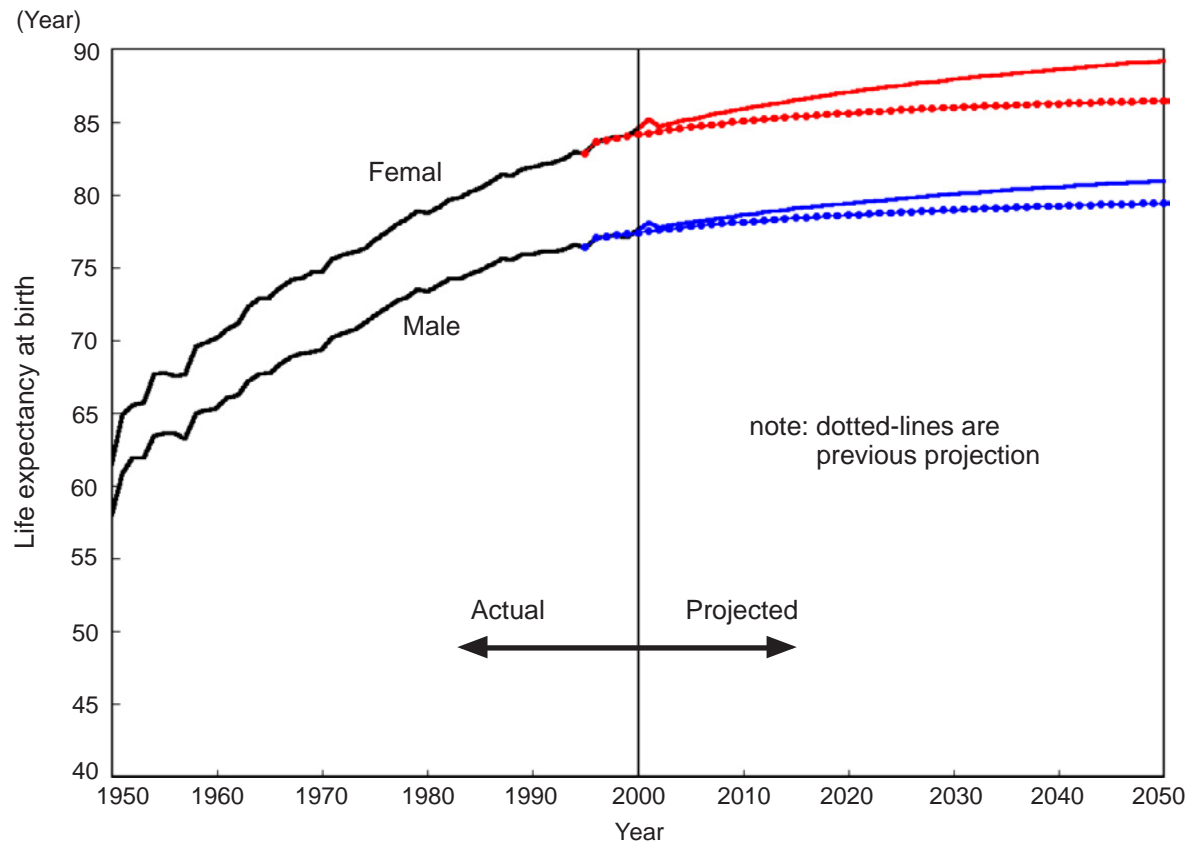
| Year | Population(thousand) | | | | Proportion(%) | | |
|------|----------------------|--------|--------|--------|---------------|-------|------|
| | Total | 0-14 | 15-64 | 65+ | 0-14 | 15-64 | 65+ |
| 2000 | 126,926 | 18,505 | 86,380 | 22,041 | 14.6 | 68.1 | 17.4 |
| 2001 | 127,165 | 18,290 | 86,033 | 22,843 | 14.4 | 67.7 | 18.0 |
| 2002 | 127,328 | 18,074 | 85,673 | 23,581 | 14.2 | 67.3 | 18.5 |
| 2003 | 127,431 | 17,871 | 85,341 | 24,219 | 14.0 | 67.0 | 19.0 |
| 2004 | 127,483 | 17,690 | 85,071 | 24,722 | 13.9 | 66.7 | 19.4 |
| 2005 | 127,482 | 17,501 | 84,590 | 25,392 | 13.7 | 66.4 | 19.9 |
| 2006 | 127,426 | 17,308 | 83,946 | 26,172 | 13.6 | 65.9 | 20.5 |
| 2007 | 127,315 | 17,084 | 83,272 | 26,959 | 13.4 | 65.4 | 21.2 |
| 2008 | 127,152 | 16,851 | 82,643 | 27,658 | 13.3 | 65.0 | 21.8 |
| 2009 | 126,937 | 16,573 | 81,994 | 28,370 | 13.1 | 64.6 | 22.3 |
| 2010 | 126,673 | 16,274 | 81,665 | 28,735 | 12.8 | 64.5 | 22.7 |
| 2011 | 126,362 | 15,972 | 81,422 | 28,968 | 12.6 | 64.4 | 22.9 |
| 2012 | 126,004 | 15,644 | 80,418 | 29,942 | 12.4 | 63.8 | 23.8 |
| 2013 | 125,601 | 15,294 | 79,326 | 30,981 | 12.2 | 63.2 | 24.7 |
| 2014 | 125,152 | 14,953 | 78,207 | 31,992 | 11.9 | 62.5 | 25.6 |
| 2015 | 124,661 | 14,593 | 77,296 | 32,772 | 11.7 | 62.0 | 26.3 |
| 2016 | 124,129 | 14,217 | 76,539 | 33,372 | 11.5 | 61.7 | 26.9 |
| 2017 | 123,556 | 13,850 | 75,873 | 33,832 | 11.2 | 61.4 | 27.4 |
| 2018 | 122,944 | 13,493 | 75,281 | 34,170 | 11.0 | 61.2 | 27.8 |
| 2019 | 122,296 | 13,150 | 74,767 | 34,379 | 10.8 | 61.1 | 28.1 |
| 2020 | 121,613 | 12,826 | 74,228 | 34,559 | 10.5 | 61.0 | 28.4 |
| 2021 | 120,898 | 12,522 | 73,713 | 34,663 | 10.4 | 61.0 | 28.7 |
| 2022 | 120,152 | 12,238 | 73,243 | 34,671 | 10.2 | 61.0 | 28.9 |
| 2023 | 119,379 | 11,975 | 72,711 | 34,694 | 10.0 | 60.9 | 29.1 |
| 2024 | 118,580 | 11,729 | 72,117 | 34,734 | 9.9 | 60.8 | 29.3 |
| 2025 | 117,755 | 11,500 | 71,529 | 34,726 | 9.8 | 60.7 | 29.5 |
| 2026 | 116,907 | 11,285 | 70,935 | 34,688 | 9.7 | 60.7 | 29.7 |
| 2027 | 116,037 | 11,083 | 70,301 | 34,652 | 9.6 | 60.6 | 29.9 |
| 2028 | 115,144 | 10,894 | 69,601 | 34,650 | 9.5 | 60.4 | 30.1 |
| 2029 | 114,231 | 10,715 | 68,851 | 34,665 | 9.4 | 60.3 | 30.3 |
| 2030 | 113,297 | 10,546 | 67,981 | 34,770 | 9.3 | 60.0 | 30.7 |
| 2031 | 112,344 | 10,384 | 67,406 | 34,554 | 9.2 | 60.0 | 30.8 |
| 2032 | 111,372 | 10,229 | 66,454 | 34,689 | 9.2 | 59.7 | 31.1 |
| 2033 | 110,381 | 10,079 | 65,487 | 34,815 | 9.1 | 59.3 | 31.5 |
| 2034 | 109,373 | 9,933 | 64,473 | 34,968 | 9.1 | 58.9 | 32.0 |
| 2035 | 108,349 | 9,789 | 63,416 | 35,145 | 9.0 | 58.5 | 32.4 |
| 2036 | 107,309 | 9,645 | 62,302 | 35,362 | 9.0 | 58.1 | 33.0 |
| 2037 | 106,255 | 9,501 | 61,135 | 35,619 | 8.9 | 57.5 | 33.5 |
| 2038 | 105,188 | 9,355 | 59,925 | 35,908 | 8.9 | 57.0 | 34.1 |
| 2039 | 104,112 | 9,207 | 58,741 | 36,163 | 8.8 | 56.4 | 34.7 |
| 2040 | 103,025 | 9,056 | 57,637 | 36,332 | 8.8 | 55.9 | 35.3 |
| 2041 | 101,932 | 8,903 | 56,597 | 36,432 | 8.7 | 55.5 | 35.7 |
| 2042 | 100,833 | 8,747 | 55,624 | 36,462 | 8.7 | 55.2 | 36.2 |
| 2043 | 99,732 | 8,589 | 54,672 | 36,471 | 8.6 | 54.8 | 36.6 |
| 2044 | 98,630 | 8,430 | 53,761 | 36,439 | 8.5 | 54.5 | 36.9 |
| 2045 | 97,529 | 8,269 | 52,863 | 36,396 | 8.5 | 54.2 | 37.3 |
| 2046 | 96,429 | 8,109 | 52,018 | 36,302 | 8.4 | 53.9 | 37.6 |
| 2047 | 95,328 | 7,949 | 51,181 | 36,198 | 8.3 | 53.7 | 38.0 |
| 2048 | 94,228 | 7,792 | 50,335 | 36,102 | 8.3 | 53.4 | 38.3 |
| 2049 | 93,129 | 7,637 | 49,491 | 36,001 | 8.2 | 53.1 | 38.7 |
| 2050 | 92,031 | 7,486 | 48,683 | 35,863 | 8.1 | 52.9 | 39.0 |

**Table 4 Selected age-structure indices of future population, 2000-2050:
Medium variant**

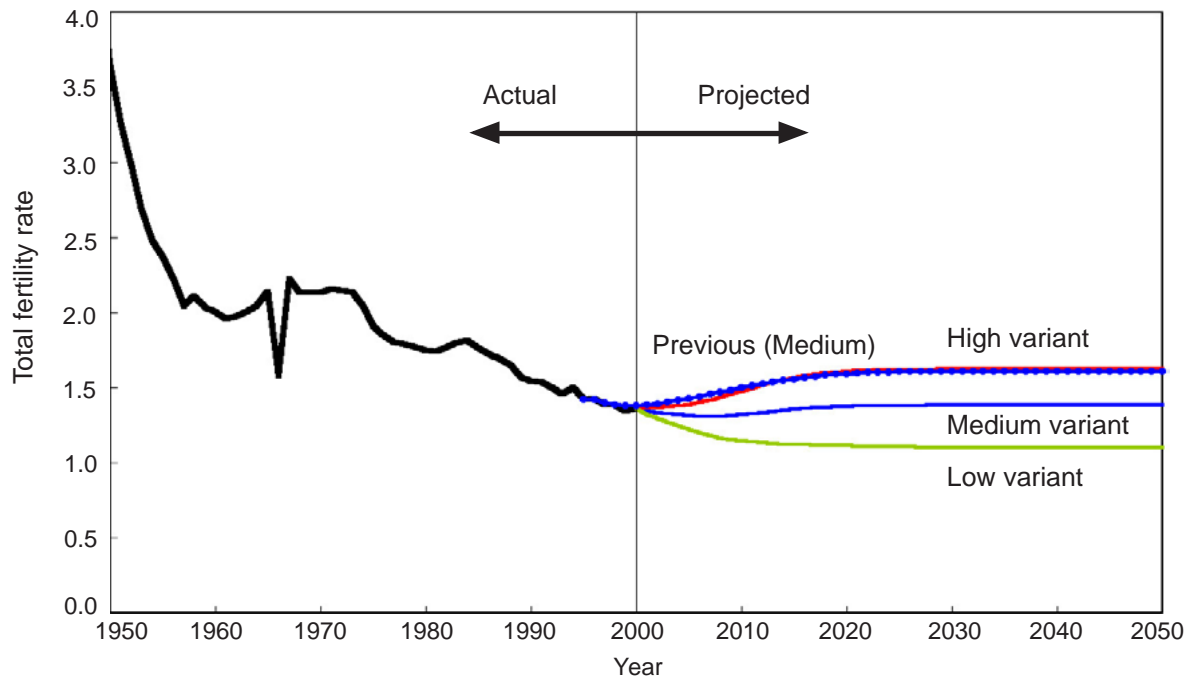
| Year | Mean Age (yr.) | Median Age (yr.) | Defining Productive Age as 15-64 Years Old | | | | Defining Productive Age as 20-69 Years Old | | | |
|------|----------------|------------------|--|----------|---------|---------------------------|--|----------|---------|---------------------------|
| | | | Age Dependency Ratio(%) | | | Elderly-Children Ratio(%) | Age Dependency Ratio(%) | | | Elderly-Children Ratio(%) |
| | | | Total | Children | Old-age | | Total | Children | Old-age | |
| 2000 | 41.4 | 41.5 | 46.9 | 21.4 | 25.5 | 119.1 | 47.6 | 30.2 | 17.4 | 57.4 |
| 2001 | 41.8 | 41.8 | 47.8 | 21.3 | 26.6 | 124.8 | 48.0 | 29.9 | 18.1 | 60.7 |
| 2002 | 42.1 | 42.1 | 48.7 | 21.2 | 27.5 | 130.1 | 48.4 | 29.5 | 18.9 | 64.0 |
| 2003 | 42.5 | 42.4 | 49.4 | 21.0 | 28.4 | 134.8 | 48.8 | 29.1 | 19.6 | 67.4 |
| 2004 | 42.8 | 42.6 | 50.0 | 21.0 | 29.1 | 138.6 | 49.1 | 28.8 | 20.3 | 70.7 |
| 2005 | 43.1 | 42.9 | 51.0 | 21.0 | 30.0 | 143.2 | 49.6 | 28.5 | 21.1 | 74.1 |
| 2006 | 43.4 | 43.2 | 52.2 | 21.0 | 31.2 | 148.5 | 50.2 | 28.3 | 21.9 | 77.6 |
| 2007 | 43.7 | 43.5 | 53.4 | 21.0 | 32.4 | 154.0 | 50.8 | 28.1 | 22.7 | 80.9 |
| 2008 | 44.0 | 43.8 | 54.5 | 21.0 | 33.5 | 159.1 | 51.3 | 27.9 | 23.4 | 83.9 |
| 2009 | 44.3 | 44.2 | 55.6 | 21.0 | 34.6 | 164.6 | 51.6 | 27.7 | 23.9 | 86.2 |
| 2010 | 44.6 | 44.4 | 56.1 | 20.9 | 35.2 | 168.3 | 52.3 | 27.6 | 24.7 | 89.3 |
| 2011 | 44.9 | 44.7 | 56.4 | 20.8 | 35.6 | 171.2 | 53.2 | 27.6 | 25.6 | 92.7 |
| 2012 | 45.2 | 45.0 | 58.1 | 20.8 | 37.2 | 178.8 | 54.2 | 27.6 | 26.6 | 96.3 |
| 2013 | 45.5 | 45.4 | 59.9 | 20.9 | 39.1 | 187.1 | 55.1 | 27.6 | 27.5 | 99.6 |
| 2014 | 45.7 | 45.7 | 61.9 | 21.0 | 40.9 | 195.3 | 55.9 | 27.5 | 28.4 | 103.1 |
| 2015 | 46.0 | 46.1 | 63.4 | 21.0 | 42.4 | 202.3 | 56.1 | 27.4 | 28.8 | 105.2 |
| 2016 | 46.2 | 46.5 | 64.5 | 20.9 | 43.6 | 208.8 | 56.2 | 27.2 | 29.0 | 106.8 |
| 2017 | 46.5 | 46.8 | 65.3 | 20.8 | 44.6 | 214.7 | 57.6 | 27.2 | 30.4 | 111.7 |
| 2018 | 46.7 | 47.2 | 65.9 | 20.6 | 45.3 | 219.9 | 59.1 | 27.2 | 31.9 | 117.2 |
| 2019 | 47.0 | 47.6 | 66.3 | 20.4 | 45.9 | 224.5 | 60.7 | 27.3 | 33.5 | 122.5 |
| 2020 | 47.2 | 48.0 | 66.7 | 20.3 | 46.4 | 228.9 | 61.9 | 27.3 | 34.7 | 127.1 |
| 2021 | 47.4 | 48.4 | 66.9 | 20.1 | 46.8 | 232.9 | 62.8 | 27.2 | 35.6 | 131.1 |
| 2022 | 47.7 | 48.7 | 67.0 | 19.9 | 47.1 | 236.3 | 63.3 | 27.0 | 36.3 | 134.6 |
| 2023 | 47.9 | 49.1 | 67.1 | 19.8 | 47.4 | 239.8 | 63.7 | 26.8 | 36.9 | 137.6 |
| 2024 | 48.1 | 49.5 | 67.3 | 19.6 | 47.7 | 243.3 | 63.8 | 26.6 | 37.2 | 140.0 |
| 2025 | 48.3 | 49.8 | 67.5 | 19.5 | 48.0 | 246.5 | 64.0 | 26.4 | 37.6 | 142.4 |
| 2026 | 48.5 | 50.1 | 67.6 | 19.3 | 48.3 | 249.5 | 64.0 | 26.2 | 37.8 | 144.3 |
| 2027 | 48.7 | 50.4 | 67.8 | 19.2 | 48.5 | 252.5 | 63.9 | 26.0 | 37.9 | 145.9 |
| 2028 | 48.8 | 50.7 | 68.0 | 19.1 | 48.9 | 255.7 | 63.8 | 25.8 | 38.0 | 147.4 |
| 2029 | 49.0 | 50.9 | 68.4 | 19.1 | 49.3 | 258.9 | 63.9 | 25.6 | 38.2 | 149.1 |
| 2030 | 49.2 | 51.2 | 69.0 | 19.0 | 50.0 | 262.7 | 63.8 | 25.5 | 38.4 | 150.5 |
| 2031 | 49.3 | 51.4 | 68.9 | 18.9 | 50.0 | 264.1 | 63.8 | 25.3 | 38.4 | 151.7 |
| 2032 | 49.5 | 51.6 | 69.6 | 18.9 | 50.7 | 268.0 | 63.8 | 25.2 | 38.6 | 153.0 |
| 2033 | 49.6 | 51.8 | 70.4 | 19.0 | 51.5 | 271.7 | 63.9 | 25.1 | 38.8 | 154.4 |
| 2034 | 49.7 | 52.0 | 71.4 | 19.0 | 52.4 | 275.6 | 64.1 | 25.0 | 39.1 | 155.9 |
| 2035 | 49.9 | 52.2 | 72.4 | 19.1 | 53.3 | 279.7 | 64.5 | 25.0 | 39.5 | 157.9 |
| 2036 | 50.0 | 52.3 | 73.6 | 19.2 | 54.4 | 284.0 | 64.3 | 24.9 | 39.4 | 158.2 |
| 2037 | 50.1 | 52.5 | 75.0 | 19.3 | 55.7 | 288.6 | 64.9 | 24.9 | 40.0 | 160.4 |
| 2038 | 50.2 | 52.6 | 76.5 | 19.4 | 57.1 | 293.5 | 65.6 | 25.0 | 40.6 | 162.6 |
| 2039 | 50.3 | 52.8 | 78.0 | 19.6 | 58.4 | 298.3 | 66.3 | 25.0 | 41.3 | 165.0 |
| 2040 | 50.4 | 52.9 | 79.3 | 19.7 | 59.6 | 302.3 | 67.2 | 25.1 | 42.1 | 167.5 |
| 2041 | 50.5 | 52.9 | 80.4 | 19.8 | 60.6 | 305.9 | 68.2 | 25.2 | 43.0 | 170.4 |
| 2042 | 50.6 | 53.0 | 81.3 | 19.9 | 61.5 | 309.1 | 69.4 | 25.4 | 44.0 | 173.5 |
| 2043 | 50.7 | 53.1 | 82.2 | 20.0 | 62.3 | 312.1 | 70.7 | 25.5 | 45.2 | 177.0 |
| 2044 | 50.8 | 53.1 | 83.0 | 20.0 | 63.0 | 314.9 | 72.1 | 25.7 | 46.3 | 180.3 |
| 2045 | 50.9 | 53.1 | 83.8 | 20.1 | 63.7 | 317.7 | 73.2 | 25.8 | 47.3 | 183.2 |
| 2046 | 51.0 | 53.2 | 84.4 | 20.1 | 64.3 | 320.2 | 74.2 | 26.0 | 48.2 | 185.8 |
| 2047 | 51.1 | 53.2 | 85.0 | 20.1 | 64.9 | 322.8 | 75.0 | 26.0 | 49.0 | 188.1 |
| 2048 | 51.1 | 53.3 | 85.6 | 20.1 | 65.5 | 325.5 | 75.8 | 26.1 | 49.7 | 190.2 |
| 2049 | 51.2 | 53.4 | 86.2 | 20.1 | 66.1 | 328.3 | 76.5 | 26.2 | 50.3 | 192.2 |
| 2050 | 51.3 | 53.4 | 86.7 | 20.1 | 66.5 | 330.8 | 77.1 | 26.2 | 50.9 | 194.2 |

**Table 5 Trends in live births, deaths, and natural increase, 2001-2050:
Medium variant**

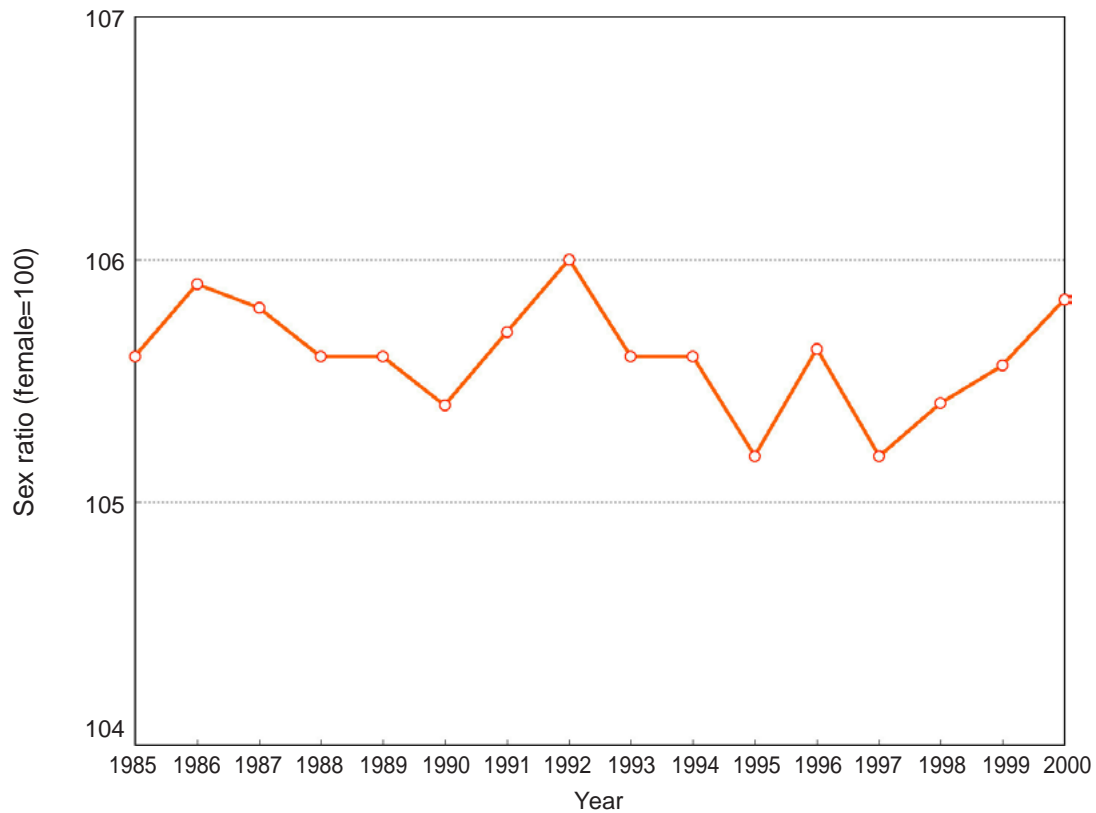
| Year | Crude number(thousand) | | | Crude rates(‰) | | |
|------|------------------------|-------|------------------|----------------|-------|------------------|
| | Birth | Death | Natural increase | Birth | Death | Natural increase |
| 2001 | 1,194 | 982 | 212 | 9.4 | 7.7 | 1.7 |
| 2002 | 1,183 | 1,033 | 150 | 9.3 | 8.1 | 1.2 |
| 2003 | 1,170 | 1,067 | 102 | 9.2 | 8.4 | 0.8 |
| 2004 | 1,154 | 1,092 | 62 | 9.0 | 8.6 | 0.5 |
| 2005 | 1,137 | 1,117 | 20 | 8.9 | 8.7 | 0.2 |
| 2006 | 1,119 | 1,142 | -23 | 8.8 | 8.9 | -0.2 |
| 2007 | 1,102 | 1,167 | -66 | 8.6 | 9.1 | -0.5 |
| 2008 | 1,085 | 1,193 | -108 | 8.5 | 9.4 | -0.8 |
| 2009 | 1,069 | 1,219 | -150 | 8.4 | 9.6 | -1.2 |
| 2010 | 1,055 | 1,245 | -191 | 8.3 | 9.8 | -1.5 |
| 2011 | 1,041 | 1,272 | -231 | 8.2 | 10.0 | -1.8 |
| 2012 | 1,027 | 1,298 | -271 | 8.1 | 10.2 | -2.1 |
| 2013 | 1,013 | 1,325 | -312 | 8.0 | 10.5 | -2.5 |
| 2014 | 999 | 1,351 | -352 | 7.9 | 10.7 | -2.8 |
| 2015 | 985 | 1,376 | -392 | 7.8 | 10.9 | -3.1 |
| 2016 | 971 | 1,401 | -431 | 7.7 | 11.2 | -3.4 |
| 2017 | 956 | 1,426 | -470 | 7.6 | 11.4 | -3.8 |
| 2018 | 941 | 1,449 | -508 | 7.6 | 11.6 | -4.1 |
| 2019 | 928 | 1,472 | -544 | 7.5 | 11.9 | -4.4 |
| 2020 | 914 | 1,493 | -579 | 7.4 | 12.1 | -4.7 |
| 2021 | 902 | 1,514 | -612 | 7.3 | 12.3 | -5.0 |
| 2022 | 891 | 1,533 | -643 | 7.3 | 12.5 | -5.3 |
| 2023 | 880 | 1,552 | -671 | 7.2 | 12.7 | -5.5 |
| 2024 | 871 | 1,569 | -698 | 7.2 | 13.0 | -5.8 |
| 2025 | 863 | 1,585 | -723 | 7.2 | 13.2 | -6.0 |
| 2026 | 855 | 1,601 | -746 | 7.1 | 13.4 | -6.2 |
| 2027 | 847 | 1,615 | -768 | 7.1 | 13.6 | -6.4 |
| 2028 | 840 | 1,628 | -788 | 7.1 | 13.8 | -6.7 |
| 2029 | 834 | 1,641 | -807 | 7.1 | 14.0 | -6.9 |
| 2030 | 828 | 1,652 | -825 | 7.1 | 14.1 | -7.1 |
| 2031 | 821 | 1,663 | -842 | 7.1 | 14.3 | -7.3 |
| 2032 | 815 | 1,672 | -857 | 7.1 | 14.5 | -7.4 |
| 2033 | 808 | 1,680 | -872 | 7.1 | 14.7 | -7.6 |
| 2034 | 801 | 1,687 | -886 | 7.1 | 14.8 | -7.8 |
| 2035 | 794 | 1,692 | -899 | 7.0 | 15.0 | -8.0 |
| 2036 | 786 | 1,697 | -910 | 7.0 | 15.2 | -8.1 |
| 2037 | 778 | 1,699 | -921 | 7.0 | 15.3 | -8.3 |
| 2038 | 770 | 1,700 | -930 | 7.0 | 15.4 | -8.4 |
| 2039 | 761 | 1,699 | -938 | 7.0 | 15.5 | -8.6 |
| 2040 | 753 | 1,697 | -944 | 6.9 | 15.6 | -8.7 |
| 2041 | 744 | 1,693 | -949 | 6.9 | 15.7 | -8.8 |
| 2042 | 735 | 1,686 | -951 | 6.9 | 15.8 | -8.9 |
| 2043 | 726 | 1,679 | -952 | 6.9 | 15.9 | -9.0 |
| 2044 | 717 | 1,669 | -952 | 6.8 | 15.9 | -9.1 |
| 2045 | 708 | 1,659 | -951 | 6.8 | 15.9 | -9.1 |
| 2046 | 700 | 1,649 | -950 | 6.8 | 16.0 | -9.2 |
| 2047 | 691 | 1,641 | -950 | 6.8 | 16.0 | -9.3 |
| 2048 | 682 | 1,633 | -950 | 6.7 | 16.1 | -9.4 |
| 2049 | 674 | 1,624 | -950 | 6.7 | 16.1 | -9.4 |
| 2050 | 667 | 1,617 | -950 | 6.7 | 16.2 | -9.5 |

Figure 6 Actual and Projected life expectancy at birth, 1950-2050**Table 6** Actual and projected life expectancy at birth

| (Years) | | | | (Years) | | | |
|---------|-------|--------|------------|---------|-------|--------|------------|
| Year | Male | Female | Difference | Year | Male | Female | Difference |
| 2000 | 77.64 | 84.62 | 6.98 | 2026 | 79.82 | 87.60 | 7.78 |
| 2001 | 78.08 | 85.18 | 7.10 | 2027 | 79.88 | 87.69 | 7.81 |
| 2002 | 77.76 | 84.73 | 6.97 | 2028 | 79.94 | 87.77 | 7.83 |
| 2003 | 77.88 | 84.89 | 7.01 | 2029 | 80.00 | 87.85 | 7.85 |
| 2004 | 77.99 | 85.05 | 7.06 | 2030 | 80.06 | 87.93 | 7.88 |
| 2005 | 78.11 | 85.20 | 7.10 | 2031 | 80.11 | 88.01 | 7.90 |
| 2006 | 78.21 | 85.35 | 7.14 | 2032 | 80.16 | 88.09 | 7.93 |
| 2007 | 78.32 | 85.50 | 7.18 | 2033 | 80.21 | 88.16 | 7.95 |
| 2008 | 78.42 | 85.64 | 7.21 | 2034 | 80.27 | 88.24 | 7.97 |
| 2009 | 78.52 | 85.77 | 7.25 | 2035 | 80.32 | 88.31 | 7.99 |
| 2010 | 78.62 | 85.90 | 7.29 | 2036 | 80.36 | 88.38 | 8.01 |
| 2011 | 78.71 | 86.03 | 7.32 | 2037 | 80.41 | 88.44 | 8.03 |
| 2012 | 78.80 | 86.16 | 7.36 | 2038 | 80.46 | 88.51 | 8.05 |
| 2013 | 78.89 | 86.28 | 7.39 | 2039 | 80.50 | 88.58 | 8.07 |
| 2014 | 78.97 | 86.40 | 7.43 | 2040 | 80.55 | 88.64 | 8.09 |
| 2015 | 79.05 | 86.51 | 7.46 | 2041 | 80.59 | 88.70 | 8.11 |
| 2016 | 79.13 | 86.63 | 7.49 | 2042 | 80.63 | 88.77 | 8.13 |
| 2017 | 79.21 | 86.73 | 7.52 | 2043 | 80.68 | 88.83 | 8.15 |
| 2018 | 79.29 | 86.84 | 7.56 | 2044 | 80.72 | 88.88 | 8.17 |
| 2019 | 79.36 | 86.95 | 7.59 | 2045 | 80.76 | 88.94 | 8.19 |
| 2020 | 79.43 | 87.05 | 7.61 | 2046 | 80.80 | 89.00 | 8.20 |
| 2021 | 79.50 | 87.15 | 7.64 | 2047 | 80.83 | 89.05 | 8.22 |
| 2022 | 79.57 | 87.24 | 7.67 | 2048 | 80.87 | 89.11 | 8.24 |
| 2023 | 79.64 | 87.34 | 7.70 | 2049 | 80.91 | 89.16 | 8.25 |
| 2024 | 79.70 | 87.43 | 7.73 | 2050 | 80.95 | 89.22 | 8.27 |
| 2025 | 79.76 | 87.52 | 7.75 | | | | |

Figure 7 Actual and projected total fertility rate, 1950-2050**Table 7** Actual and projected total period fertility rate under the three variants

| Year | Medium | High | Low | Year | Medium | High | Low |
|------|---------|---------|---------|------|---------|---------|---------|
| 2000 | 1.35918 | 1.35918 | 1.35918 | 2026 | 1.38214 | 1.62256 | 1.10603 |
| 2001 | 1.34277 | 1.36761 | 1.31671 | 2027 | 1.38253 | 1.62303 | 1.10527 |
| 2002 | 1.33240 | 1.36752 | 1.29344 | 2028 | 1.38304 | 1.62348 | 1.10475 |
| 2003 | 1.32344 | 1.37084 | 1.26896 | 2029 | 1.38361 | 1.62391 | 1.10441 |
| 2004 | 1.31686 | 1.37857 | 1.24511 | 2030 | 1.38420 | 1.62429 | 1.10419 |
| 2005 | 1.31076 | 1.38831 | 1.22074 | 2031 | 1.38477 | 1.62460 | 1.10404 |
| 2006 | 1.30696 | 1.40118 | 1.19843 | 2032 | 1.38528 | 1.62485 | 1.10392 |
| 2007 | 1.30622 | 1.41744 | 1.17963 | 2033 | 1.38565 | 1.62496 | 1.10375 |
| 2008 | 1.30816 | 1.43632 | 1.16432 | 2034 | 1.38599 | 1.62505 | 1.10363 |
| 2009 | 1.31166 | 1.45585 | 1.15156 | 2035 | 1.38629 | 1.62514 | 1.10356 |
| 2010 | 1.31786 | 1.47677 | 1.14260 | 2036 | 1.38654 | 1.62521 | 1.10351 |
| 2011 | 1.32471 | 1.49694 | 1.13555 | 2037 | 1.38673 | 1.62526 | 1.10347 |
| 2012 | 1.33225 | 1.51606 | 1.13025 | 2038 | 1.38688 | 1.62530 | 1.10344 |
| 2013 | 1.33929 | 1.53359 | 1.12556 | 2039 | 1.38699 | 1.62533 | 1.10342 |
| 2014 | 1.34688 | 1.55023 | 1.12258 | 2040 | 1.38708 | 1.62535 | 1.10340 |
| 2015 | 1.35370 | 1.56484 | 1.12022 | 2041 | 1.38714 | 1.62536 | 1.10339 |
| 2016 | 1.36028 | 1.57793 | 1.11880 | 2042 | 1.38718 | 1.62537 | 1.10339 |
| 2017 | 1.36509 | 1.58814 | 1.11677 | 2043 | 1.38721 | 1.62538 | 1.10338 |
| 2018 | 1.36881 | 1.59634 | 1.11469 | 2044 | 1.38723 | 1.62538 | 1.10338 |
| 2019 | 1.37303 | 1.60418 | 1.11407 | 2045 | 1.38725 | 1.62538 | 1.10338 |
| 2020 | 1.37522 | 1.60924 | 1.11222 | 2046 | 1.38725 | 1.62538 | 1.10338 |
| 2021 | 1.37673 | 1.61295 | 1.11039 | 2047 | 1.38726 | 1.62538 | 1.10338 |
| 2022 | 1.37890 | 1.61674 | 1.10983 | 2048 | 1.38726 | 1.62538 | 1.10338 |
| 2023 | 1.37992 | 1.61885 | 1.10857 | 2049 | 1.38726 | 1.62538 | 1.10338 |
| 2024 | 1.38091 | 1.62060 | 1.10769 | 2050 | 1.38726 | 1.62538 | 1.10338 |
| 2025 | 1.38191 | 1.62208 | 1.10713 | | | | |

Figure 8 Actual sex ratio at birth, 1985-2000**Table 8 Number of birth and sex ratio at birth, 1970-2000**

| Year | Total | Male | Female | Sex ratio ¹⁾ |
|------|-----------|-----------|---------|-------------------------|
| 1970 | 1,934,239 | 1,000,403 | 933,836 | 107.1 |
| 1975 | 1,901,440 | 979,091 | 922,349 | 106.2 |
| 1976 | 1,832,617 | 943,829 | 888,788 | 106.2 |
| 1977 | 1,755,100 | 903,380 | 851,720 | 106.1 |
| 1978 | 1,708,643 | 879,149 | 829,494 | 106.0 |
| 1979 | 1,642,580 | 845,884 | 796,696 | 106.2 |
| 1980 | 1,576,889 | 811,418 | 765,471 | 106.0 |
| 1981 | 1,529,455 | 786,596 | 742,859 | 105.9 |
| 1982 | 1,515,392 | 777,855 | 737,537 | 105.5 |
| 1983 | 1,508,687 | 775,206 | 733,481 | 105.7 |
| 1984 | 1,489,780 | 764,597 | 725,183 | 105.4 |
| 1985 | 1,431,577 | 735,284 | 696,293 | 105.6 |
| 1986 | 1,382,946 | 711,301 | 671,645 | 105.9 |
| 1987 | 1,346,658 | 692,304 | 654,354 | 105.8 |
| 1988 | 1,314,006 | 674,883 | 639,123 | 105.6 |
| 1989 | 1,246,802 | 640,506 | 606,296 | 105.6 |
| 1990 | 1,221,585 | 626,971 | 594,614 | 105.4 |
| 1991 | 1,223,245 | 628,615 | 594,630 | 105.7 |
| 1992 | 1,208,989 | 622,136 | 586,853 | 106.0 |
| 1993 | 1,188,282 | 610,244 | 578,038 | 105.6 |
| 1994 | 1,238,328 | 635,915 | 602,413 | 105.6 |
| 1995 | 1,187,064 | 608,547 | 578,517 | 105.2 |
| 1996 | 1,206,555 | 619,793 | 586,762 | 105.6 |
| 1997 | 1,191,665 | 610,905 | 580,760 | 105.2 |
| 1998 | 1,203,147 | 617,414 | 585,733 | 105.4 |
| 1999 | 1,177,669 | 604,769 | 572,900 | 105.6 |
| 2000 | 1,190,547 | 612,148 | 578,399 | 105.8 |

Source: Ministry of Health and Welfare, Vital Statistics

¹⁾ males per 100 females

Figure 9 Assumption of net (entries minus exits) international migration rate for Japanese population

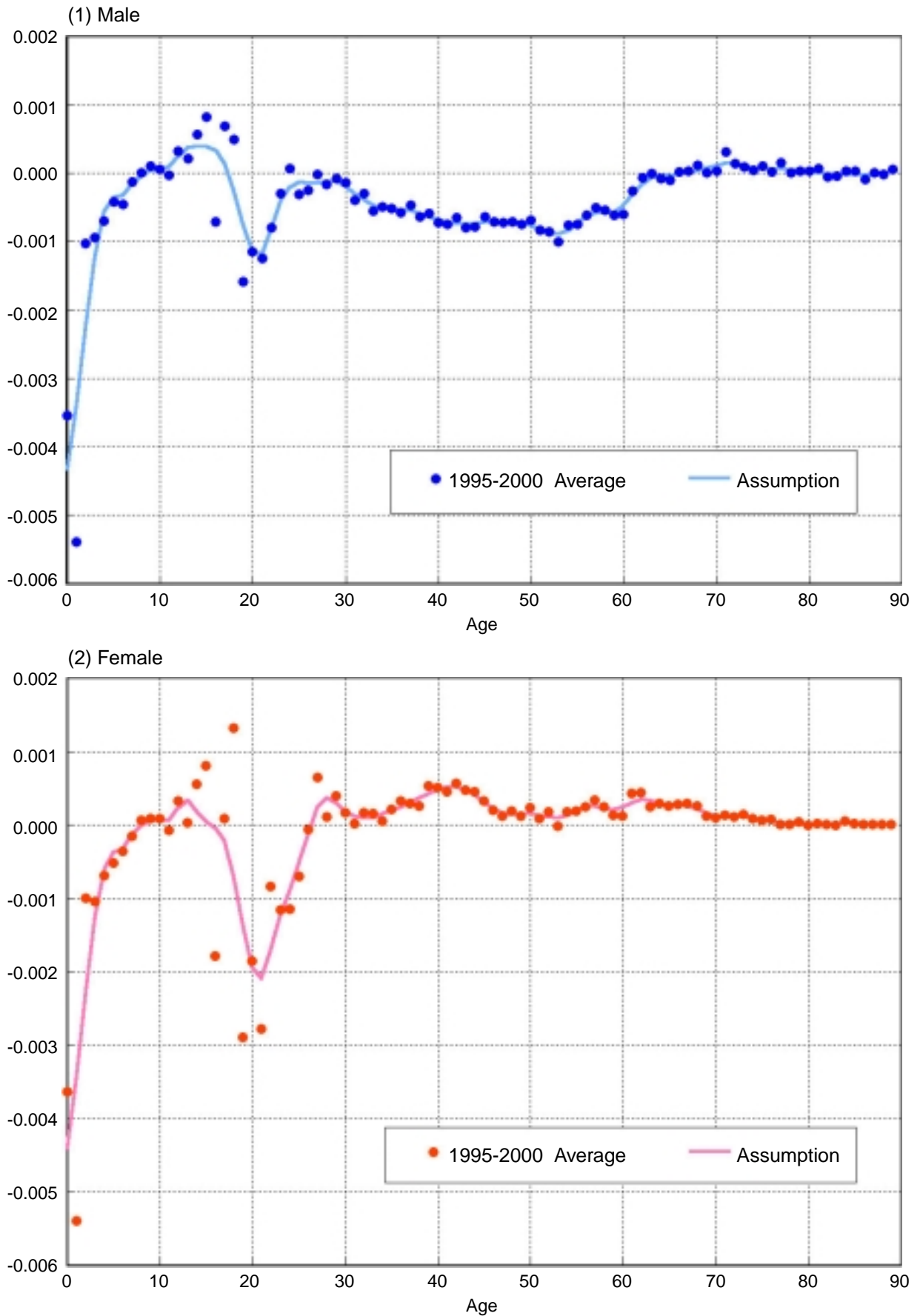


Figure 10 Assumption of the amount of net (entries minus exits) international migrants for not-Japanese population

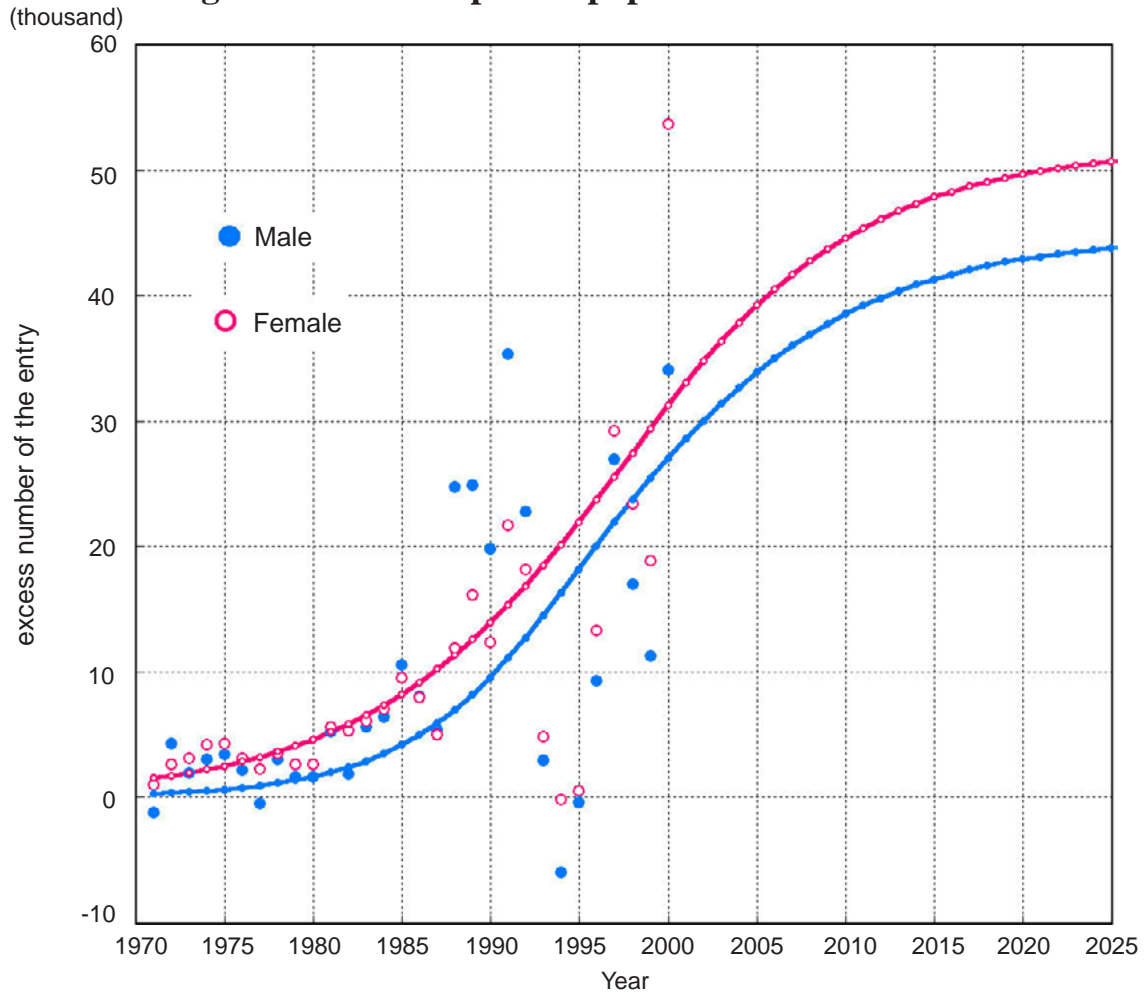
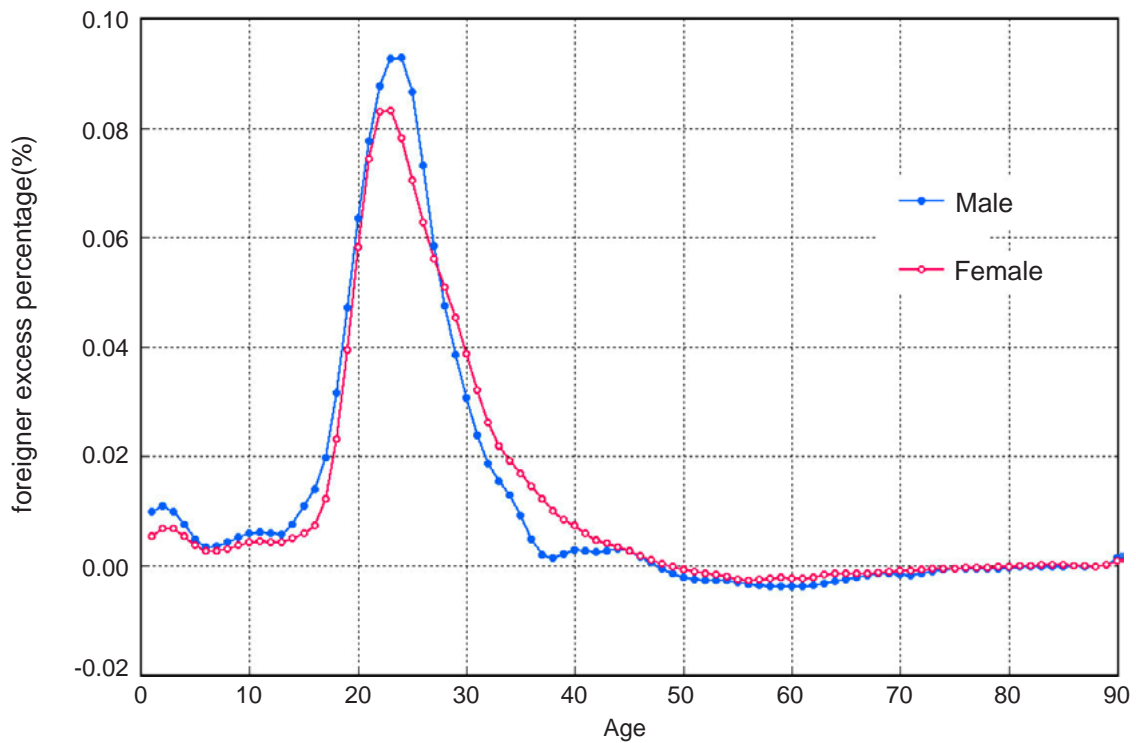


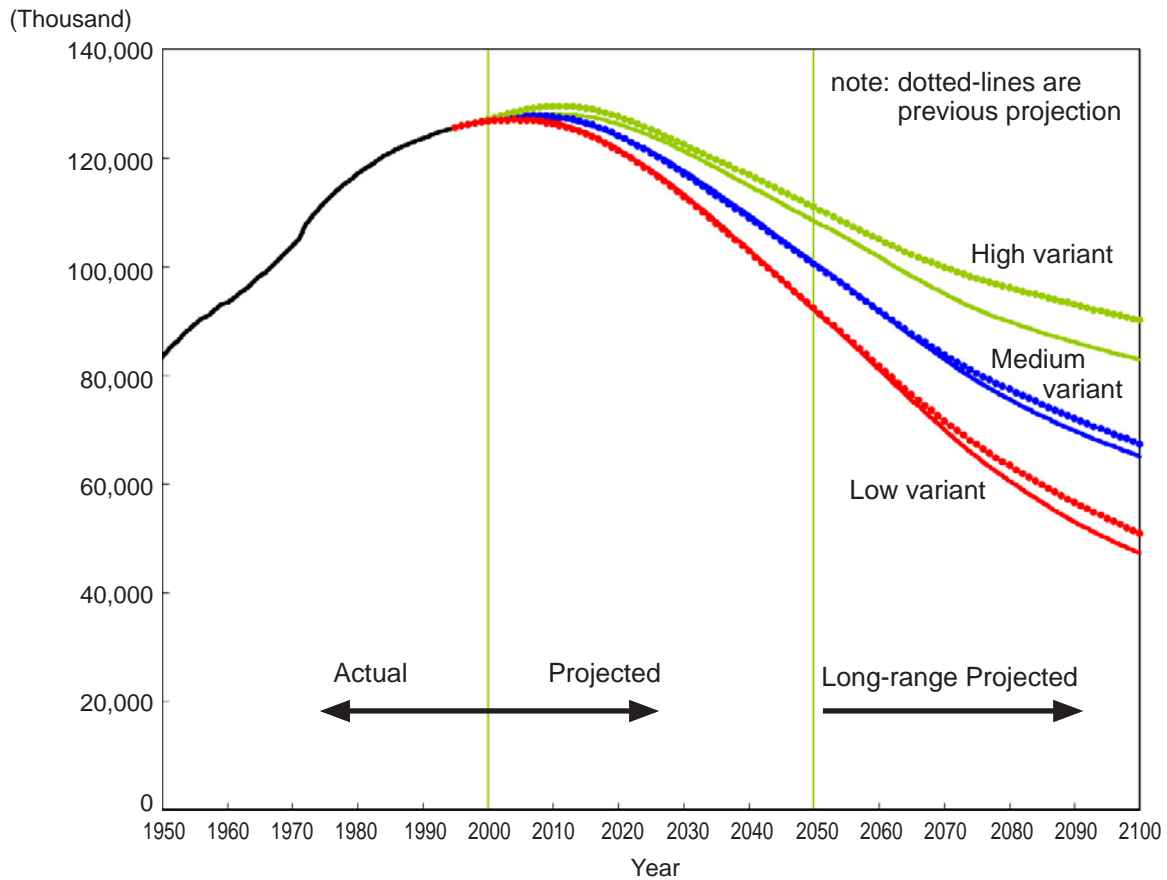
Figure 11 Assumption of the age pattern of net international migration for non-Japanese population



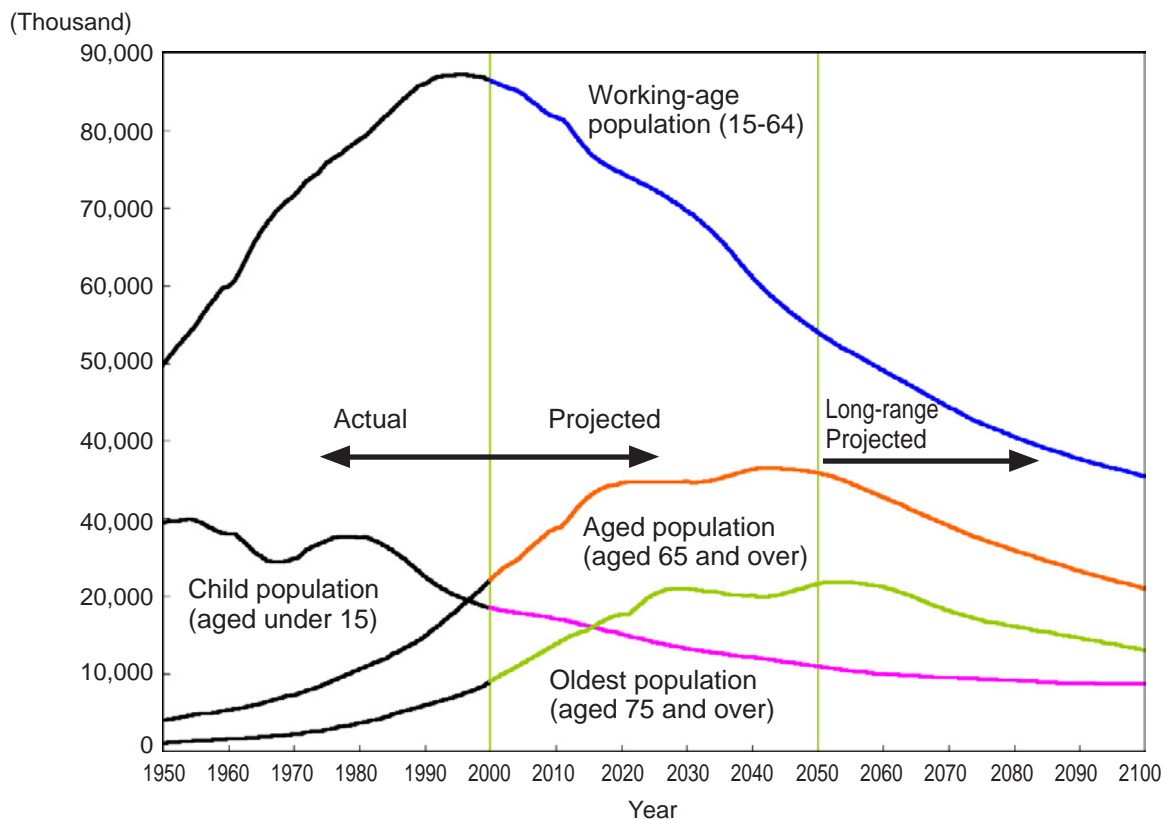
Result of Long-Range Projection

In order to project the population trend from 2000 to 2100, a long-range projection for the years between 2051 and 2100 was carried out. We assumed that the survival rate, sex ratio at births, and rate of international net-migration would remain constant for 2050 and thereafter, and the fertility rate would regress from the level in 2050 to 2.07, the population replacement level for 2050 to 2150

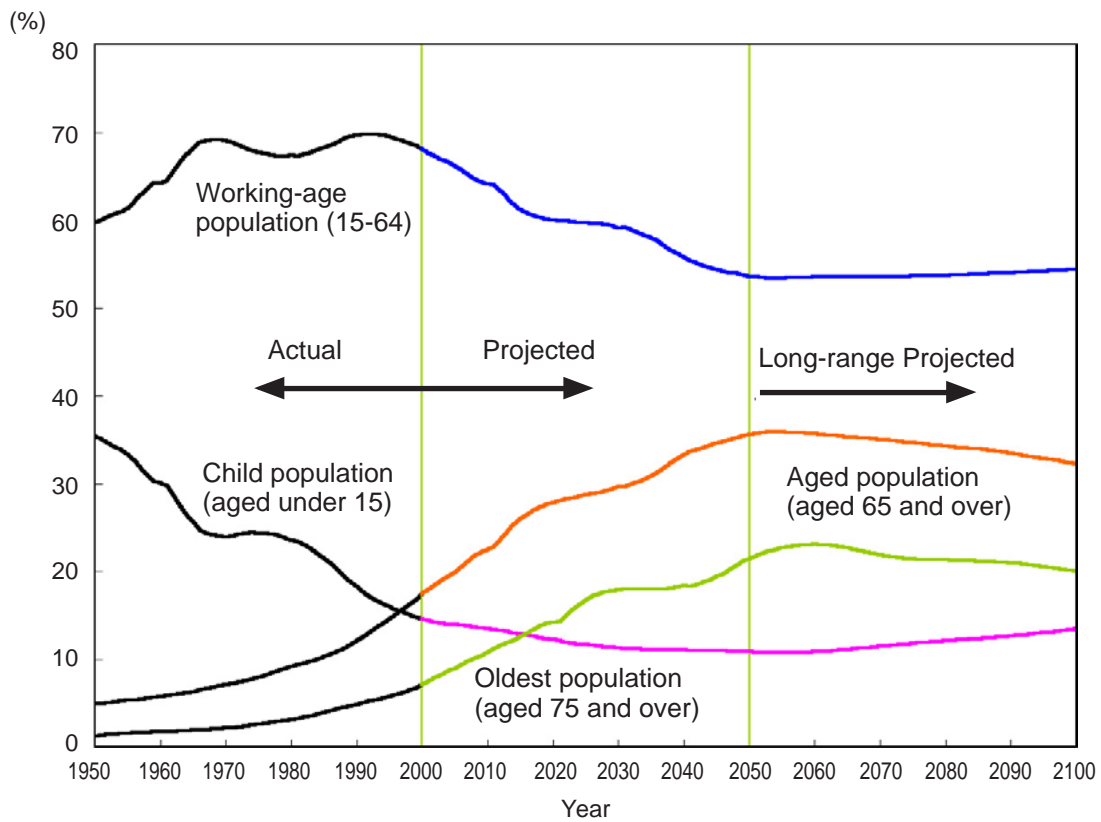
Reference Figure 1 Actual and projected population of Japan, 1950-2100



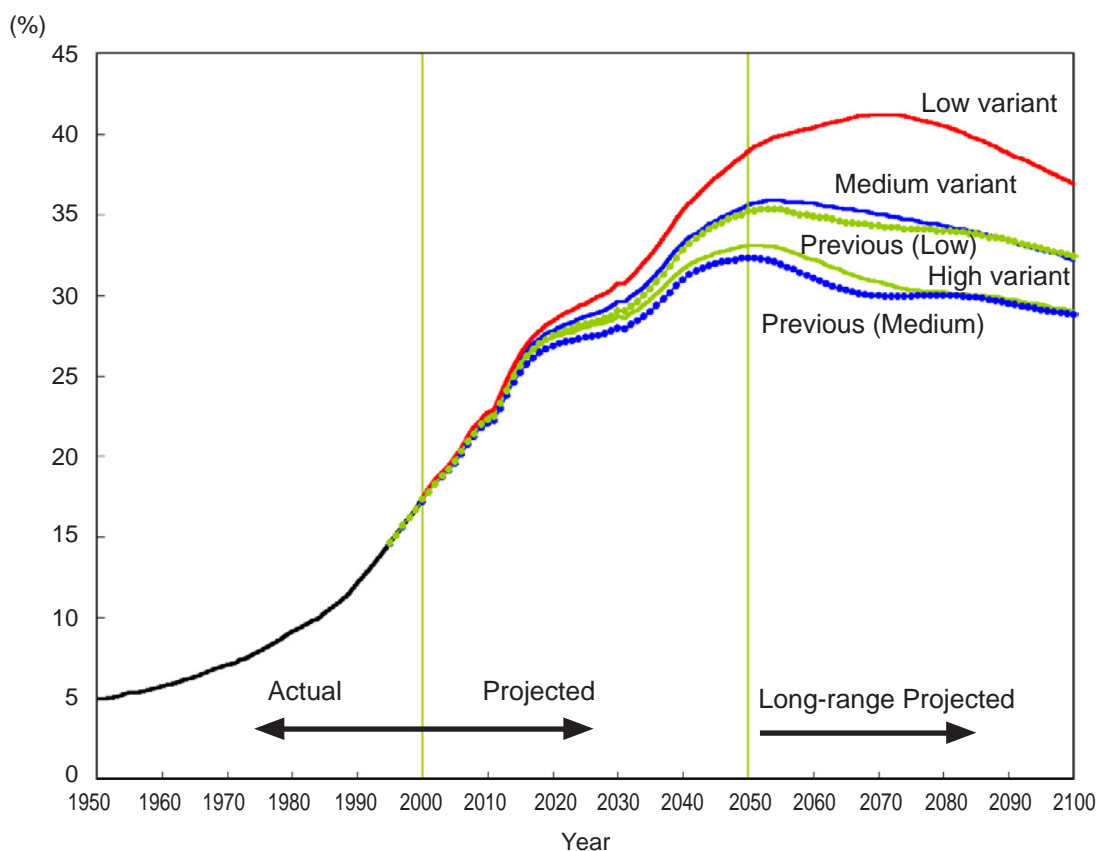
Reference Figure 2 Trends in the number of the major age composition, 1950-2100: Medium Variant



Reference Figure 3 Trends in the percentage of the major age composition of the total population, 1950-2100: Medium variant



Reference Figure 4 Trends in the percentage of the aged population, 1950-2100



Reference Table 1 Projected future population and proportion by age group, 2051-2100: Medium variant

| Year | Population(thousand) | | | | Proportion(%) | | |
|------|----------------------|--------|--------|--------|---------------|-------|------|
| | Total | 0-14 | 15-64 | 65+ | 0-14 | 15-64 | 65+ |
| 2051 | 99,719 | 10,718 | 53,331 | 35,669 | 10.7 | 53.5 | 35.8 |
| 2052 | 98,840 | 10,599 | 52,787 | 35,454 | 10.7 | 53.4 | 35.9 |
| 2053 | 97,956 | 10,483 | 52,268 | 35,205 | 10.7 | 53.4 | 35.9 |
| 2054 | 97,067 | 10,372 | 51,787 | 34,907 | 10.7 | 53.4 | 36.0 |
| 2055 | 96,171 | 10,266 | 51,318 | 34,586 | 10.7 | 53.4 | 36.0 |
| 2056 | 95,268 | 10,166 | 50,865 | 34,237 | 10.7 | 53.4 | 35.9 |
| 2057 | 94,358 | 10,071 | 50,404 | 33,883 | 10.7 | 53.4 | 35.9 |
| 2058 | 93,442 | 9,982 | 49,952 | 33,508 | 10.7 | 53.5 | 35.9 |
| 2059 | 92,520 | 9,899 | 49,475 | 33,146 | 10.7 | 53.5 | 35.8 |
| 2060 | 91,593 | 9,822 | 48,993 | 32,778 | 10.7 | 53.5 | 35.8 |
| 2061 | 90,663 | 9,752 | 48,520 | 32,392 | 10.8 | 53.5 | 35.7 |
| 2062 | 89,732 | 9,687 | 48,035 | 32,010 | 10.8 | 53.5 | 35.7 |
| 2063 | 88,802 | 9,629 | 47,541 | 31,633 | 10.8 | 53.5 | 35.6 |
| 2064 | 87,875 | 9,576 | 47,064 | 31,235 | 10.9 | 53.6 | 35.5 |
| 2065 | 86,953 | 9,528 | 46,580 | 30,845 | 11.0 | 53.6 | 35.5 |
| 2066 | 86,039 | 9,483 | 46,077 | 30,479 | 11.0 | 53.6 | 35.4 |
| 2067 | 85,136 | 9,440 | 45,580 | 30,116 | 11.1 | 53.5 | 35.4 |
| 2068 | 84,244 | 9,398 | 45,091 | 29,755 | 11.2 | 53.5 | 35.3 |
| 2069 | 83,367 | 9,356 | 44,613 | 29,398 | 11.2 | 53.5 | 35.3 |
| 2070 | 82,506 | 9,316 | 44,147 | 29,043 | 11.3 | 53.5 | 35.2 |
| 2071 | 81,662 | 9,275 | 43,695 | 28,692 | 11.4 | 53.5 | 35.1 |
| 2072 | 80,837 | 9,234 | 43,256 | 28,347 | 11.4 | 53.5 | 35.1 |
| 2073 | 80,031 | 9,194 | 42,829 | 28,008 | 11.5 | 53.5 | 35.0 |
| 2074 | 79,244 | 9,152 | 42,416 | 27,676 | 11.5 | 53.5 | 34.9 |
| 2075 | 78,478 | 9,111 | 42,013 | 27,354 | 11.6 | 53.5 | 34.9 |
| 2076 | 77,732 | 9,069 | 41,622 | 27,041 | 11.7 | 53.5 | 34.8 |
| 2077 | 77,004 | 9,026 | 41,241 | 26,737 | 11.7 | 53.6 | 34.7 |
| 2078 | 76,296 | 8,983 | 40,872 | 26,441 | 11.8 | 53.6 | 34.7 |
| 2079 | 75,605 | 8,940 | 40,512 | 26,153 | 11.8 | 53.6 | 34.6 |
| 2080 | 74,931 | 8,897 | 40,164 | 25,870 | 11.9 | 53.6 | 34.5 |
| 2081 | 74,274 | 8,854 | 39,827 | 25,593 | 11.9 | 53.6 | 34.5 |
| 2082 | 73,631 | 8,812 | 39,500 | 25,319 | 12.0 | 53.6 | 34.4 |
| 2083 | 73,004 | 8,772 | 39,185 | 25,047 | 12.0 | 53.7 | 34.3 |
| 2084 | 72,390 | 8,732 | 38,880 | 24,778 | 12.1 | 53.7 | 34.2 |
| 2085 | 71,789 | 8,694 | 38,584 | 24,510 | 12.1 | 53.7 | 34.1 |
| 2086 | 71,201 | 8,659 | 38,298 | 24,244 | 12.2 | 53.8 | 34.1 |
| 2087 | 70,625 | 8,625 | 38,020 | 23,980 | 12.2 | 53.8 | 34.0 |
| 2088 | 70,061 | 8,594 | 37,748 | 23,719 | 12.3 | 53.9 | 33.9 |
| 2089 | 69,508 | 8,566 | 37,482 | 23,461 | 12.3 | 53.9 | 33.8 |
| 2090 | 68,966 | 8,540 | 37,221 | 23,205 | 12.4 | 54.0 | 33.6 |
| 2091 | 68,435 | 8,517 | 36,965 | 22,953 | 12.4 | 54.0 | 33.5 |
| 2092 | 67,914 | 8,497 | 36,713 | 22,704 | 12.5 | 54.1 | 33.4 |
| 2093 | 67,404 | 8,479 | 36,466 | 22,459 | 12.6 | 54.1 | 33.3 |
| 2094 | 66,904 | 8,464 | 36,222 | 22,218 | 12.7 | 54.1 | 33.2 |
| 2095 | 66,416 | 8,451 | 35,982 | 21,982 | 12.7 | 54.2 | 33.1 |
| 2096 | 65,938 | 8,441 | 35,746 | 21,750 | 12.8 | 54.2 | 33.0 |
| 2097 | 65,471 | 8,432 | 35,515 | 21,524 | 12.9 | 54.2 | 32.9 |
| 2098 | 65,015 | 8,425 | 35,288 | 21,302 | 13.0 | 54.3 | 32.8 |
| 2099 | 64,570 | 8,420 | 35,067 | 21,084 | 13.0 | 54.3 | 32.7 |
| 2100 | 64,137 | 8,415 | 34,851 | 20,871 | 13.1 | 54.3 | 32.5 |

Reference Table 2 Projected future population and proportion by age group, 2051-2100: High variant

| Year | Population(thousand) | | | | Proportion(%) | | |
|------|----------------------|--------|--------|--------|---------------|-------|------|
| | Total | 0-14 | 15-64 | 65+ | 0-14 | 15-64 | 65+ |
| 2051 | 107,593 | 13,926 | 57,997 | 35,669 | 12.9 | 53.9 | 33.2 |
| 2052 | 106,935 | 13,843 | 57,638 | 35,454 | 12.9 | 53.9 | 33.2 |
| 2053 | 106,271 | 13,757 | 57,309 | 35,205 | 12.9 | 53.9 | 33.1 |
| 2054 | 105,600 | 13,671 | 57,022 | 34,907 | 12.9 | 54.0 | 33.1 |
| 2055 | 104,922 | 13,585 | 56,751 | 34,586 | 12.9 | 54.1 | 33.0 |
| 2056 | 104,236 | 13,499 | 56,500 | 34,237 | 13.0 | 54.2 | 32.8 |
| 2057 | 103,542 | 13,414 | 56,245 | 33,883 | 13.0 | 54.3 | 32.7 |
| 2058 | 102,841 | 13,331 | 56,002 | 33,508 | 13.0 | 54.5 | 32.6 |
| 2059 | 102,133 | 13,252 | 55,736 | 33,146 | 13.0 | 54.6 | 32.5 |
| 2060 | 101,421 | 13,176 | 55,467 | 32,778 | 13.0 | 54.7 | 32.3 |
| 2061 | 100,705 | 13,105 | 55,208 | 32,392 | 13.0 | 54.8 | 32.2 |
| 2062 | 99,989 | 13,040 | 54,939 | 32,010 | 13.0 | 54.9 | 32.0 |
| 2063 | 99,273 | 12,980 | 54,661 | 31,633 | 13.1 | 55.1 | 31.9 |
| 2064 | 98,561 | 12,926 | 54,400 | 31,235 | 13.1 | 55.2 | 31.7 |
| 2065 | 97,854 | 12,878 | 54,132 | 30,845 | 13.2 | 55.3 | 31.5 |
| 2066 | 97,158 | 12,834 | 53,830 | 30,493 | 13.2 | 55.4 | 31.4 |
| 2067 | 96,471 | 12,795 | 53,523 | 30,154 | 13.3 | 55.5 | 31.3 |
| 2068 | 95,798 | 12,759 | 53,213 | 29,825 | 13.3 | 55.5 | 31.1 |
| 2069 | 95,139 | 12,727 | 52,903 | 29,510 | 13.4 | 55.6 | 31.0 |
| 2070 | 94,498 | 12,697 | 52,592 | 29,209 | 13.4 | 55.7 | 30.9 |
| 2071 | 93,874 | 12,670 | 52,282 | 28,922 | 13.5 | 55.7 | 30.8 |
| 2072 | 93,269 | 12,644 | 51,973 | 28,652 | 13.6 | 55.7 | 30.7 |
| 2073 | 92,684 | 12,620 | 51,665 | 28,398 | 13.6 | 55.7 | 30.6 |
| 2074 | 92,118 | 12,597 | 51,359 | 28,162 | 13.7 | 55.8 | 30.6 |
| 2075 | 91,572 | 12,574 | 51,055 | 27,943 | 13.7 | 55.8 | 30.5 |
| 2076 | 91,045 | 12,551 | 50,754 | 27,741 | 13.8 | 55.7 | 30.5 |
| 2077 | 90,537 | 12,527 | 50,457 | 27,552 | 13.8 | 55.7 | 30.4 |
| 2078 | 90,046 | 12,503 | 50,167 | 27,376 | 13.9 | 55.7 | 30.4 |
| 2079 | 89,571 | 12,477 | 49,884 | 27,209 | 13.9 | 55.7 | 30.4 |
| 2080 | 89,111 | 12,450 | 49,610 | 27,050 | 14.0 | 55.7 | 30.4 |
| 2081 | 88,664 | 12,423 | 49,346 | 26,896 | 14.0 | 55.7 | 30.3 |
| 2082 | 88,231 | 12,394 | 49,093 | 26,744 | 14.0 | 55.6 | 30.3 |
| 2083 | 87,809 | 12,364 | 48,852 | 26,594 | 14.1 | 55.6 | 30.3 |
| 2084 | 87,398 | 12,333 | 48,622 | 26,442 | 14.1 | 55.6 | 30.3 |
| 2085 | 86,996 | 12,302 | 48,404 | 26,290 | 14.1 | 55.6 | 30.2 |
| 2086 | 86,603 | 12,271 | 48,197 | 26,135 | 14.2 | 55.7 | 30.2 |
| 2087 | 86,219 | 12,240 | 47,999 | 25,980 | 14.2 | 55.7 | 30.1 |
| 2088 | 85,841 | 12,210 | 47,809 | 25,822 | 14.2 | 55.7 | 30.1 |
| 2089 | 85,471 | 12,181 | 47,627 | 25,663 | 14.3 | 55.7 | 30.0 |
| 2090 | 85,106 | 12,154 | 47,450 | 25,502 | 14.3 | 55.8 | 30.0 |
| 2091 | 84,748 | 12,128 | 47,279 | 25,341 | 14.3 | 55.8 | 29.9 |
| 2092 | 84,394 | 12,105 | 47,111 | 25,179 | 14.3 | 55.8 | 29.8 |
| 2093 | 84,047 | 12,083 | 46,947 | 25,016 | 14.4 | 55.9 | 29.8 |
| 2094 | 83,704 | 12,064 | 46,784 | 24,855 | 14.4 | 55.9 | 29.7 |
| 2095 | 83,366 | 12,048 | 46,623 | 24,695 | 14.5 | 55.9 | 29.6 |
| 2096 | 83,034 | 12,034 | 46,463 | 24,537 | 14.5 | 56.0 | 29.5 |
| 2097 | 82,708 | 12,023 | 46,304 | 24,381 | 14.5 | 56.0 | 29.5 |
| 2098 | 82,387 | 12,014 | 46,145 | 24,228 | 14.6 | 56.0 | 29.4 |
| 2099 | 82,072 | 12,008 | 45,986 | 24,078 | 14.6 | 56.0 | 29.3 |
| 2100 | 81,764 | 12,004 | 45,829 | 23,931 | 14.7 | 56.1 | 29.3 |

Reference Table 3 Projected future population and proportion by age group, 2051-2100: Low variant

| Year | Population(thousand) | | | | Proportion(%) | | |
|------|----------------------|-------|--------|--------|---------------|-------|------|
| | Total | 0-14 | 15-64 | 65+ | 0-14 | 15-64 | 65+ |
| 2051 | 90,933 | 7,342 | 47,922 | 35,669 | 8.1 | 52.7 | 39.2 |
| 2052 | 89,831 | 7,206 | 47,171 | 35,454 | 8.0 | 52.5 | 39.5 |
| 2053 | 88,727 | 7,079 | 46,443 | 35,205 | 8.0 | 52.3 | 39.7 |
| 2054 | 87,618 | 6,961 | 45,750 | 34,907 | 7.9 | 52.2 | 39.8 |
| 2055 | 86,504 | 6,852 | 45,065 | 34,586 | 7.9 | 52.1 | 40.0 |
| 2056 | 85,384 | 6,751 | 44,396 | 34,237 | 7.9 | 52.0 | 40.1 |
| 2057 | 84,259 | 6,659 | 43,716 | 33,883 | 7.9 | 51.9 | 40.2 |
| 2058 | 83,128 | 6,575 | 43,045 | 33,508 | 7.9 | 51.8 | 40.3 |
| 2059 | 81,992 | 6,499 | 42,347 | 33,146 | 7.9 | 51.6 | 40.4 |
| 2060 | 80,852 | 6,430 | 41,644 | 32,778 | 8.0 | 51.5 | 40.5 |
| 2061 | 79,710 | 6,368 | 40,950 | 32,392 | 8.0 | 51.4 | 40.6 |
| 2062 | 78,567 | 6,312 | 40,244 | 32,010 | 8.0 | 51.2 | 40.7 |
| 2063 | 77,425 | 6,262 | 39,530 | 31,633 | 8.1 | 51.1 | 40.9 |
| 2064 | 76,286 | 6,216 | 38,835 | 31,235 | 8.1 | 50.9 | 40.9 |
| 2065 | 75,152 | 6,175 | 38,133 | 30,845 | 8.2 | 50.7 | 41.0 |
| 2066 | 74,028 | 6,135 | 37,429 | 30,464 | 8.3 | 50.6 | 41.2 |
| 2067 | 72,914 | 6,095 | 36,747 | 30,072 | 8.4 | 50.4 | 41.2 |
| 2068 | 71,812 | 6,054 | 36,086 | 29,672 | 8.4 | 50.3 | 41.3 |
| 2069 | 70,725 | 6,013 | 35,450 | 29,262 | 8.5 | 50.1 | 41.4 |
| 2070 | 69,654 | 5,970 | 34,842 | 28,842 | 8.6 | 50.0 | 41.4 |
| 2071 | 68,602 | 5,927 | 34,262 | 28,413 | 8.6 | 49.9 | 41.4 |
| 2072 | 67,569 | 5,883 | 33,709 | 27,977 | 8.7 | 49.9 | 41.4 |
| 2073 | 66,557 | 5,838 | 33,183 | 27,536 | 8.8 | 49.9 | 41.4 |
| 2074 | 65,565 | 5,792 | 32,680 | 27,094 | 8.8 | 49.8 | 41.3 |
| 2075 | 64,596 | 5,745 | 32,198 | 26,652 | 8.9 | 49.8 | 41.3 |
| 2076 | 63,648 | 5,699 | 31,736 | 26,213 | 9.0 | 49.9 | 41.2 |
| 2077 | 62,721 | 5,652 | 31,292 | 25,778 | 9.0 | 49.9 | 41.1 |
| 2078 | 61,816 | 5,606 | 30,864 | 25,345 | 9.1 | 49.9 | 41.0 |
| 2079 | 60,931 | 5,561 | 30,453 | 24,917 | 9.1 | 50.0 | 40.9 |
| 2080 | 60,066 | 5,517 | 30,055 | 24,494 | 9.2 | 50.0 | 40.8 |
| 2081 | 59,220 | 5,475 | 29,671 | 24,074 | 9.2 | 50.1 | 40.7 |
| 2082 | 58,394 | 5,435 | 29,300 | 23,659 | 9.3 | 50.2 | 40.5 |
| 2083 | 57,585 | 5,397 | 28,940 | 23,248 | 9.4 | 50.3 | 40.4 |
| 2084 | 56,795 | 5,362 | 28,590 | 22,842 | 9.4 | 50.3 | 40.2 |
| 2085 | 56,022 | 5,330 | 28,250 | 22,442 | 9.5 | 50.4 | 40.1 |
| 2086 | 55,266 | 5,301 | 27,918 | 22,047 | 9.6 | 50.5 | 39.9 |
| 2087 | 54,527 | 5,275 | 27,593 | 21,659 | 9.7 | 50.6 | 39.7 |
| 2088 | 53,805 | 5,252 | 27,275 | 21,278 | 9.8 | 50.7 | 39.5 |
| 2089 | 53,099 | 5,233 | 26,963 | 20,904 | 9.9 | 50.8 | 39.4 |
| 2090 | 52,410 | 5,216 | 26,656 | 20,538 | 10.0 | 50.9 | 39.2 |
| 2091 | 51,737 | 5,202 | 26,355 | 20,181 | 10.1 | 50.9 | 39.0 |
| 2092 | 51,081 | 5,190 | 26,059 | 19,831 | 10.2 | 51.0 | 38.8 |
| 2093 | 50,441 | 5,181 | 25,770 | 19,490 | 10.3 | 51.1 | 38.6 |
| 2094 | 49,819 | 5,174 | 25,488 | 19,157 | 10.4 | 51.2 | 38.5 |
| 2095 | 49,213 | 5,169 | 25,213 | 18,832 | 10.5 | 51.2 | 38.3 |
| 2096 | 48,625 | 5,165 | 24,945 | 18,516 | 10.6 | 51.3 | 38.1 |
| 2097 | 48,055 | 5,162 | 24,686 | 18,208 | 10.7 | 51.4 | 37.9 |
| 2098 | 47,502 | 5,160 | 24,435 | 17,907 | 10.9 | 51.4 | 37.7 |
| 2099 | 46,967 | 5,158 | 24,195 | 17,614 | 11.0 | 51.5 | 37.5 |
| 2100 | 46,450 | 5,157 | 23,965 | 17,328 | 11.1 | 51.6 | 37.3 |

Reference Table 4 Selected age-structure indices of future population, 2051-2100:Medium variant

| Year | Mean Age (yr.) | Median Age (yr.) | Defining Productive Age as 15-64 Years Old | | | | Defining Productive Age as 20-69 Years Old | | | |
|------|----------------|------------------|--|----------|---------|---------------------------|--|----------|---------|---------------------------|
| | | | Age Dependency Ratio(%) | | | Elderly-Children Ratio(%) | Age Dependency Ratio(%) | | | Elderly-Children Ratio(%) |
| | | | Total | Children | Old-age | | Total | Children | Old-age | |
| 2051 | 51.4 | 53.5 | 87.0 | 20.1 | 66.9 | 332.8 | 77.6 | 26.2 | 51.4 | 195.8 |
| 2052 | 51.5 | 53.6 | 87.2 | 20.1 | 67.2 | 334.5 | 78.0 | 26.3 | 51.8 | 197.3 |
| 2053 | 51.6 | 53.6 | 87.4 | 20.1 | 67.4 | 335.8 | 78.5 | 26.3 | 52.2 | 198.8 |
| 2054 | 51.6 | 53.7 | 87.4 | 20.0 | 67.4 | 336.5 | 79.0 | 26.3 | 52.7 | 200.1 |
| 2055 | 51.7 | 53.7 | 87.4 | 20.0 | 67.4 | 336.9 | 79.3 | 26.3 | 53.0 | 201.1 |
| 2056 | 51.7 | 53.8 | 87.3 | 20.0 | 67.3 | 336.8 | 79.5 | 26.3 | 53.1 | 201.6 |
| 2057 | 51.8 | 53.8 | 87.2 | 20.0 | 67.2 | 336.4 | 79.6 | 26.4 | 53.2 | 201.9 |
| 2058 | 51.8 | 53.9 | 87.1 | 20.0 | 67.1 | 335.7 | 79.6 | 26.4 | 53.2 | 201.9 |
| 2059 | 51.8 | 53.9 | 87.0 | 20.0 | 67.0 | 334.8 | 79.4 | 26.4 | 53.1 | 201.4 |
| 2060 | 51.8 | 53.9 | 87.0 | 20.0 | 66.9 | 333.7 | 79.3 | 26.4 | 52.9 | 200.7 |
| 2061 | 51.8 | 53.9 | 86.9 | 20.1 | 66.8 | 332.2 | 79.0 | 26.4 | 52.6 | 199.6 |
| 2062 | 51.8 | 53.9 | 86.8 | 20.2 | 66.6 | 330.4 | 78.8 | 26.4 | 52.4 | 198.5 |
| 2063 | 51.8 | 53.8 | 86.8 | 20.3 | 66.5 | 328.5 | 78.5 | 26.4 | 52.1 | 197.1 |
| 2064 | 51.8 | 53.8 | 86.7 | 20.3 | 66.4 | 326.2 | 78.4 | 26.5 | 51.9 | 195.8 |
| 2065 | 51.7 | 53.7 | 86.7 | 20.5 | 66.2 | 323.7 | 78.2 | 26.6 | 51.6 | 194.4 |
| 2066 | 51.7 | 53.7 | 86.7 | 20.6 | 66.1 | 321.4 | 78.0 | 26.6 | 51.4 | 192.9 |
| 2067 | 51.6 | 53.6 | 86.8 | 20.7 | 66.1 | 319.0 | 77.9 | 26.8 | 51.2 | 191.3 |
| 2068 | 51.5 | 53.5 | 86.8 | 20.8 | 66.0 | 316.6 | 77.9 | 26.9 | 51.0 | 189.8 |
| 2069 | 51.5 | 53.5 | 86.9 | 21.0 | 65.9 | 314.2 | 77.8 | 27.0 | 50.8 | 188.1 |
| 2070 | 51.4 | 53.4 | 86.9 | 21.1 | 65.8 | 311.8 | 77.8 | 27.2 | 50.6 | 186.5 |
| 2071 | 51.3 | 53.3 | 86.9 | 21.2 | 65.7 | 309.4 | 77.9 | 27.3 | 50.5 | 185.0 |
| 2072 | 51.2 | 53.2 | 86.9 | 21.3 | 65.5 | 307.0 | 78.0 | 27.5 | 50.5 | 183.7 |
| 2073 | 51.2 | 53.1 | 86.9 | 21.5 | 65.4 | 304.6 | 78.1 | 27.7 | 50.4 | 182.4 |
| 2074 | 51.1 | 53.0 | 86.8 | 21.6 | 65.2 | 302.4 | 78.2 | 27.8 | 50.4 | 181.1 |
| 2075 | 51.0 | 52.9 | 86.8 | 21.7 | 65.1 | 300.2 | 78.3 | 28.0 | 50.3 | 179.9 |
| 2076 | 51.0 | 52.8 | 86.8 | 21.8 | 65.0 | 298.2 | 78.4 | 28.1 | 50.3 | 178.7 |
| 2077 | 50.9 | 52.7 | 86.7 | 21.9 | 64.8 | 296.2 | 78.5 | 28.3 | 50.2 | 177.6 |
| 2078 | 50.8 | 52.6 | 86.7 | 22.0 | 64.7 | 294.3 | 78.6 | 28.4 | 50.2 | 176.5 |
| 2079 | 50.8 | 52.5 | 86.6 | 22.1 | 64.6 | 292.5 | 78.7 | 28.6 | 50.1 | 175.4 |
| 2080 | 50.7 | 52.5 | 86.6 | 22.2 | 64.4 | 290.8 | 78.8 | 28.7 | 50.1 | 174.4 |
| 2081 | 50.6 | 52.4 | 86.5 | 22.2 | 64.3 | 289.0 | 78.9 | 28.9 | 50.0 | 173.4 |
| 2082 | 50.6 | 52.3 | 86.4 | 22.3 | 64.1 | 287.3 | 78.9 | 29.0 | 50.0 | 172.4 |
| 2083 | 50.5 | 52.2 | 86.3 | 22.4 | 63.9 | 285.5 | 79.0 | 29.1 | 49.9 | 171.4 |
| 2084 | 50.5 | 52.1 | 86.2 | 22.5 | 63.7 | 283.8 | 79.1 | 29.2 | 49.8 | 170.4 |
| 2085 | 50.4 | 52.1 | 86.1 | 22.5 | 63.5 | 281.9 | 79.1 | 29.4 | 49.7 | 169.4 |
| 2086 | 50.3 | 52.0 | 85.9 | 22.6 | 63.3 | 280.0 | 79.1 | 29.5 | 49.6 | 168.4 |
| 2087 | 50.3 | 51.9 | 85.8 | 22.7 | 63.1 | 278.0 | 79.1 | 29.6 | 49.5 | 167.3 |
| 2088 | 50.2 | 51.8 | 85.6 | 22.8 | 62.8 | 276.0 | 79.1 | 29.7 | 49.4 | 166.2 |
| 2089 | 50.2 | 51.8 | 85.4 | 22.9 | 62.6 | 273.9 | 79.1 | 29.8 | 49.2 | 165.0 |
| 2090 | 50.1 | 51.7 | 85.3 | 22.9 | 62.3 | 271.7 | 79.0 | 29.9 | 49.1 | 163.8 |
| 2091 | 50.0 | 51.6 | 85.1 | 23.0 | 62.1 | 269.5 | 78.9 | 30.1 | 48.9 | 162.5 |
| 2092 | 49.9 | 51.5 | 85.0 | 23.1 | 61.8 | 267.2 | 78.9 | 30.2 | 48.7 | 161.2 |
| 2093 | 49.9 | 51.4 | 84.8 | 23.3 | 61.6 | 264.9 | 78.8 | 30.3 | 48.5 | 159.8 |
| 2094 | 49.8 | 51.3 | 84.7 | 23.4 | 61.3 | 262.5 | 78.7 | 30.5 | 48.2 | 158.4 |
| 2095 | 49.7 | 51.1 | 84.6 | 23.5 | 61.1 | 260.1 | 78.6 | 30.6 | 48.0 | 157.0 |
| 2096 | 49.6 | 51.0 | 84.5 | 23.6 | 60.8 | 257.7 | 78.5 | 30.7 | 47.8 | 155.5 |
| 2097 | 49.5 | 50.9 | 84.3 | 23.7 | 60.6 | 255.3 | 78.5 | 30.9 | 47.6 | 154.0 |
| 2098 | 49.4 | 50.8 | 84.2 | 23.9 | 60.4 | 252.8 | 78.4 | 31.0 | 47.4 | 152.6 |
| 2099 | 49.3 | 50.6 | 84.1 | 24.0 | 60.1 | 250.4 | 78.4 | 31.2 | 47.2 | 151.1 |
| 2100 | 49.2 | 50.5 | 84.0 | 24.1 | 59.9 | 248.0 | 78.3 | 31.4 | 47.0 | 149.6 |

Reference Table 5 Trends in live births, deaths, and natural increase, 2051-2100: Medium variant

| Year | Crude number(thousand) | | | Crude rates(‰) | | |
|------|------------------------|-------|------------------|----------------|-------|------------------|
| | Birth | Death | Natural increase | Birth | Death | Natural increase |
| 2051 | 662 | 1,614 | -953 | 6.7 | 16.3 | -9.6 |
| 2052 | 658 | 1,615 | -957 | 6.7 | 16.5 | -9.8 |
| 2053 | 654 | 1,616 | -962 | 6.7 | 16.6 | -9.9 |
| 2054 | 650 | 1,618 | -968 | 6.8 | 16.8 | -10.1 |
| 2055 | 646 | 1,622 | -975 | 6.8 | 17.0 | -10.2 |
| 2056 | 643 | 1,625 | -982 | 6.8 | 17.2 | -10.4 |
| 2057 | 640 | 1,629 | -989 | 6.9 | 17.4 | -10.6 |
| 2058 | 637 | 1,633 | -995 | 6.9 | 17.6 | -10.8 |
| 2059 | 635 | 1,636 | -1,001 | 6.9 | 17.9 | -10.9 |
| 2060 | 632 | 1,637 | -1,005 | 7.0 | 18.1 | -11.1 |
| 2061 | 629 | 1,638 | -1,008 | 7.0 | 18.2 | -11.2 |
| 2062 | 627 | 1,636 | -1,009 | 7.1 | 18.4 | -11.4 |
| 2063 | 624 | 1,632 | -1,008 | 7.1 | 18.6 | -11.5 |
| 2064 | 622 | 1,626 | -1,005 | 7.2 | 18.7 | -11.6 |
| 2065 | 619 | 1,618 | -999 | 7.2 | 18.8 | -11.6 |
| 2066 | 617 | 1,606 | -990 | 7.2 | 18.9 | -11.6 |
| 2067 | 614 | 1,594 | -980 | 7.3 | 18.9 | -11.6 |
| 2068 | 611 | 1,578 | -967 | 7.3 | 18.9 | -11.6 |
| 2069 | 608 | 1,561 | -952 | 7.4 | 18.9 | -11.5 |
| 2070 | 605 | 1,541 | -936 | 7.4 | 18.9 | -11.5 |
| 2071 | 602 | 1,521 | -919 | 7.4 | 18.8 | -11.4 |
| 2072 | 599 | 1,499 | -900 | 7.5 | 18.7 | -11.2 |
| 2073 | 596 | 1,477 | -881 | 7.5 | 18.6 | -11.1 |
| 2074 | 593 | 1,454 | -861 | 7.6 | 18.5 | -11.0 |
| 2075 | 590 | 1,431 | -841 | 7.6 | 18.4 | -10.8 |
| 2076 | 587 | 1,408 | -822 | 7.6 | 18.3 | -10.7 |
| 2077 | 584 | 1,386 | -803 | 7.6 | 18.2 | -10.5 |
| 2078 | 581 | 1,365 | -784 | 7.7 | 18.1 | -10.4 |
| 2079 | 578 | 1,345 | -767 | 7.7 | 18.0 | -10.2 |
| 2080 | 576 | 1,326 | -750 | 7.8 | 17.9 | -10.1 |
| 2081 | 574 | 1,308 | -734 | 7.8 | 17.8 | -10.0 |
| 2082 | 572 | 1,291 | -719 | 7.8 | 17.7 | -9.9 |
| 2083 | 570 | 1,275 | -705 | 7.9 | 17.6 | -9.7 |
| 2084 | 569 | 1,260 | -691 | 7.9 | 17.6 | -9.6 |
| 2085 | 567 | 1,246 | -678 | 8.0 | 17.5 | -9.5 |
| 2086 | 566 | 1,232 | -666 | 8.0 | 17.4 | -9.4 |
| 2087 | 566 | 1,219 | -654 | 8.1 | 17.4 | -9.3 |
| 2088 | 565 | 1,207 | -642 | 8.1 | 17.4 | -9.2 |
| 2089 | 565 | 1,196 | -631 | 8.2 | 17.3 | -9.1 |
| 2090 | 564 | 1,184 | -620 | 8.2 | 17.3 | -9.1 |
| 2091 | 564 | 1,173 | -610 | 8.3 | 17.3 | -9.0 |
| 2092 | 564 | 1,163 | -599 | 8.4 | 17.3 | -8.9 |
| 2093 | 564 | 1,152 | -589 | 8.4 | 17.2 | -8.8 |
| 2094 | 564 | 1,142 | -578 | 8.5 | 17.2 | -8.7 |
| 2095 | 564 | 1,131 | -567 | 8.5 | 17.2 | -8.6 |
| 2096 | 563 | 1,120 | -556 | 8.6 | 17.1 | -8.5 |
| 2097 | 563 | 1,109 | -545 | 8.7 | 17.1 | -8.4 |
| 2098 | 563 | 1,098 | -534 | 8.7 | 17.0 | -8.3 |
| 2099 | 563 | 1,086 | -523 | 8.8 | 16.9 | -8.2 |
| 2100 | 563 | 1,075 | -512 | 8.8 | 16.9 | -8.0 |