

State of Utah Accuracy Analysis

Demographic and Economic Projections

March 2008



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**Demographic and Economic Analysis
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State of Utah**

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Population Projections Accuracy Analysis

Introduction

For more than three decades the Utah Process Economic and Demographic (UPED) model has been used to make sixteen series of baseline projections. Baseline projections have differed in the years projected; the frequency in number of years (i.e., annual, biannual, or five year increments); the institutions, persons, and sources involved in making the projections, and the source and quality of input data. The accuracy of each series has been determined by changing economic conditions and trends during the projection interval relative to the assumption made about the future at the time of the projections. This paper examines the accuracy of all UPED baseline projections to determine the credibility and applicability of population projections.

The Governor's Office of Planning and Budget (GOPB) releases long-term population projections biennially. The primary purpose of these projections is to improve decision making and planning coordination in state government by providing accurate population projections. Decision makers rely on projection information in order to make educated decisions in allocating scarce resources and planning for the future. In addition to government, many private organizations rely on projected trends in deciding future investments.

Because of the complexity of the model, and because of concerns about the ongoing maintenance of such a complex system, in 2001 GOPB created a UPED Steering Committee to review the status of the UPED model and to make recommendations about possible alternatives to the model. After considering all the issues related to updating the UPED model, the Steering Committee recommended that GOPB switch to the REMI model for the production of the official long-term projections for the State of Utah.

The methodology for calculating the performance of baseline projections will first be explained. Accuracy results are then given along with examination of historical trends and regional differences. Observations of the trends seen in projections are presented. Evaluation of past projections and future implications will then be explored.

Methodology

Projection series were identified that began in each of the following years: 1967, 1972, 1975, 1979, 1980, 1984, 1986, 1987, 1988, 1990, 1992, 1994, 1997, 2000 and 2002. In some series the same baseline projection is used but with updated data (i.e., the 1980 series is based on the 1979 baseline but uses updated data to better reflect the current trends occurring in 1980). The accuracy of each baseline was calculated at the state, multi-county district (MCD), and county level for projections of total population, net migration, births, and deaths.

The absolute value percentage error (APE) was calculated to show how accurate a projection series was in predicting the population for a specific year. The APE was calculated for each year in the baseline projection series. The APEs were derived by the following formula:

$$\frac{|A_t - P_t|}{A_t}$$

where A is the actual population in year t and P is the projected population for year t. The actual population is the Census count in Census years and the Utah Population Estimates Committee (UPEC) estimates in the intercensal years. APEs for a given year can then be compared to determine which projection series most accurately predicted the actual population for that year. In this report, only the APE's for 2000 and 2007 are compared.

For all series the mean APE, or MAPE, was calculated to determine the accuracy of the entire projection series, versus its accuracy in projecting one specific year. APEs are found for each projected year of a series and the mean is presented as an overall evaluation of the projection series.

In addition to calculating the accuracy of population projections, APEs and MAPEs were also calculated for the components of population change: net migration, births, and deaths. Often these components can show where changes occurred between the launch year and the projection year when compared with actual outcomes. Generally, net migration is the most volatile component of change and thus the most difficult to project, whereas births and deaths remain relatively stable and are projected with more accuracy.

For each geography, a brief summary is given to highlight the key findings for the area's projections. The first graph shows the actual components of population change for the particular geography, broken down into births, deaths, and net migration. The next four graphs show the actual population, births, deaths, and net migration compared to their respective series of projections. These are most useful for illustrating trends or unexpected changes in the demographics of an area which have affected the accuracy of projections. The MAPEs for each category (population, net migration, births, and deaths) are then presented, followed by the 2000 and 2007 APEs. The red lines on the APE and MAPE charts are the averages of the APEs or MAPEs in that category, showing the overall accuracy of the projections for the geography. For instance, the average MAPE for the population of the State of Utah is just under 5.0%. This means that population projections overall for Utah were within 5.0% of the actual populations.

Factors Contributing to Error

Certain factors may contribute to error outside of the projection model. The quality of the data used does have effects on the accuracy of the projections. Population estimates by the Census Bureau and UPEC are subject to error which can increase or decrease the amount of error obtained through accuracy analysis. These areas are topics for future research to determine their absolute effects on error percentages

Observations

For users of projection data the following observations should be considered:

1. Utah's projection history includes periods of both over and under projecting.
2. Projections in any given period are significantly impacted by the most recent trends.
3. Generally, smaller populations lead to less accurate projections and larger populations lead to more accurate projections.
4. Generally, the further the baseline is from the projection year the less accurate the projection will be.
5. Utah's projection efforts have consistently had the largest errors in the boom-bust regions and the rapidly growing areas.
6. Projections may produce very accurate forecasts while attributing the wrong causes to explain trends.
7. Baseline series are intended to project current trends into the future.

Conclusions & Implications

Examining the accuracy of past baseline projection series supports the efforts of the Governor's Office of Planning and Budget to continually improve its population projections. This comprehensive analysis provides a framework for evaluating the reliability of past projections and finding areas of improvement. While the accuracy of these projections is important, no measure of accuracy can indicate the importance of these projections in the planning and decision making process. Users of projection data should be aware of the errors associated with projections and consider these errors in the planning process. Further efforts to increase the overall accuracy of these projections will increase the efficiency of this tool used by planners and decision makers. Past projections have done what they were intended to do: project the current trends.

State of Utah

State of Utah

The 1984 baseline was the most accurate projection of the 2000 population with an absolute percent error of 0.2%. The 1979, 1980, and 1997 baselines were also close, all within a 2.7% error. The 1990 baseline was the least accurate projection of the 2000 population with an absolute percent error of 13.3%. The 1967 baseline, the oldest projection of the 2000 population, had an absolute percent error of 8.2%. The average absolute percent error of all baselines for the 2000 population projection was 6.0%.

Overall, the 1997 baseline was the most accurate population projection with a mean absolute percent error of 2.4%. The 1990 baseline was the least accurate population projection with a mean absolute percent error of 7.4%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 3.4%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 3.3%, compared to 5.2% and 95.1% for births and net migration, respectively.

Figure 1.1
Population Components

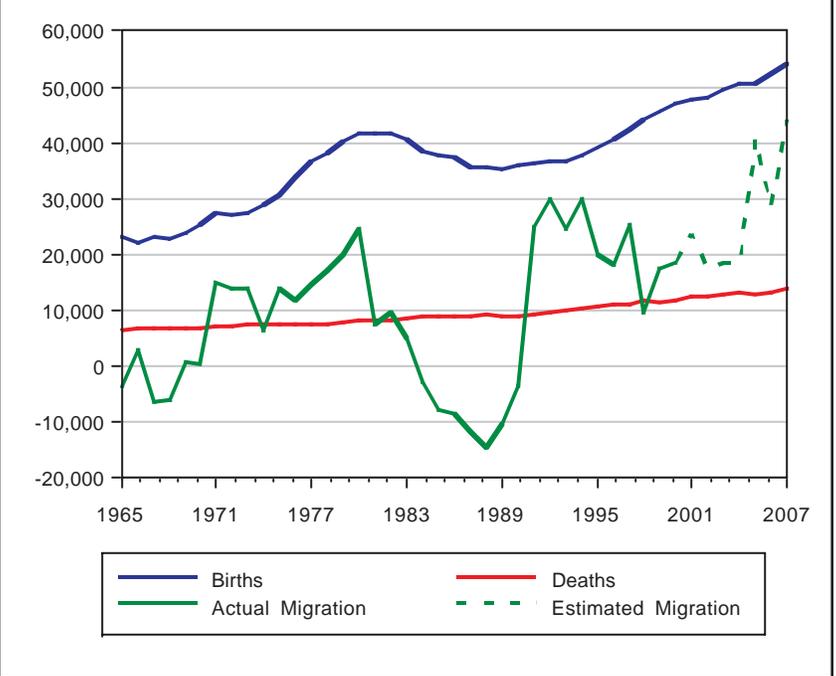
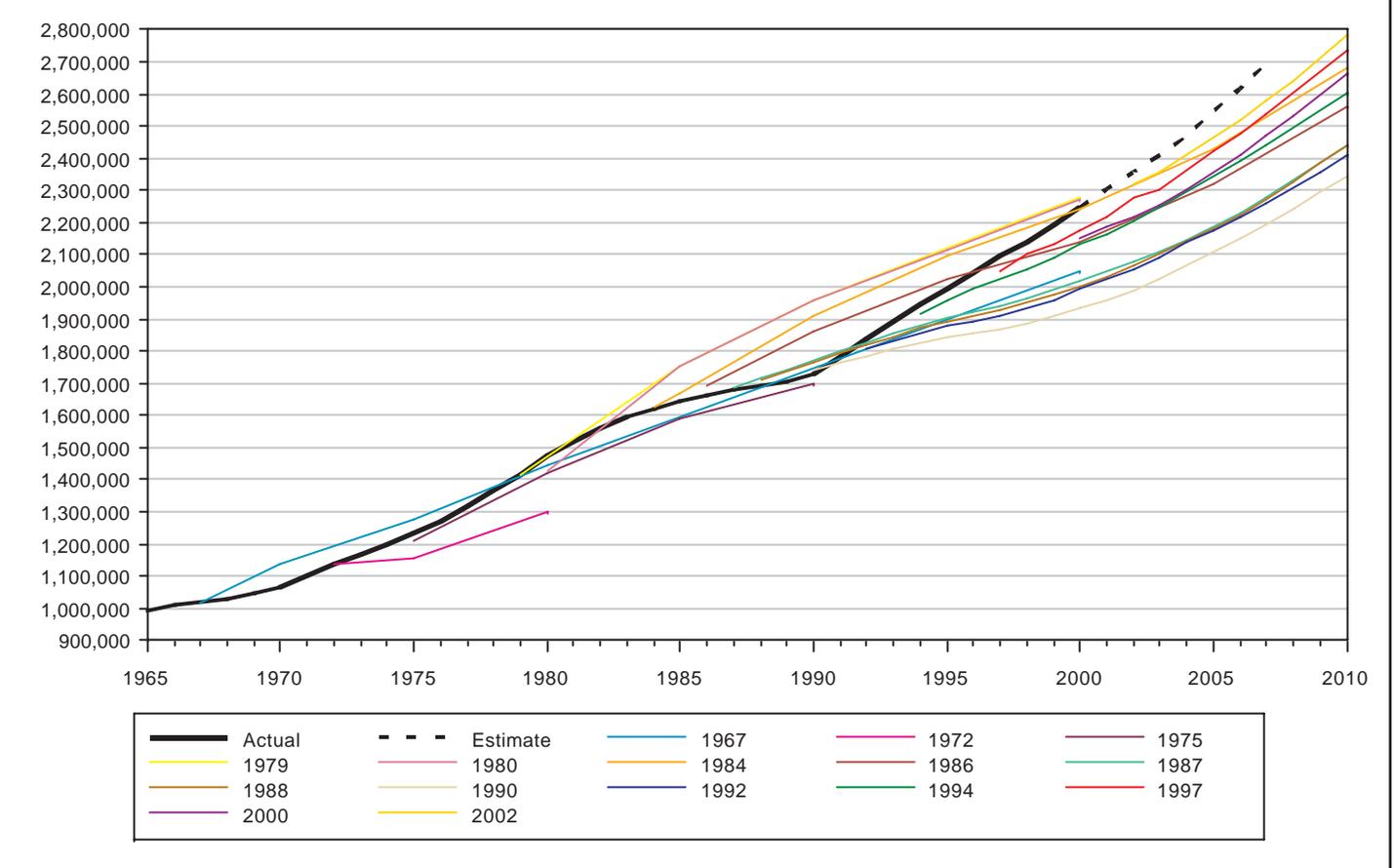
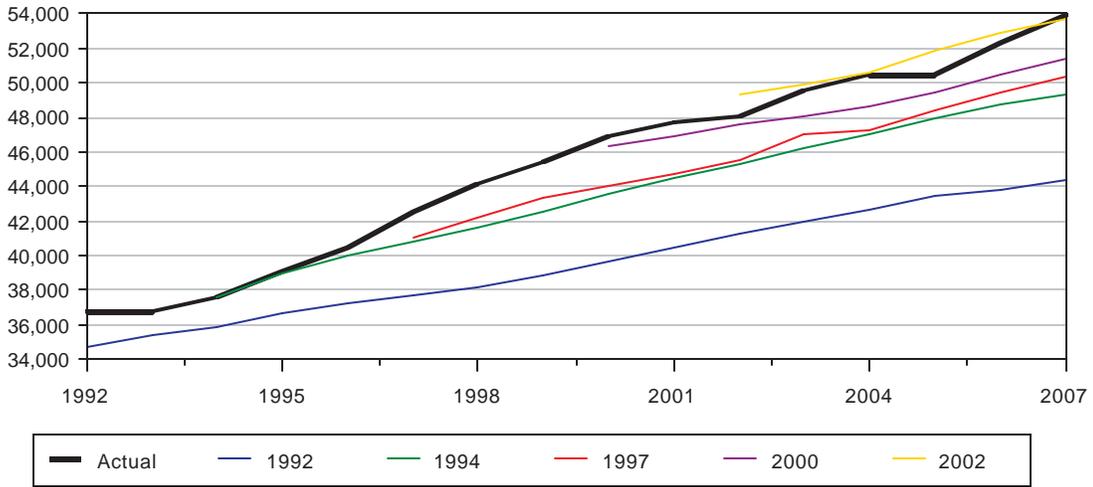


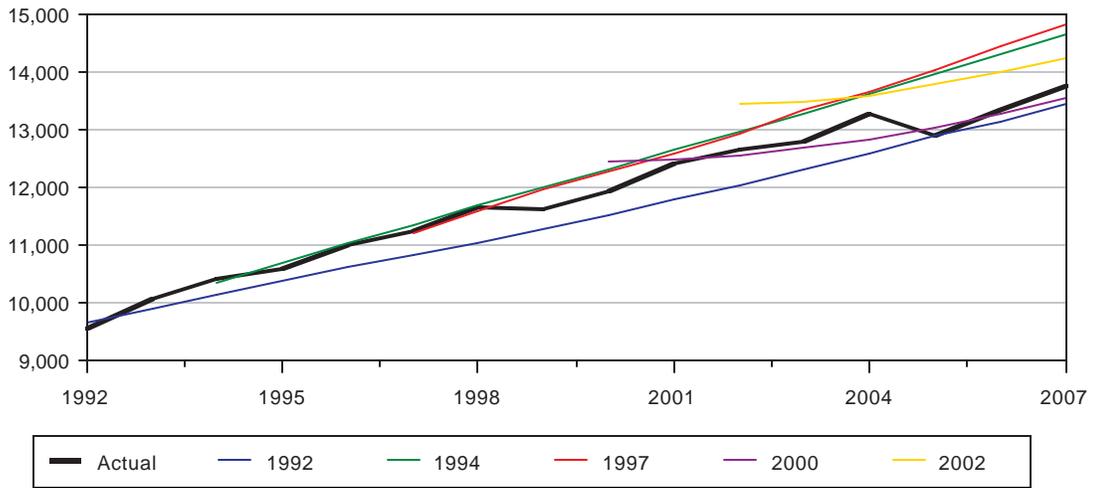
Figure 2.2
Population Projections



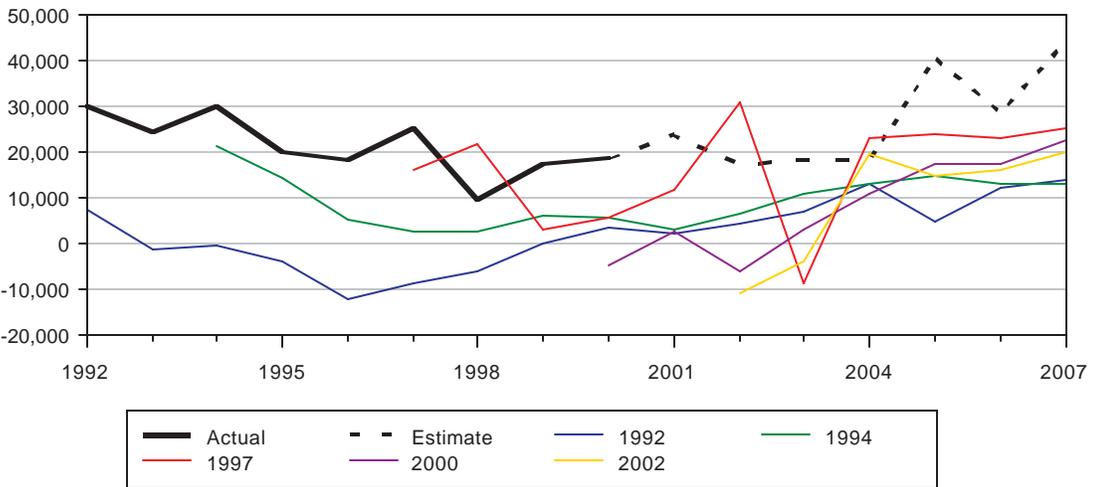
**Figure 1.3
Birth Projections**



**Figure 1.4
Death Projections**



**Figure 1.5
Migration Projections**



Population

Net Migration

Figure 1.6

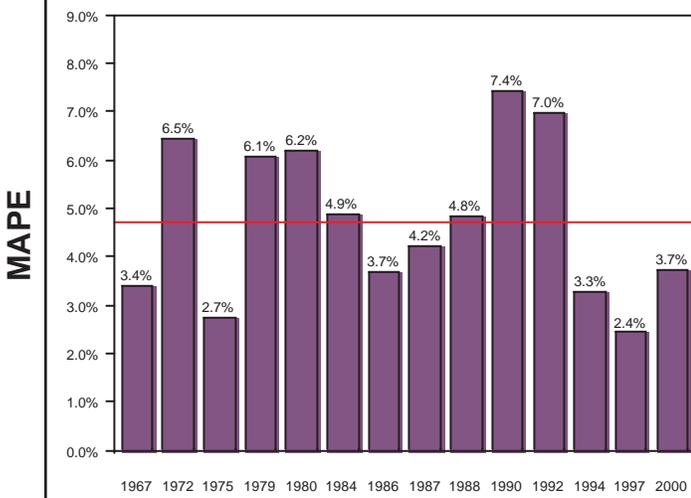


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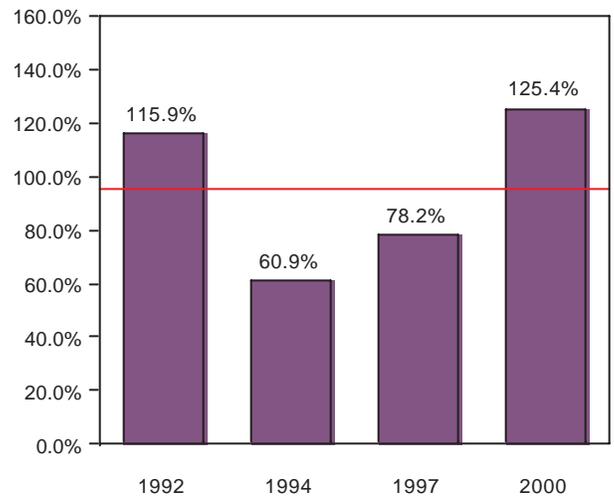


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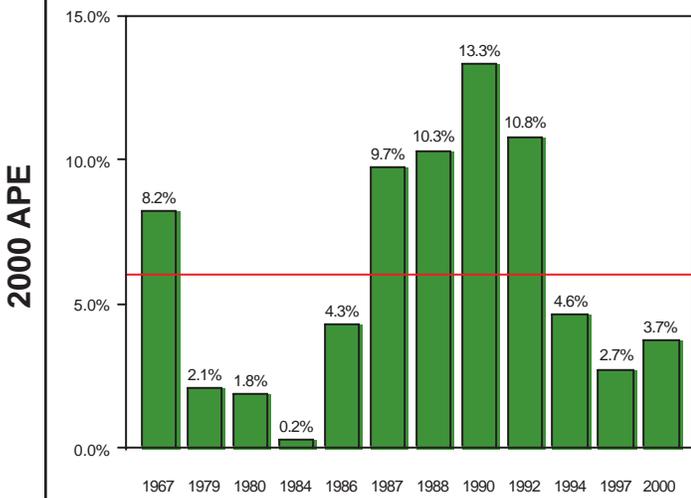


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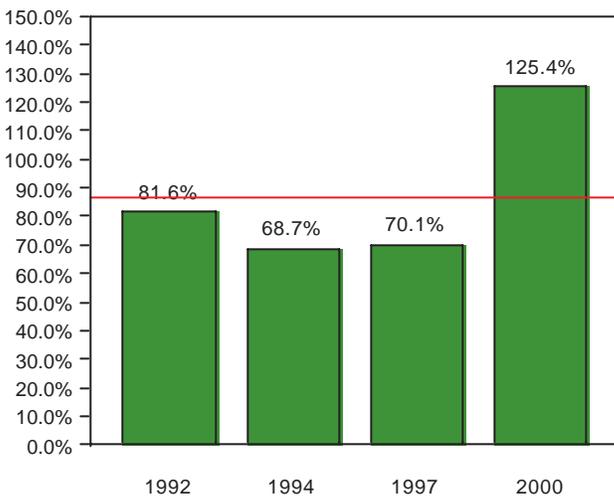


Figure 1.8

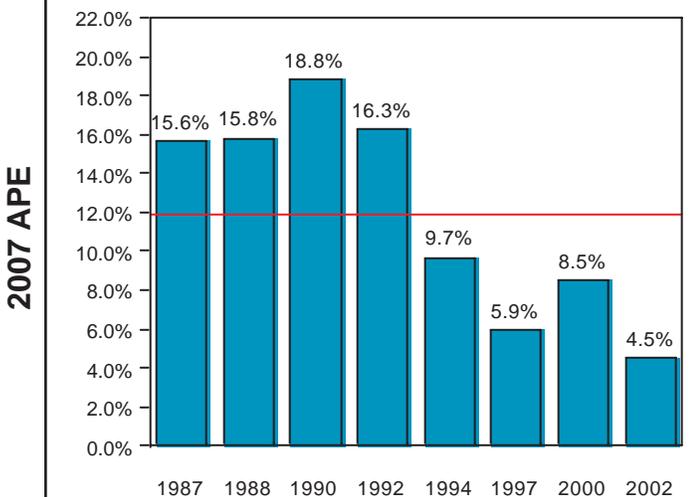
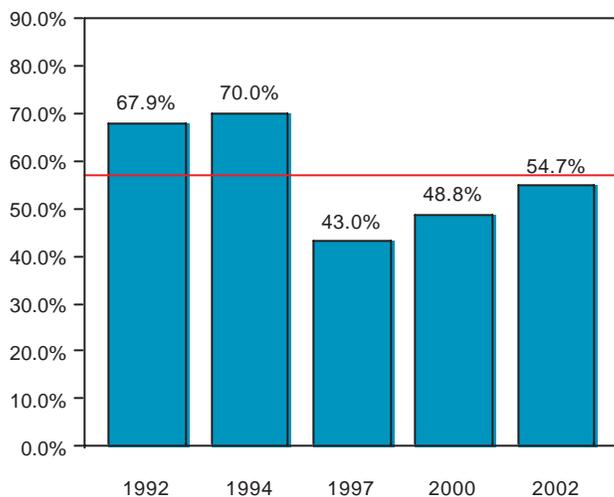


Figure 1.11



Births

Deaths

Figure 1.12

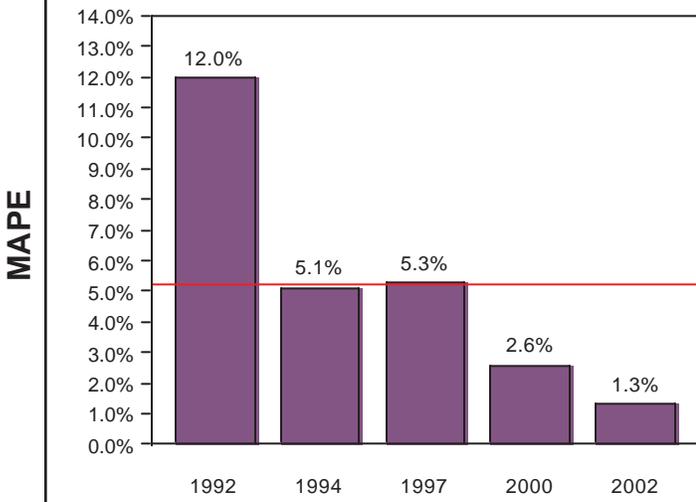


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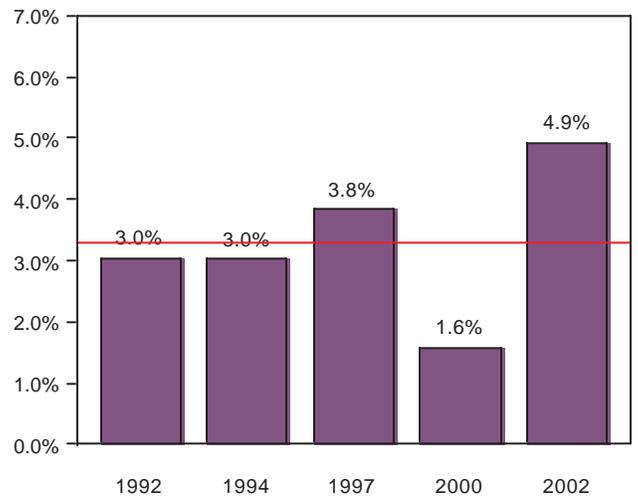


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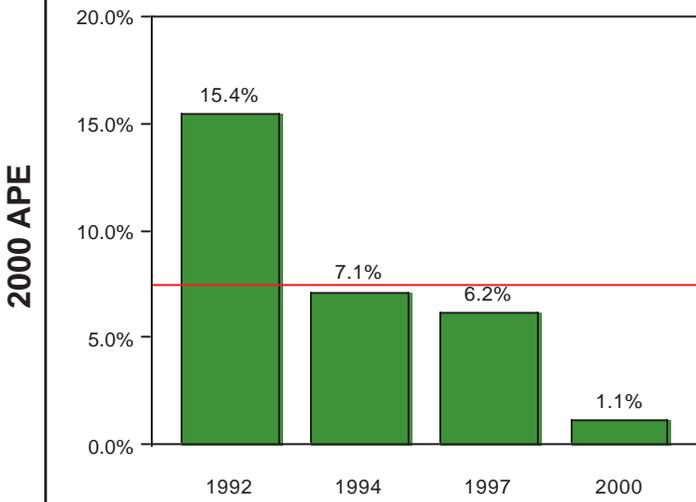


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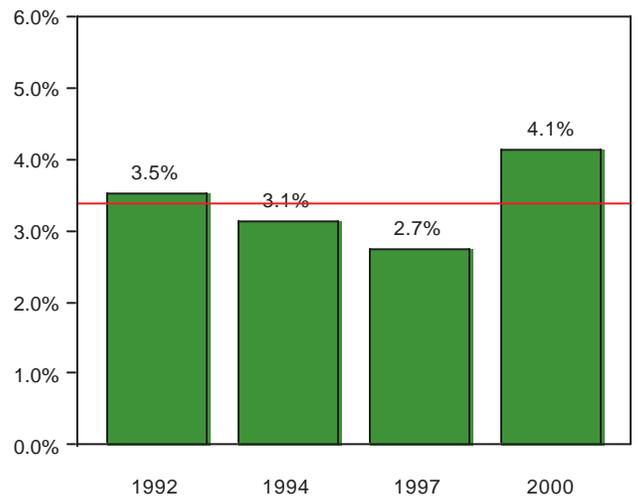


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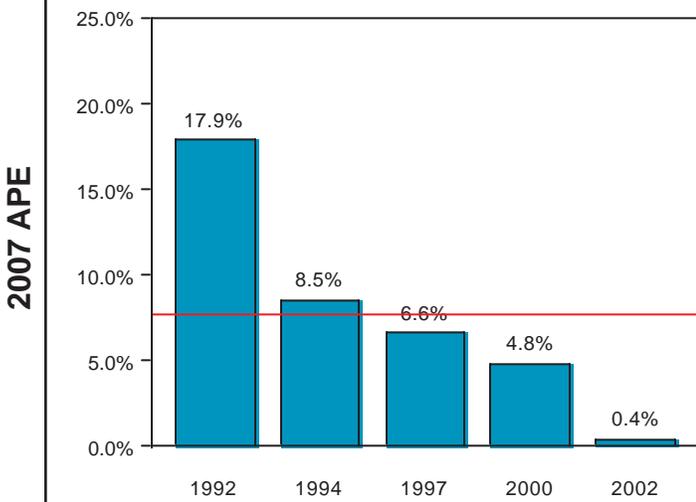
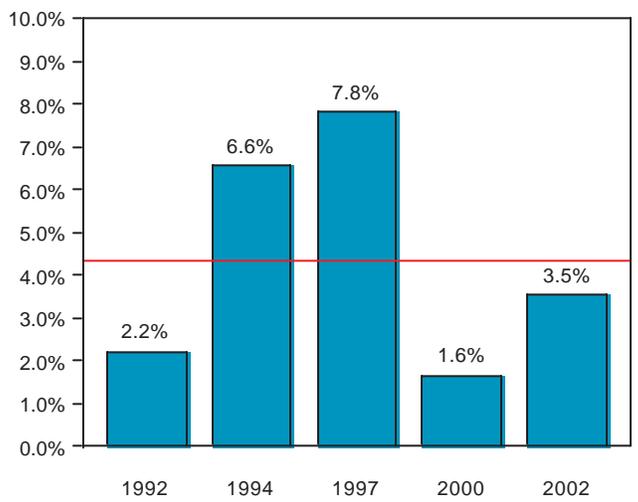


Figure 1.17



Multi-County Districts

Bear River MCD

The Bear River Multi-County District includes Box Elder, Cache, and Rich counties. The 1986 baseline was the most accurate projection of the 2000 population with an absolute percent error of 0.3%. The 1984, 1997, and 2000 baselines were also close, all within a 2.8% error. The 1992 baseline was the least accurate projection of the 2000 population with an absolute percent error of 13.8%. The 1967 baseline, the oldest projection of the 2000 population, had an absolute percent error of 9.8%. The average absolute percent error of all baselines for the 2000 population projection was 6.3%.

Overall, the 1997 baseline was the most accurate population projection with a mean absolute percent error of 1.4%. The 1979 baseline was the least accurate population projection with a mean absolute percent error of 11.5%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 7.9%.

Of the components of population change, projections for births were most accurate with an overall mean absolute percent error for all baselines of 7.8%, compared to 8.4% and 199.8% for deaths and net migration, respectively.

Figure 2.1
Population Components

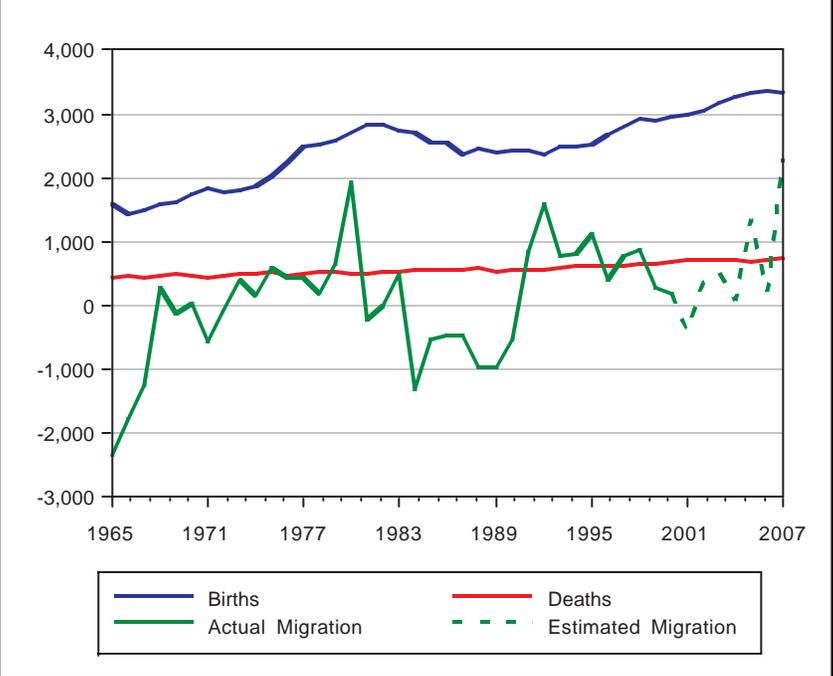
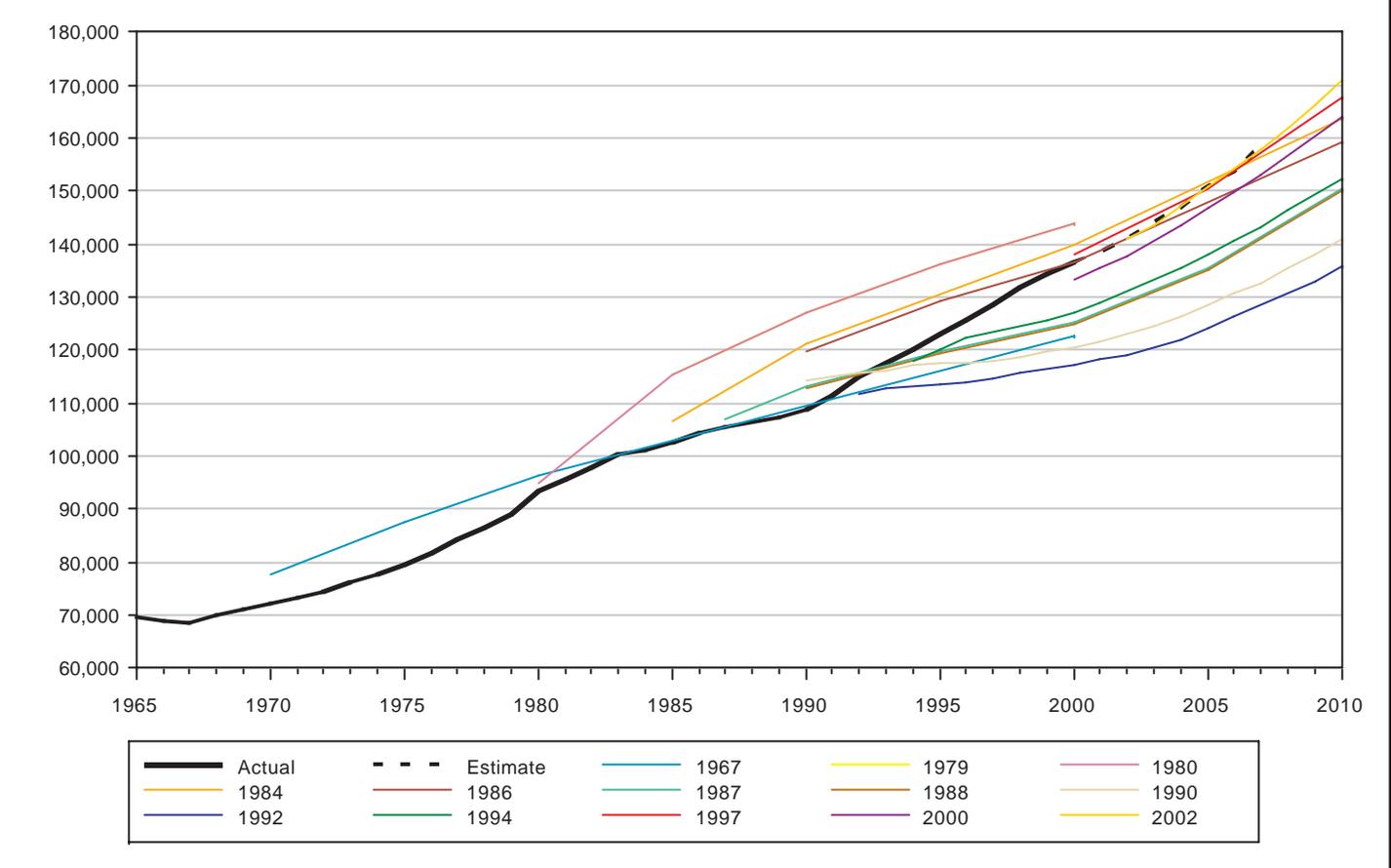
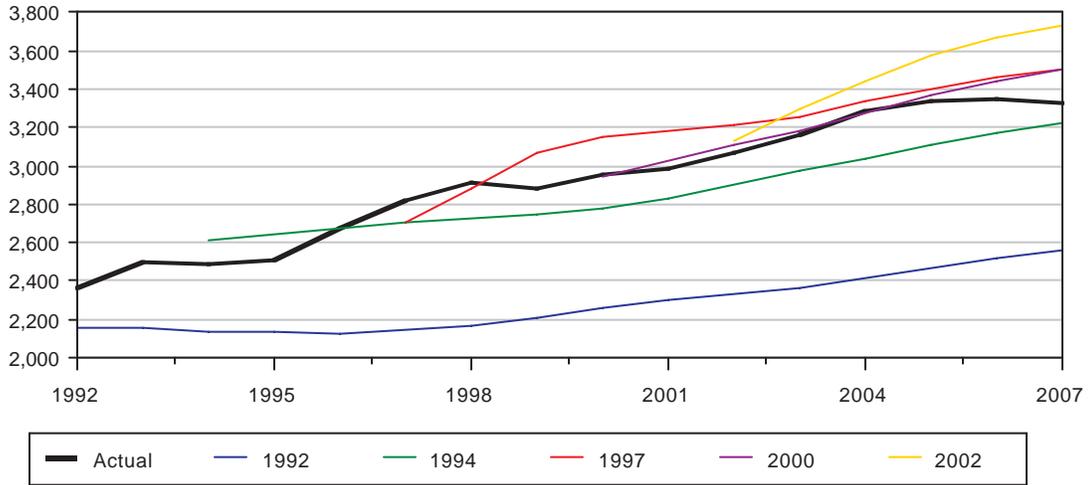


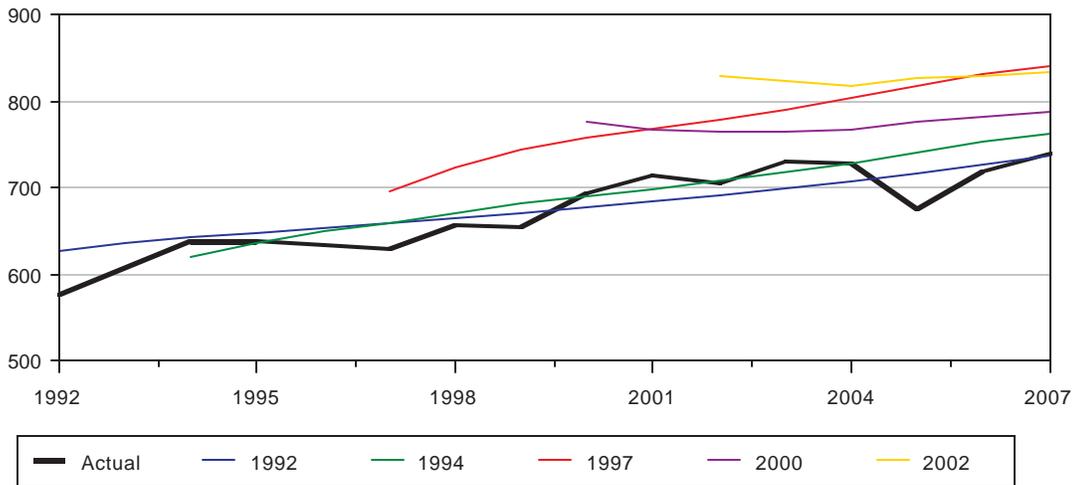
Figure 2.2
Population Projections



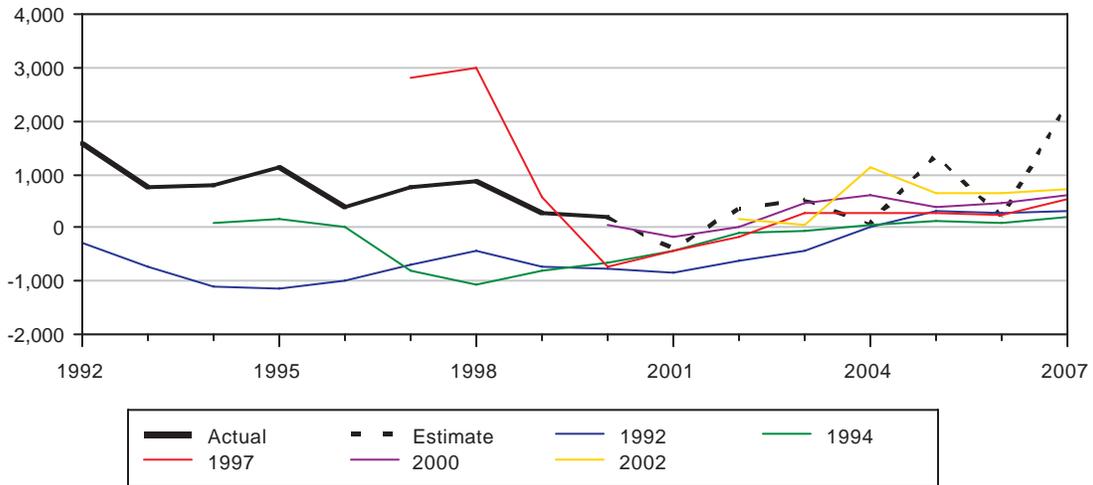
**Figure 2.3
Birth Projections**



**Figure 2.4
Death Projections**



**Figure 2.5
Migration Projections**



Population

Net Migration

Figure 2.6

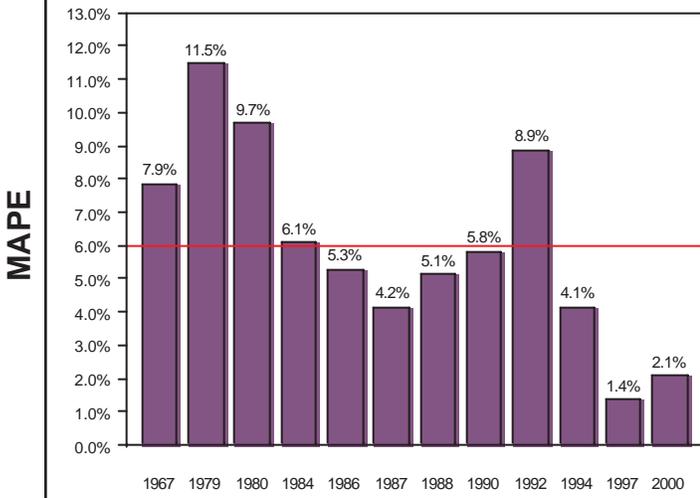


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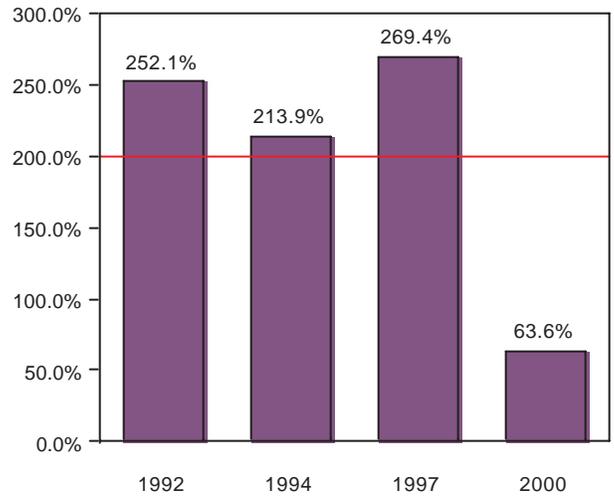


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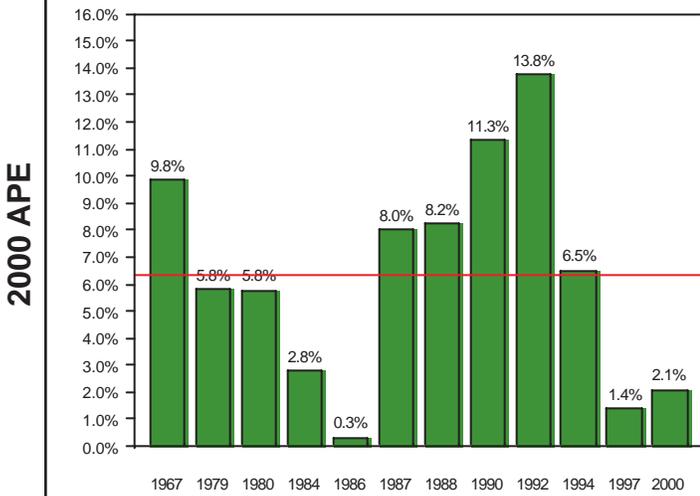


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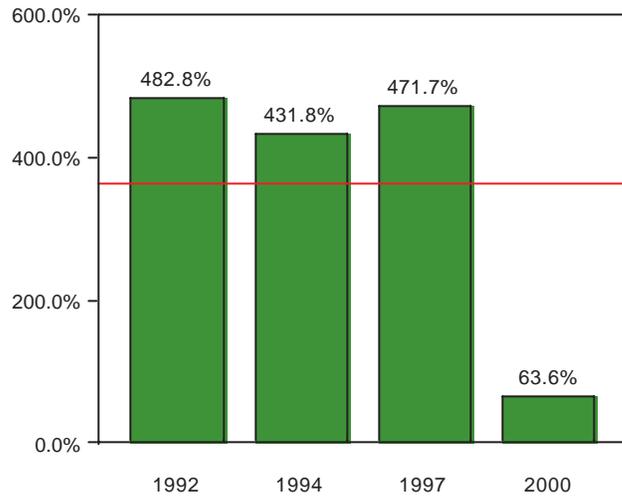


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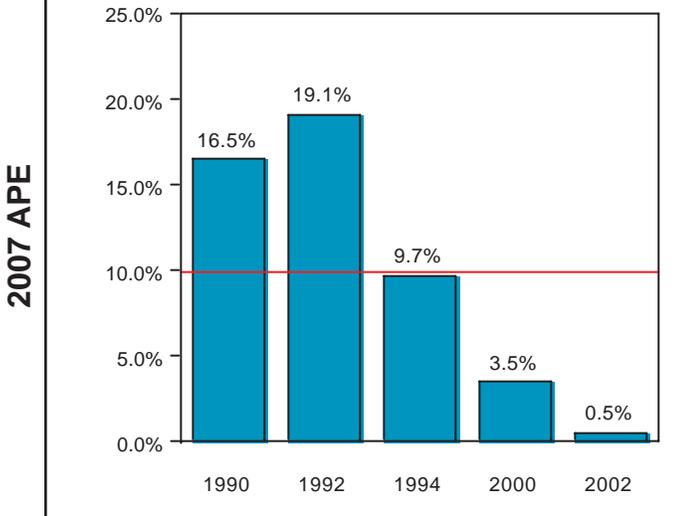
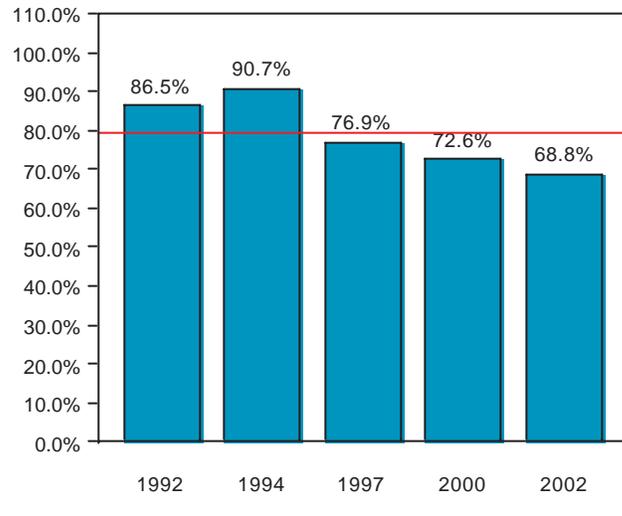


Figure 2.11



Births

Deaths

Figure 2.12

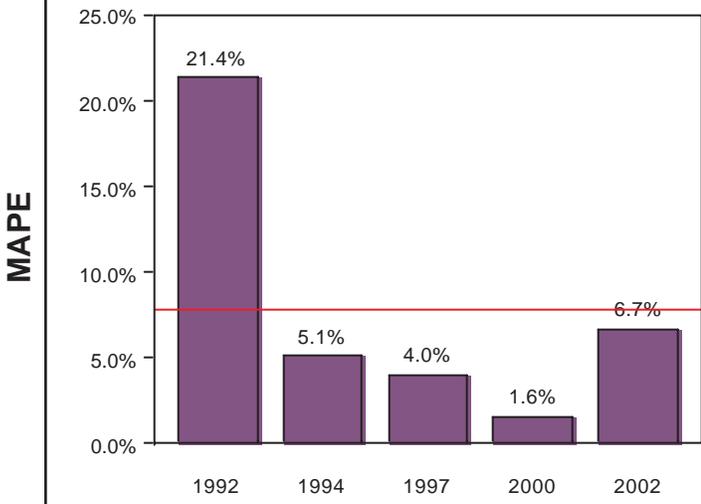


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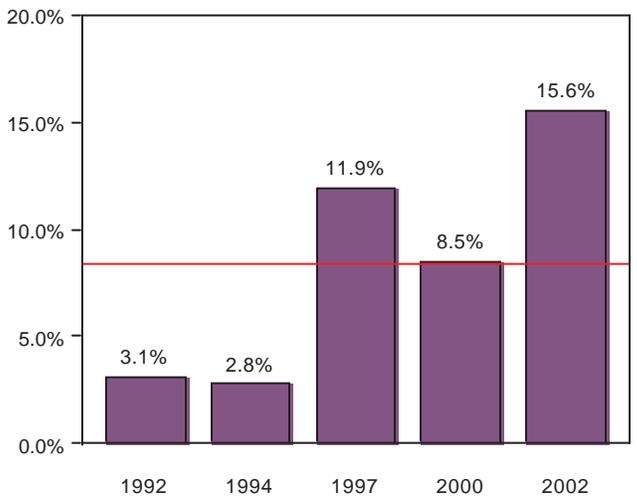


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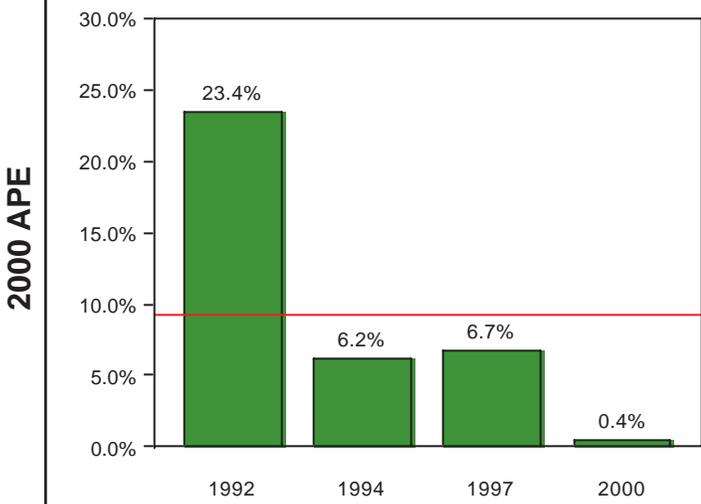


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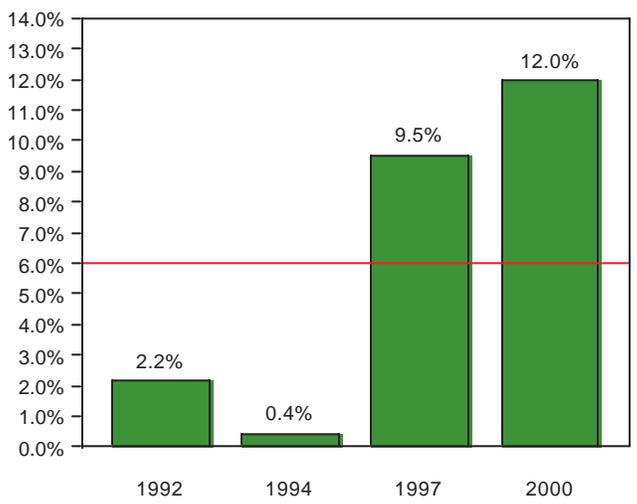


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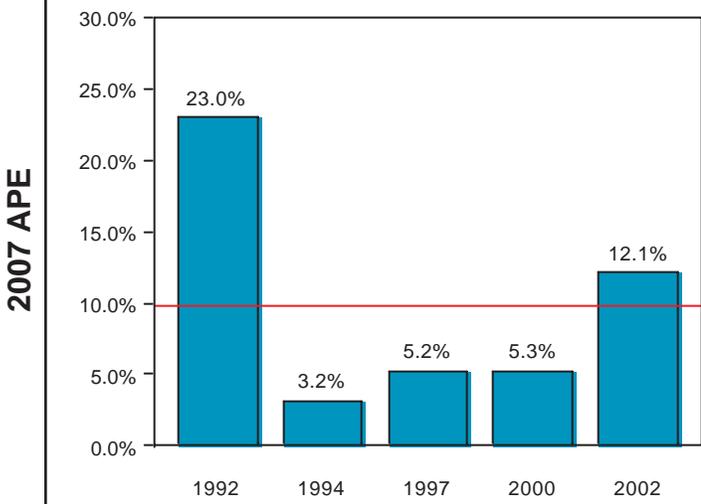
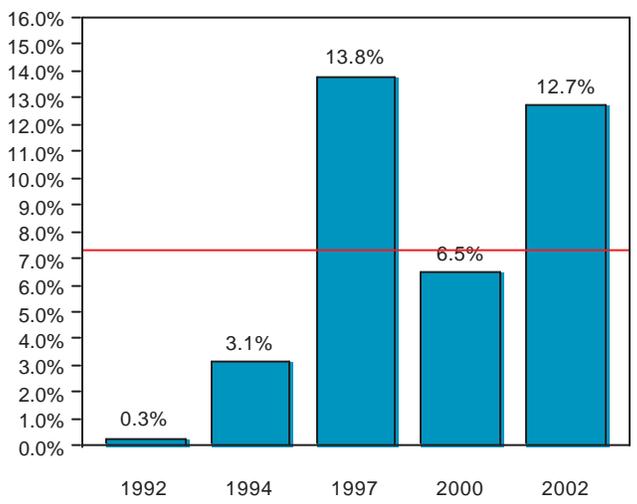


Figure 2.17



Central MCD

The Central Multi-County District includes Juab, Millard, Piute, Sanpete, Sevier, and Wayne counties. The 2000 baseline was the most accurate projection of the 2000 population with an absolute percent error of 0.1%. The 1984, 1986, 1994, and 1997 baselines were also close, all within an 8.8% error. The 1967 baseline, the oldest projection of the 2000 population, was the least accurate projection with an absolute percent error of 37.8%. The average absolute percent error of all baselines for the 2000 population projection was 14.1%.

Overall, the 2000 baseline was the most accurate population projection with a mean absolute percent error of 0.1%. The 1979 baseline was the least accurate population projection with a mean absolute percent error of 25.6%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 17.0%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 4.8%, compared to 18.4% and 175.4% for births and net migration, respectively.

Figure 3.1
Population Components

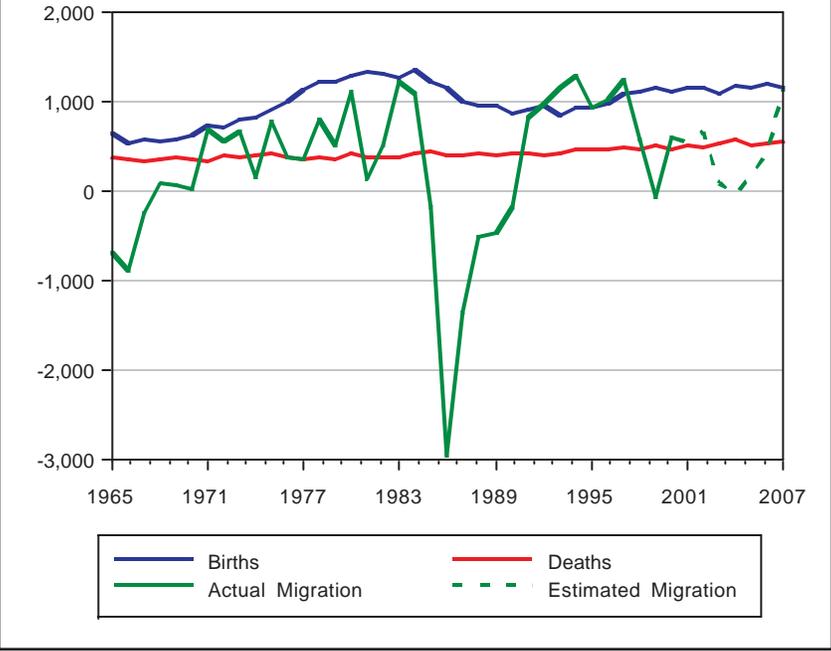
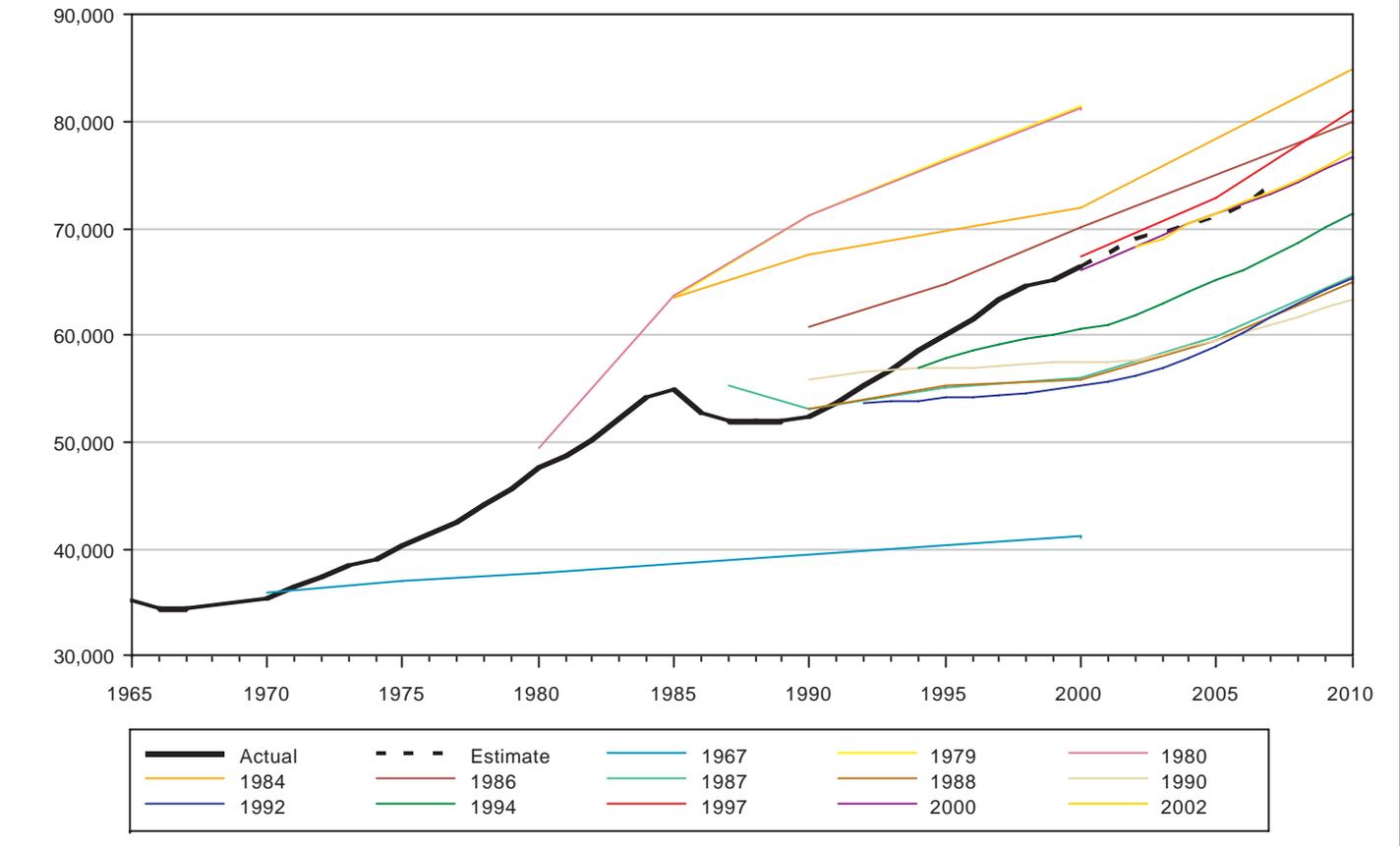
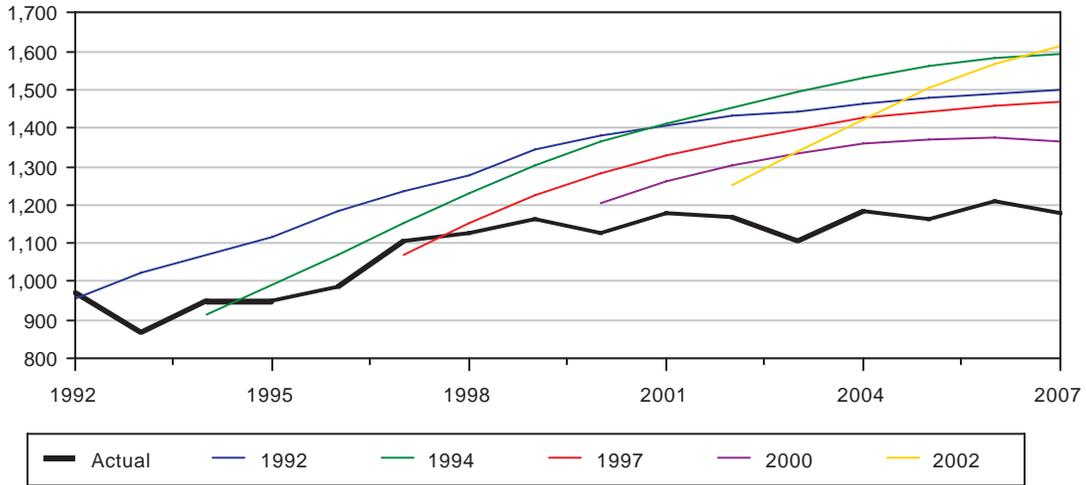


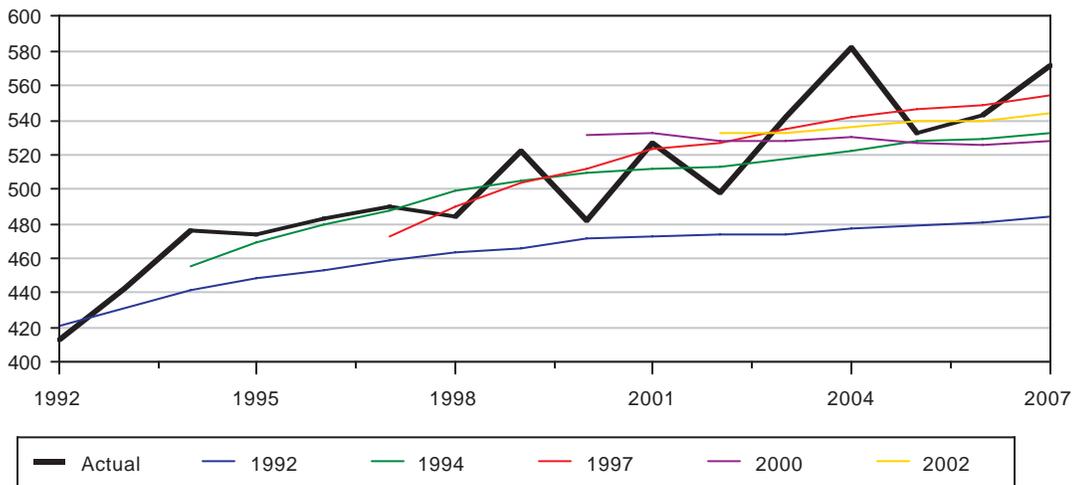
Figure 3.2
Population Projections



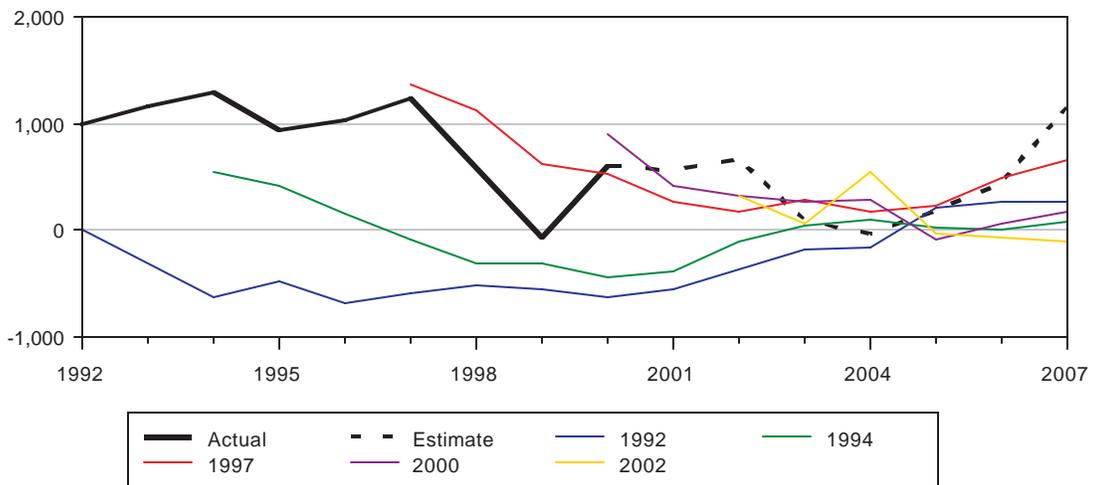
**Figure 3.3
Birth Projections**



**Figure 3.4
Death Projections**



**Figure 3.5
Migration Projections**



Population

Net Migration

Figure 3.6

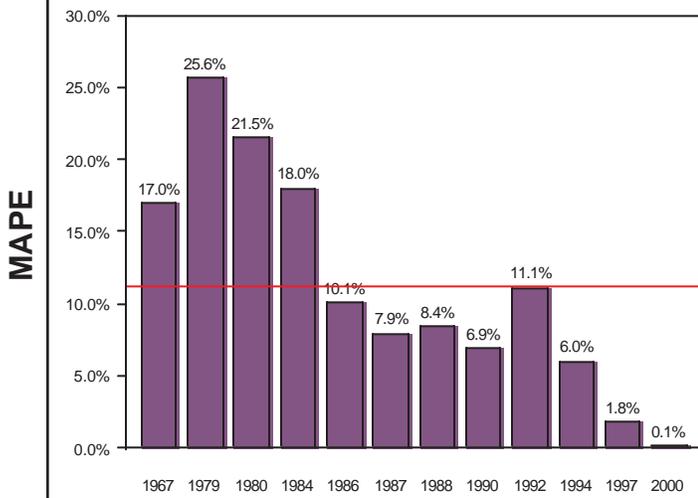


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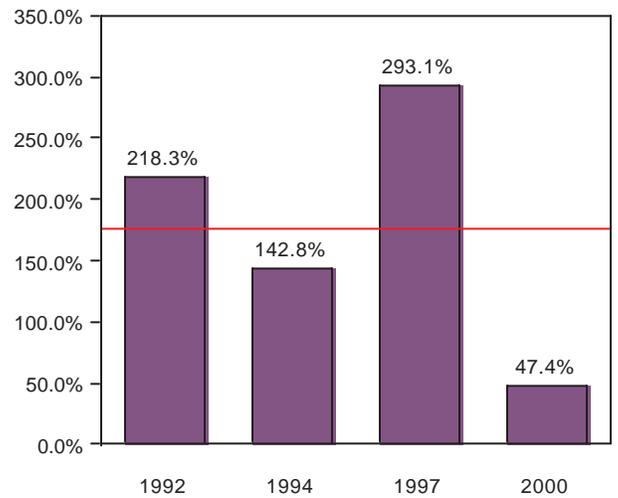


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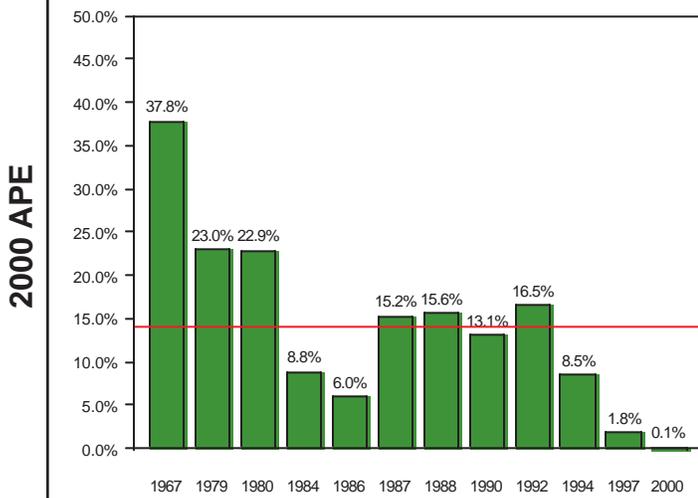


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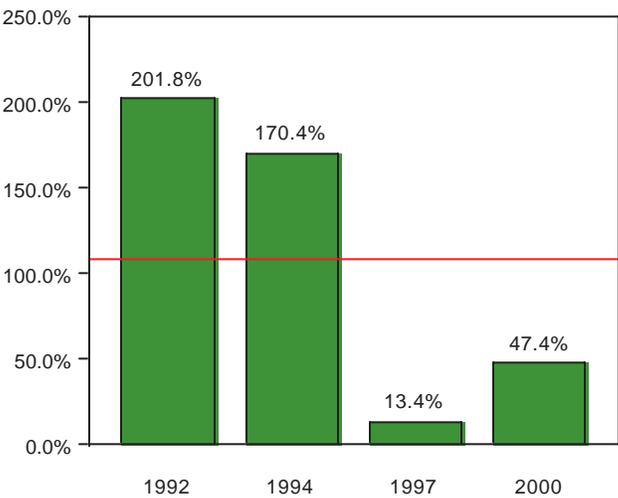


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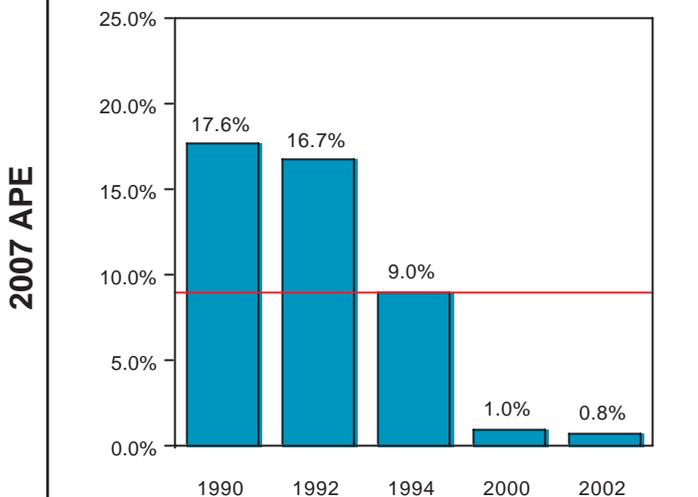
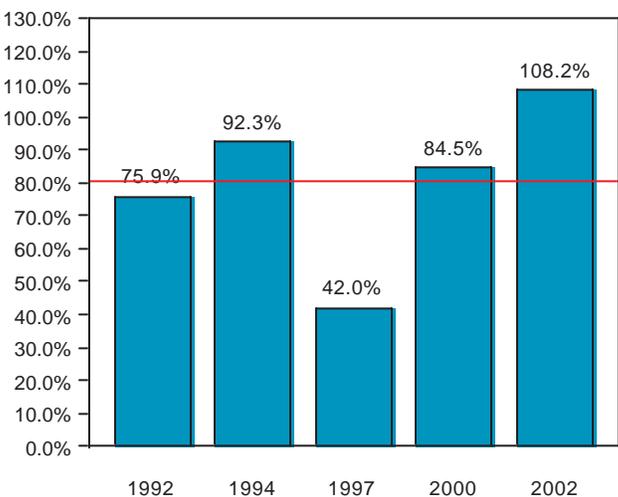


Figure 3.11



Births

Deaths

Figure 3.12

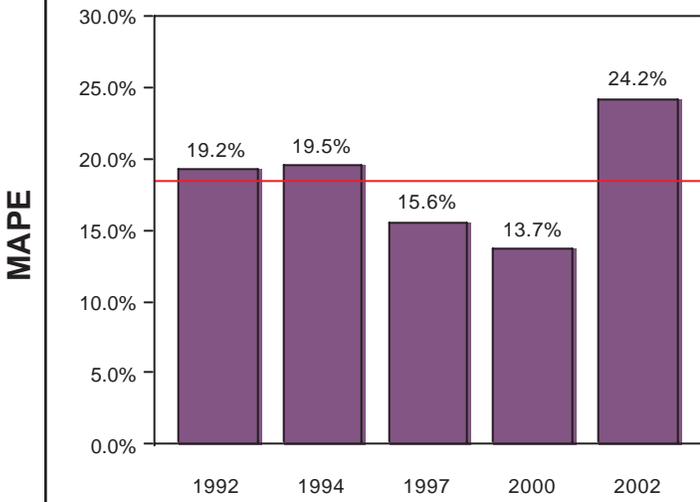


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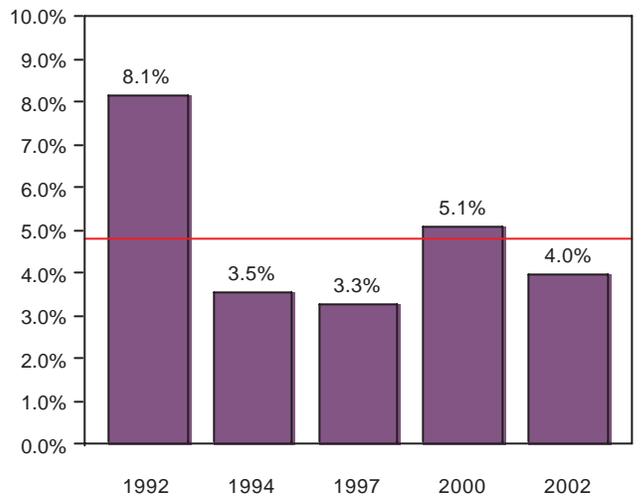


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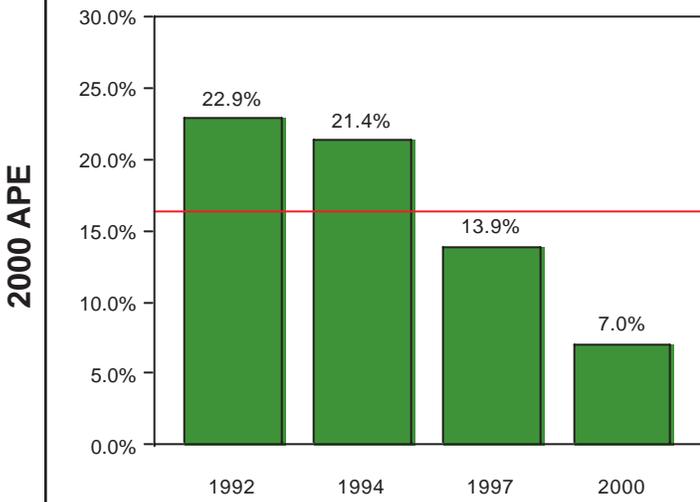


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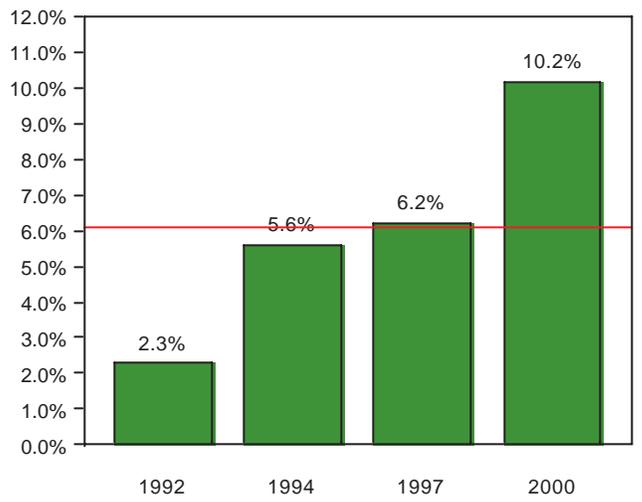


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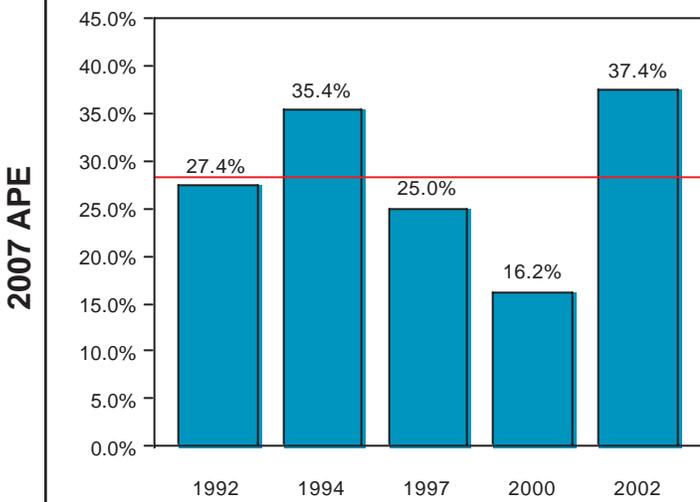
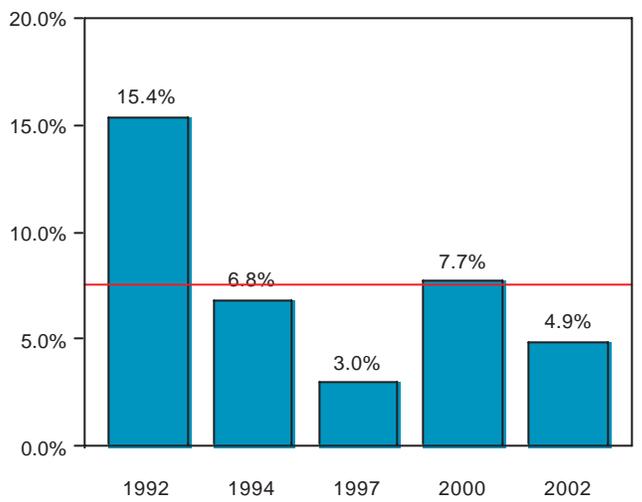


Figure 3.17



Mountainland MCD

The Mountainland Multi-County District includes Summit, Utah, and Wasatch counties. The 2000 baseline was the most accurate projection of the 2000 population with an absolute percent error of 2.7%. The 1994 and 1997 baselines were also close, both within an 8.1% error. The 1967 baseline, the oldest projection of the 2000 population, was the least accurate projection with an absolute percent error of 36.7%. The average absolute percent error of all baselines for the 2000 population projection was 17.8%.

Overall, the 2000 baseline was the most accurate population projection with a mean absolute percent error of 2.7%. The 1967 baseline, the oldest projection, was the least accurate projection with a mean absolute percent error of 17.4%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 4.5%, compared to 12.5% and 95.9% for births and net migration, respectively.

Figure 4.1
Population Components

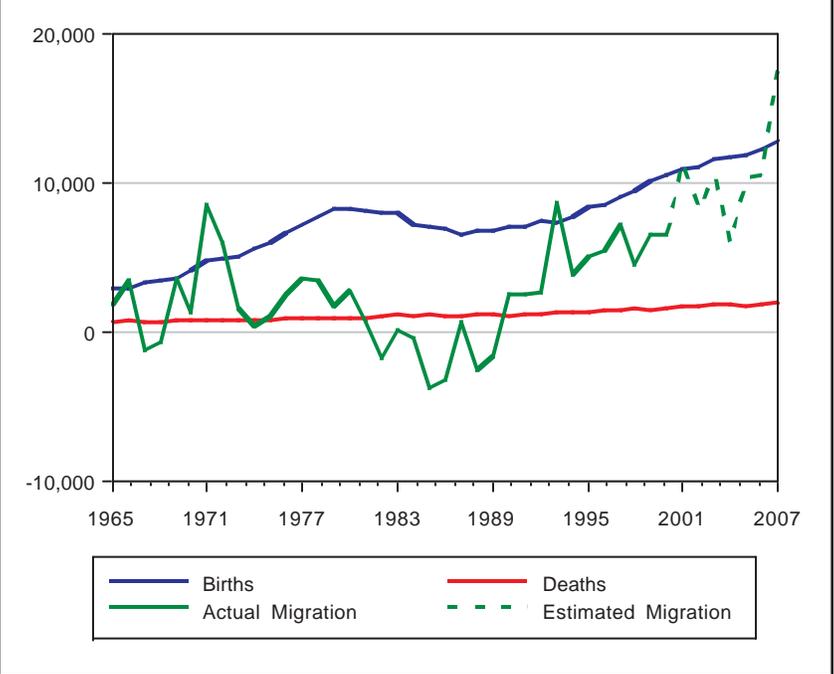
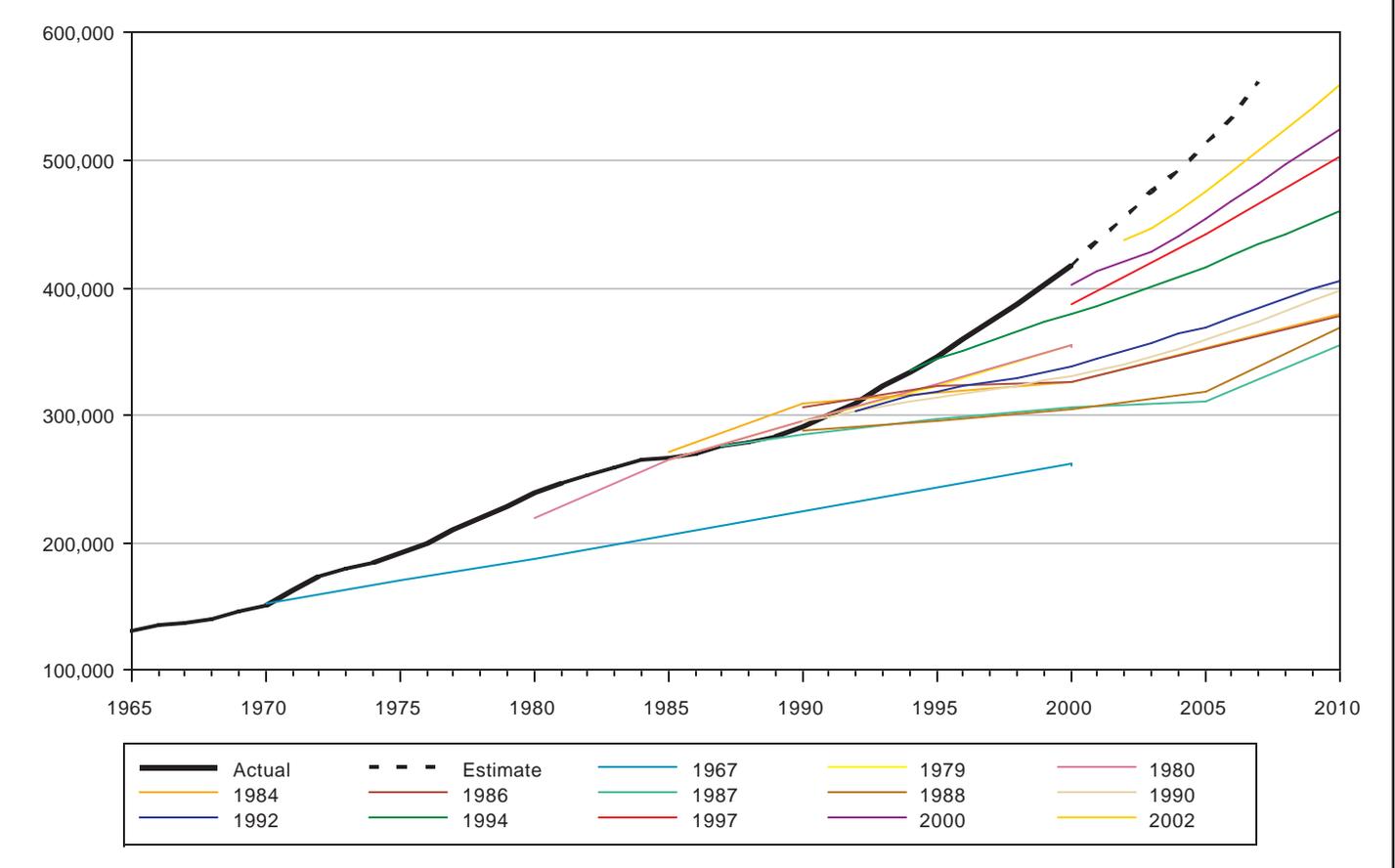
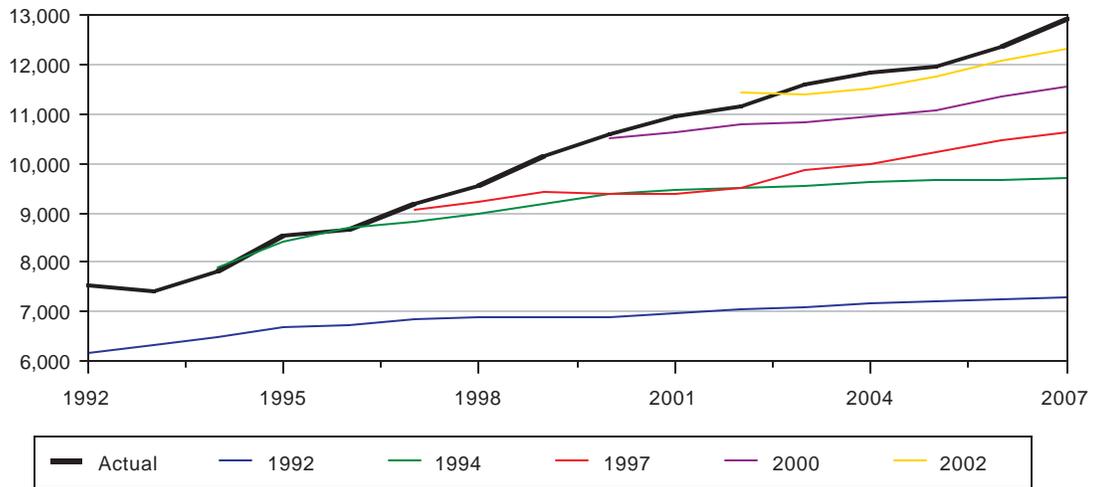


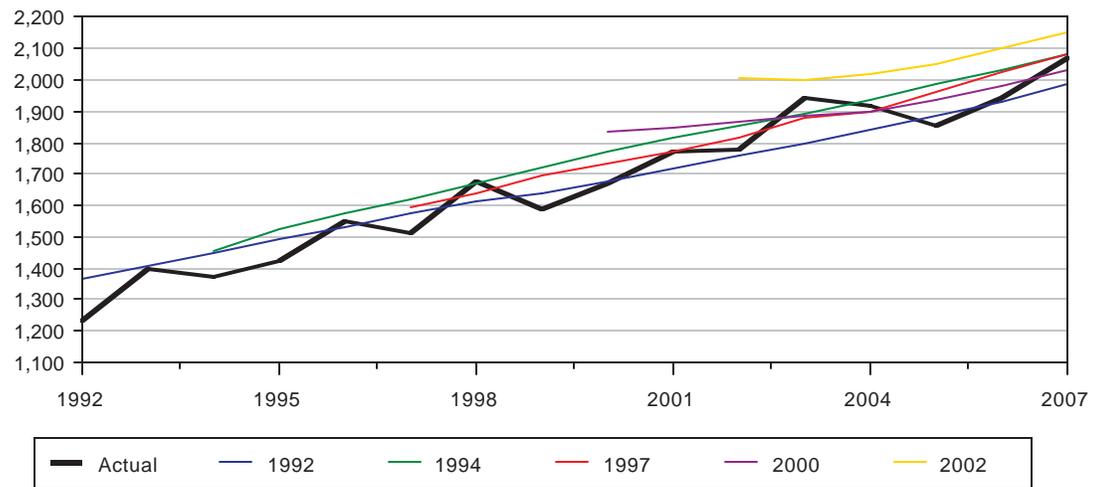
Figure 4.2
Population Projections



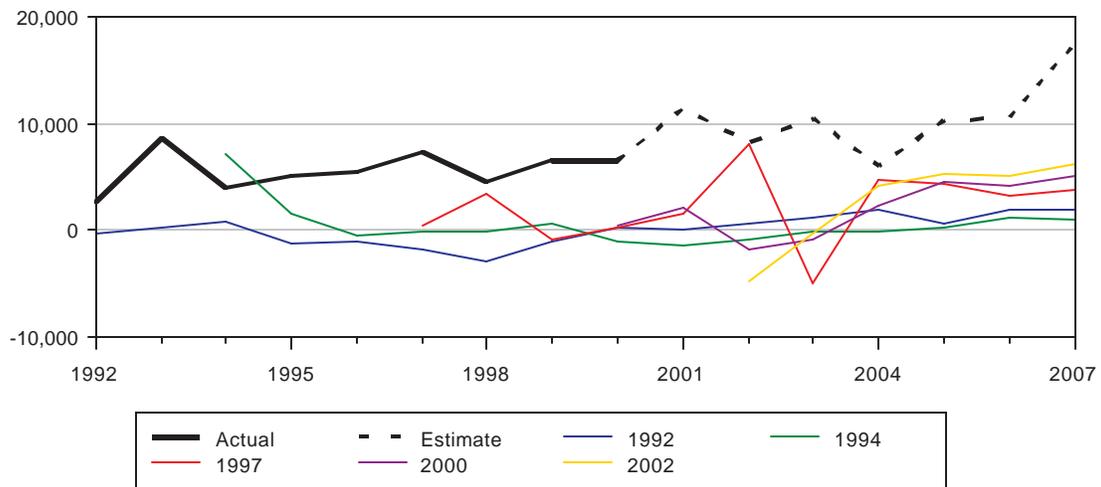
**Figure 4.3
Birth Projections**



**Figure 4.4
Death Projections**



**Figure 4.5
Migration Projections**



Population

Net Migration

Figure 4.6

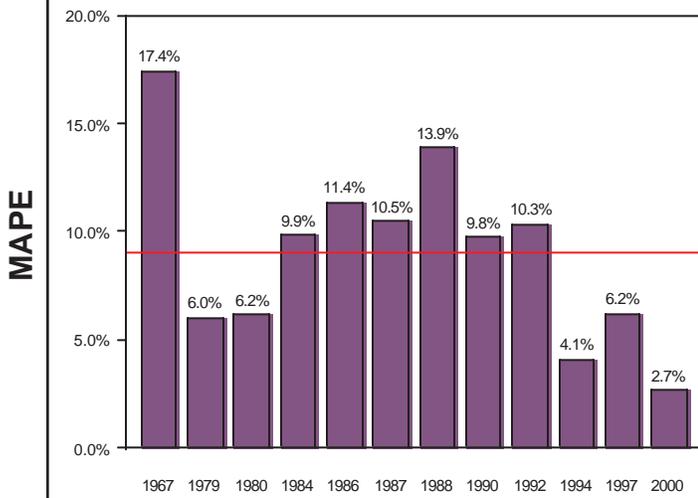


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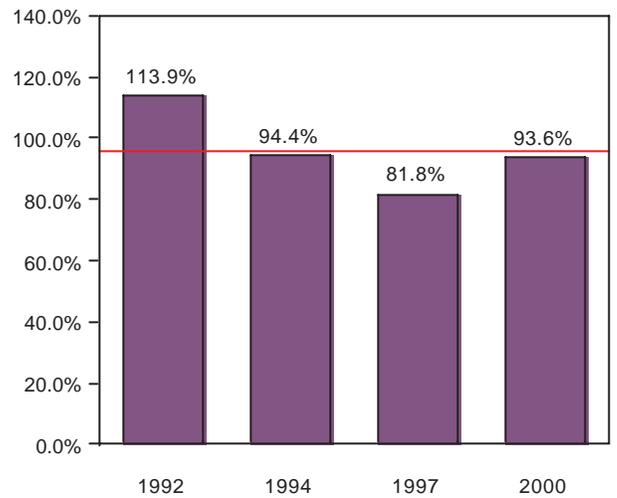


Figure 4.7

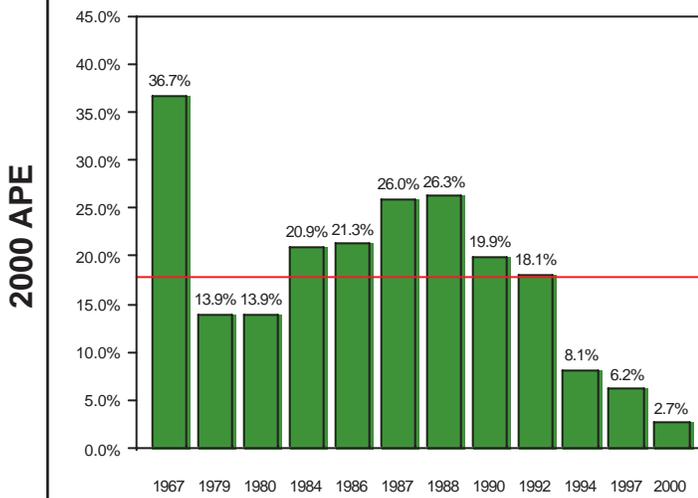


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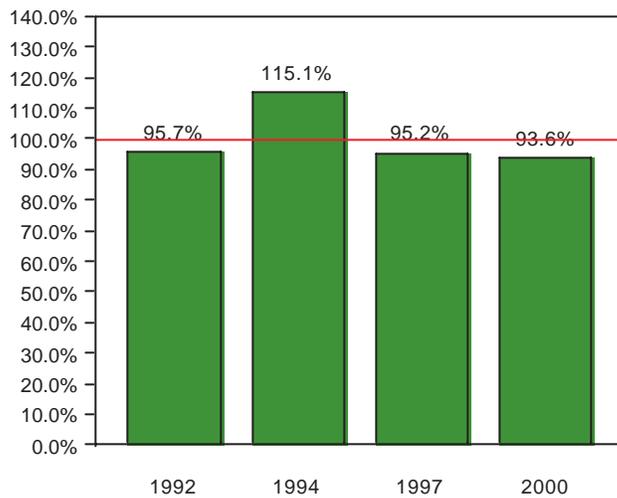


Figure 4.8

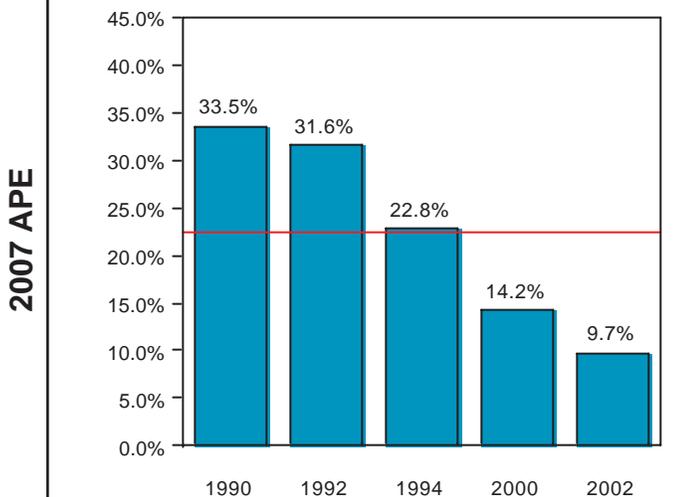
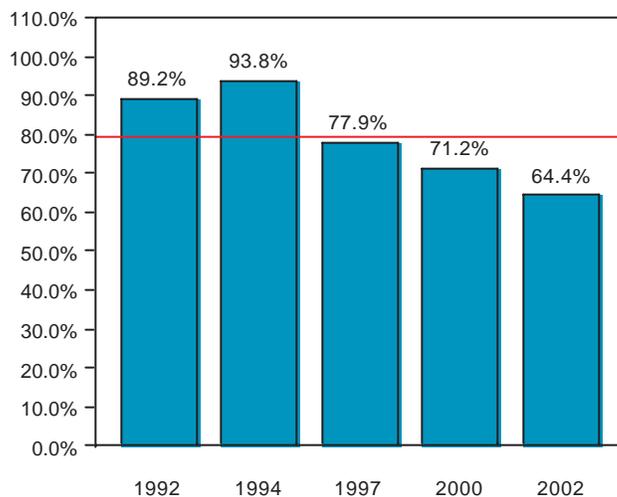


Figure 4.11



Births

Deaths

Figure 4.12

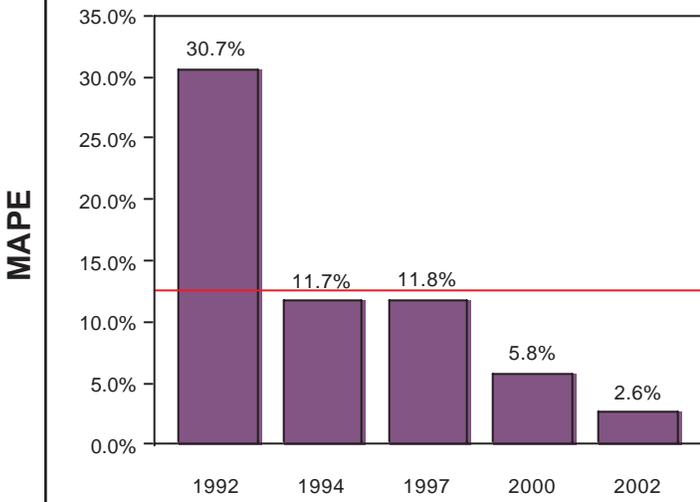


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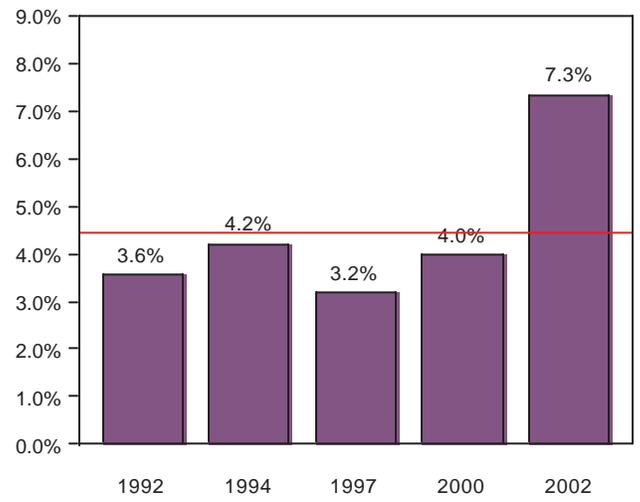


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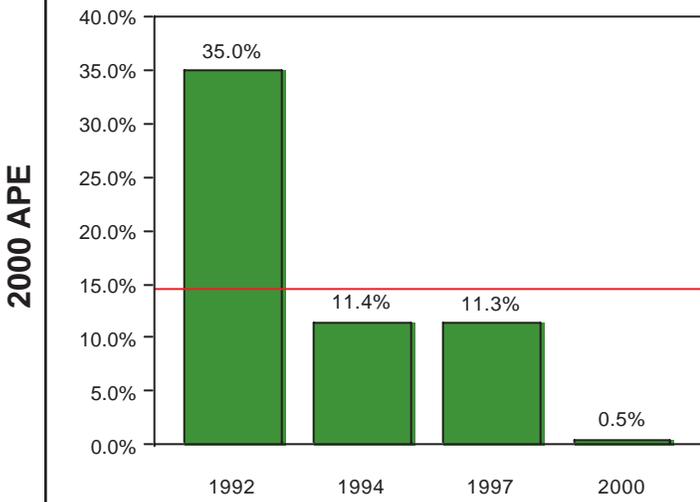


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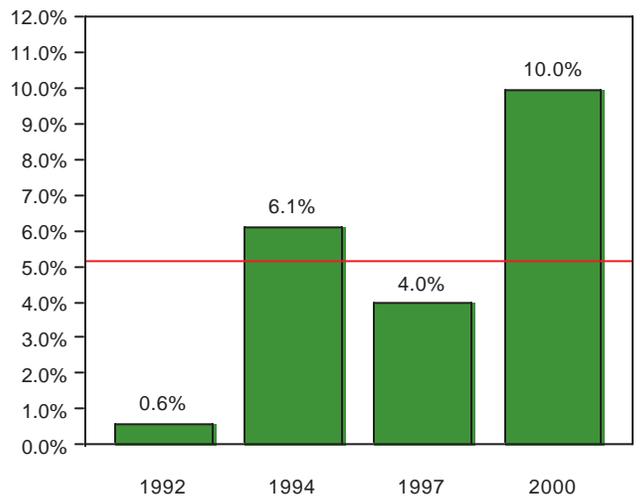


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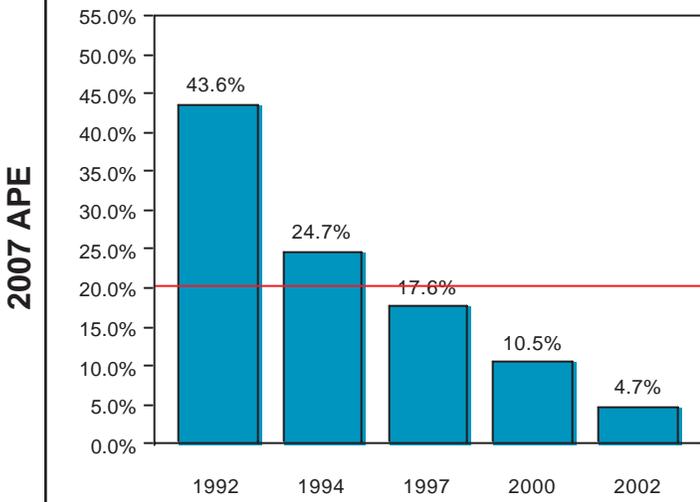
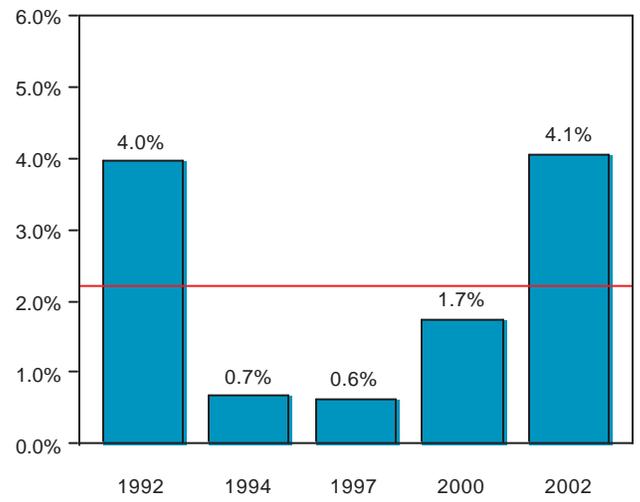


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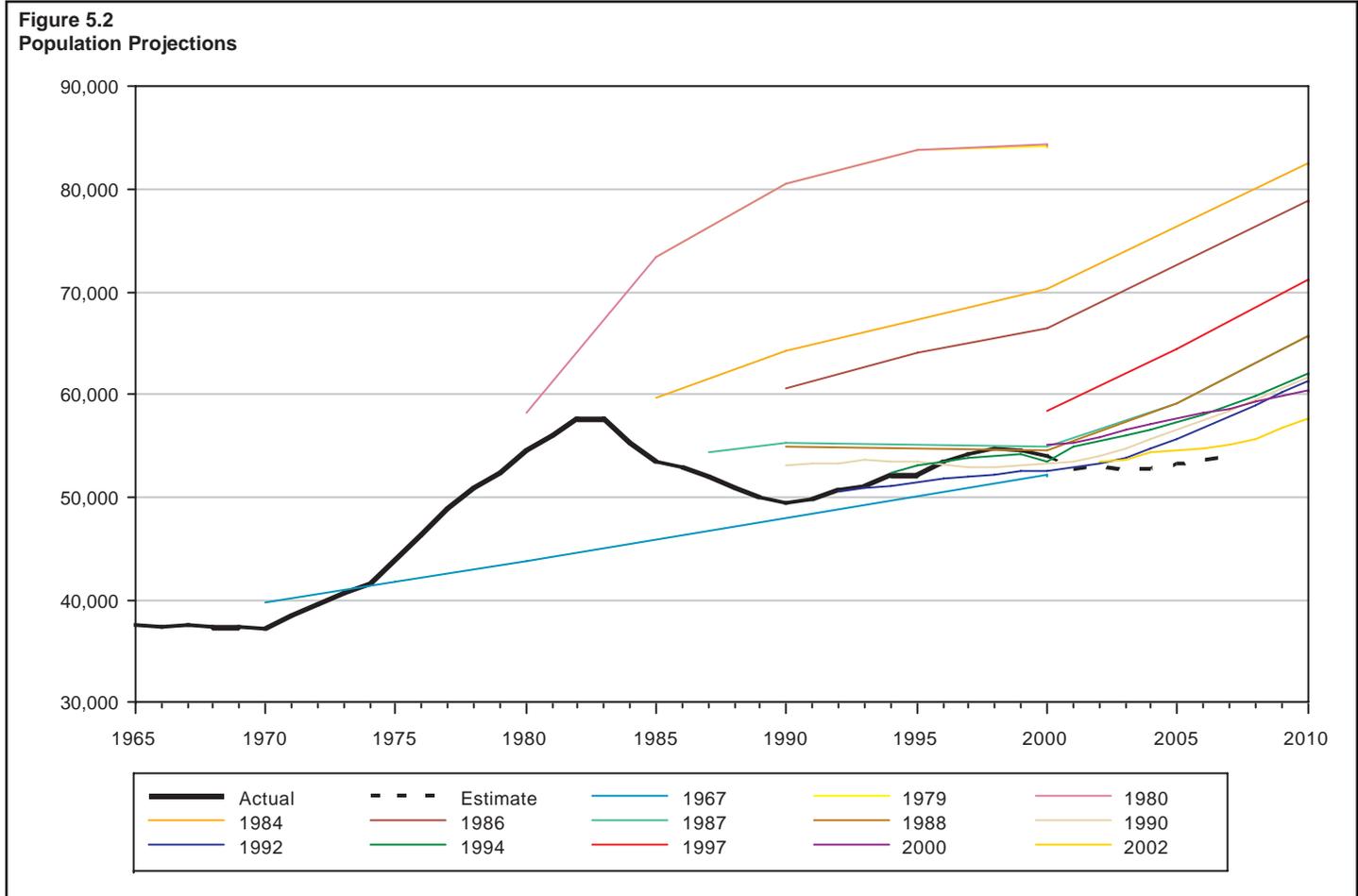
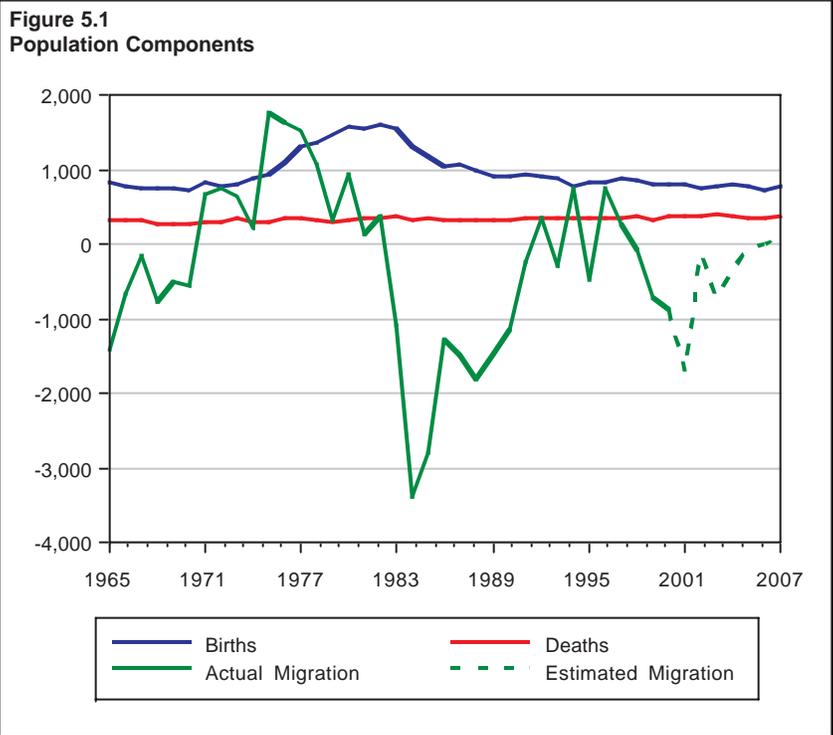


Southeastern MCD

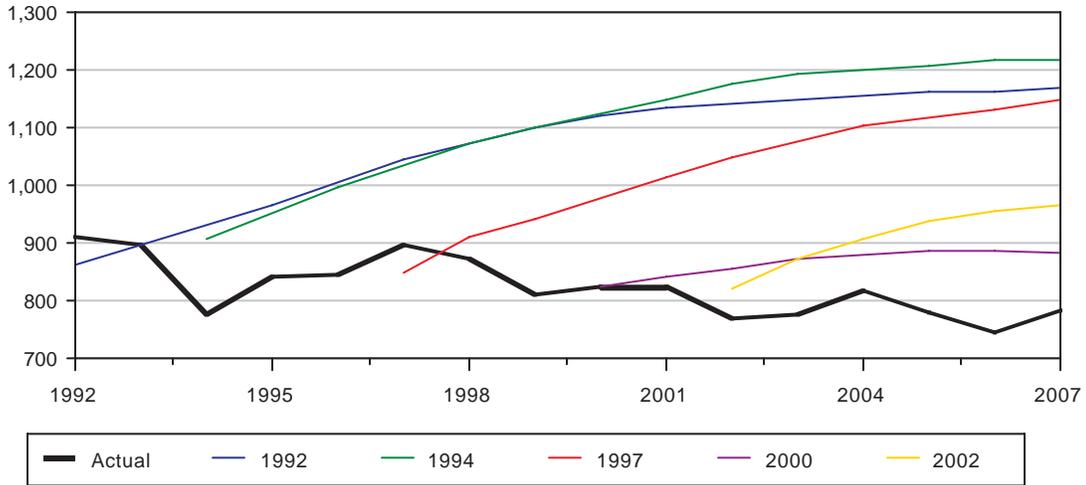
The Southeastern Multi-County District includes Carbon, Emery, Grand, and San Juan counties. The 1988 baseline was the most accurate projection of the 2000 population with an absolute percent error of 0.7%. The 1987, 1990, 1994, and 2000 baselines were also close, all within a 1.7% error. The 1979 and 1980 baselines were the least accurate projections of the 2000 population with absolute percent errors of 55.6%. The 1967 baseline, the oldest projection of the 2000 population, had an absolute percent error of 3.7%. The average absolute percent error of all baselines for the 2000 population projection was 15.4%.

Overall, the 1997 baseline was the most accurate population projection with a mean absolute percent error of 1.4%. The 1979 baseline was the least accurate population projection with a mean absolute percent error of 11.5%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 7.9%.

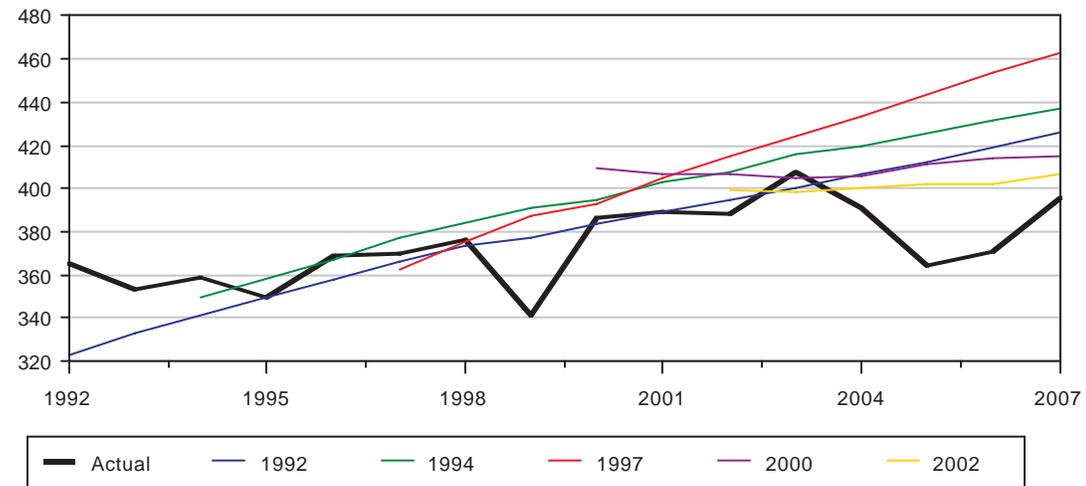
Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 6.4%, compared to 25.0% and 172.0% for births and net migration, respectively.



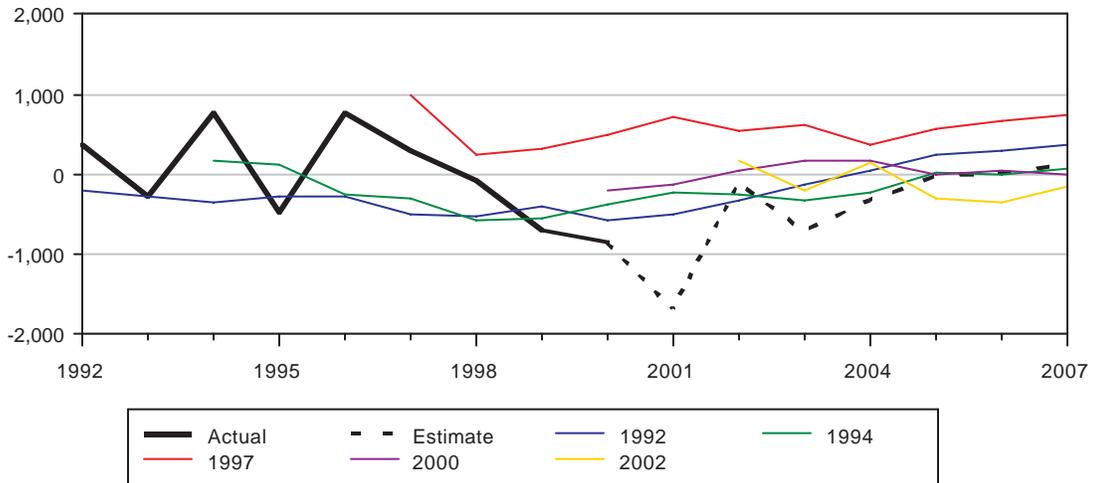
**Figure 5.3
Birth Projections**



**Figure 5.4
Death Projections**



**Figure 5.5
Migration Projections**



Population

Net Migration

Figure 5.6

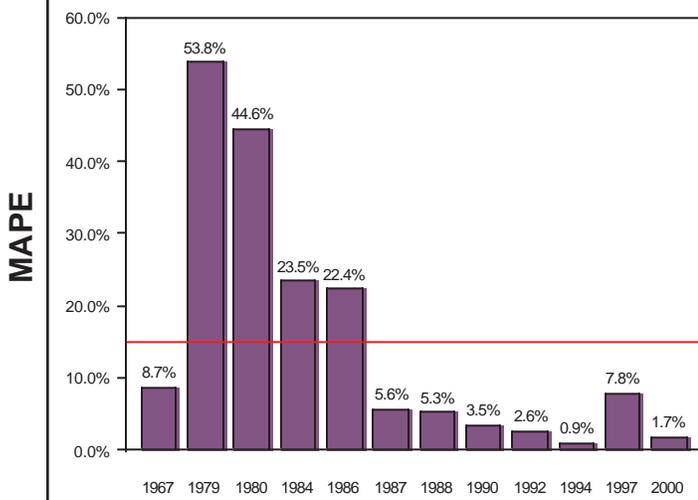


Figure 5.9

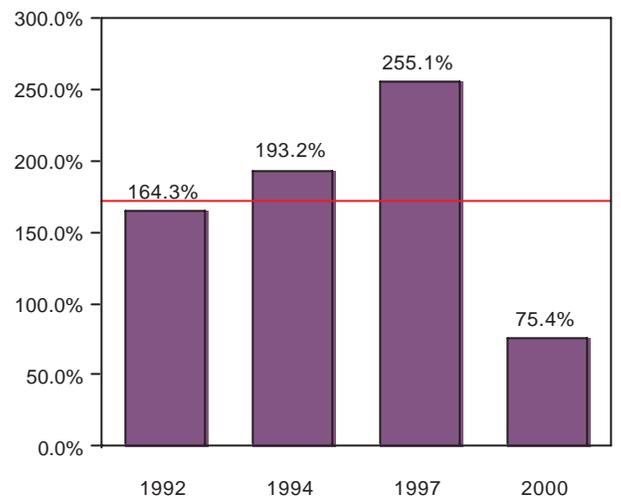


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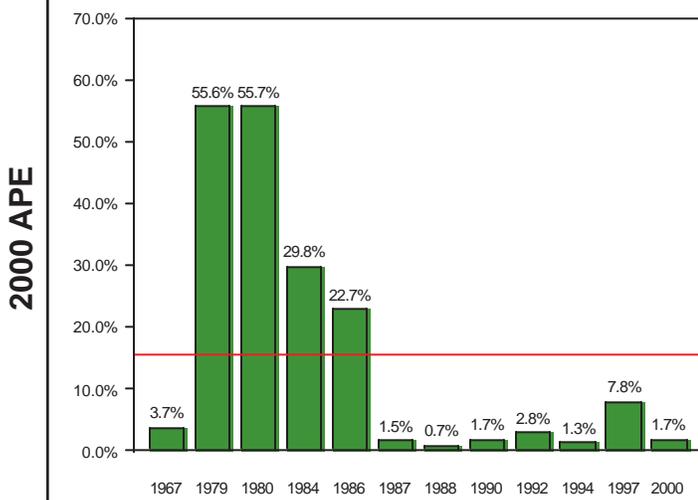


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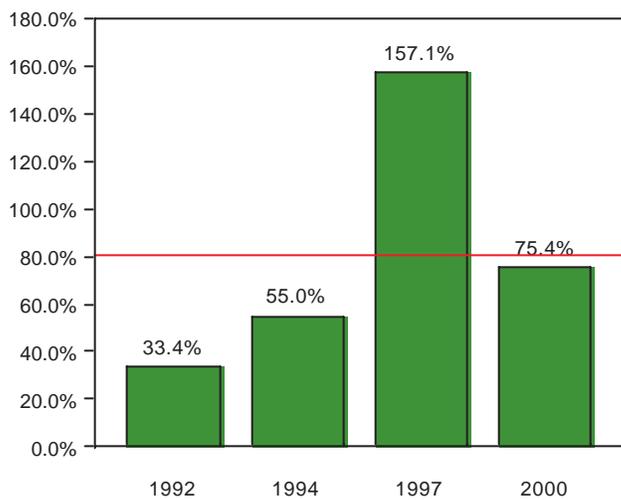


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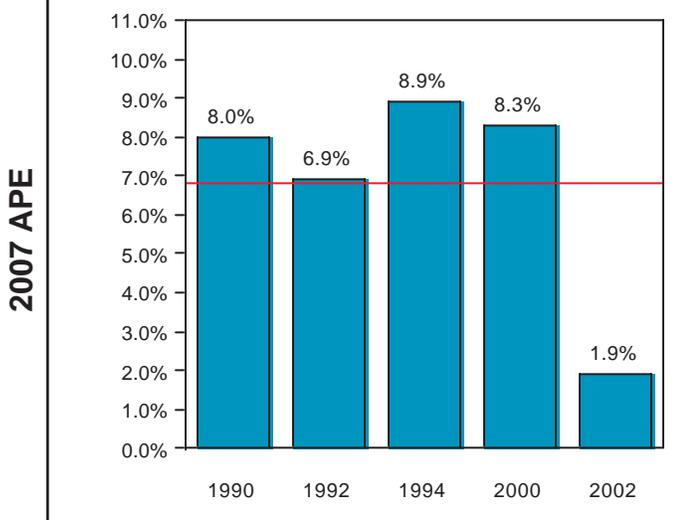
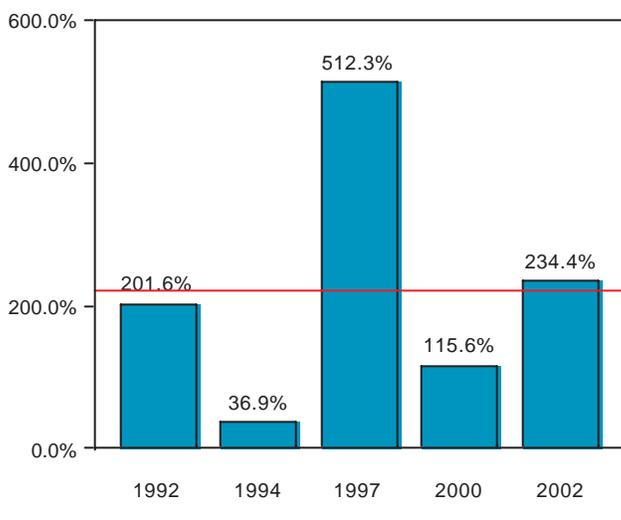


Figure 5.11



Births

Deaths

Figure 5.12

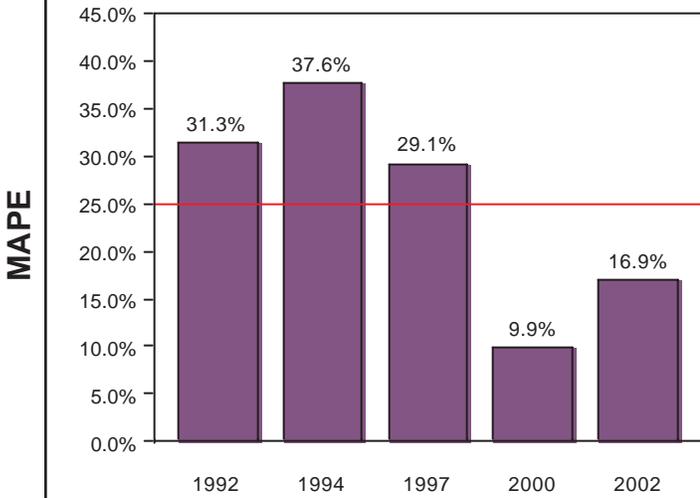


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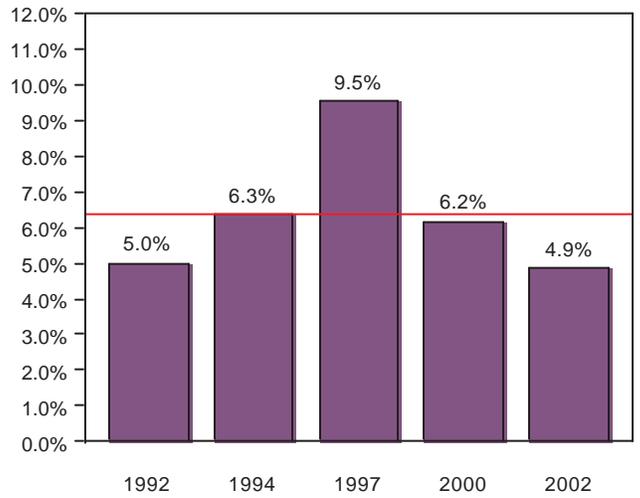


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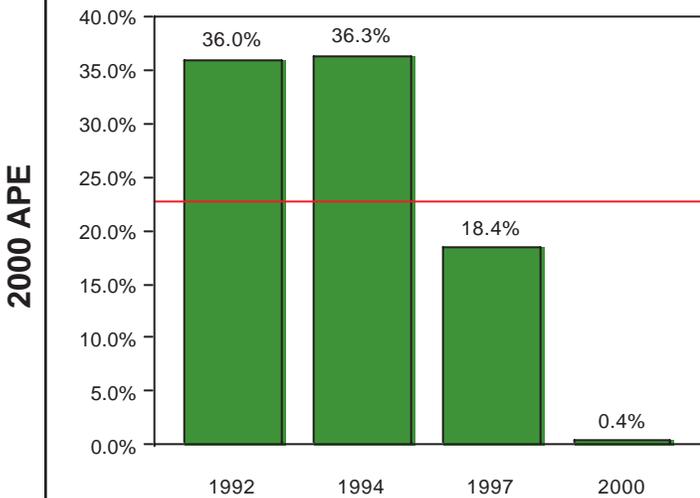


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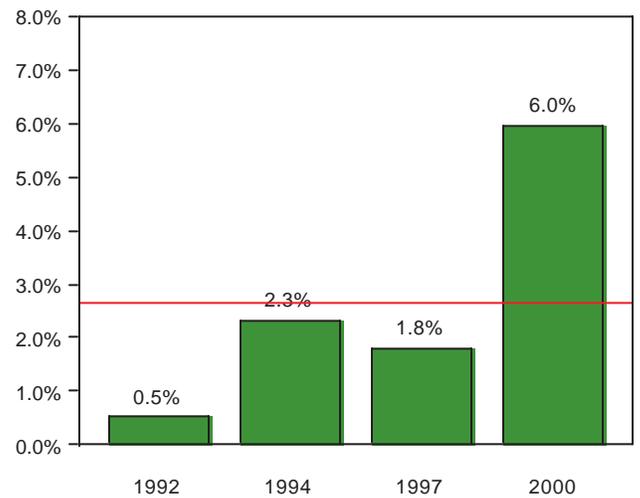


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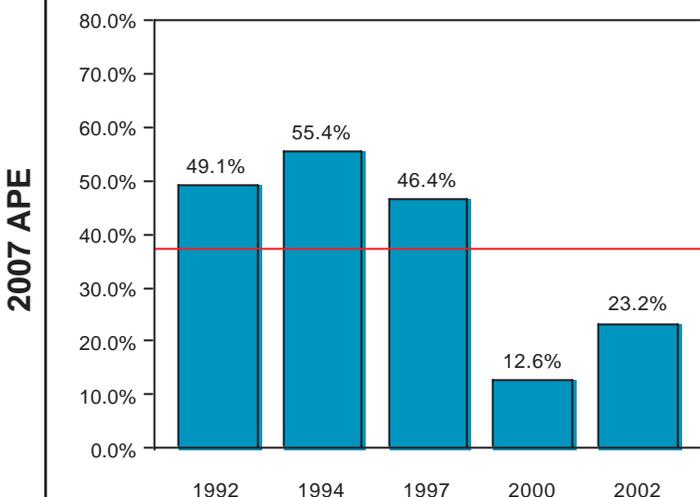
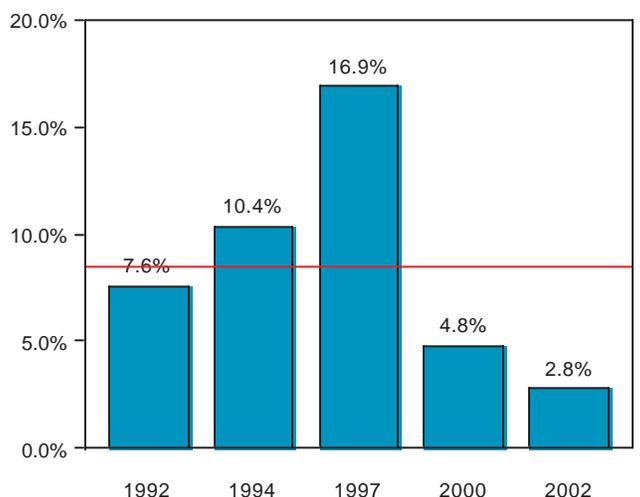


Figure 5.17



Southwestern MCD

The Southwestern Multi-County District includes Beaver, Garfield, Iron, Kane, and Washington counties. The 1997 baseline was the most accurate projection of the 2000 population with an absolute percent error of 0.8%. The 1992, 1994, and 2000 baselines were also close, all within a 16.9% error. The 1967 baseline, the oldest projection of the 2000 population, was the least accurate projection with an absolute percent error of 65.0%. The average absolute percent error of all baselines for the 2000 population projection was 29.4%.

Overall, the 1997 baseline was the most accurate population projection with a mean absolute percent error of 0.8%. The 1967 baseline, the oldest projection, was the least accurate population projection with a mean absolute percent error of 30.2%.

Of the components of population change, projections for births were most accurate with an overall mean absolute percent error for all baselines of 5.5%, compared to 11.3% and 37.9% for births and net migration, respectively.

Figure 6.1
Population Components

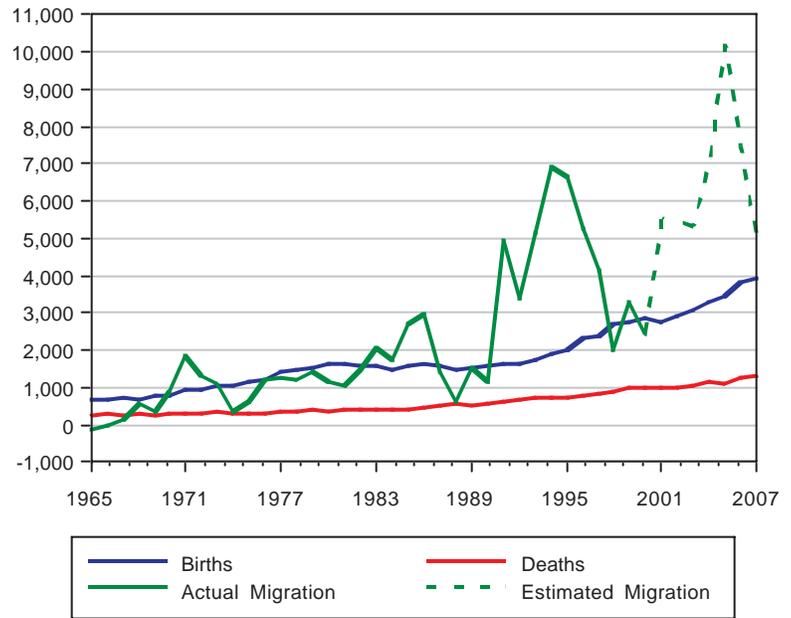
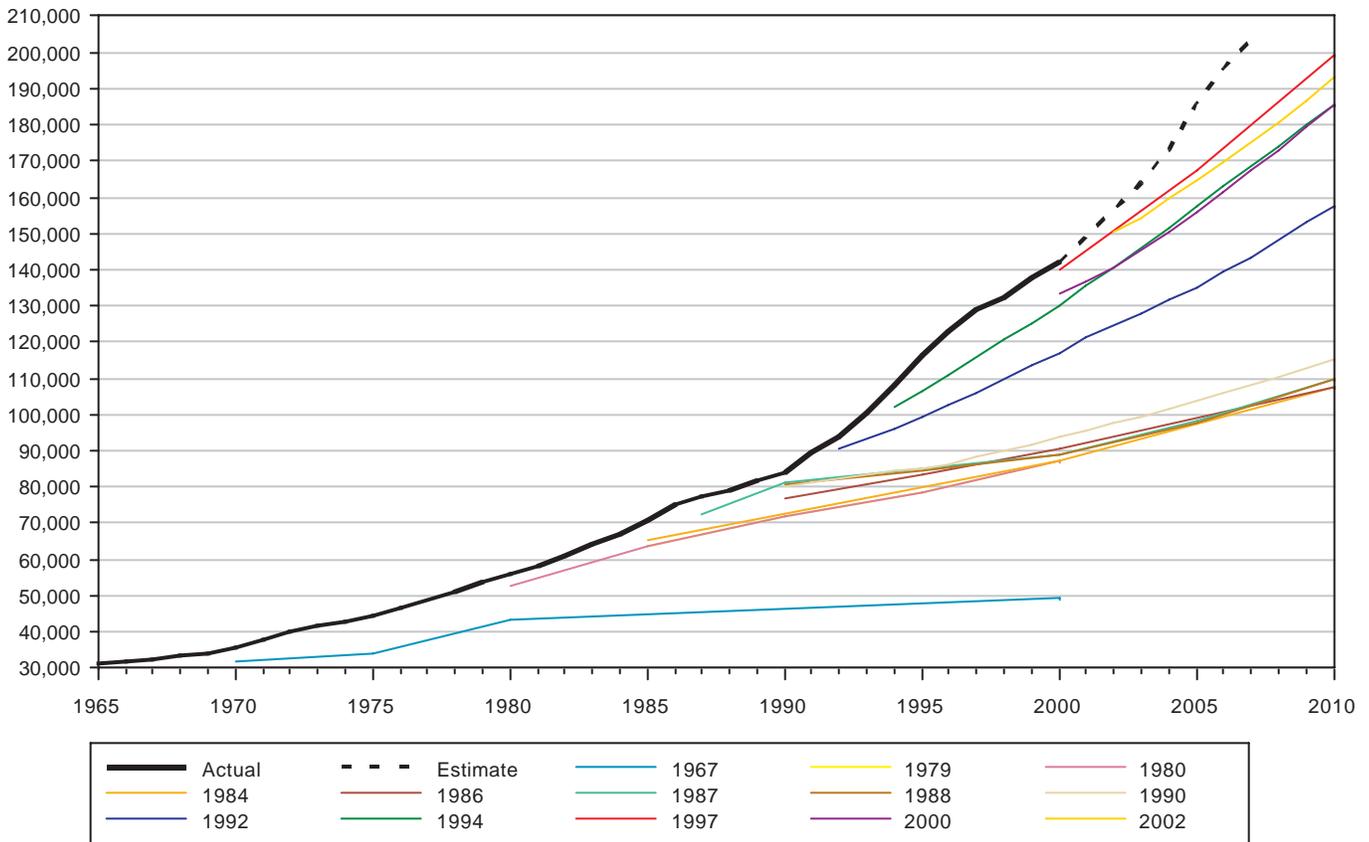
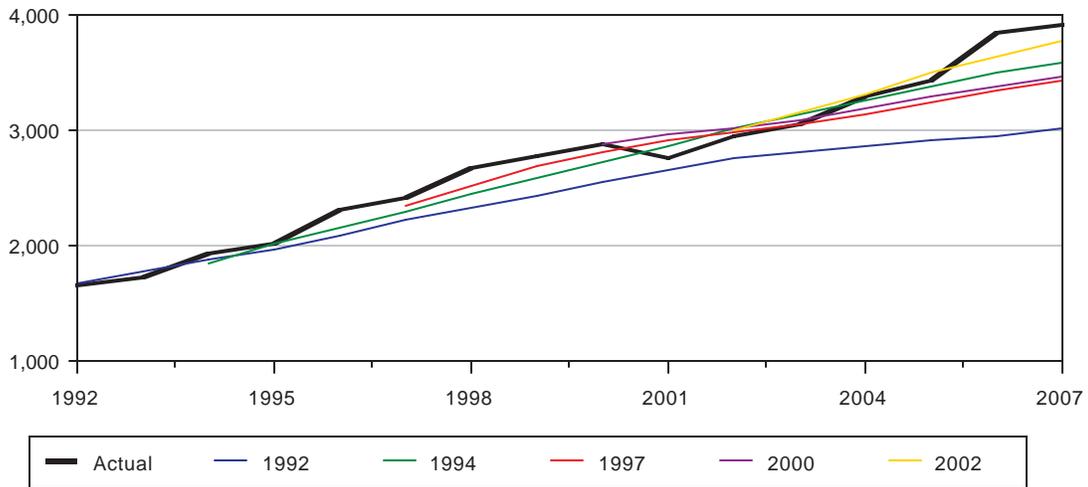


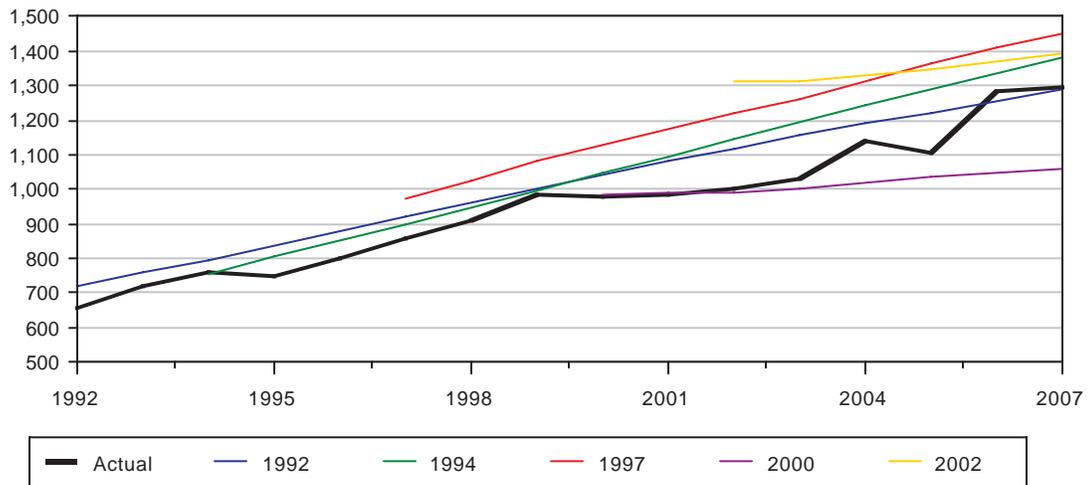
Figure 6.2
Population Projections



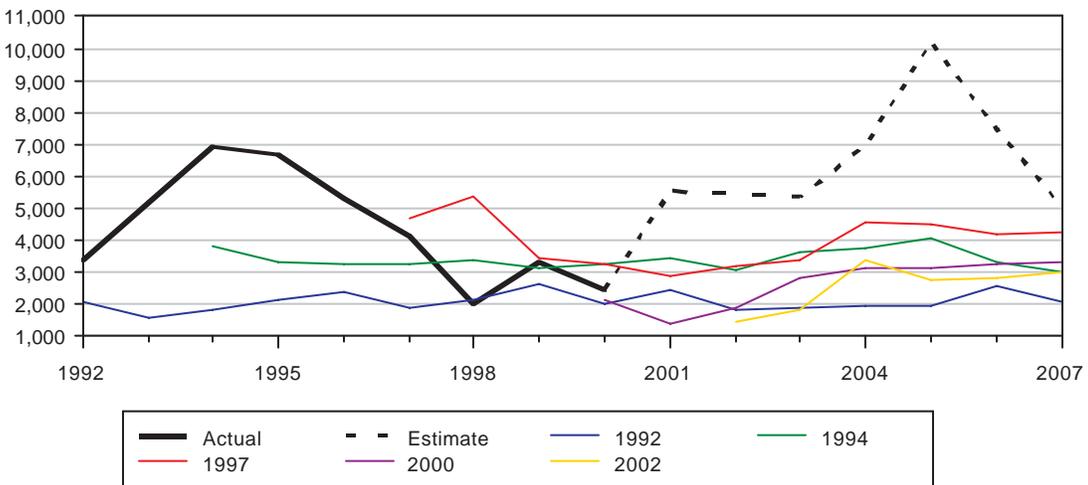
**Figure 6.3
Birth Projections**



**Figure 6.4
Death Projections**



**Figure 6.5
Migration Projections**



Population

Net Migration

Figure 6.6

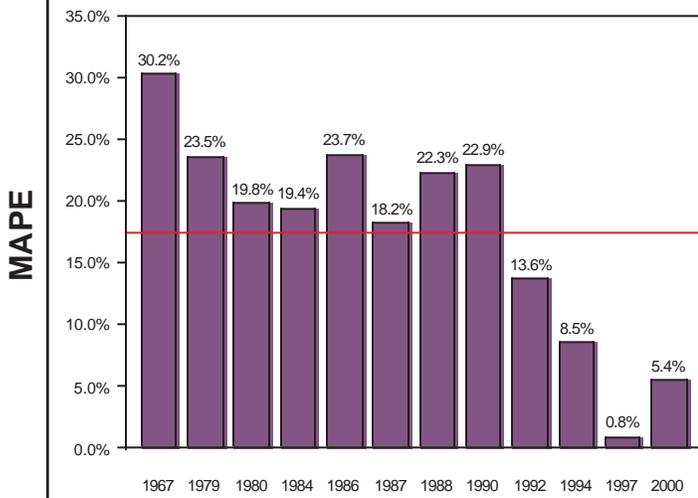


Figure 6.9

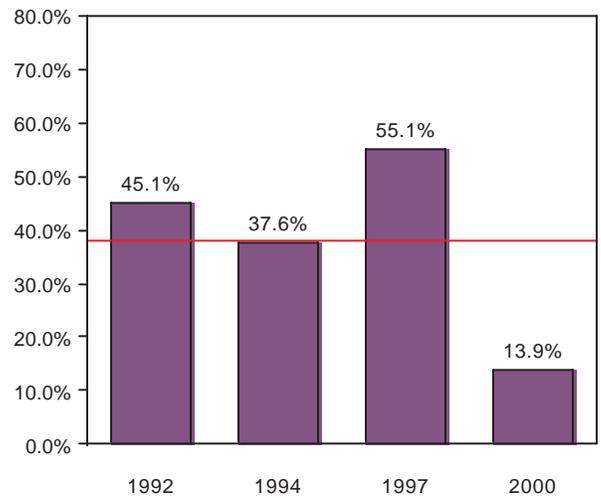


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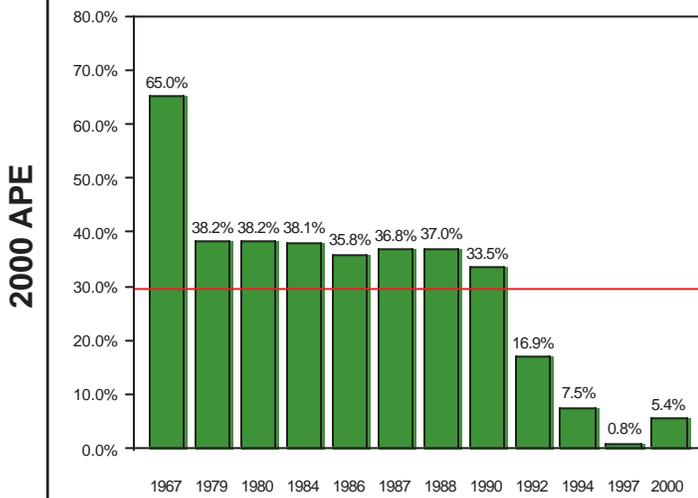


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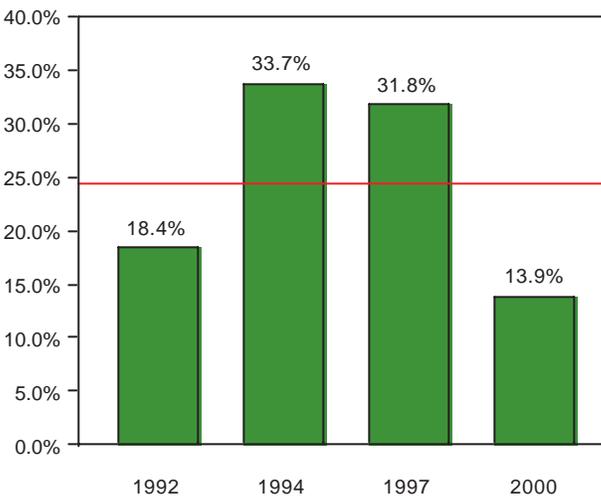


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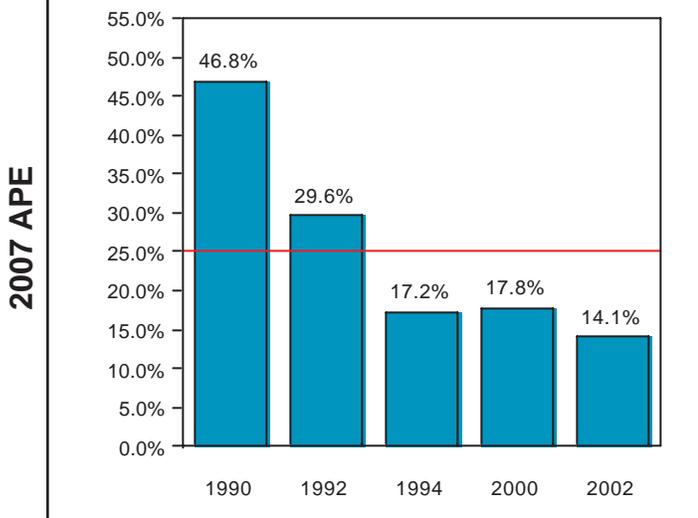
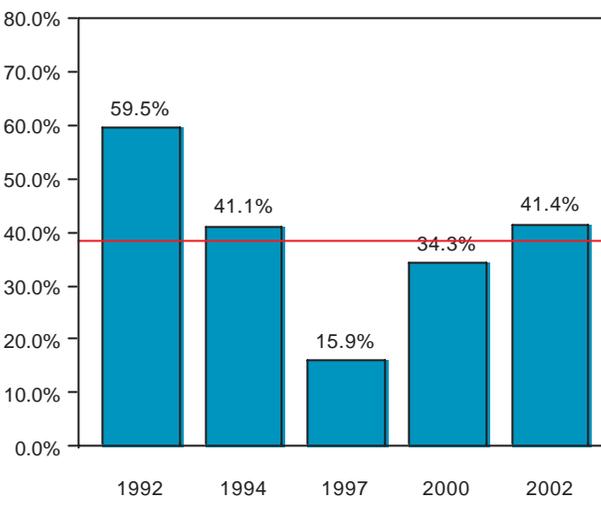


Figure 6.11



Births

Deaths

Figure 6.12

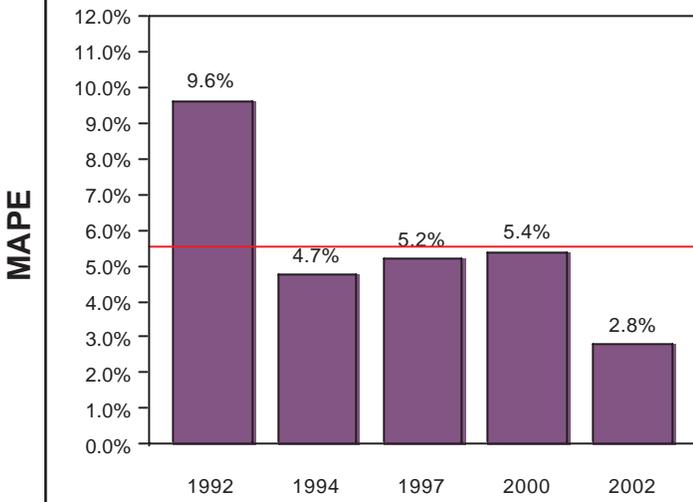


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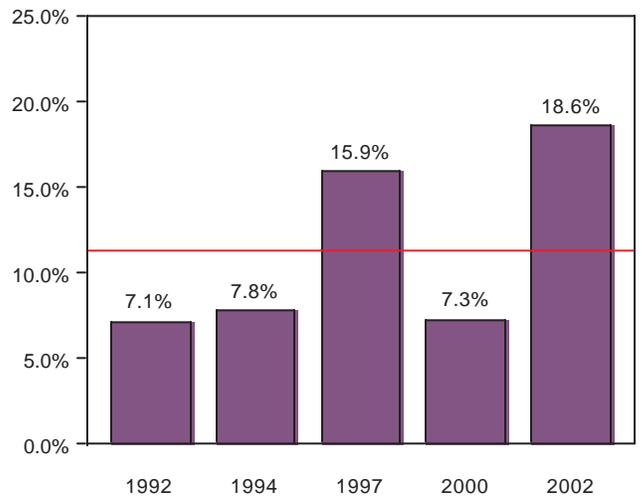


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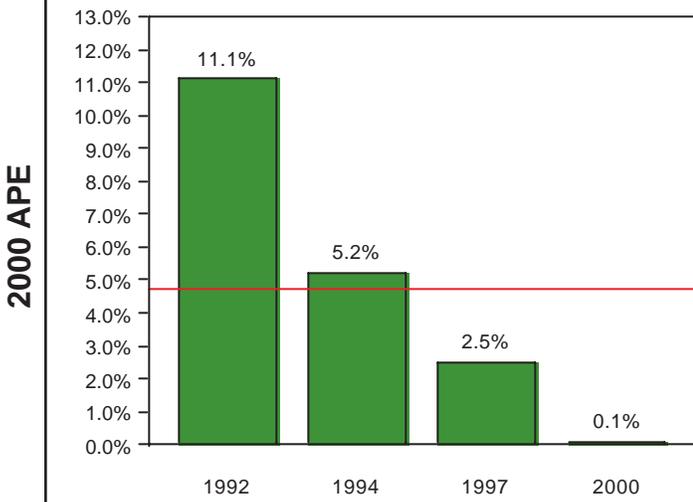


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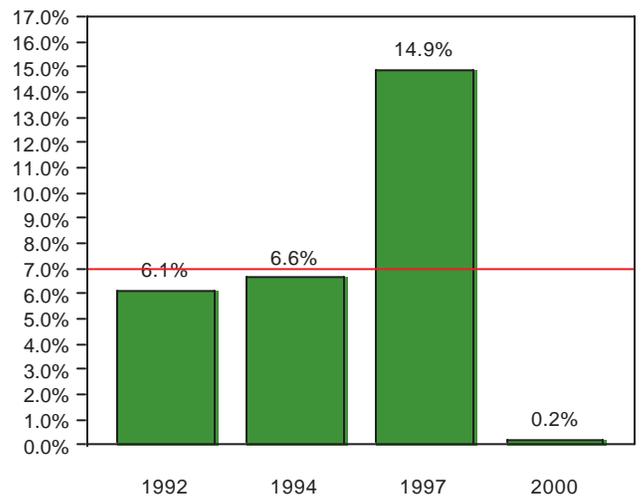


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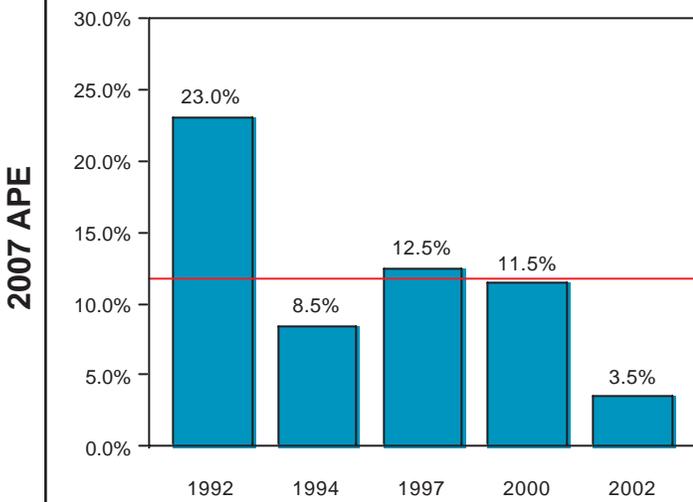
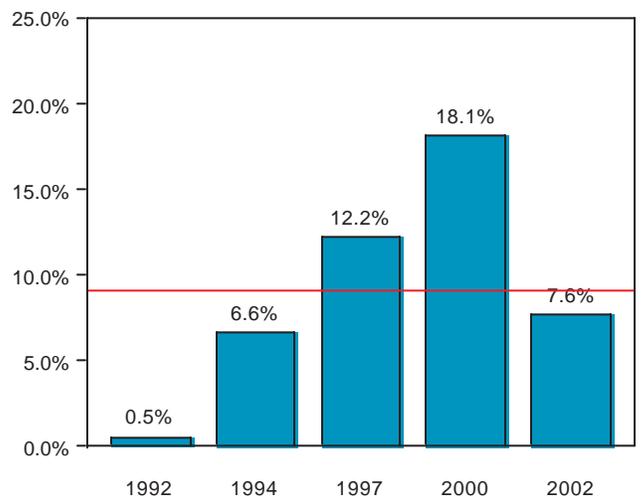


Figure 6.17



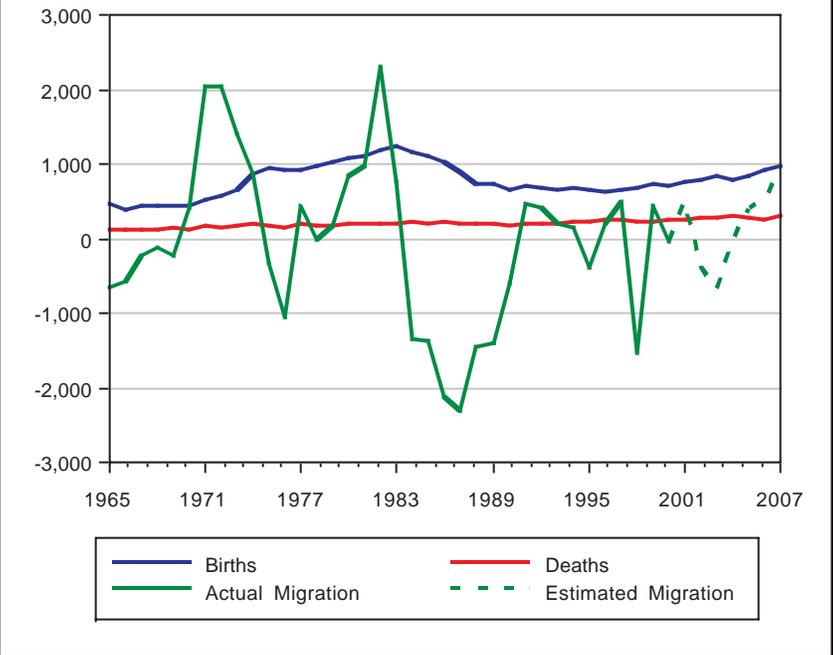
Uintah Basin MCD

The Uintah Basin Multi-County District includes Daggett, Duchesne, and Uintah counties. The 2000 baseline was the most accurate projection of the 2000 population with an absolute percent error of 0.3%. The 1990, 1994, and 1997 baselines were also close, all within a 2.0% error. The 1984 baseline was the least accurate projection of the 2000 population with an absolute percent error of 27.6%. The 1967 baseline, the oldest projection of the 2000 population, had an absolute percent error of 17.6%. The average absolute percent error of all baselines for the 2000 population projection was 9.0%.

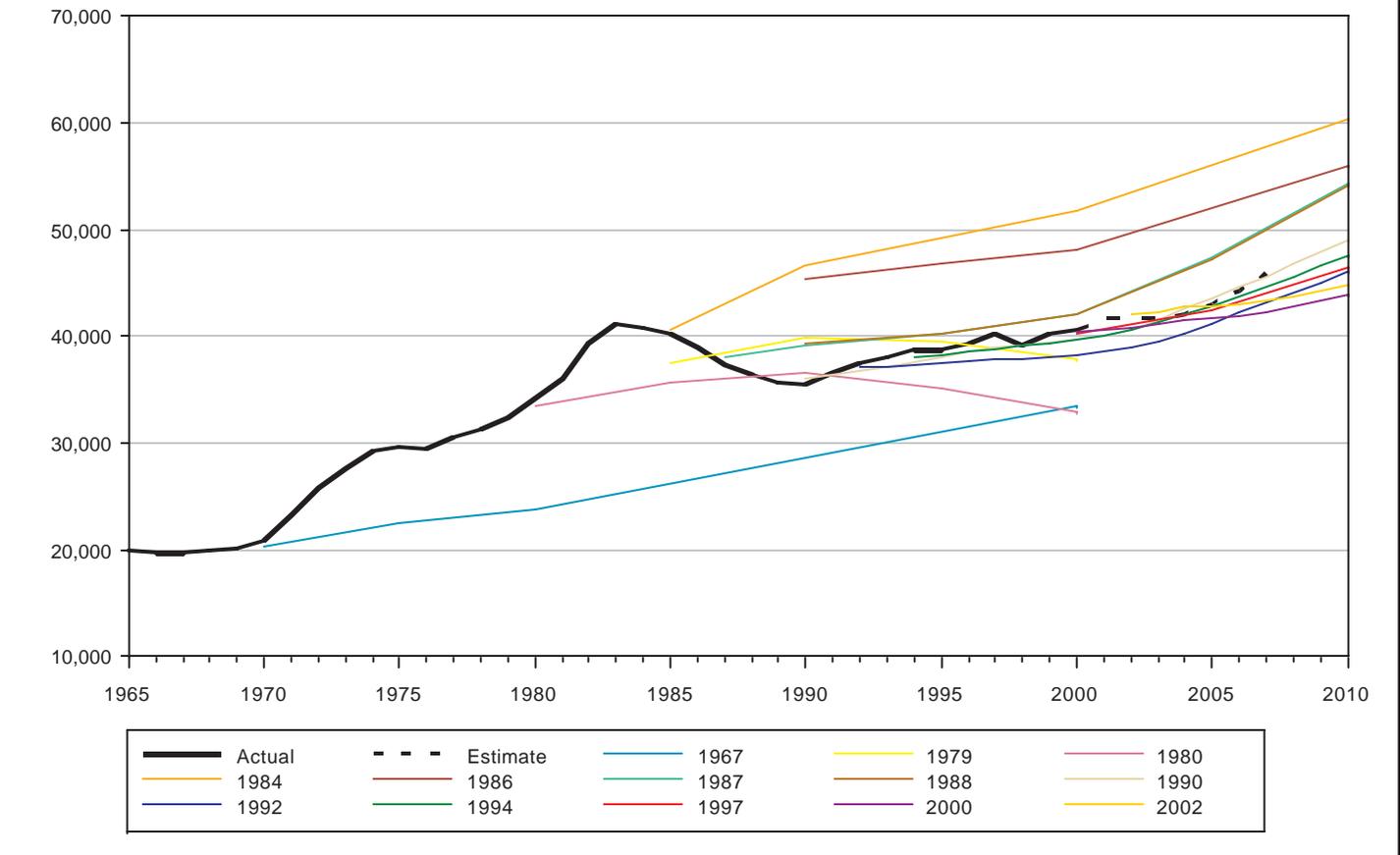
Overall, the 2000 baseline was the most accurate population projection with a mean absolute percent error of 0.3%. The 1986 baseline was the least accurate population projection with a mean absolute percent error of 22.5%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 18.3%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 10.6%, compared to 11.3% and 889.9% for births and net migration, respectively.

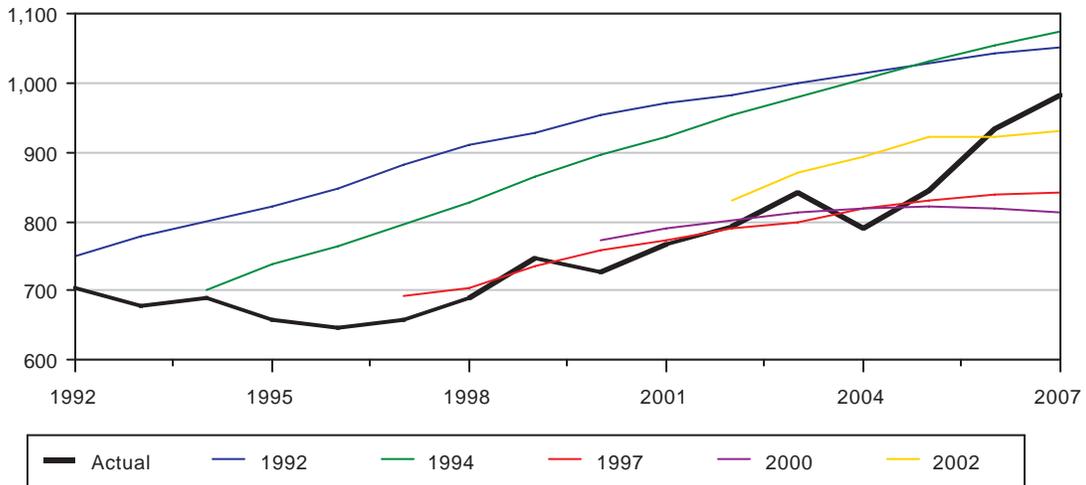
**Figure 7.1
Population Components**



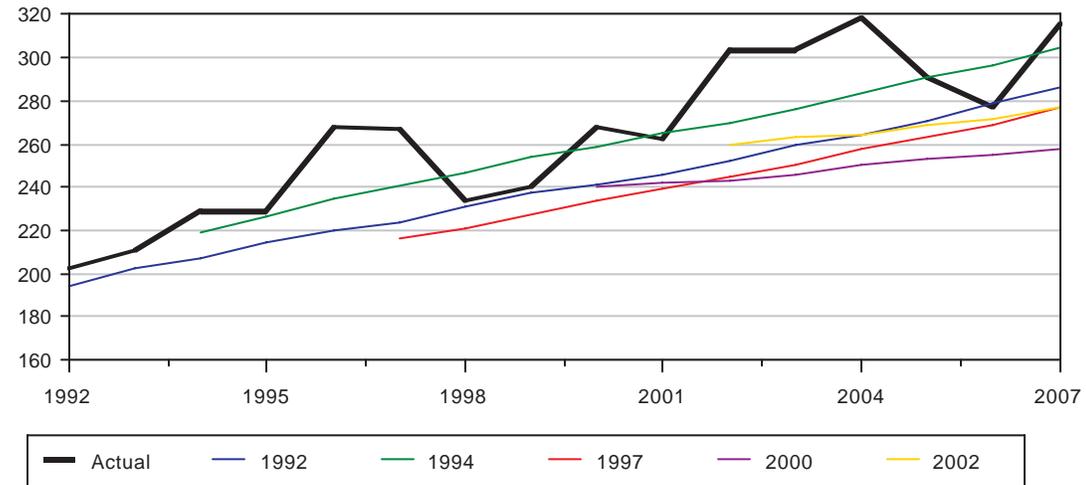
**Figure 7.2
Population Projections**



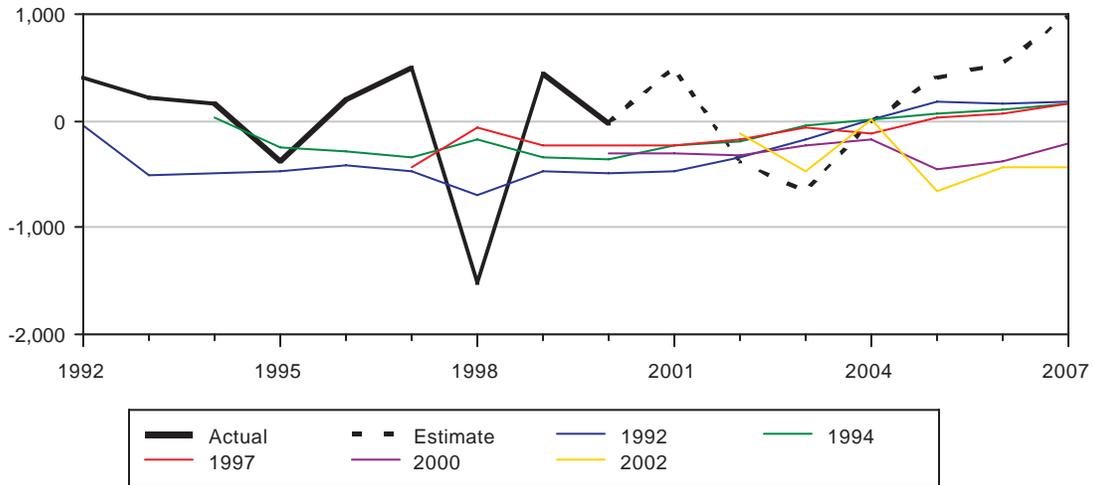
**Figure 7.3
Birth Projections**



**Figure 7.4
Death Projections**



**Figure 7.5
Migration Projections**



Population

Net Migration

Figure 7.6

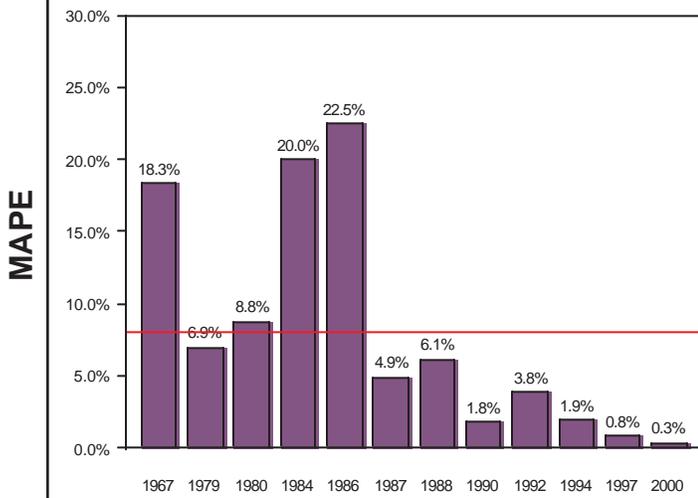


Figure 7.9

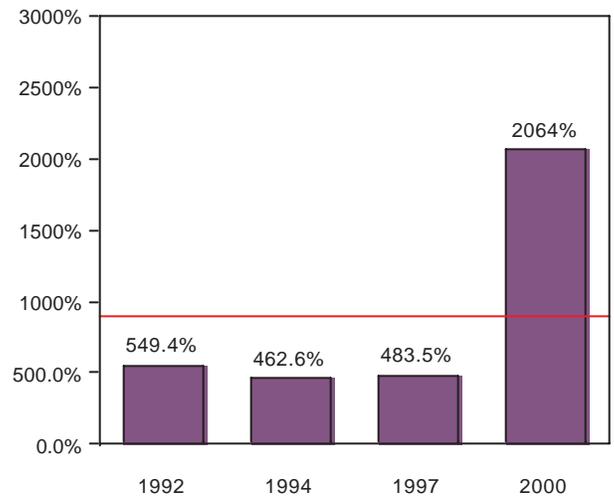


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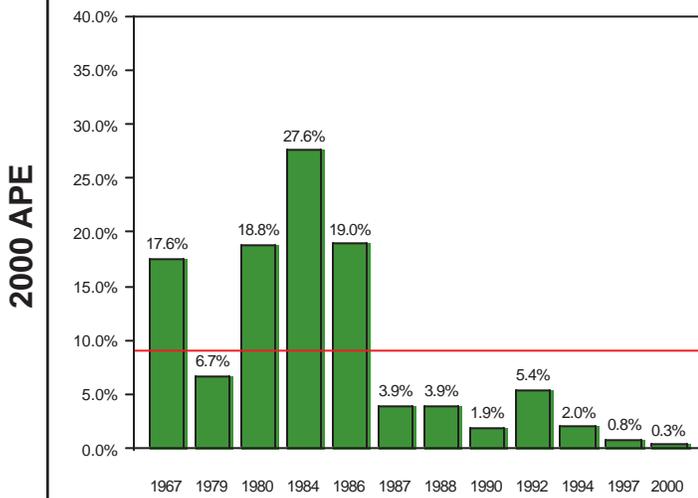


Figure 7.10

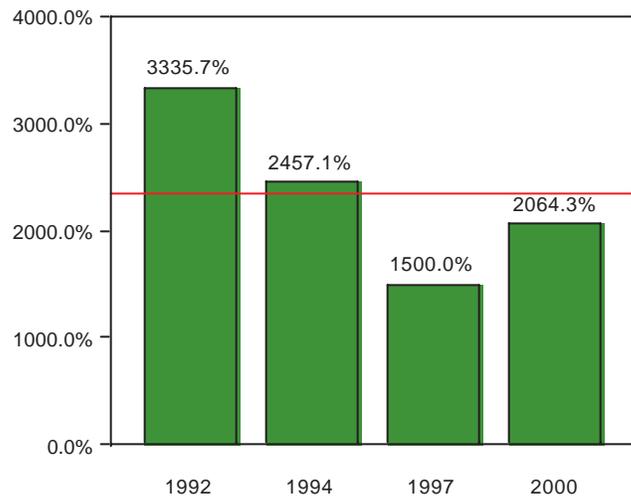


Figure 7.8

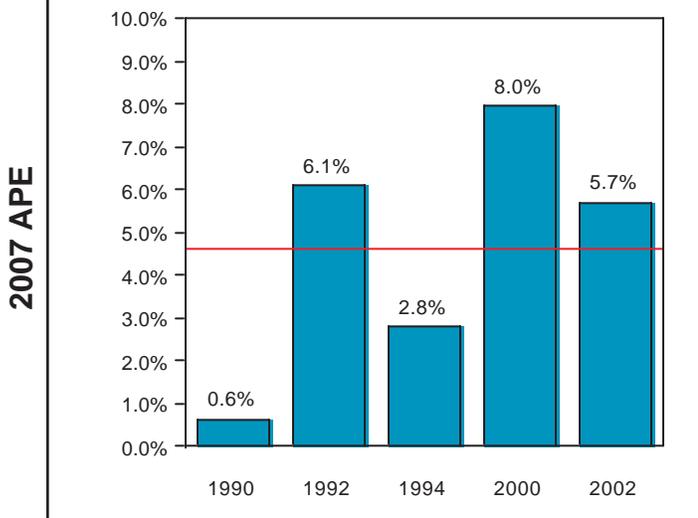
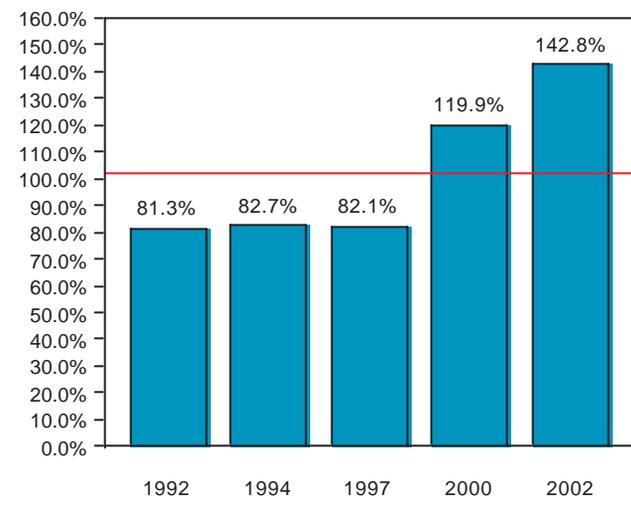


Figure 7.11



Births

Deaths

Figure 7.12

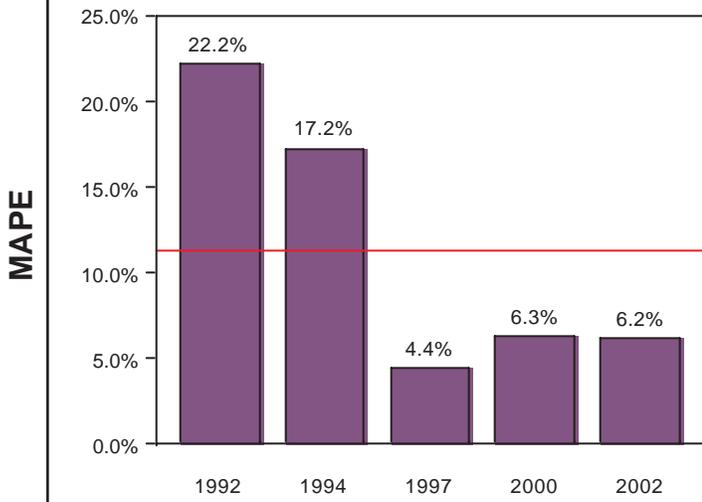


Figure 7.15

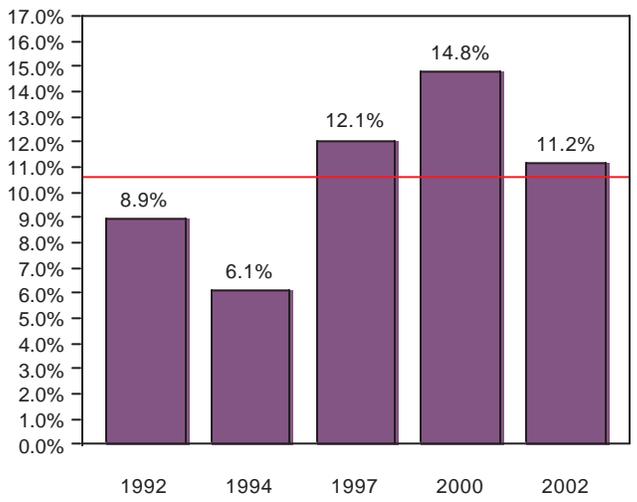


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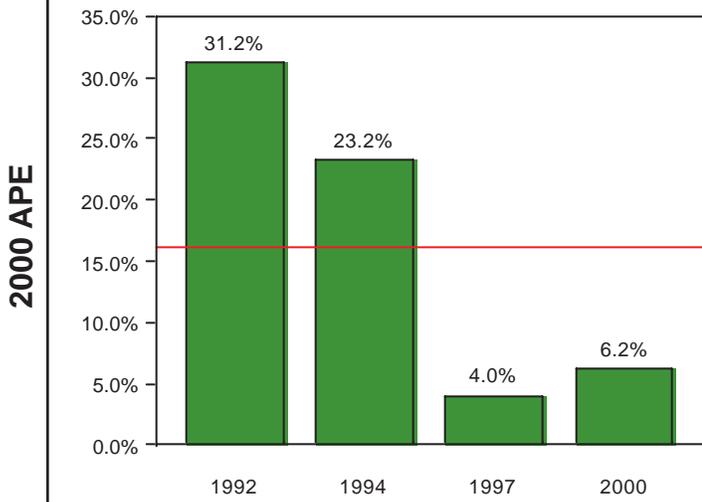


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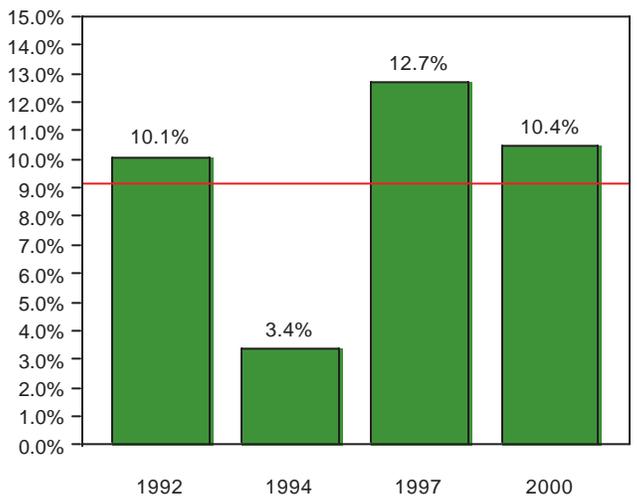


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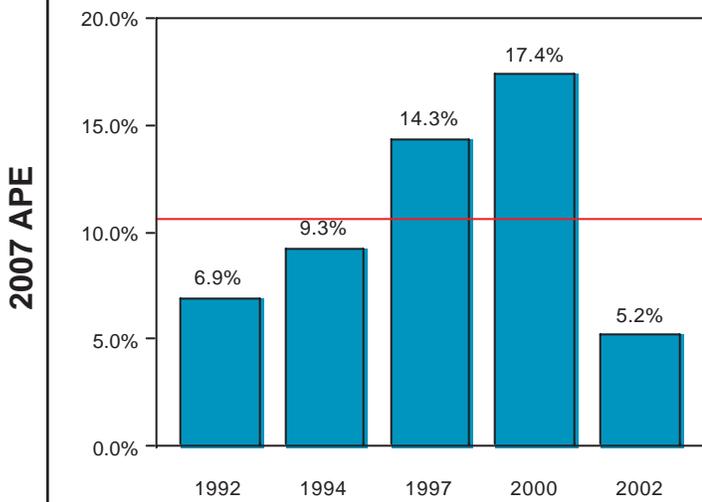
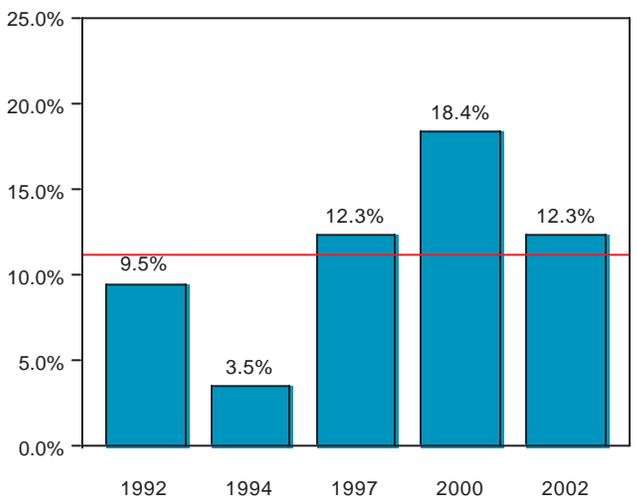


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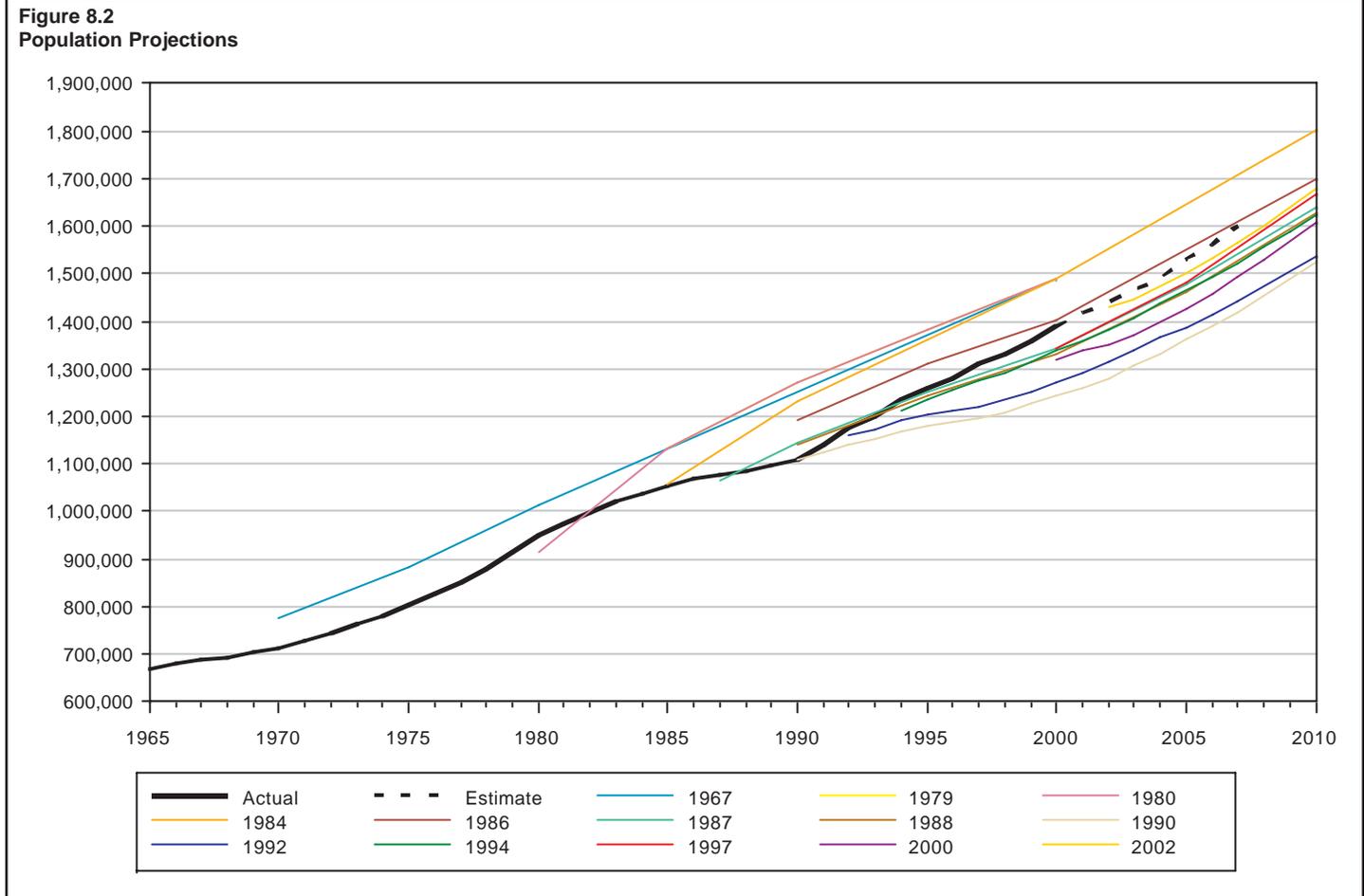
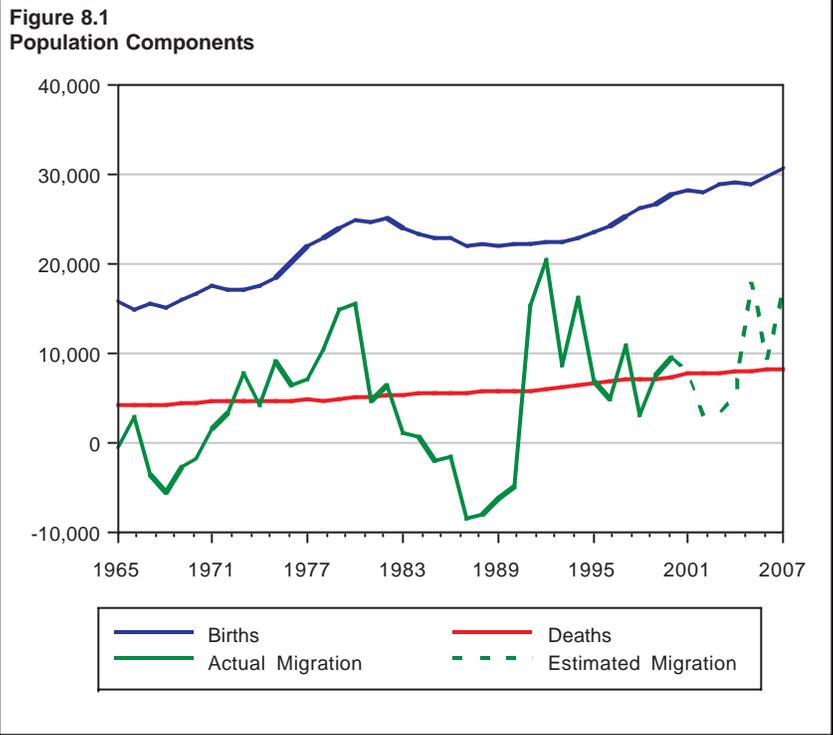


Wasatch Front MCD

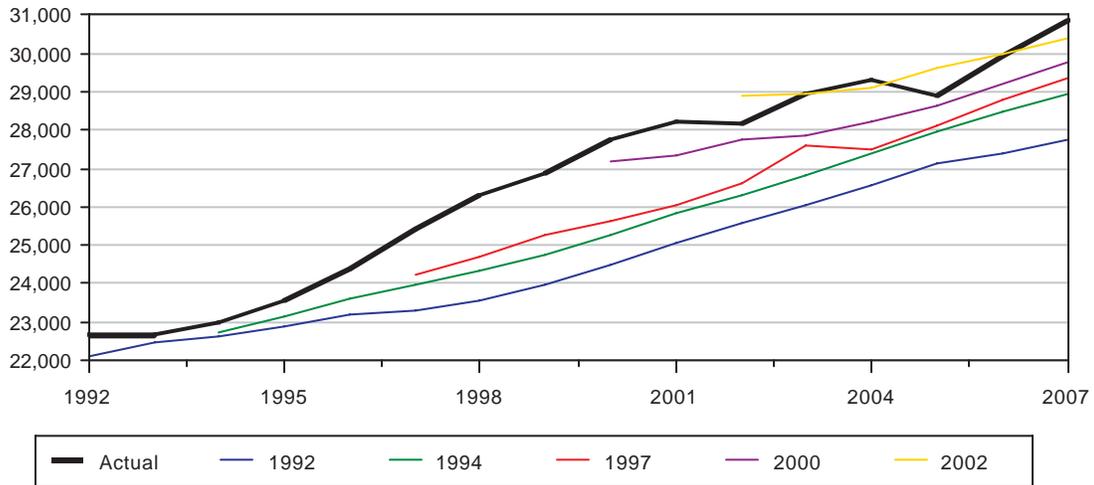
The Wasatch Front Multi-County District includes Davis, Morgan, Salt Lake, Tooele, and Weber counties. The 1986 baseline was the most accurate projection of the 2000 population with an absolute percent error of 1.3%. The 1987, 1988, 1994, and 1997 baselines were also close, all within a 3.6% error. The 1990 baseline was the least accurate projection of the 2000 population with an absolute percent error of 9.9%. The 1967 baseline, the oldest projection of the 2000 population, had an absolute percent error of 7.8%. The average absolute percent error of all baselines for the 2000 population projection was 5.6%.

Overall, the 1987 baseline was the most accurate population projection with a mean absolute percent error of 2.1%. The 1979 baseline was the least accurate population projection with a mean absolute percent error of 10.2%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 8.8%.

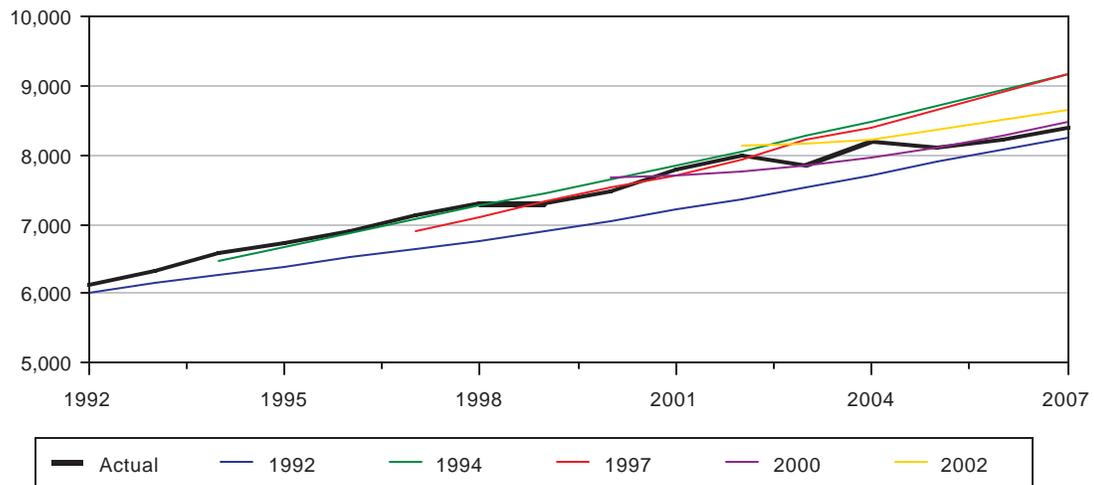
Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 3.2%, compared to 4.5% and 117.3% for births and net migration, respectively.



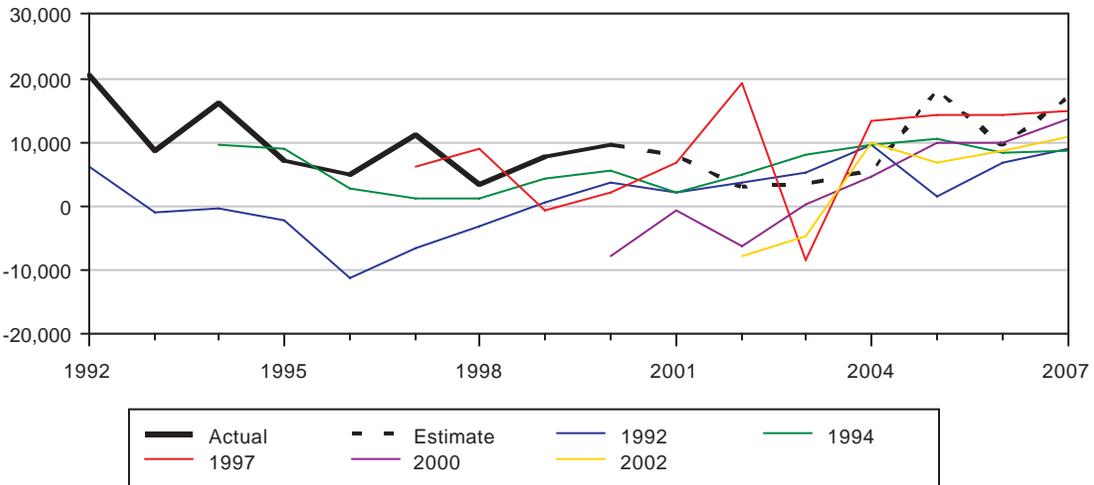
**Figure 8.3
Birth Projections**



**Figure 8.4
Death Projections**



**Figure 8.5
Migration Projections**



Population

Net Migration

Figure 8.6

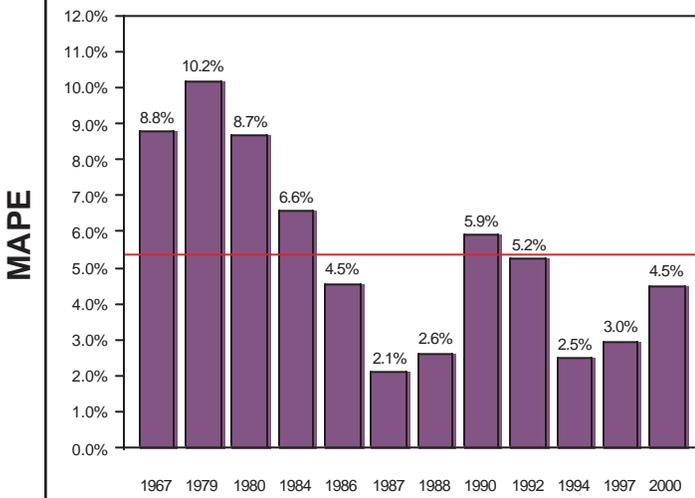


Figure 8.9

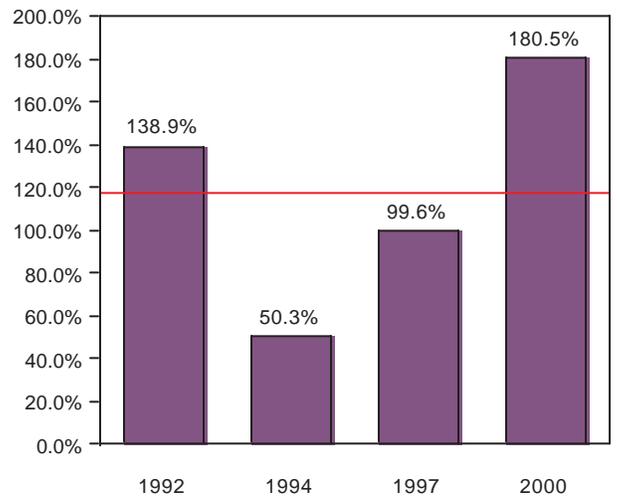


Figure 8.7

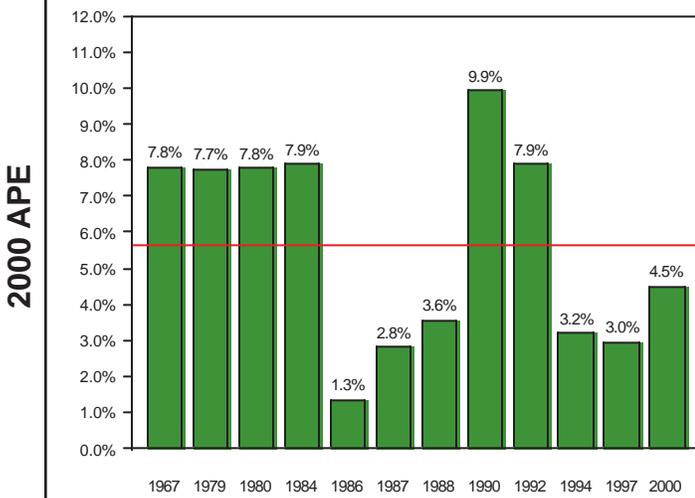


Figure 8.10

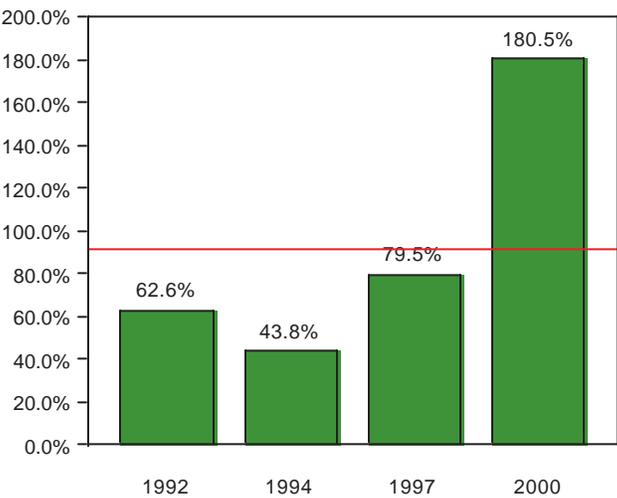


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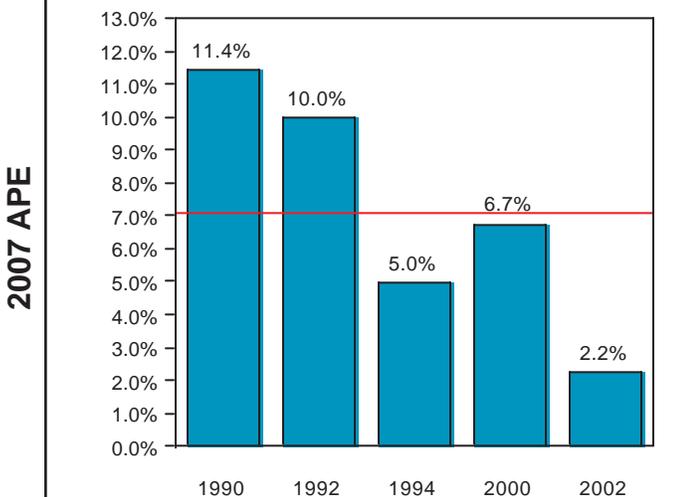
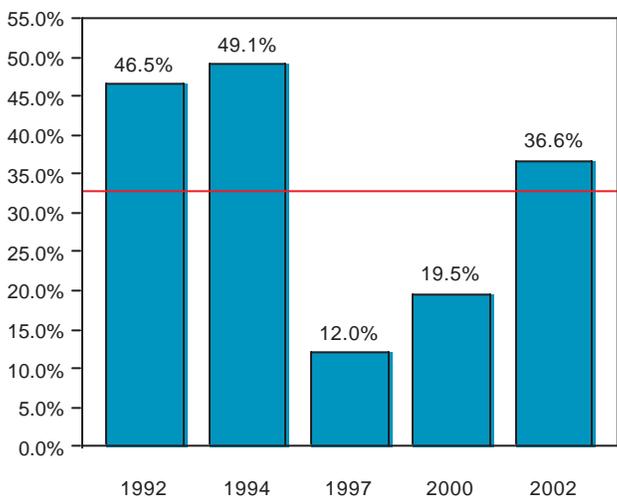


Figure 8.11



Births

Deaths

Figure 8.12

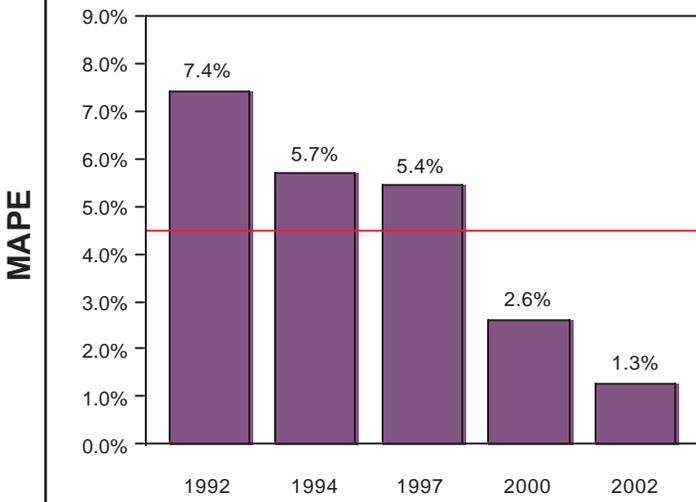


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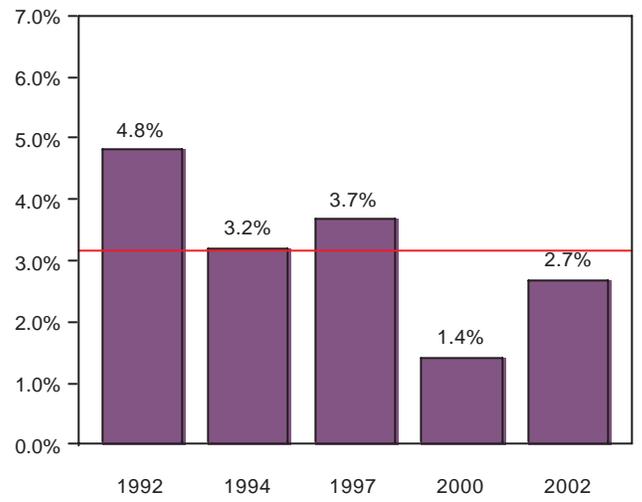


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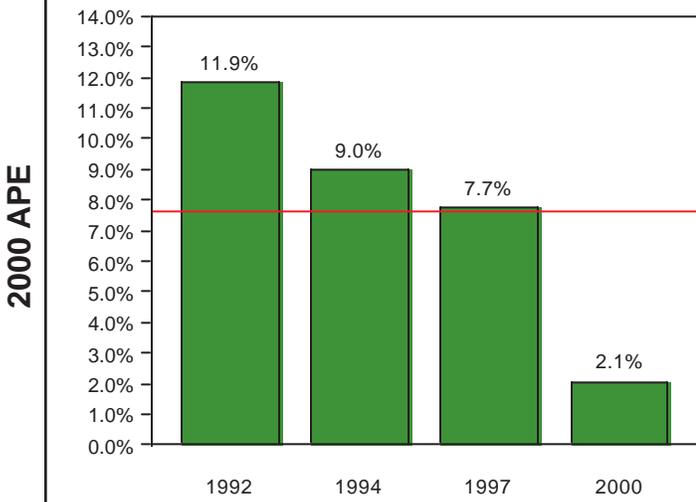


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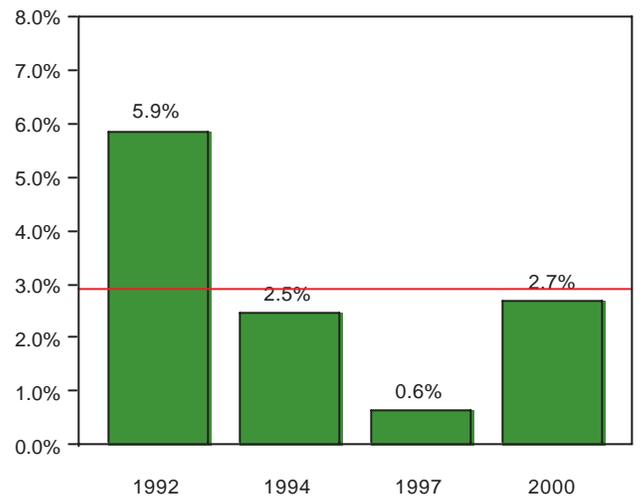


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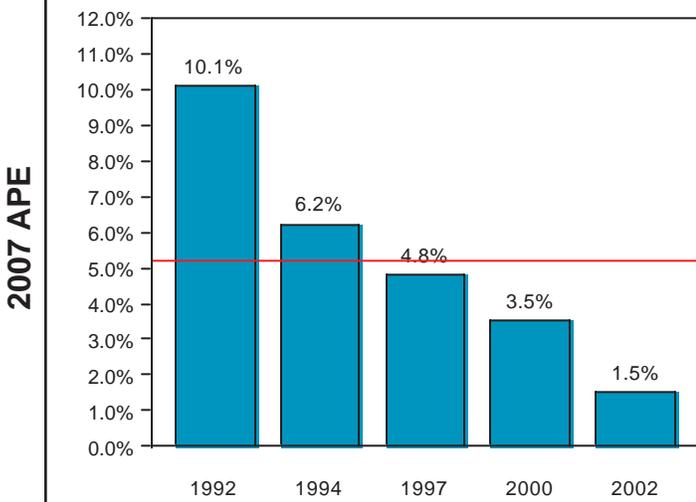
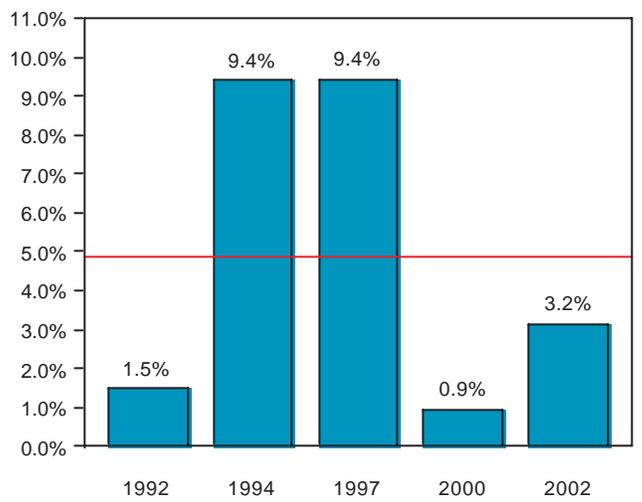


Figure 8.17



Counties

Beaver County

The 2000 baseline was the most accurate projection of the 2000 population with an absolute percent error of 0.0%. The 1979 and 1980 baselines were also close, both within a 0.1% error. The 1994 baseline was the least accurate projection of the 2000 population with an absolute percent error of 37.4%. The 1967 baseline, the oldest projection of the 2000 population, had an absolute percent error of 16.7%. The average absolute percent error of all baselines for the 2000 population projection was 10.1%.

Overall, the 2000 baseline was the most accurate population projection with a mean absolute percent error of 0.0%. The 1994 baseline was the least accurate population projection with a mean absolute percent error of 25.5%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 10.7%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 13.8%, compared to 28.7% and 938.3% for births and net migration, respectively.

Figure 9.1
Population Components

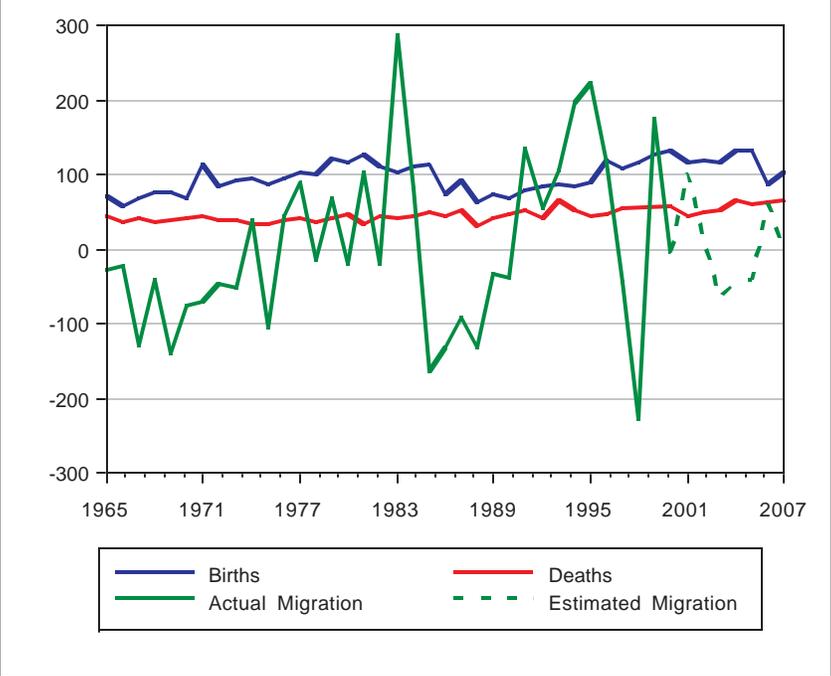
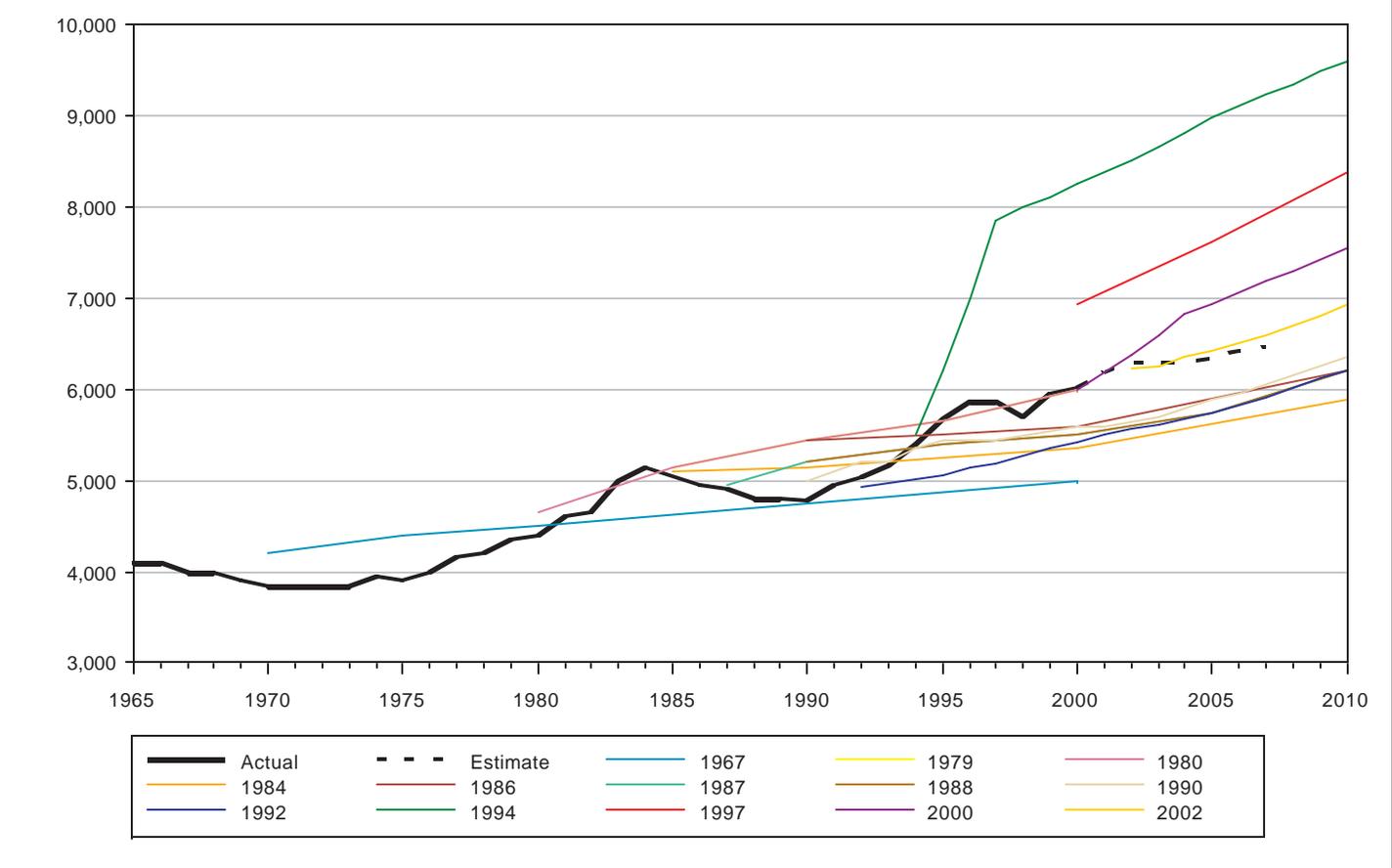
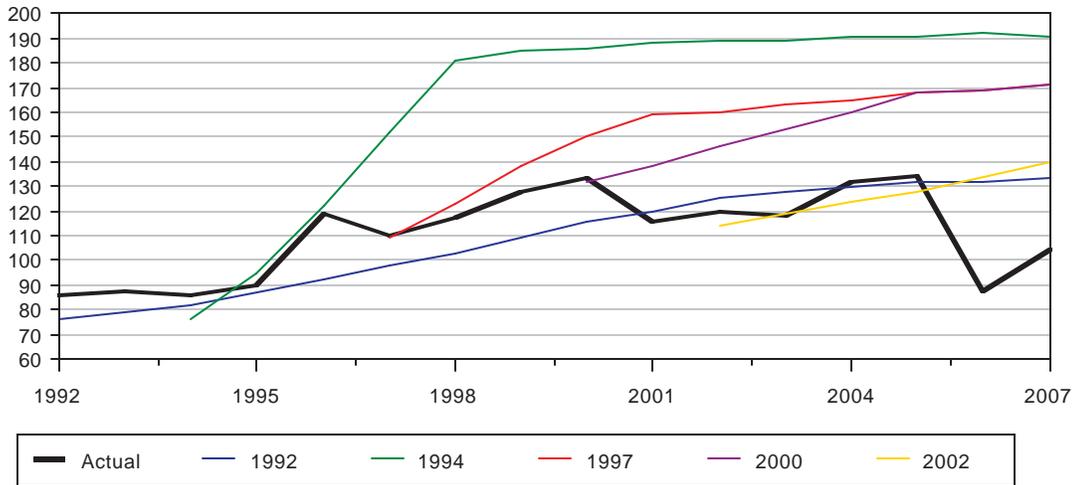


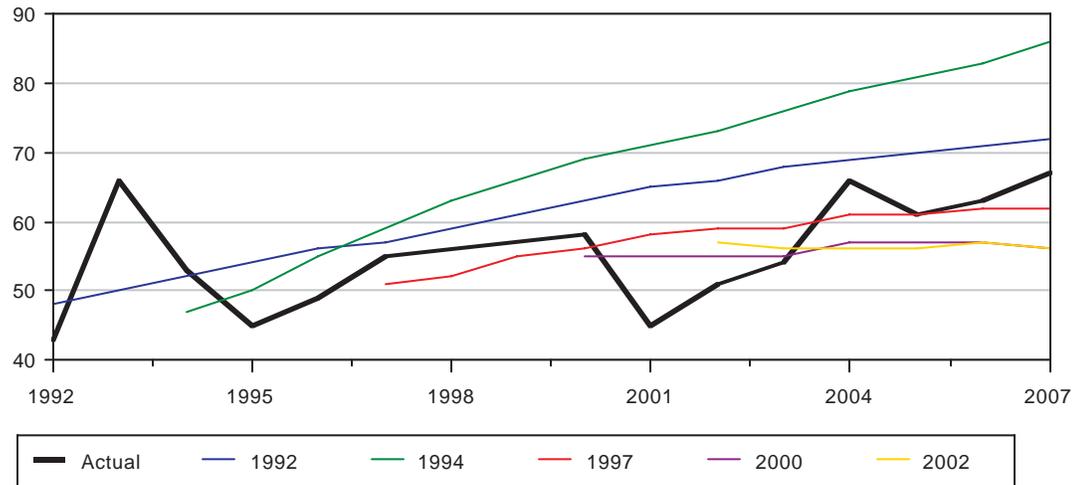
Figure 9.2
Population Projections



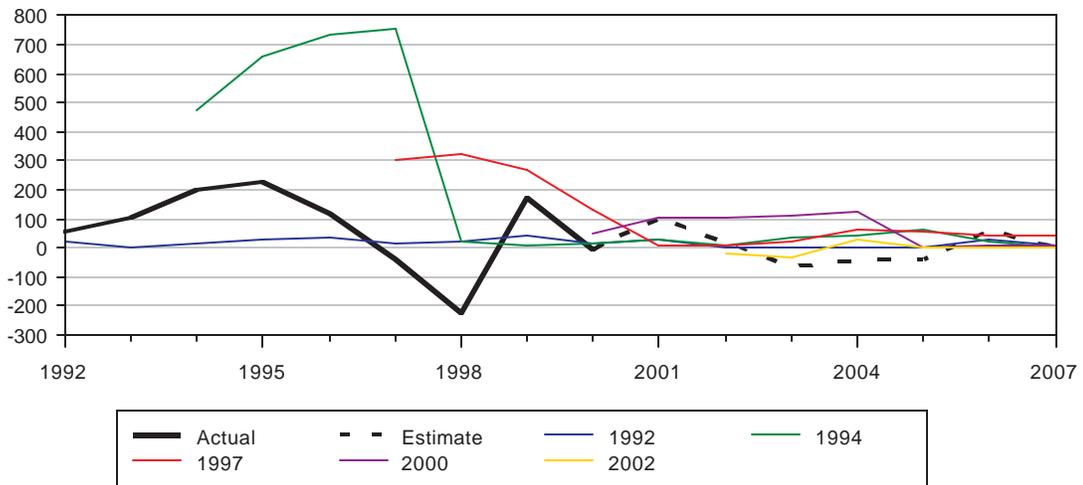
**Figure 9.3
Birth Projections**



**Figure 9.4
Death Projections**



**Figure 9.5
Migration Projections**



Population

Net Migration

Figure 9.6

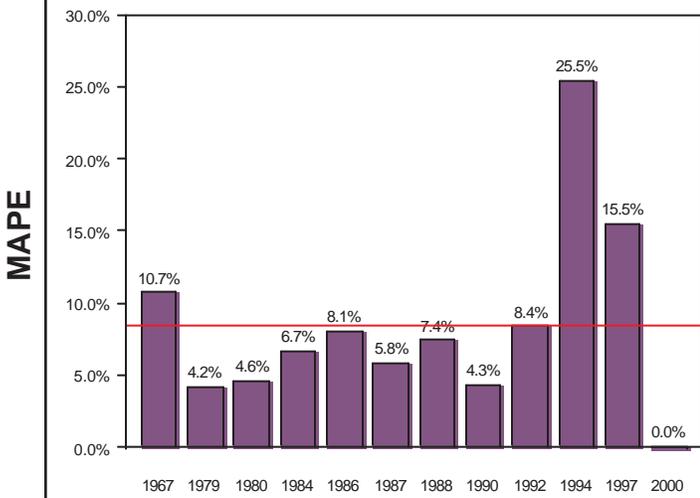


Figure 9.9

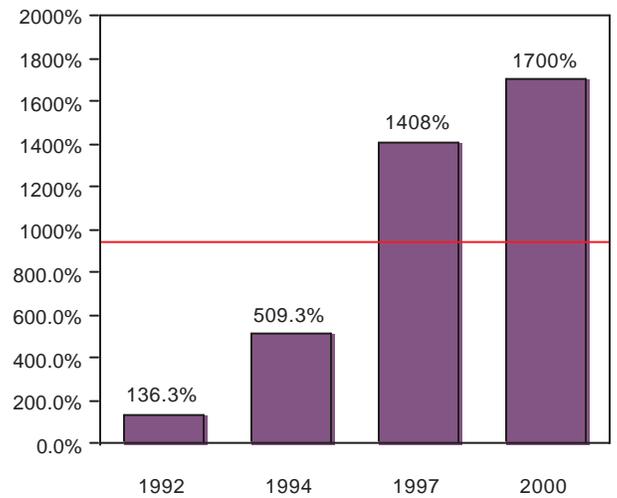


Figure 9.7

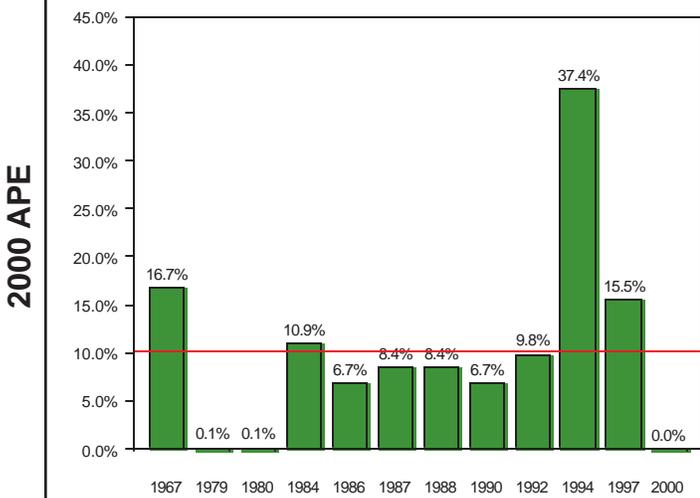


Figure 9.10

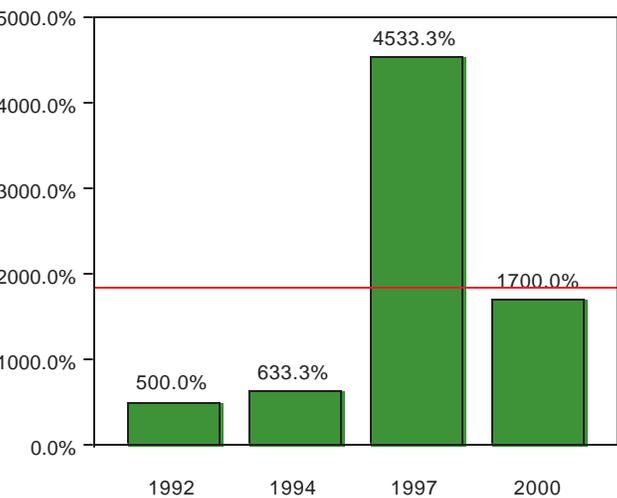


Figure 9.8

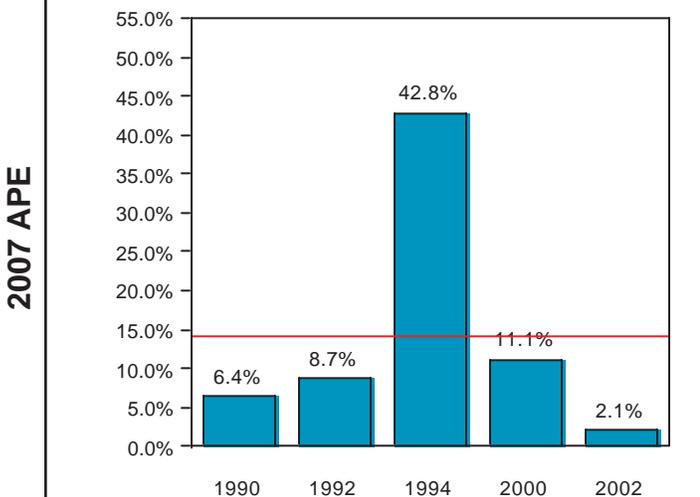
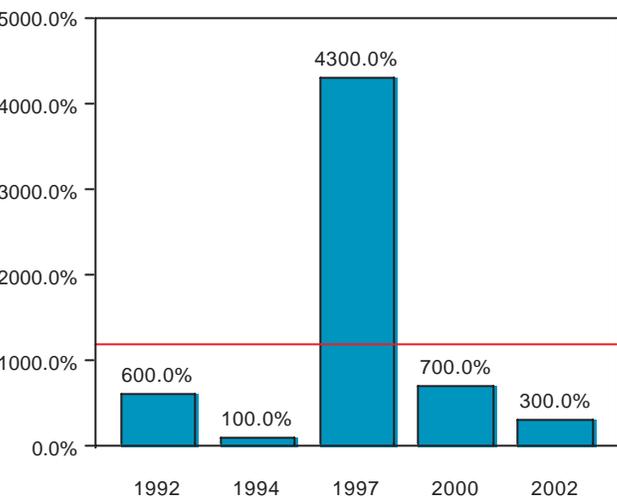


Figure 9.11



Births

Deaths

Figure 9.12

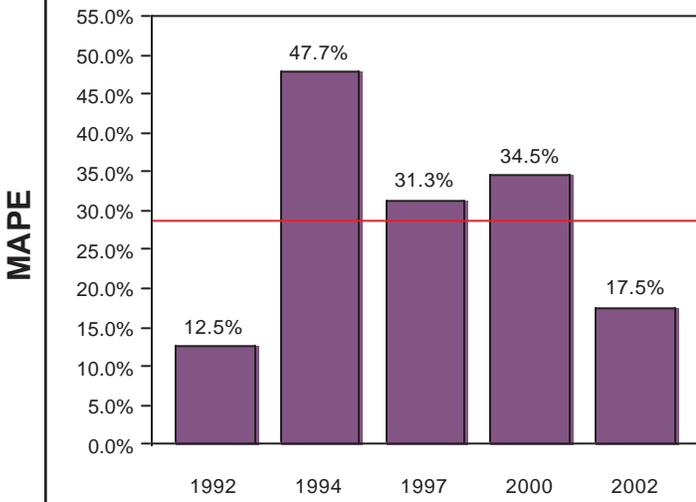


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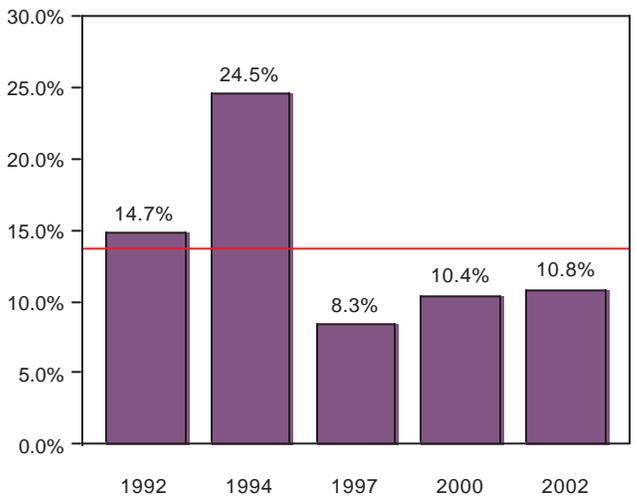


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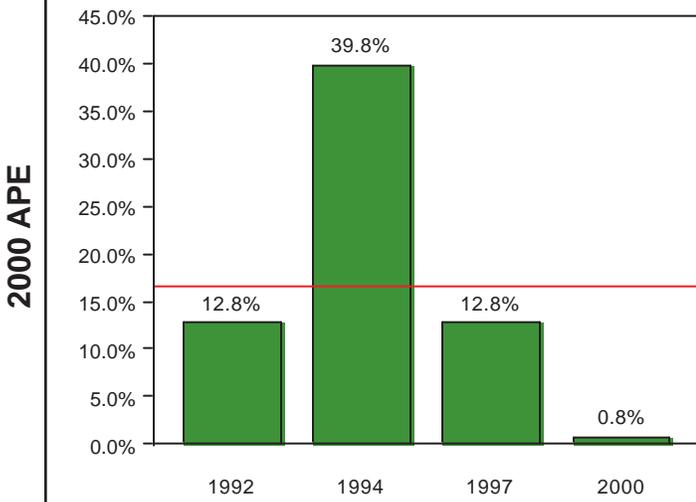


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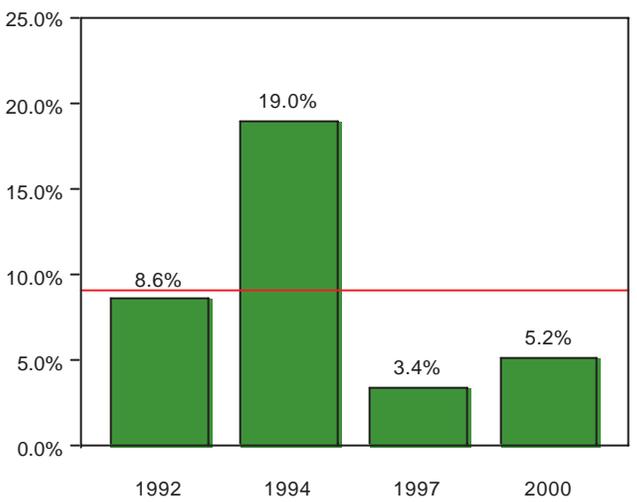


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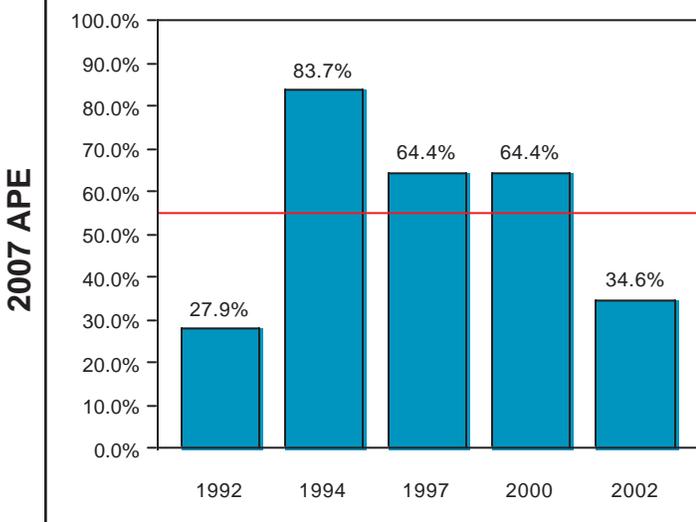
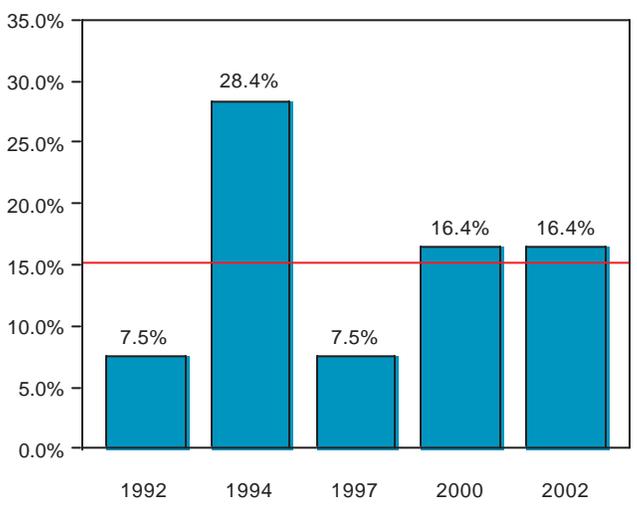


Figure 9.17



Box Elder County

The 1997 baseline was the most accurate projection of the 2000 population with an absolute percent error of 0.2%. The 1987, 1988, 1994, and 2000 baselines were also close, all within a 2.0% error. The 1967 baseline, the oldest projection of the 2000 population, was the least accurate projection with an absolute percent error of 31.0%. The average absolute percent error of all baselines for the 2000 population projection was 8.0%.

Overall, the 1997 baseline was the most accurate population projection with a mean absolute percent error of 0.2%. The 1967 baseline, the oldest projection, was the least accurate population projection with a mean absolute percent error of 19.7%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 4.8%, compared to 21.5% and 543.4% for births and net migration, respectively.

Figure 10.1
Population Components

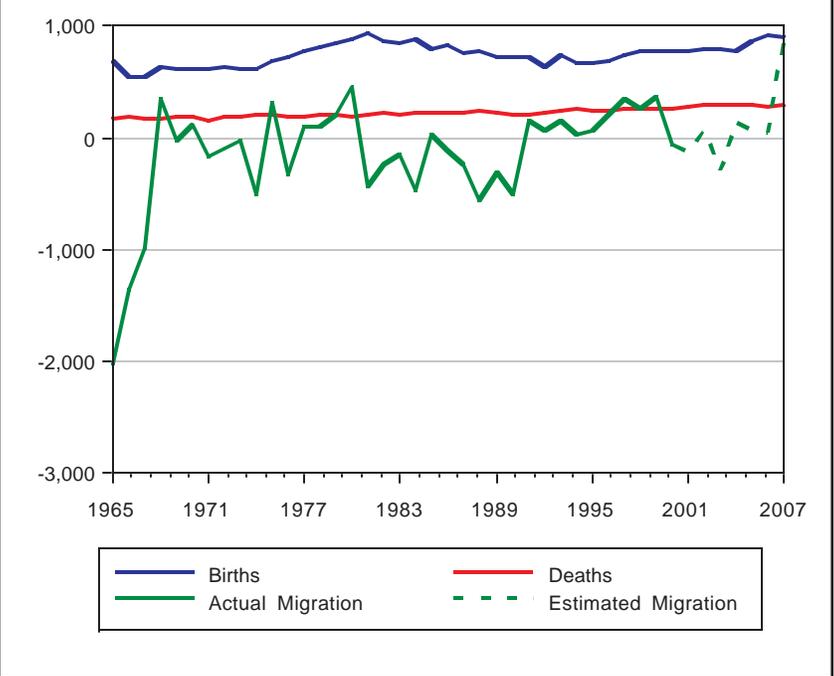


Figure 10.2
Population Projections

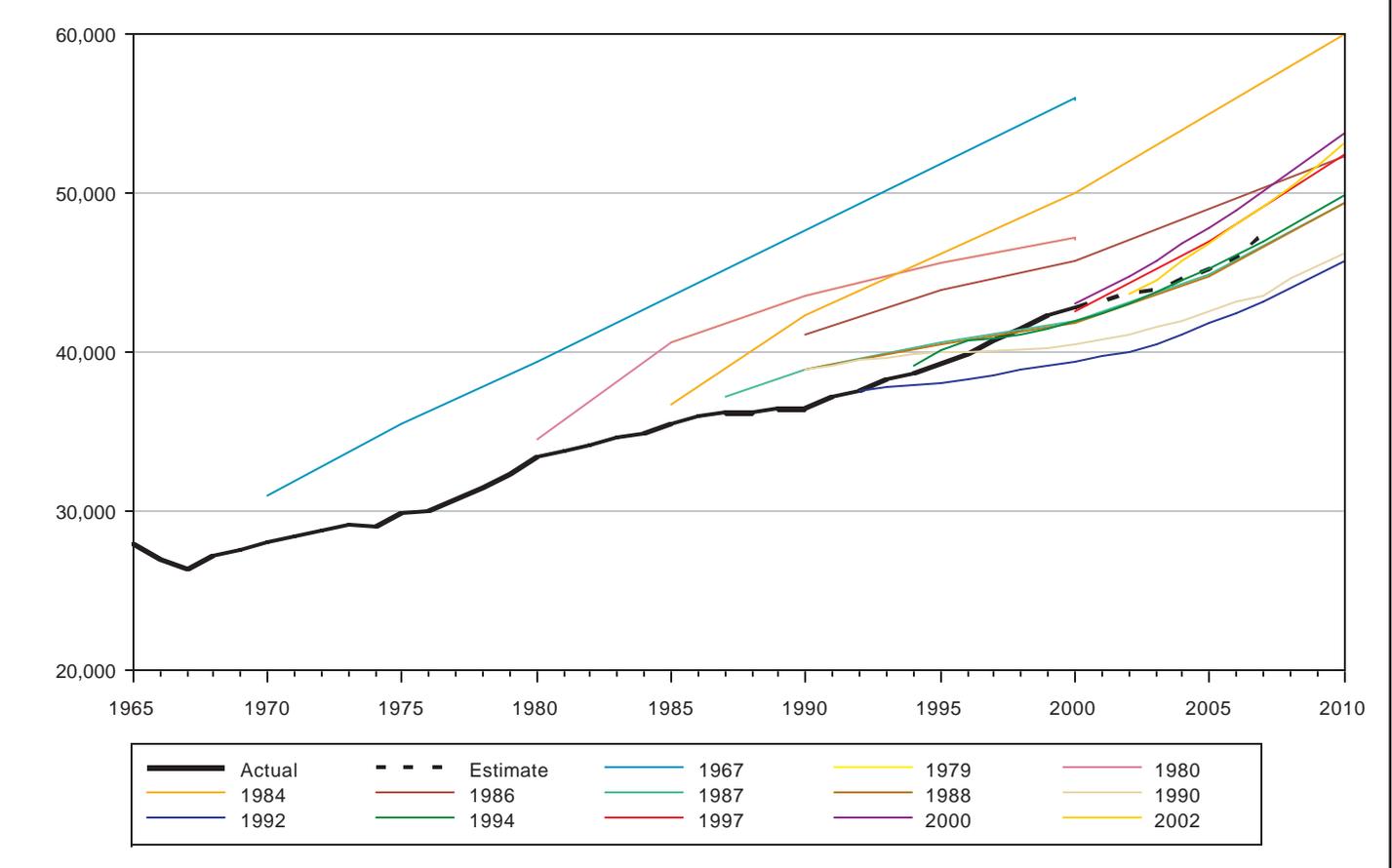


Figure 10.3
Birth Projections

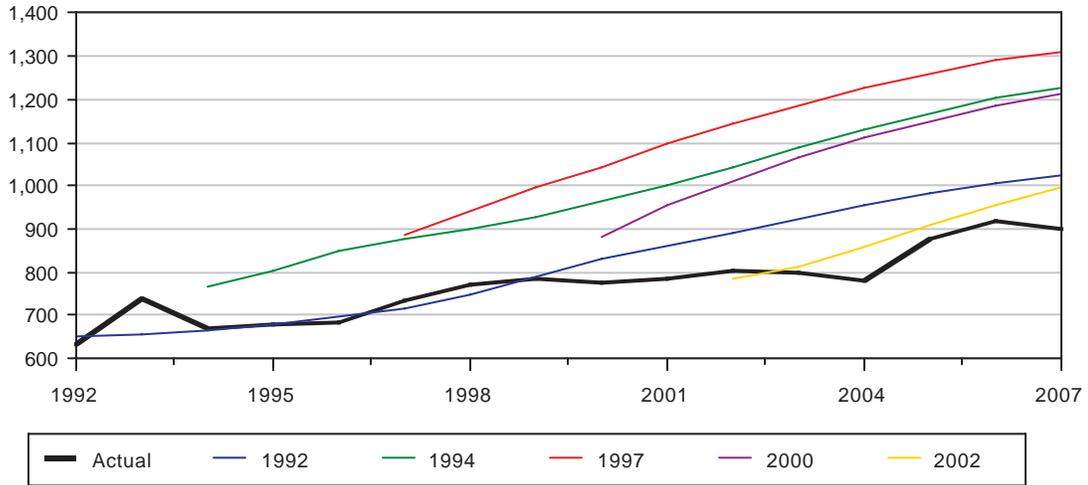


Figure 10.4
Death Projections

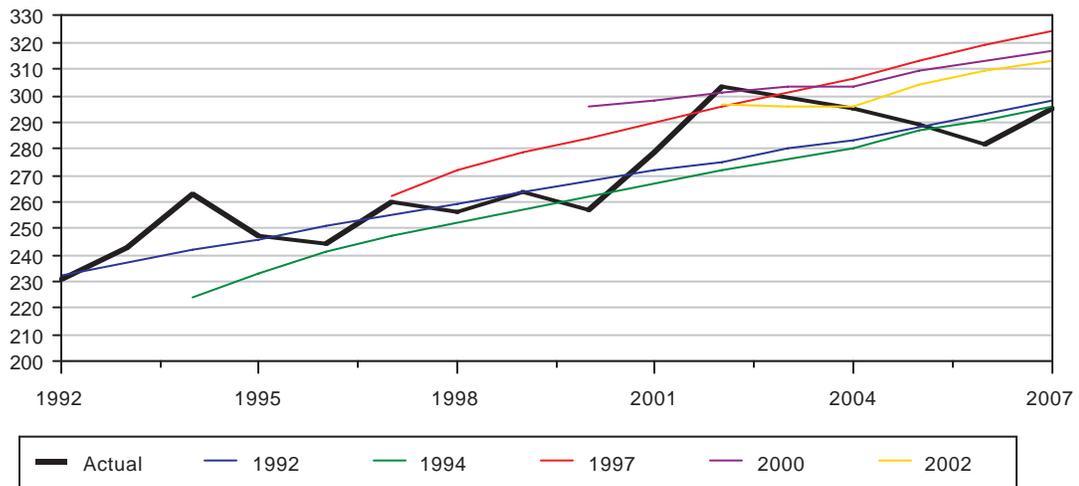
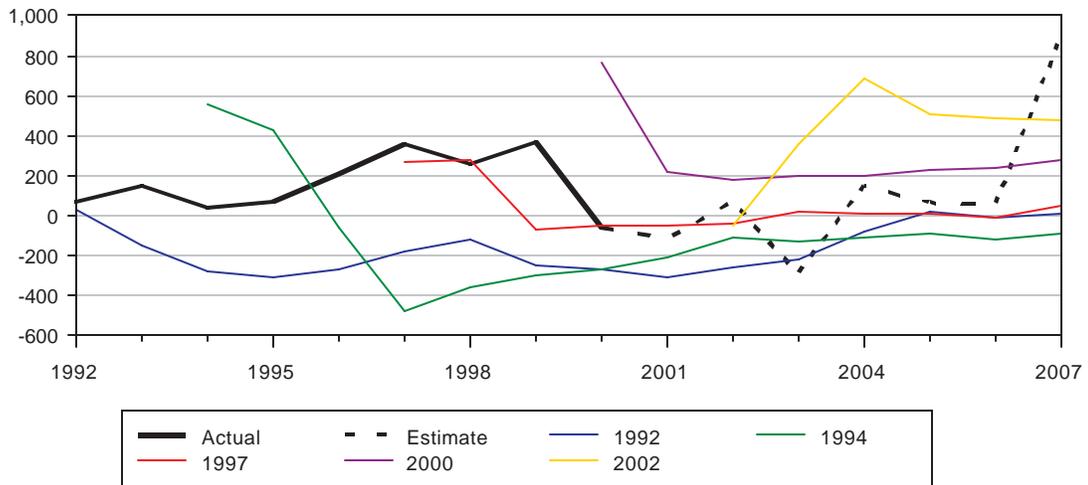


Figure 10.5
Migration Projections



Box Elder County

Population

Net Migration

Figure 10.6

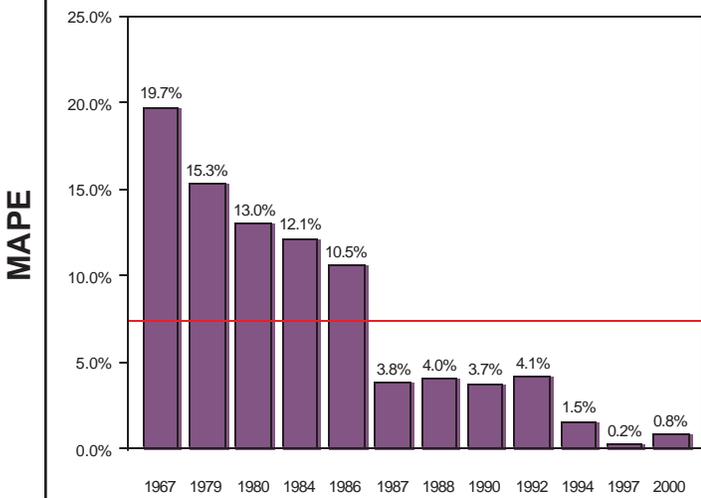


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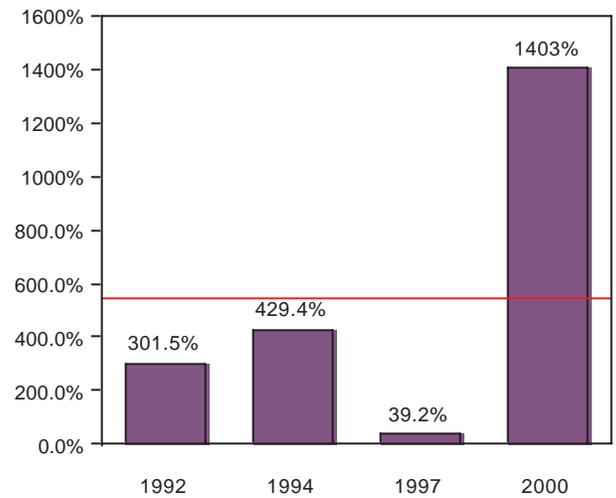


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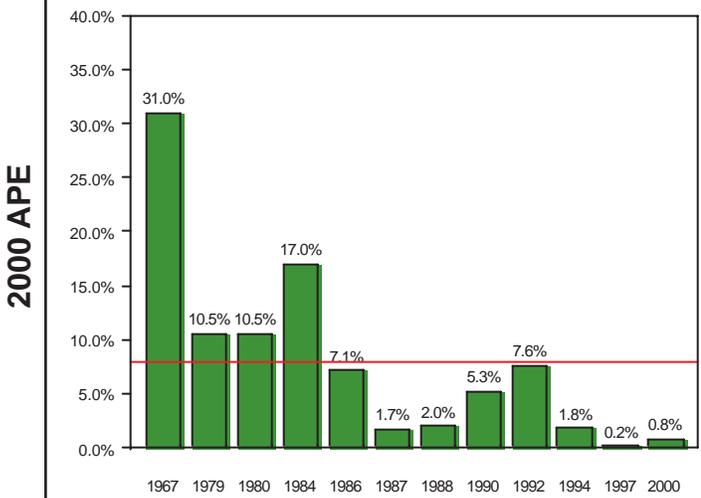


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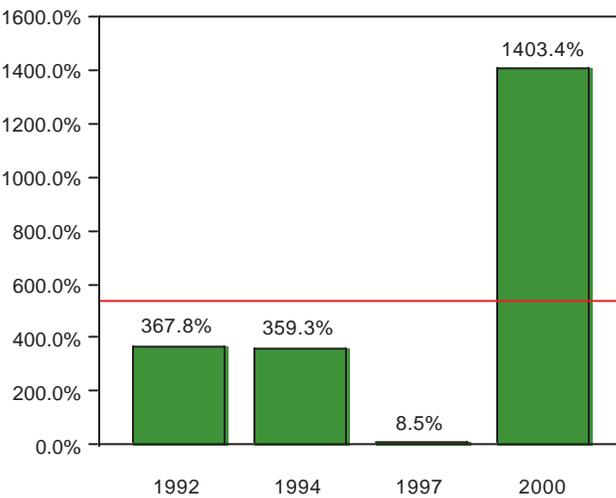


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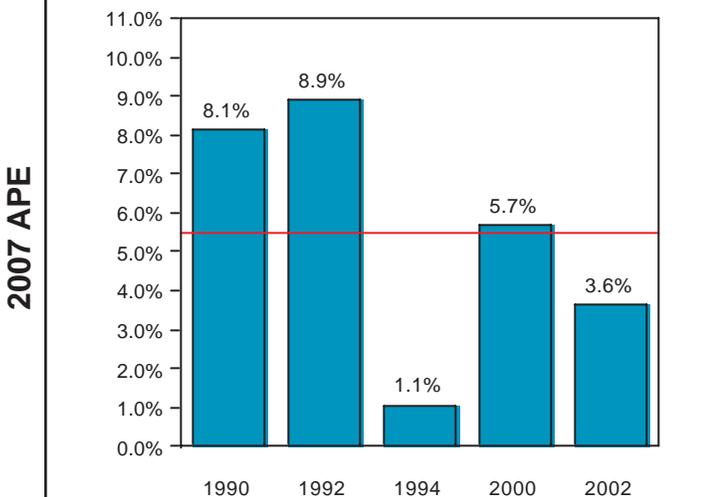
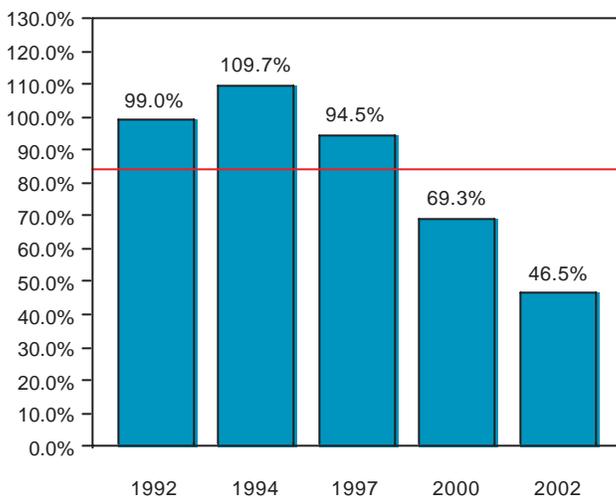


Figure 10.11



Births

Deaths

Figure 10.12

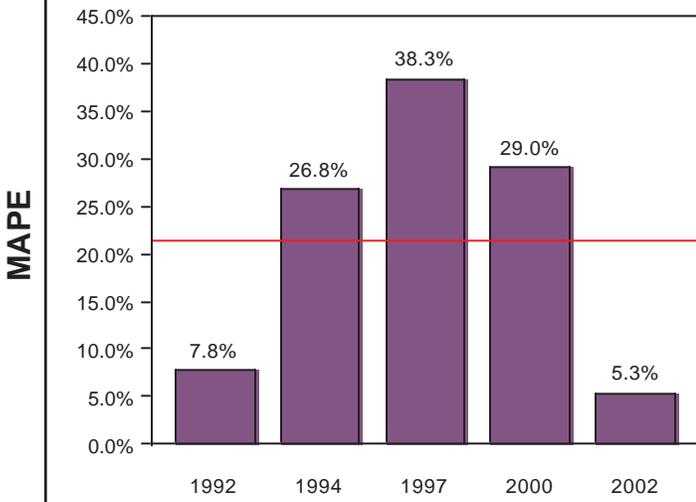


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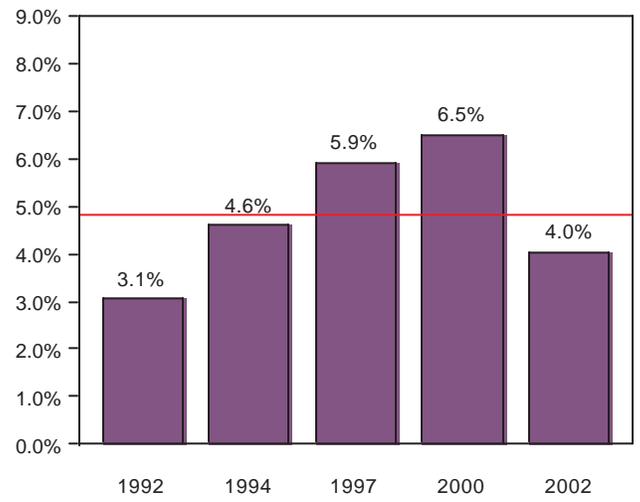


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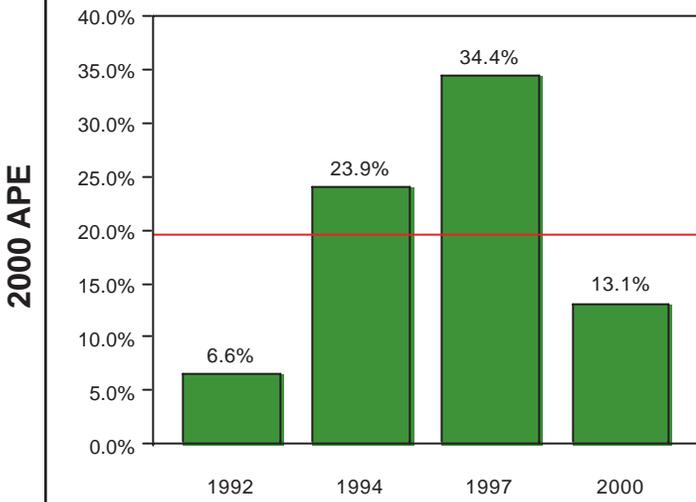


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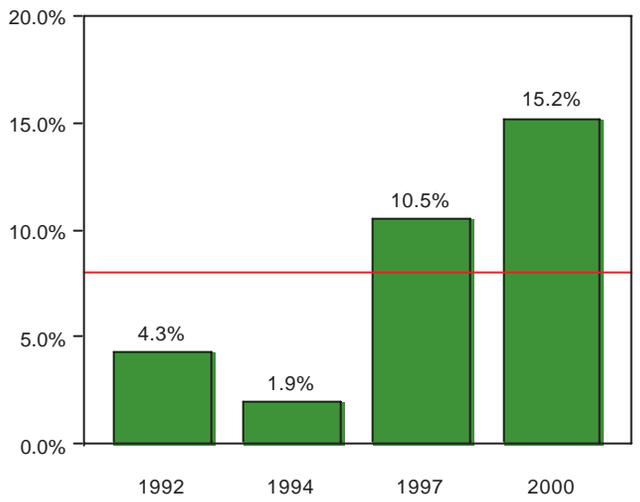


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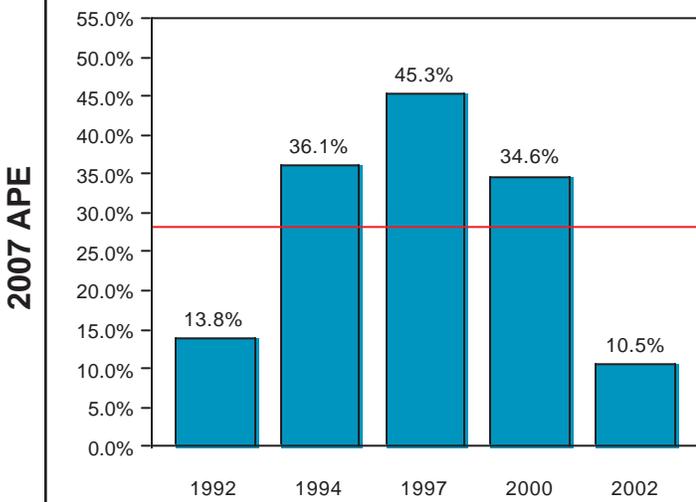
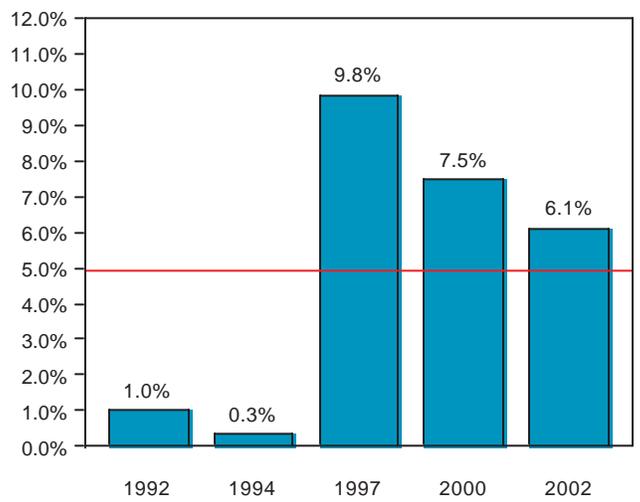


Figure 10.17



Cache County

The 1997 baseline was the most accurate projection of the 2000 population with an absolute percent error of 2.2%. The 1979, 1980, 1984, 1986, and 2000 baselines were also close, all within a 4.5% error. The 1967 baseline, the oldest projection of the 2000 population, was the least accurate projection with an absolute percent error of 28.9%. The average absolute percent error of all baselines for the 2000 population projection was 9.4%.

Overall, the 1997 baseline was the most accurate population projection with a mean absolute percent error of 2.2%. The 1992 baseline was the least accurate population projection with a mean absolute percent error of 11.2%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 11.1%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 11.9%, compared to 14.9% and 290.3% for births and net migration, respectively.

Figure 11.1
Population Components

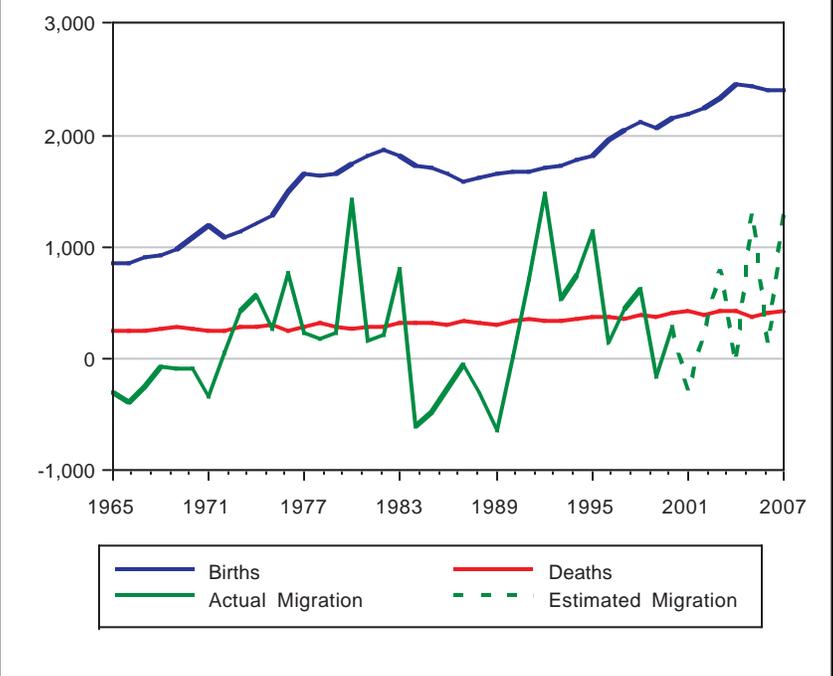
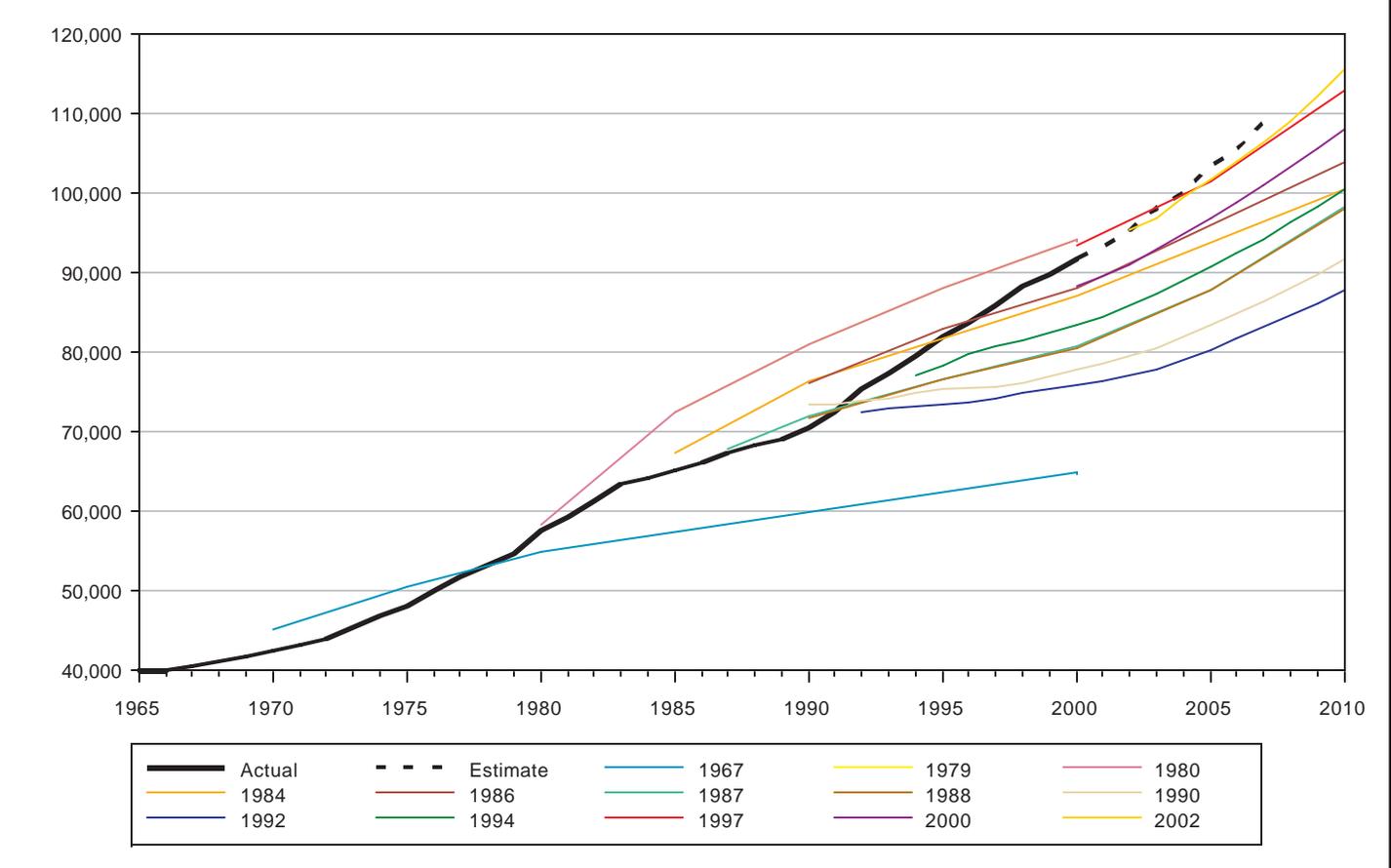
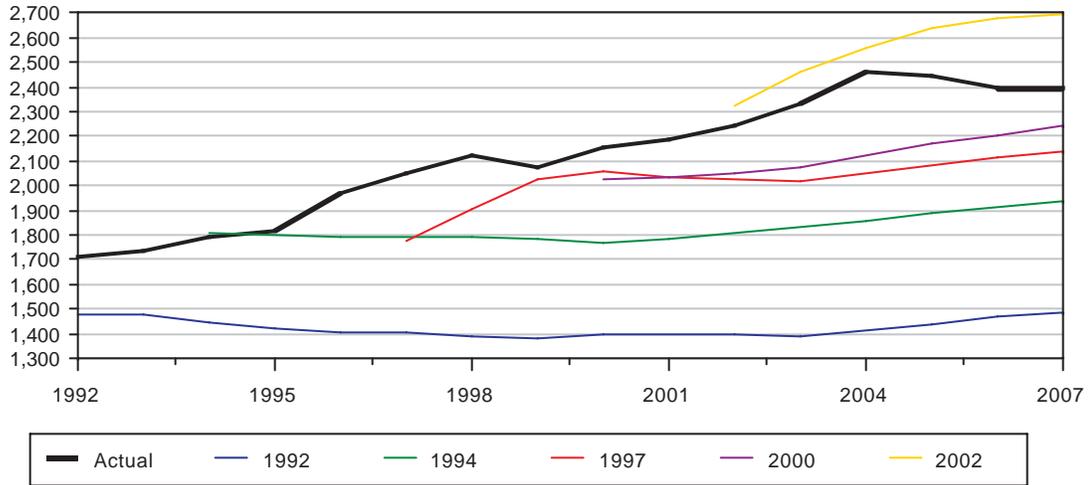


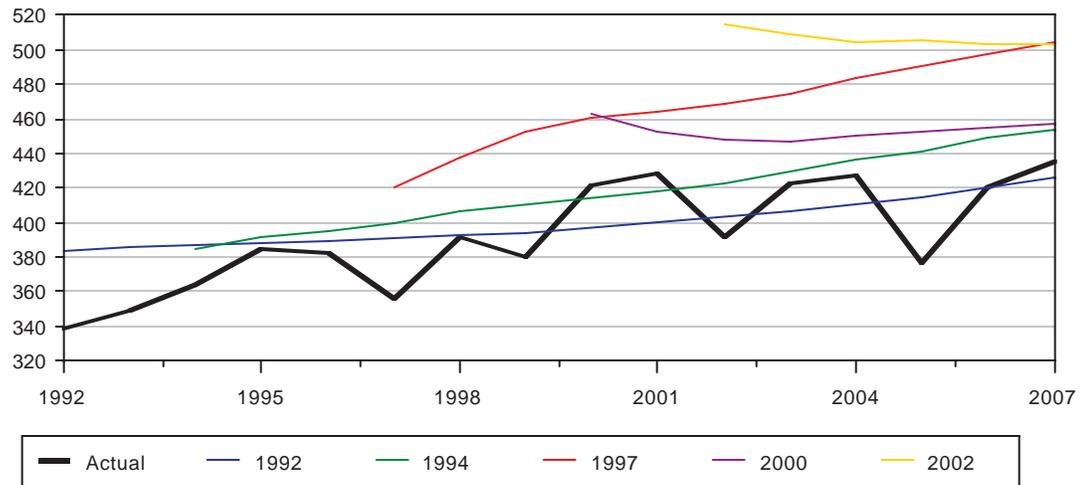
Figure 11.2
Population Projections



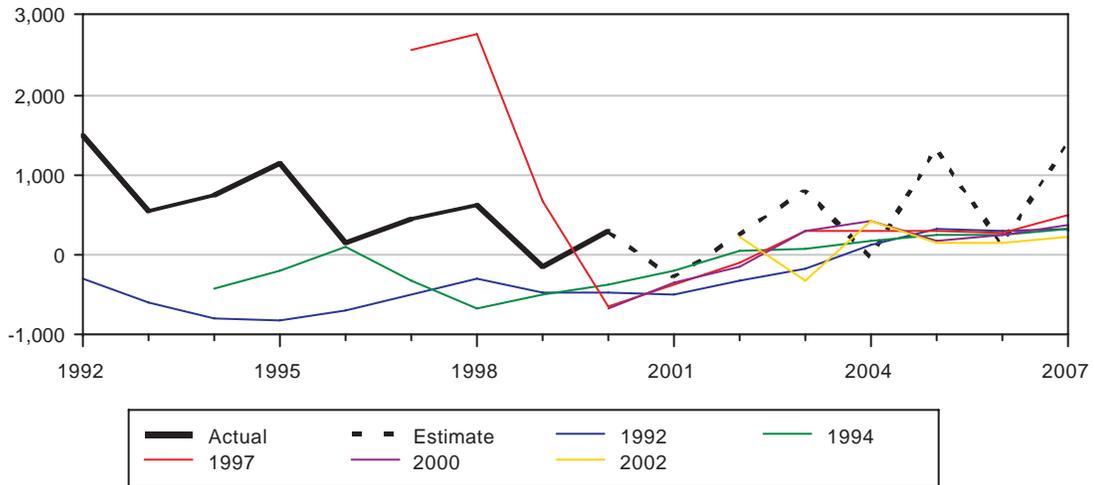
**Figure 11.3
Birth Projections**



**Figure 11.4
Death Projections**



**Figure 11.5
Migration Projections**



Population

Net Migration

Figure 11.6

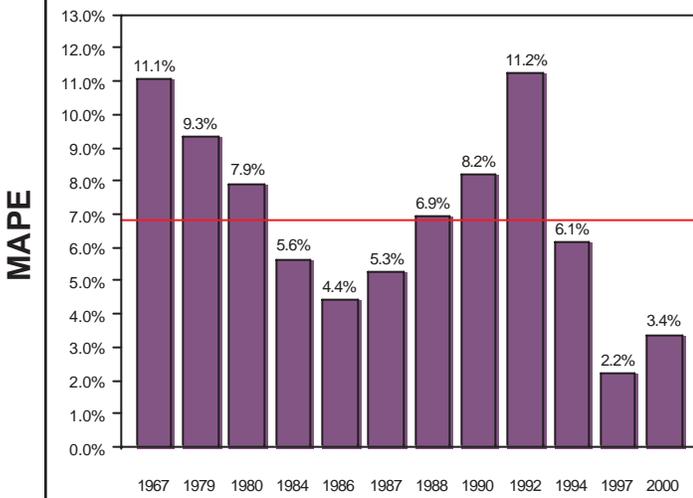


Figure 11.9

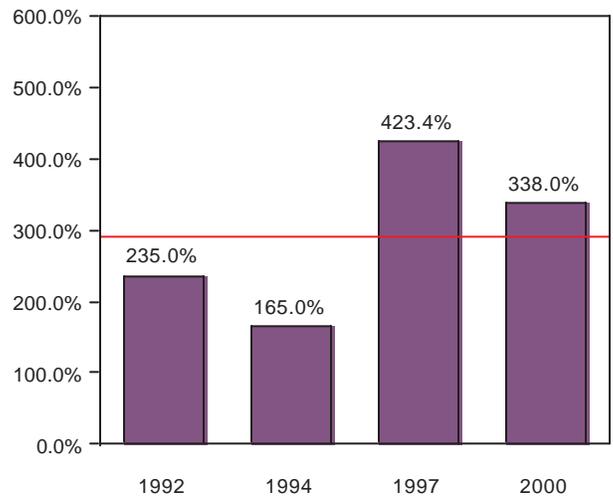


Figure 11.7

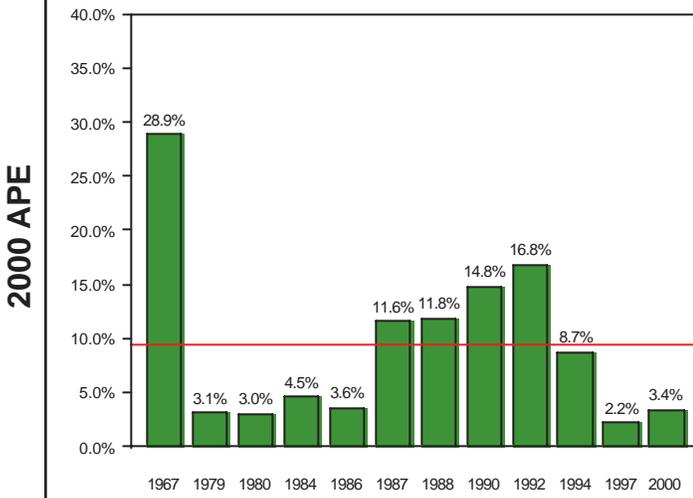


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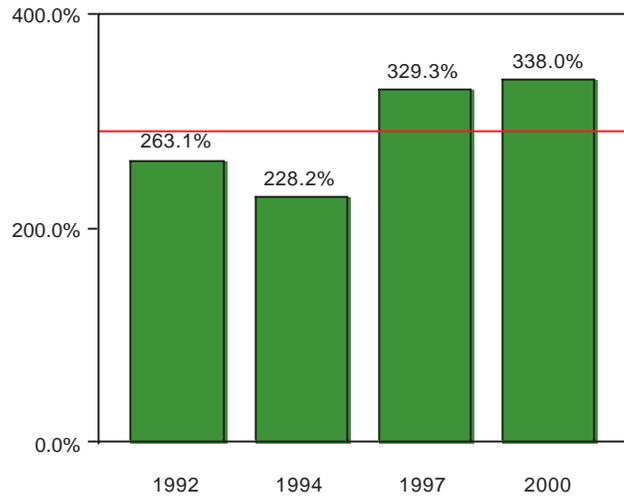


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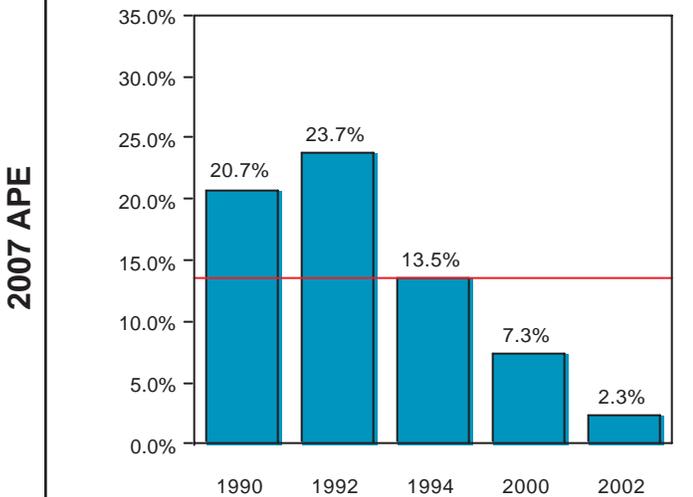
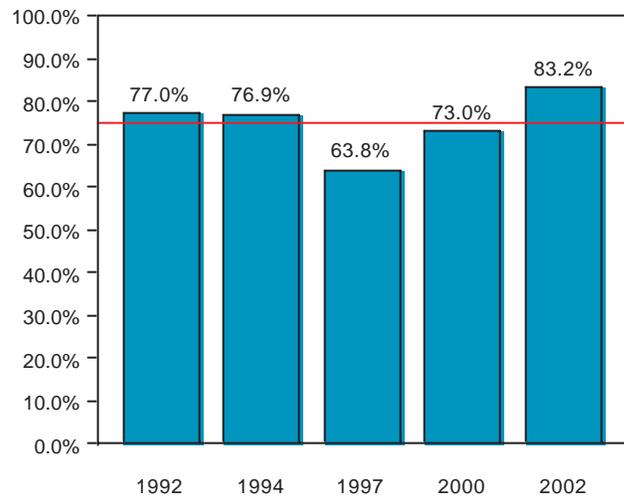


Figure 11.11



Births

Deaths

Figure 11.12

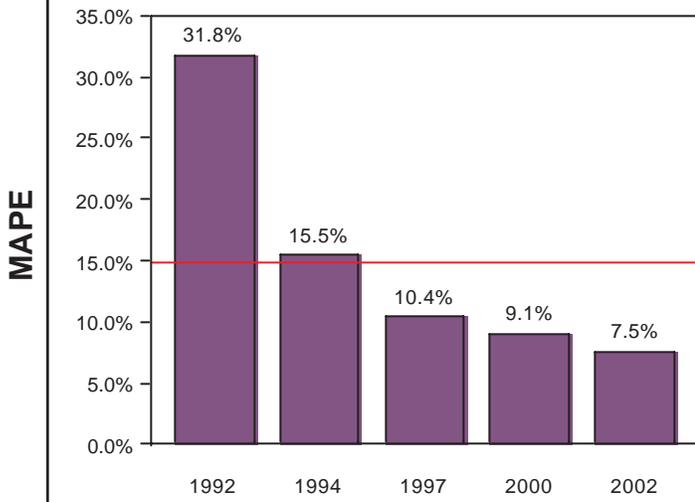


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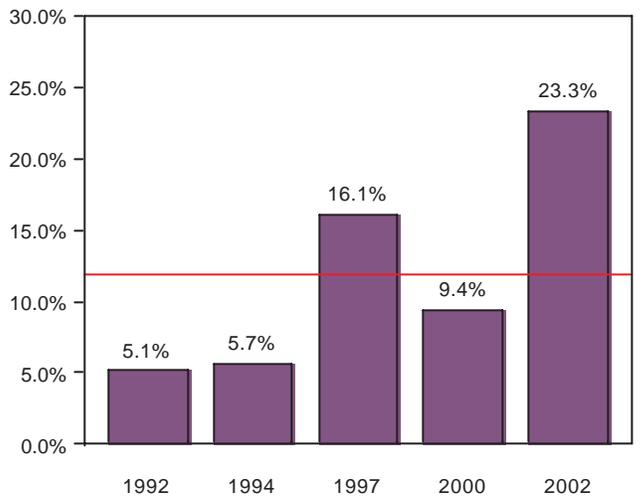


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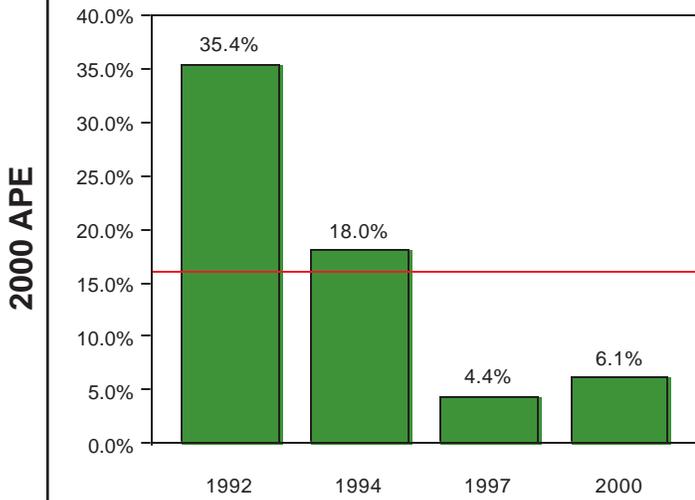


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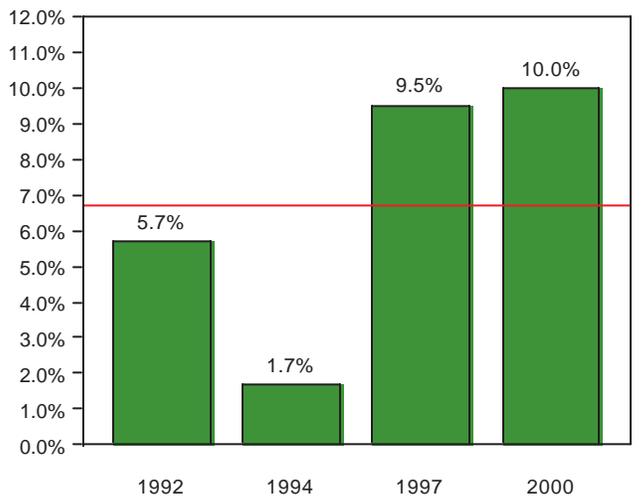


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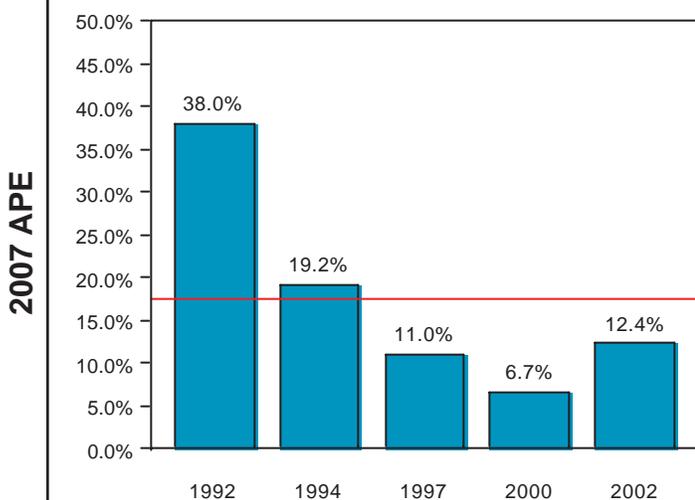
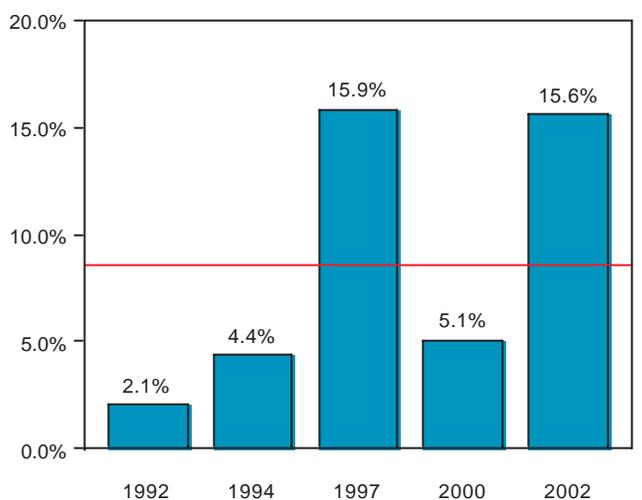


Figure 11.17



Carbon County

The 1994 baseline was the most accurate projection of the 2000 population with an absolute percent error of 4.4%. The 1990, 1992, and 2000 baselines were also close, all within an 8.7% error. The 1980 baseline was the least accurate projection of the 2000 population with an absolute percent error of 57.9%. The 1967 baseline, the oldest projection of the 2000 population, had an absolute percent error of 22.4%. The average absolute percent error of all baselines for the 2000 population projection was 25.0%.

Overall, the 1994 baseline was the most accurate population projection with a mean absolute percent error of 4.2%. The 1979 baseline was the least accurate population projection with a mean absolute percent error of 50.6%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 12.2%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 9.0%, compared to 21.5% and 144.3% for deaths and net migration, respectively.

Figure 12.1
Population Components

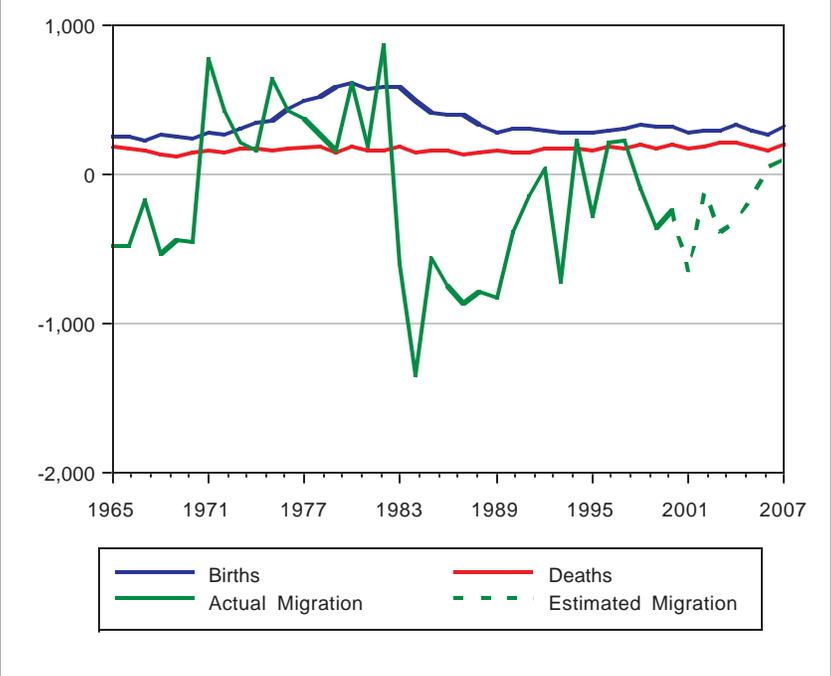


Figure 12.2
Population Projections

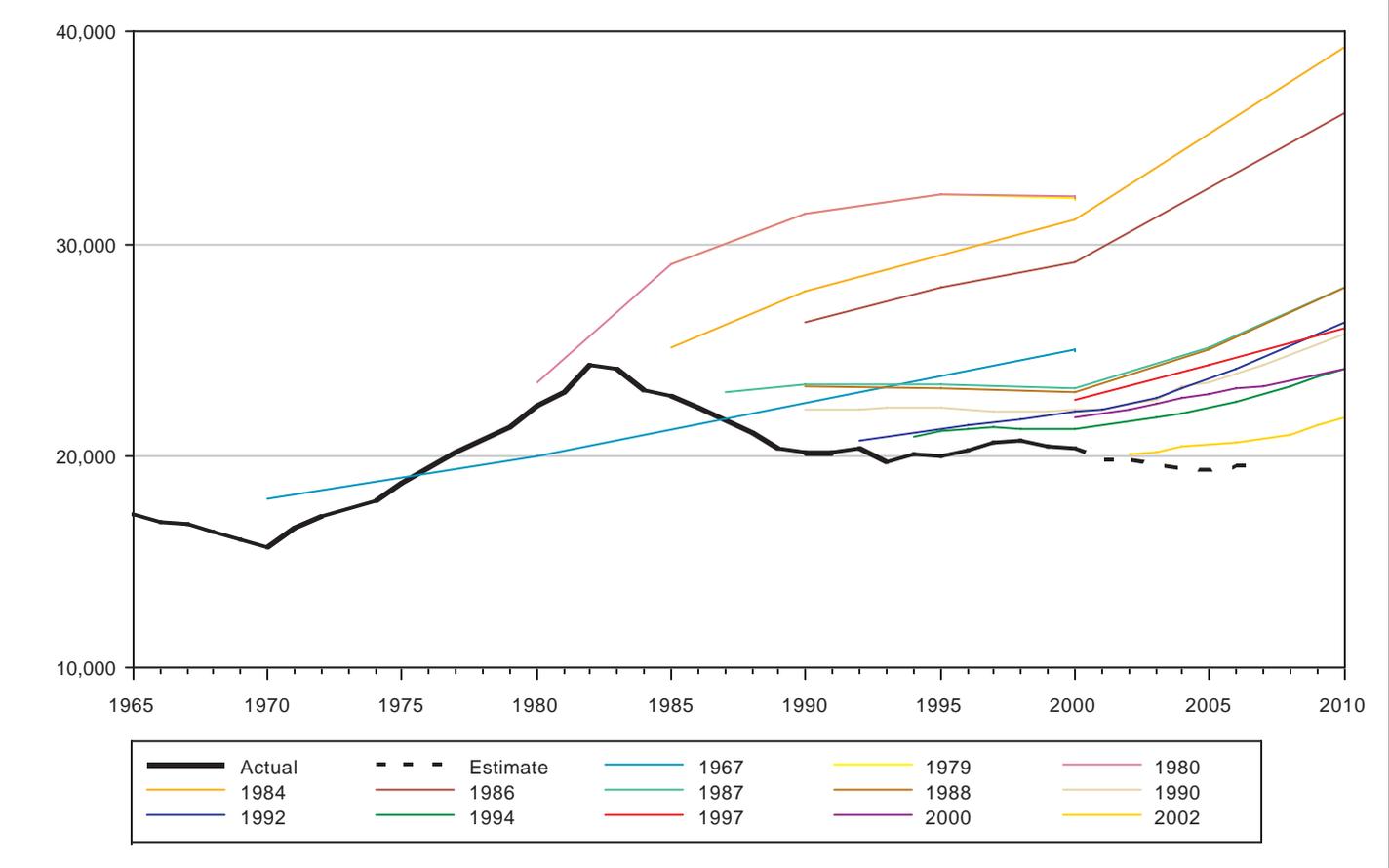


Figure 12.3
Birth Projections

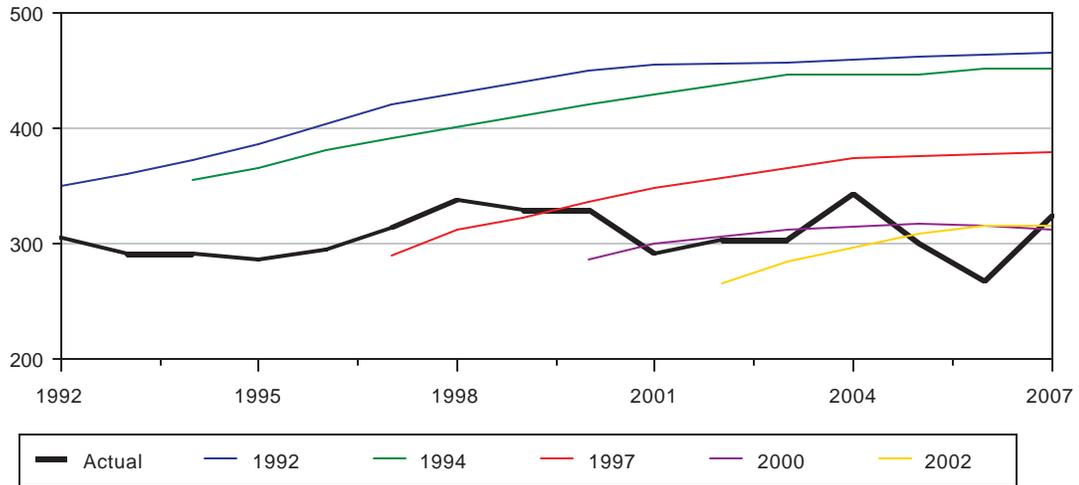


Figure 12.4
Death Projections

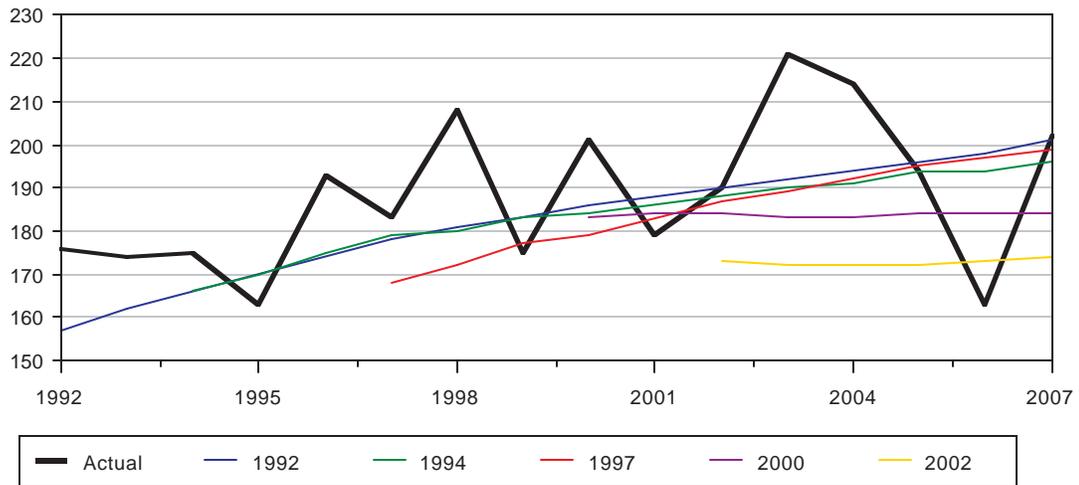
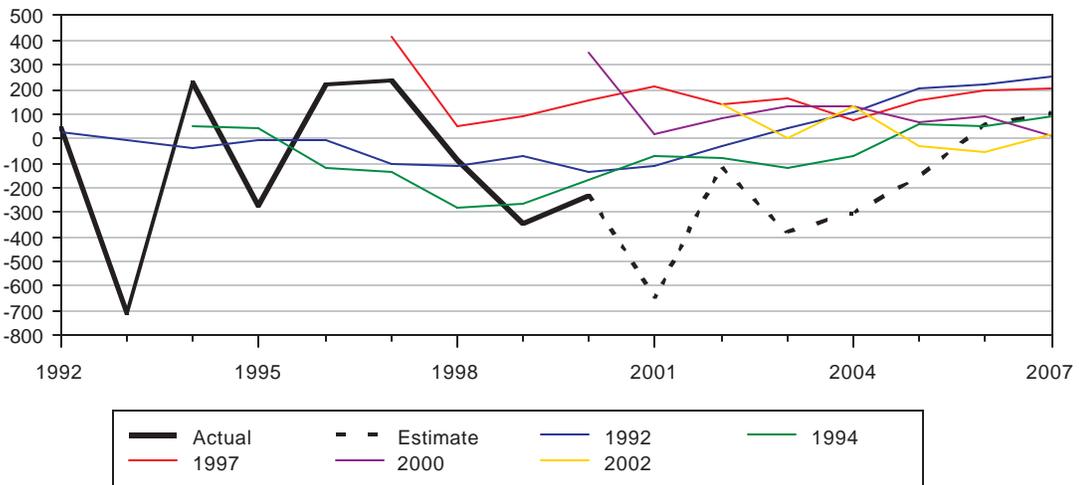


Figure 12.5
Migration Projections



Population

Net Migration

Figure 12.6

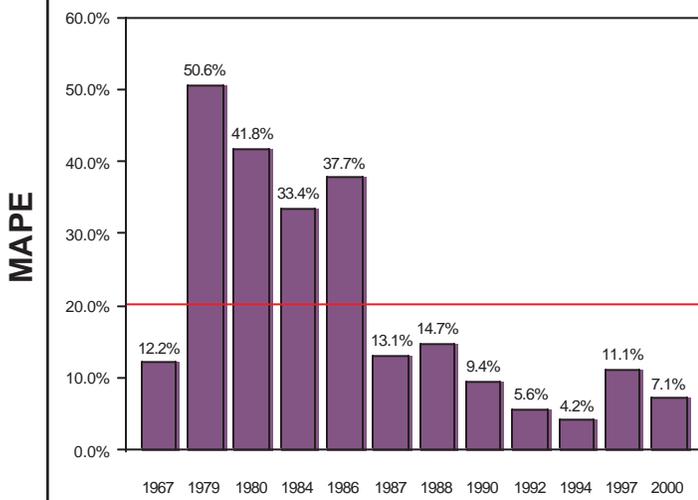


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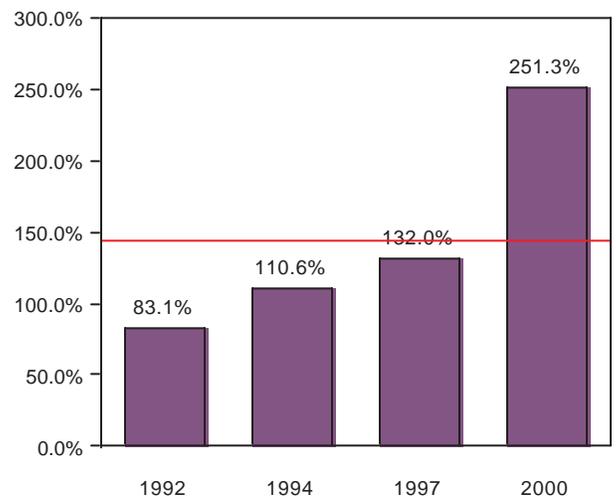


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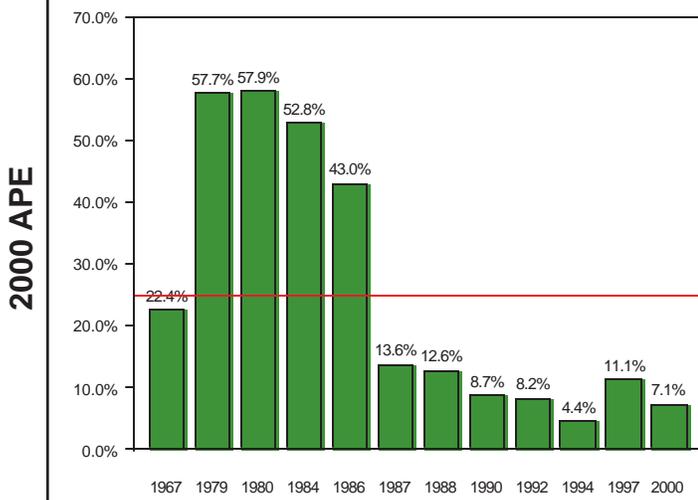


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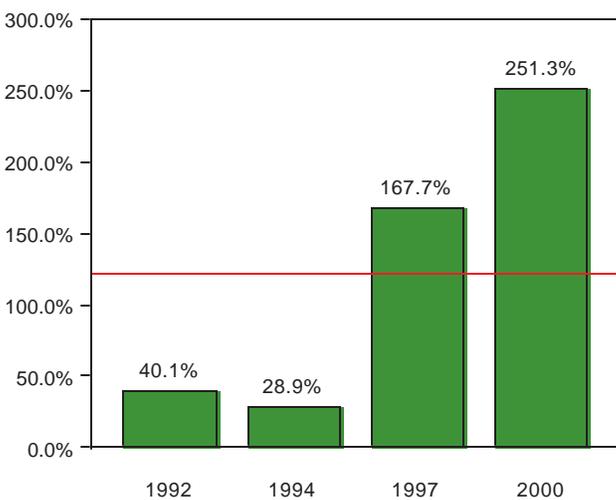


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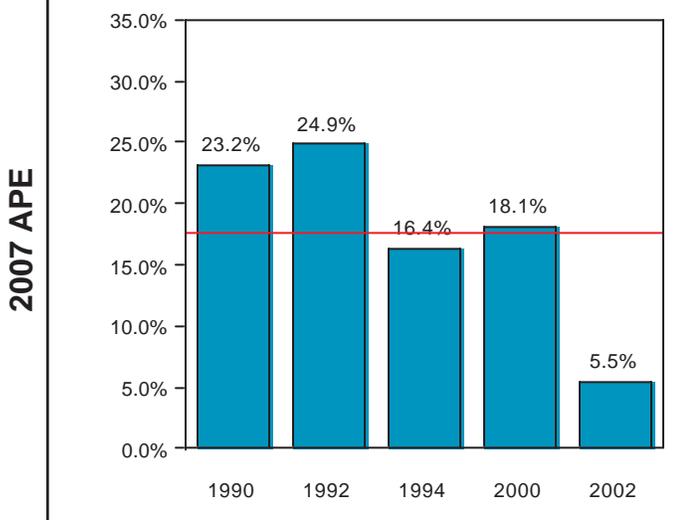
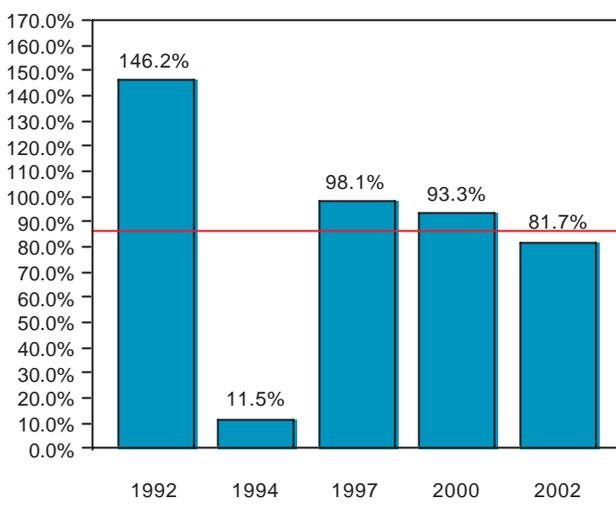


Figure 12.11



Births

Deaths

Figure 12.12

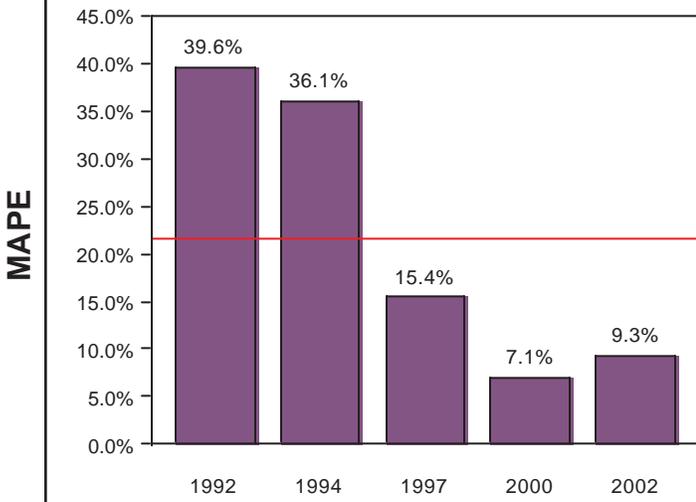


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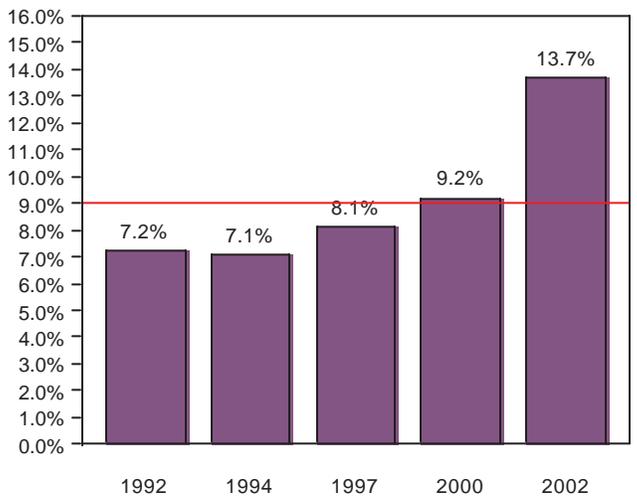


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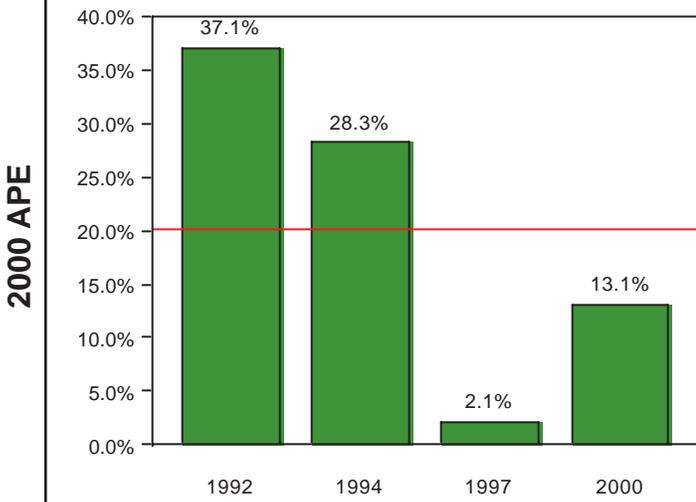


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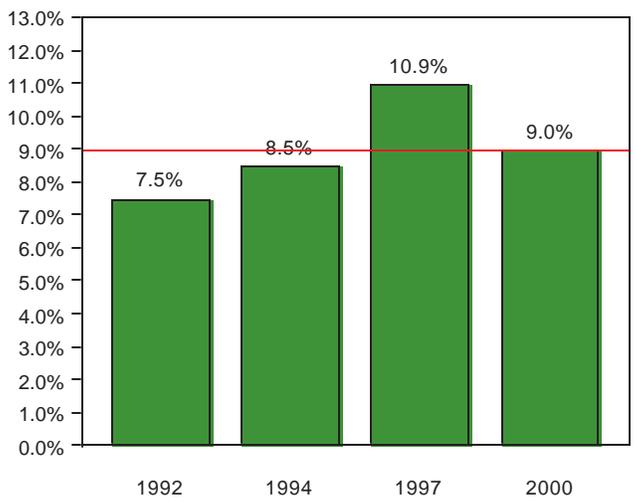


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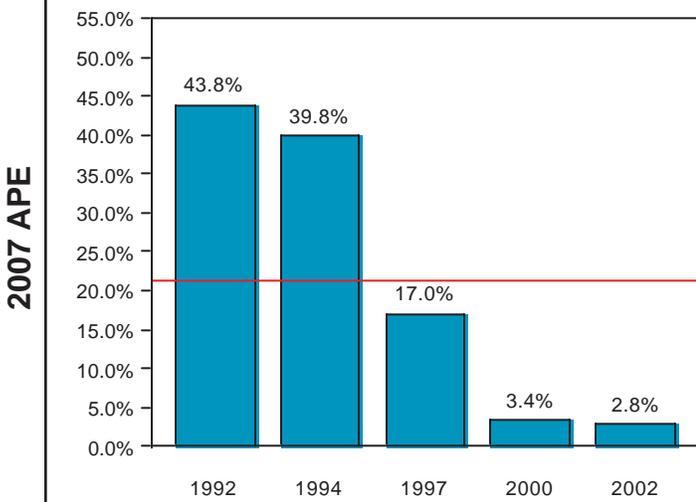
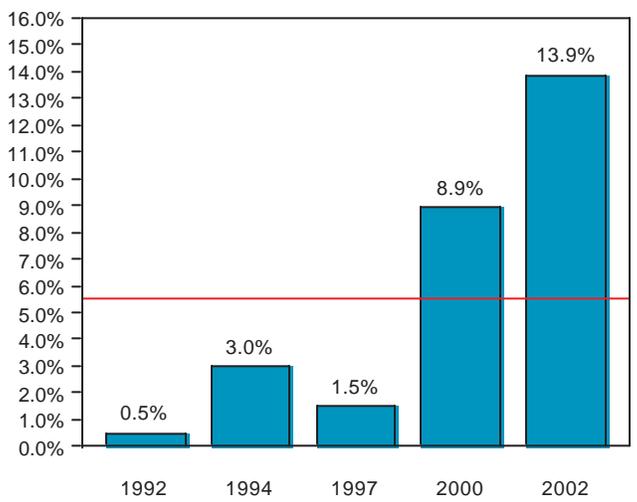


Figure 12.17



Daggett County

The 1984 baseline was the most accurate projection of the 2000 population with an absolute percent error of 2.3%. The 1979, 1986, and 1997 baselines were also close, all within a 13.1% error. The 1967 baseline, the oldest projection of the 2000 population, was the least accurate projection with an absolute percent error of 62.9%. The average absolute percent error of all baselines for the 2000 population projection was 22.1%.

Overall, the 1997 baseline was the most accurate population projection with a mean absolute percent error of 7.2%. The 1967 baseline, the oldest projection, was the least accurate population projection with a mean absolute percent error of 31.4%.

Of the components of population change, projections for births were most accurate with an overall mean absolute percent error for all baselines of 75.1%, compared to 187.5% and 112.5% for deaths and net migration, respectively.

Figure 13.1
Population Components

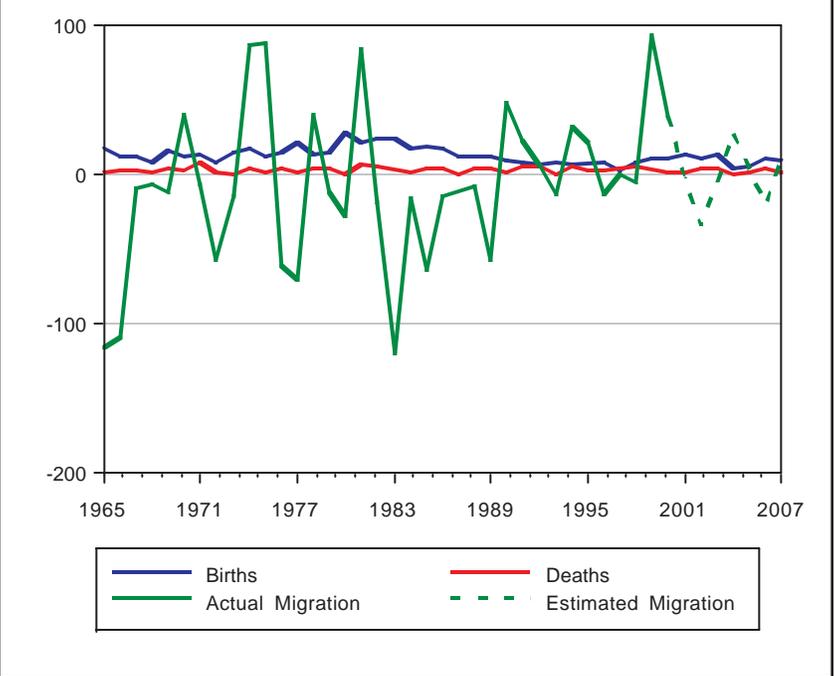
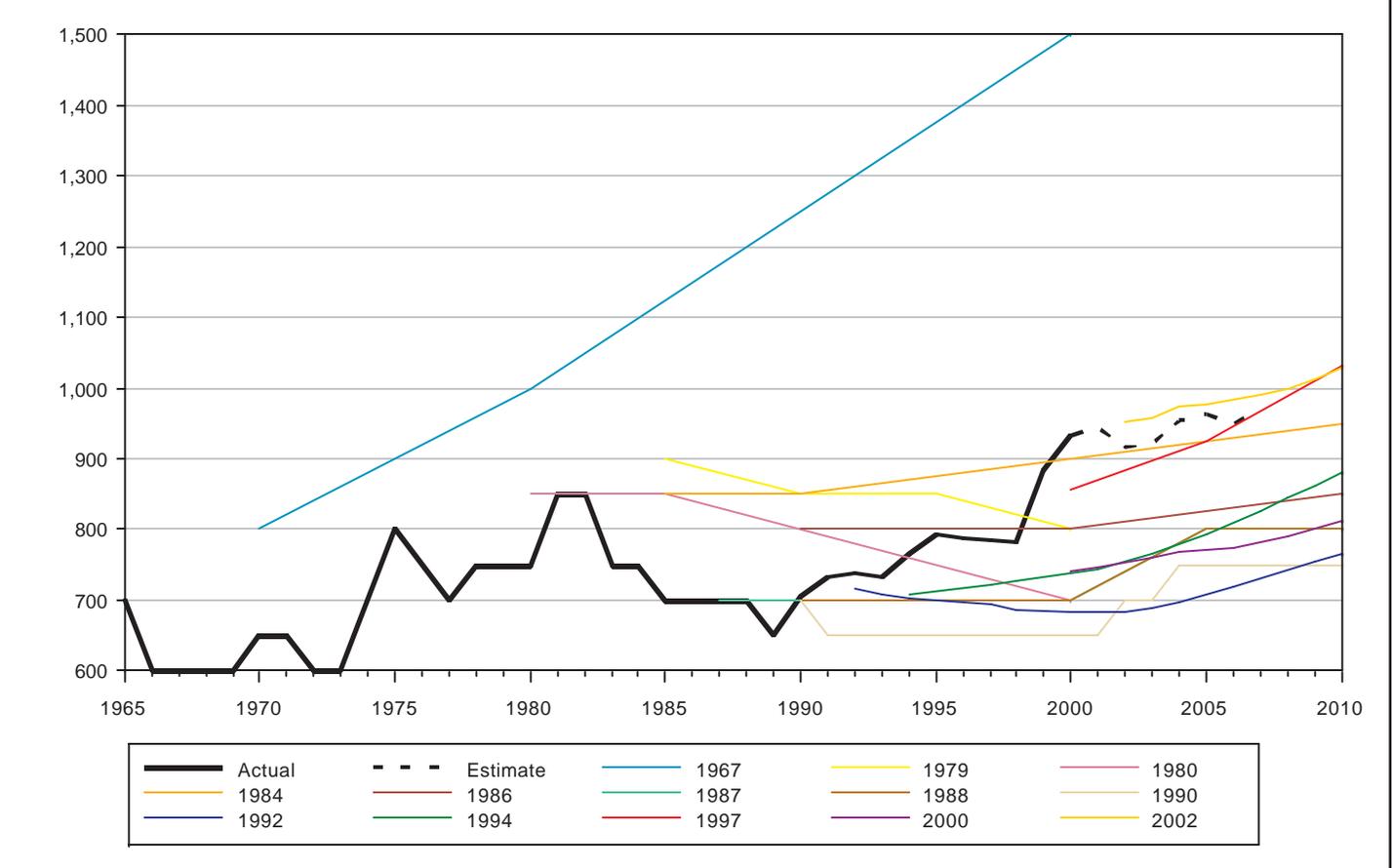
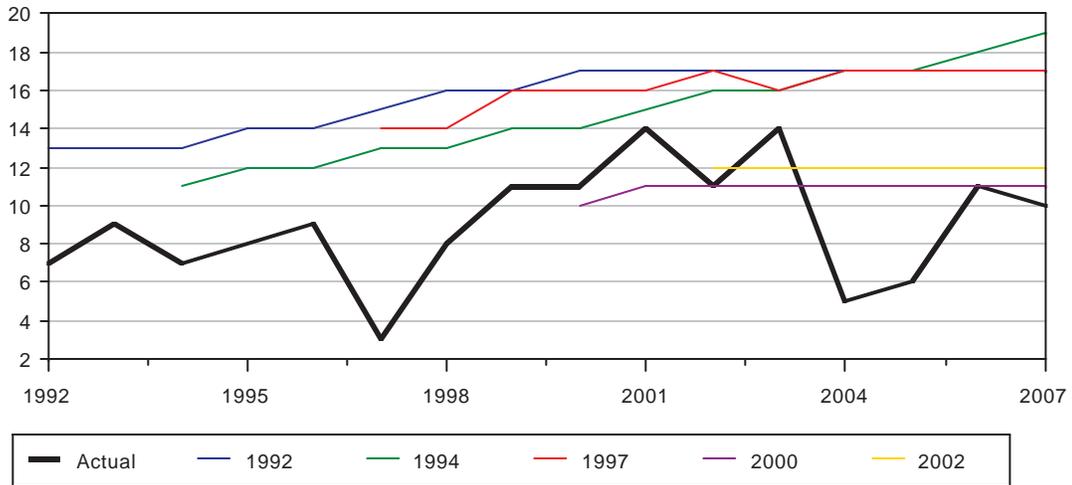


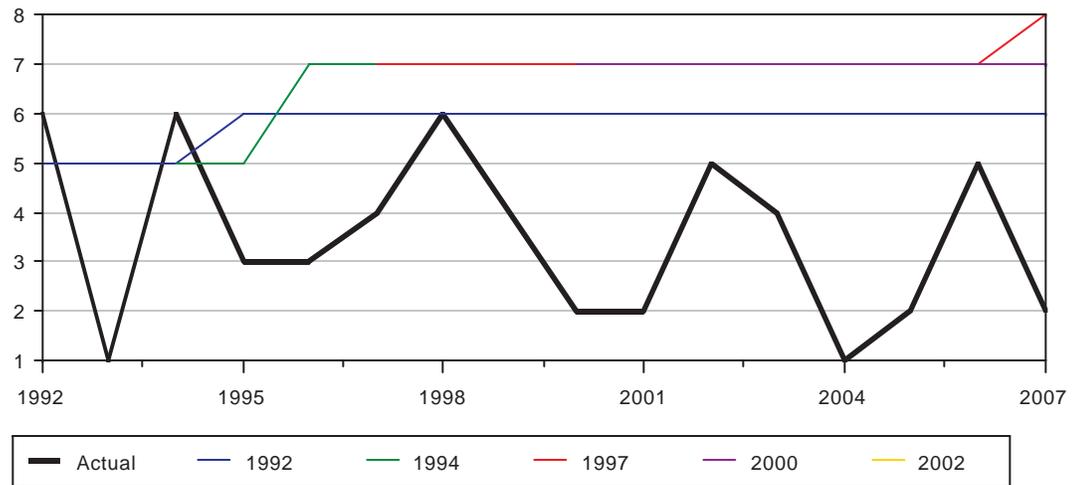
Figure 13.2
Population Projections



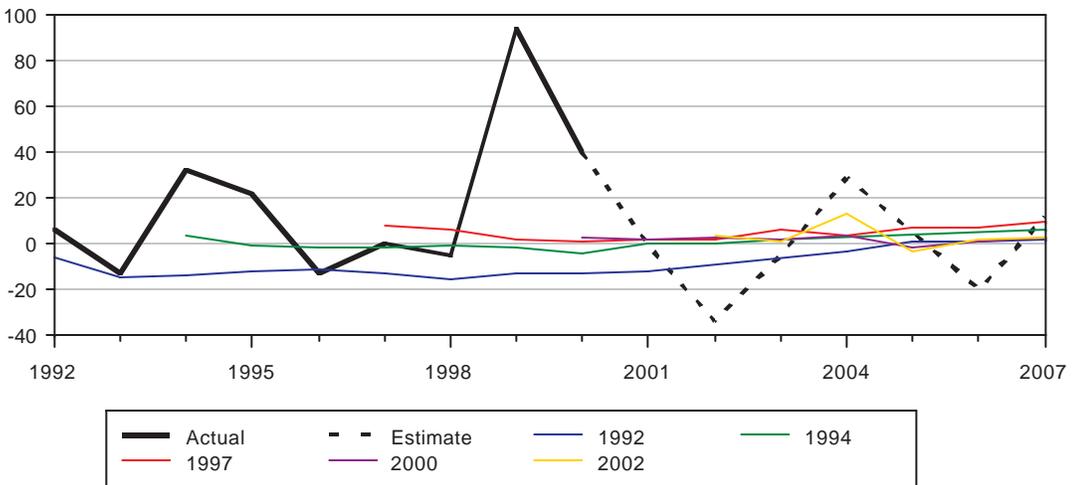
**Figure 13.3
Birth Projections**



**Figure 13.4
Death Projections**



**Figure 13.5
Migration Projections**



Population

Net Migration

Figure 13.6

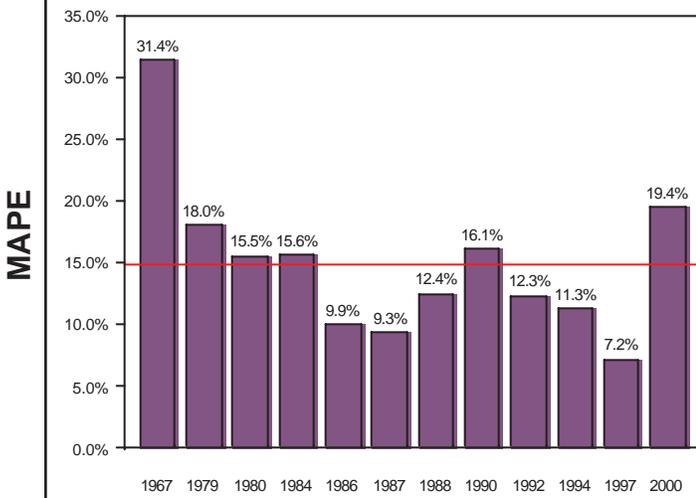


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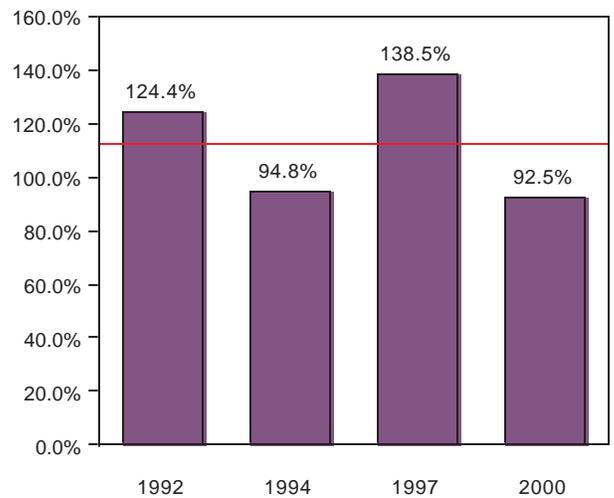


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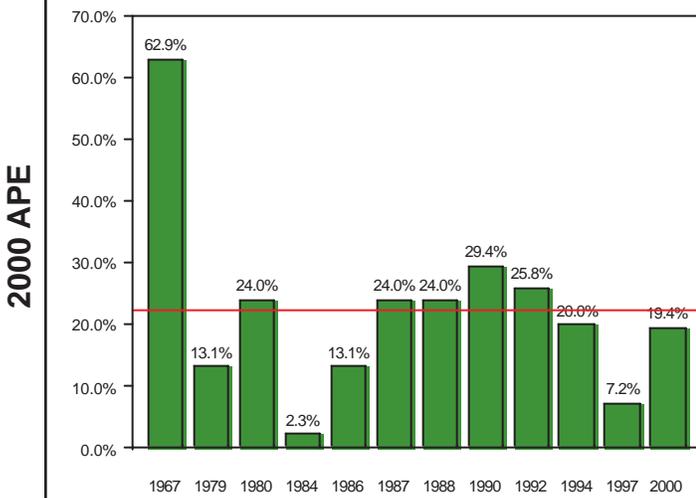


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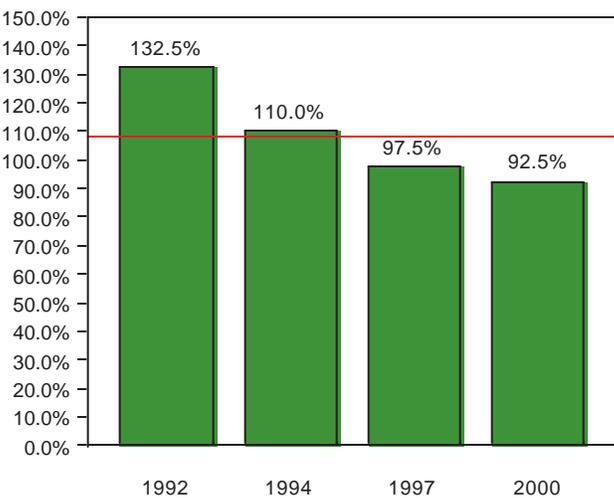


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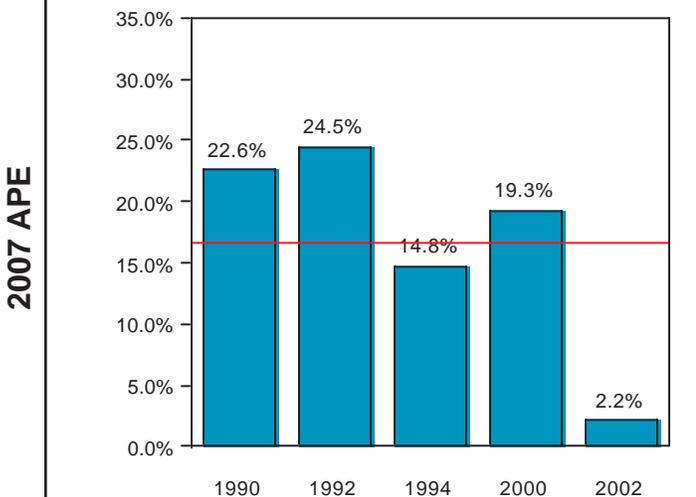
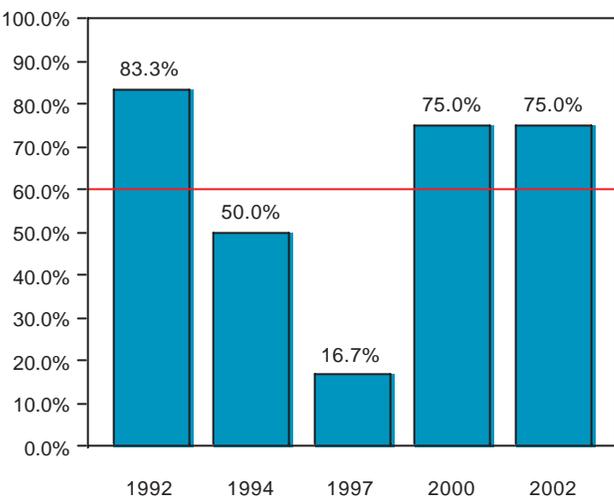
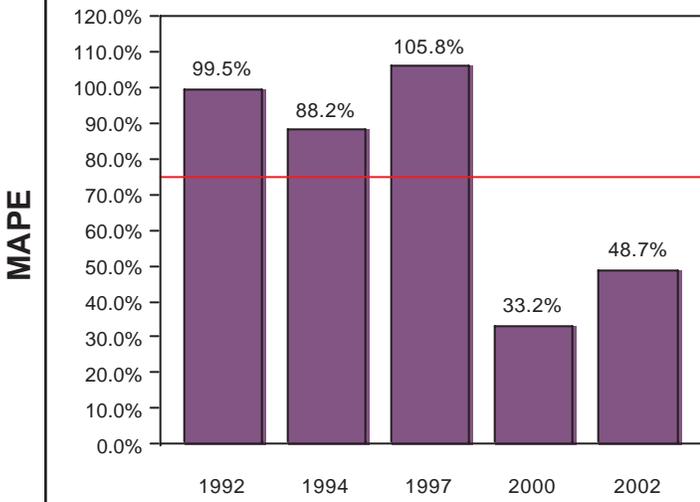


Figure 13.11



Births

Figure 13.12



Deaths

Figure 13.15

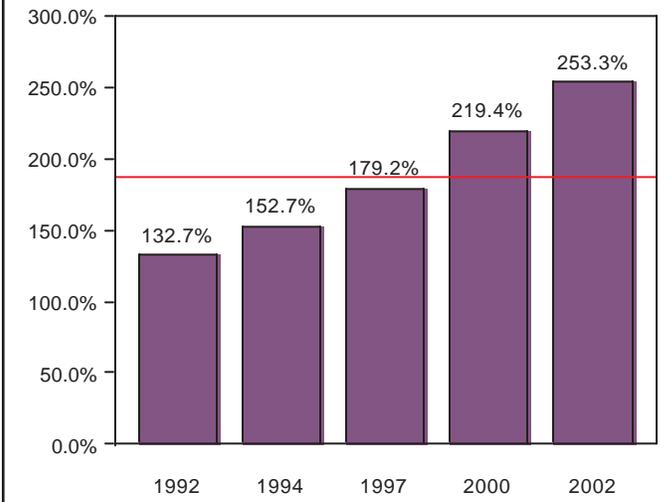


Figure 13.13

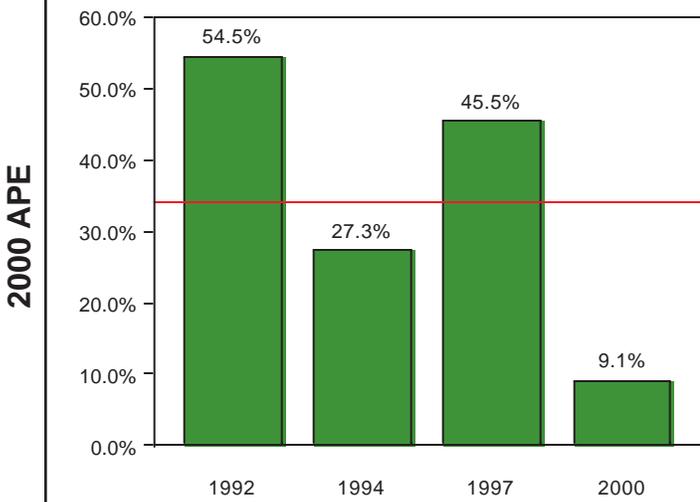


Figure 13.16

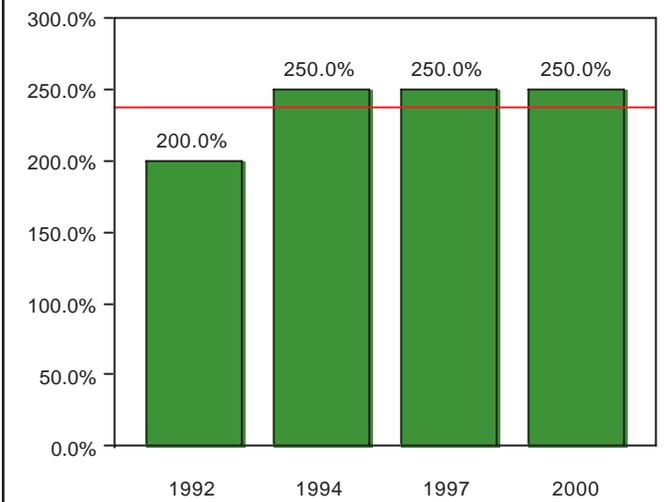


Figure 13.14

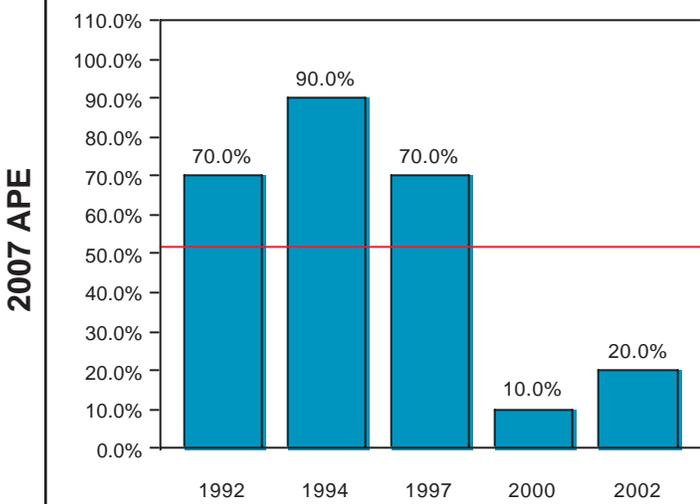
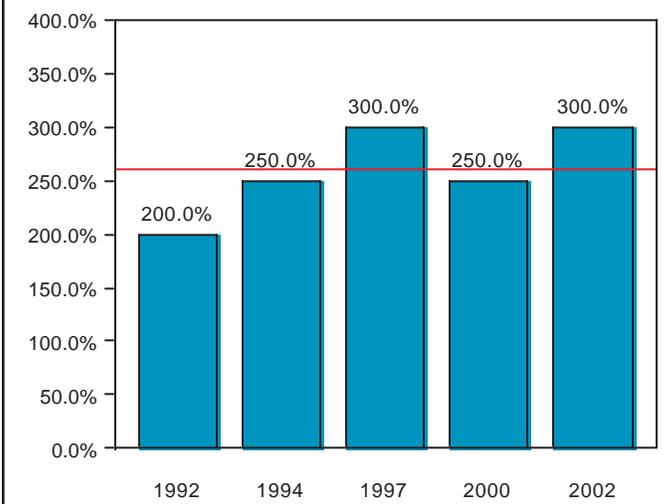


Figure 13.17



Davis County

The 1987 and 1988 baselines were the most accurate projections of the 2000 population with absolute percent errors of 0.4%. The 1990, 1994, 1997, and 2000 baselines were also close, all within a 4.1% error. The 1979 and 1980 baselines were the least accurate projections of the 2000 population with absolute percent errors of 24.3%. The 1967 baseline, the oldest projection of the 2000 population, had an absolute percent error of 5.2%. The average absolute percent error of all baselines for the 2000 population projection was 8.7%.

Overall, the 2000 baseline was the most accurate population projection with a mean absolute percent error of .6%. The 1979 baseline was the least accurate population projection with a mean absolute percent error of 25.3%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 3.3%.

Of the components of population change, projections for births were most accurate with an overall mean absolute percent error for all baselines of 3.9%, compared to 6.5% and 91.6% for deaths and net migration, respectively.

Figure 14.1
Population Components

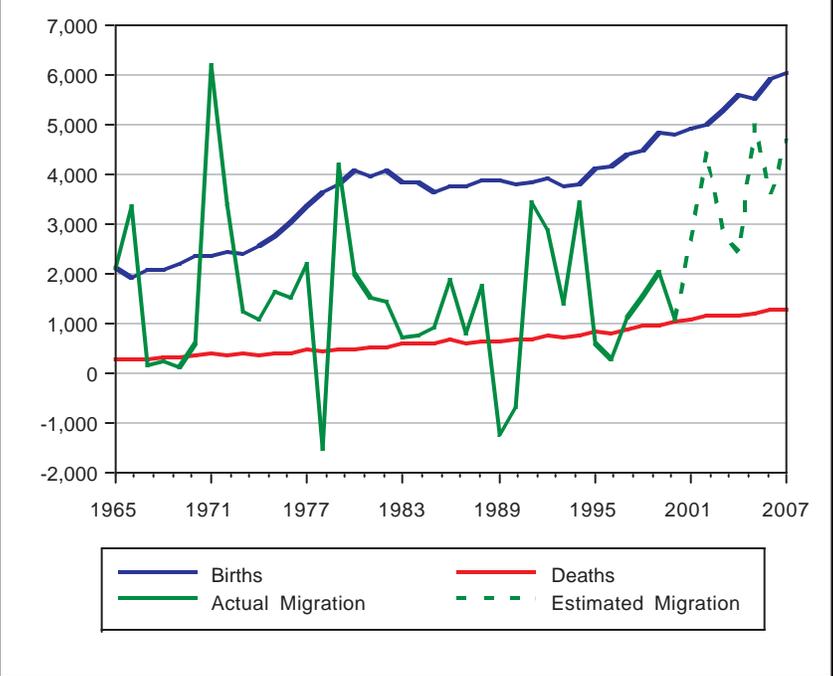
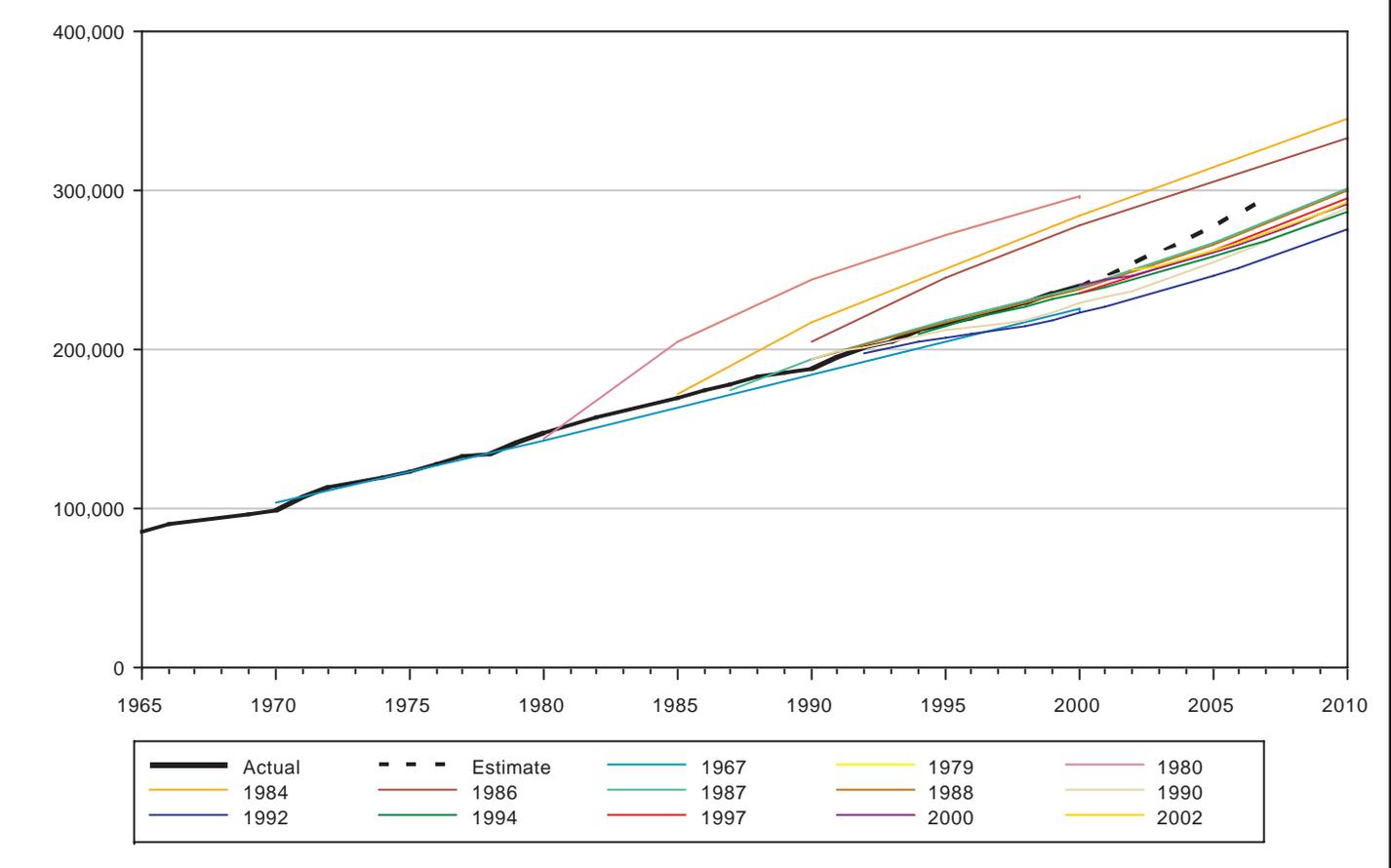
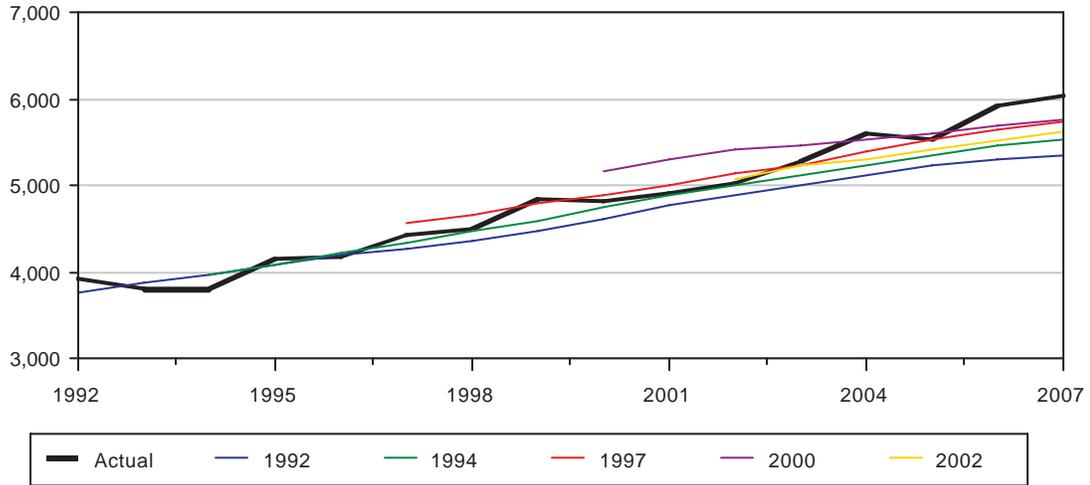


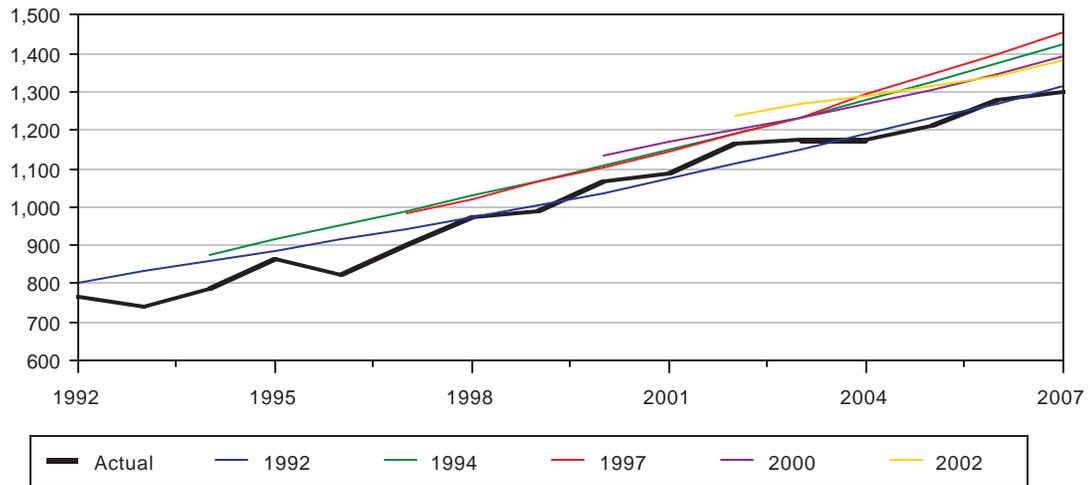
Figure 14.2
Population Projections



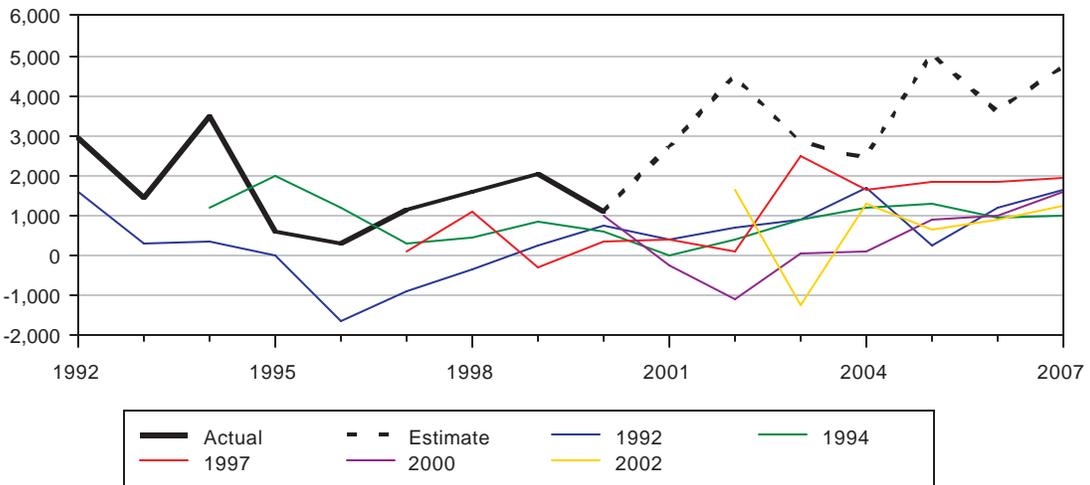
**Figure 14.3
Birth Projections**



**Figure 14.4
Death Projections**



**Figure 14.5
Migration Projections**



Population

Net Migration

Figure 14.6

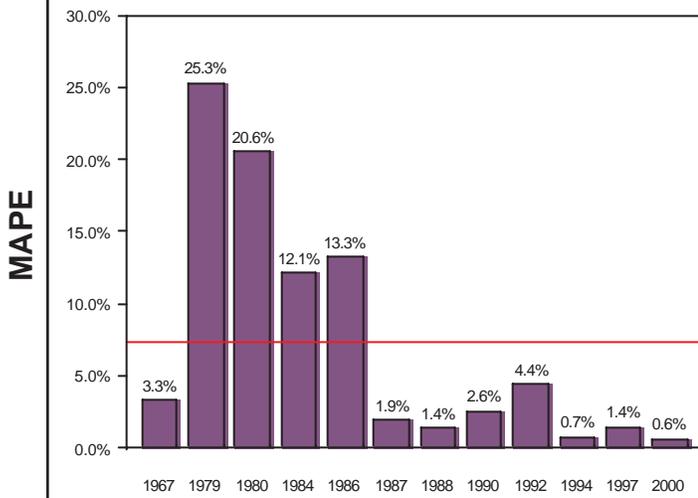


Figure 14.9

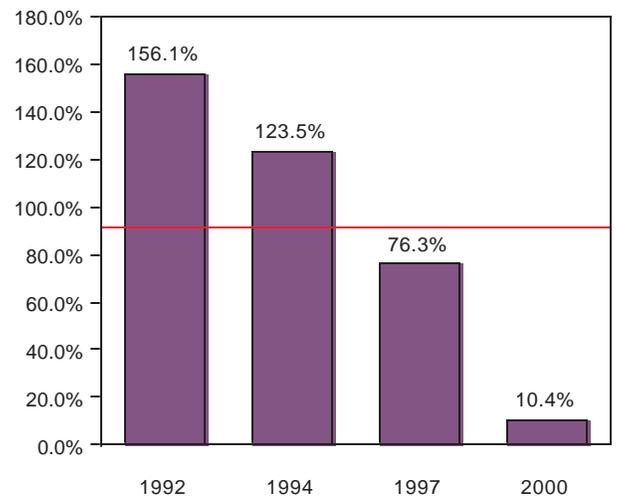


Figure 14.7

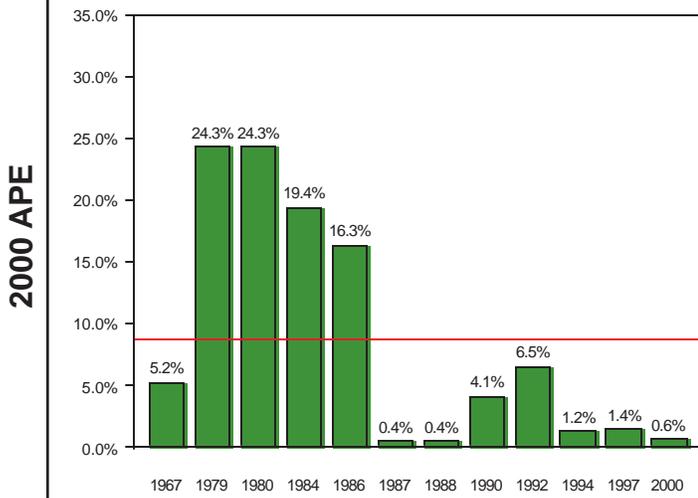


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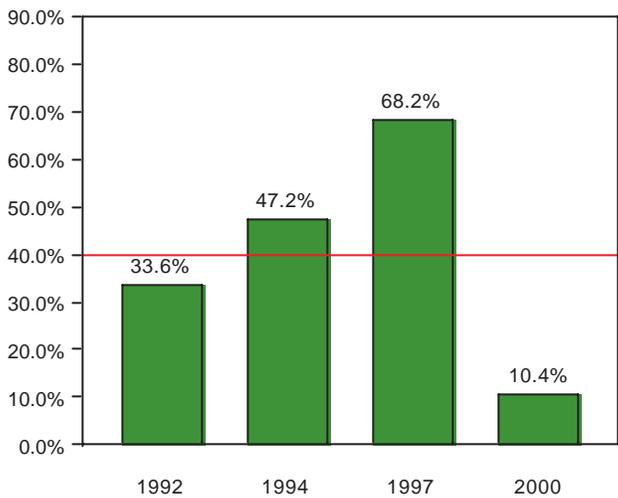


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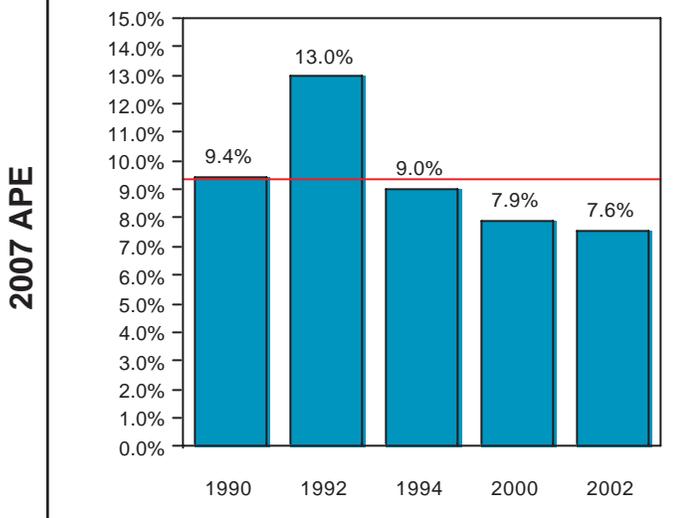
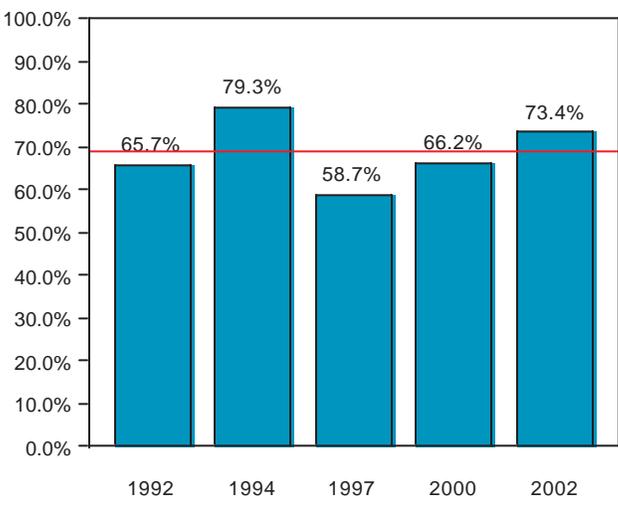


Figure 14.11



Births

Deaths

Figure 14.12

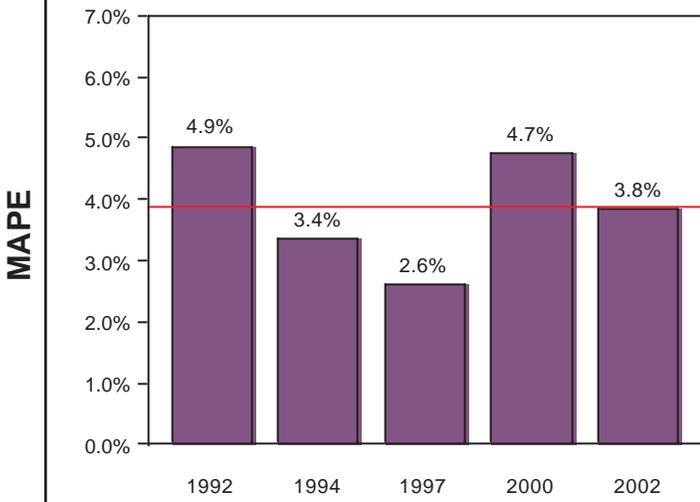


Figure 14.15

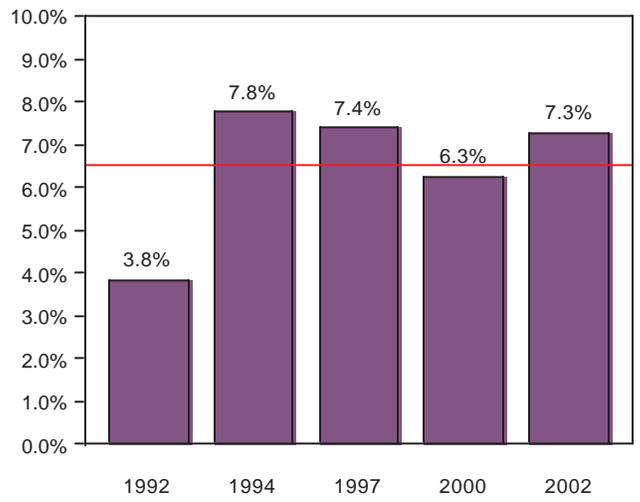


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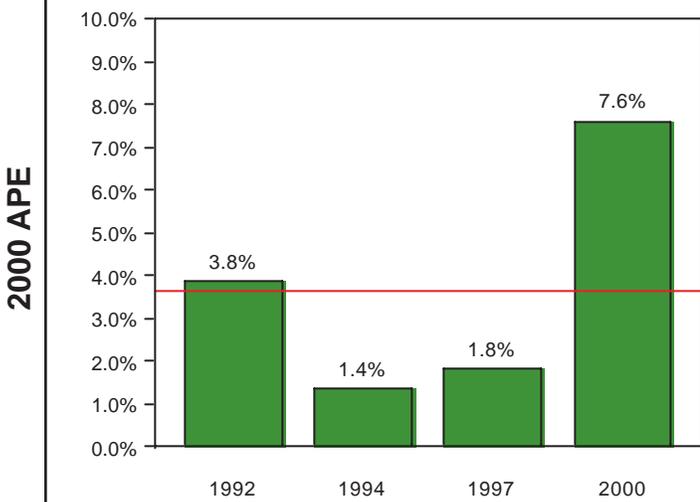


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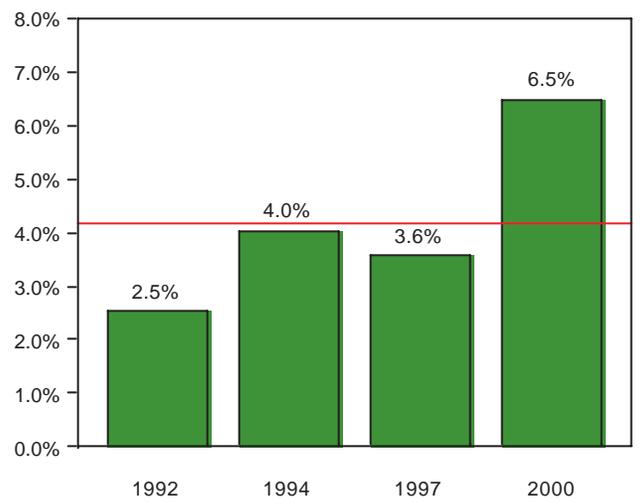


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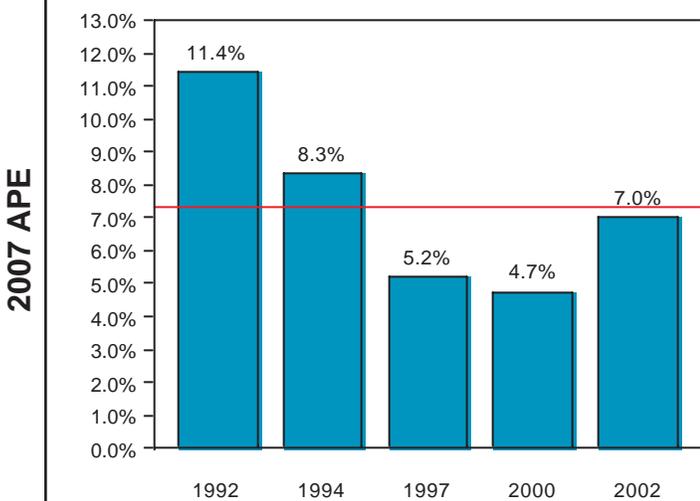
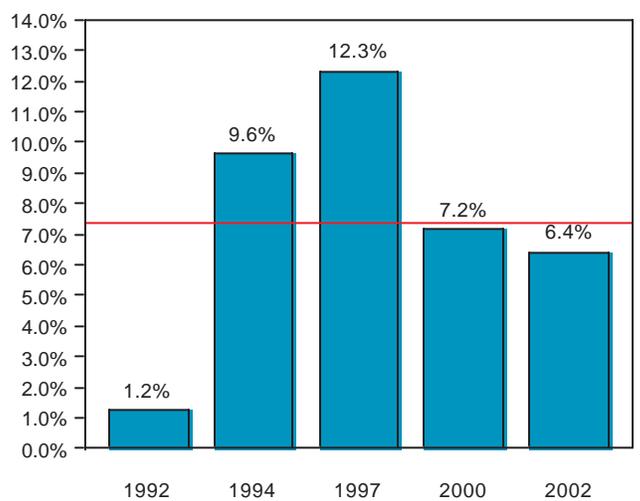


Figure 14.17



Duchesne County

The 1997 baseline was the most accurate projection of the 2000 population with an absolute percent error of 0.1%. The 1979, 1990, 1994, and 2000 baselines were also close, all within a 5.0% error. The 1967 baseline, the oldest projection of the 2000 population, was the least accurate projection with an absolute percent error of 52.0%. The average absolute percent error of all baselines for the 2000 population projection was 12.6%.

Overall, the 1997 baseline was the most accurate population projection with a mean absolute percent error of 0.1%. The 1967 baseline, the oldest projection, was the least accurate population projection with a mean absolute percent error of 38.1%.

Of the components of population change, projections for births were most accurate with an overall mean absolute percent error for all baselines of 11.3%, compared to 17.0% and 86.7% for deaths and net migration, respectively.

Figure 15.1
Population Components

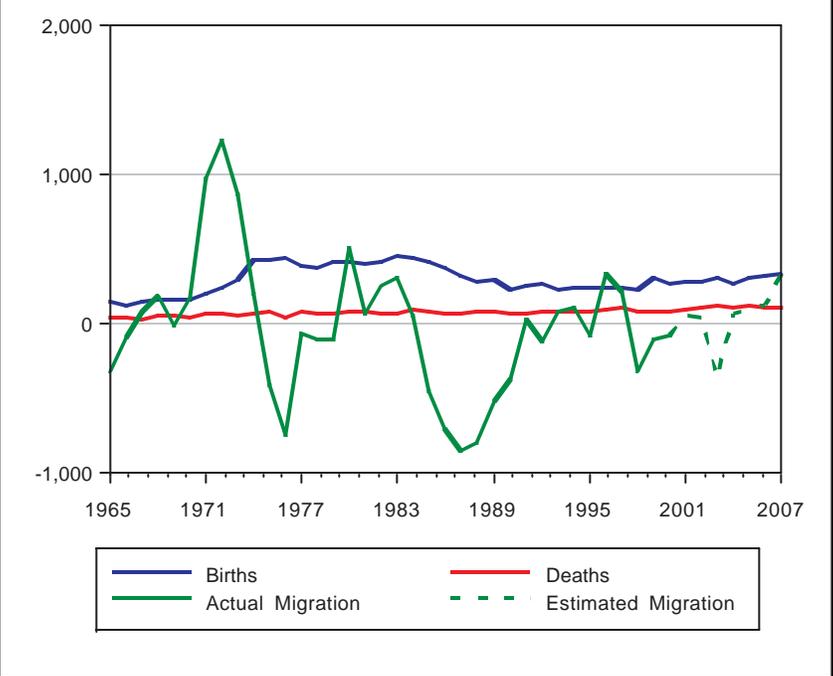
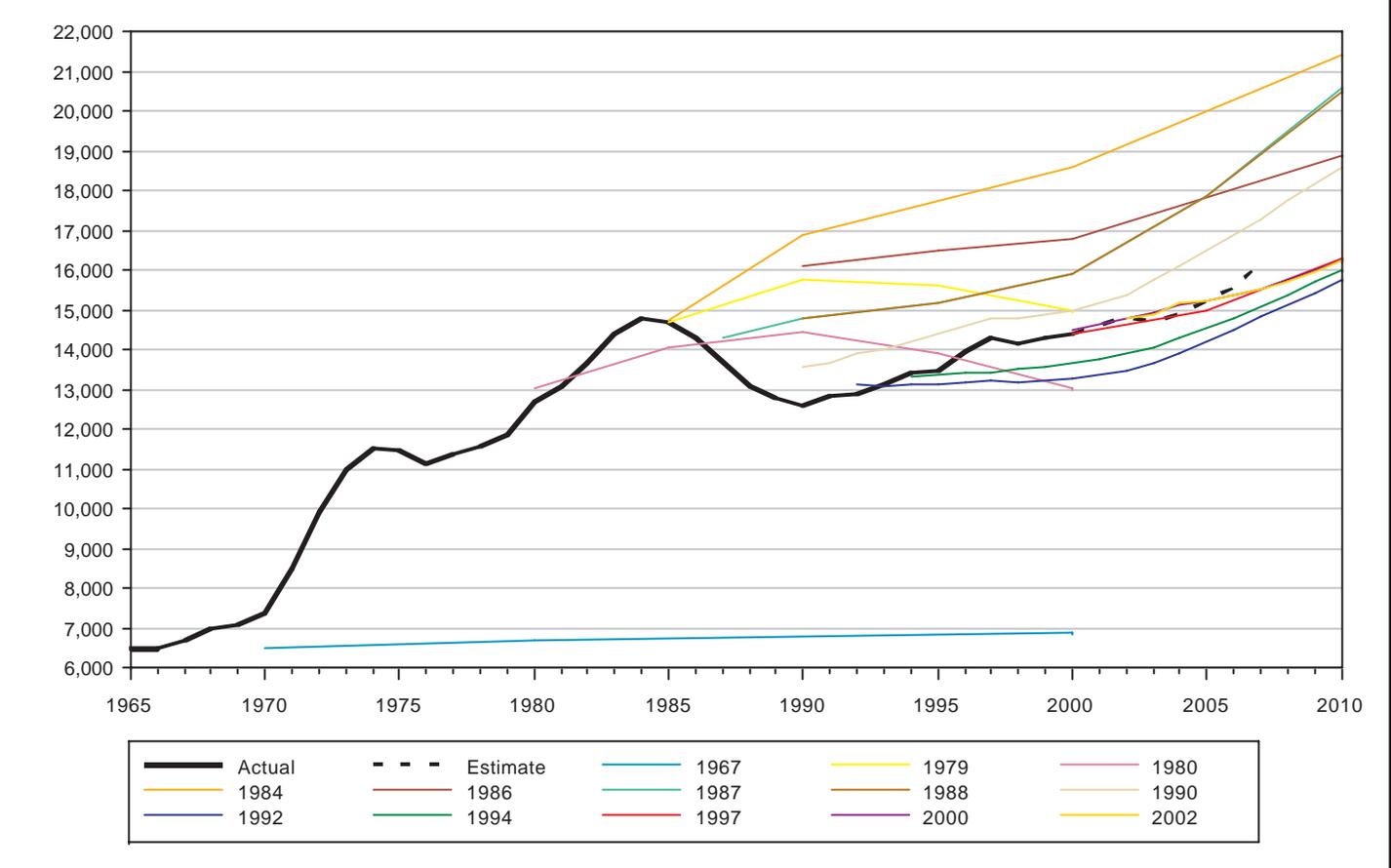
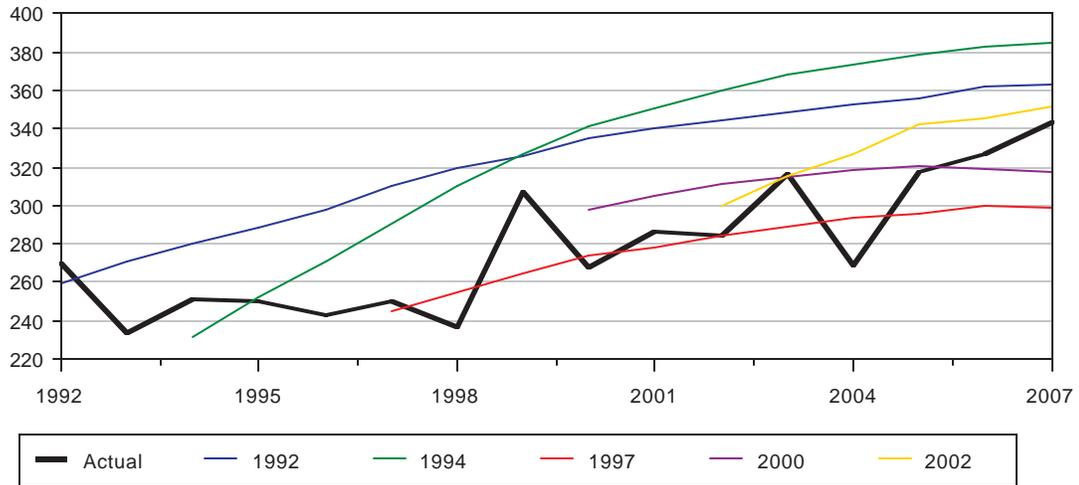


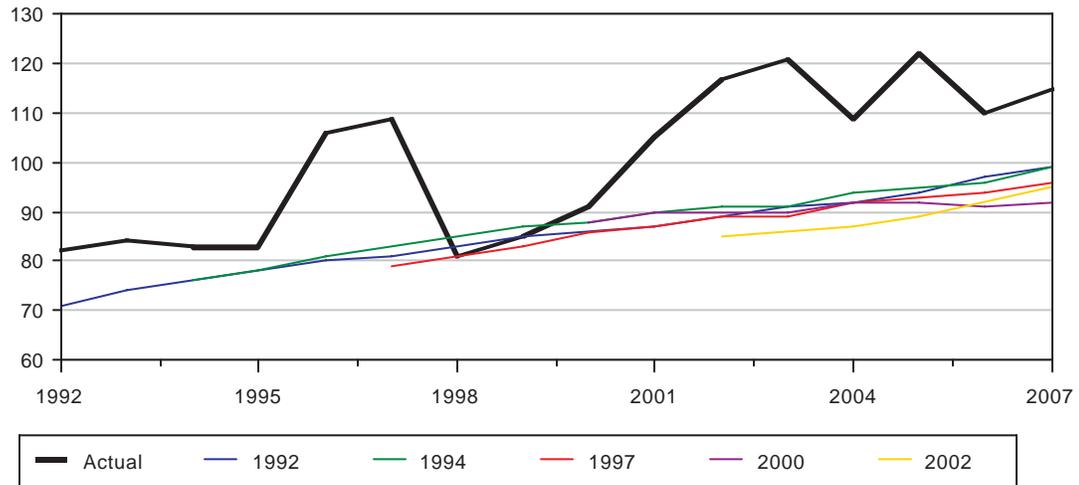
Figure 15.2
Population Projections



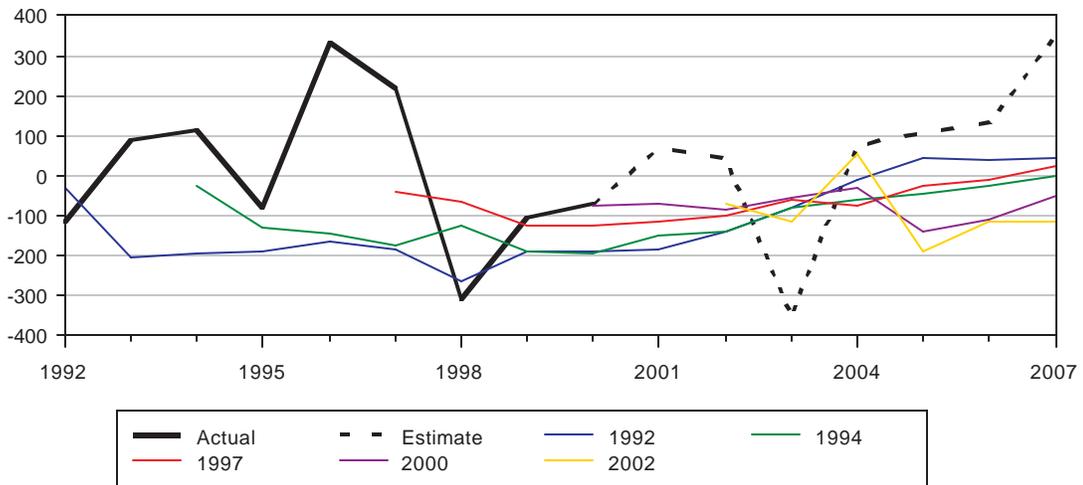
**Figure 15.3
Birth Projections**



**Figure 15.4
Death Projections**



**Figure 15.5
Migration Projections**



Population

Net Migration

Figure 15.6

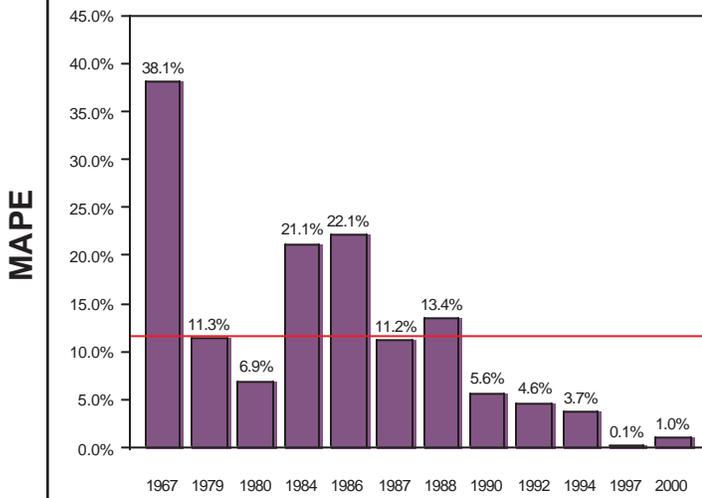


Figure 15.9

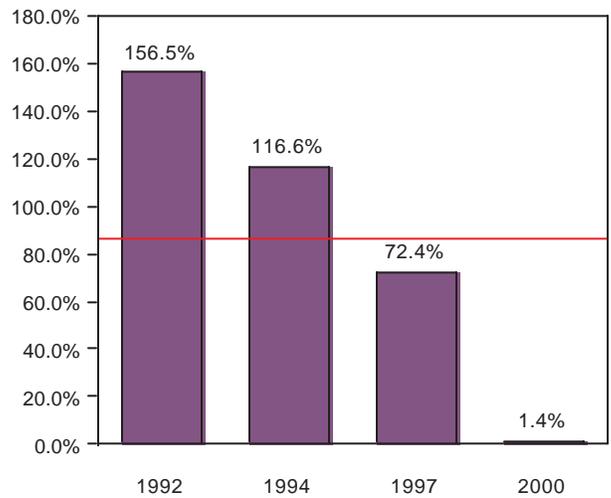


Figure 15.7

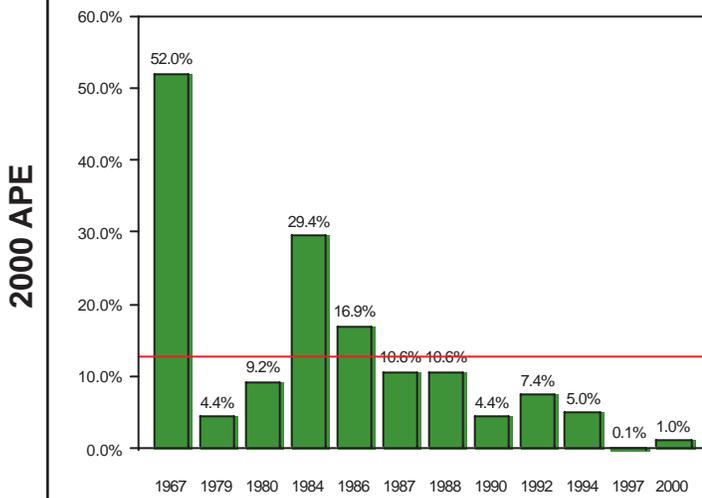


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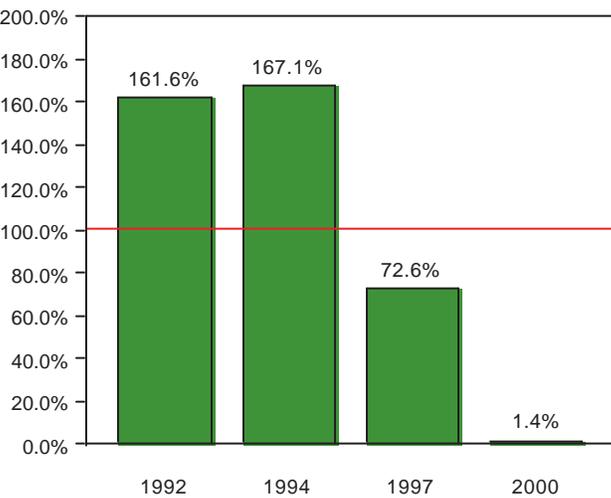


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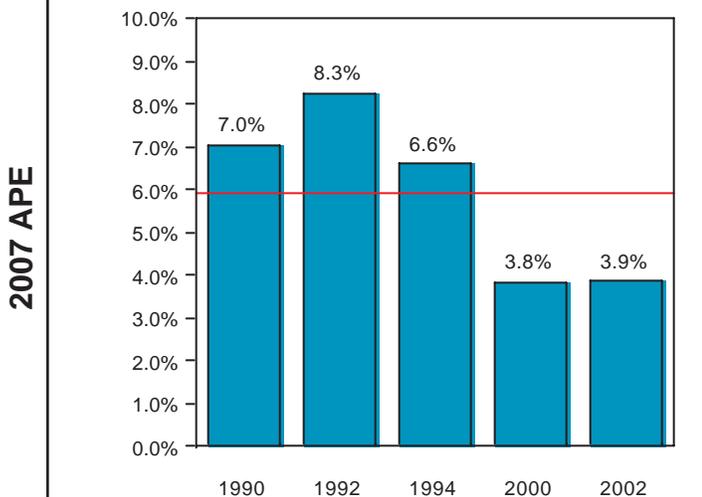
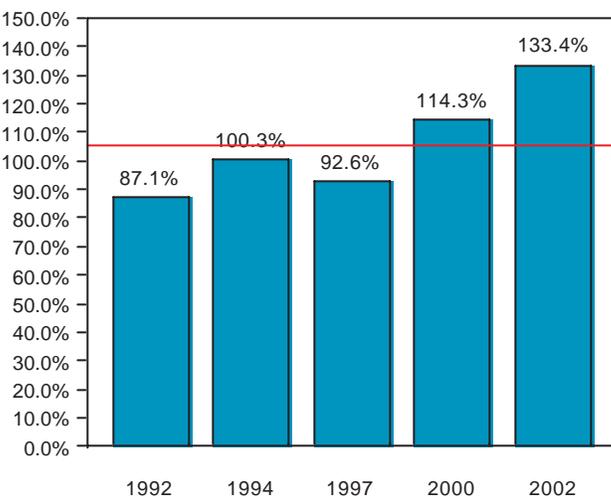


Figure 15.11



Births

Deaths

Figure 15.12

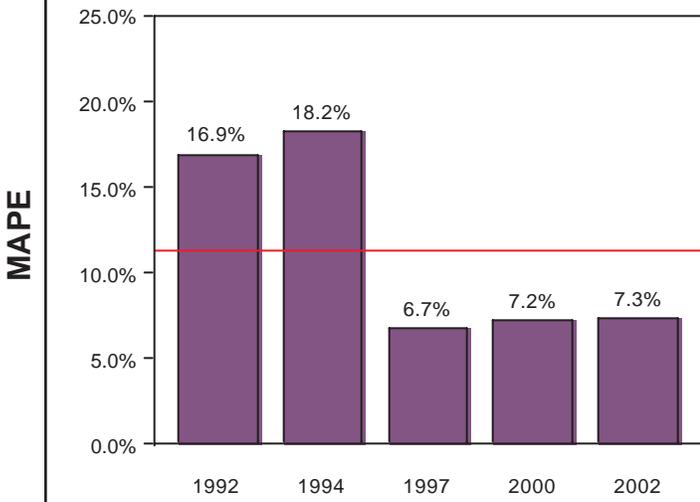


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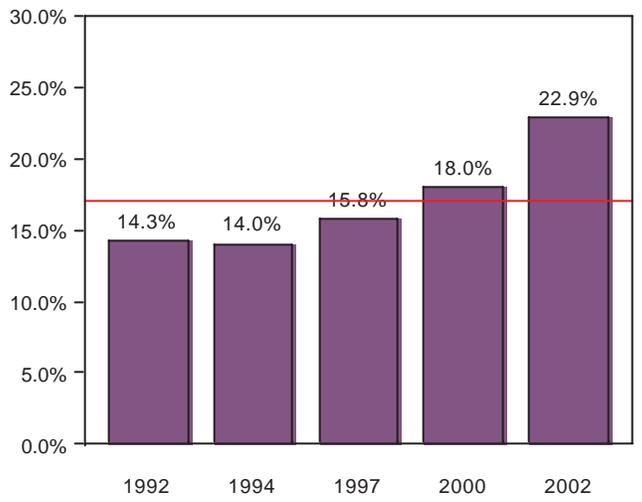


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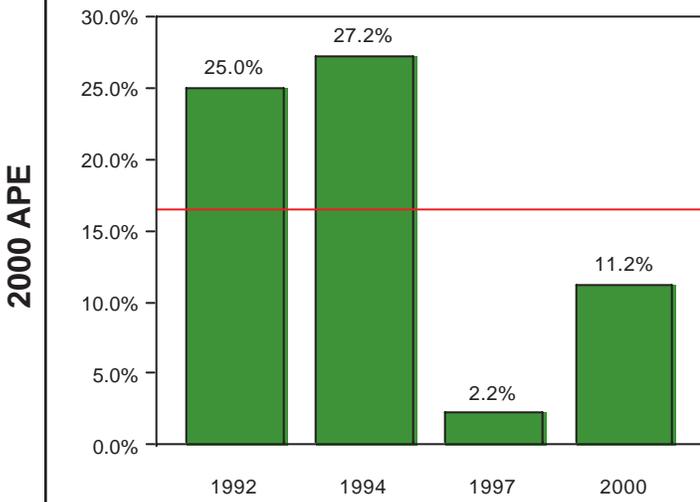


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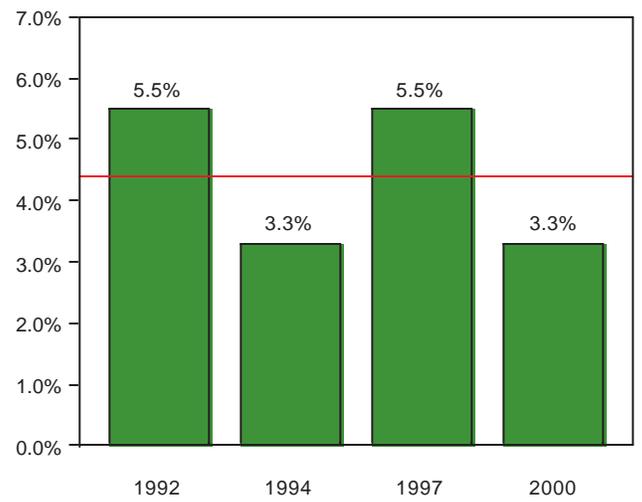


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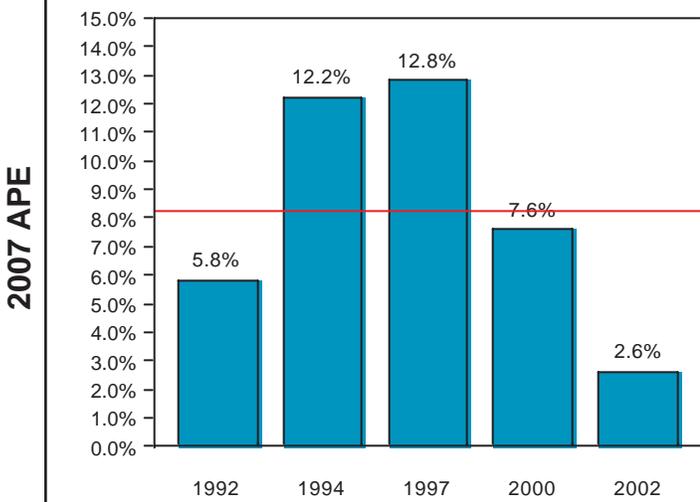
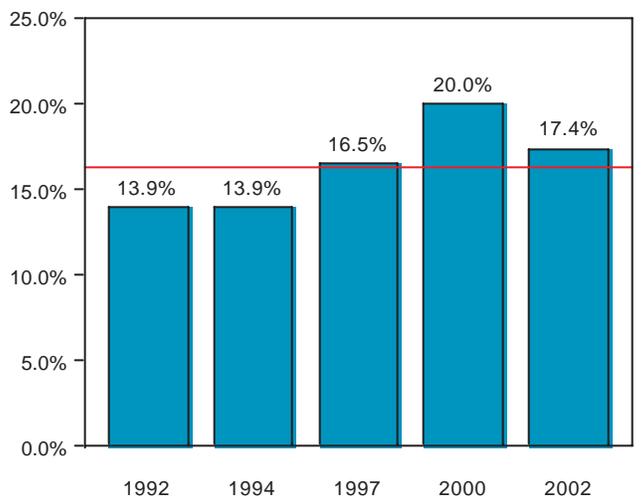


Figure 15.17



Emery County

The 1992 baseline was the most accurate projection of the 2000 population with an absolute percent error of 2.9%. The 1990, 1994, 1997, and 2000 baselines were also close, all within a 4.6% error. The 1979 and 1980 baselines were the least accurate projections of the 2000 population with absolute percent errors of 92.4%. The 1967 baseline, the oldest projection of the 2000 population, had an absolute percent error of 33.7%. The average absolute percent error of all baselines for the 2000 population projection was 26.7%.

Overall, the 1997 baseline was the most accurate population projection with a mean absolute percent error of 3.2%. The 1979 baseline was the least accurate population projection with a mean absolute percent error of 75.1%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 27.6%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 7.8%, compared to 24.5% and 77.9% for births and net migration, respectively.

Figure 16.1
Population Components

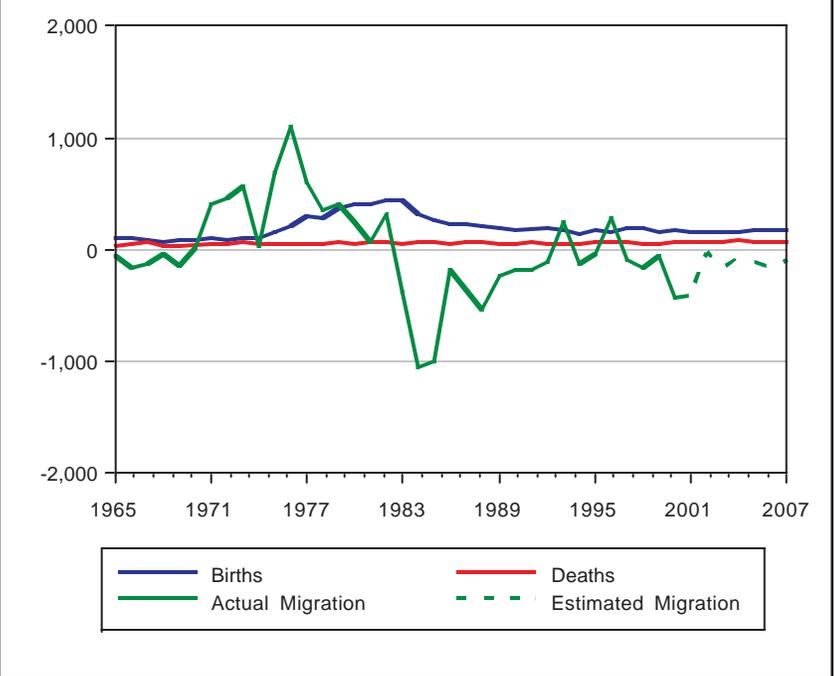


Figure 16.2
Population Projections

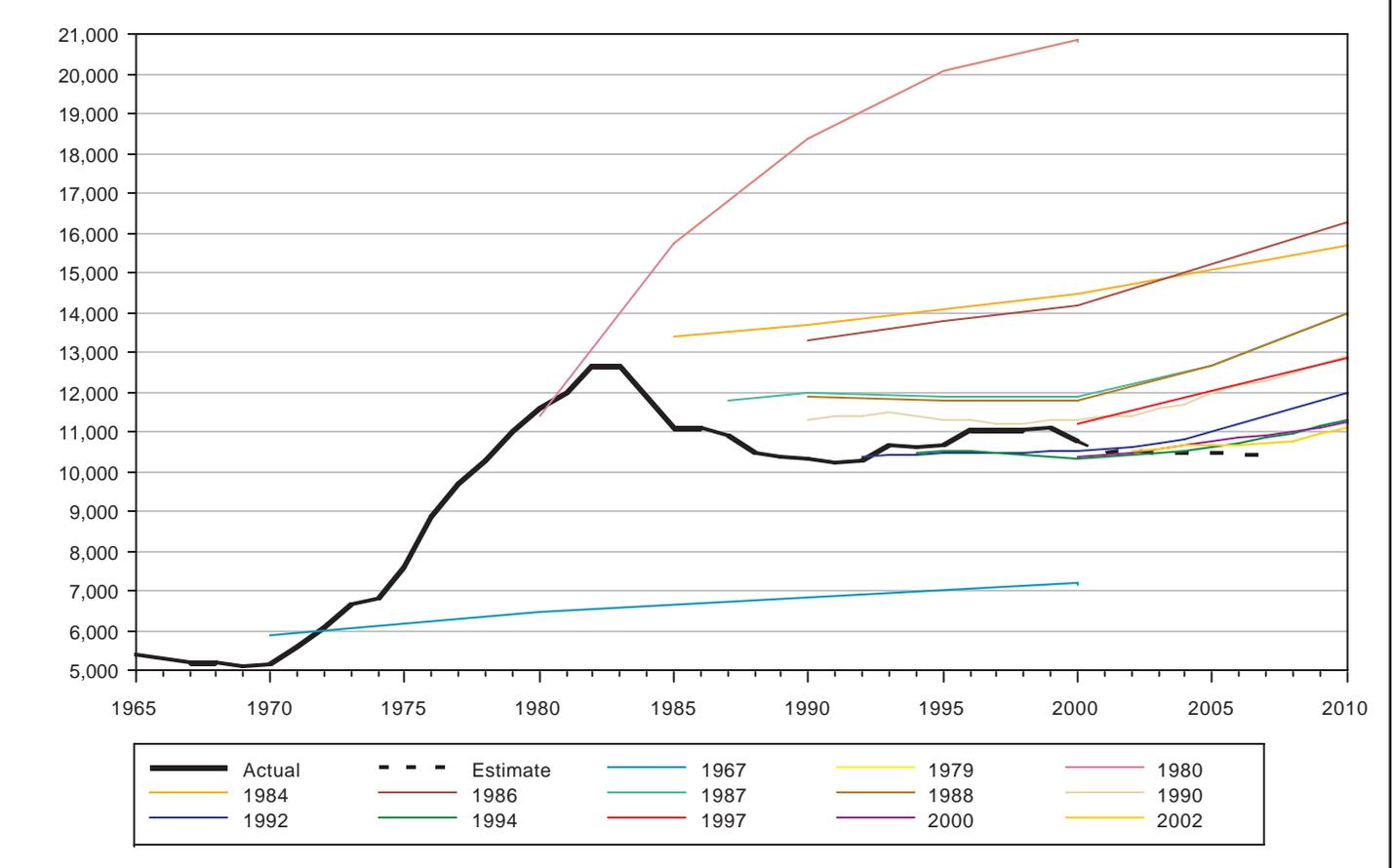


Figure 16.3
Birth Projections

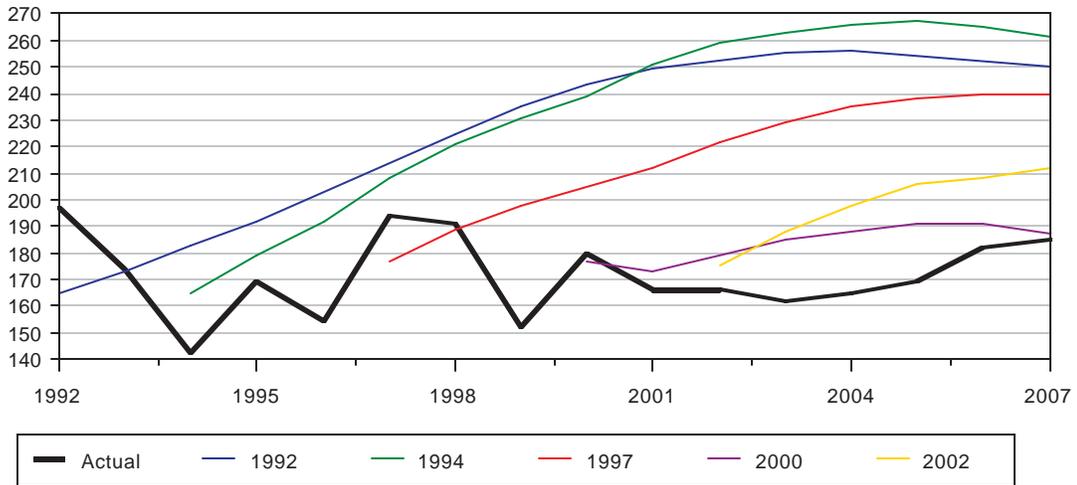


Figure 16.4
Death Projections

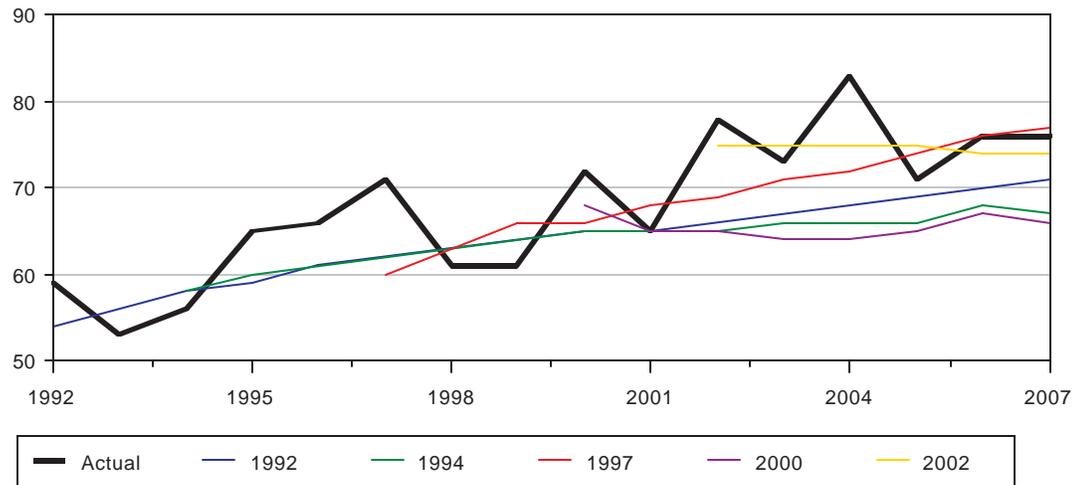
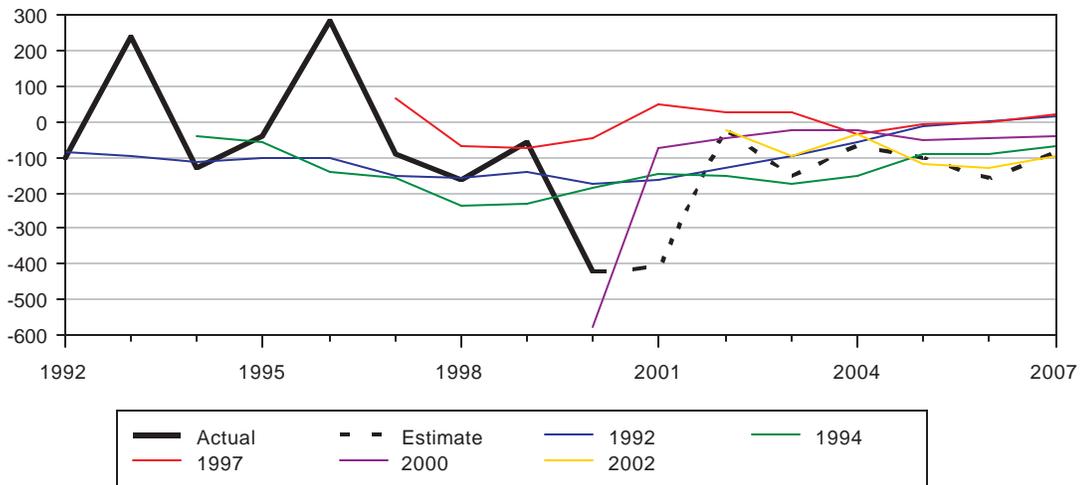


Figure 16.5
Migration Projections



Population

Net Migration

Figure 16.6

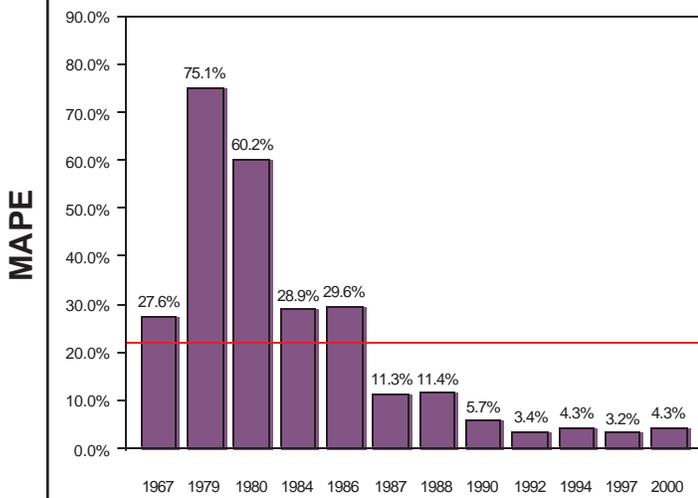


Figure 16.9

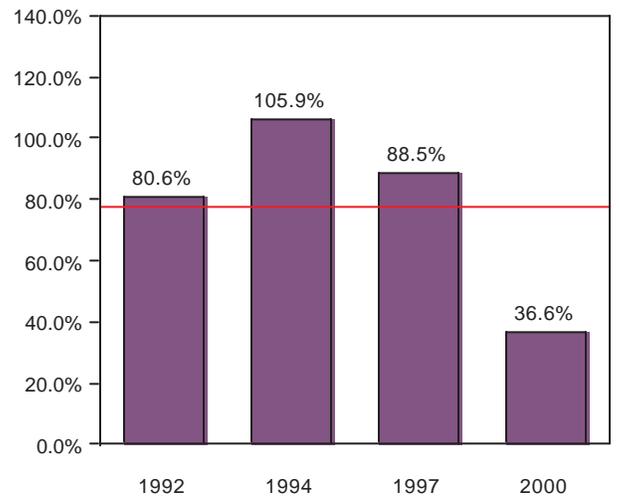


Figure 16.7

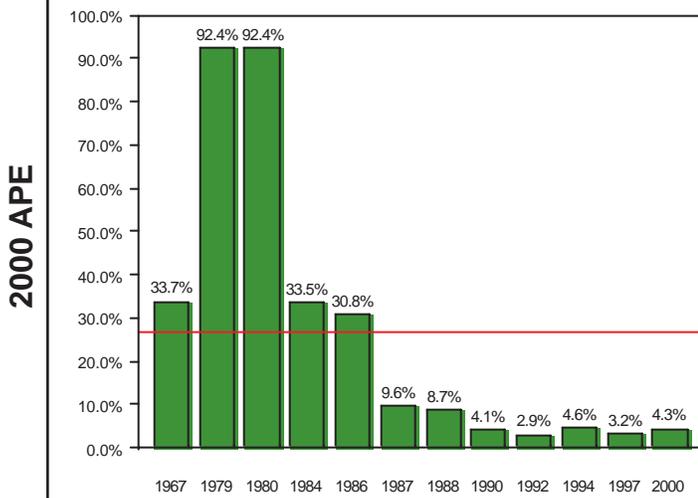


Figure 16.10

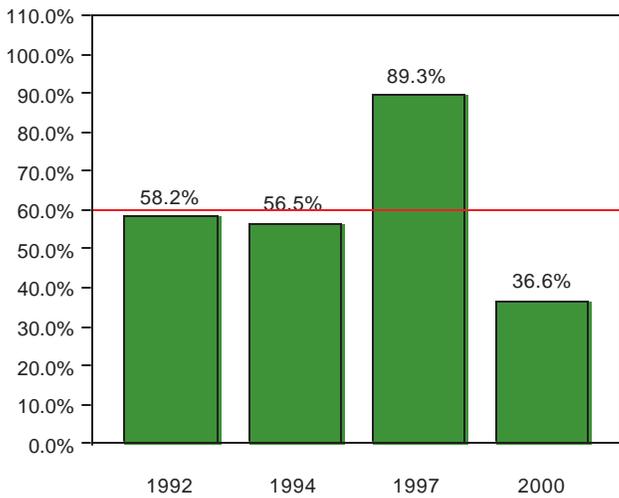


Figure 16.8

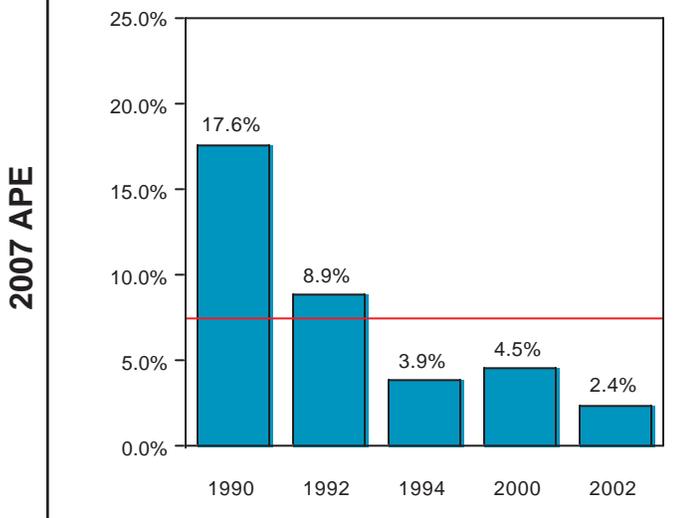
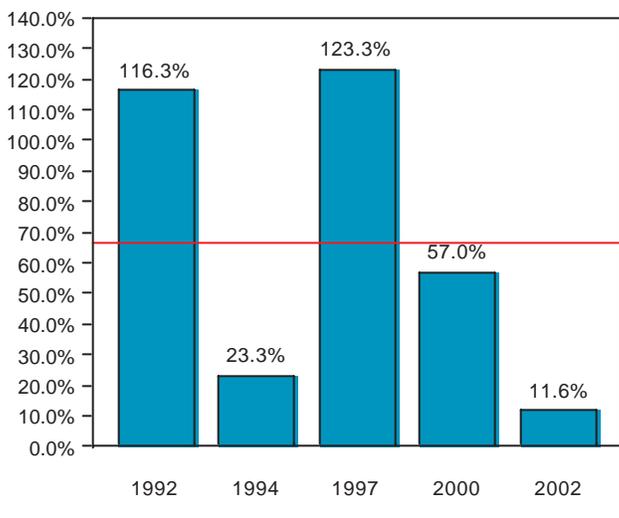
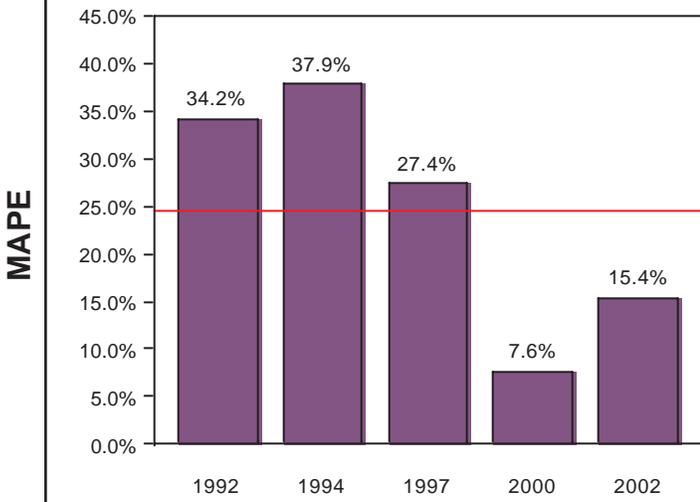


Figure 16.11



Births

Figure 16.12



Deaths

Figure 16.15

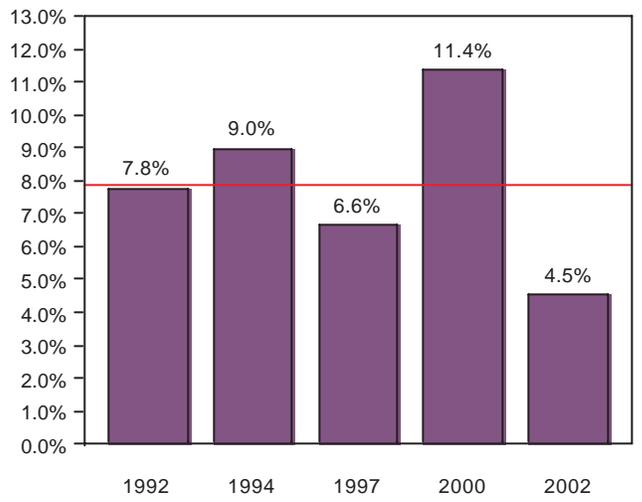


Figure 16.13

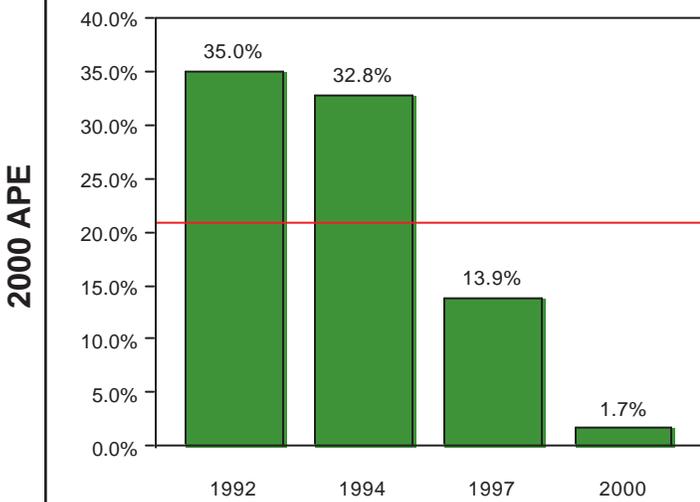


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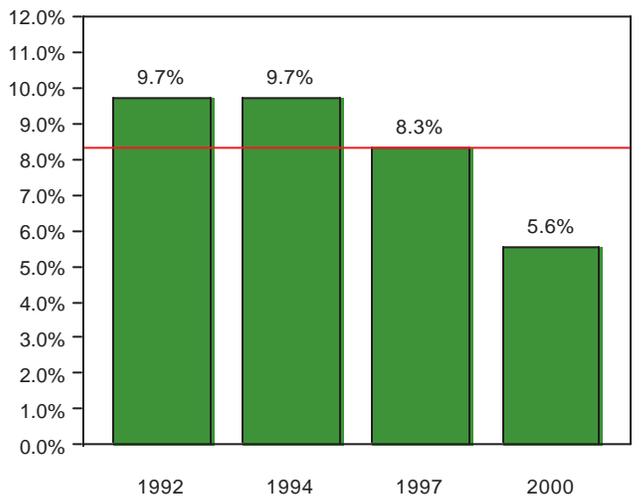


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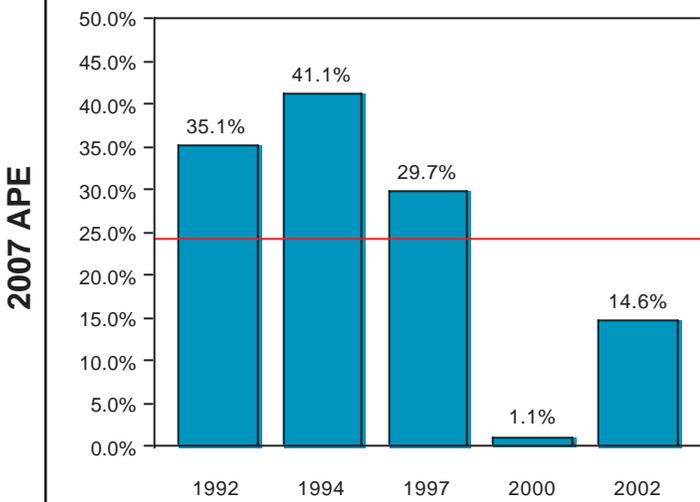
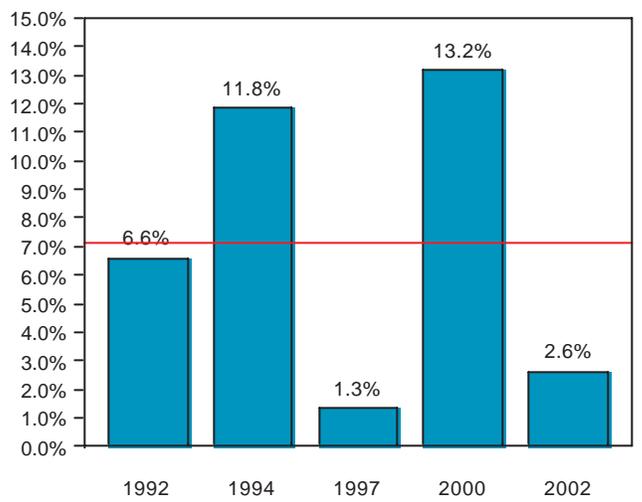


Figure 16.17



Garfield County

The 1997 baseline was the most accurate projection of the 2000 population with an absolute percent error of 0.3%. The 1990, 1994, and 2000 baselines were also close, all within a 5.0% error. The 1967 baseline, the oldest projection of the 2000 population, was the least accurate projection with an absolute percent error of 24.0%. The average absolute percent error of all baselines for the 2000 population projection was 9.9%.

Overall, the 1997 baseline was the most accurate population projection with a mean absolute percent error of 0.3%. The 1979 baseline was the least accurate population projection with a mean absolute percent error of 21.2%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 9.0%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 21.7%, compared to 27.7% and 151.3% for births and net migration, respectively.

Figure 17.1
Population Components

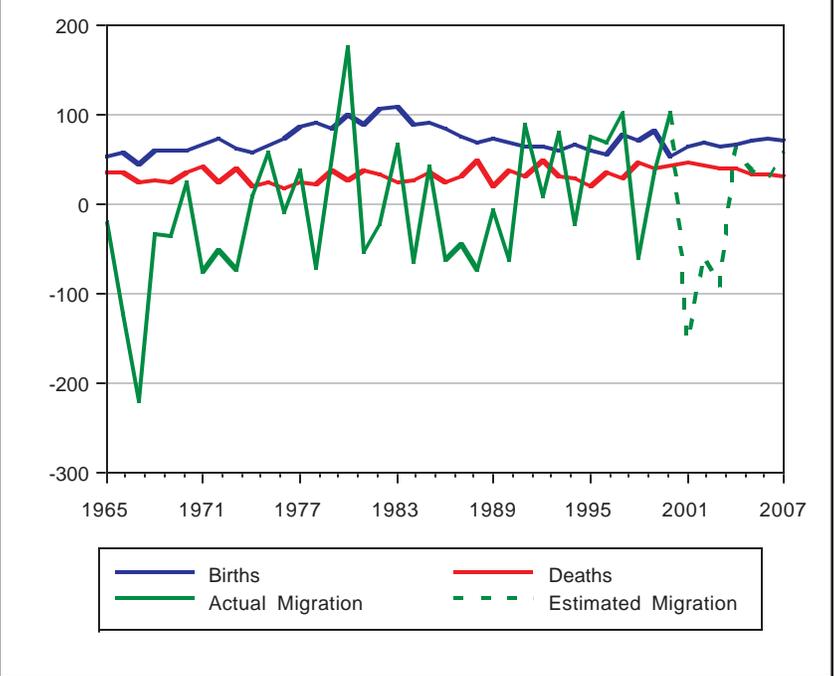


Figure 17.2
Population Projections

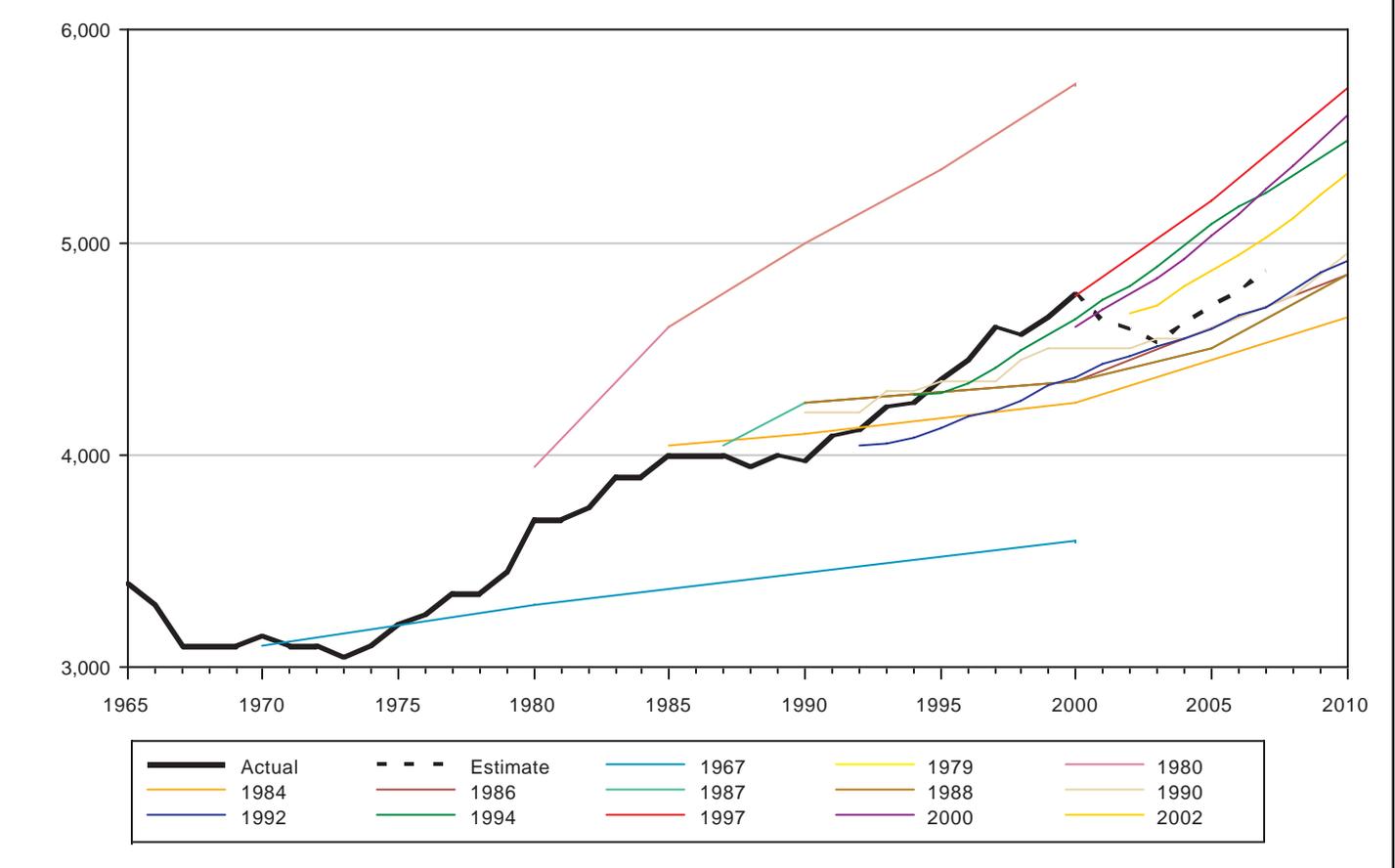


Figure 17.3
Birth Projections

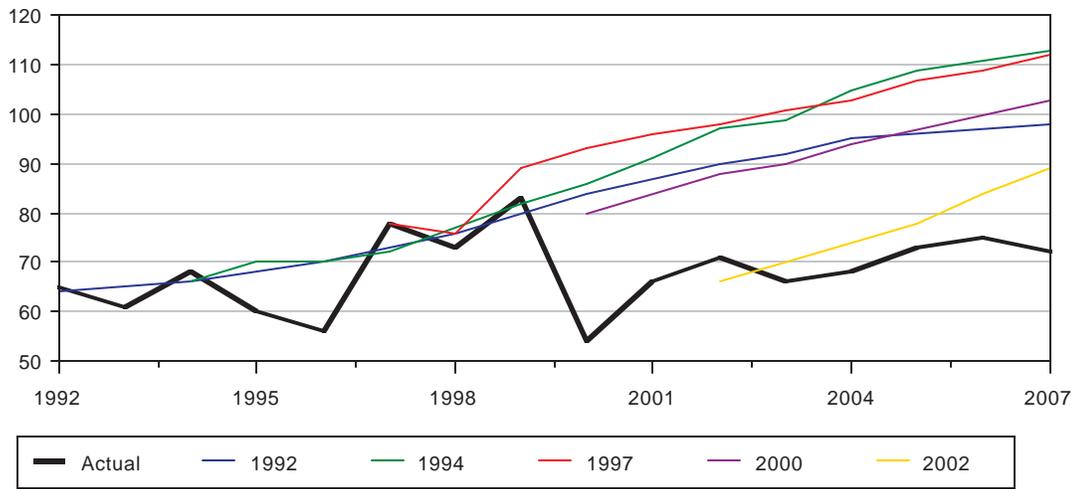


Figure 17.4
Death Projections

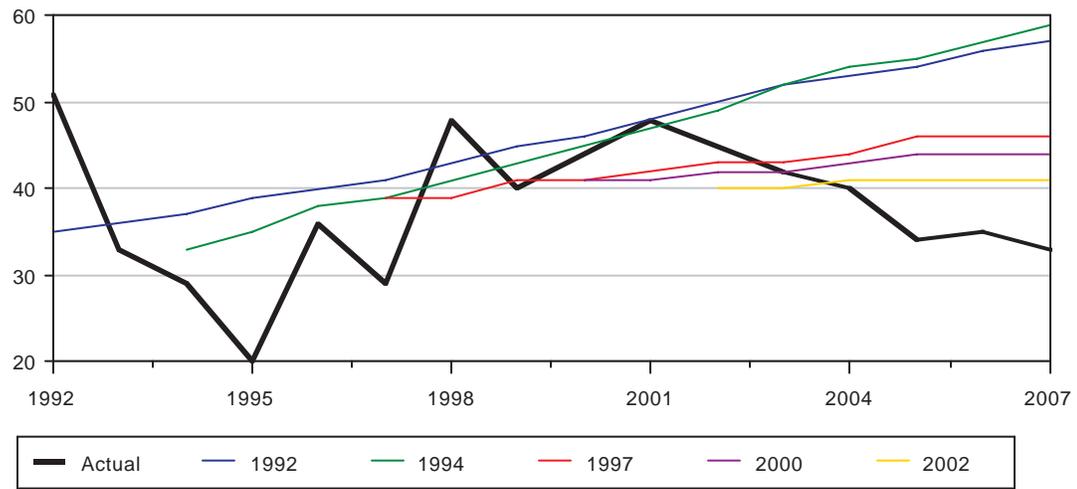
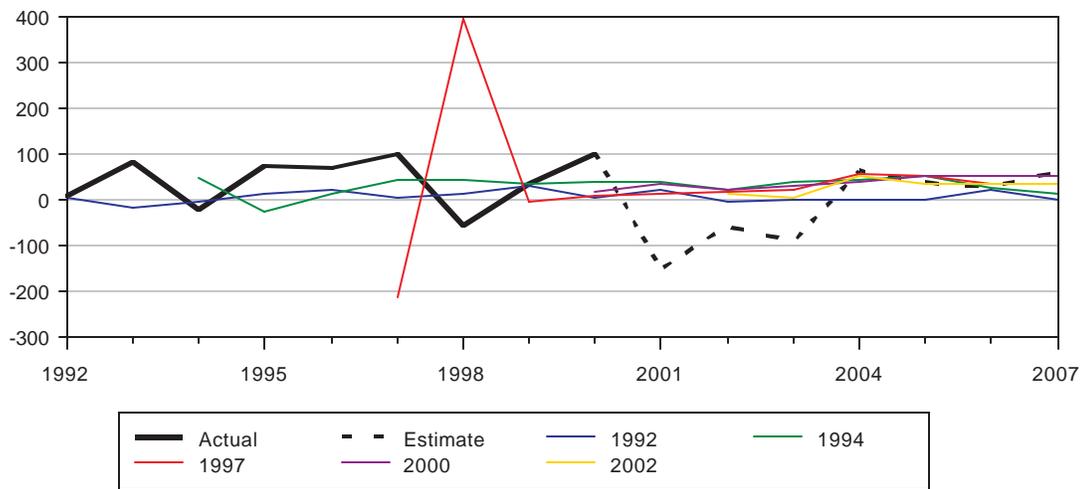


Figure 17.5
Migration Projections



Population

Net Migration

Figure 17.6

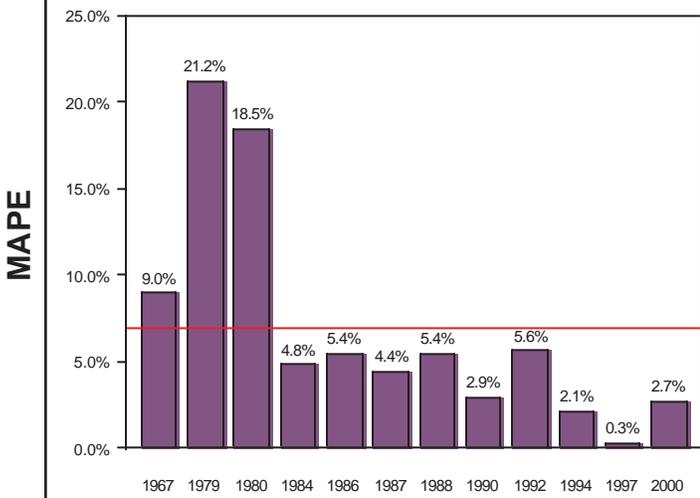


Figure 17.9

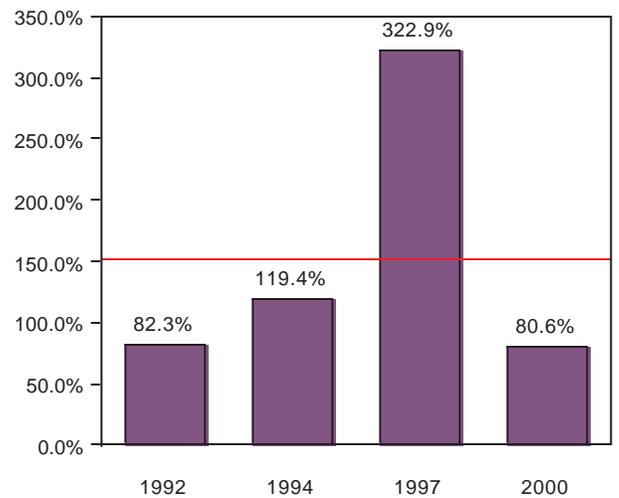


Figure 17.7

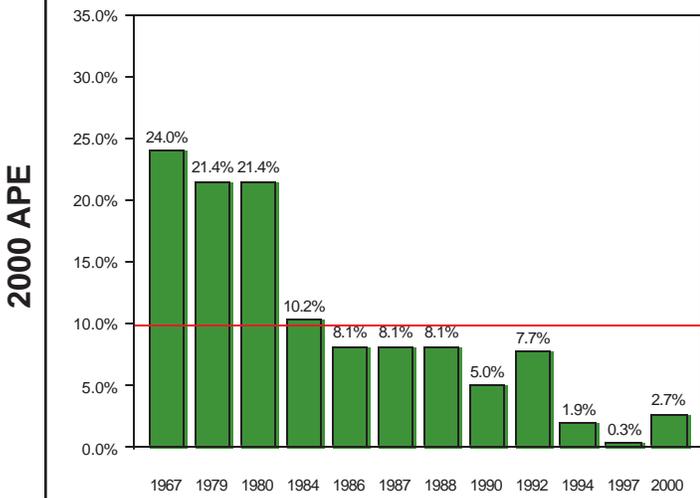


Figure 17.10

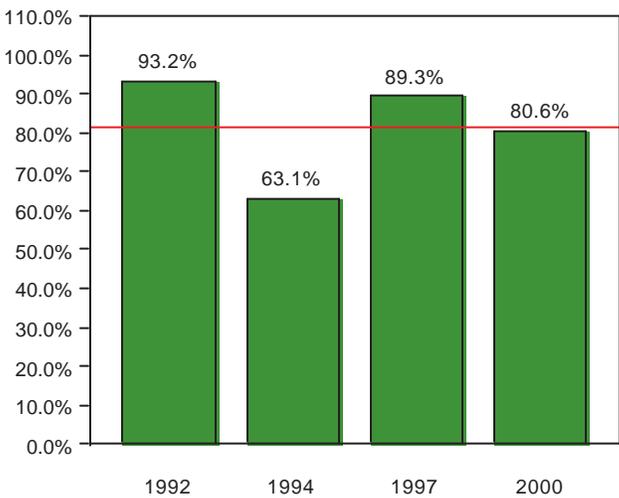


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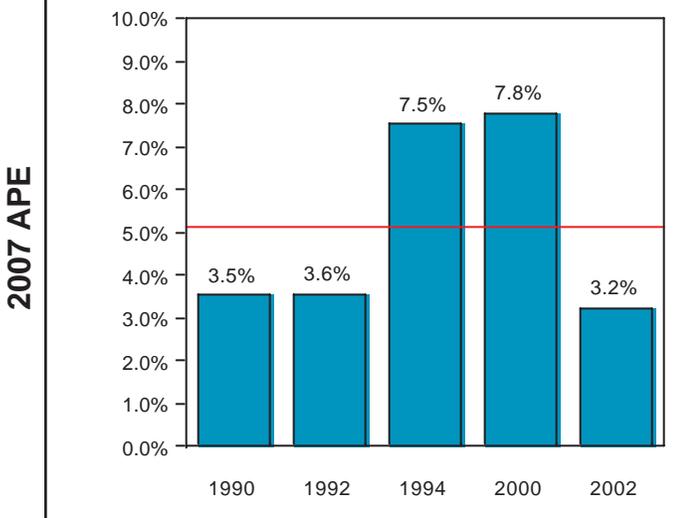
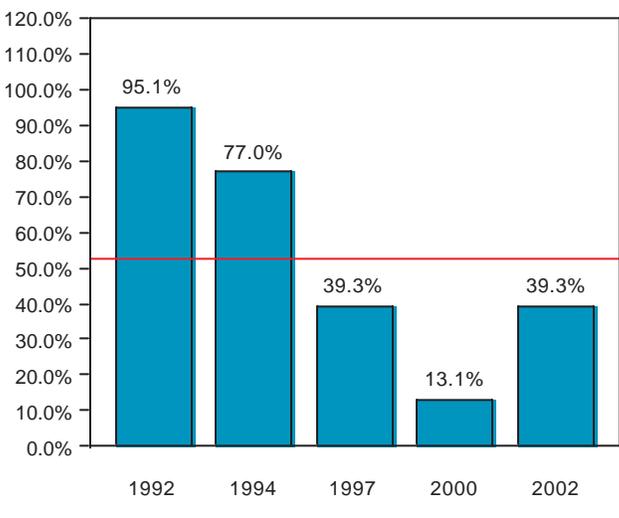


Figure 17.11



Births

Deaths

Figure 17.12

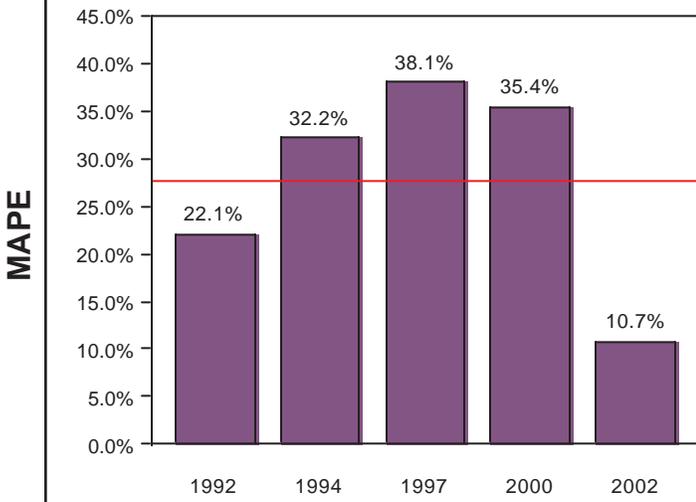


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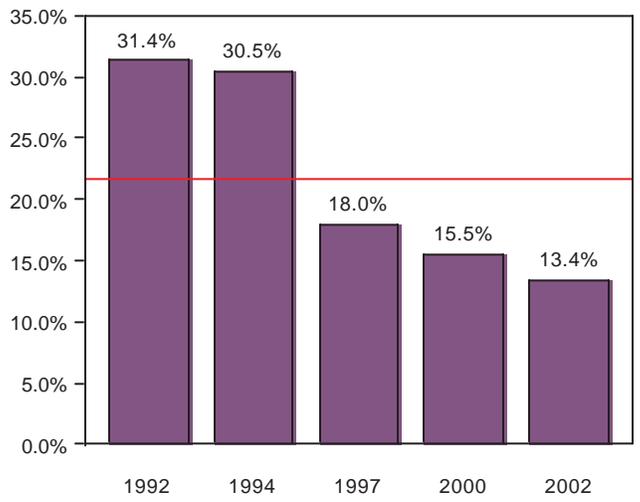


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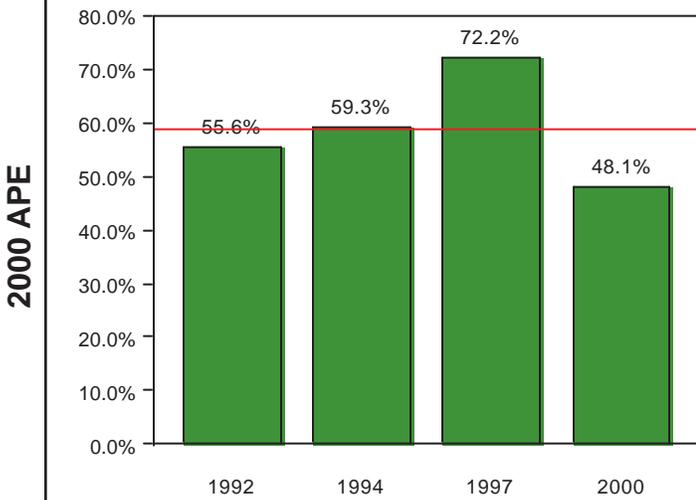


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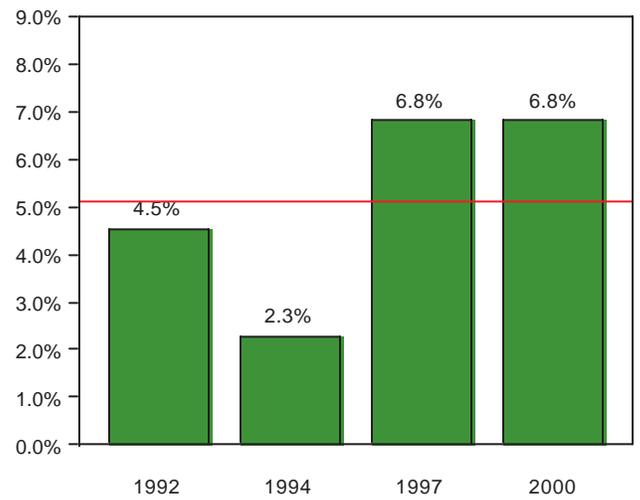


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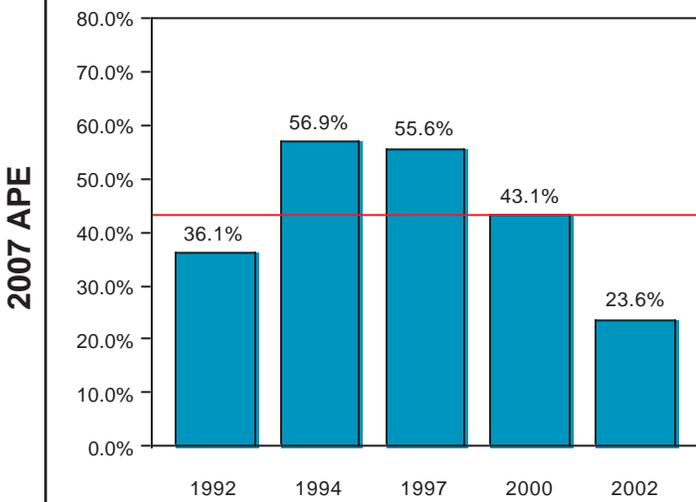
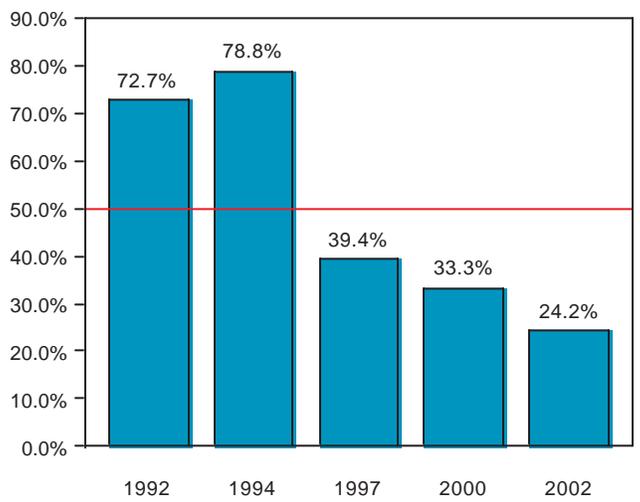


Figure 17.17



Grand County

The 1994 baseline was the most accurate projection of the 2000 population with an absolute percent error of 2.7%. The 1984 and 1986 baselines were also close, all within a 4.9% error. The 1997 baseline was the least accurate projection of the 2000 population with an absolute percent error of 29.5%. The 1967 baseline, the oldest projection of the 2000 population, had an absolute percent error of 17.9%. The average absolute percent error of all baselines for the 2000 population projection was 14.1%.

Overall, the 1994 baseline was the most accurate population projection with a mean absolute percent error of 4.7%. The 1979 baseline was the least accurate population projection with a mean absolute percent error of 33.1%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 12.3%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 28.1%, compared to 42.6% and 366.0% for births and net migration, respectively.

Figure 18.1
Population Components

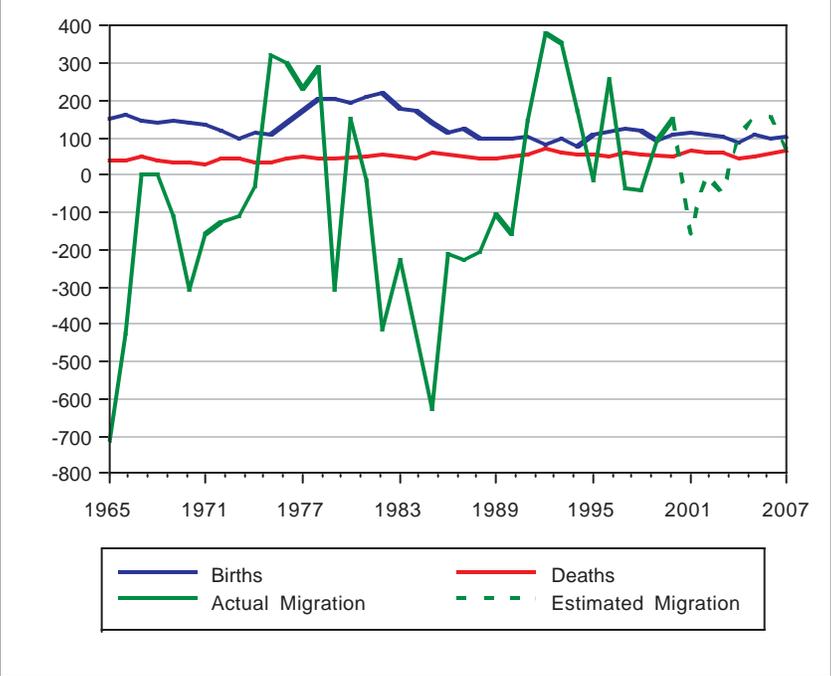


Figure 18.2
Population Projections

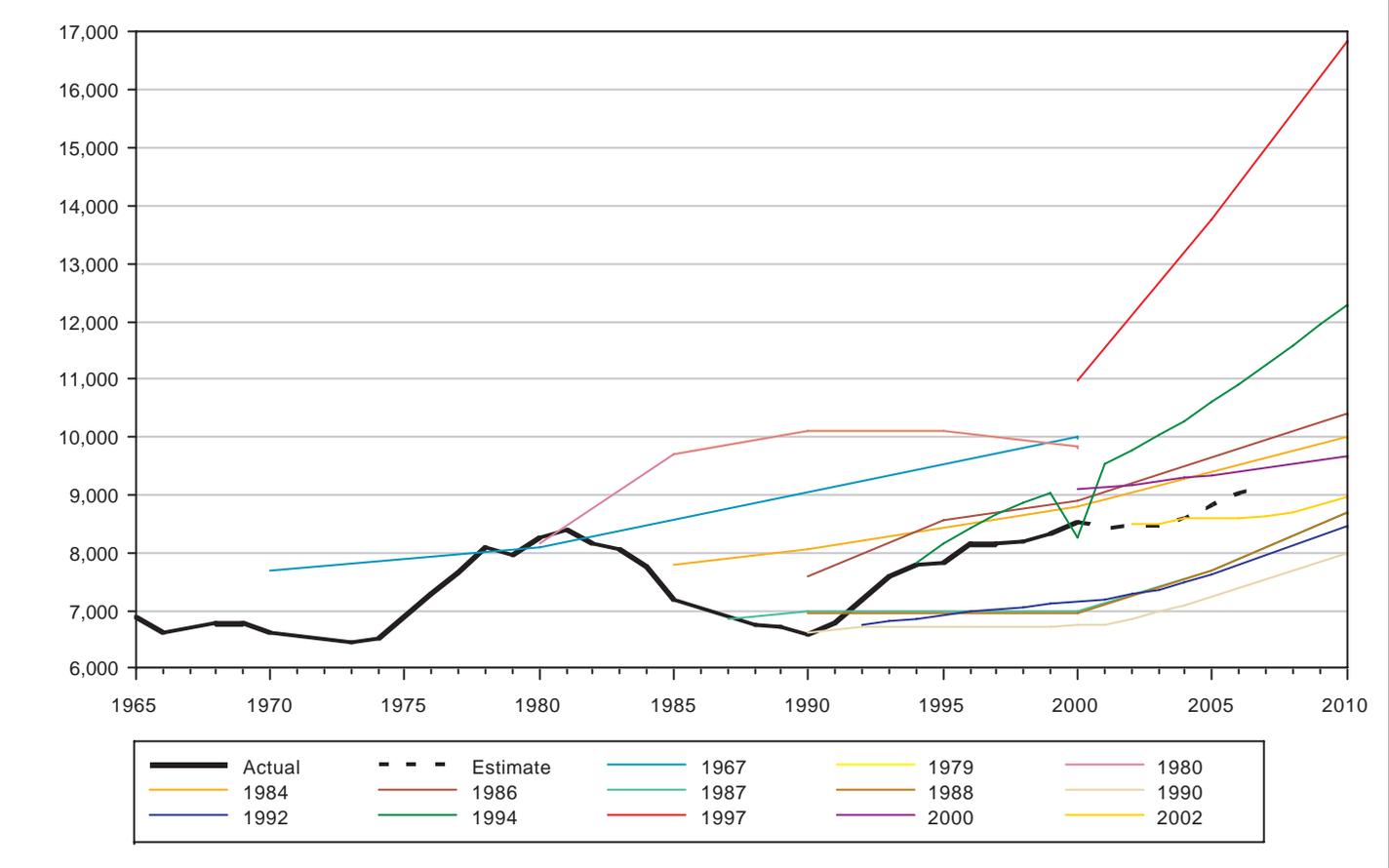


Figure 18.3
Birth Projections

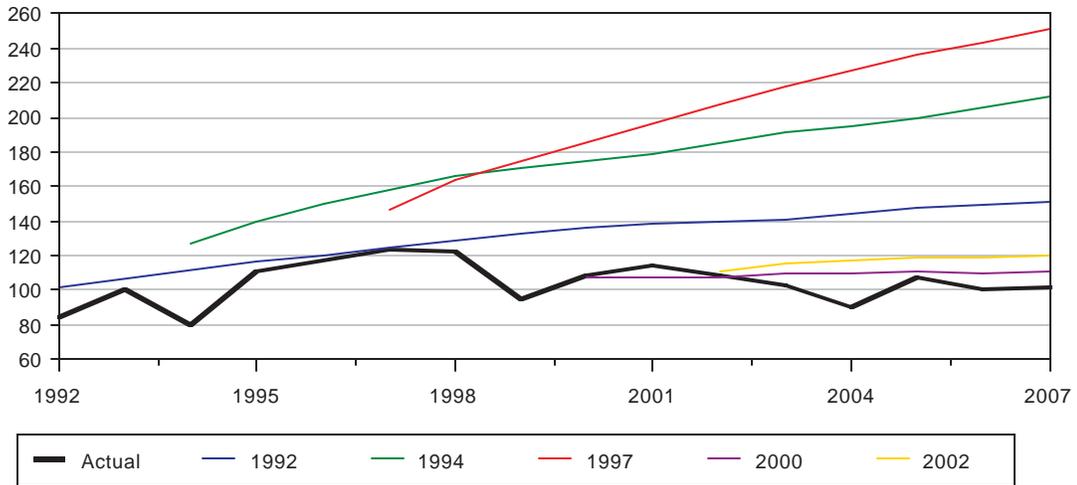


Figure 18.4
Death Projections

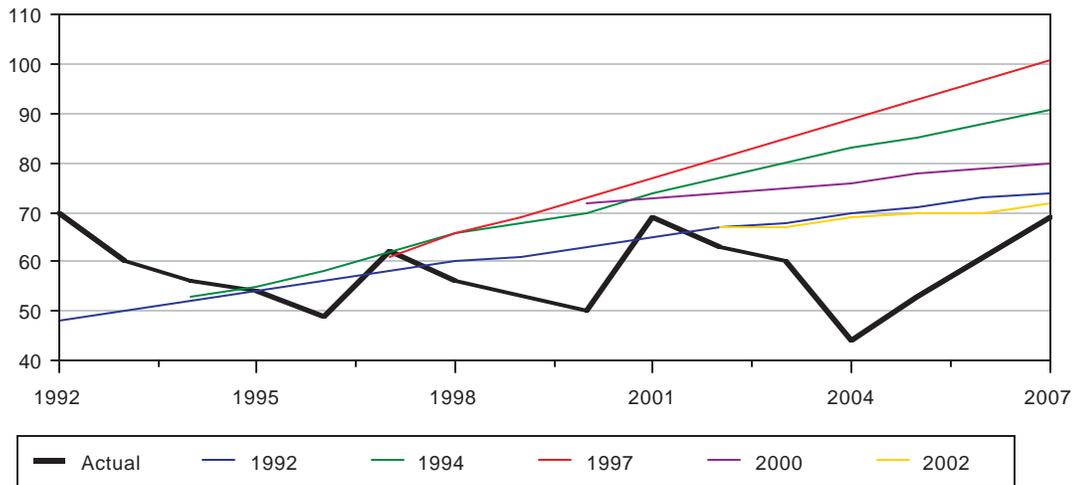
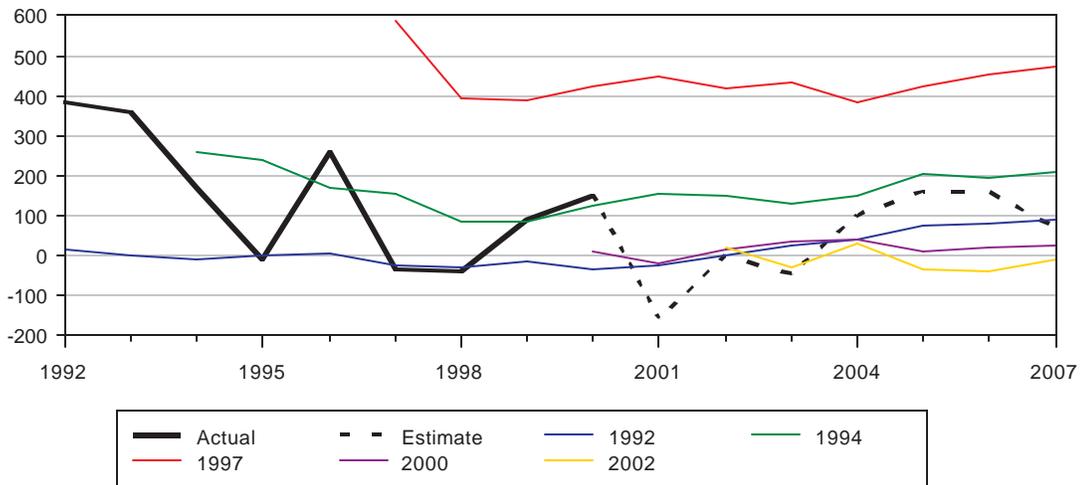


Figure 18.5
Migration Projections



Population

Net Migration

Figure 18.6

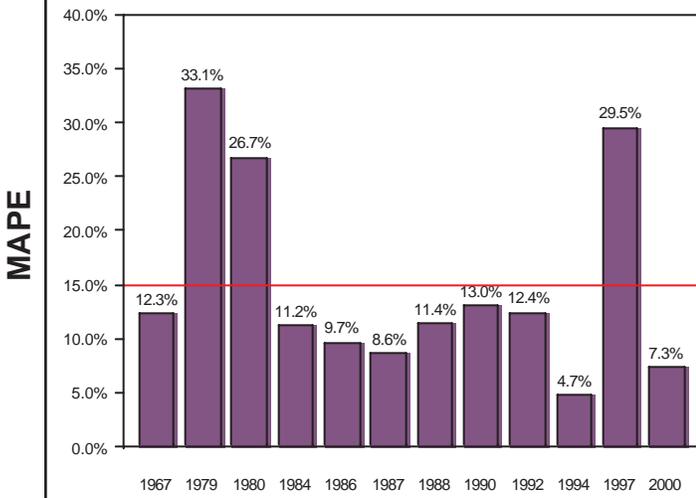


Figure 18.9

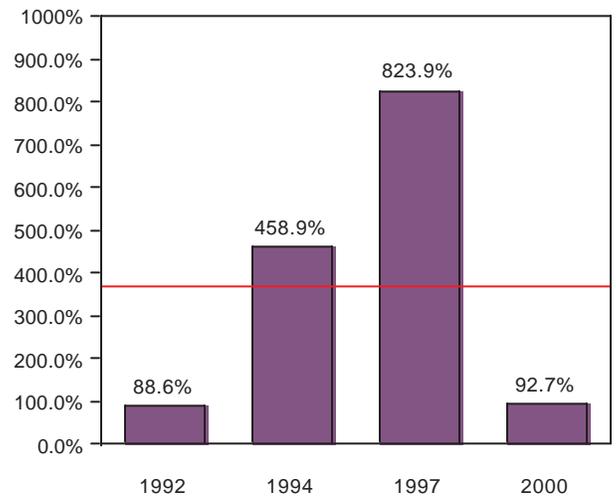


Figure 18.7

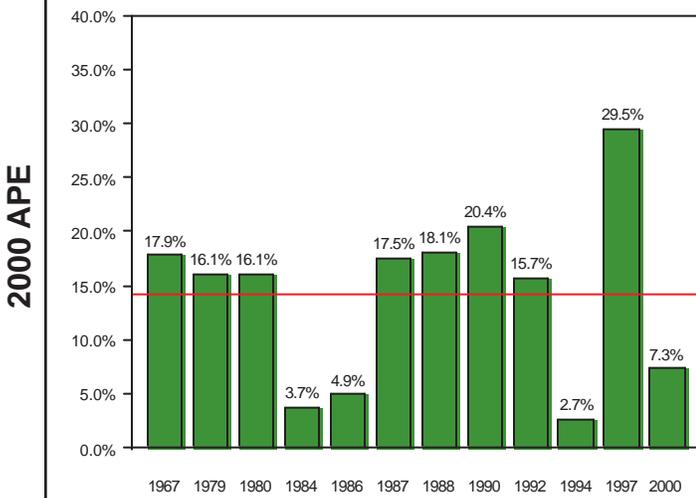


Figure 18.10

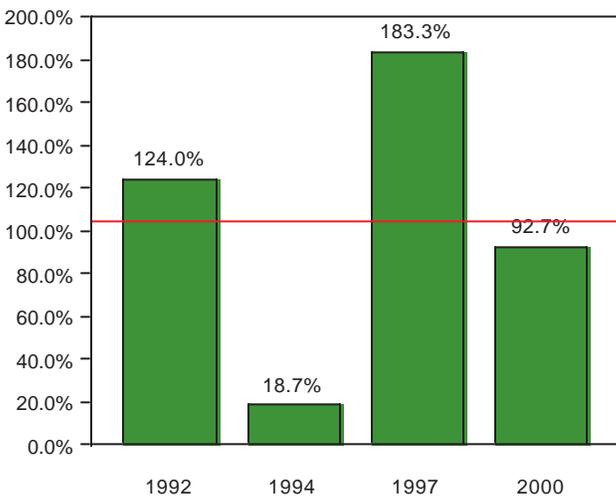


Figure 18.8

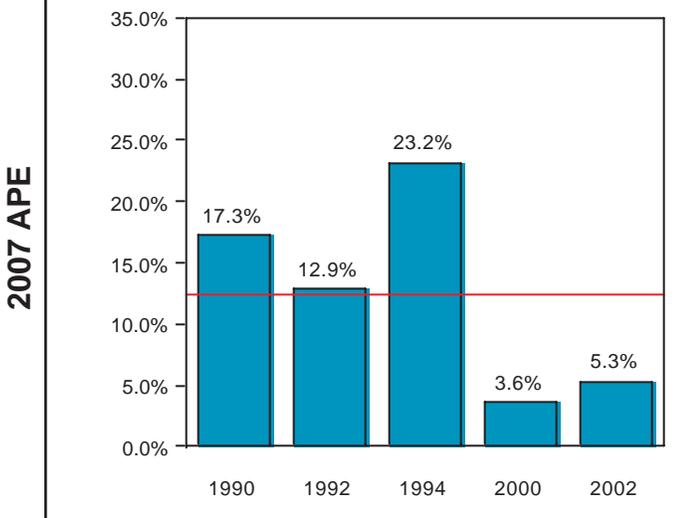
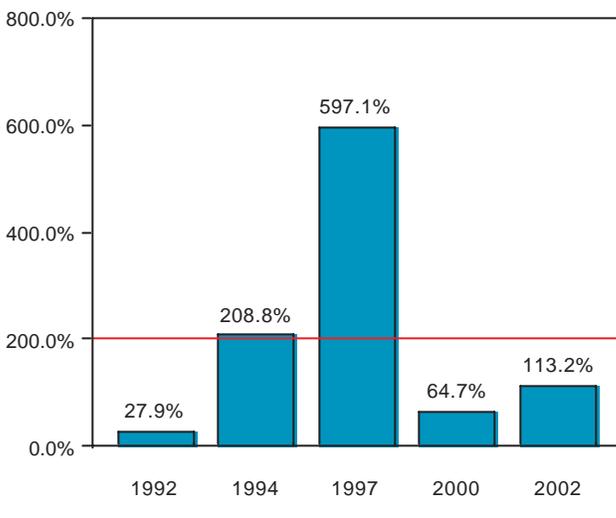


Figure 18.11



Births

Deaths

Figure 18.12

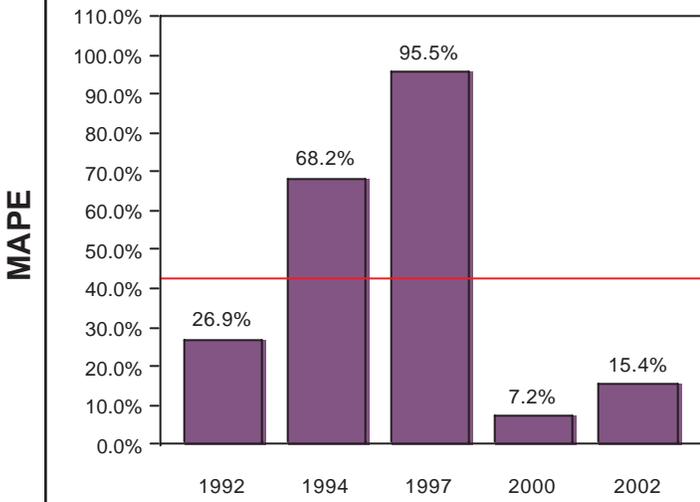


Figure 18.15

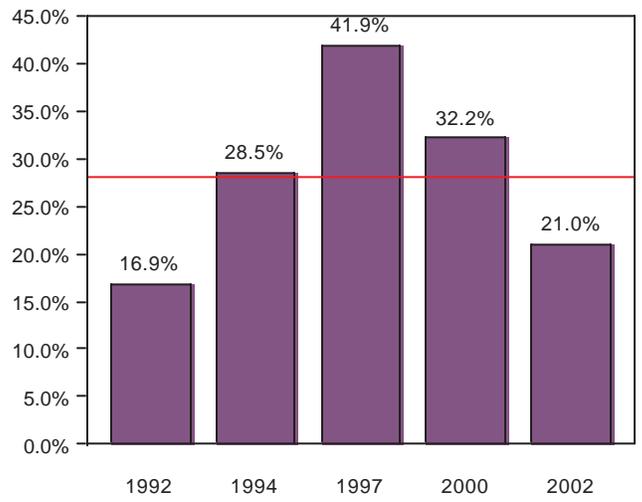


Figure 18.13

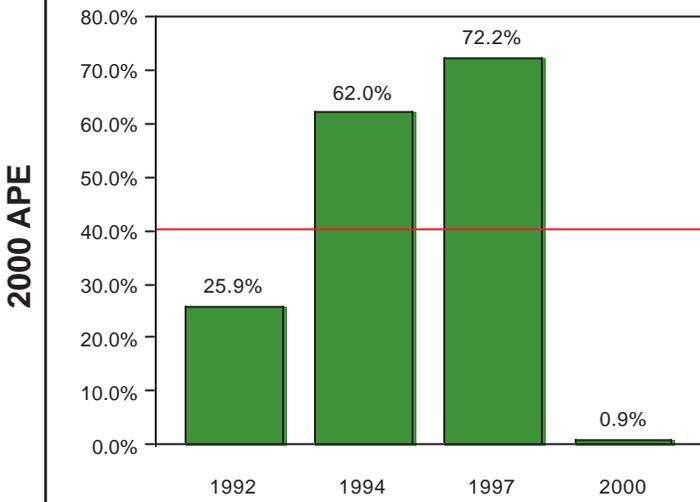


Figure 18.16

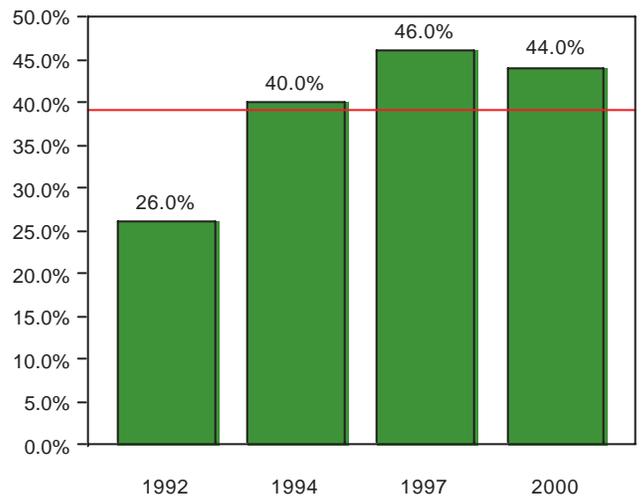


Figure 18.14

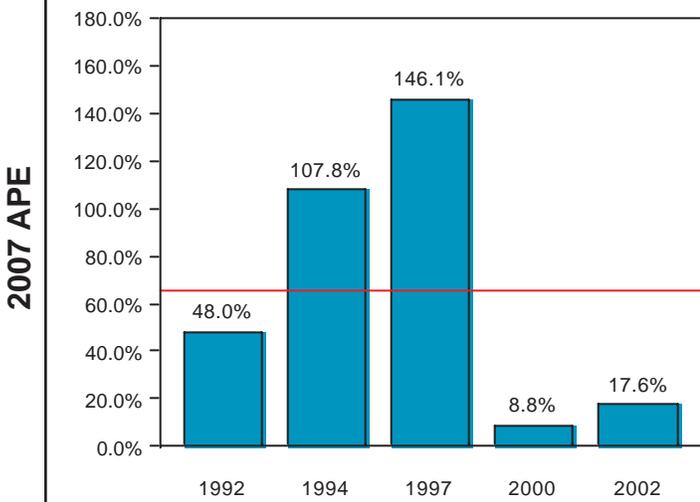
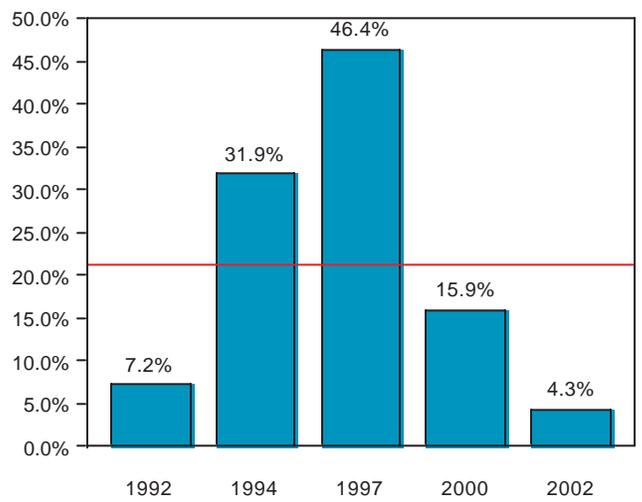


Figure 18.17



Iron County

The 1997 baseline was the most accurate projection of the 2000 population with an absolute percent error of 1.8%. The 2000 baseline was also close with a 3.6% error. The 1967 baseline, the oldest projection of the 2000 population, was the least accurate projection with an absolute percent error of 56.5%. The average absolute percent error of all baselines for the 2000 population projection was 23.9%.

Overall, the 1997 baseline was the most accurate population projection with a mean absolute percent error of 1.8%. The 1967 baseline, the oldest projection, was the least accurate population projection with a mean absolute percent error of 29.0%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 10.6%, compared to 16.1% and 58.6% for births and net migration, respectively.

Figure 19.1
Population Components

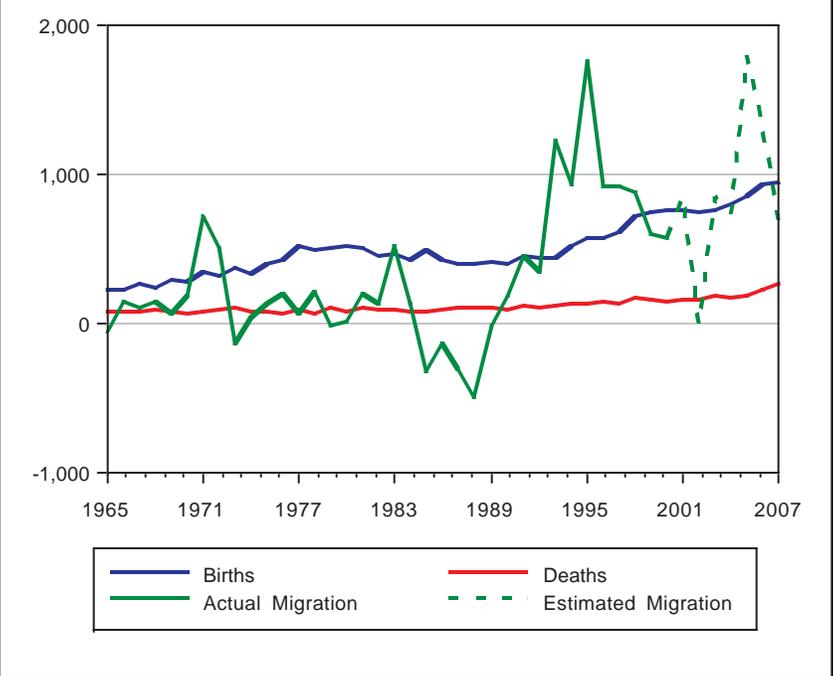
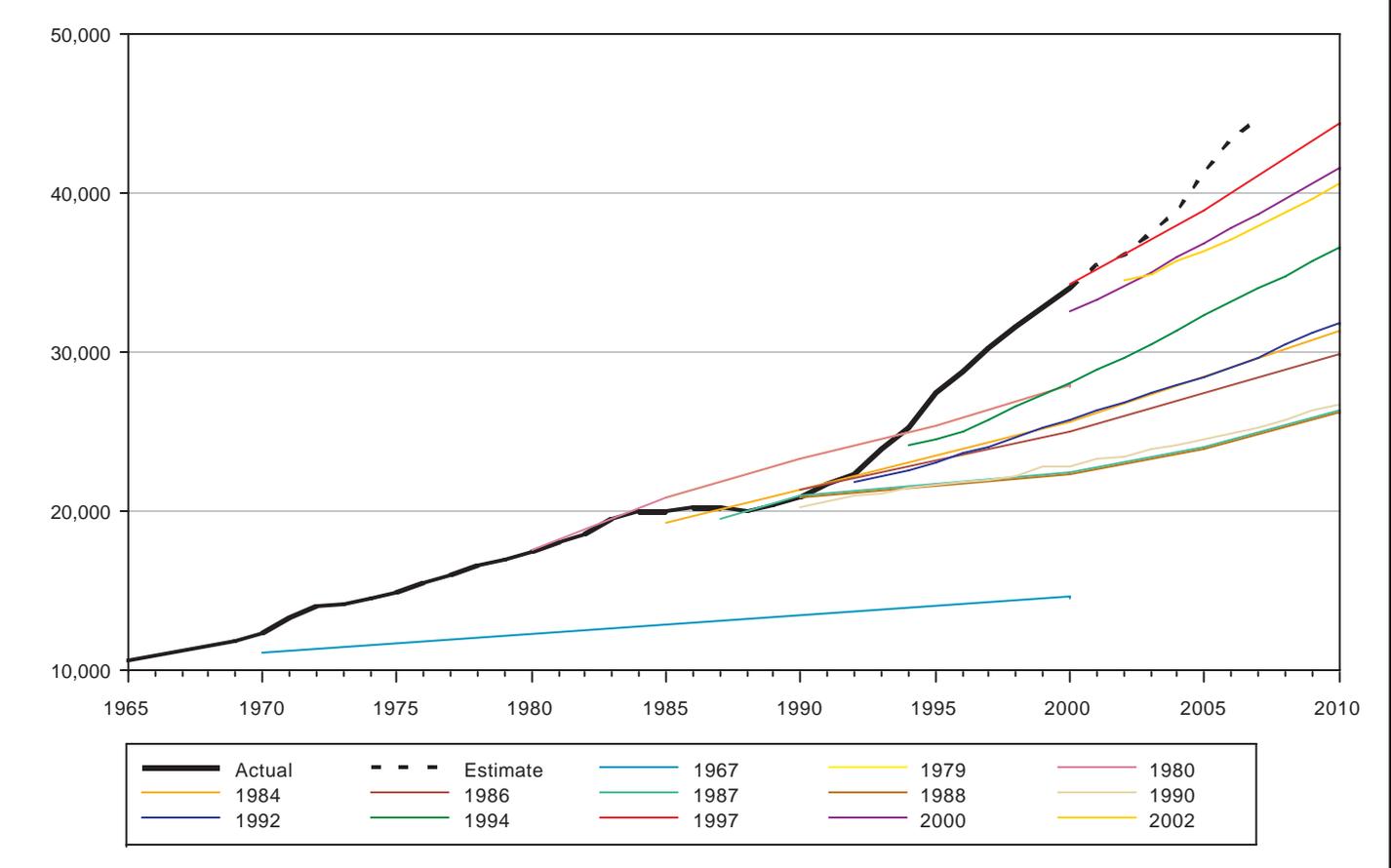
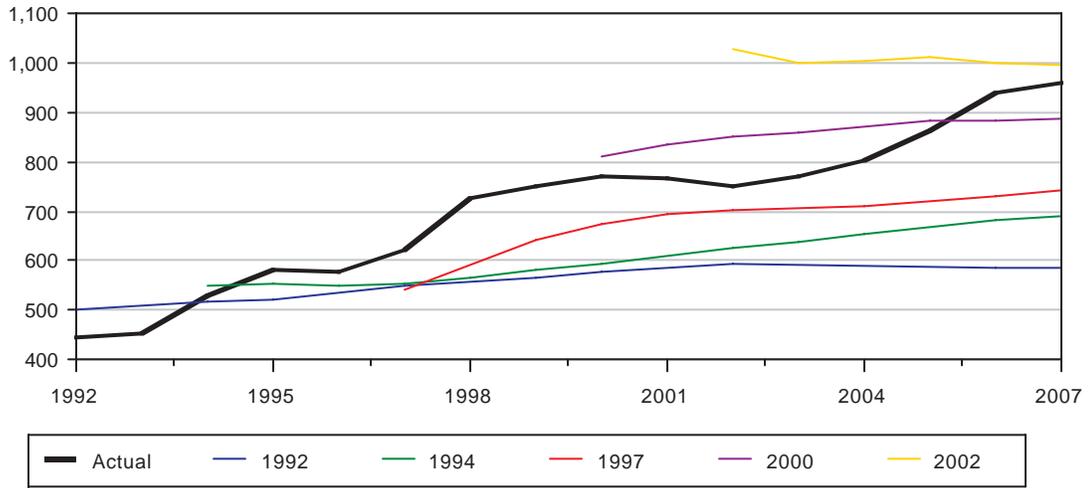


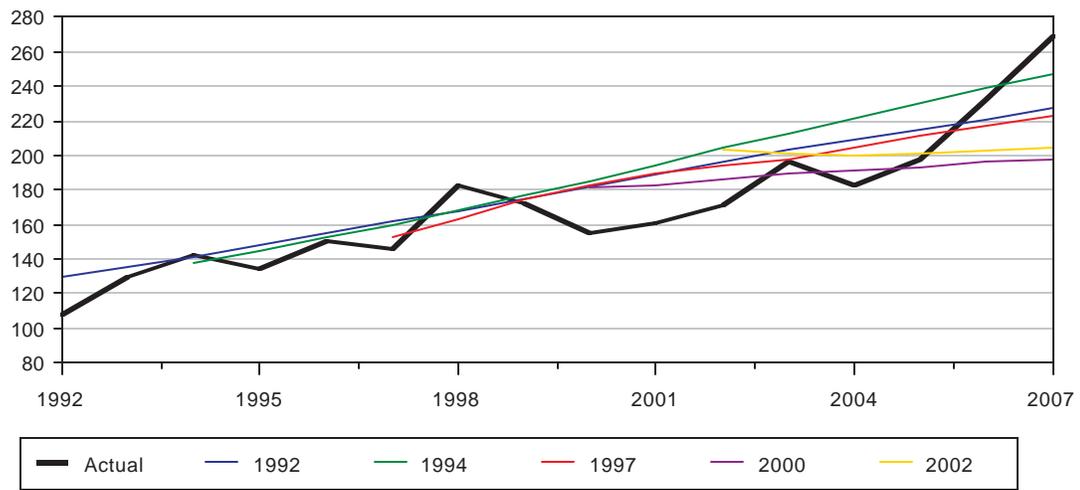
Figure 19.2
Population Projections



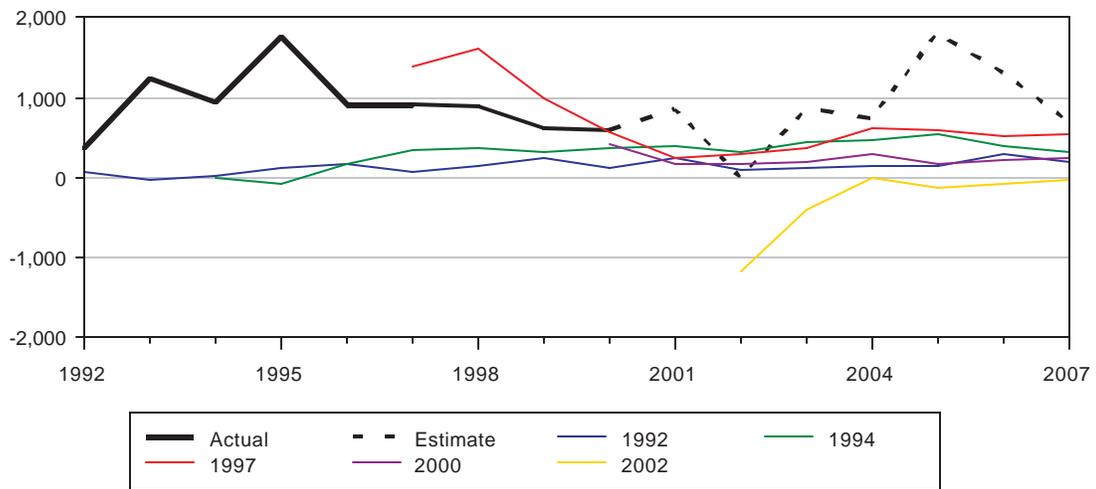
**Figure 19.3
Birth Projections**



**Figure 19.4
Death Projections**



**Figure 19.5
Migration Projections**



Population

Net Migration

Figure 19.6

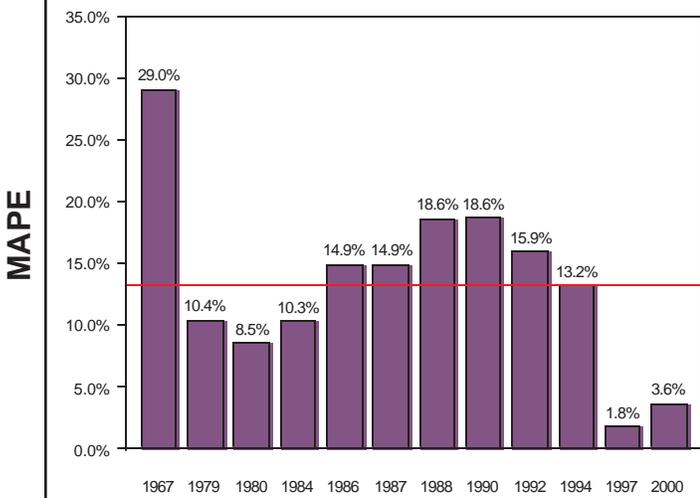


Figure 19.9

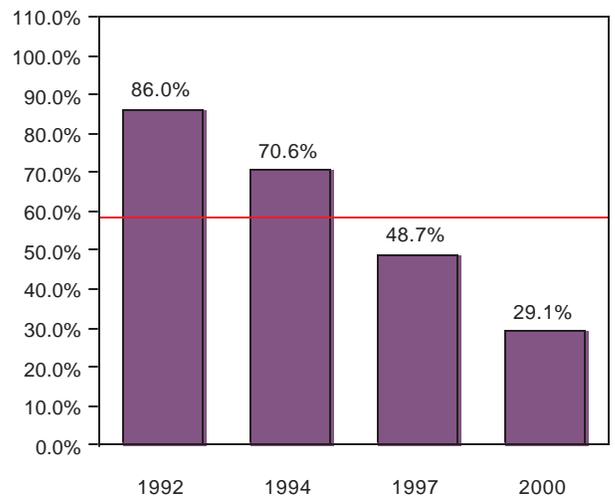


Figure 19.7

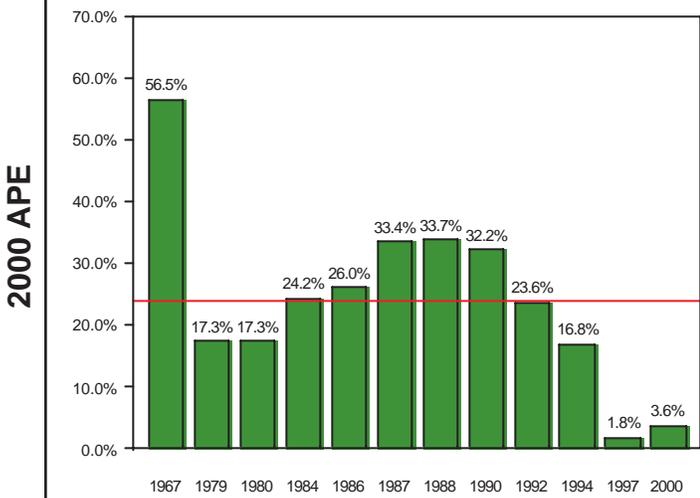


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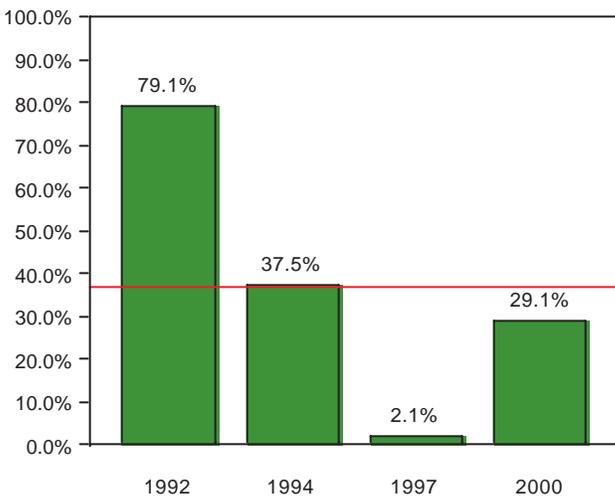


Figure 19.8

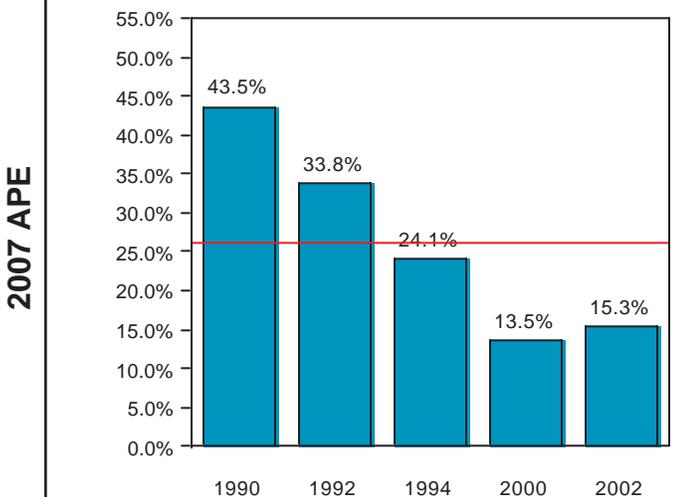
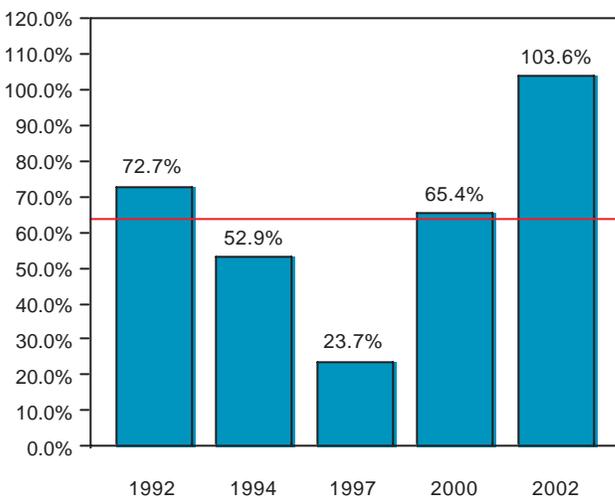


Figure 19.11



Births

Deaths

Figure 19.12

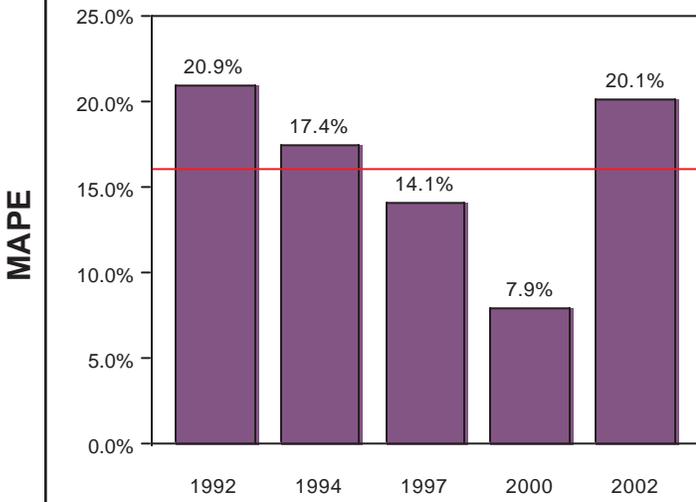


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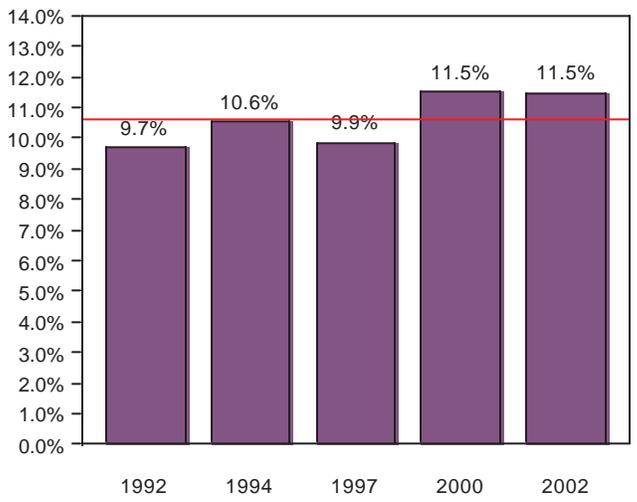


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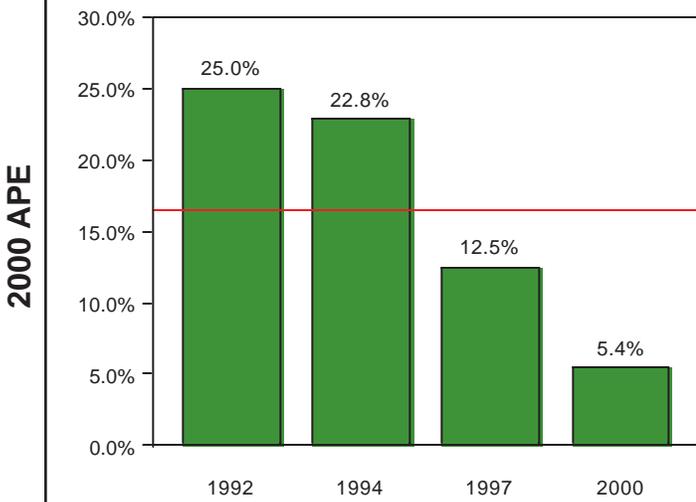


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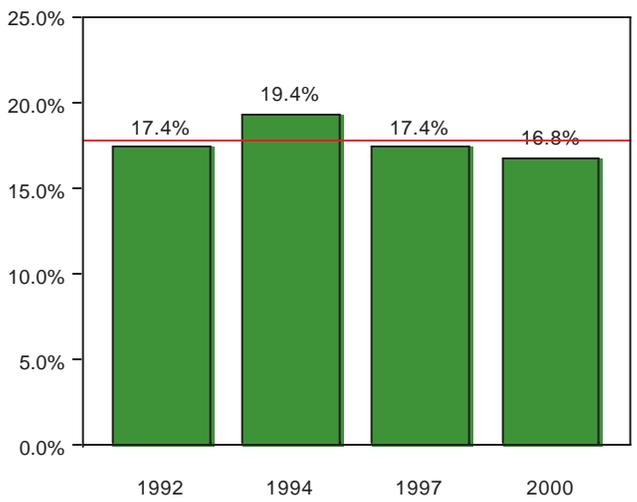


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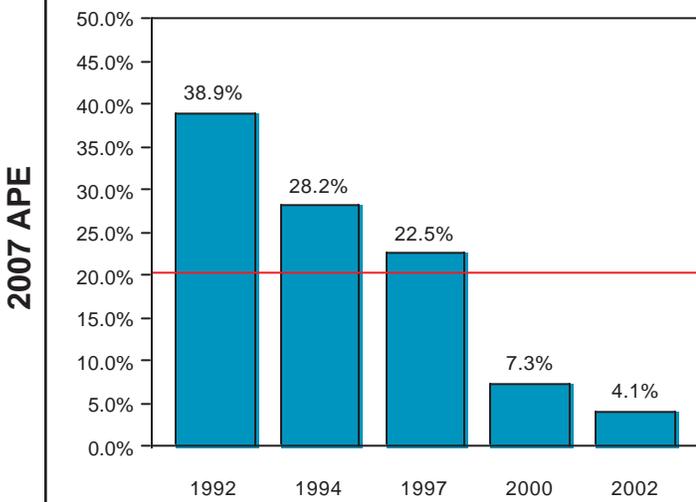
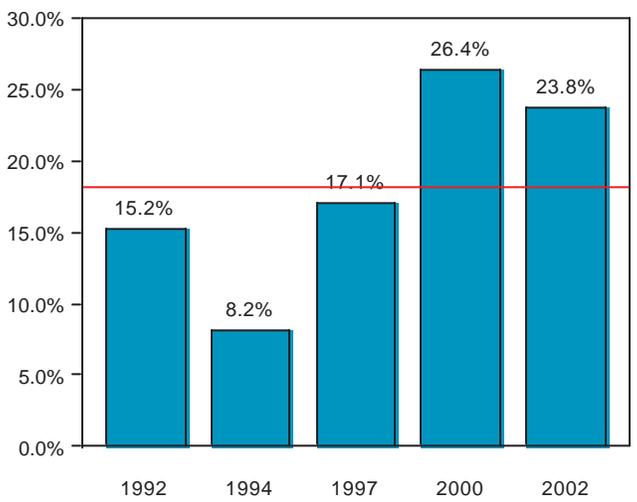


Figure 19.17



Juab County

The 1997 baseline was the most accurate projection of the 2000 population with an absolute percent error of 0.6%. The 1984 and 2000 baselines were also close, both within a 5.3% error. The 1967 and 1990 baselines were the least accurate projections of the 2000 population with absolute percent errors of 27.2%. The average absolute percent error of all baselines for the 2000 population projection was 18.6%.

Overall, the 1997 baseline was the most accurate population projection with a mean absolute percent error of 0.6%. The 1979 baseline was the least accurate population projection with a mean absolute percent error of 30.0%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 8.8%.

Of the components of population change, projections for births were most accurate with an overall mean absolute percent error for all baselines of 12.1%, compared to 15.2% and 140.3% for deaths and net migration, respectively.

Figure 20.1
Population Components

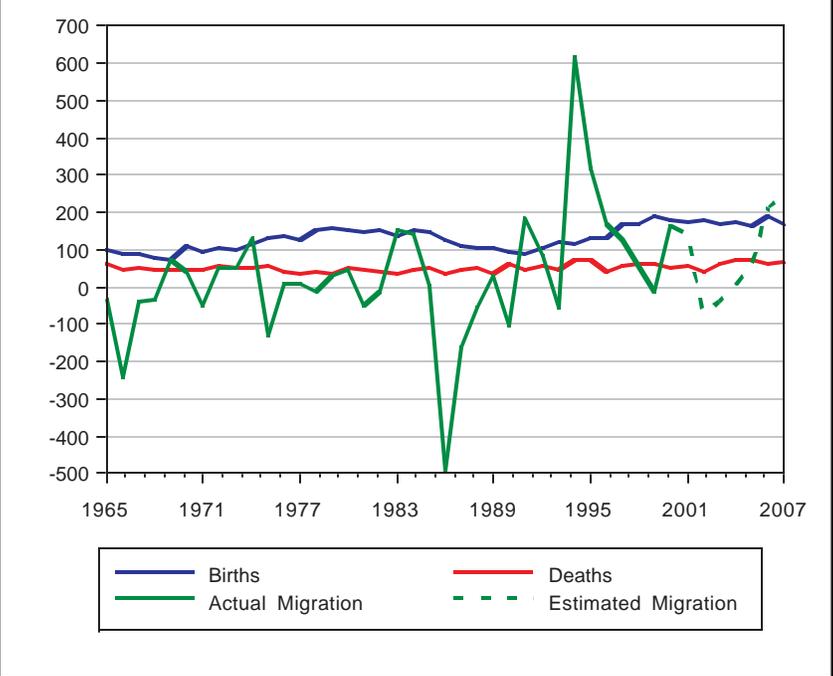


Figure 20.2
Population Projections

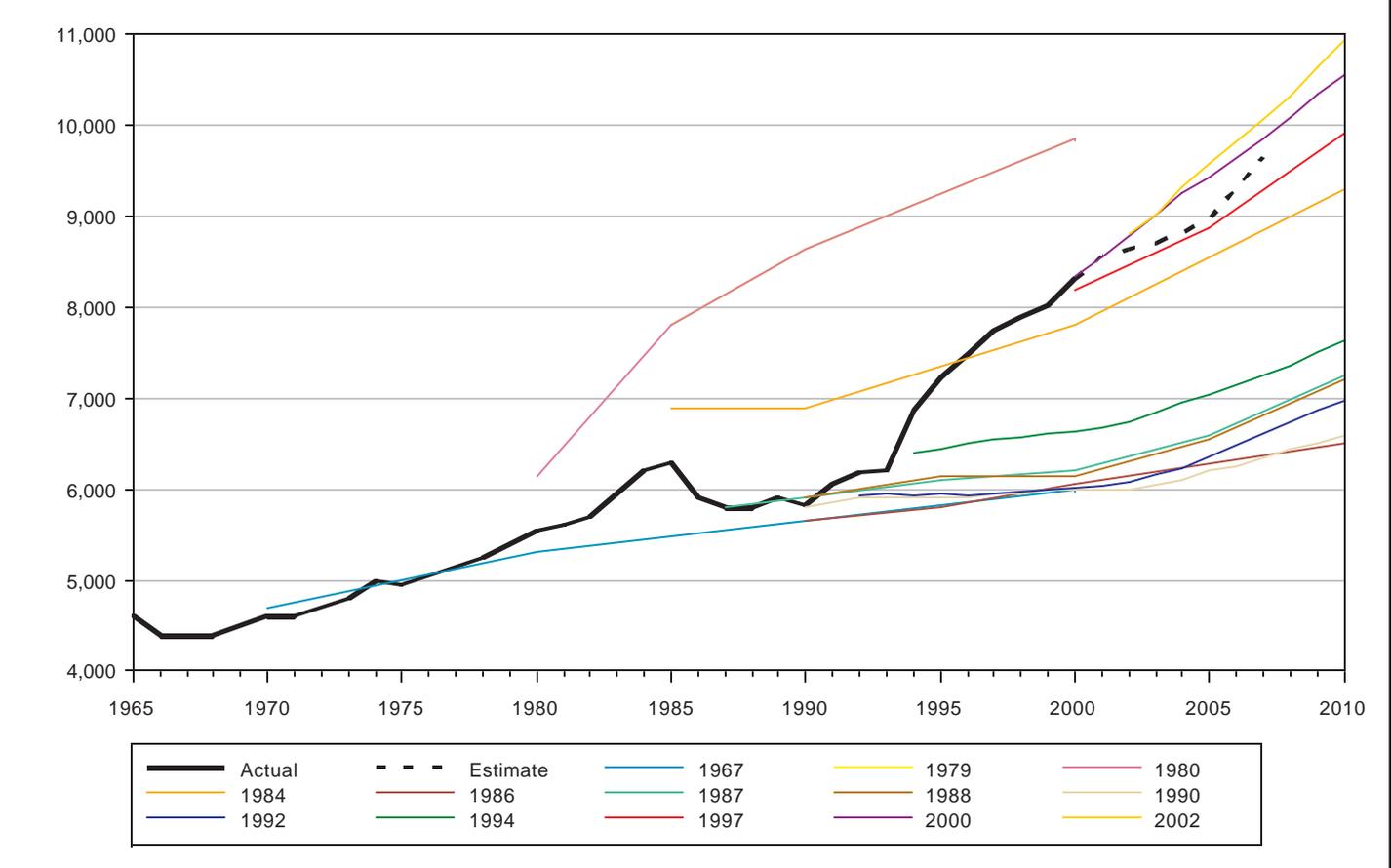


Figure 20.3
Birth Projections

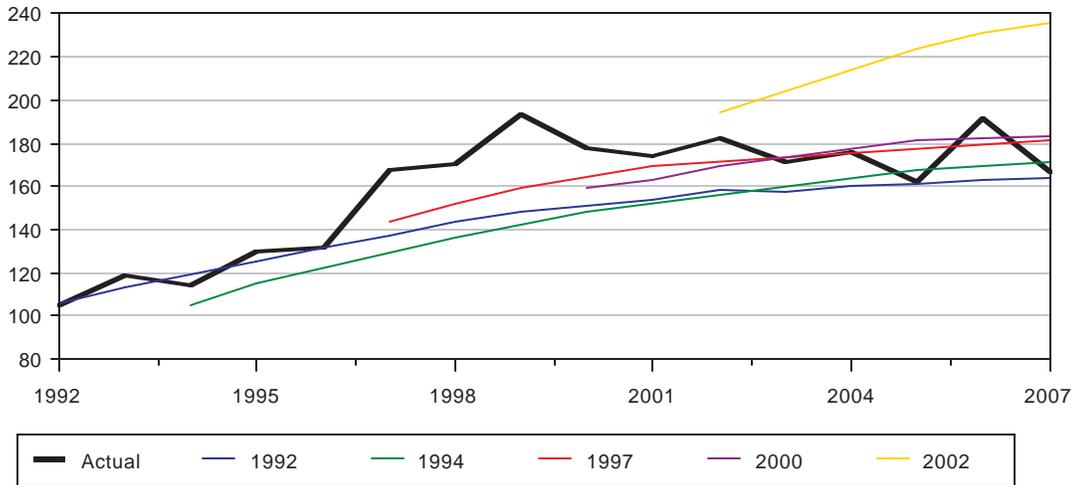


Figure 20.4
Death Projections

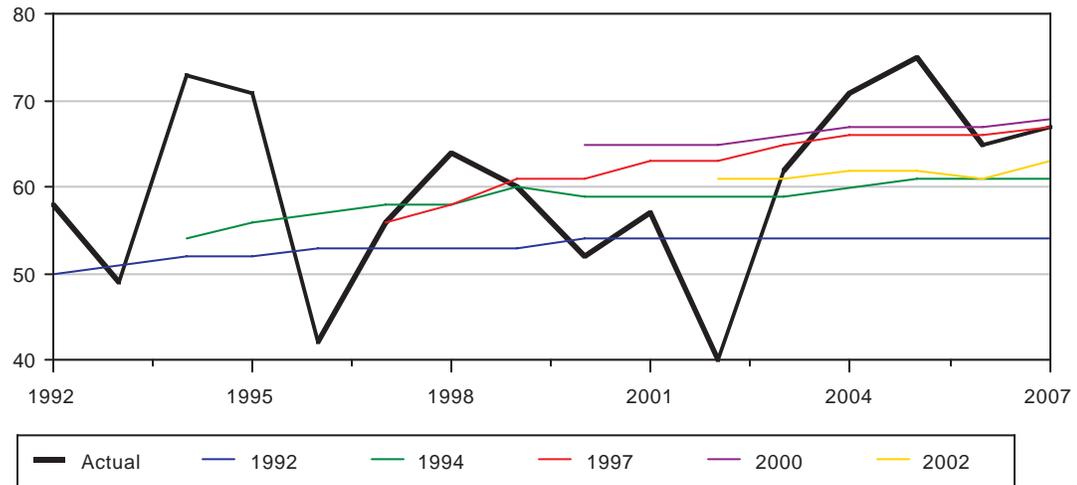
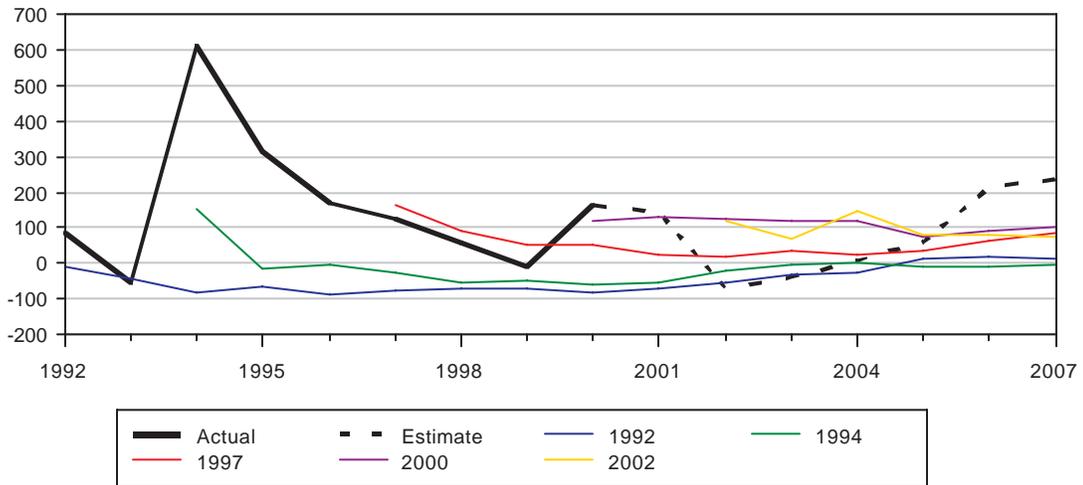


Figure 20.5
Migration Projections



Population

Net Migration

Figure 20.6

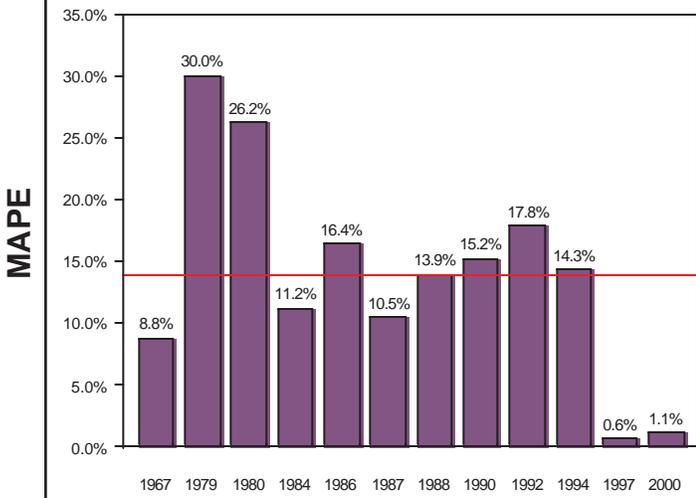


Figure 20.9

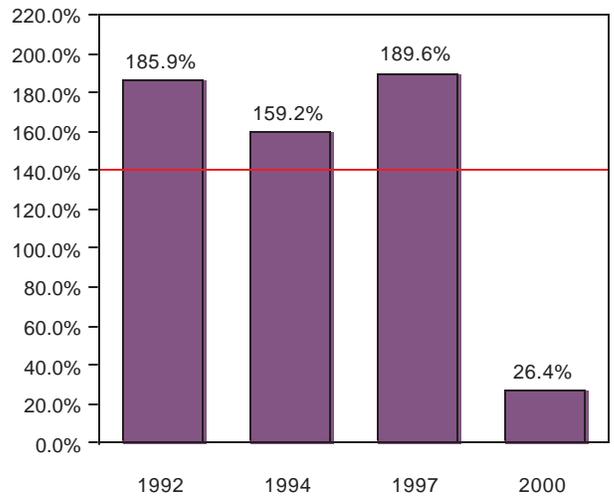


Figure 20.7

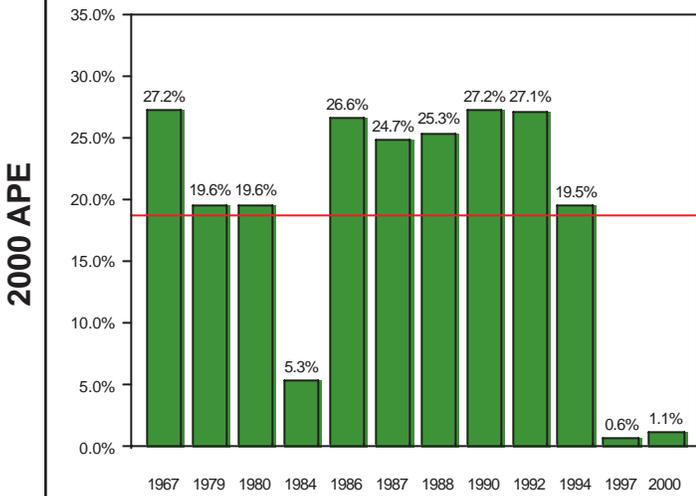


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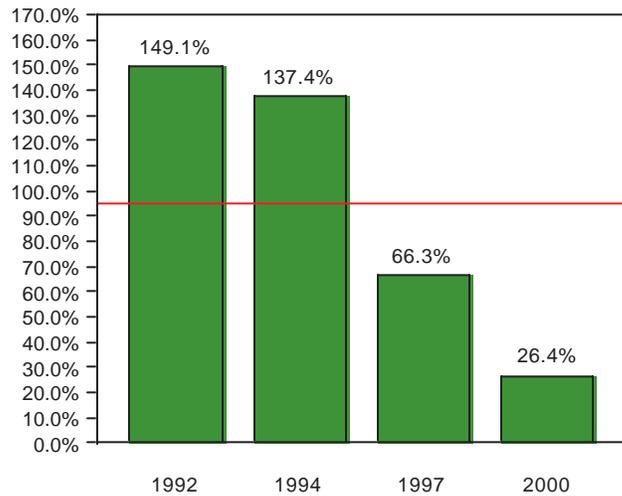


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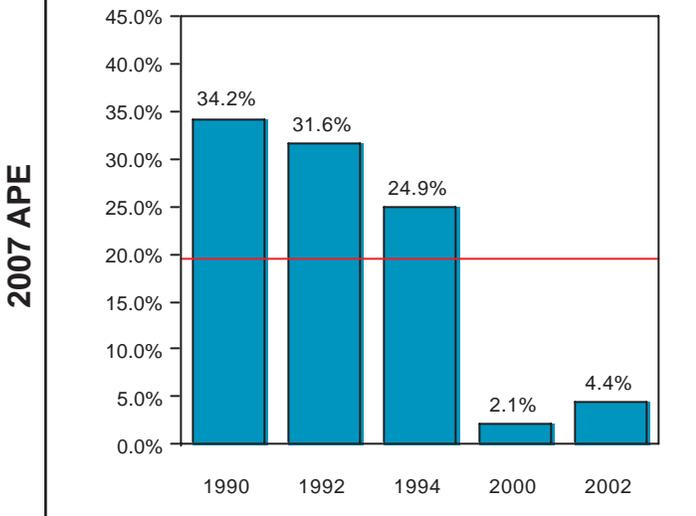
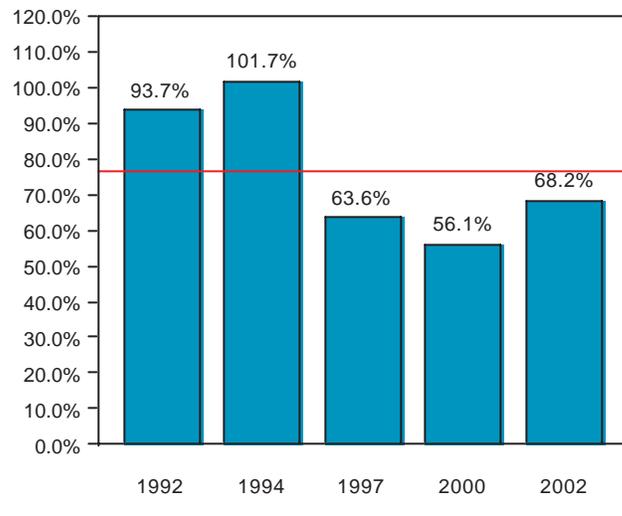
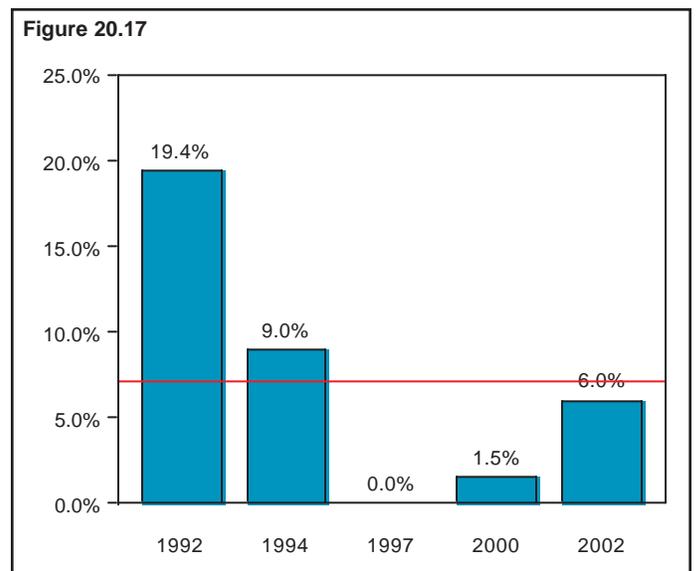
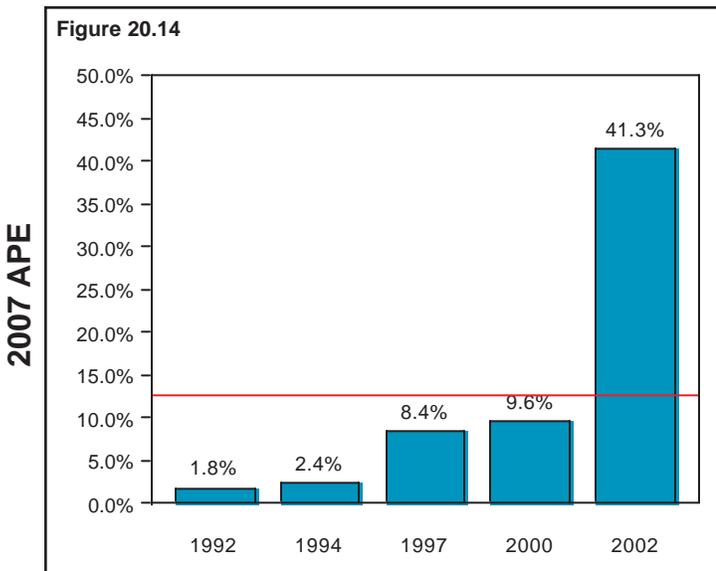
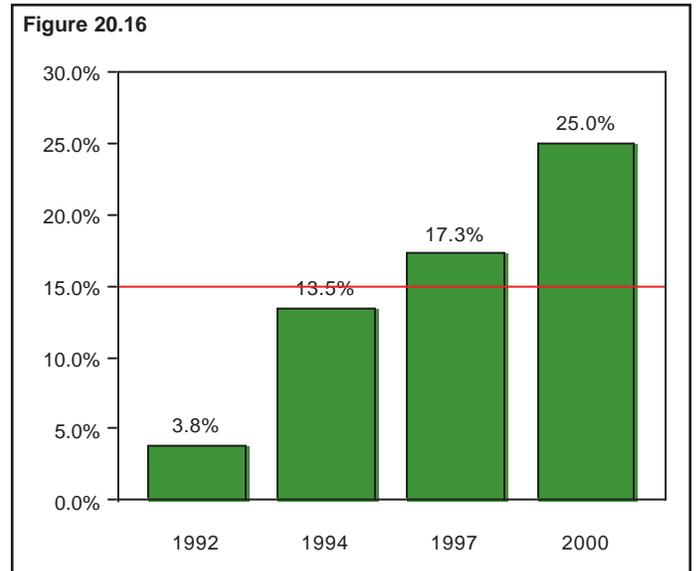
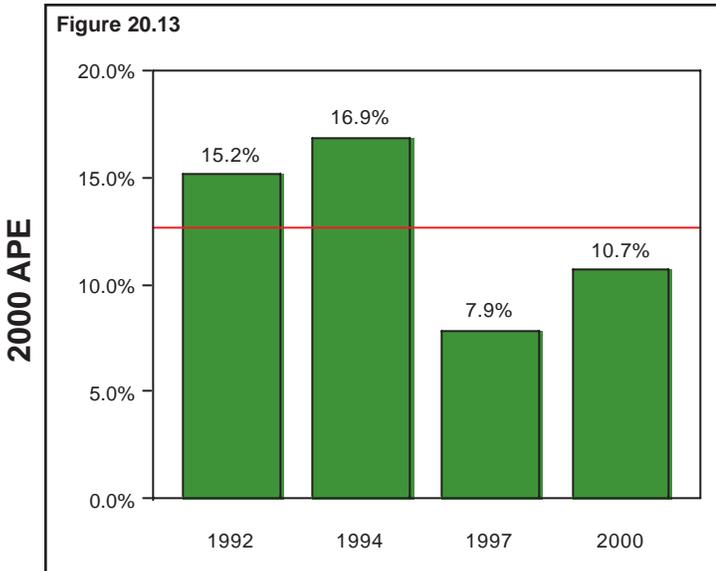
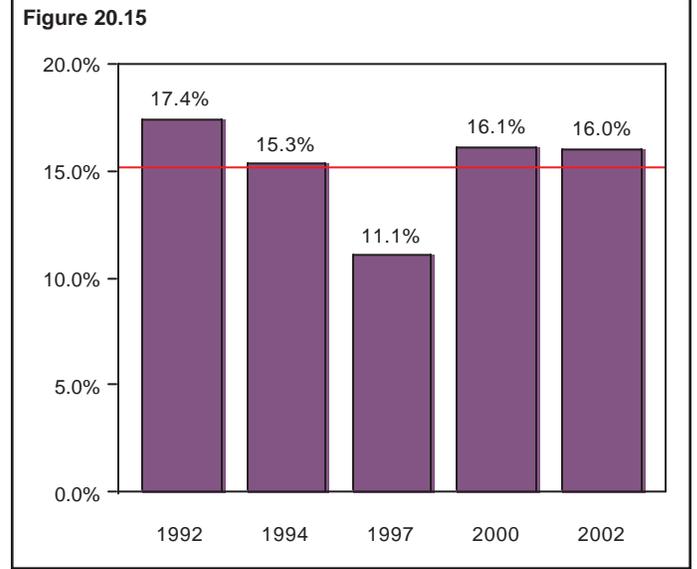
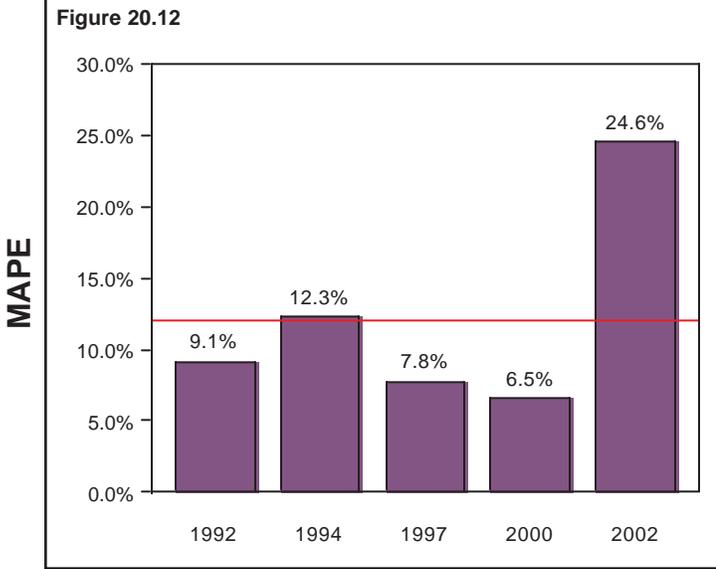


Figure 20.11



Births

Deaths



Kane County

The 1990 baseline was the most accurate projection of the 2000 population with an absolute percent error of 2.4%. The 1986, 1987, 1988, and 2000 baselines were also close, all within a 4.9% error. The 1967 baseline, the oldest projection, was the least accurate projection of the 2000 population with an absolute percent error of 98.5%. The average absolute percent error of all baselines for the 2000 population projection was 23.0%.

Overall, the 1990 baseline was the most accurate population projection with a mean absolute percent error of 3.0%. The 1967 baseline, the oldest projection, was the least accurate population projection with a mean absolute percent error of 73.5%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 22.0%, compared to 60.4% and 576.6% for births and net migration, respectively.

Figure 21.1
Population Components

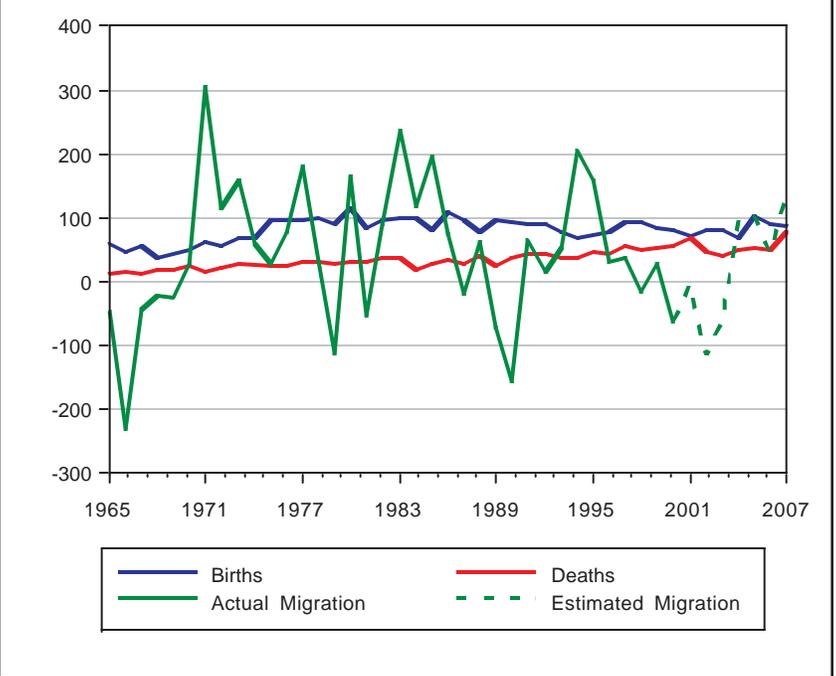
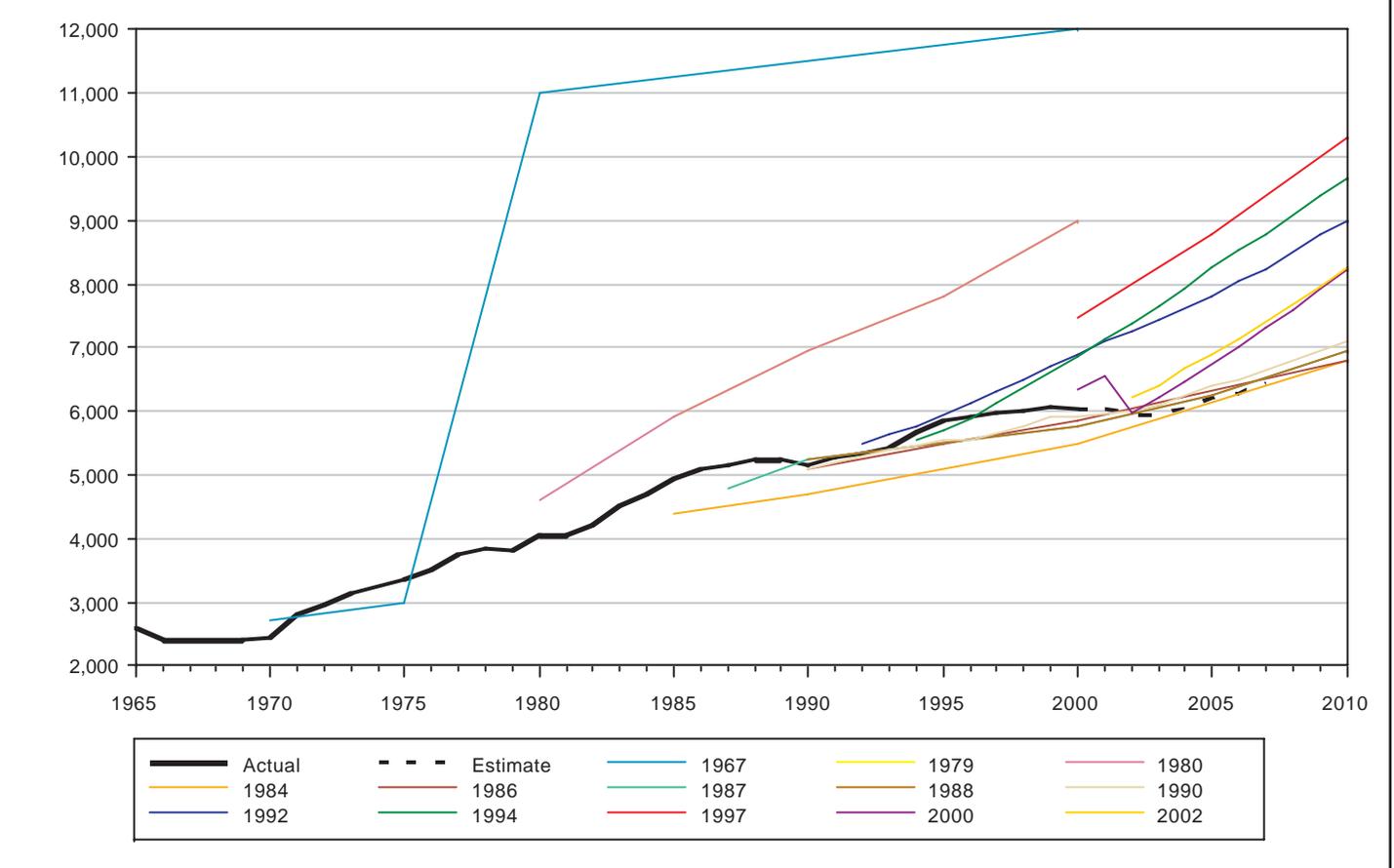
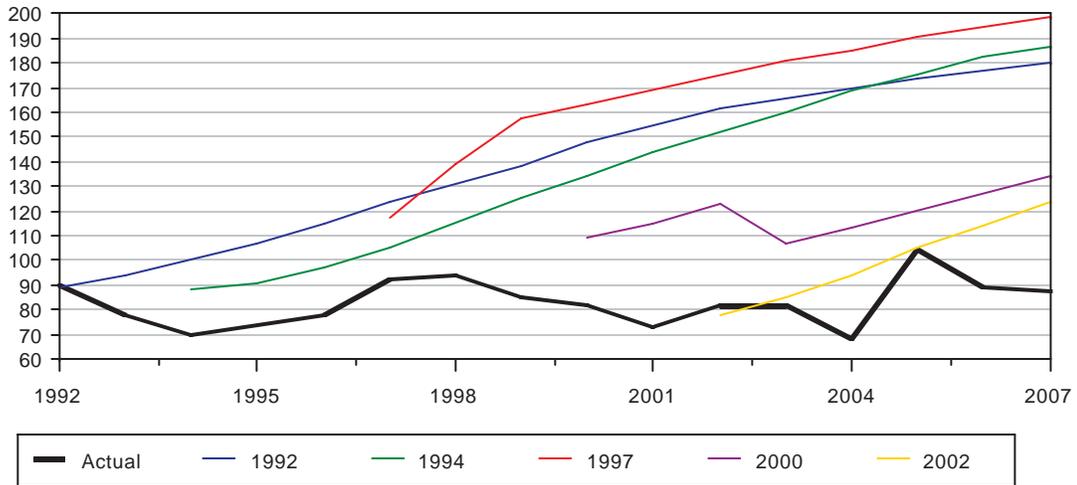


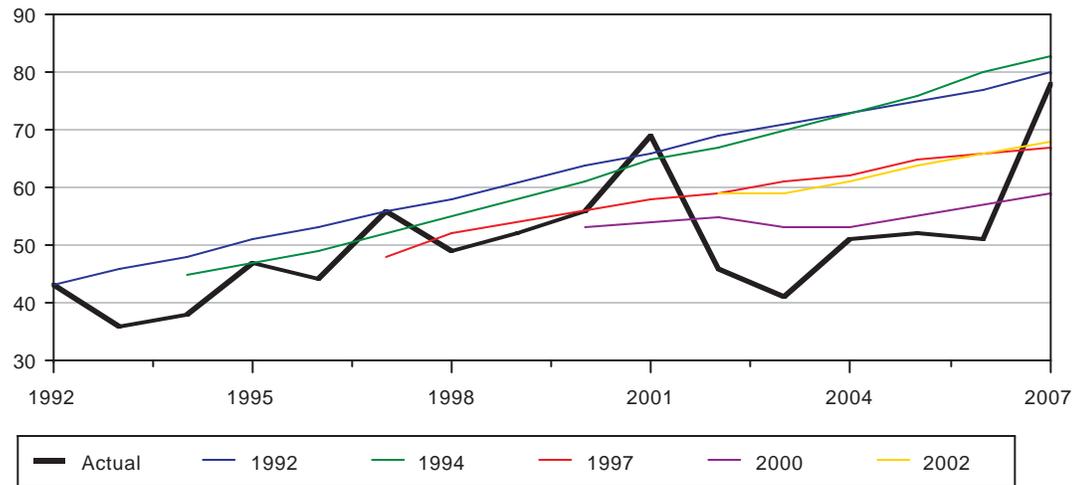
Figure 21.2
Population Projections



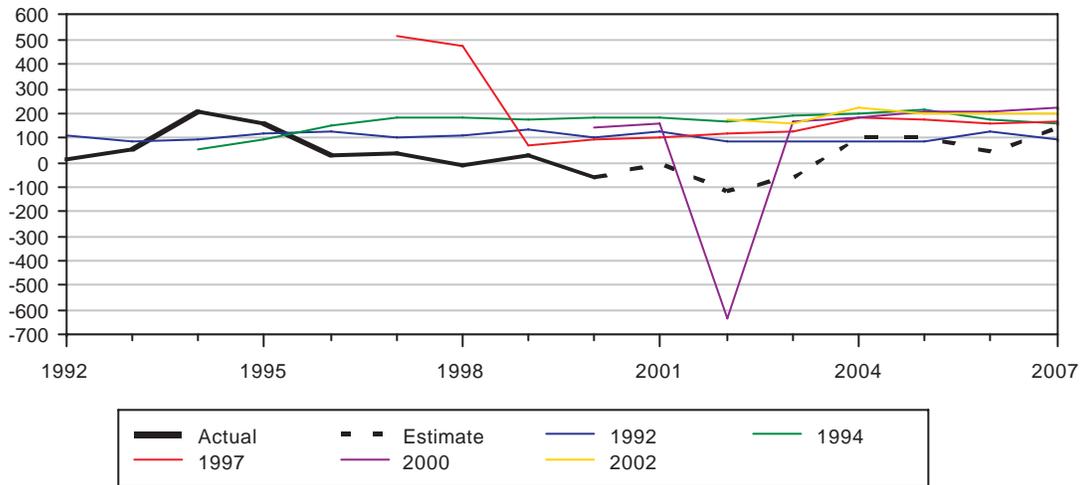
**Figure 21.3
Birth Projections**



**Figure 21.4
Death Projections**



**Figure 21.5
Migration Projections**



Population

Net Migration

Figure 21.6

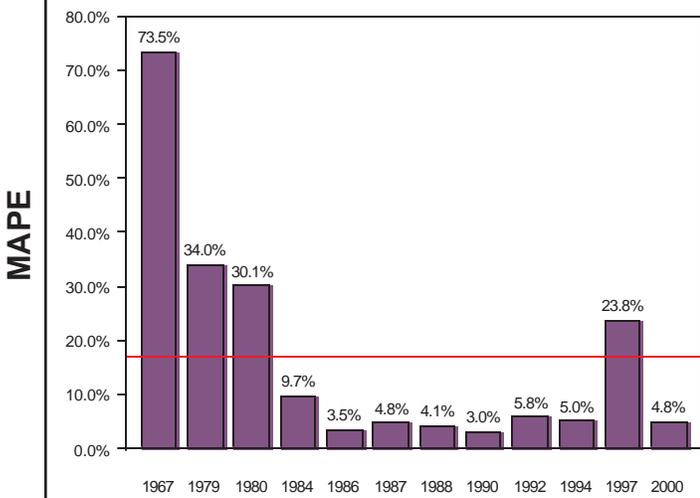


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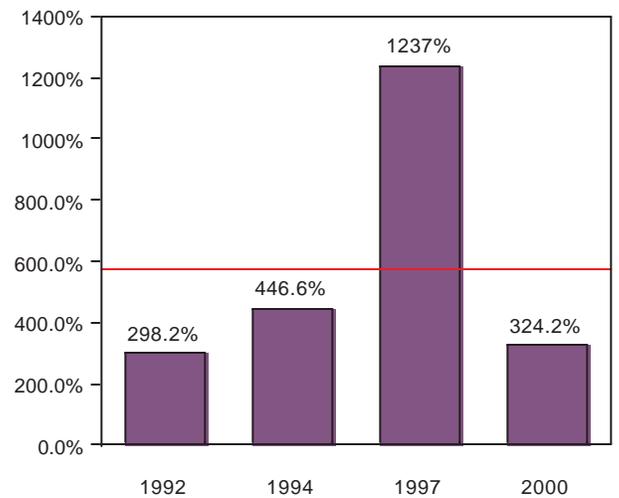


Figure 21.7

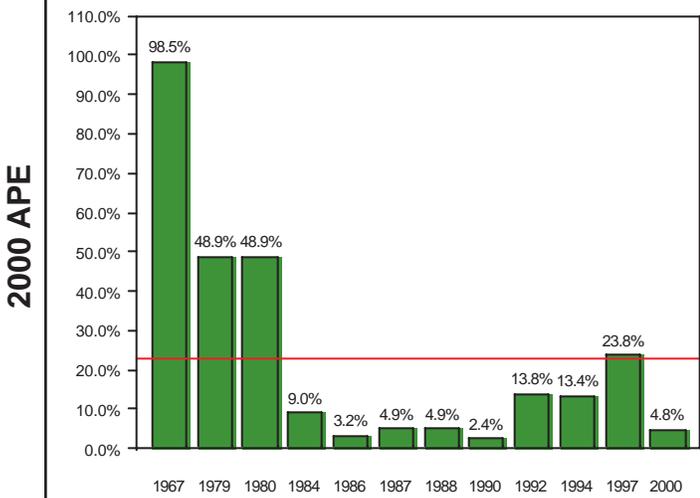


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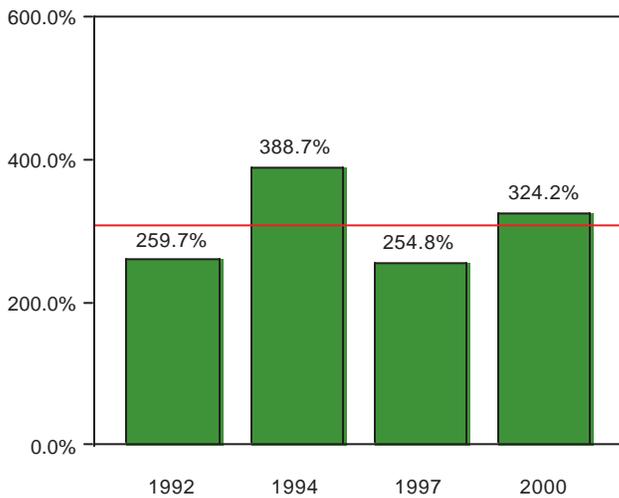


Figure 21.8

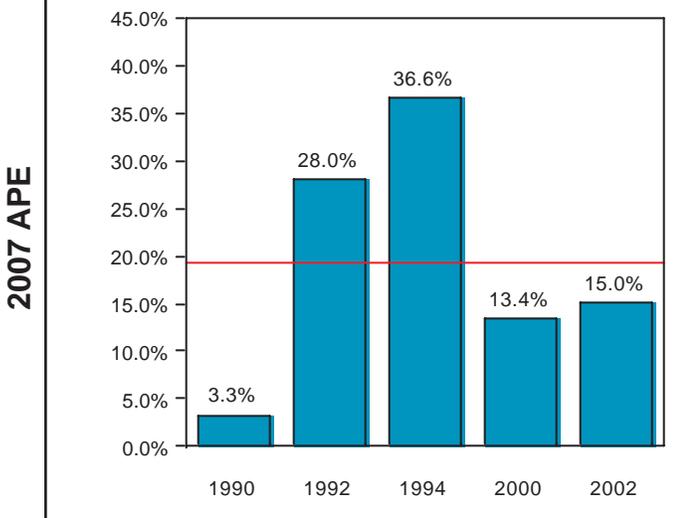
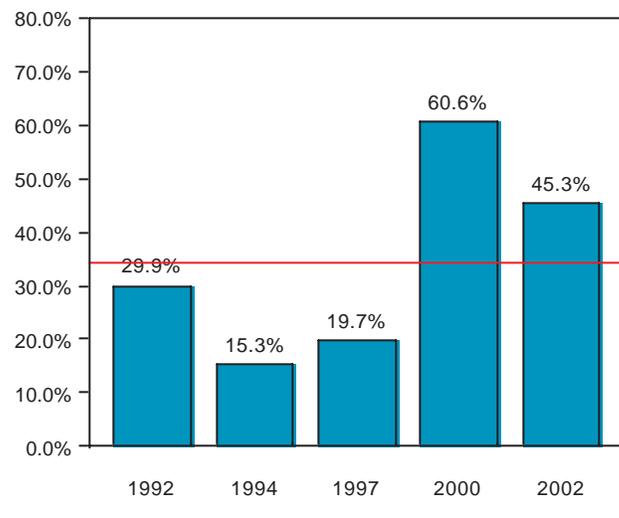


Figure 21.11



Births

Deaths

Figure 21.12

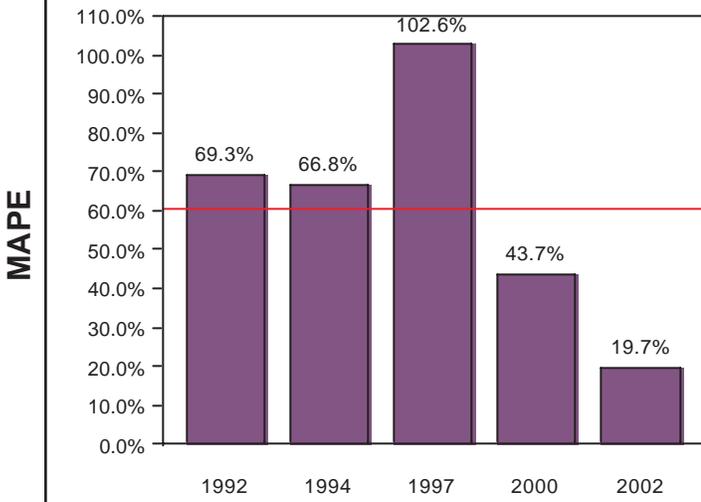


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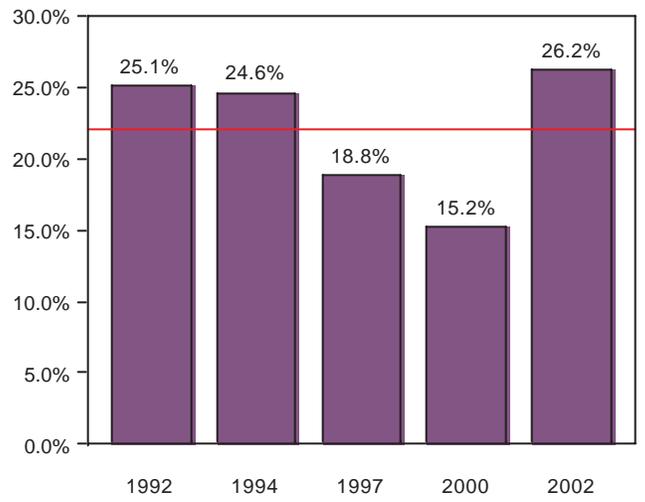


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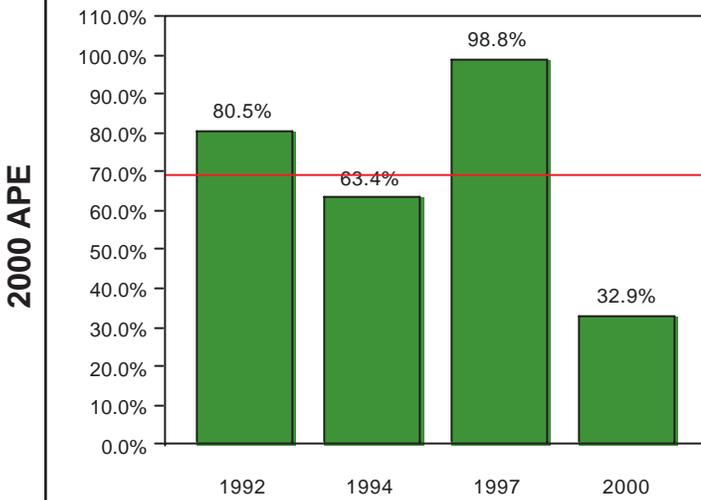


Figure 21.16

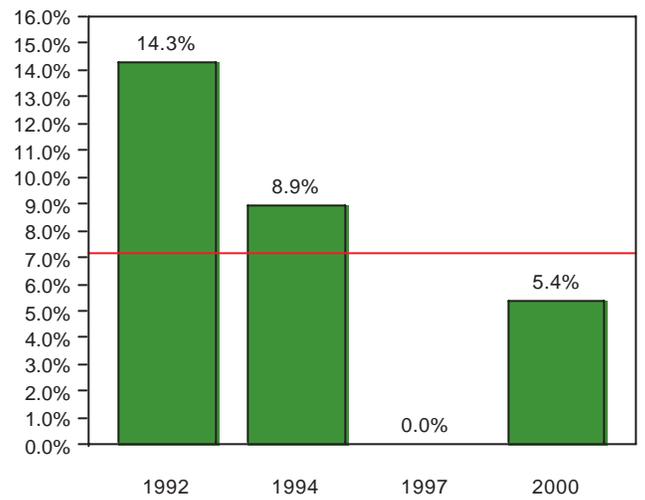


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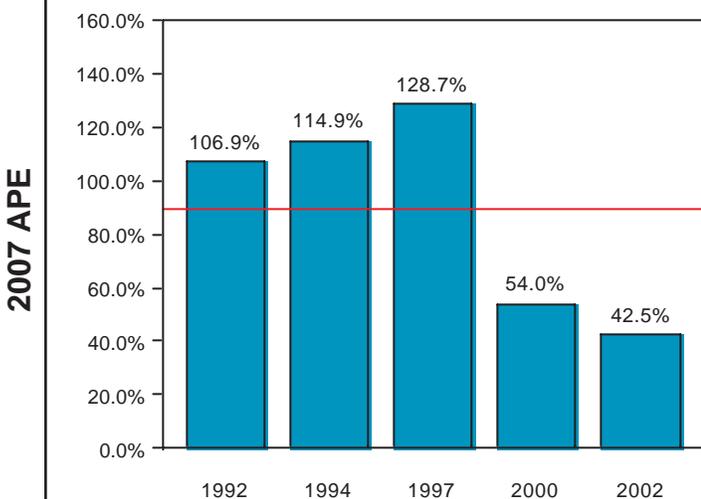
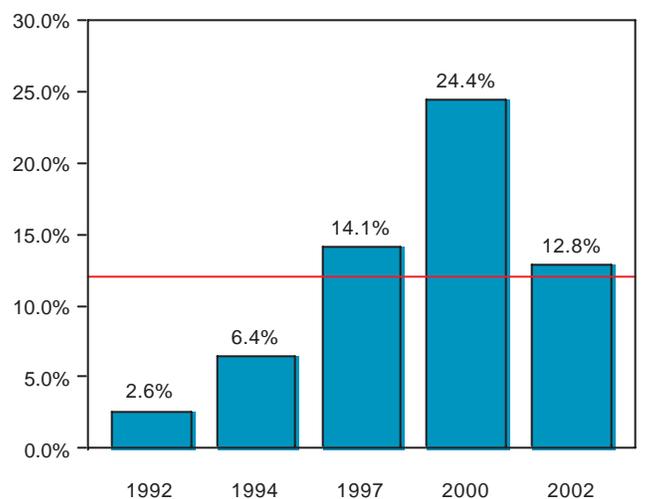


Figure 21.17



Millard County

The 1994 baseline was the most accurate projection of the 2000 population with an absolute percent error of 2.5%. The 1987, 1988, 1997, and 2000 baselines were also close, all within a 6.5% error. The 1984 baseline was the least accurate projection of the 2000 population with an absolute percent error of 31.4%. The 1967 baseline, the oldest projection of the 2000 population, had an absolute percent error of 27.4%. The average absolute percent error of all baselines for the 2000 population projection was 10.9%.

Overall, the 1994 baseline was the most accurate population projection with a mean absolute percent error of 2.4%. The 1984 baseline was the least accurate population projection with a mean absolute percent error of 34.8%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 11.5%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 10.6%, compared to 38.3% and 141.3% for births and net migration, respectively.

Figure 22.1
Population Components

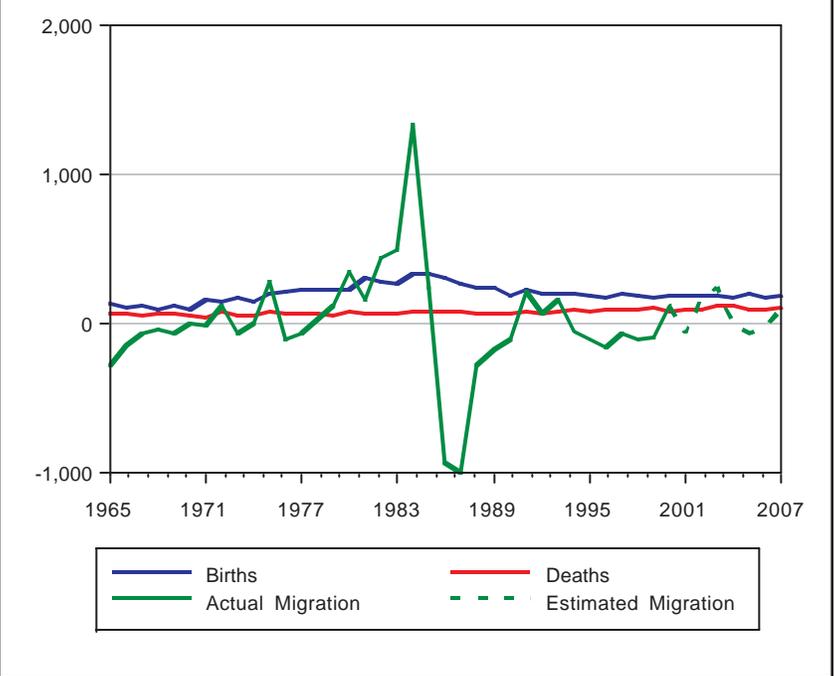
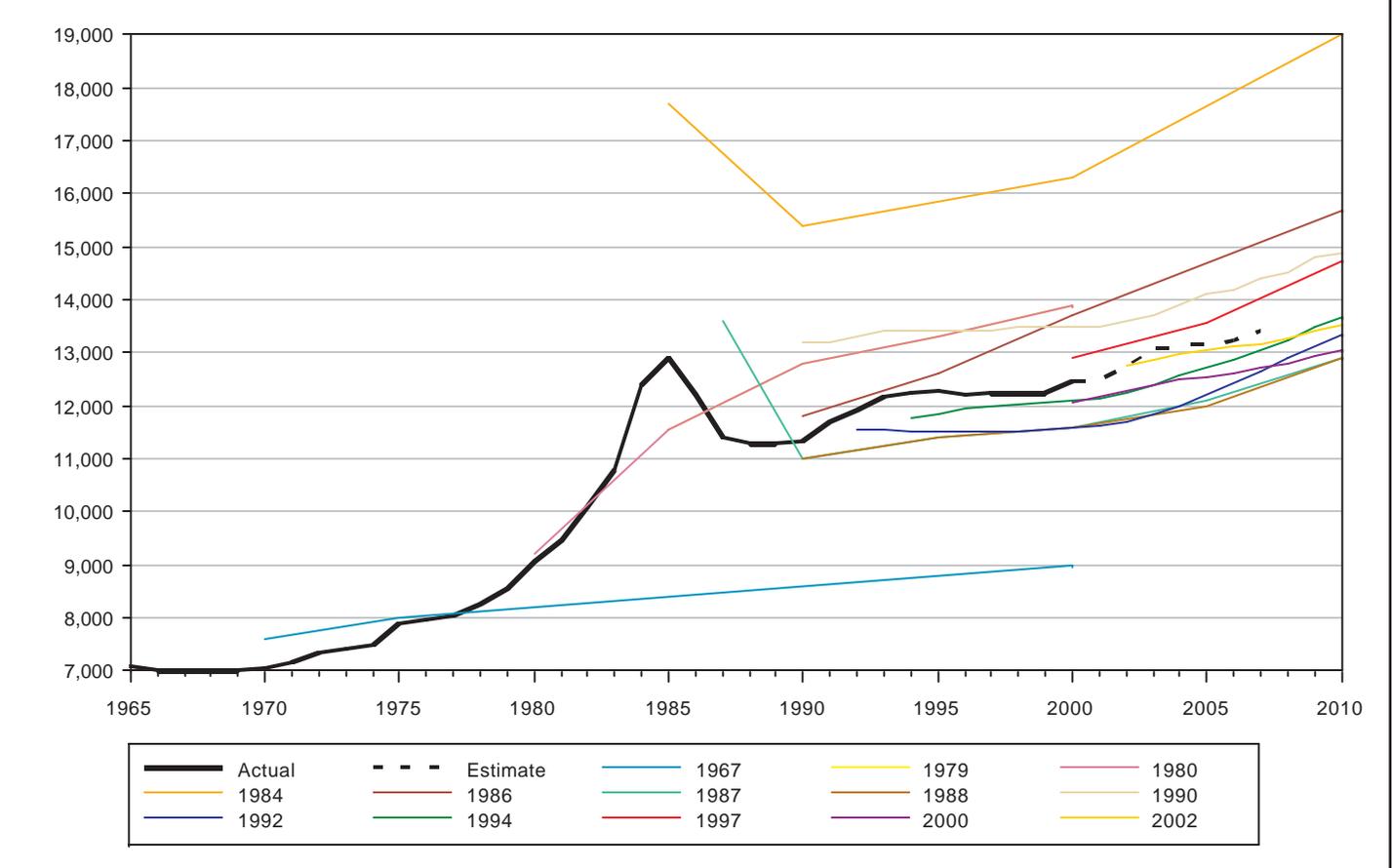
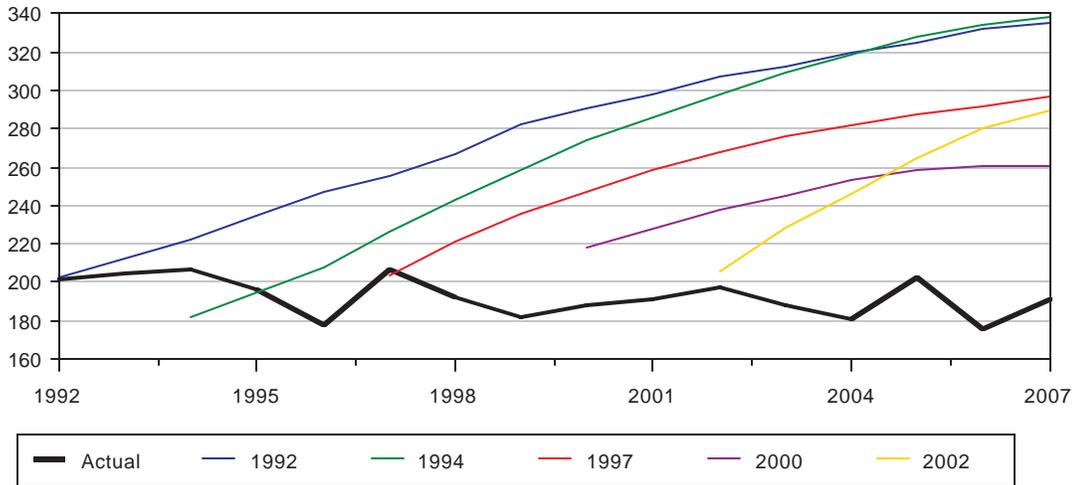


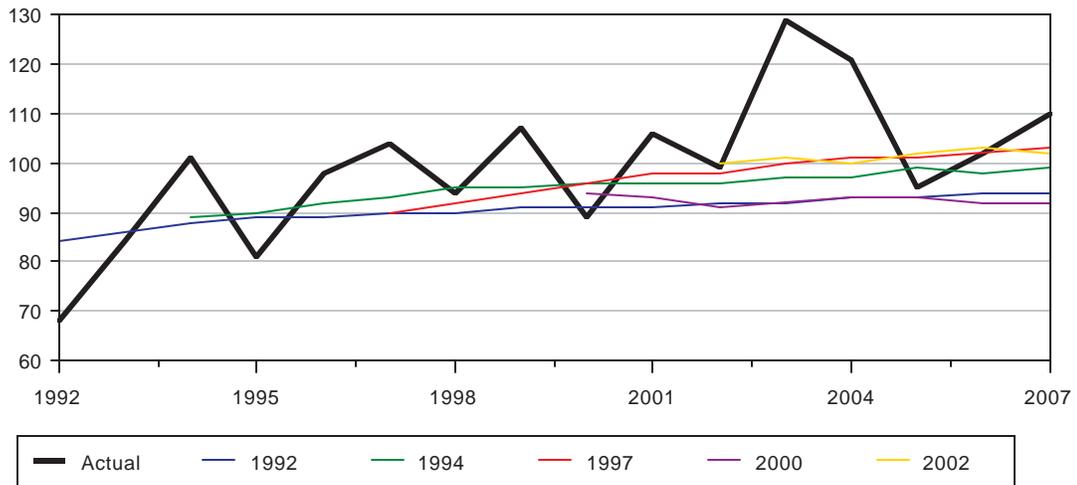
Figure 22.2
Population Projections



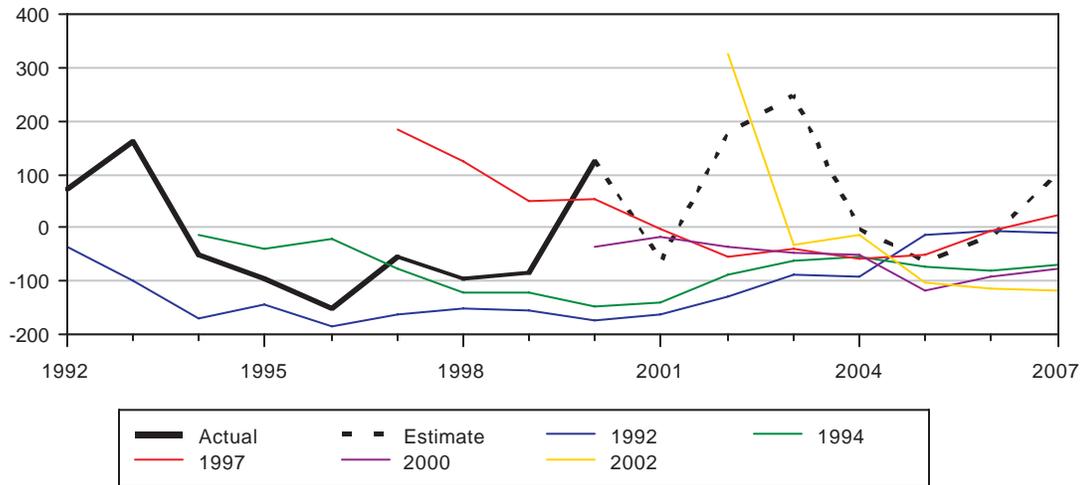
**Figure 22.3
Birth Projections**



**Figure 22.4
Death Projections**



**Figure 22.5
Migration Projections**



Population

Net Migration

Figure 22.6

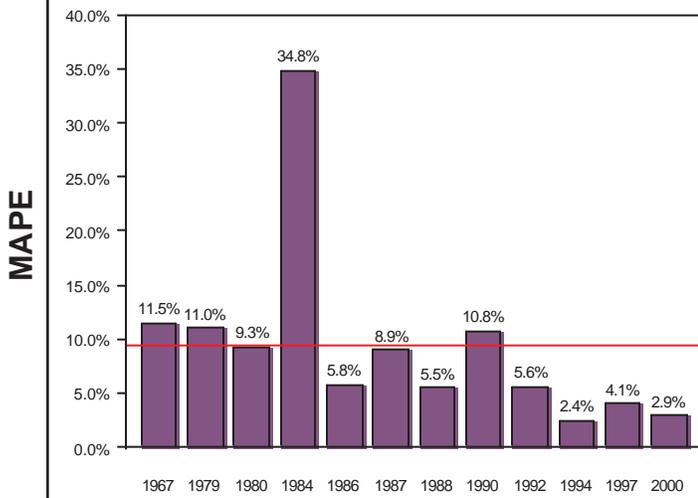


Figure 22.9

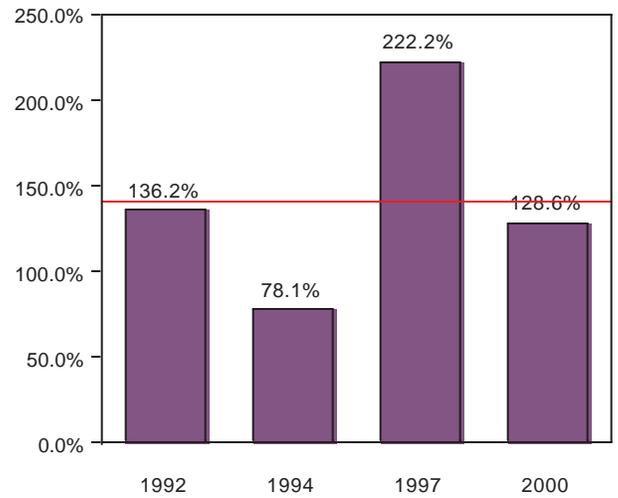


Figure 22.7

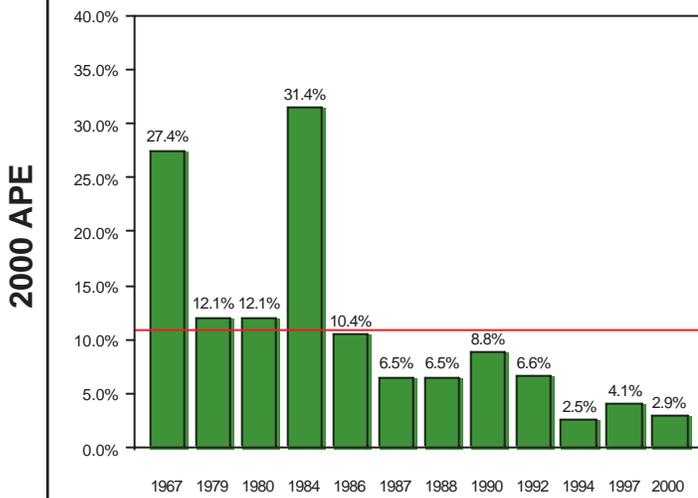


Figure 22.10

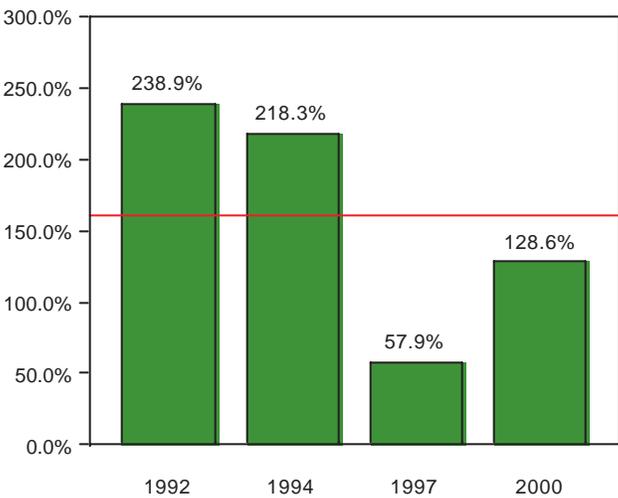


Figure 22.8

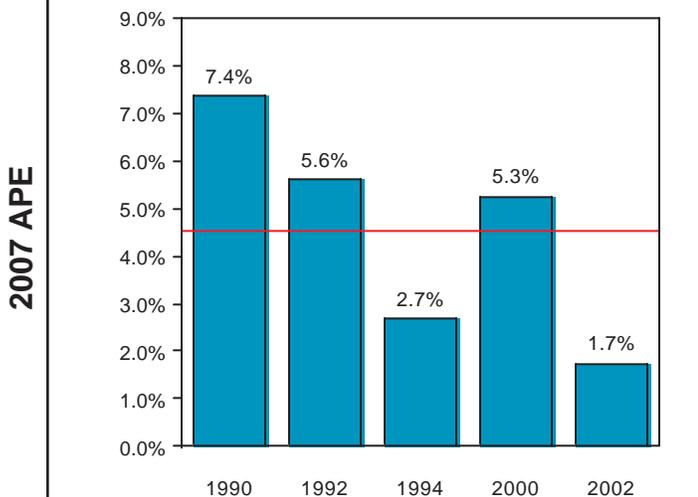
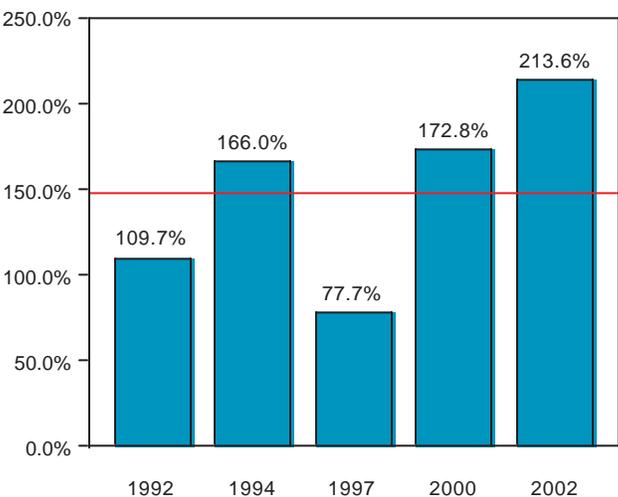
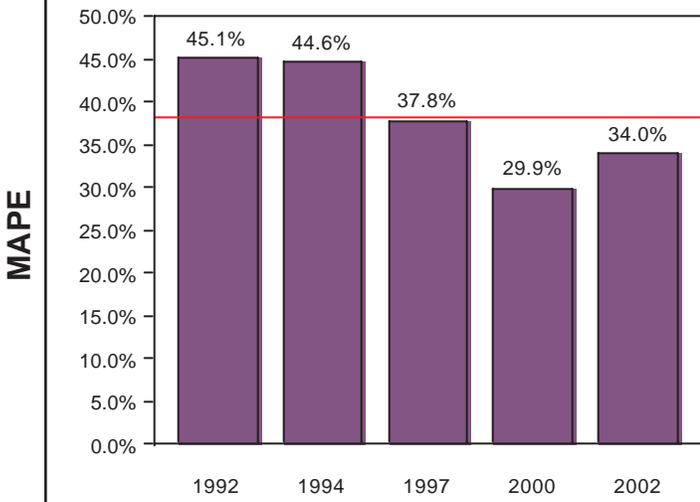


Figure 22.11



Births

Figure 22.12



Deaths

Figure 22.15

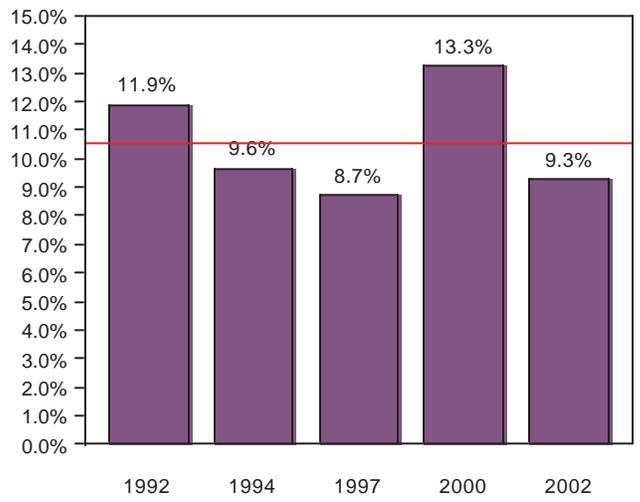


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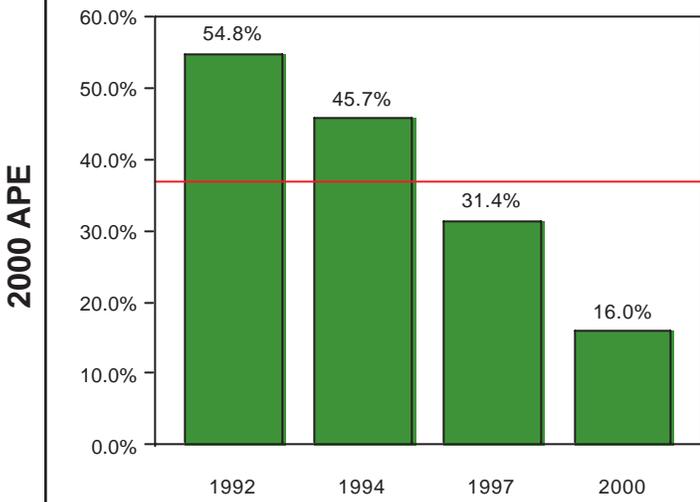


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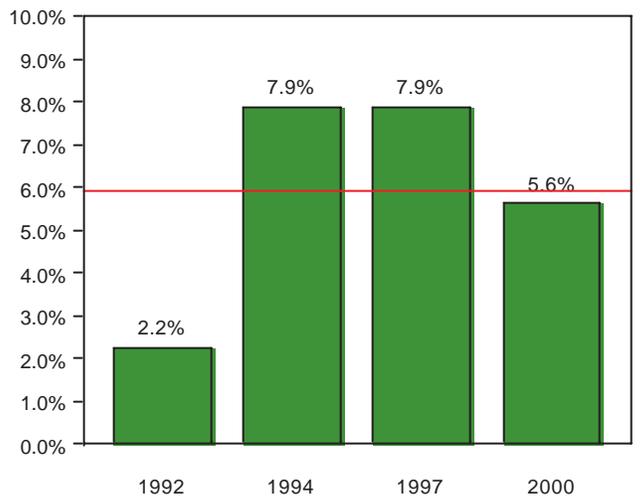


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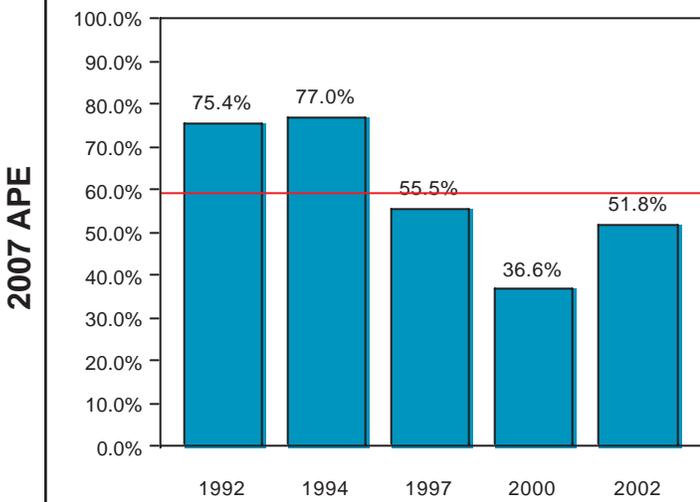
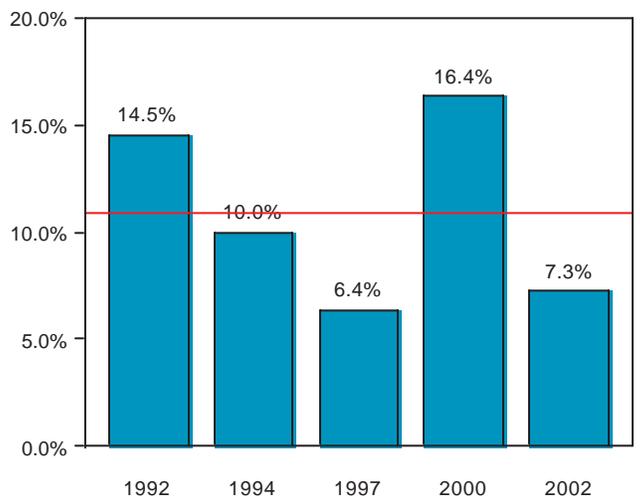


Figure 22.17



Morgan County

The 1986 baseline was the most accurate projection of the 2000 population with an absolute percent error of 0.3%. The 1987, 1988, 1997, and 2000 baselines were also close, all within a 2.5% error. The 1984 baseline was the least accurate projection of the 2000 population with an absolute percent error of 125.8%. The 1967 baseline, the oldest projection of the 2000 population, had an absolute percent error of 29.9%. The average absolute percent error of all baselines for the 2000 population projection was 25.1%.

Overall, the 1997 baseline was the most accurate population projection with a mean absolute percent error of 2.0%. The 1984 baseline was the least accurate population projection with a mean absolute percent error of 68.3%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 11.4%.

Of the components of population change, projections for births were most accurate with an overall mean absolute percent error for all baselines of 30.2%, compared to 37.9% and 275.0% for deaths and net migration, respectively.

Figure 23.1
Population Components

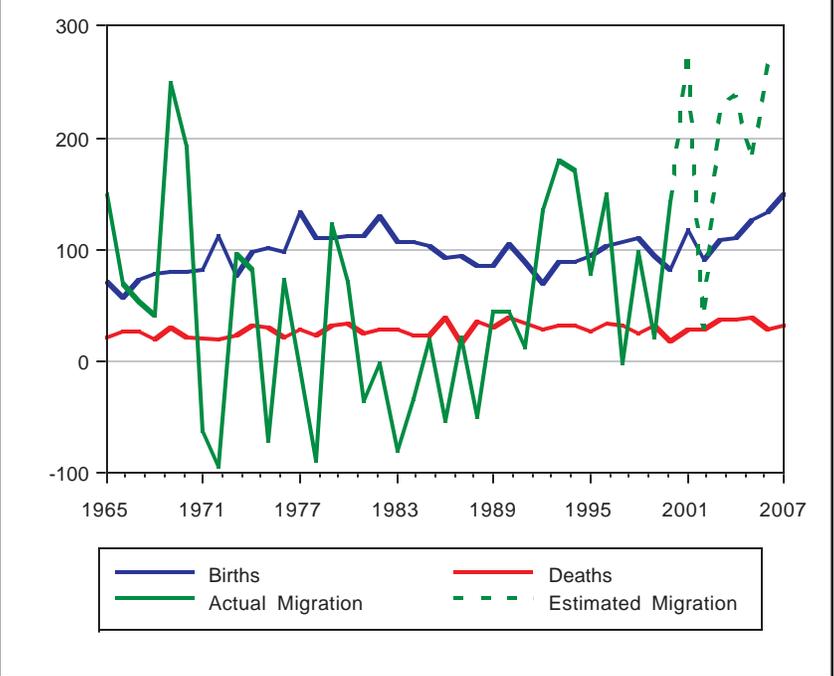


Figure 23.2
Population Projections

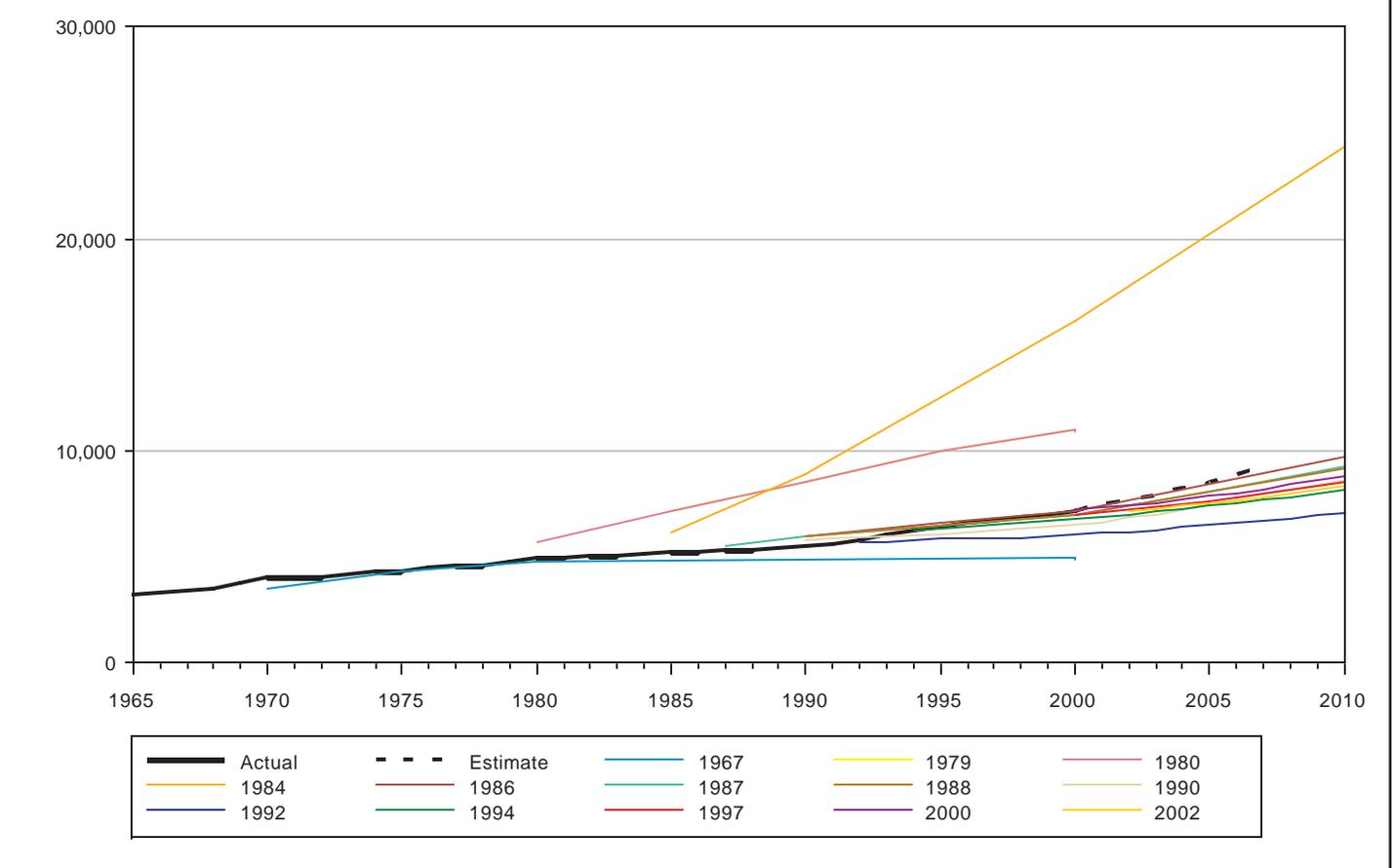


Figure 23.3
Birth Projections

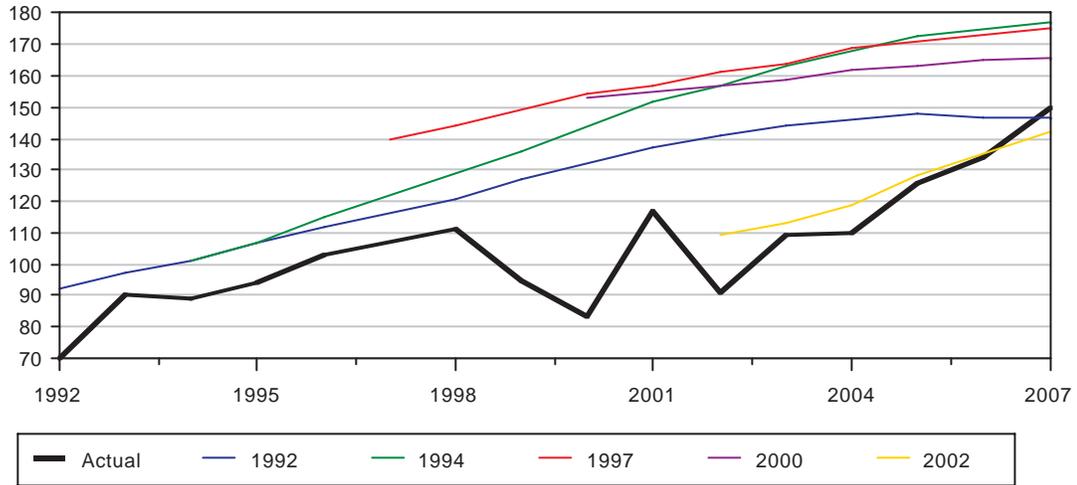


Figure 23.4
Death Projections

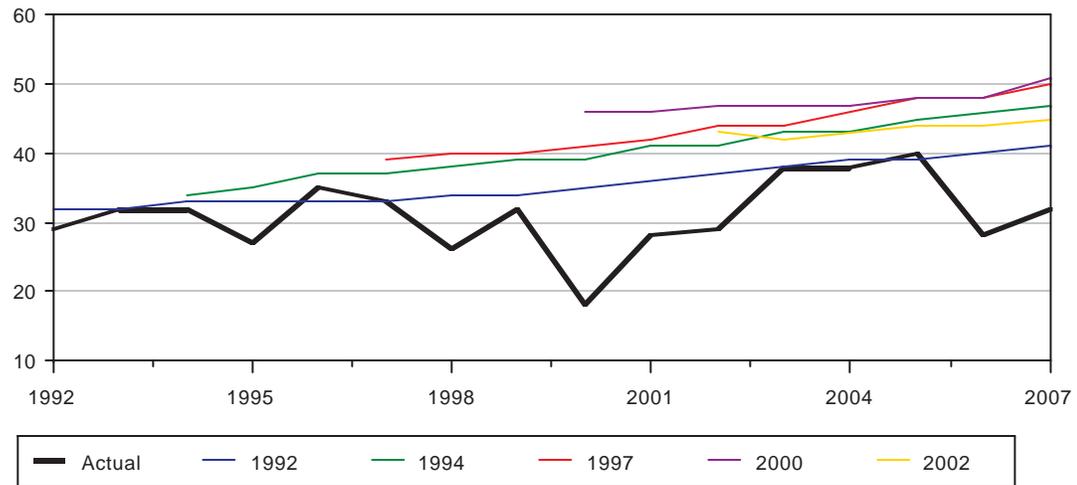
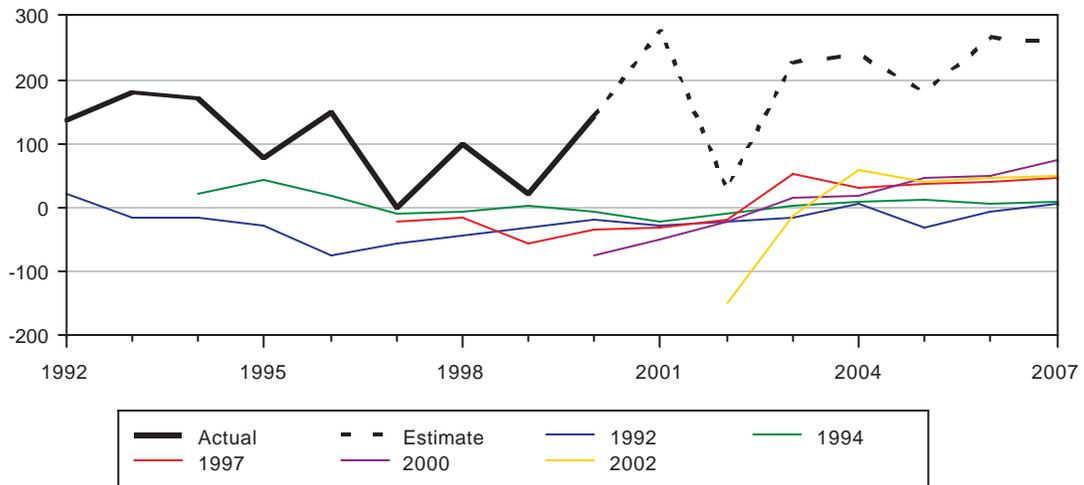


Figure 23.5
Migration Projections



Population

Net Migration

Figure 23.6

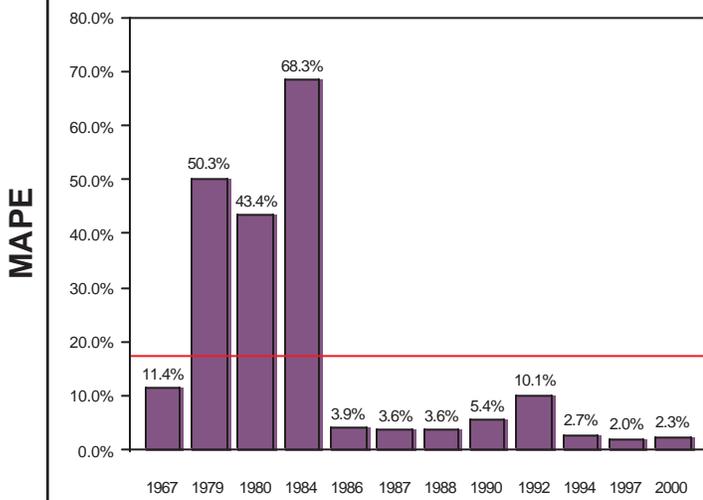


Figure 23.9

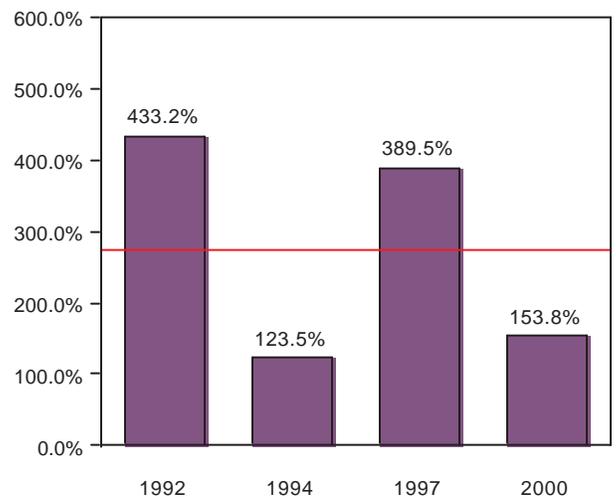


Figure 23.7

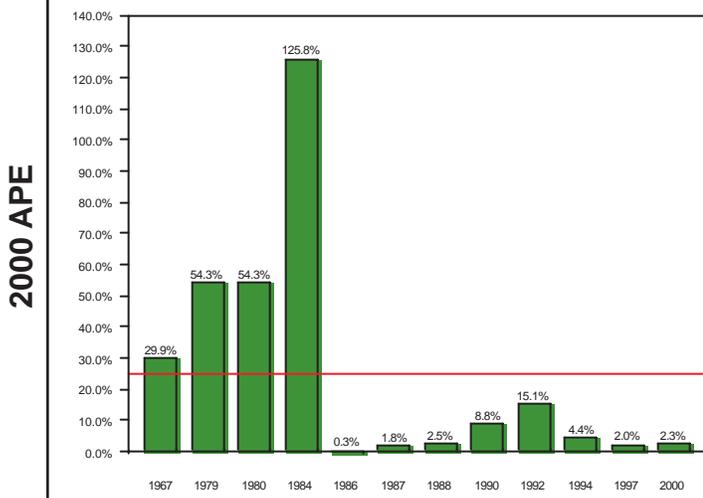


Figure 23.10

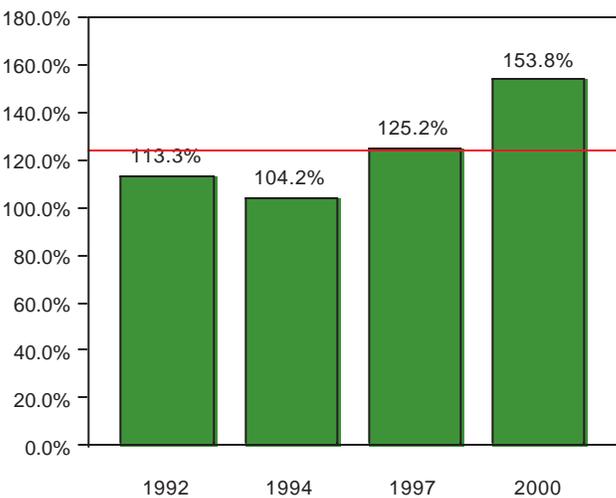


Figure 23.8

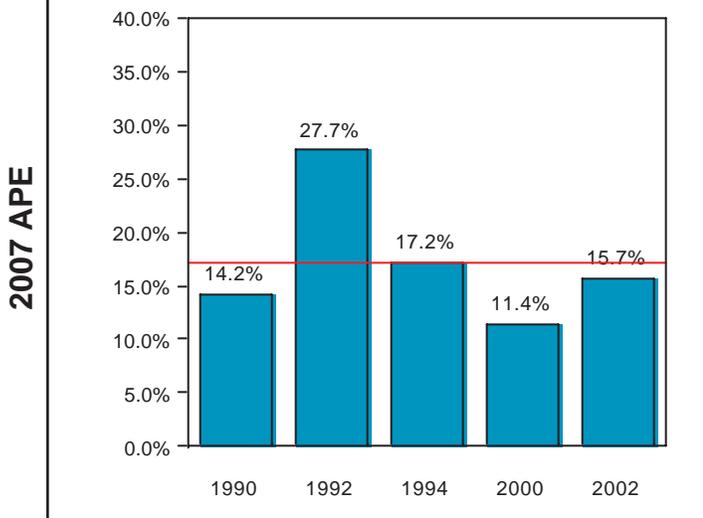
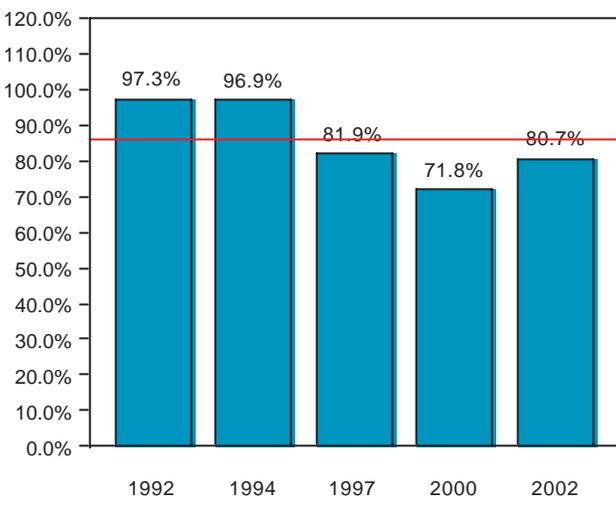


Figure 23.11



Births

Deaths

Figure 23.12

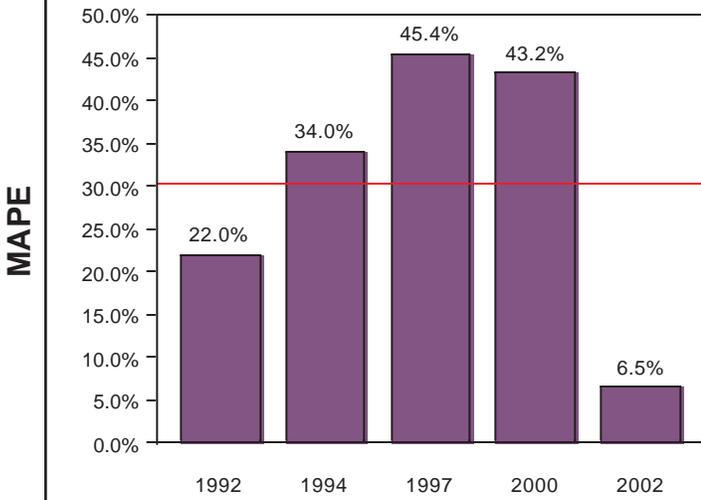


Figure 23.15

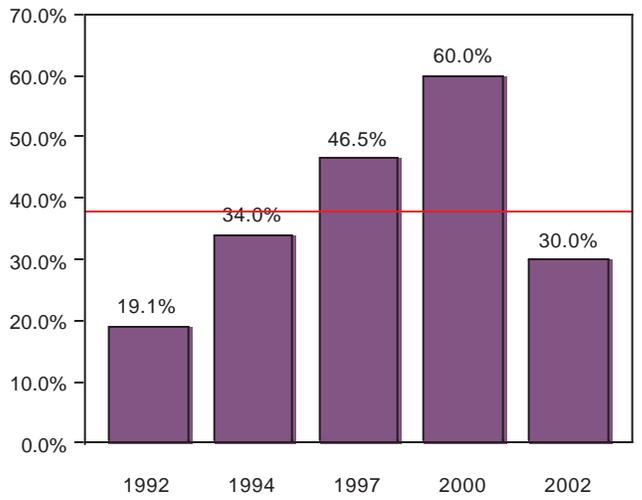


Figure 23.13

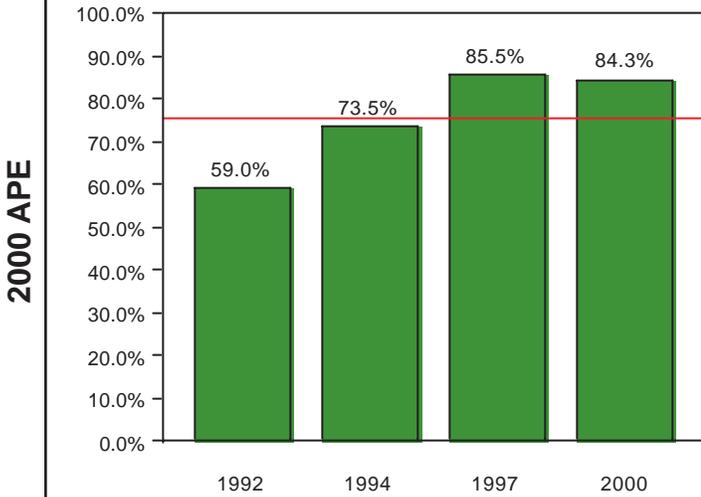


Figure 23.16

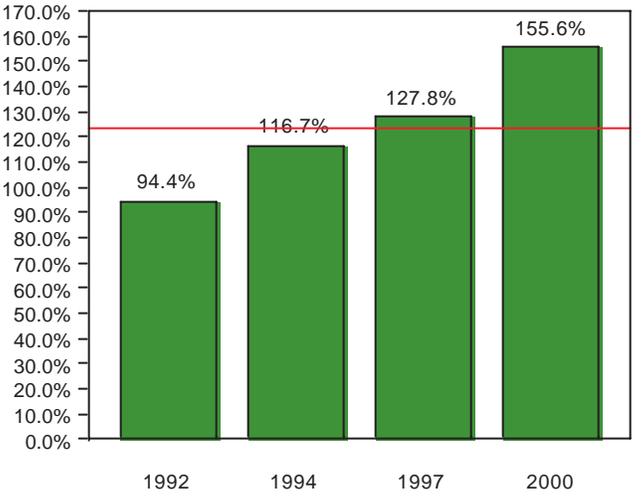


Figure 23.14

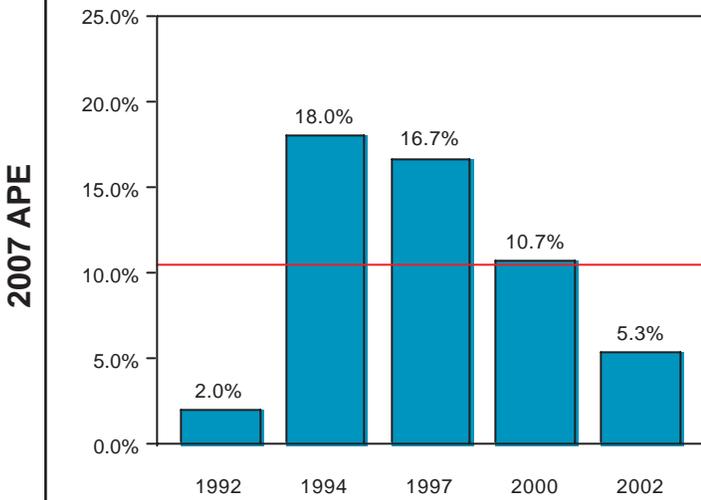
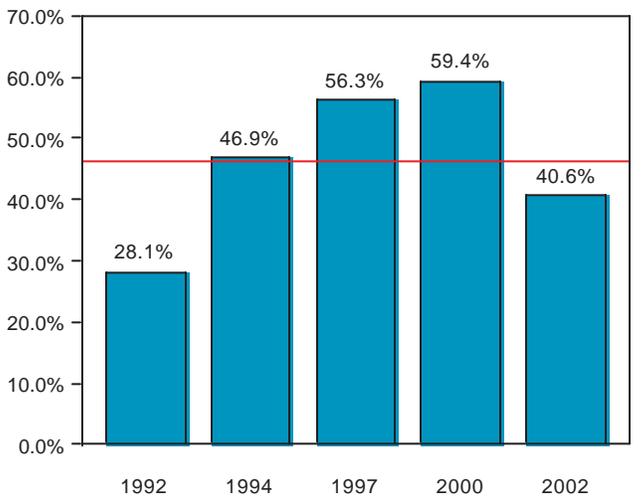


Figure 23.17



Piute County

The 1964 baseline, the oldest projection, was the most accurate projection of the 2000 population with an absolute percent error of 4.5%. The 1992 and 1994 baselines were also close, both within an 8.2% error. The 1979 and 1980 baselines were the least accurate projections of the 2000 population with absolute percent errors of 70.7%. The average absolute percent error of all baselines for the 2000 population projection was 24.4%.

Overall, the 1992 baseline was the most accurate population projection with a mean absolute percent error of 5.8%. The 1979 baseline was the least accurate population projection with a mean absolute percent error of 66.4%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 10.5%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 22.3%, compared to 54.6% and 207.8% for births and net migration, respectively.

Figure 24.1
Population Components

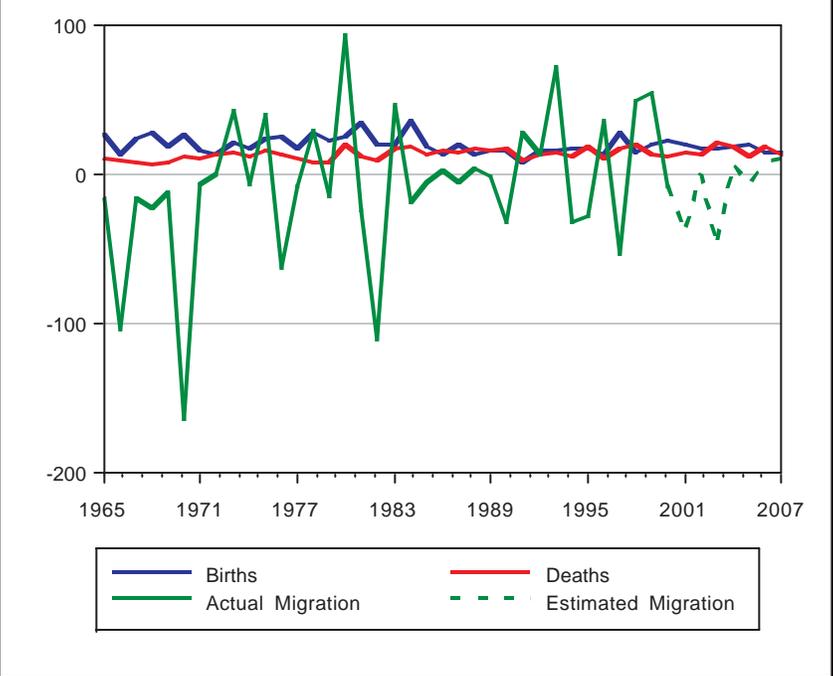
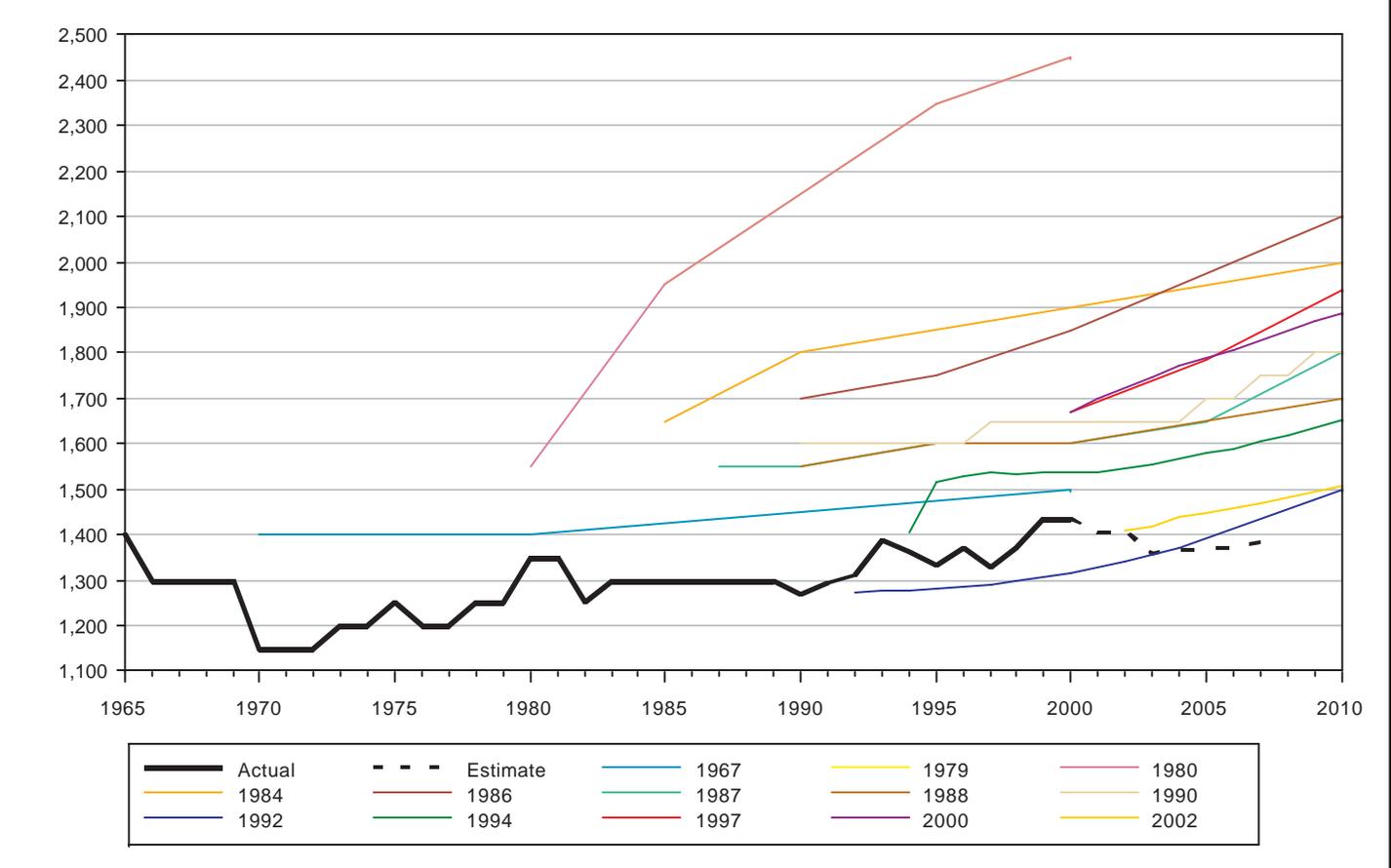
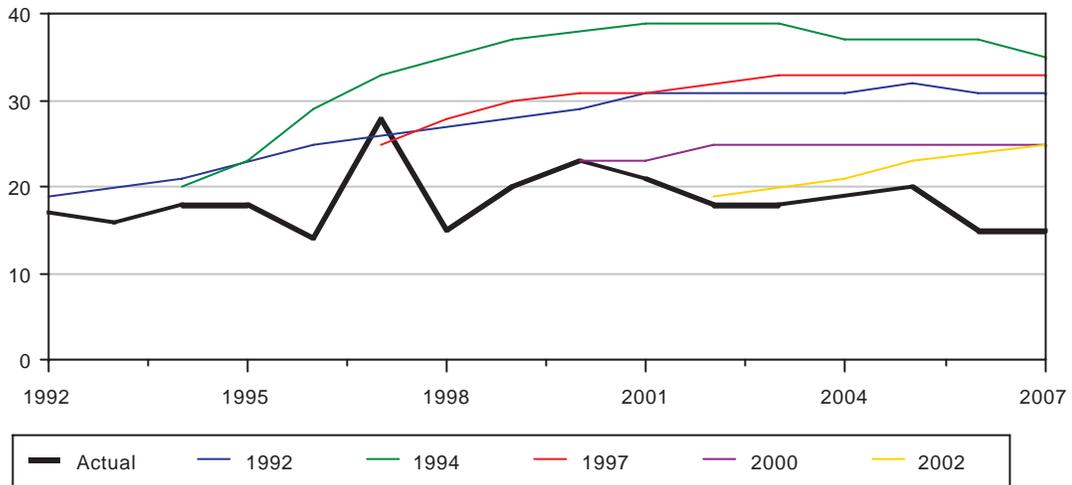


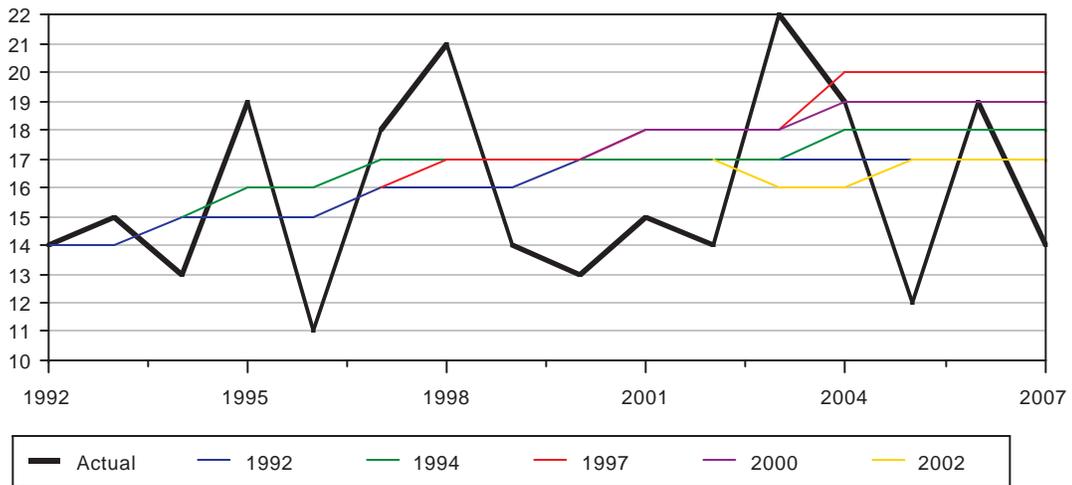
Figure 24.2
Population Projections



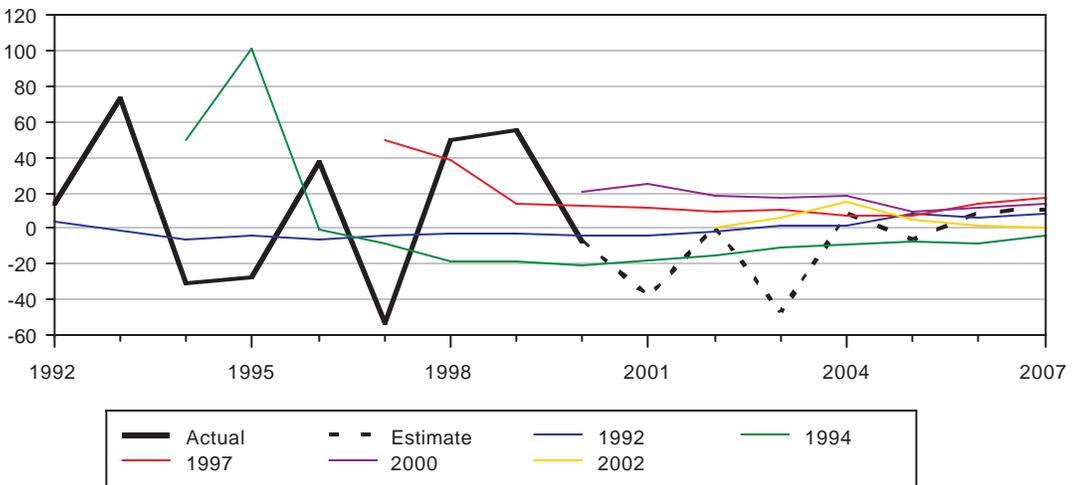
**Figure 24.3
Birth Projections**



**Figure 24.4
Death Projections**



**Figure 24.5
Migration Projections**



Population

Net Migration

Figure 24.6

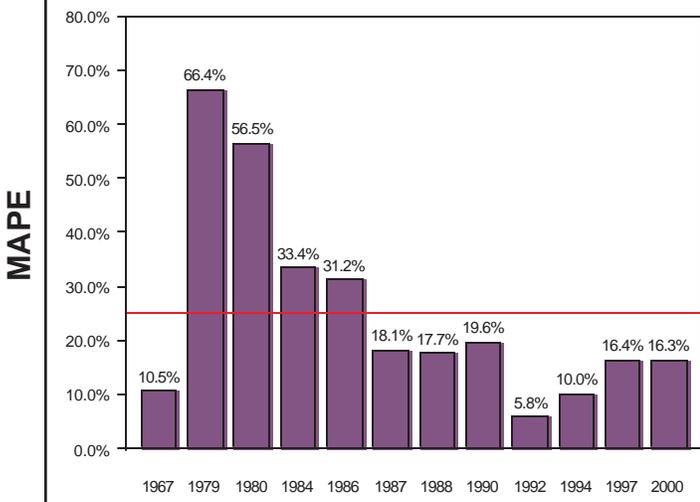


Figure 24.9

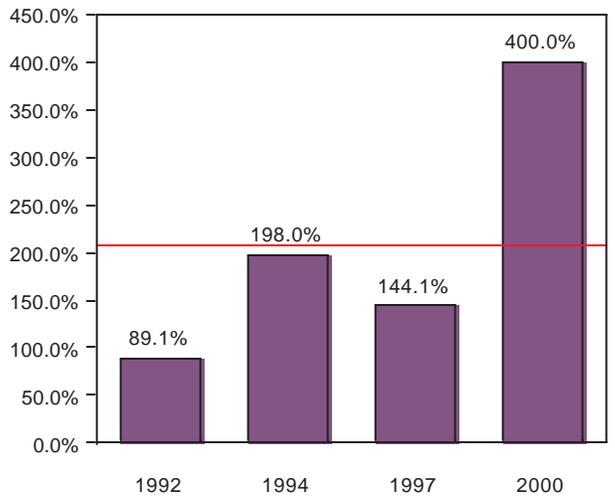


Figure 24.7

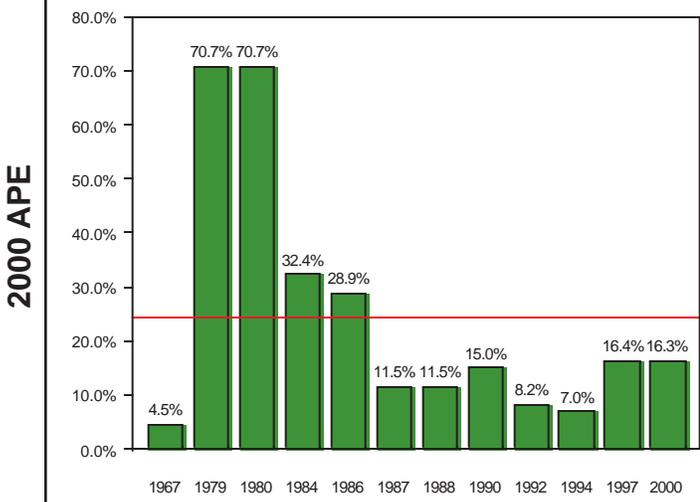


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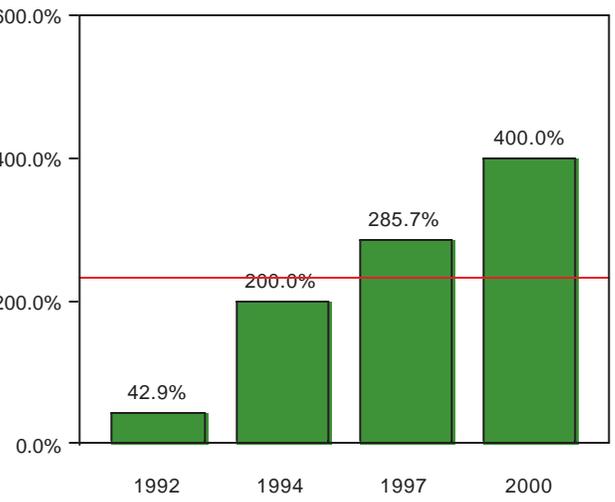


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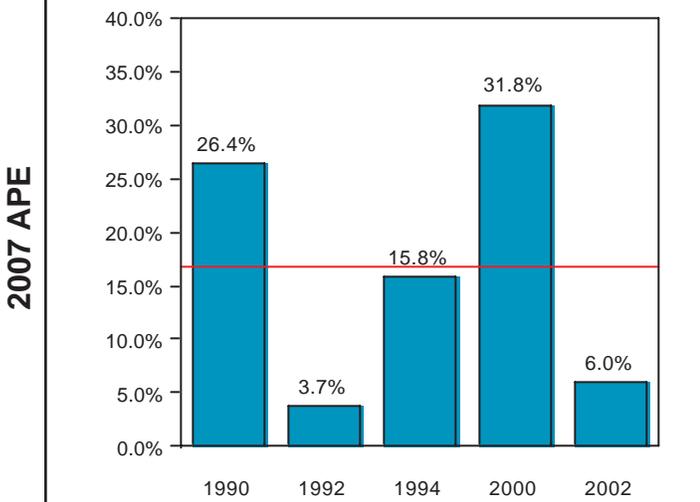
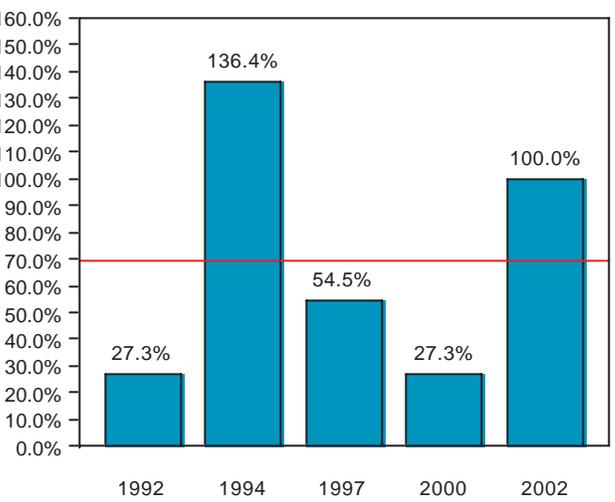
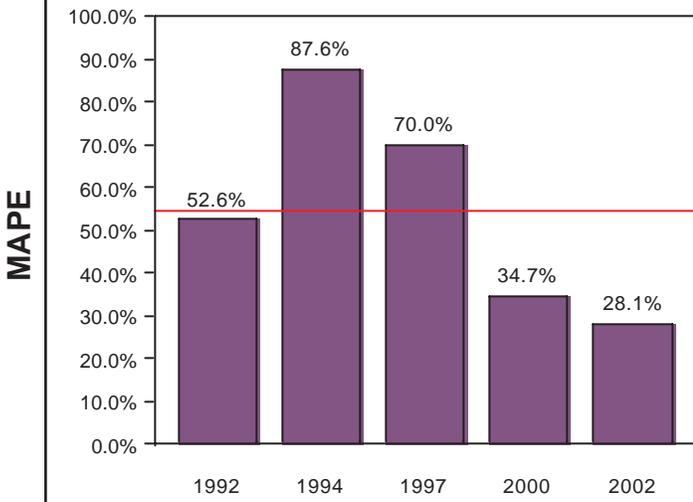


Figure 24.11



Births

Figure 24.12



Deaths

Figure 24.15

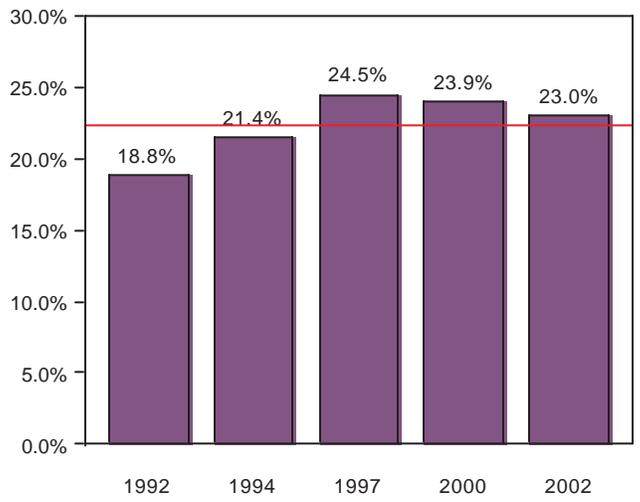


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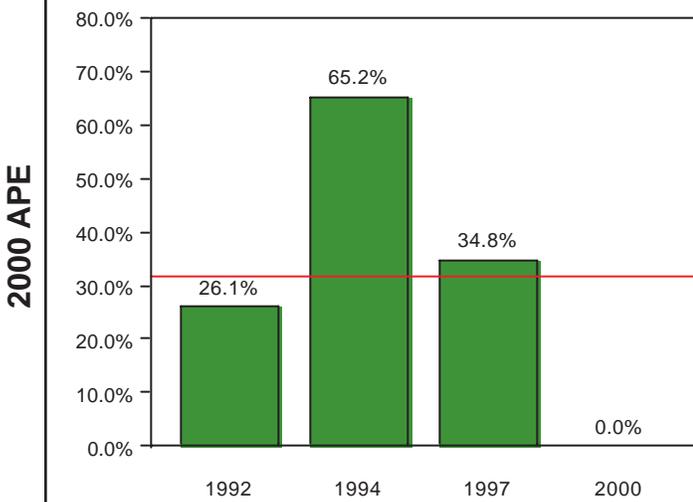


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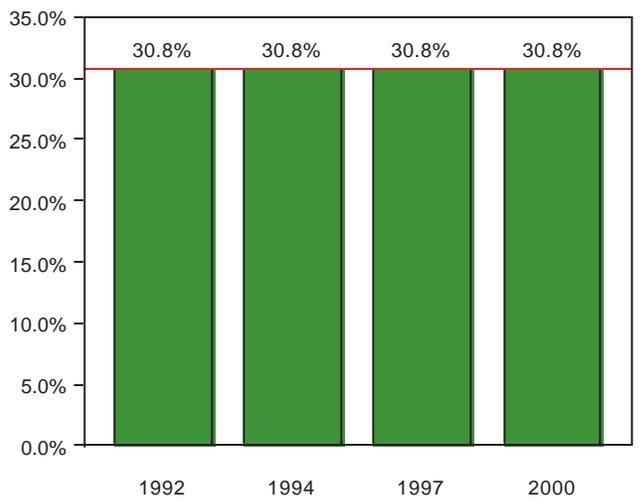


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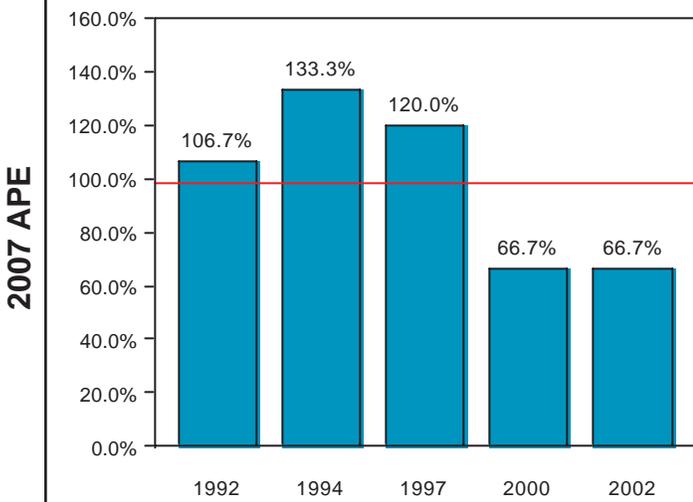
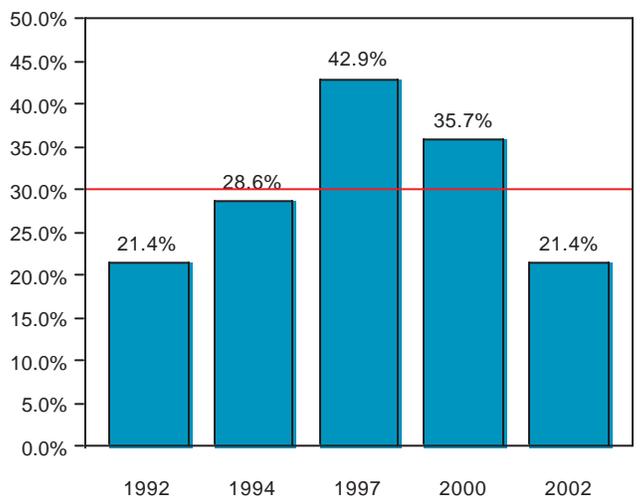


Figure 24.17



Rich County

The 1997 baseline was the most accurate projection of the 2000 population with an absolute percent error of 4.2%. The 1992, 1994, and 2000 baselines were also close, all within a 7.0% error. The 1984 and 1986 baselines were the least accurate projections of the 2000 population, both with an absolute percent error of 35.1%. The 1967 baseline, the oldest projection of the 2000 population, had an absolute percent error of 13.3%. The average absolute percent error of all baselines for the 2000 population projection was 19.1%.

Overall, the 1997 baseline was the most accurate population projection with a mean absolute percent error of 4.2%. The 1986 baseline was the least accurate population projection with a mean absolute percent error of 38.6%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 11.3%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 52.4%, compared to 63.3% and 81.4% for deaths and net migration, respectively.

Figure 25.1
Population Components

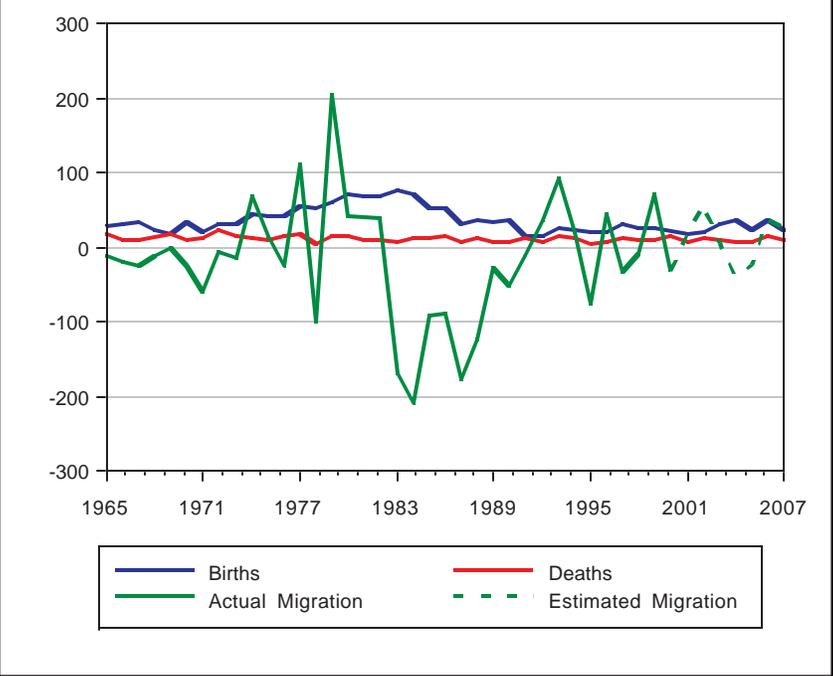


Figure 25.2
Population Projections

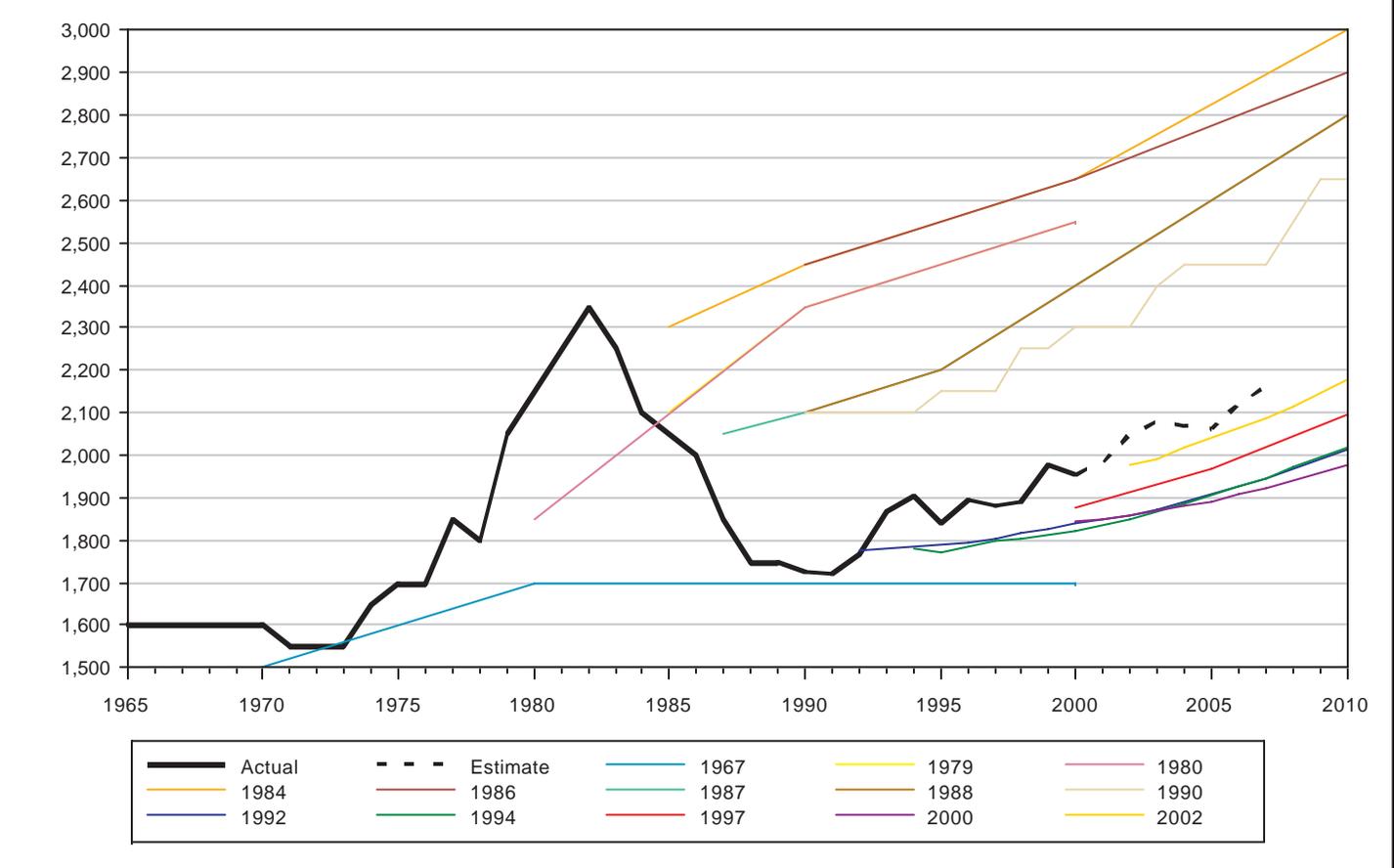


Figure 25.3
Birth Projections

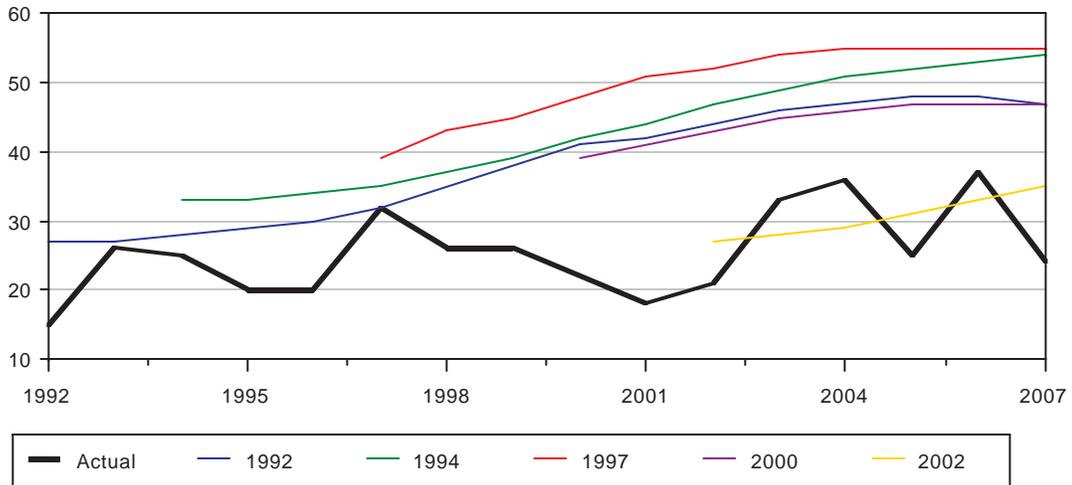


Figure 25.4
Death Projections

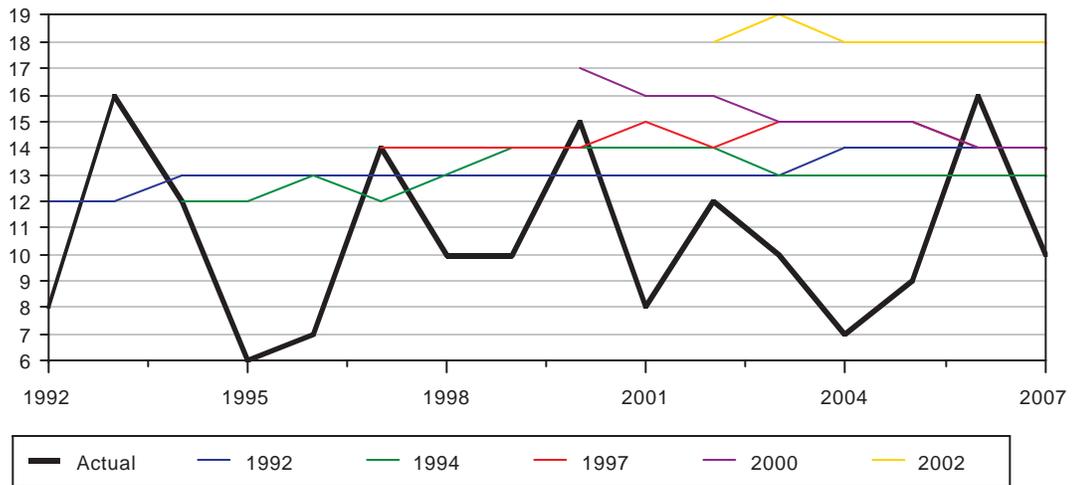
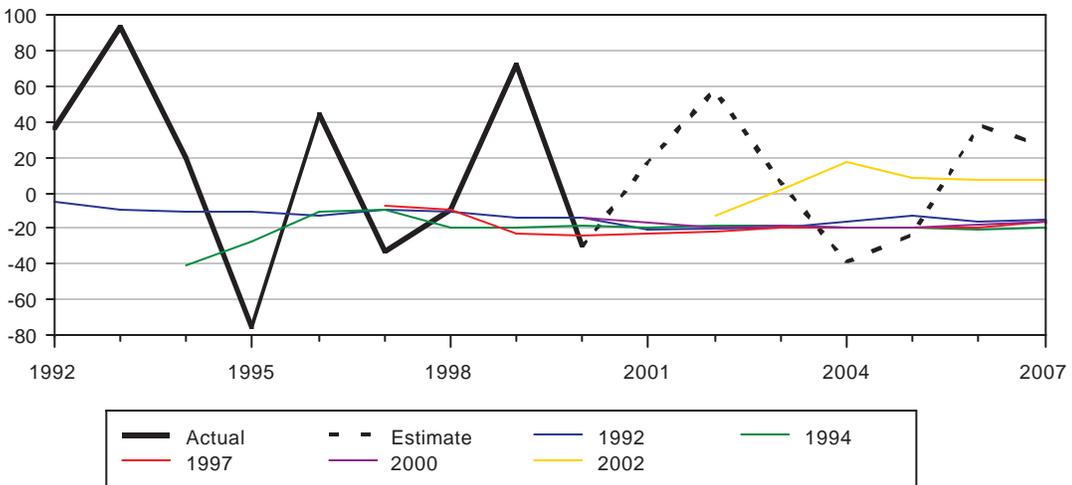


Figure 25.5
Migration Projections



Population

Net Migration

Figure 25.6

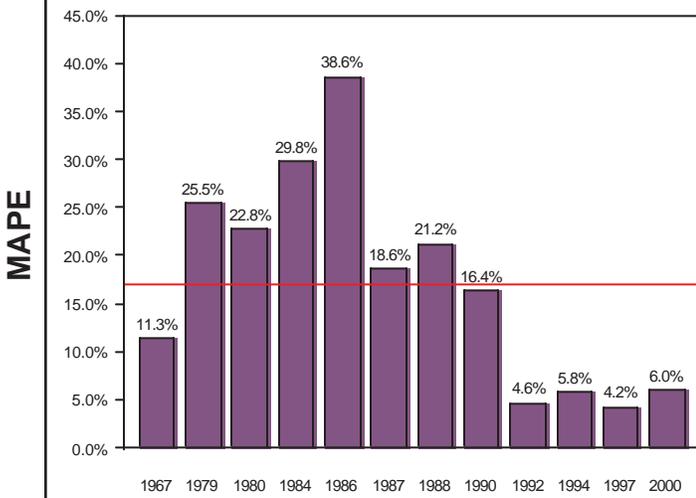


Figure 25.9

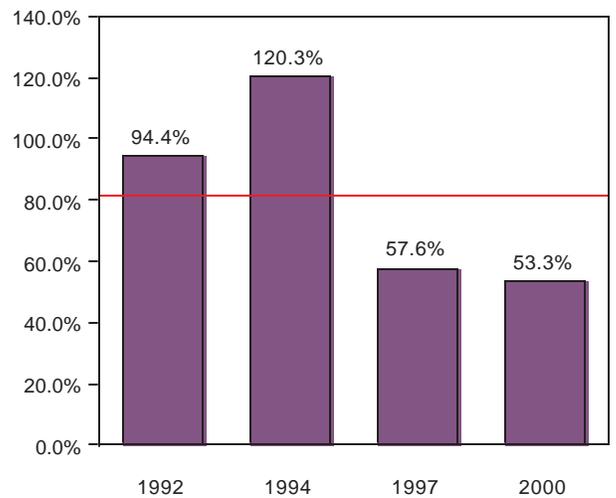


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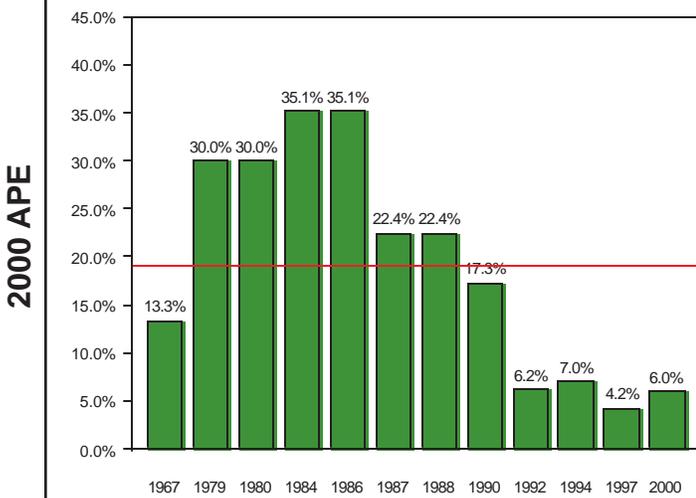


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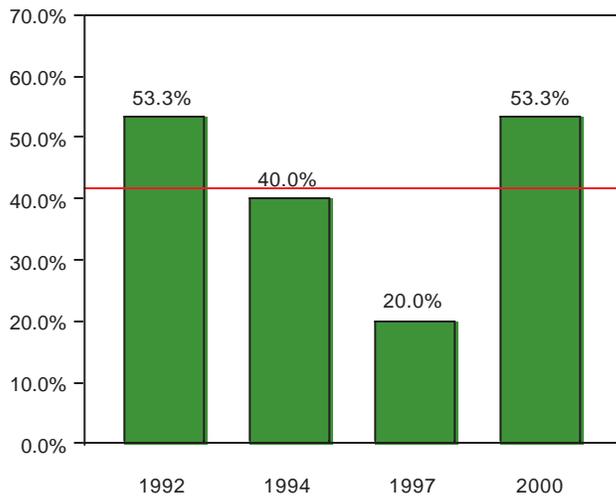


Figure 25.8

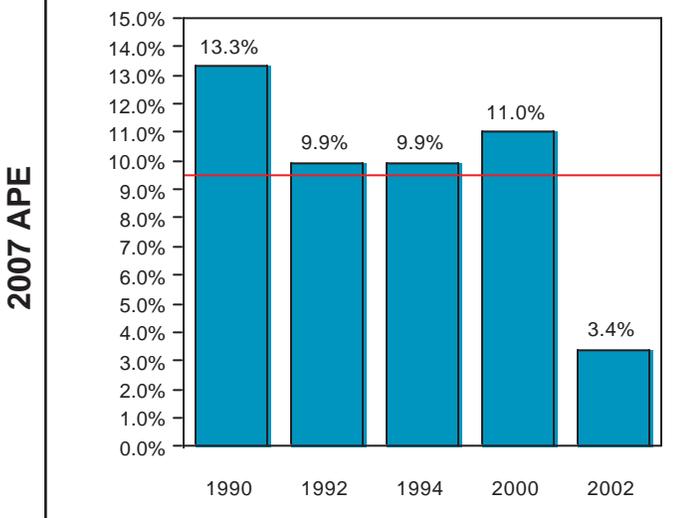
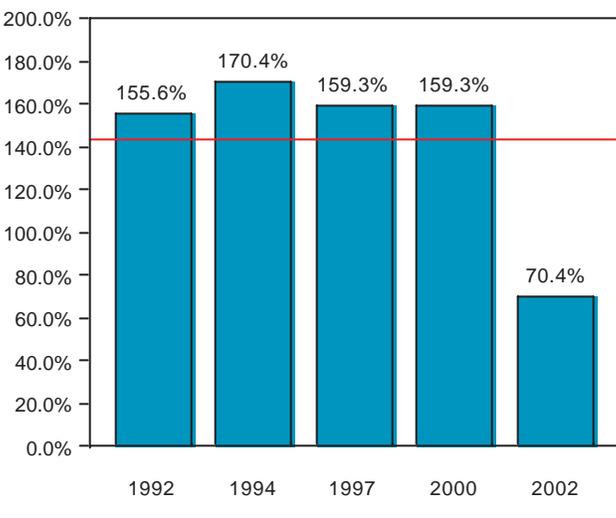
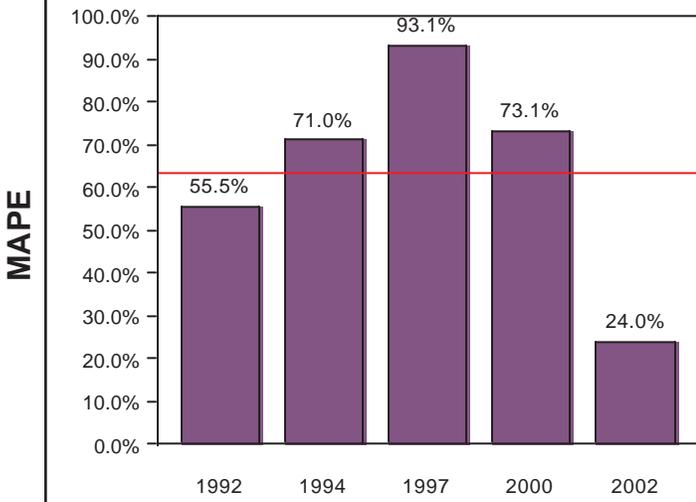


Figure 25.11



Births

Figure 25.12



Deaths

Figure 25.15

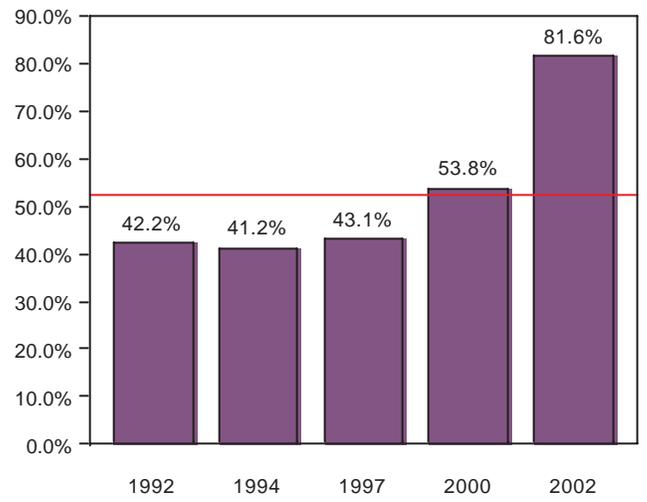


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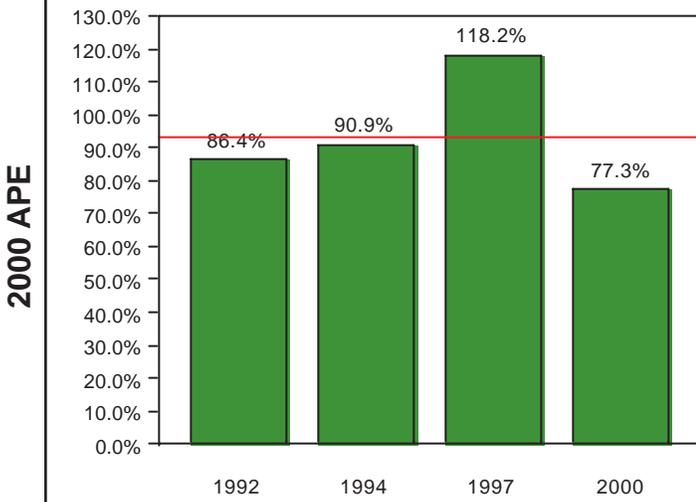


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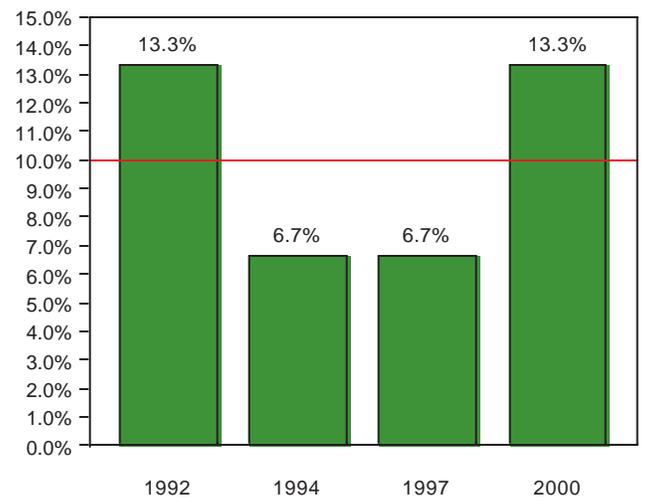


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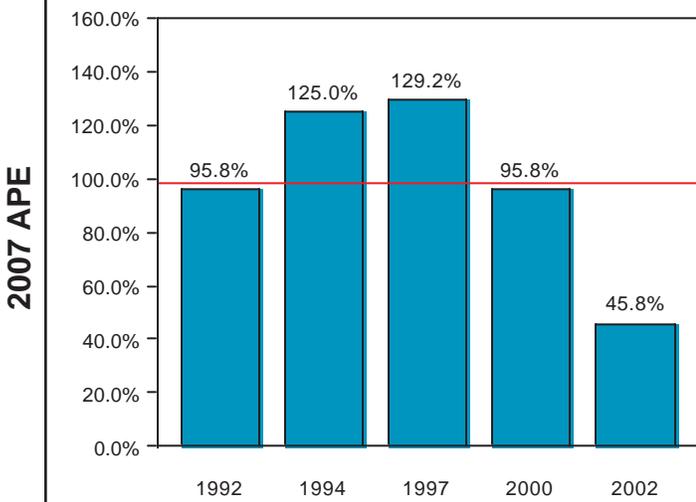
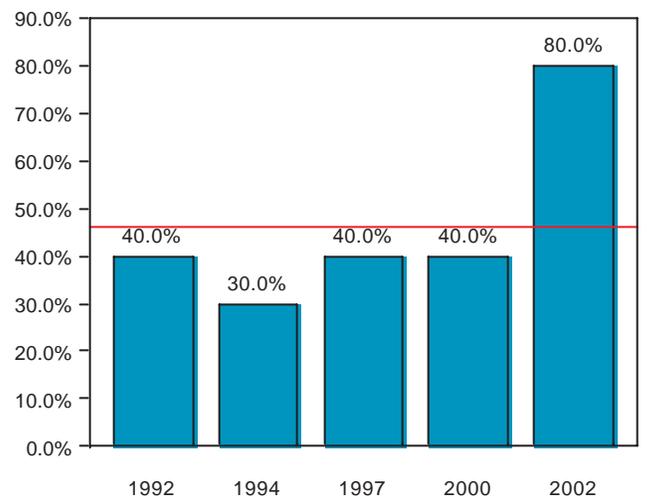


Figure 25.17



Salt Lake County

The 1979 and 1980 baselines were the most accurate projections of the 2000 population with absolute percent errors of 0.2%. The 1984, 1986, 1987, and 1994 baselines were also close, all within a 2.5% error. The 1990 baseline was the least accurate projection of the 2000 population with an absolute percent error of 11.0%. The 1967 baseline, the oldest projection of the 2000 population, had an absolute percent error of 8.7%. The average absolute percent error of all baselines for the 2000 population projection was 3.8%.

Overall, the 1979 baseline was the most accurate population projection with a mean absolute percent error of 1.9%. The 1967 baseline, the oldest projection, was the least accurate population projection with a mean absolute percent error of 9.4%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 3.6%, compared to 5.0% and 981.2% for births and net migration, respectively.

Figure 26.1
Population Components

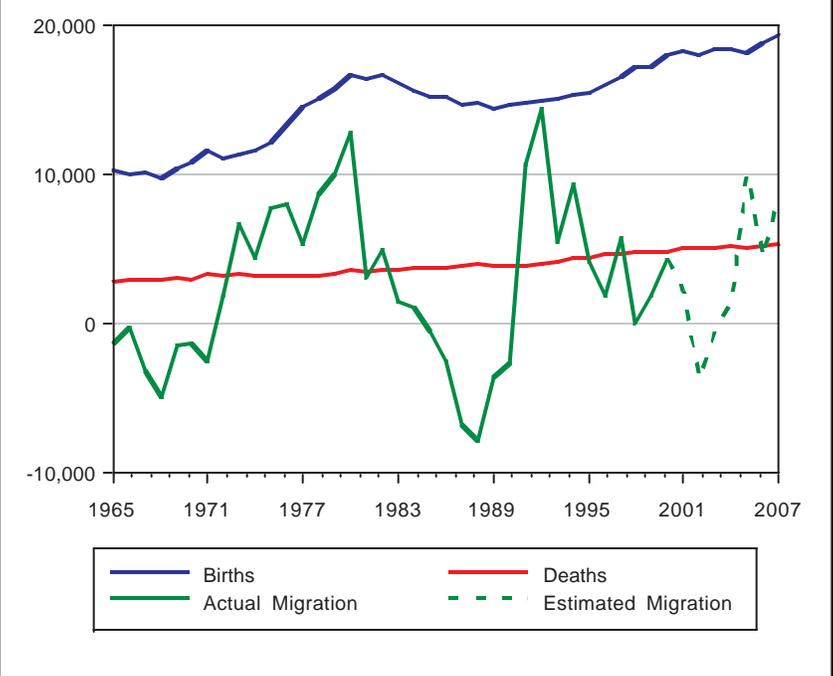
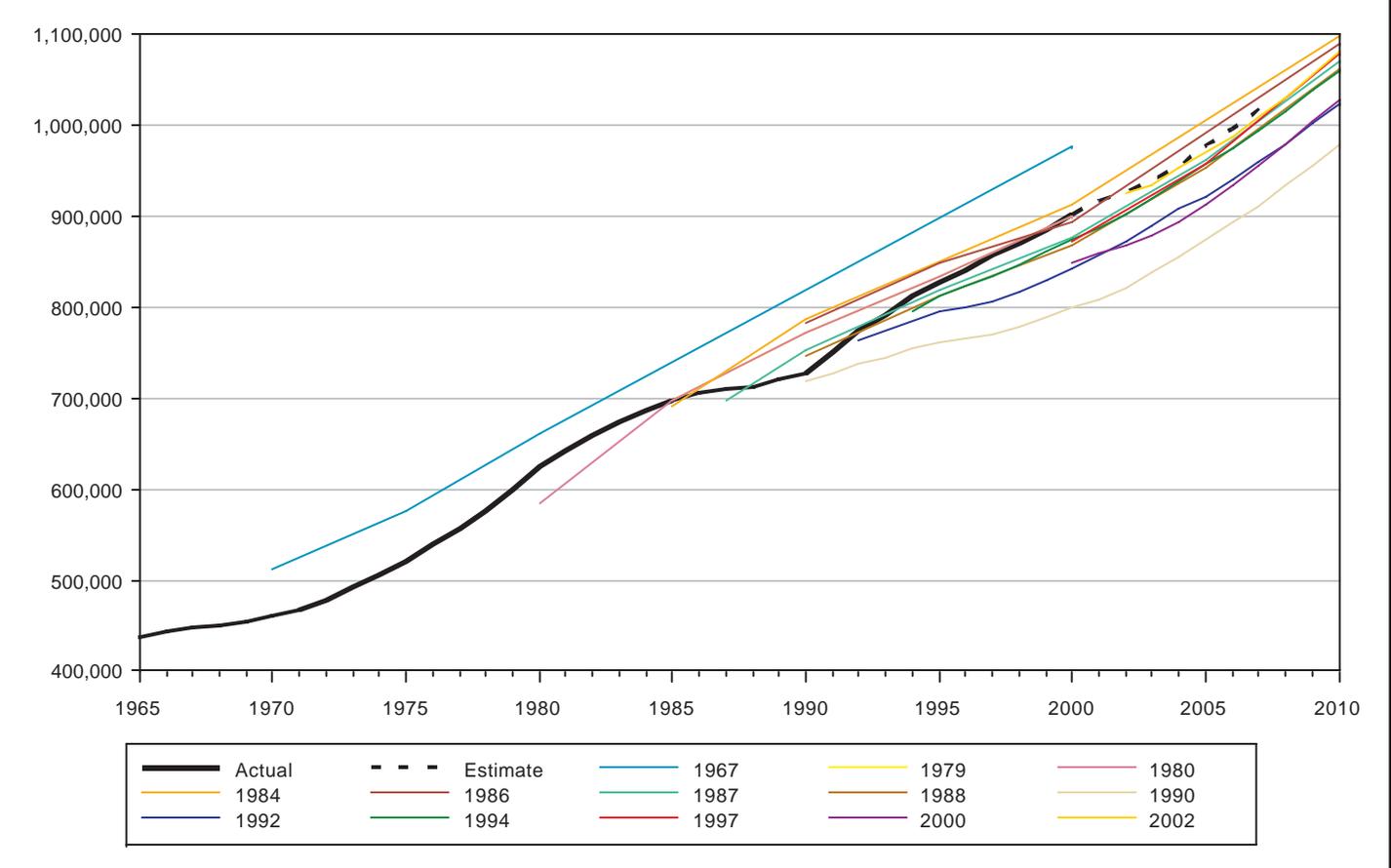
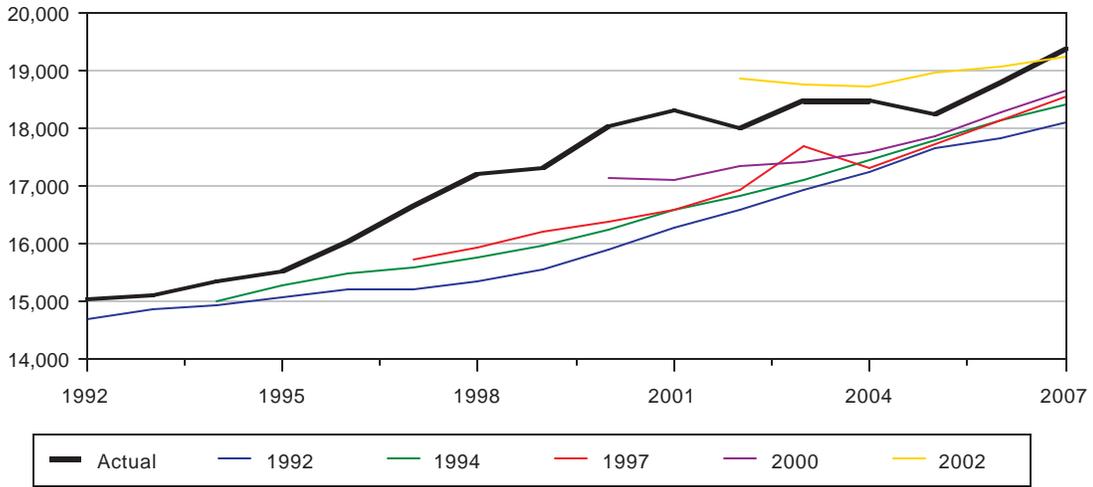


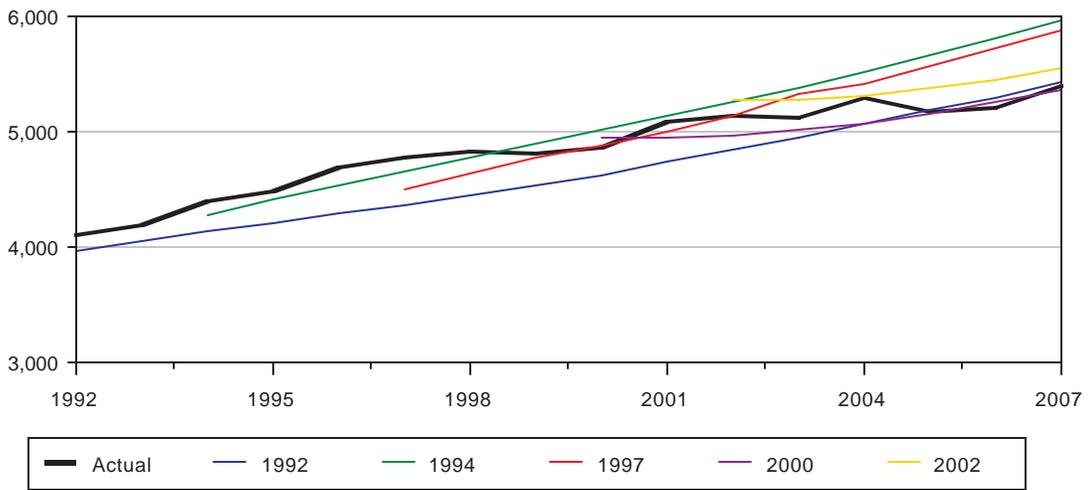
Figure 26.2
Population Projections



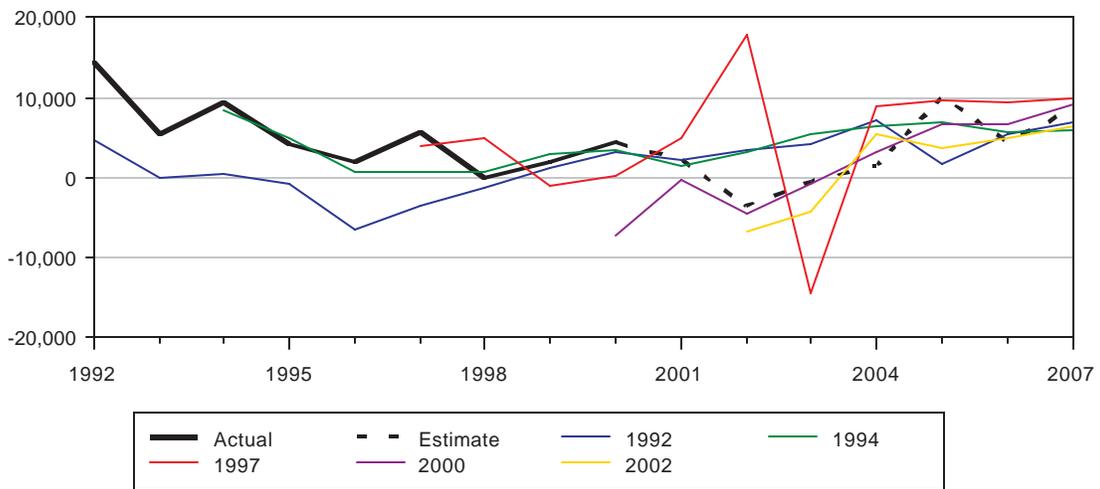
**Figure 26.3
Birth Projections**



**Figure 26.4
Death Projections**



**Figure 26.5
Migration Projections**



Population

Net Migration

Figure 26.6

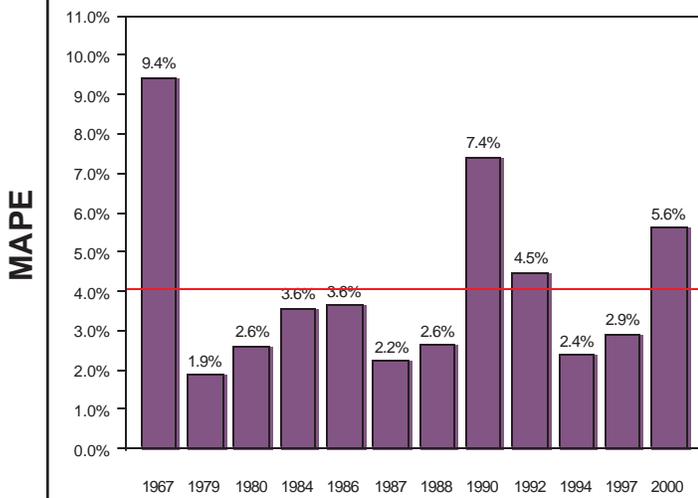


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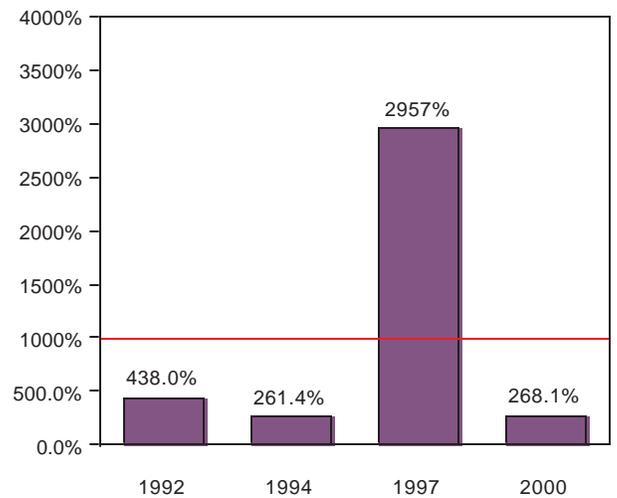


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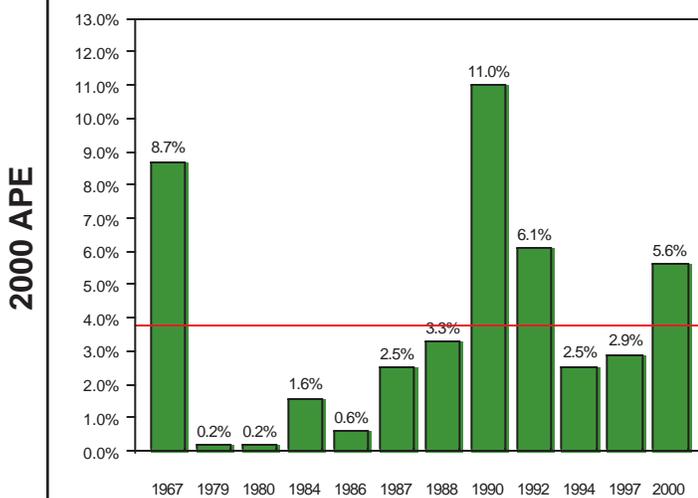


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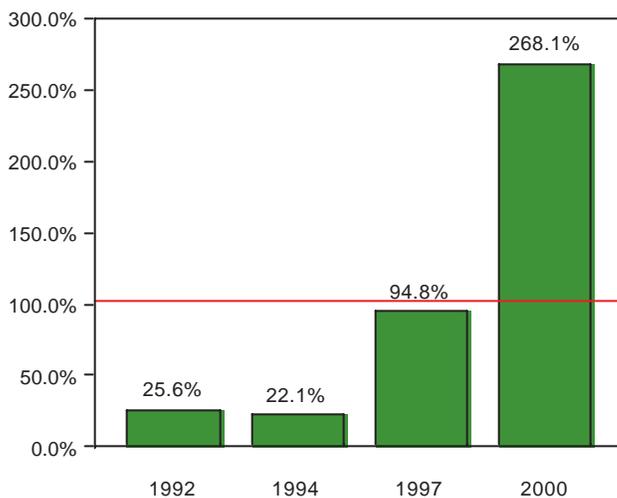


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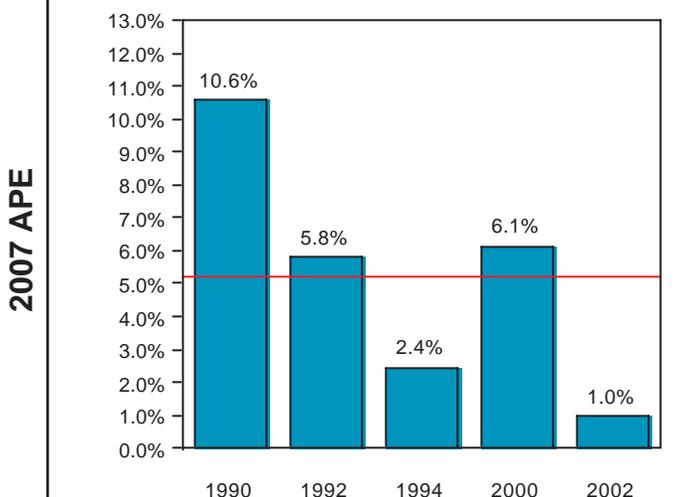
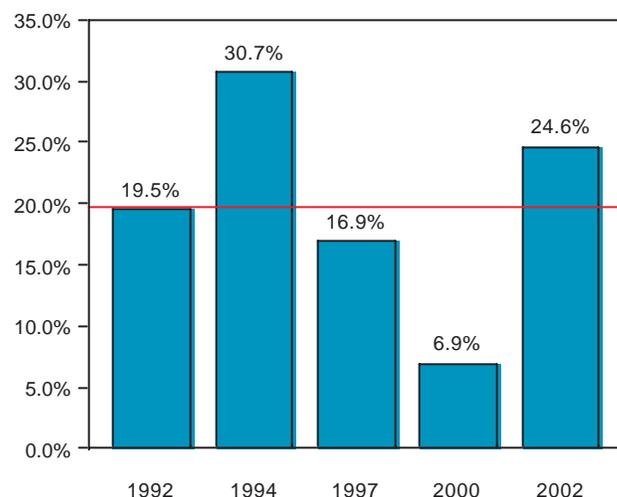


Figure 26.11



Births

Deaths

Figure 26.12

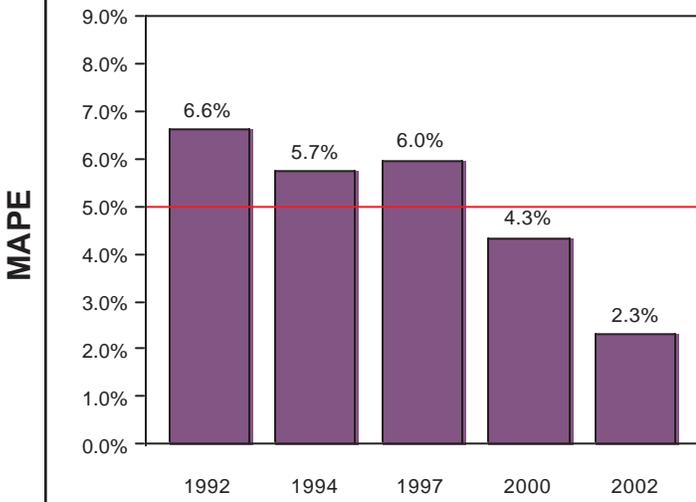


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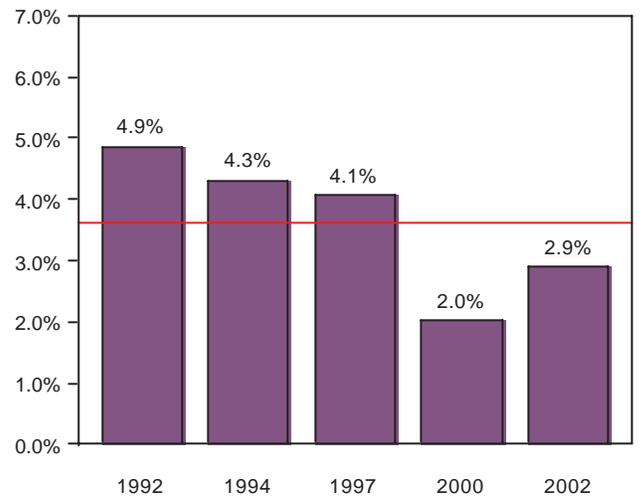


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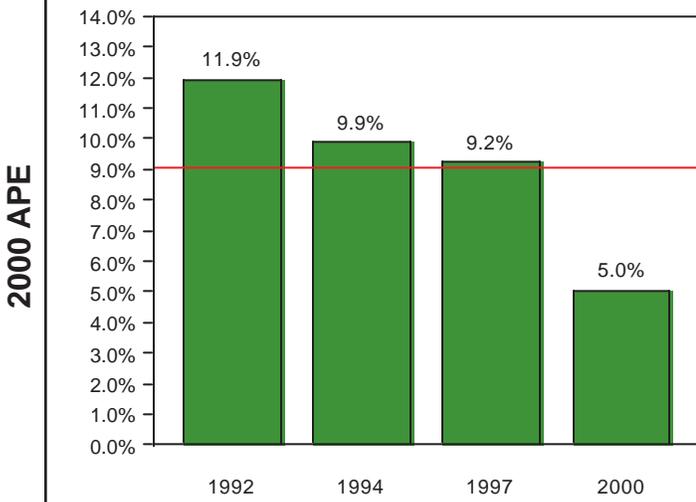


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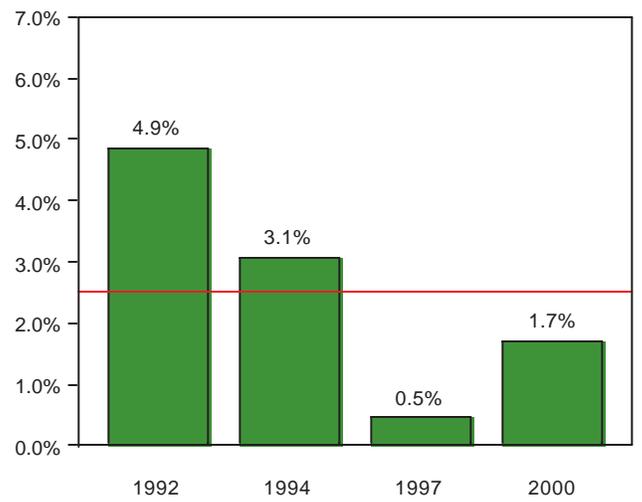


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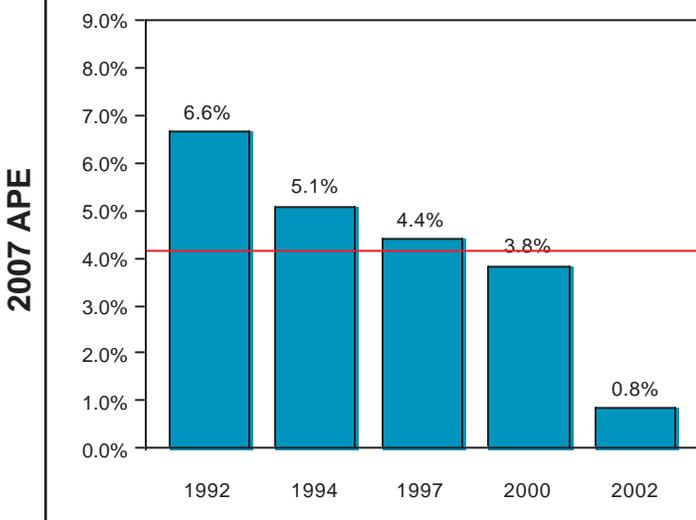
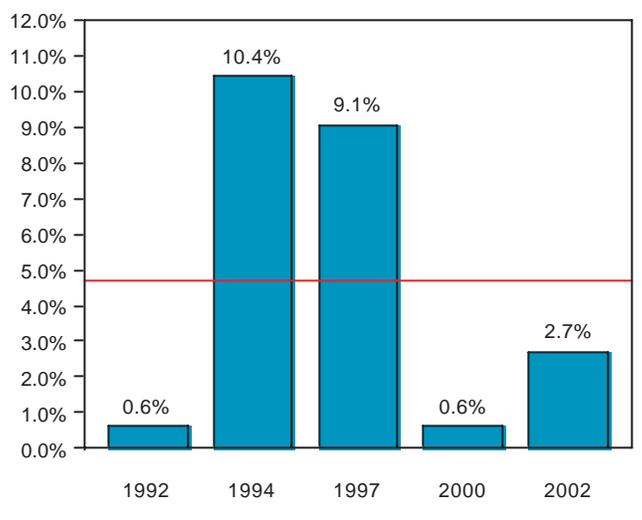


Figure 26.17



San Juan County

The 1986 baseline was the most accurate projection of the 2000 population with an absolute percent error of 1.5%. The 1994, 1997, and 2000 baselines were also close, all within a 6.1% error. The 1979 and 1980 baselines were the least accurate projections of the 2000 population with absolute percent errors of 48.1%. The 1967 baseline, the oldest projection of the 2000 population, had an absolute percent error of 30.6%. The average absolute percent error of all baselines for the 2000 population projection was 16.4%.

Overall, the 1986 baseline was the most accurate population projection with a mean absolute percent error of 2.6%. The 1979 baseline was the least accurate population projection with a mean absolute percent error of 54.9%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 22.5%.

Of the components of population change, projections for births were most accurate with an overall mean absolute percent error for all baselines of 32.8%, compared to 41.7% and 303.1% for deaths and net migration, respectively.

Figure 27.1
Population Components

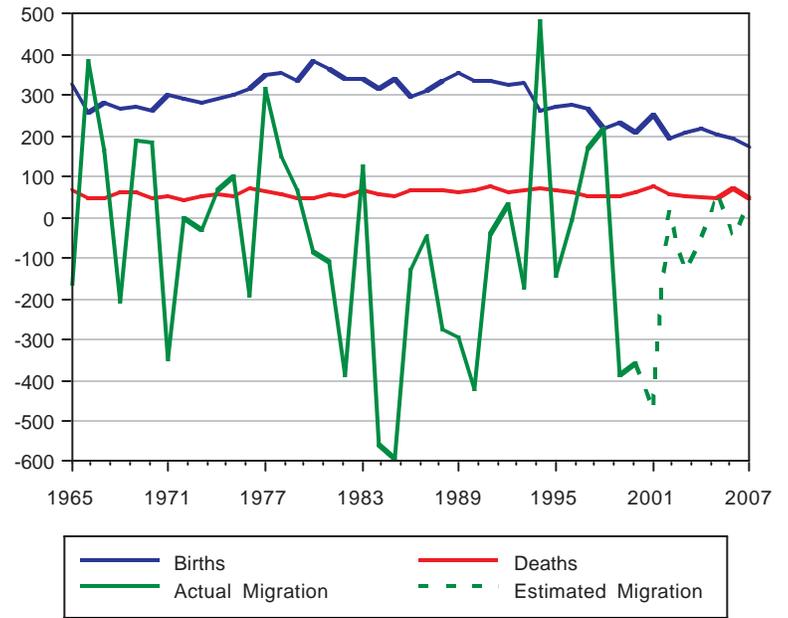
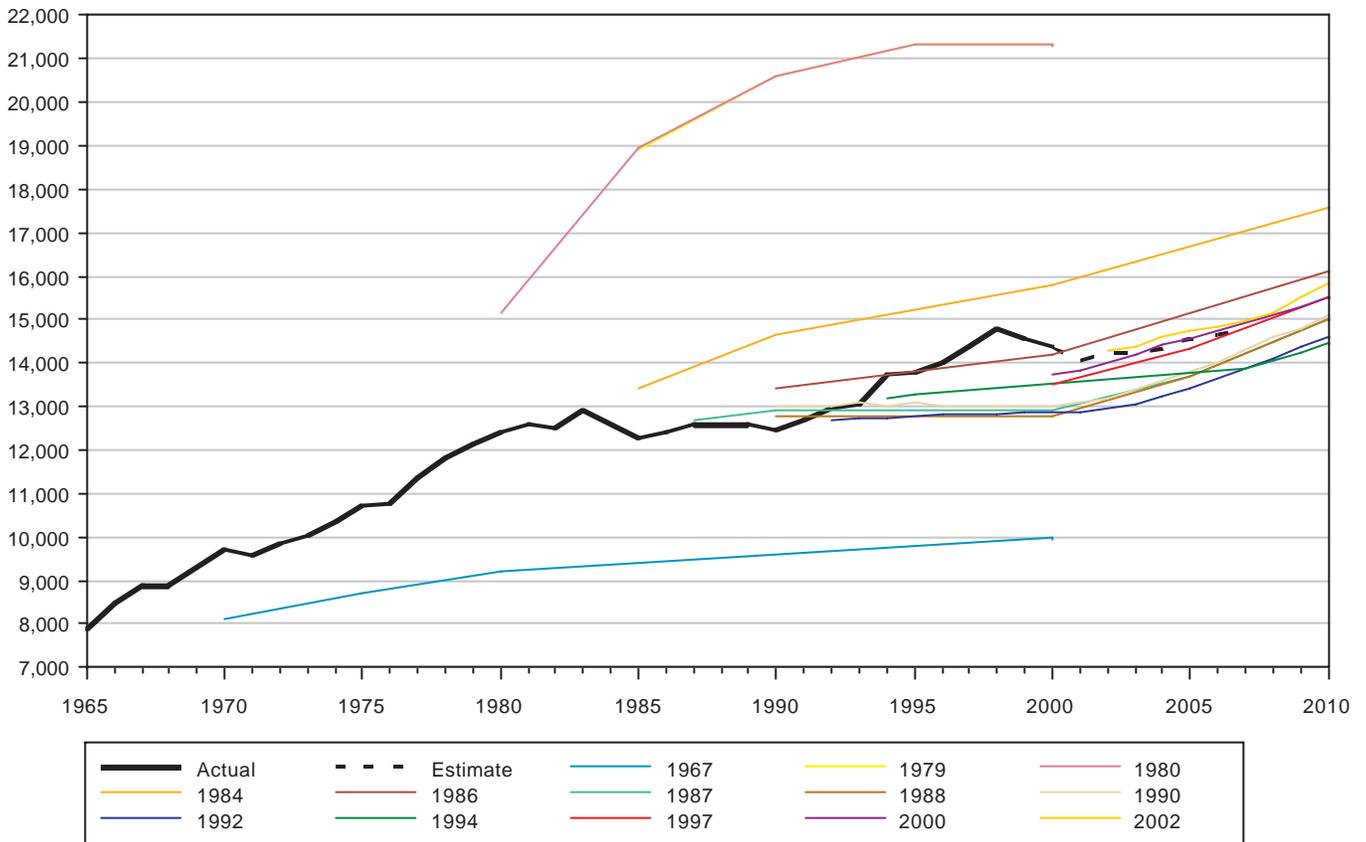
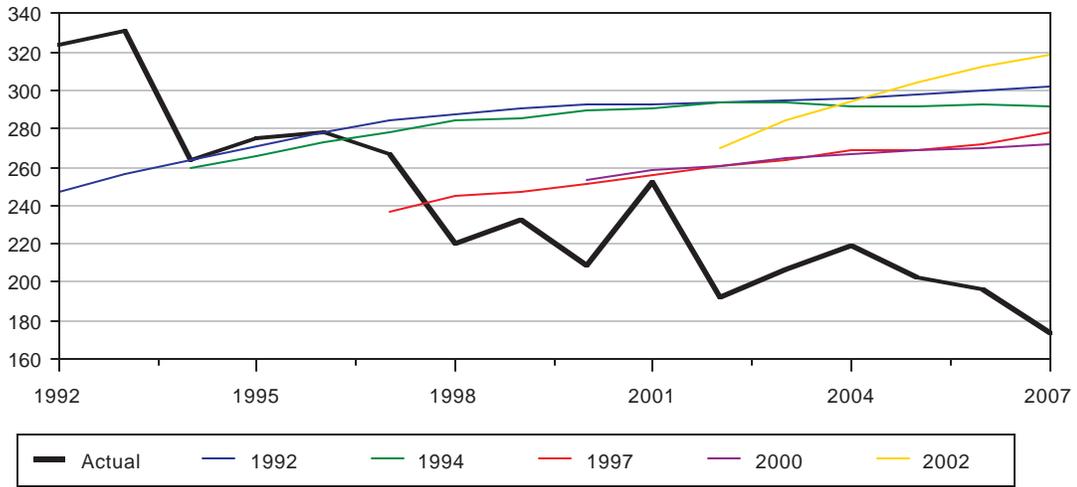


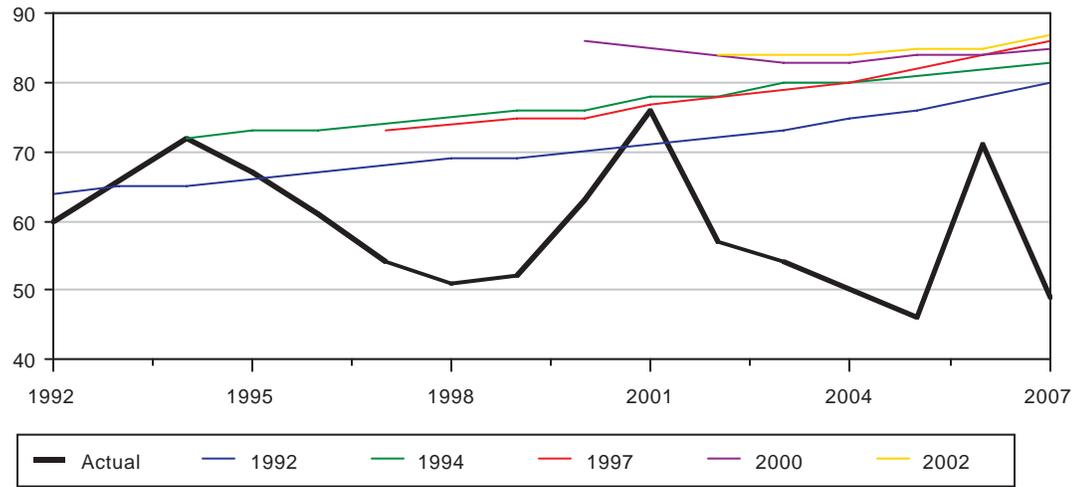
Figure 27.2
Population Projections



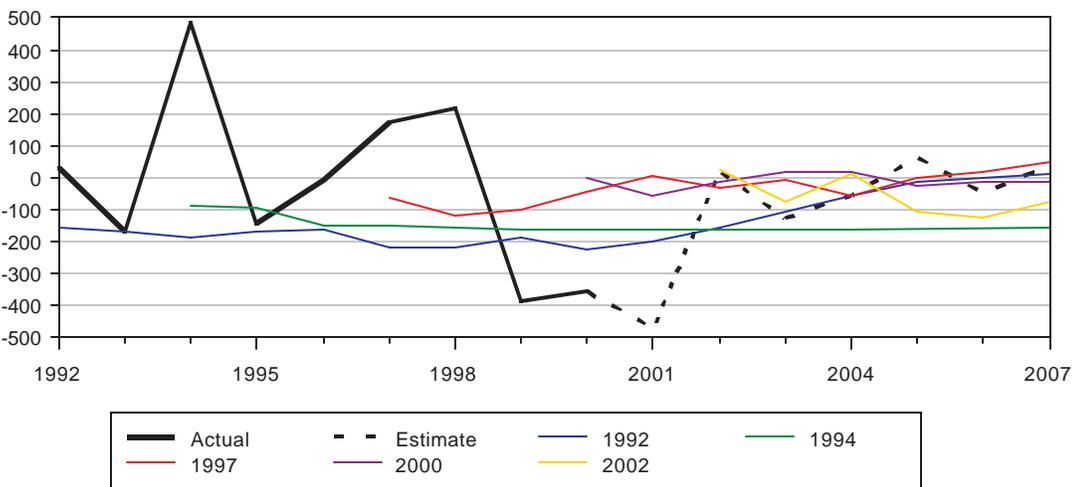
**Figure 27.3
Birth Projections**



**Figure 27.4
Death Projections**



**Figure 27.5
Migration Projections**



Population

Net Migration

Figure 27.6

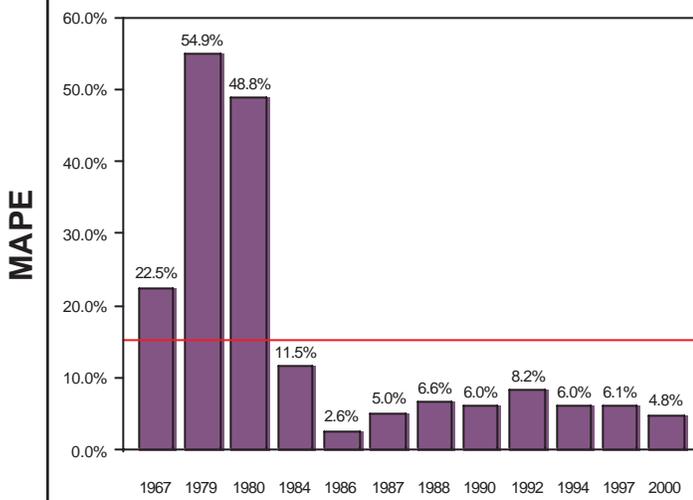


Figure 27.9

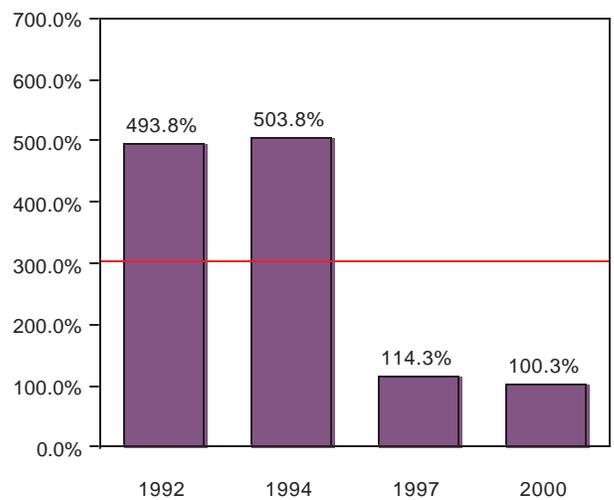


Figure 27.7

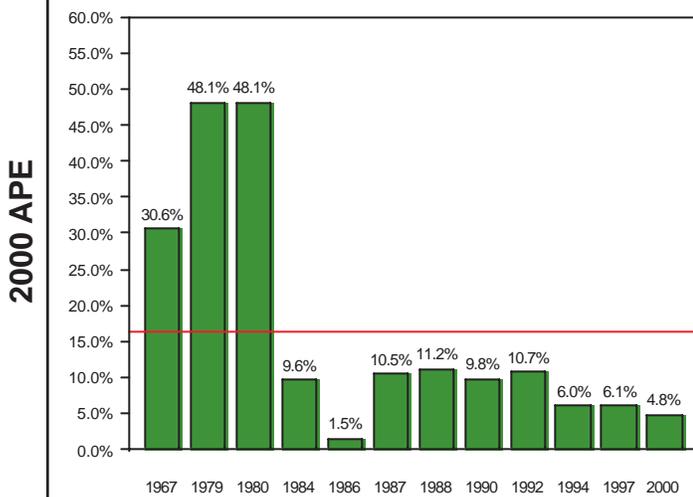


Figure 27.10

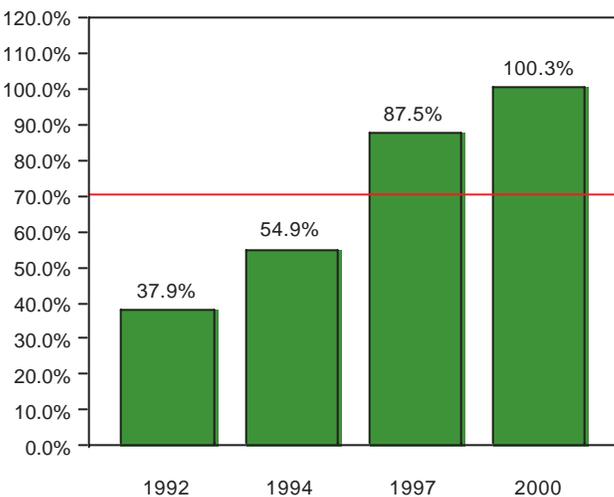


Figure 27.8

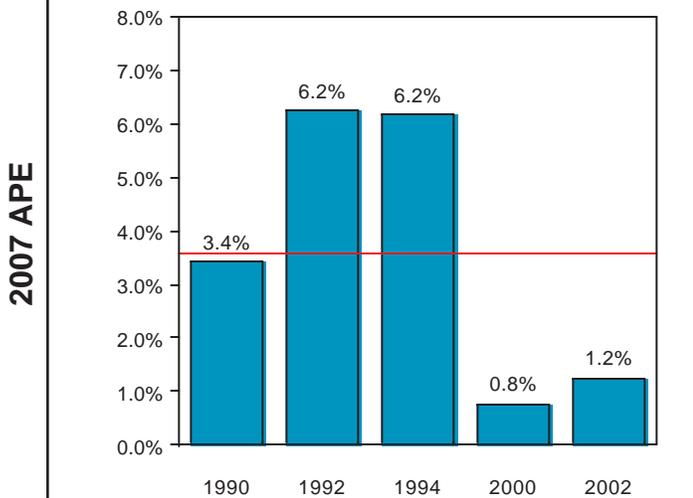
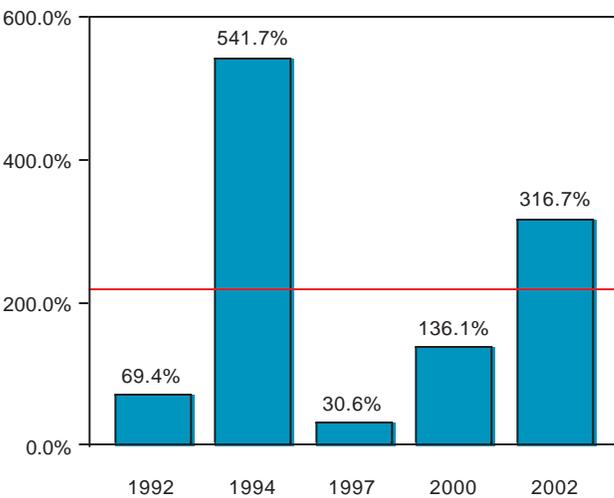


Figure 27.11



Births

Deaths

Figure 27.12

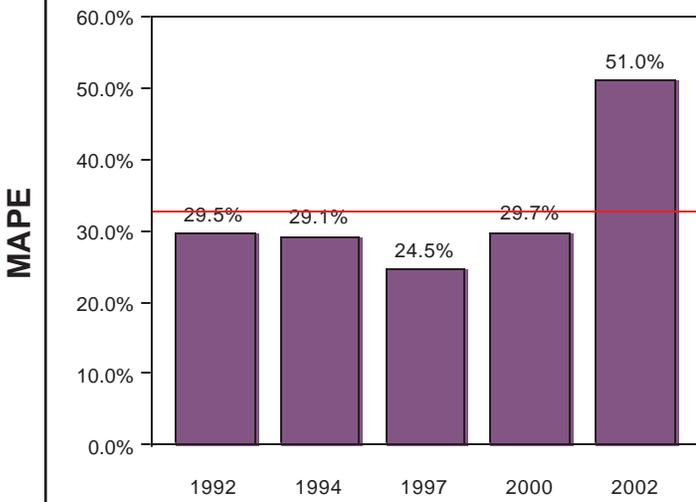


Figure 27.15

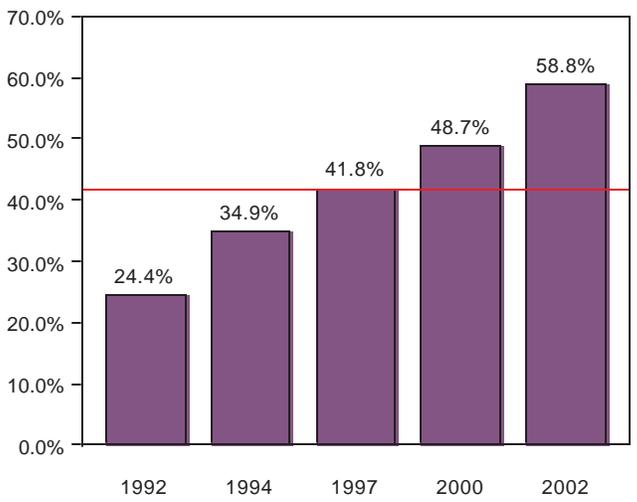


Figure 27.13

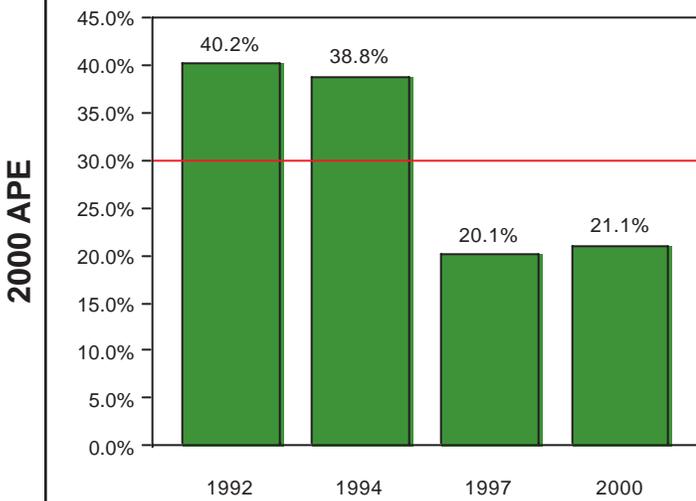


Figure 27.16

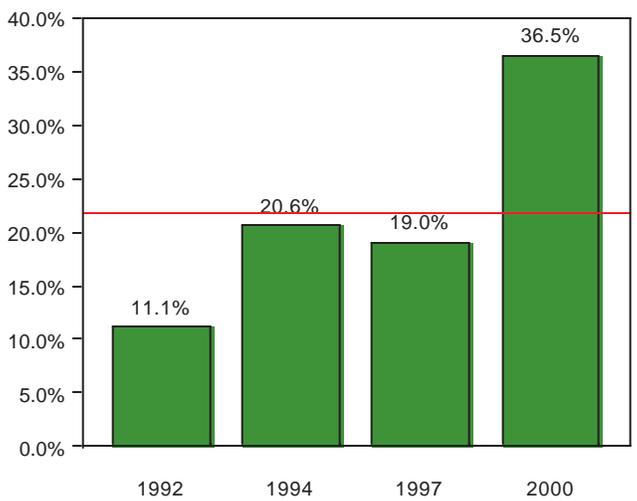


Figure 27.14

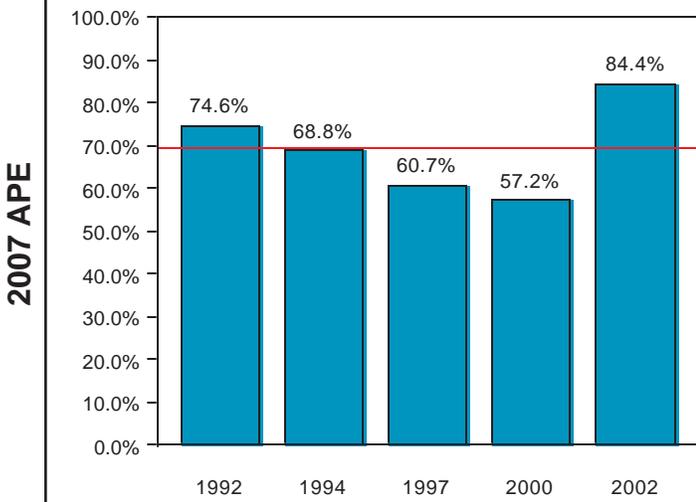
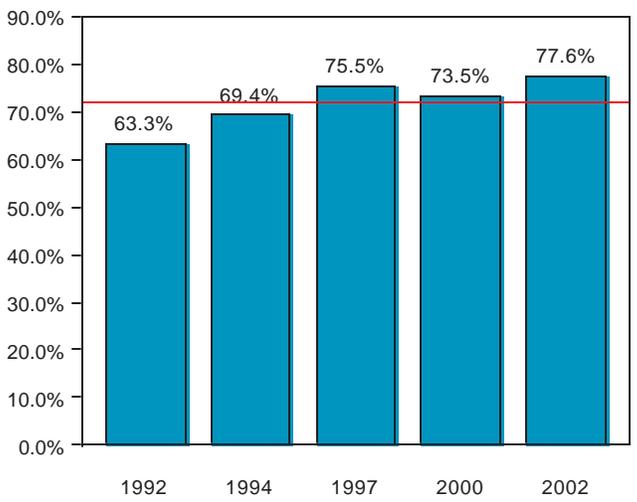


Figure 27.17



Sanpete County

The 1997 baseline was the most accurate projection of the 2000 population with an absolute percent error of 1.8%. The 1979, 1980, 1986, and 2000 baselines were also close, all within a 4.7% error. The 1967 baseline, the oldest projection of the 2000 population, was the least accurate projection with an absolute percent error of 51.7%. The average absolute percent error of all baselines for the 2000 population projection was 15.0%.

Overall, the 1997 baseline was the most accurate population projection with a mean absolute percent error of 1.8%. The 1967 baseline, the oldest projection, was the least accurate population projection with a mean absolute percent error of 21.6%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 5.5%, compared to 14.5% and 214.7% for births and net migration, respectively.

Figure 28.1
Population Components

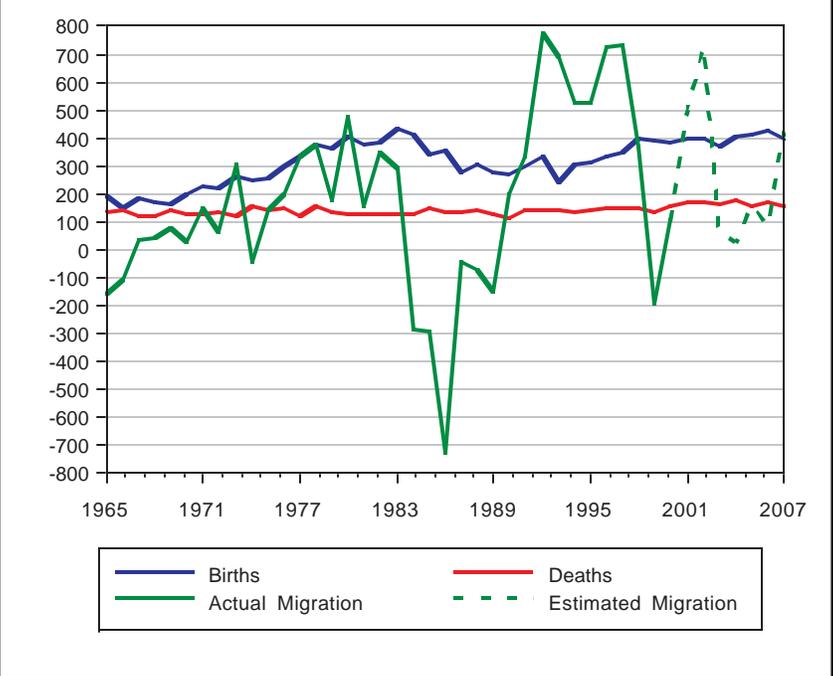
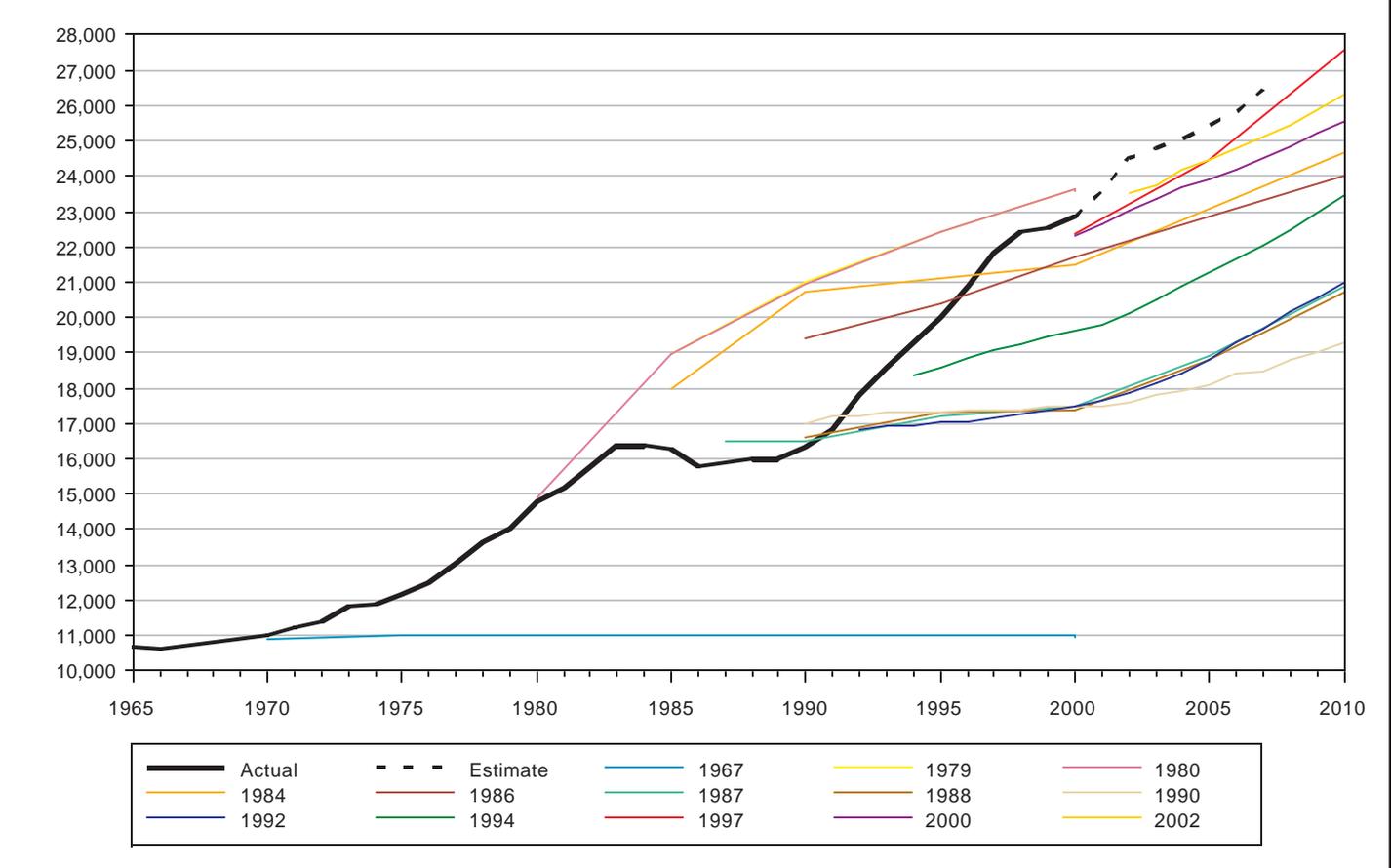
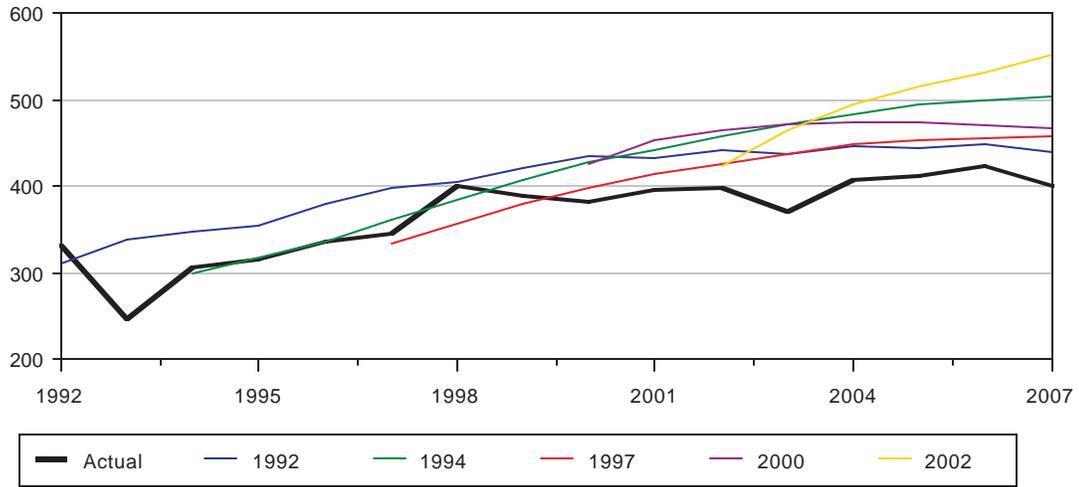


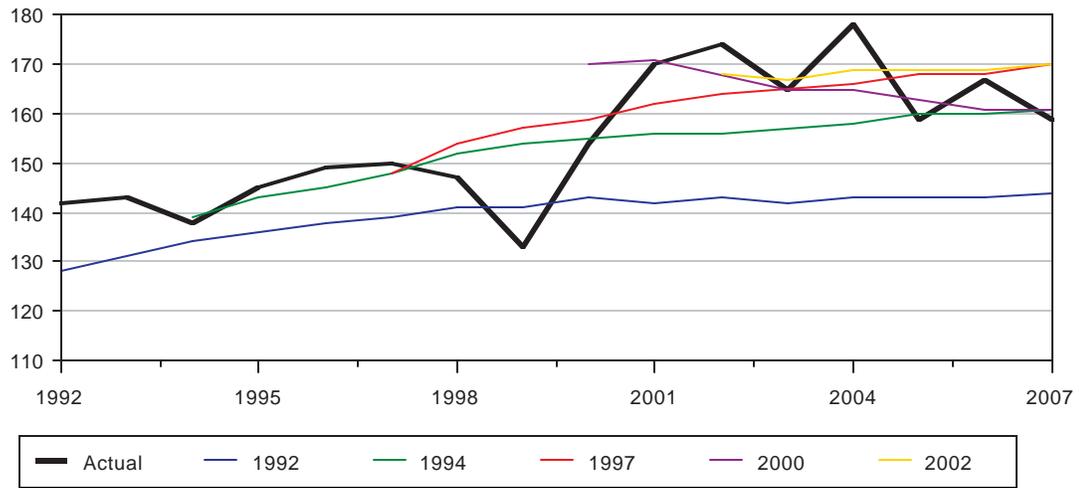
Figure 28.2
Population Projections



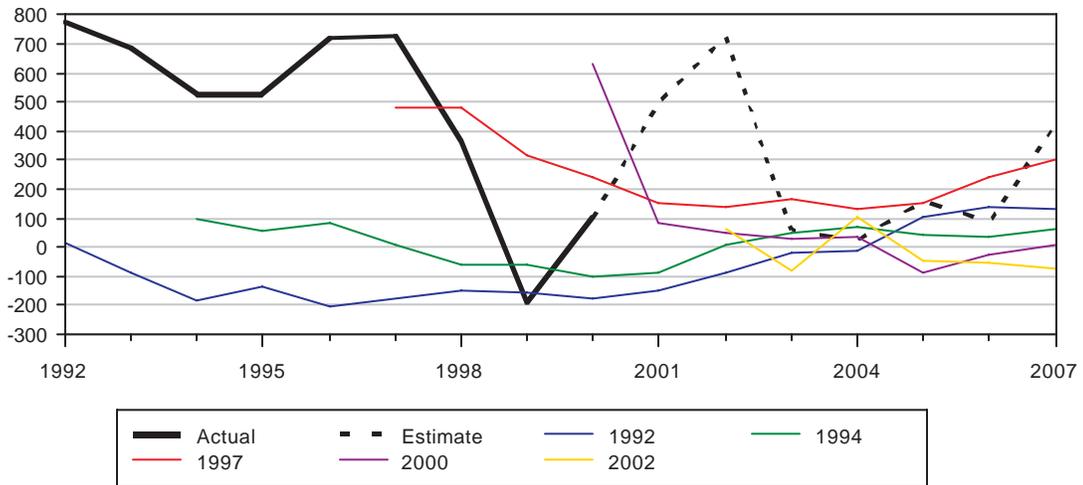
**Figure 28.3
Birth Projections**



**Figure 28.4
Death Projections**



**Figure 28.5
Migration Projections**



Sanpete County

Population

Net Migration

Figure 28.6

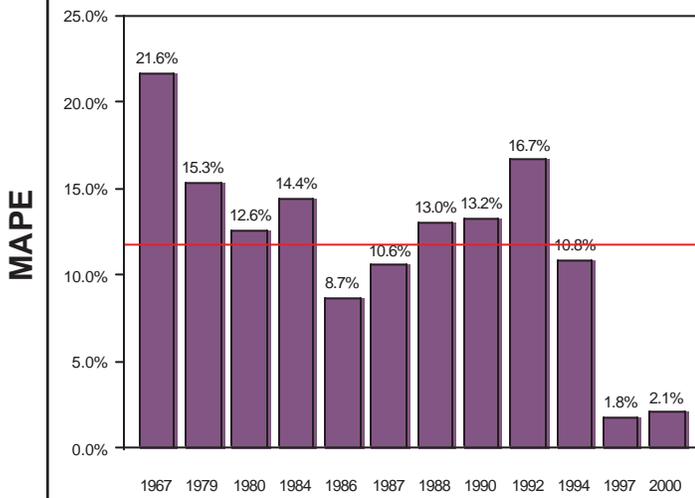


Figure 28.9

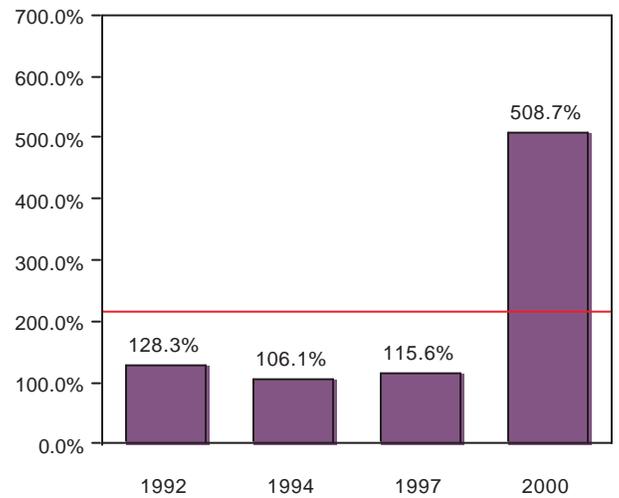


Figure 28.7

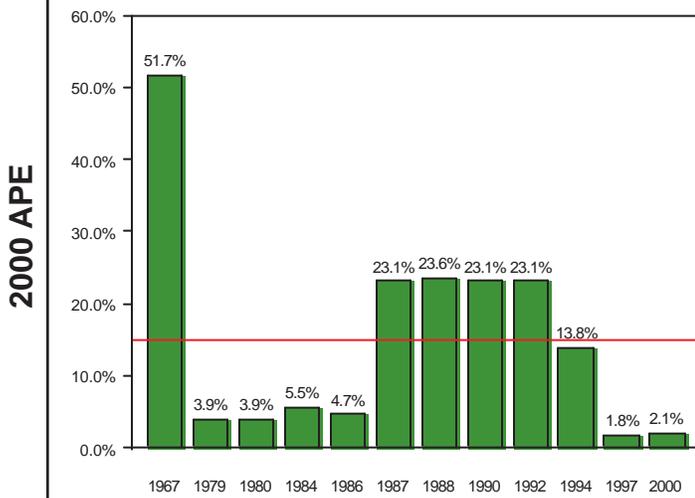


Figure 28.10

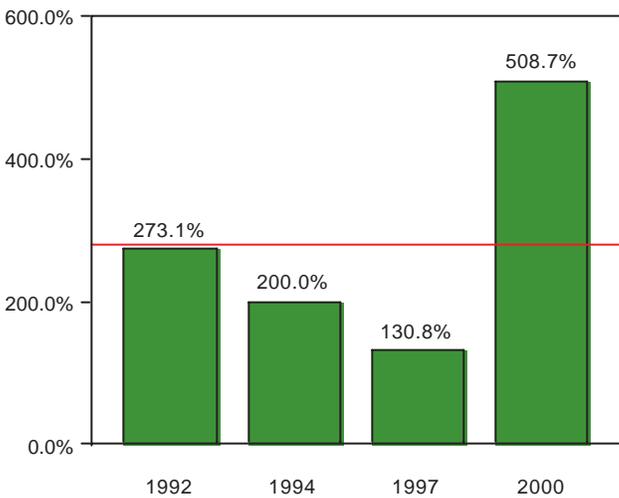


Figure 28.8

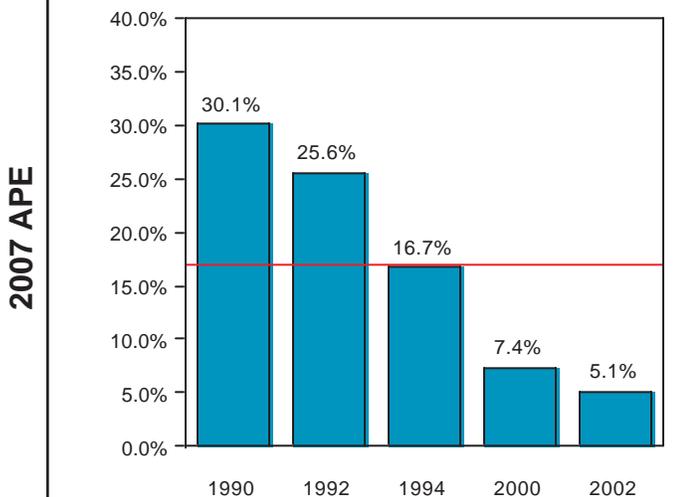
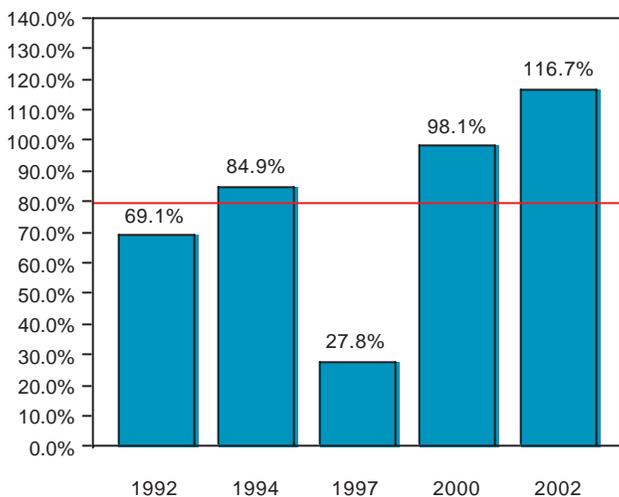
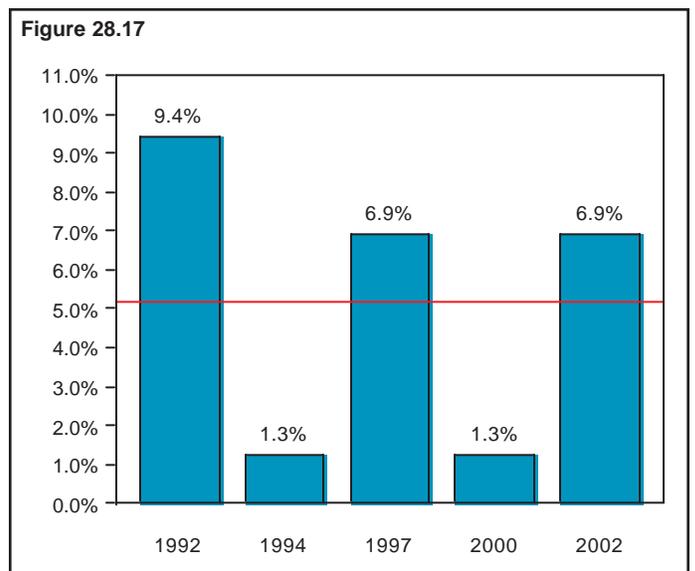
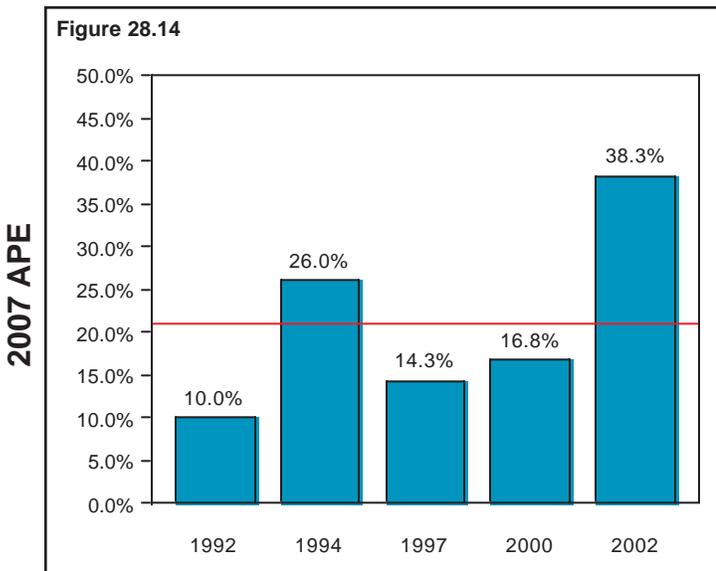
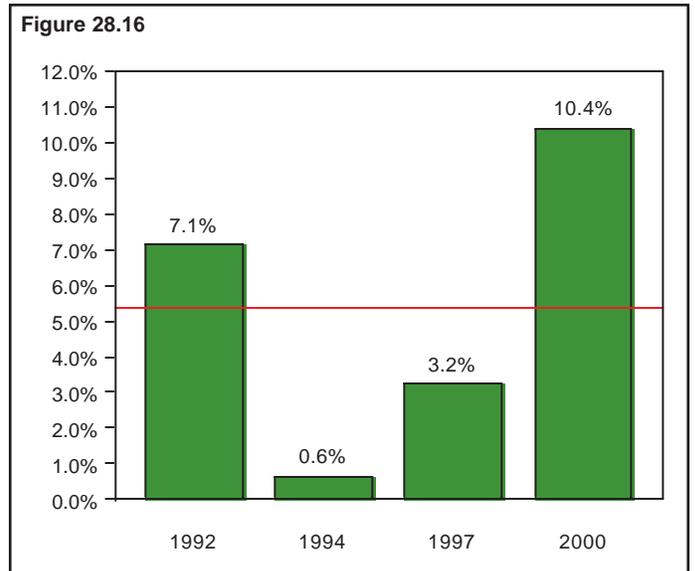
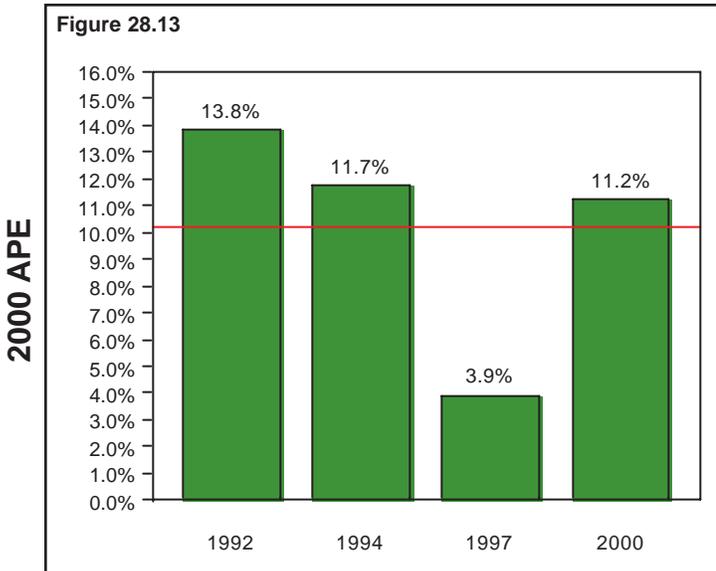
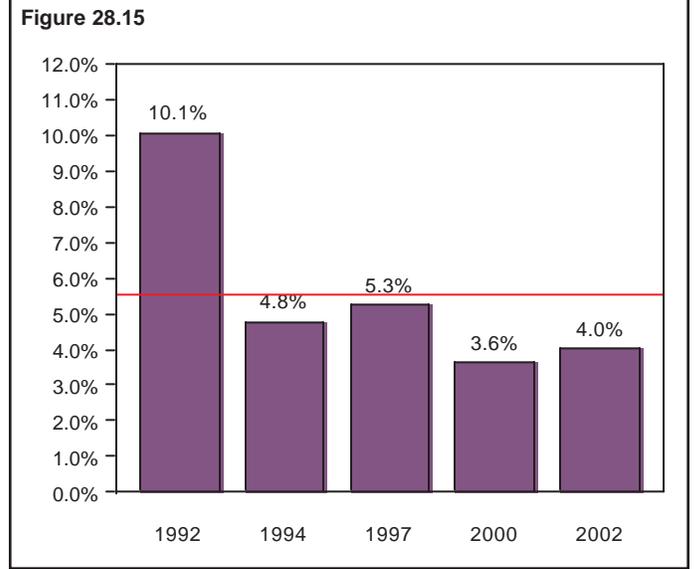
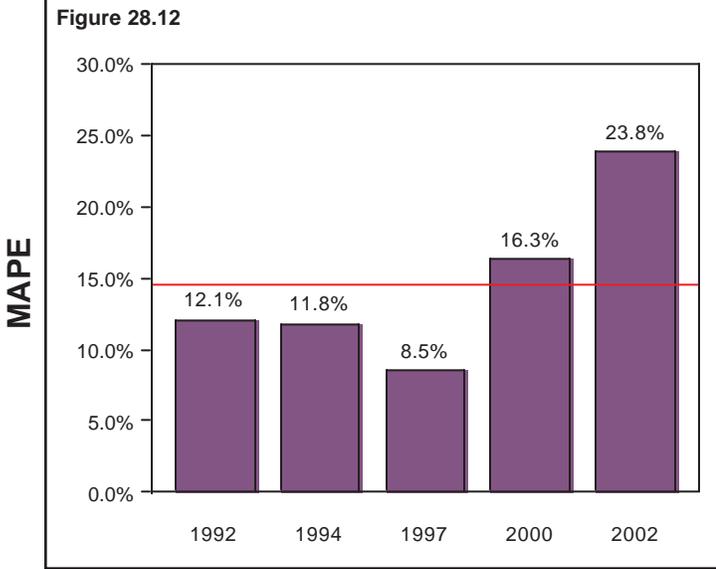


Figure 28.11



Births

Deaths



Sevier County

The 2000 baseline was the most accurate projection of the 2000 population with an absolute percent error of 1.7%. The 1994 and 1997 baselines were also close, both within a 4.1% error. The 1979 baseline was the least accurate projection of the 2000 population with an absolute percent error of 50.2%. The 1967 baseline, the oldest projection of the 2000 population, had an absolute percent error of 36.3%. The average absolute percent error of all baselines for the 2000 population projection was 19.4%.

Overall, the 2000 baseline was the most accurate population projection with a mean absolute percent error of 1.7%. The 1979 baseline was the least accurate population projection with a mean absolute percent error of 47.6%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 22.4%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 6.8%, compared to 19.0% and 85.7% for births and net migration, respectively.

Figure 29.1
Population Components

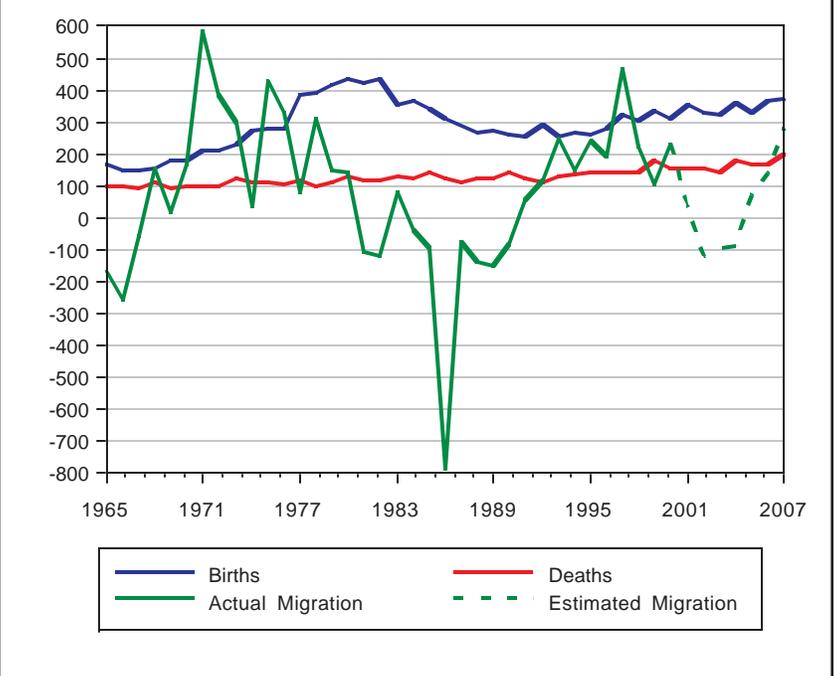
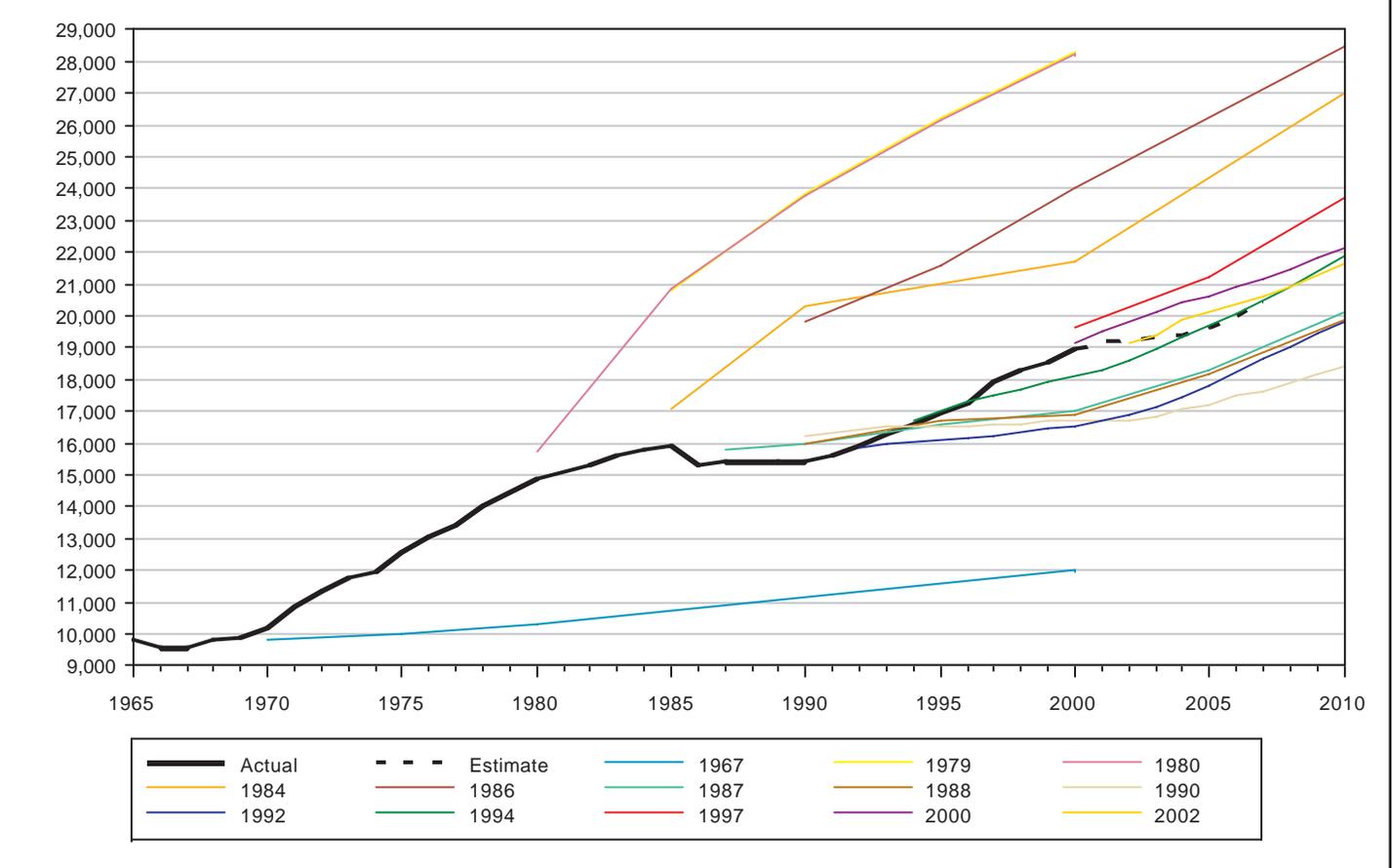
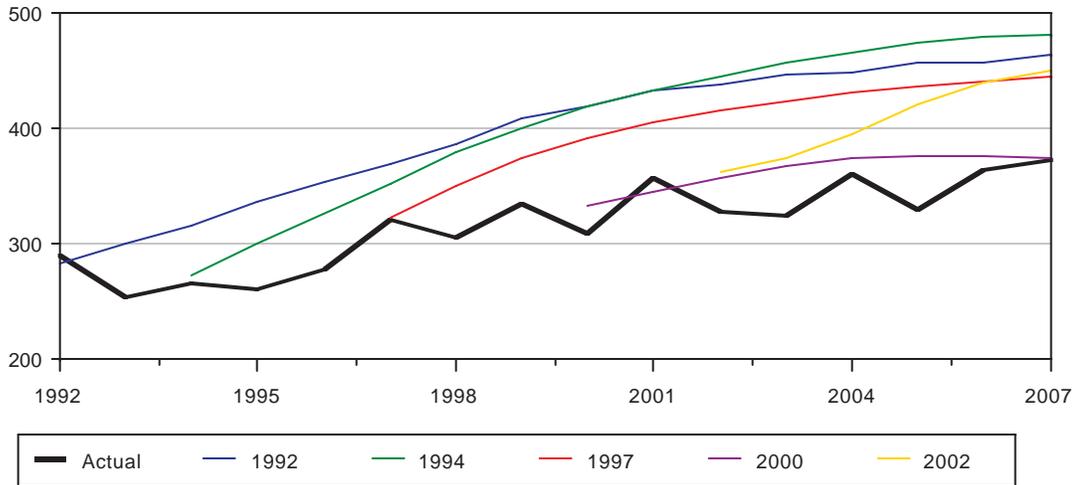


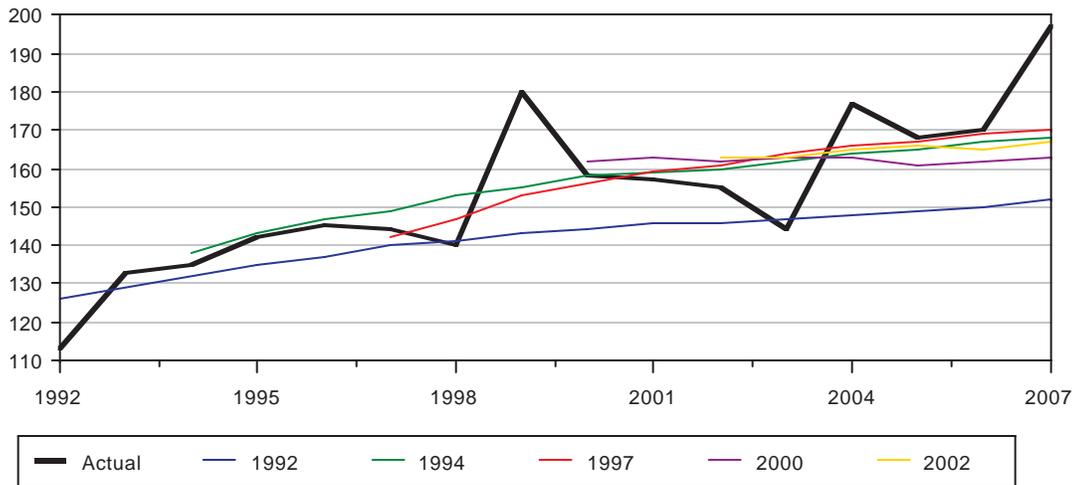
Figure 29.2
Population Projections



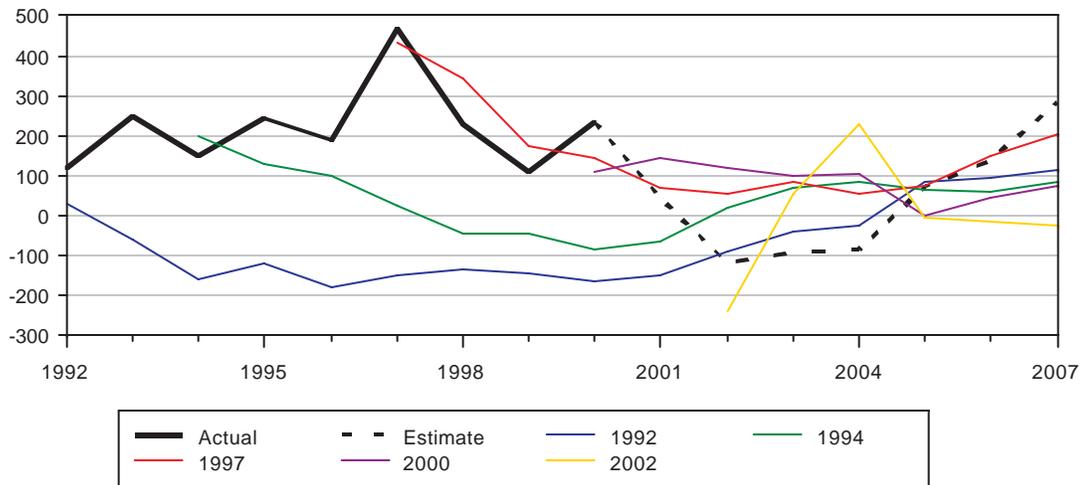
**Figure 29.3
Birth Projections**



**Figure 29.4
Death Projections**



**Figure 29.5
Migration Projections**



Population

Net Migration

Figure 29.6

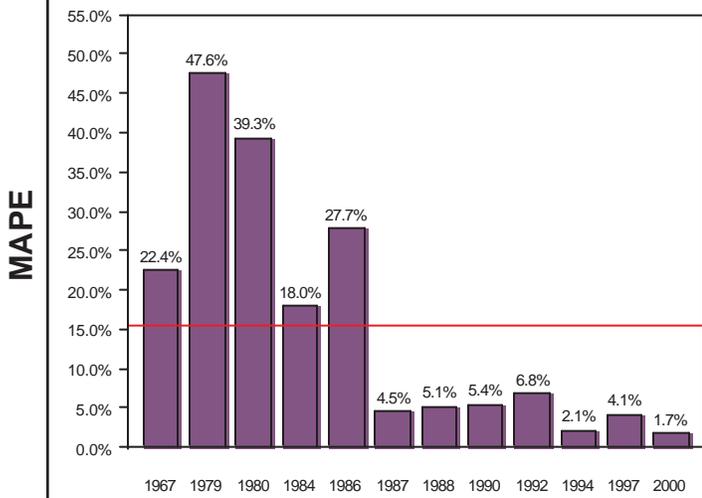


Figure 29.9

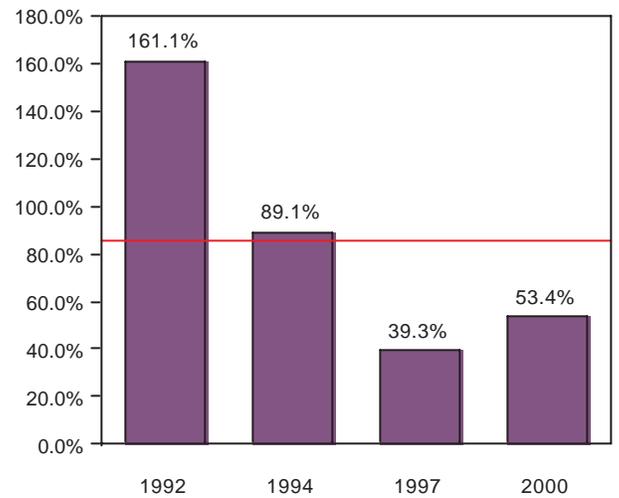


Figure 29.7

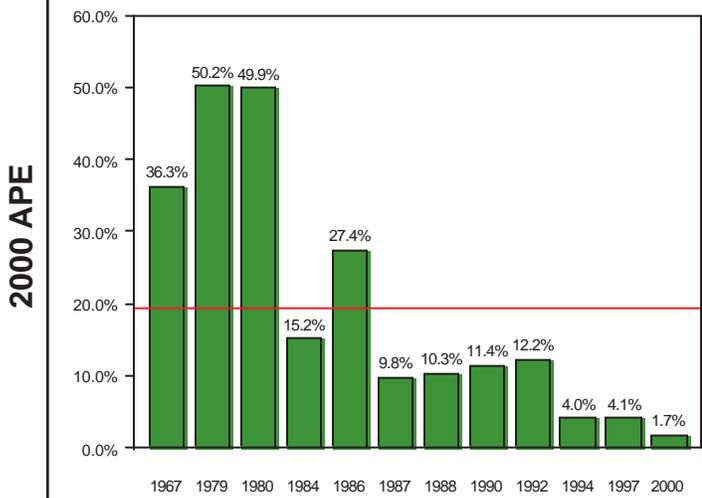


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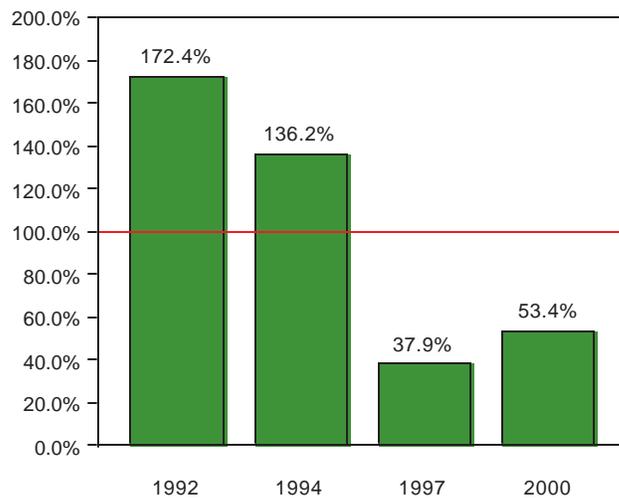


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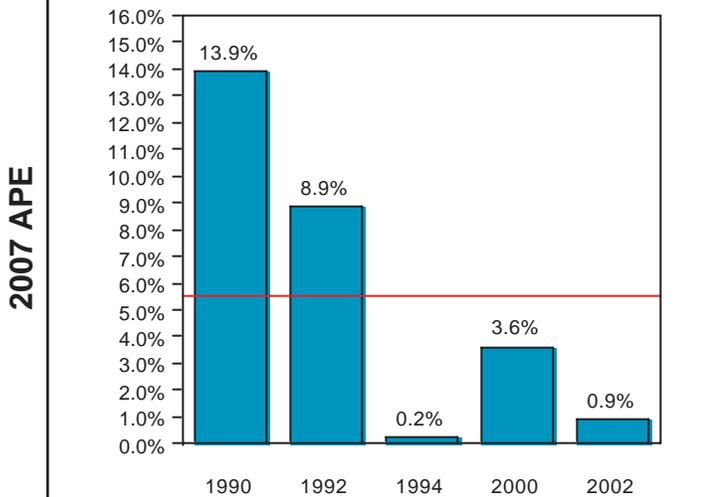
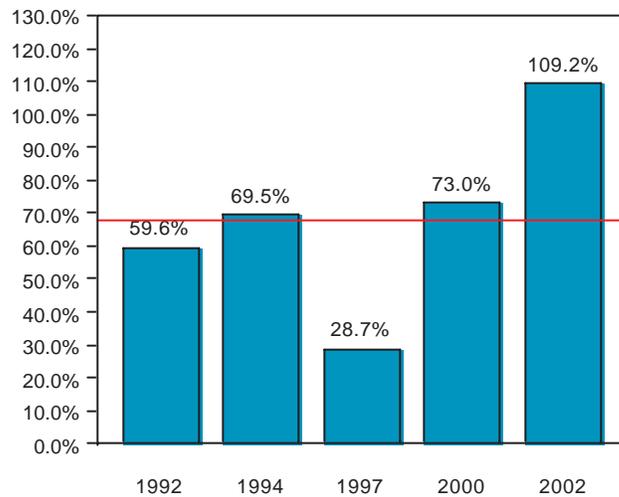


Figure 29.11



Births

Deaths

Figure 29.12

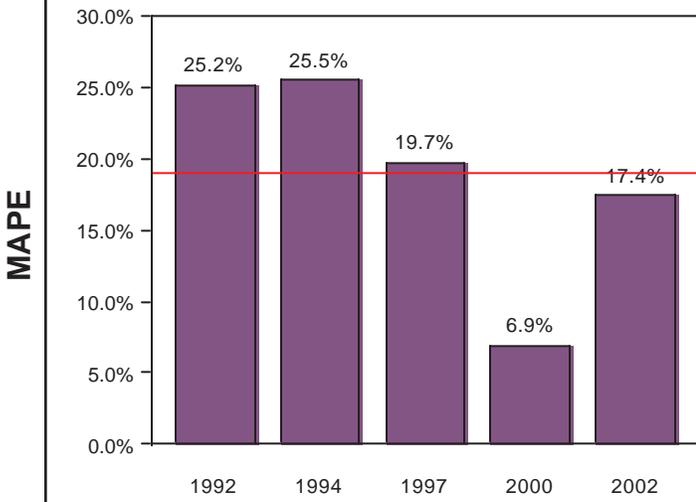


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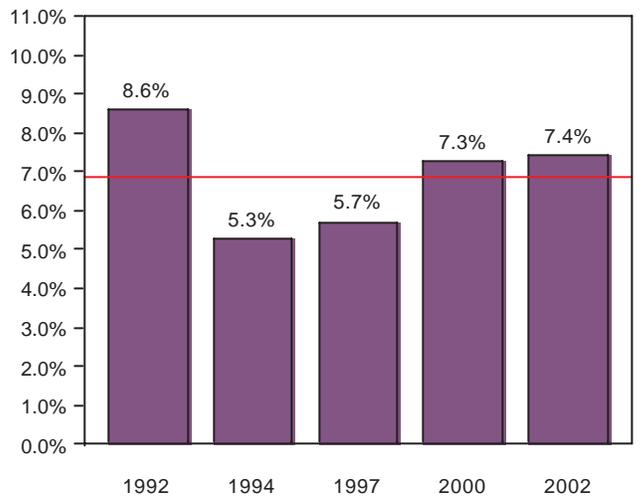


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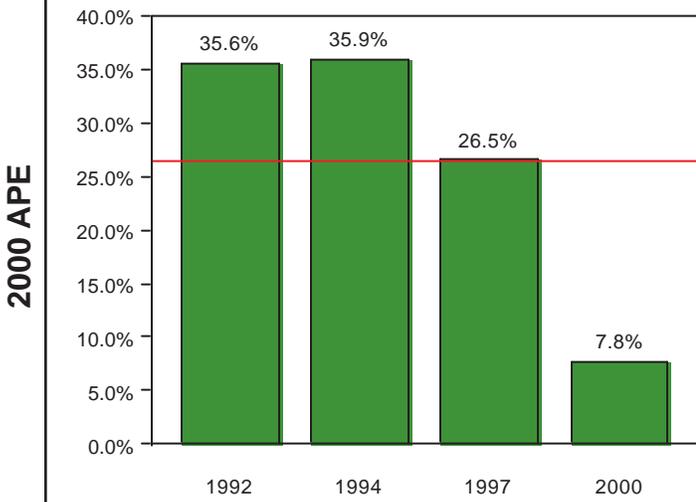


Figure 29.16

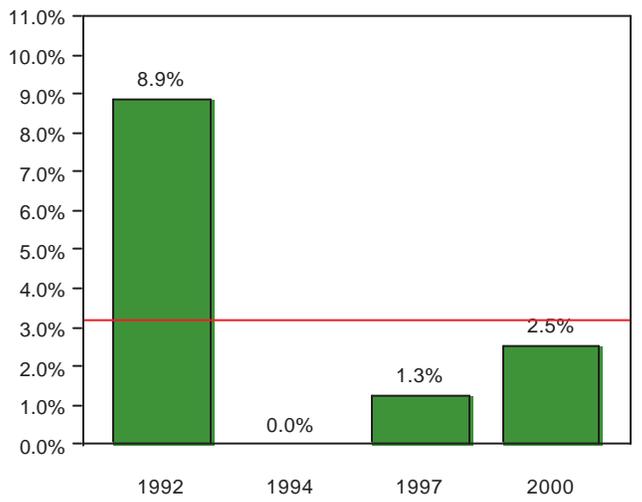


Figure 29.14

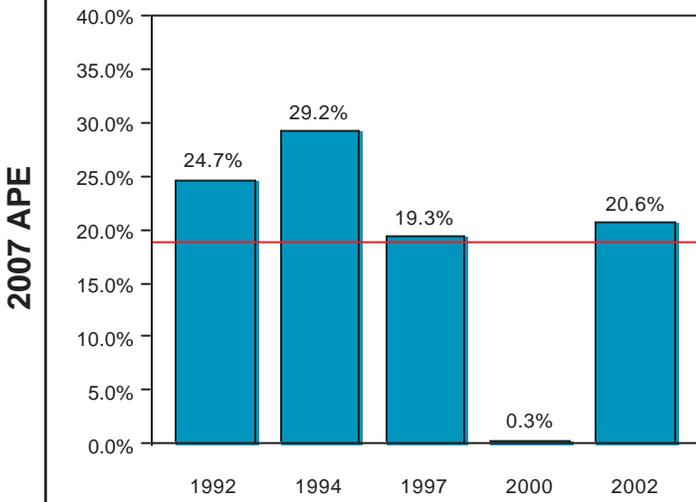
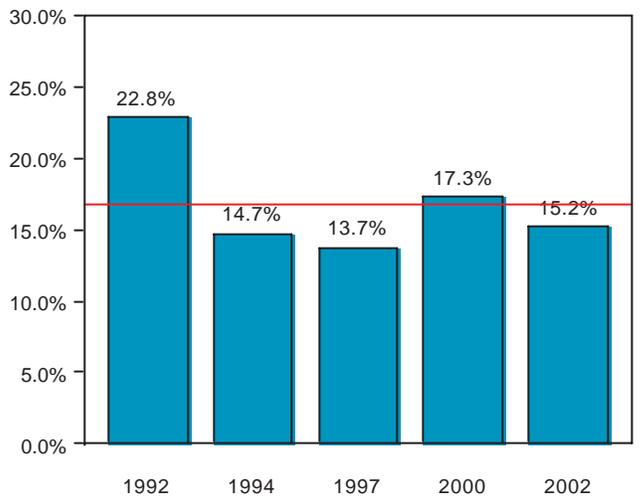


Figure 29.17



Summit County

The 1997 baseline was the most accurate projection of the 2000 population with an absolute percent error of 7.5%. The 1994 and 2000 baselines were also close, both within a 13.0% error. The 1967 baseline, the oldest projection of the 2000 population, was the least accurate projection with an absolute percent error of 64.7%. The average absolute percent error of all baselines for the 2000 population projection was 37.2%.

Overall, the 1997 baseline was the most accurate population projection with a mean absolute percent error of 7.5%. The 1979 baseline was the least accurate population projection with a mean absolute percent error of 38.6%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 22.6%.

Of the components of population change, projections for births were most accurate with an overall mean absolute percent error for all baselines of 13.4%, compared to 41.8% and 55.6% for deaths and net migration, respectively.

Figure 30.1
Population Components

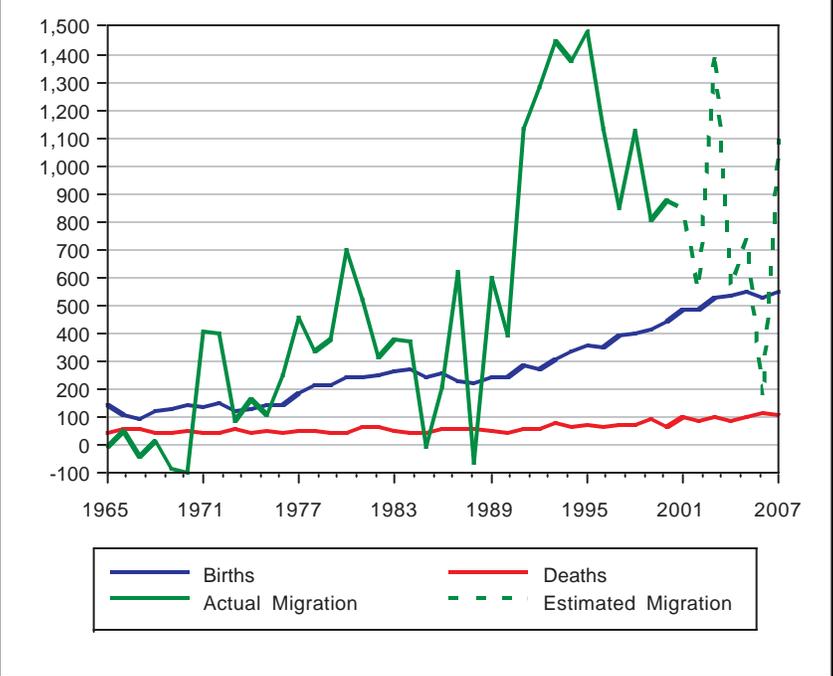


Figure 30.2
Population Projections

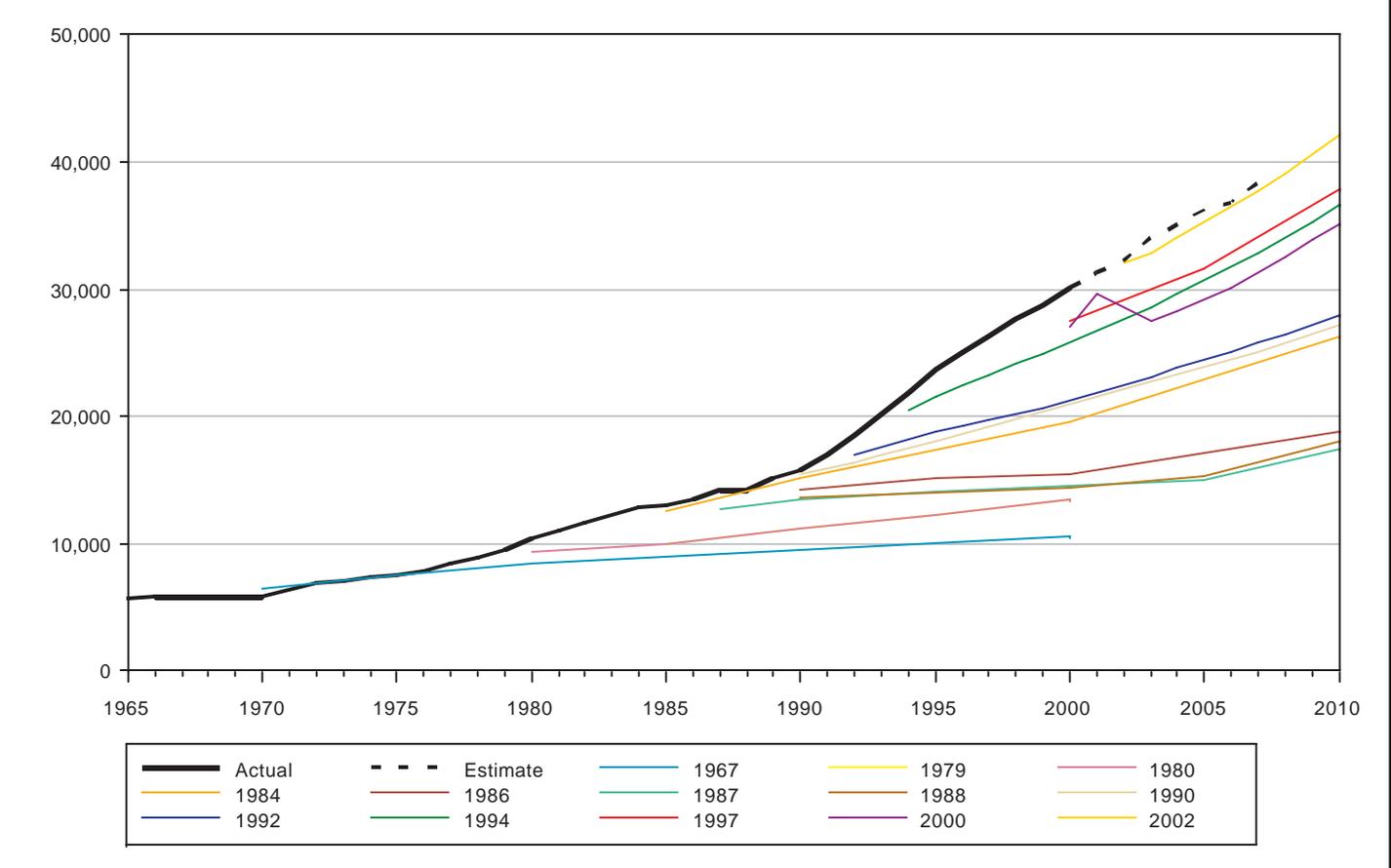


Figure 30.3
Birth Projections

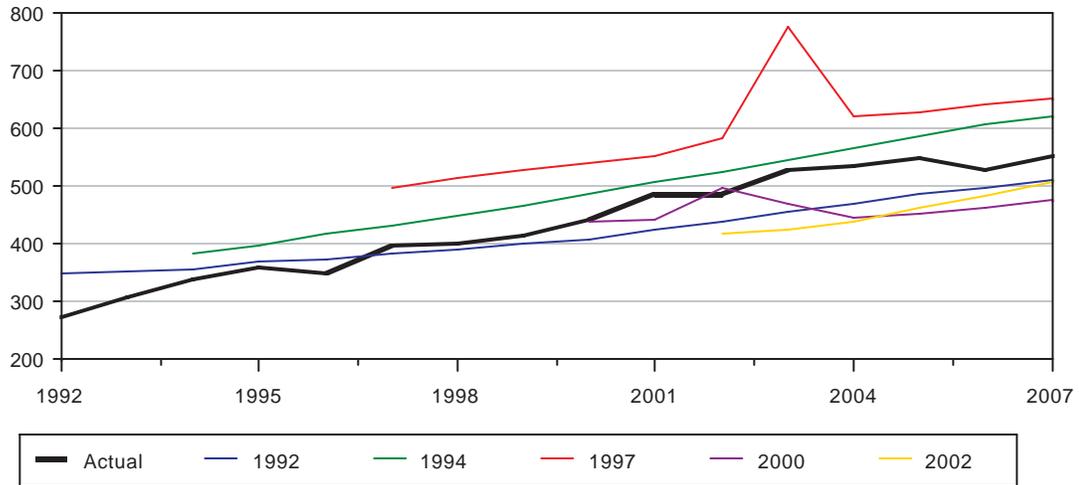


Figure 30.4
Death Projections

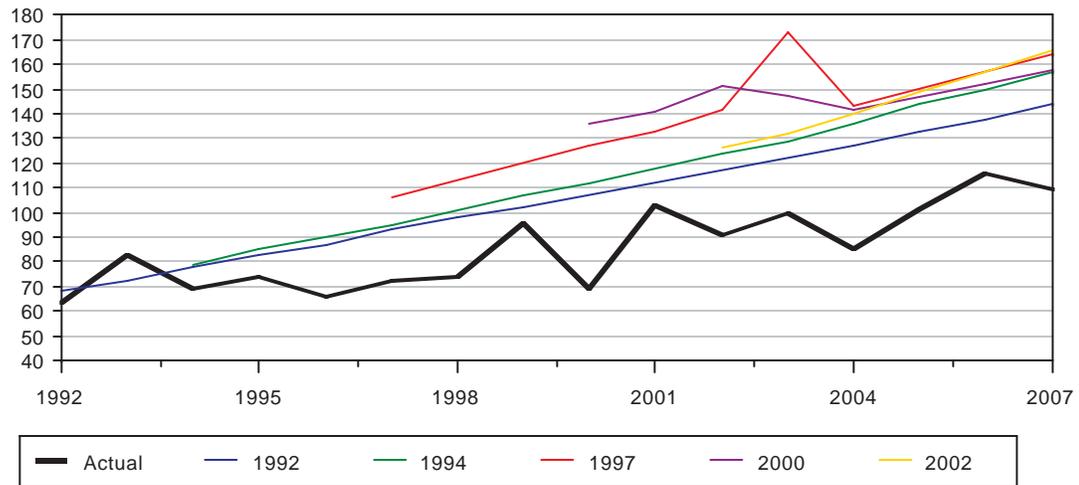
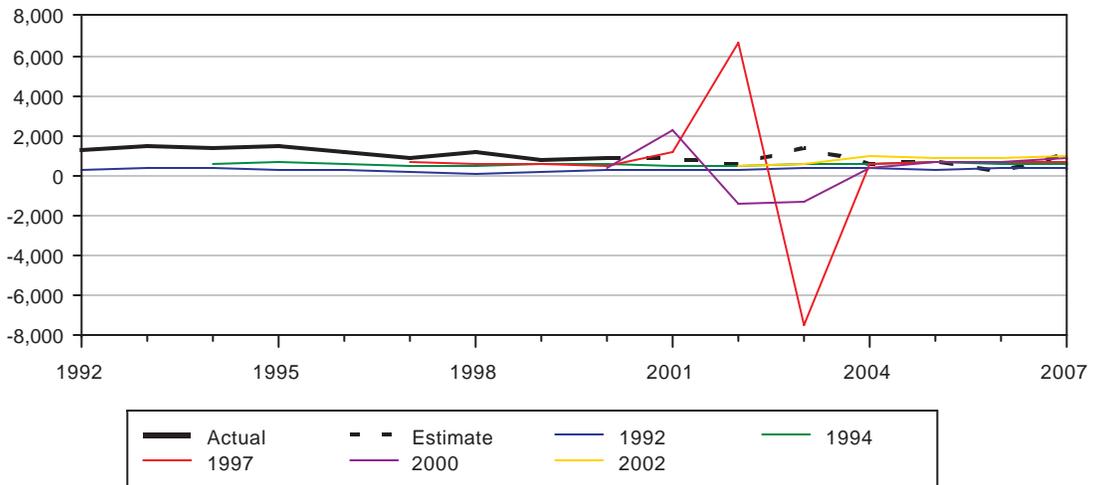


Figure 30.5
Migration Projections



Population

Net Migration

Figure 30.6

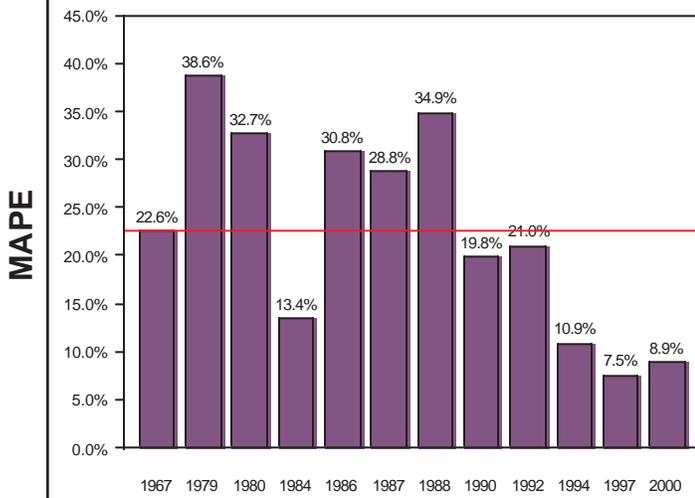


Figure 30.9

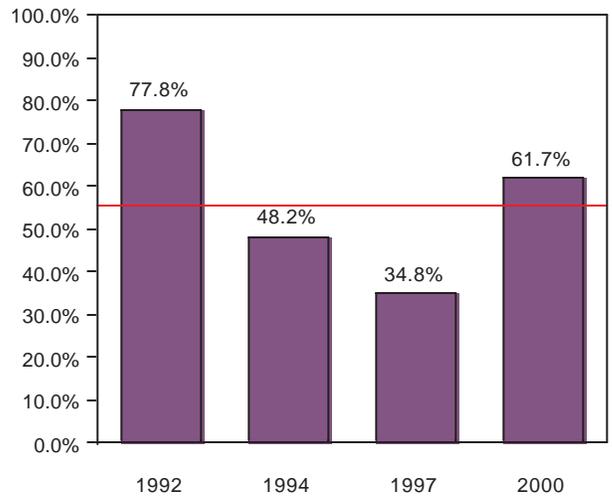


Figure 30.7

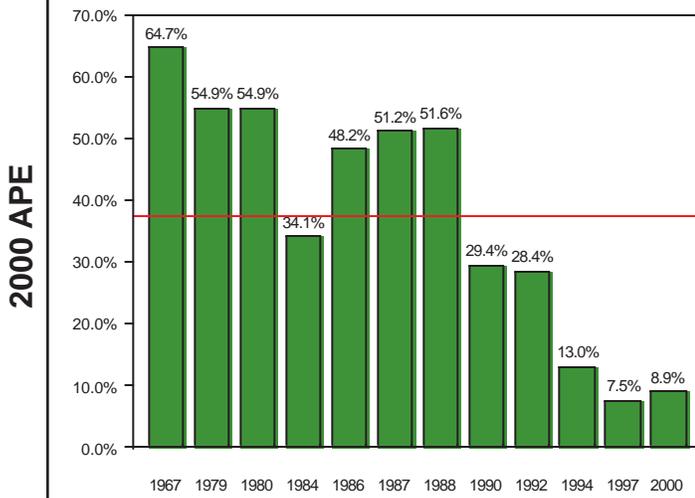


Figure 30.10

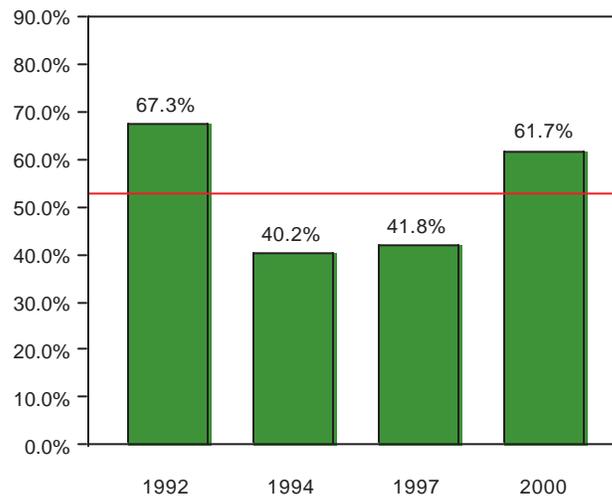


Figure 30.8

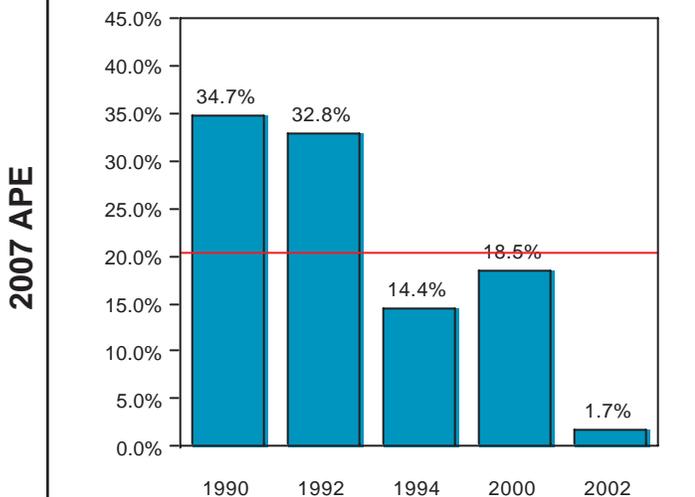
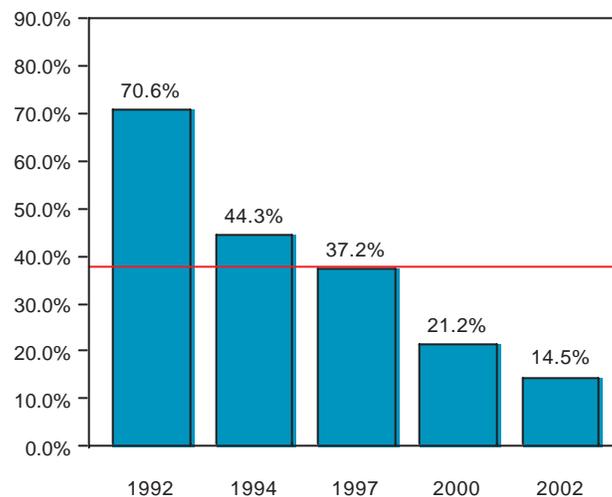
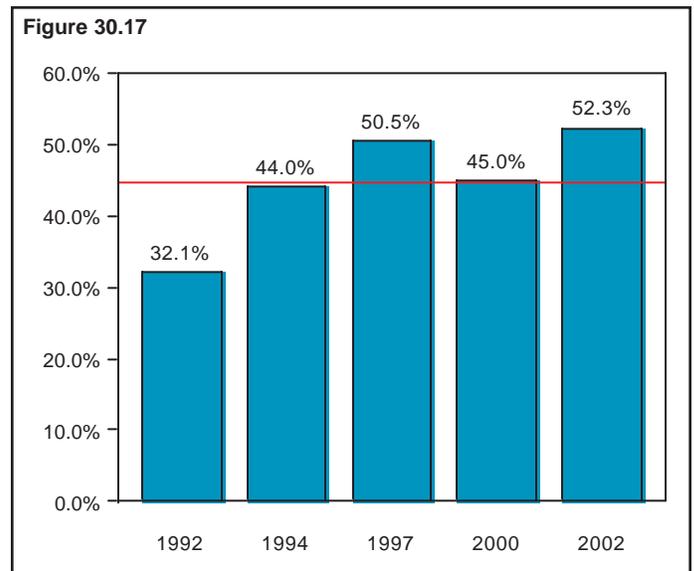
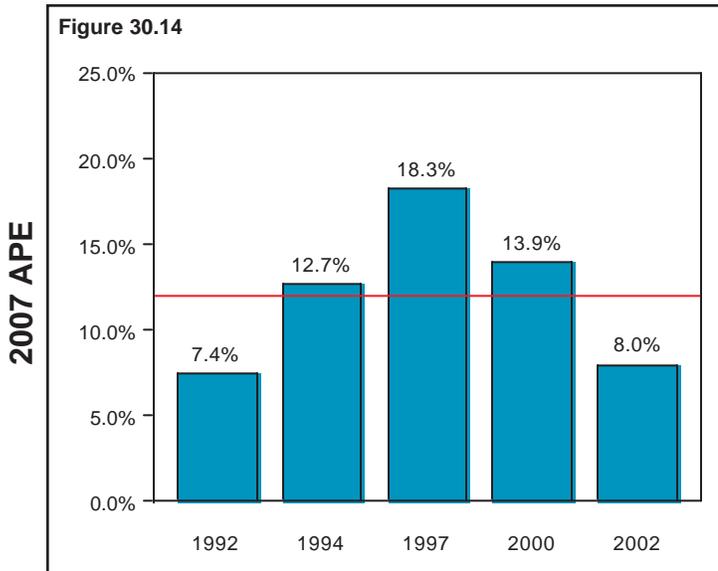
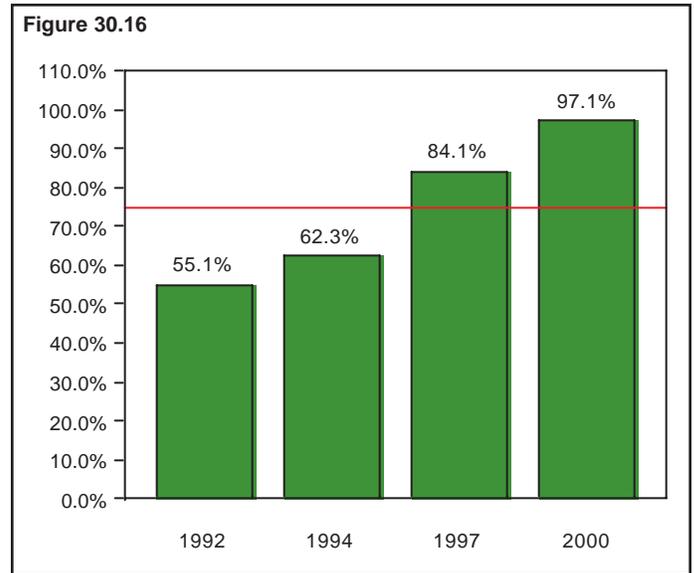
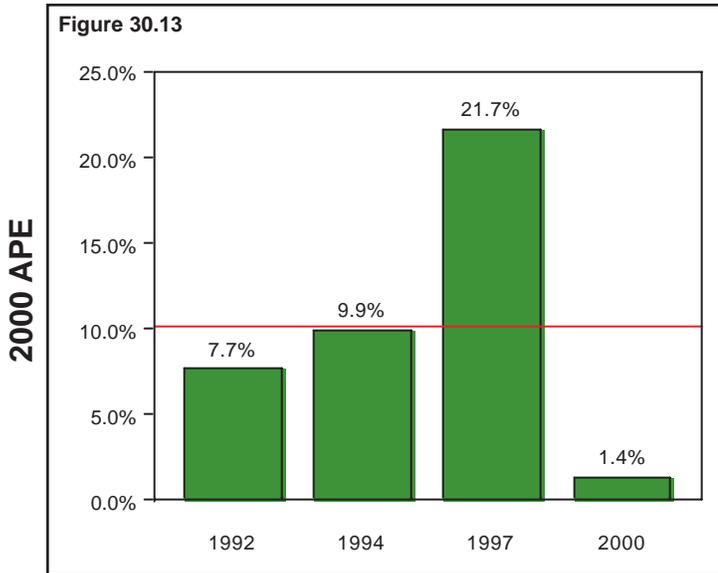
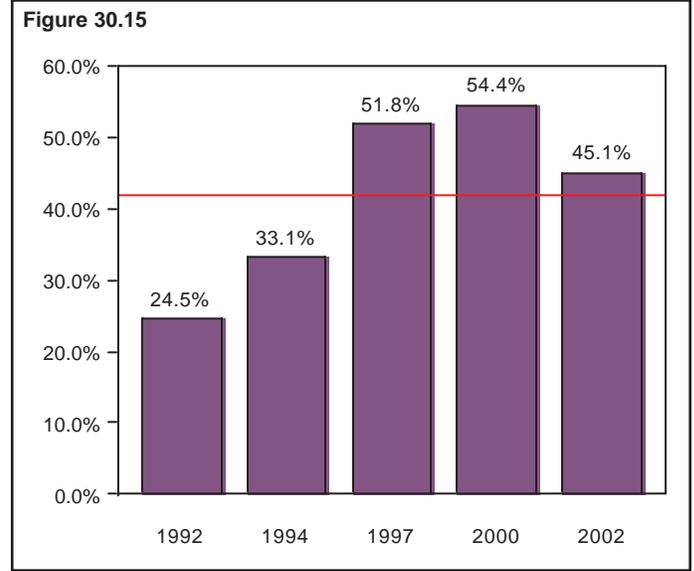
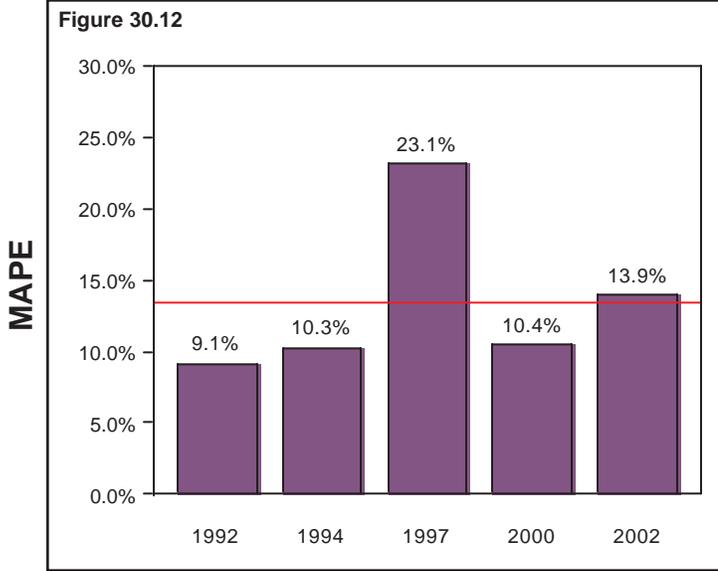


Figure 30.11



Births

Deaths



Tooele County

The 1986 baseline was the most accurate projection of the 2000 population with an absolute percent error of 0.3%. The 1984, 1997, and 2000 baselines were also close, all within a 2.8% error. The 1992 baseline was the least accurate projection of the 2000 population with an absolute percent error of 13.8%. The 1967 baseline, the oldest projection of the 2000 population, had an absolute percent error of 9.8%. The average absolute percent error of all baselines for the 2000 population projection was 16.9%.

Overall, the 1990 baseline was the most accurate population projection with a mean absolute percent error of 8.0%. The 1984 baseline was the least accurate population projection with a mean absolute percent error of 28.7%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 15.1%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 9.5%, compared to 19.6% and 563.7% for births and net migration, respectively.

Figure 31.1
Population Components

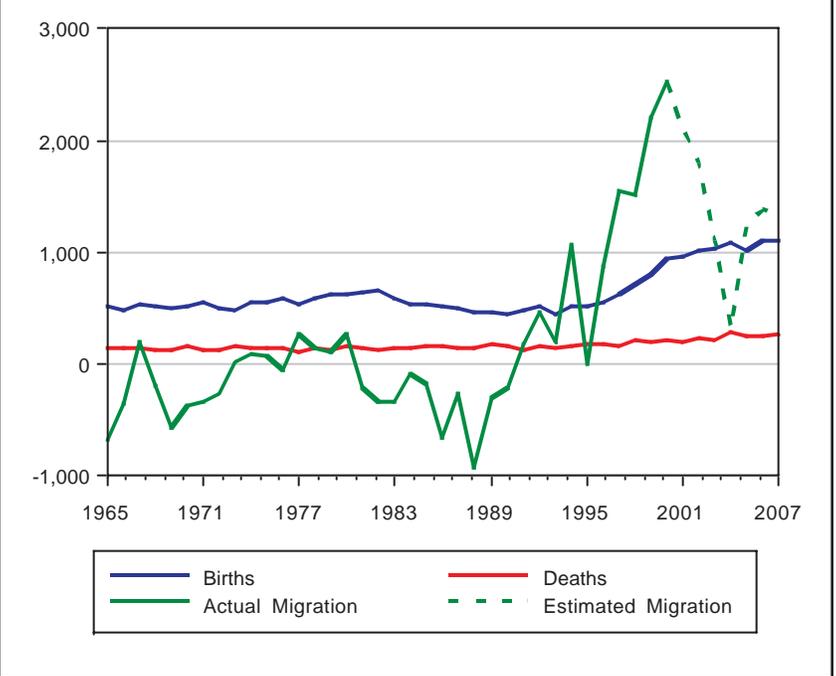
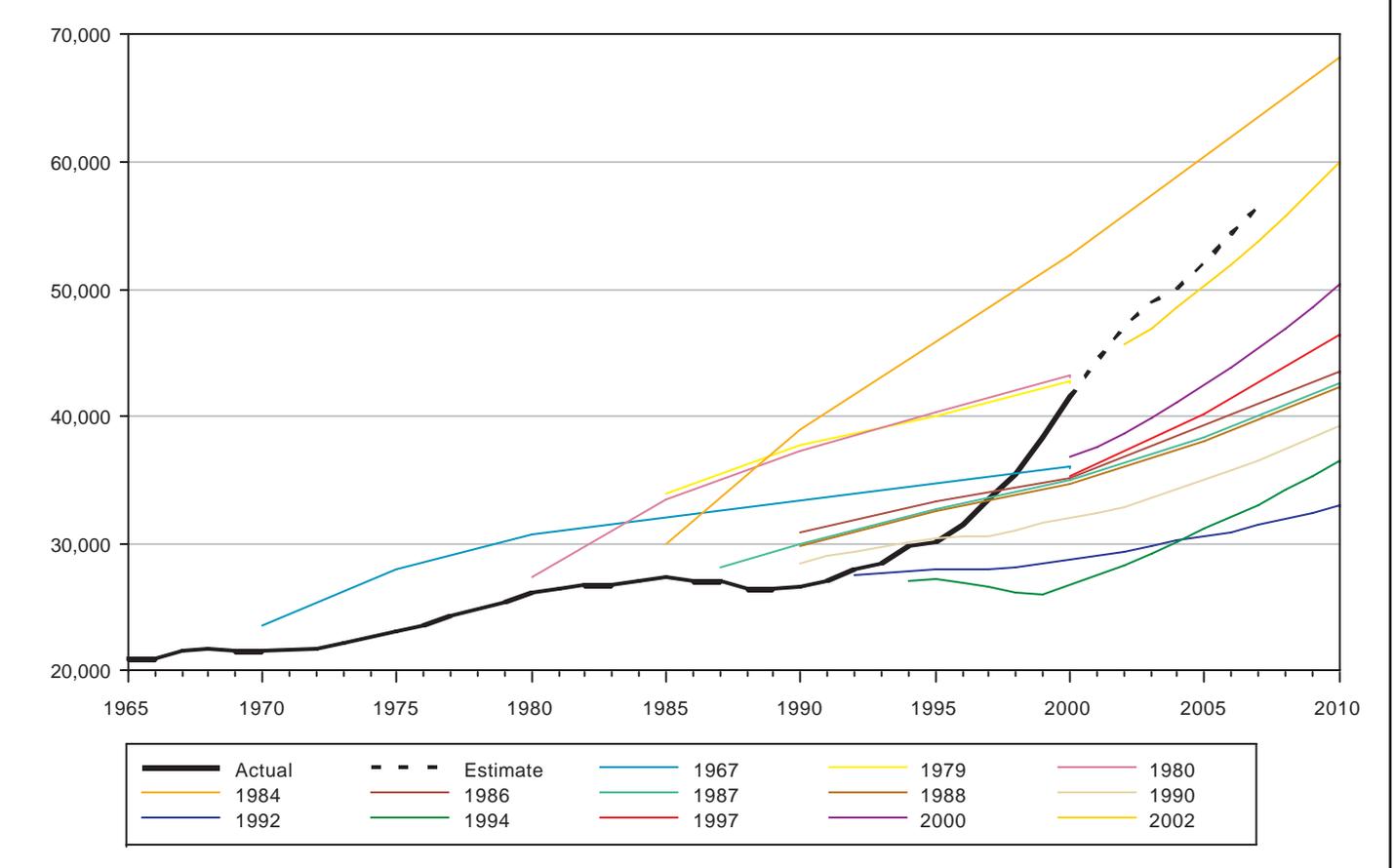
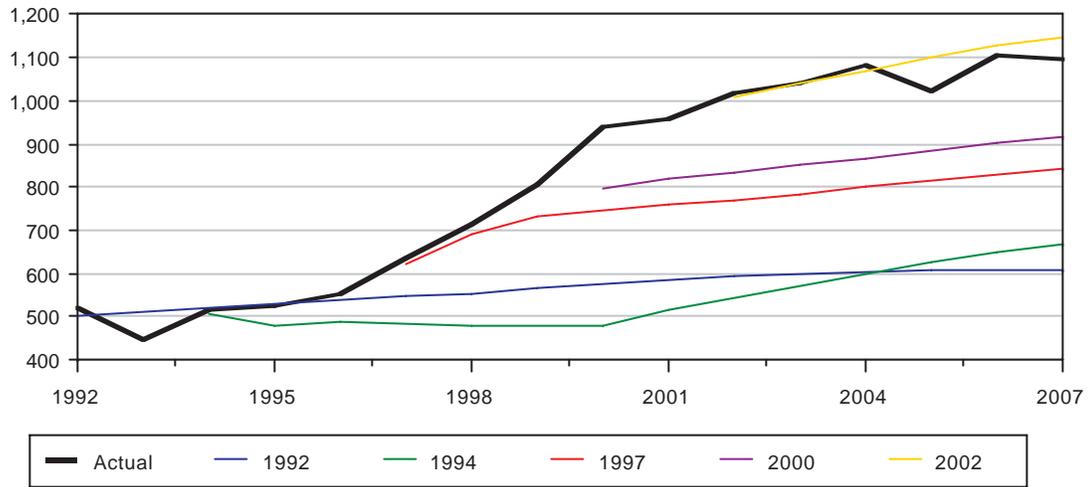


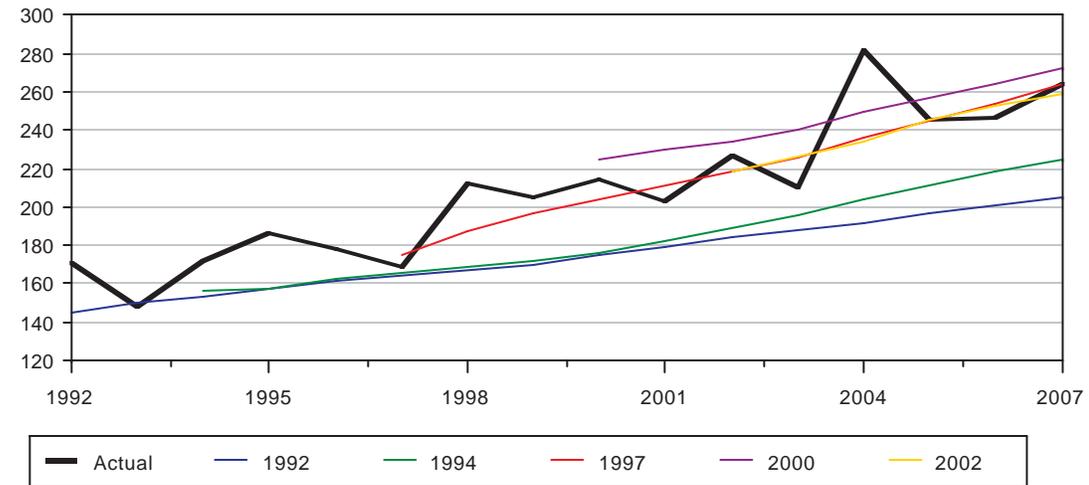
Figure 31.2
Population Projections



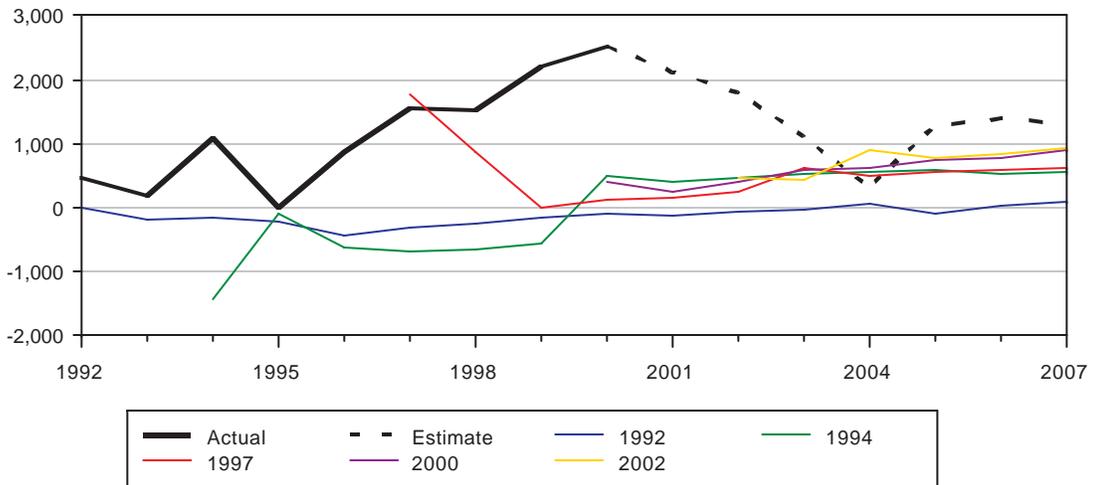
**Figure 31.3
Birth Projections**



**Figure 31.4
Death Projections**



**Figure 31.5
Migration Projections**



Population

Net Migration

Figure 31.6

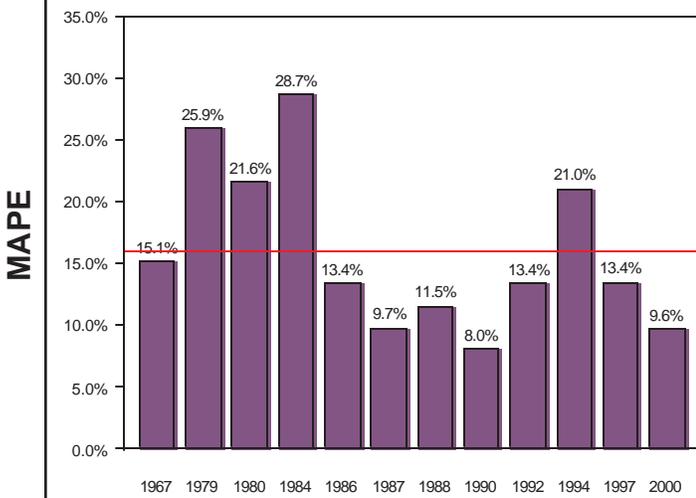


Figure 31.9

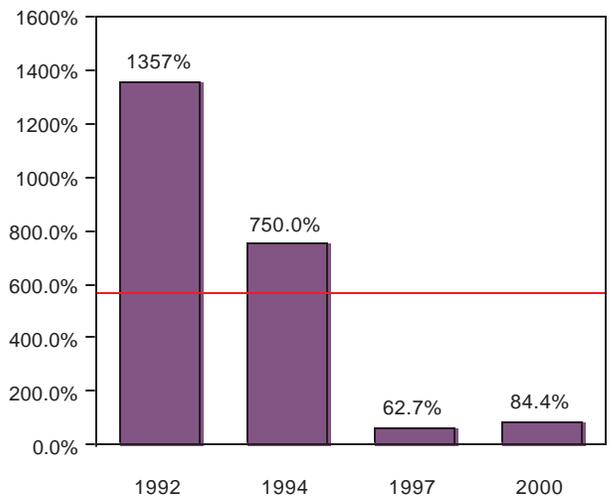


Figure 31.7

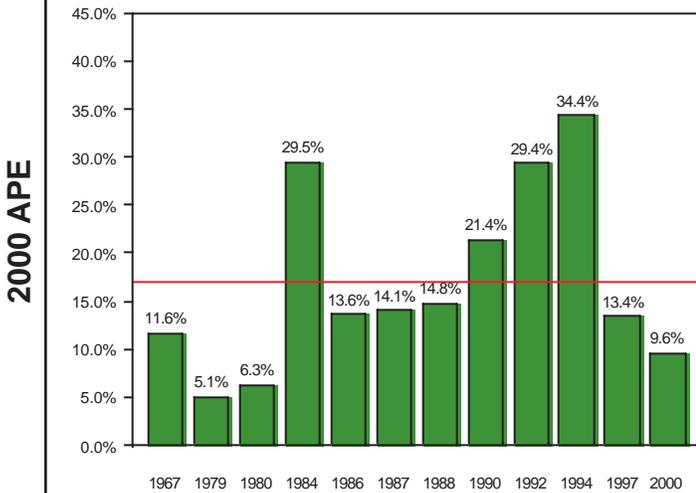


Figure 31.10

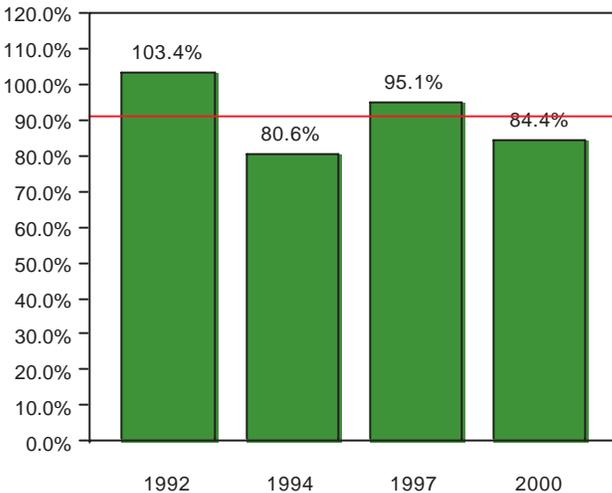


Figure 31.8

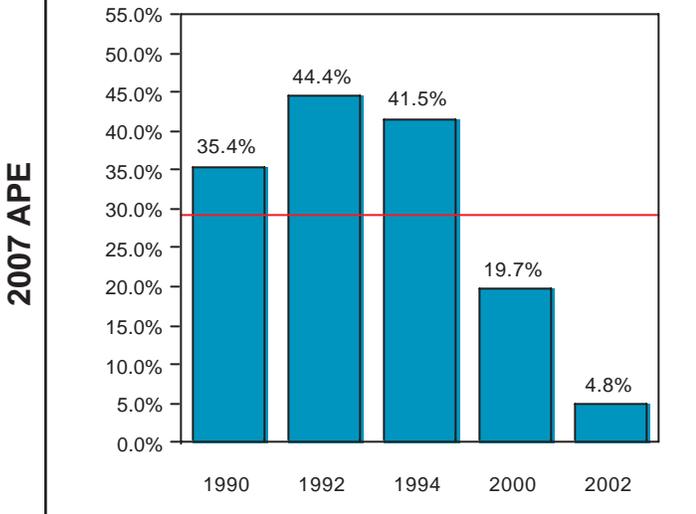
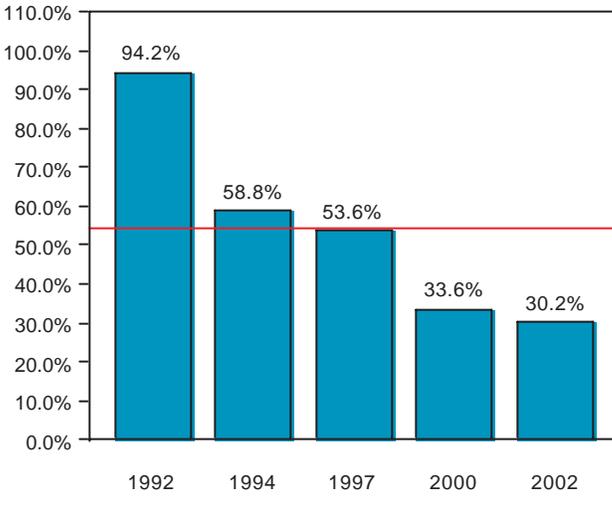


Figure 31.11



Births

Deaths

Figure 31.12

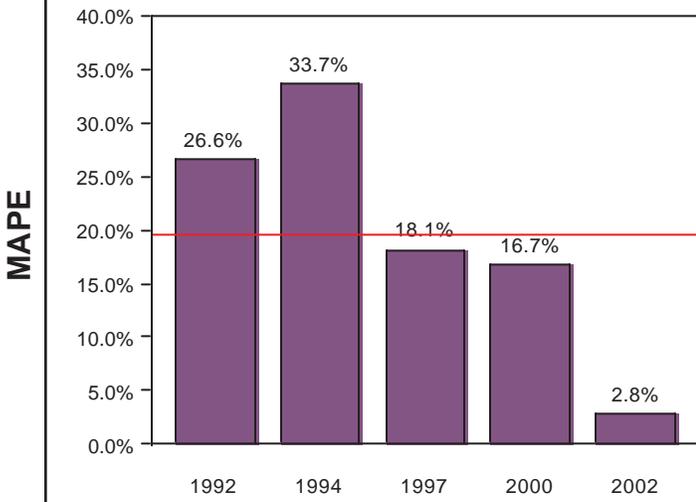


Figure 31.15

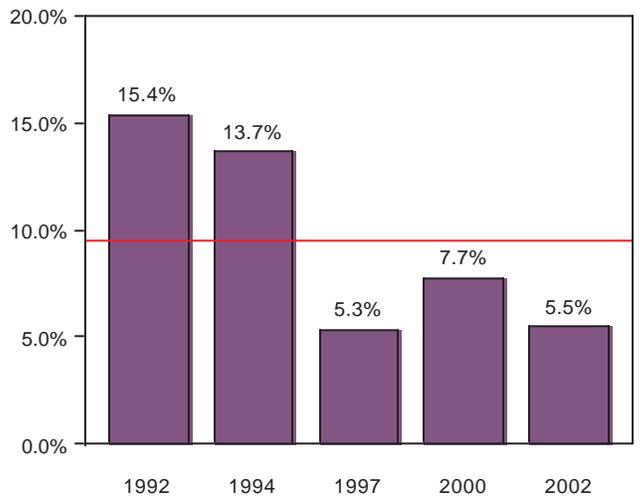


Figure 31.13

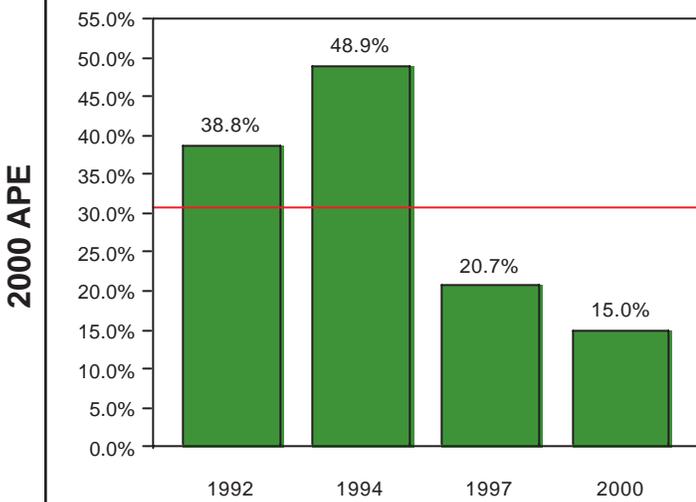


Figure 31.16

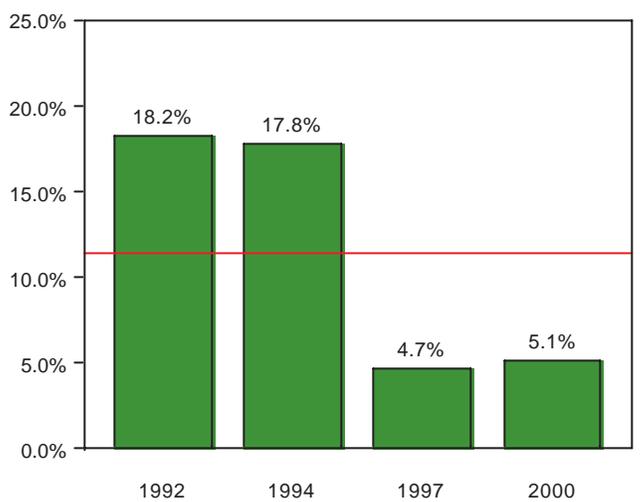


Figure 31.14

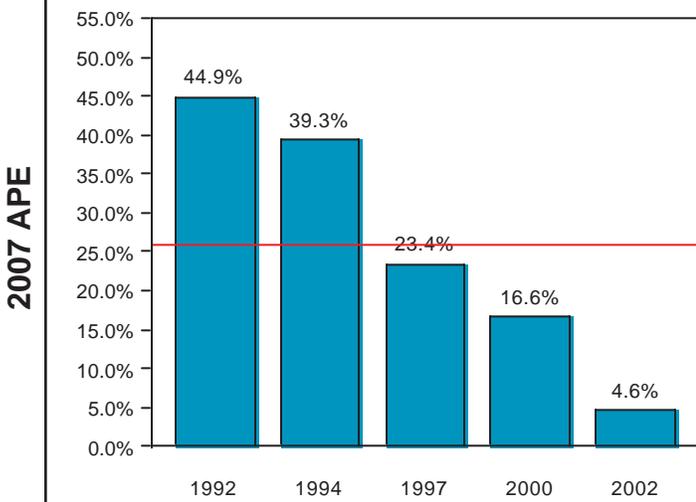
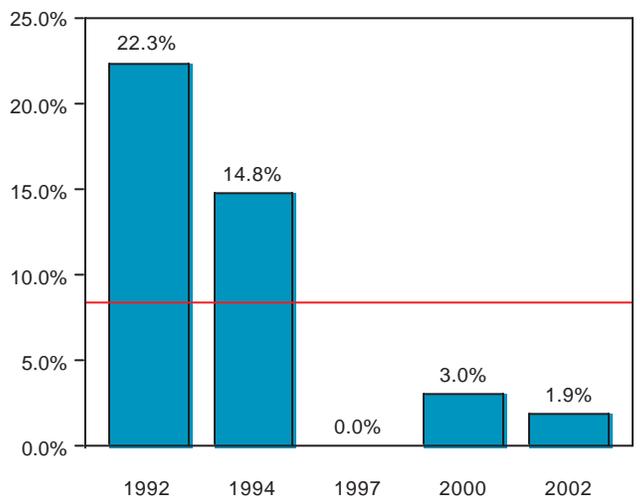


Figure 31.17



Uintah County

The 1994 baseline was the most accurate projection of the 2000 population with an absolute percent error of 0.3%. The 1967, 1987, 1988, 1997, and 2000 baselines were also close, all within a 1.1% error. The 1984 baseline was the least accurate projection of the 2000 population with an absolute percent error of 27.7%. The 1967 baseline, the oldest projection of the 2000 population, had an absolute percent error of 0.9%. The average absolute percent error of all baselines for the 2000 population projection was 8.2%.

Overall, the 2000 baseline was the most accurate population projection with a mean absolute percent error of 0.4%. The 1986 baseline was the least accurate population projection with a mean absolute percent error of 23.5%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 9.7%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 10.2%, compared to 12.4% and 583.8% for births and net migration, respectively.

Figure 32.1
Population Components

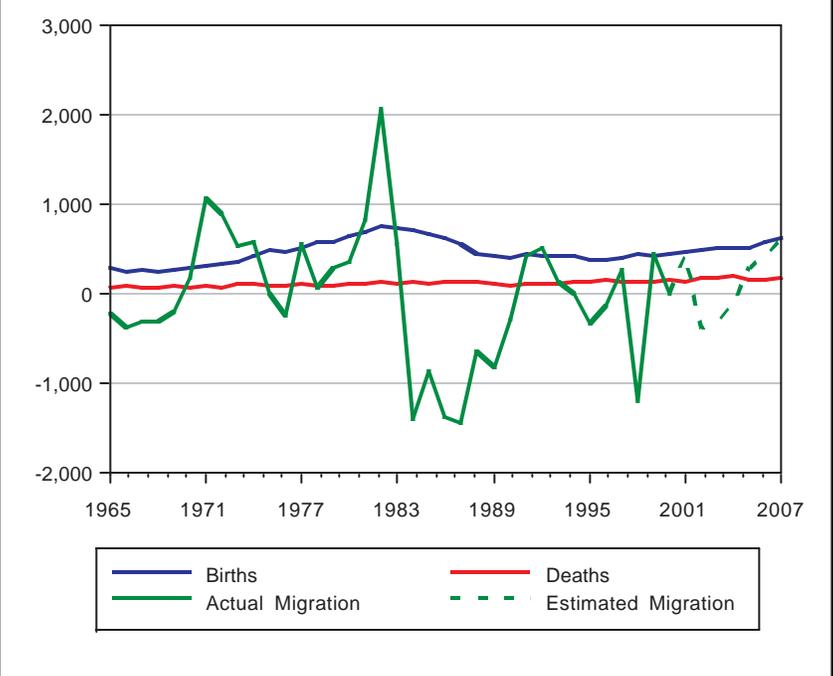
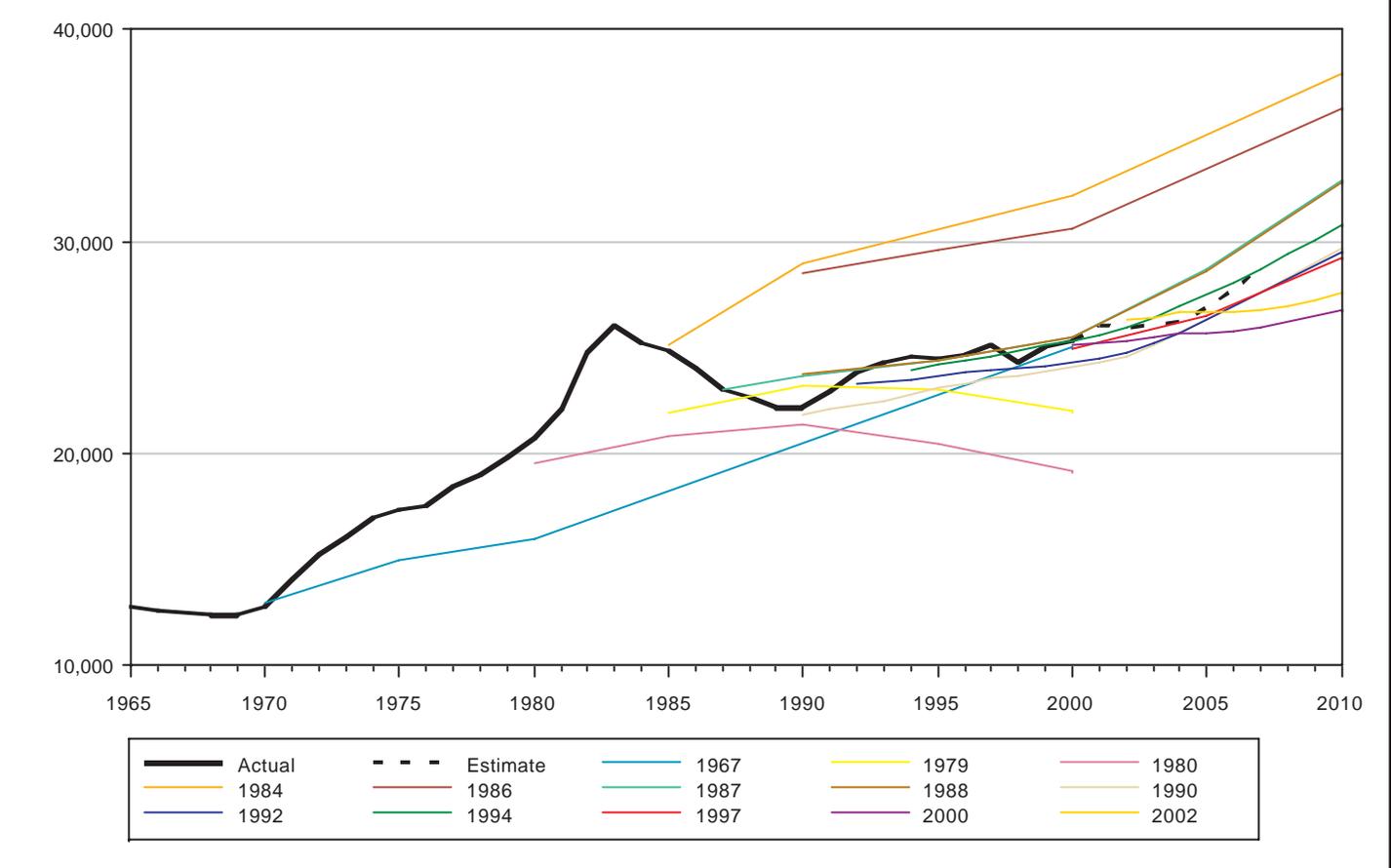
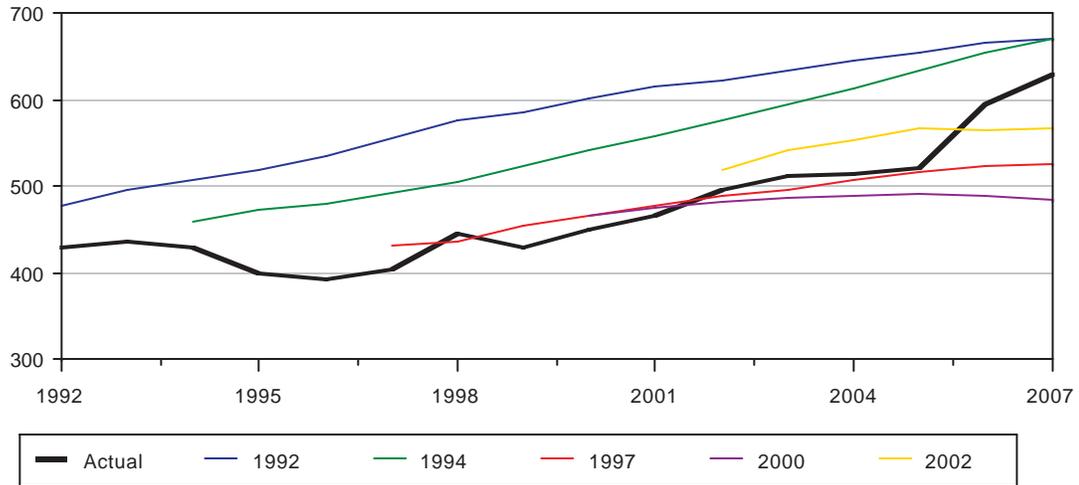


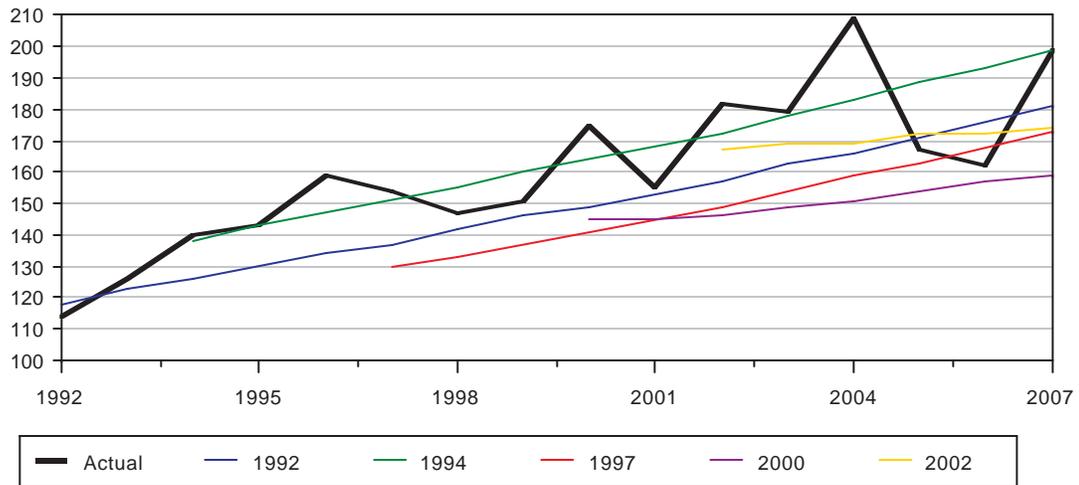
Figure 32.2
Population Projections



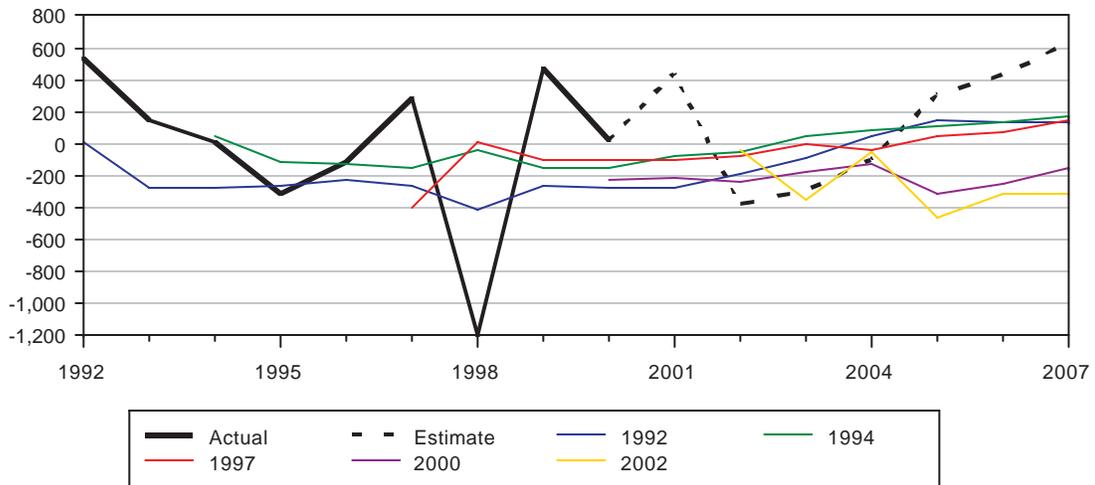
**Figure 32.3
Birth Projections**



**Figure 32.4
Death Projections**



**Figure 32.5
Migration Projections**



Population

Net Migration

Figure 32.6

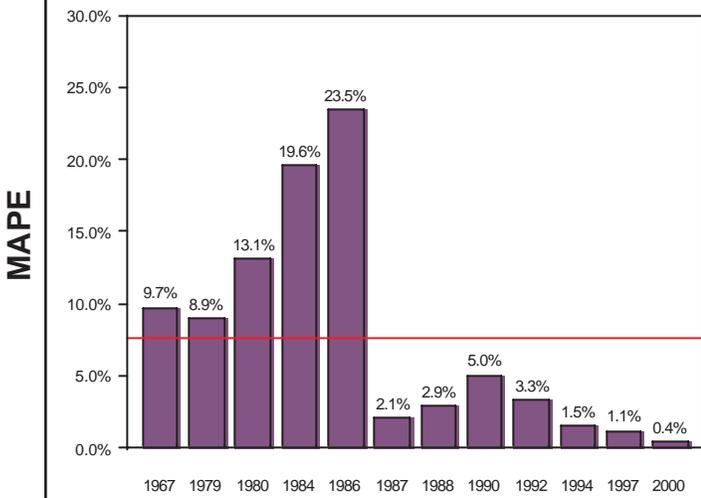


Figure 32.9

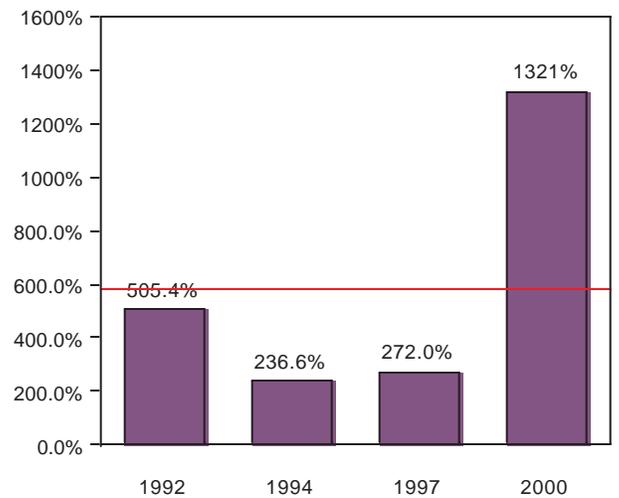


Figure 32.7

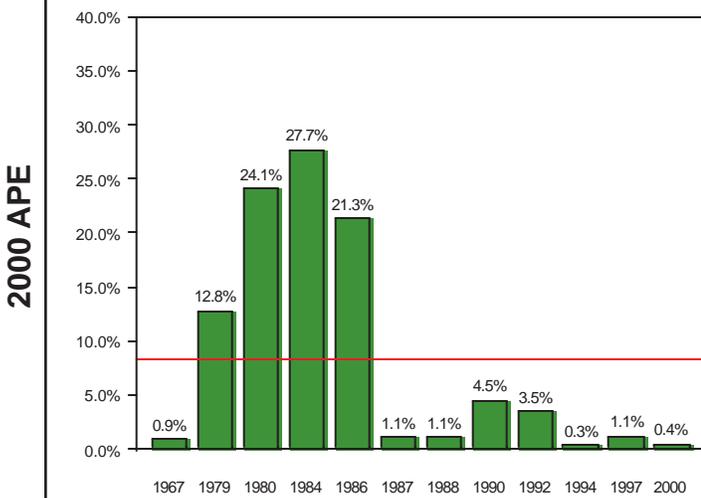


Figure 32.10

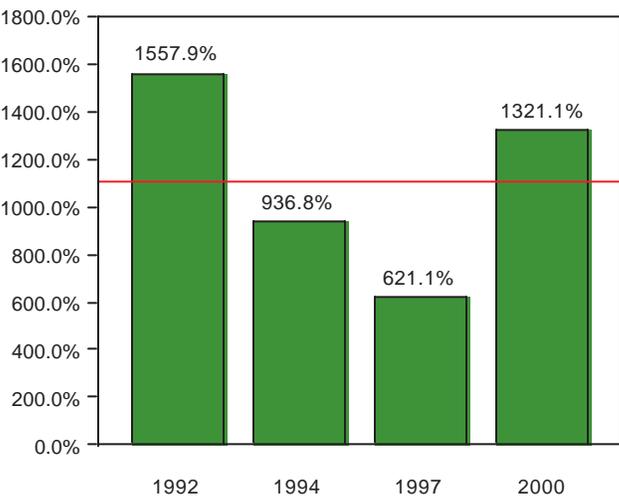


Figure 32.8

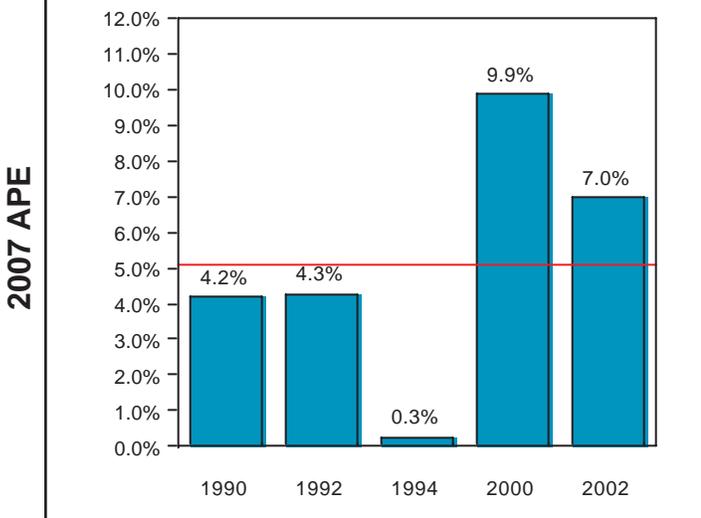
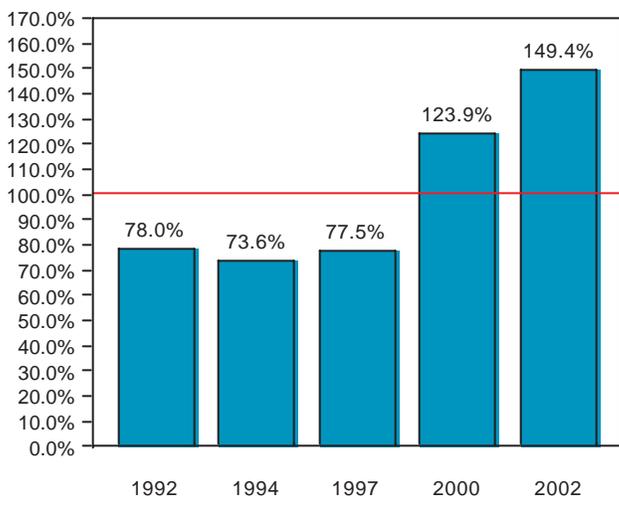


Figure 32.11



Births

Deaths

Figure 32.12

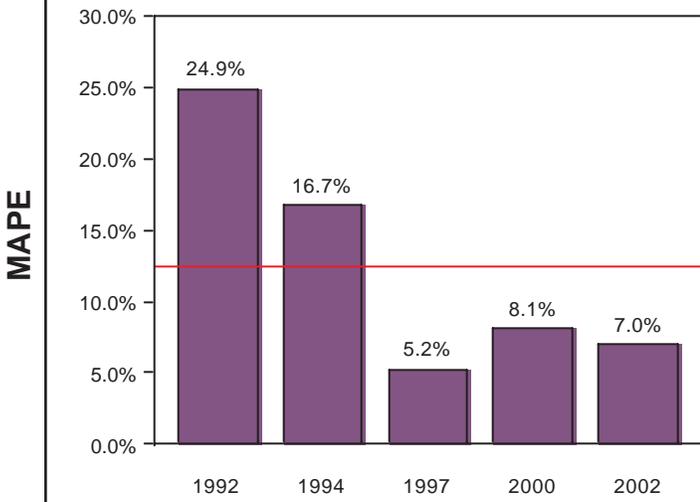


Figure 32.15

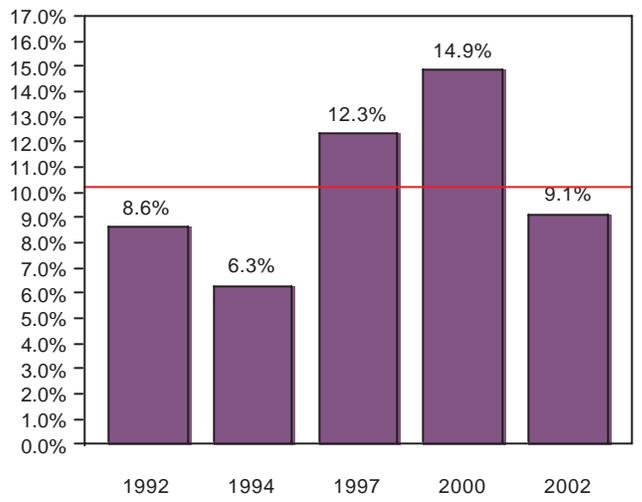


Figure 32.13

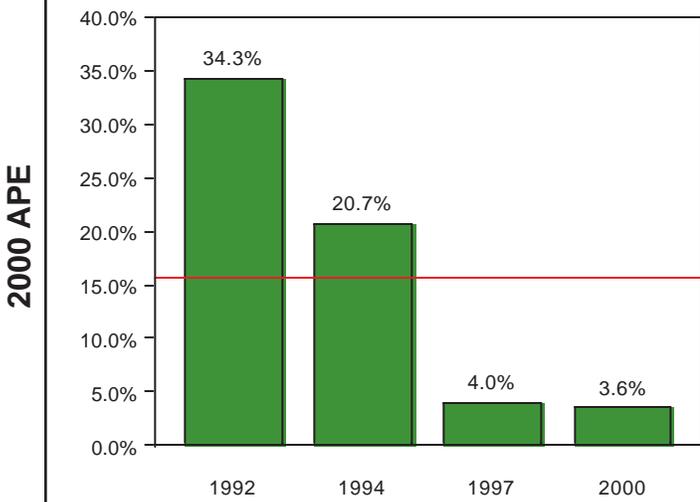


Figure 32.16

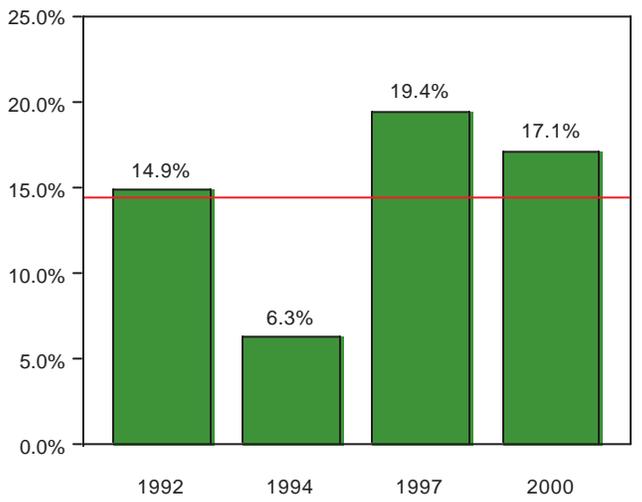


Figure 32.14

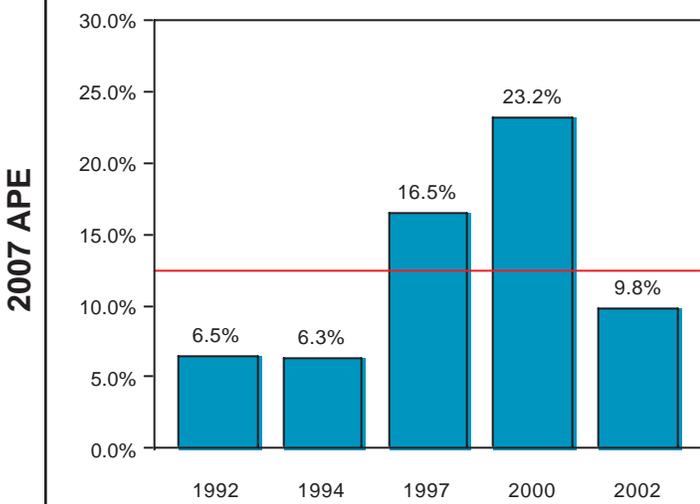
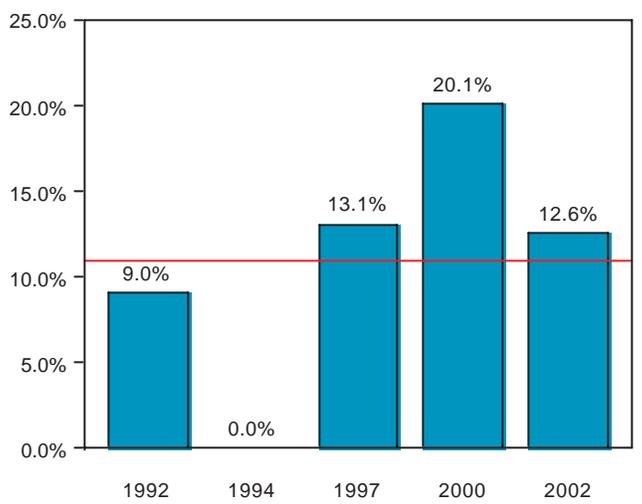


Figure 32.17



Utah County

The 2000 baseline was the most accurate projection of the 2000 population with an absolute percent error of 2.0%. The 1994 and 1997 baselines were also close, both within a 7.5% error. The 1967 baseline, the oldest projection of the 2000 population, was the least accurate projection with an absolute percent error of 34.0%. The average absolute percent error of all baselines for the 2000 population projection was 16.1%.

Overall, the 2000 baseline was the most accurate population projection with a mean absolute percent error of 2.0%. The 1967 baseline, the oldest projection, was the least accurate population projection with a mean absolute percent error of 16.9%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 4.1%, compared to 13.6% and 109.6% for births and net migration, respectively.

Figure 33.1
Population Components

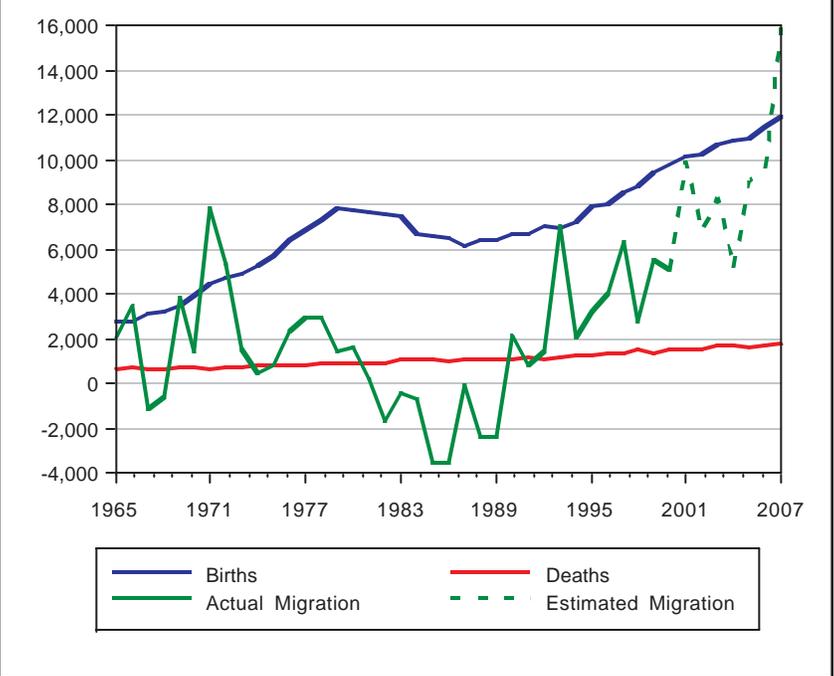
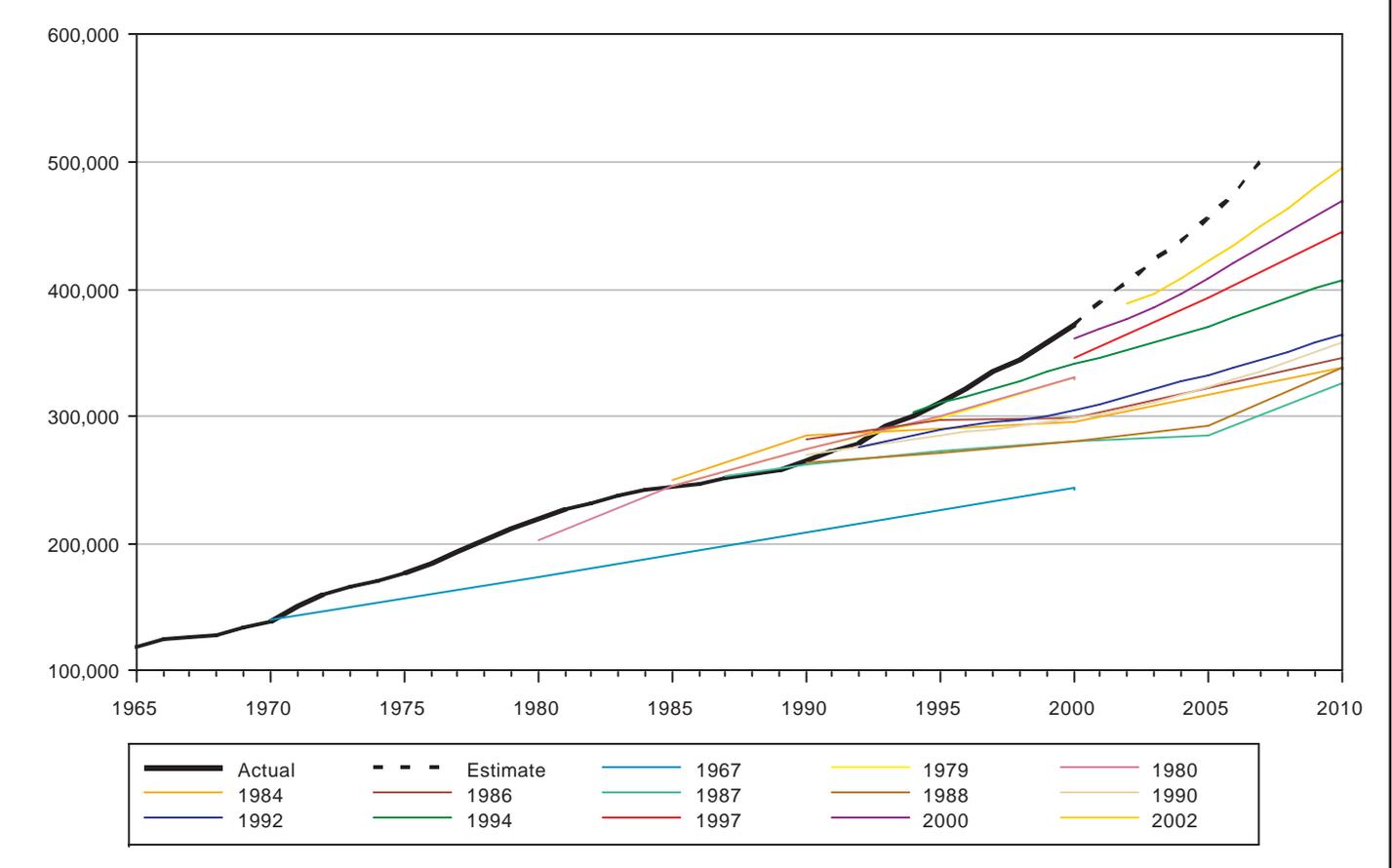
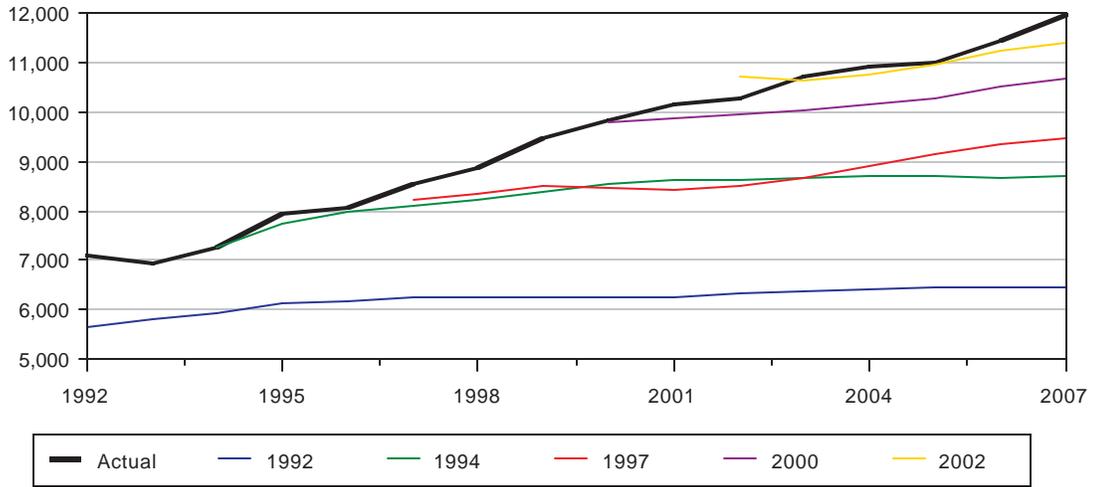


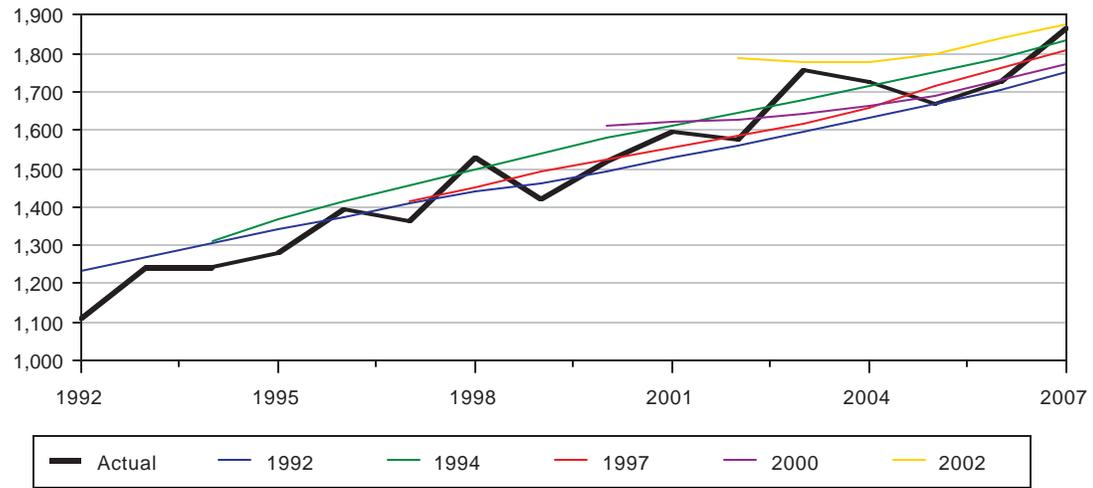
Figure 33.2
Population Projections



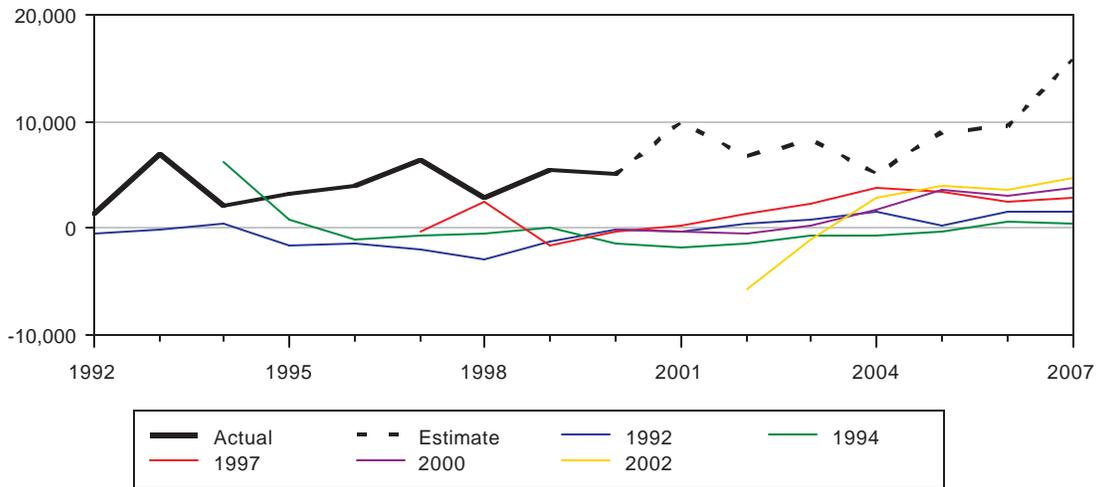
**Figure 33.3
Birth Projections**



**Figure 33.4
Death Projections**



**Figure 33.5
Migration Projections**



Population

Net Migration

Figure 33.6

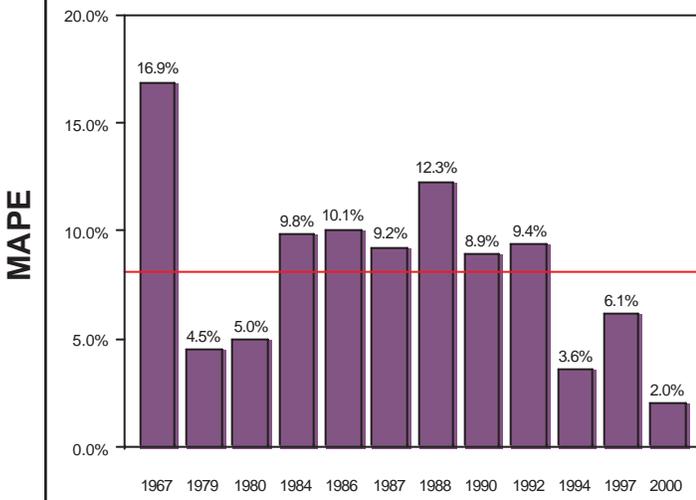


Figure 33.9

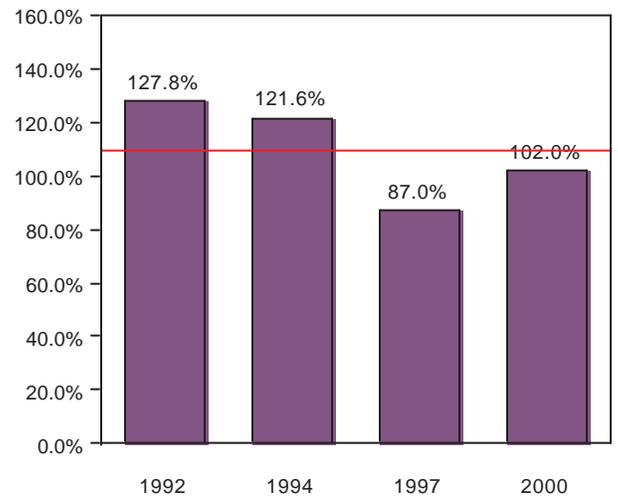


Figure 33.7

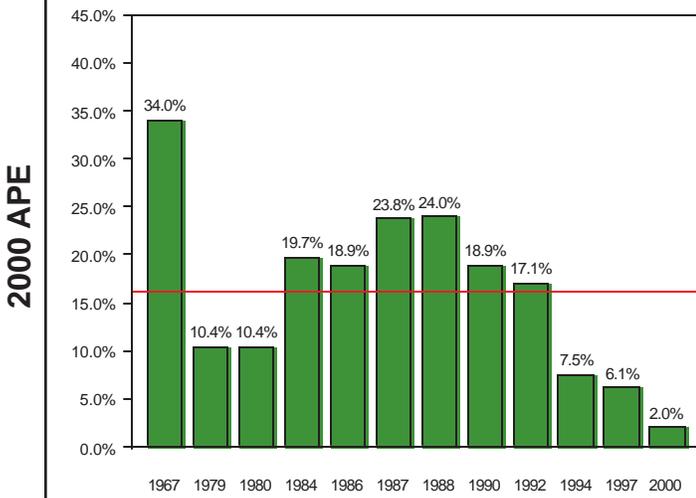


Figure 33.10

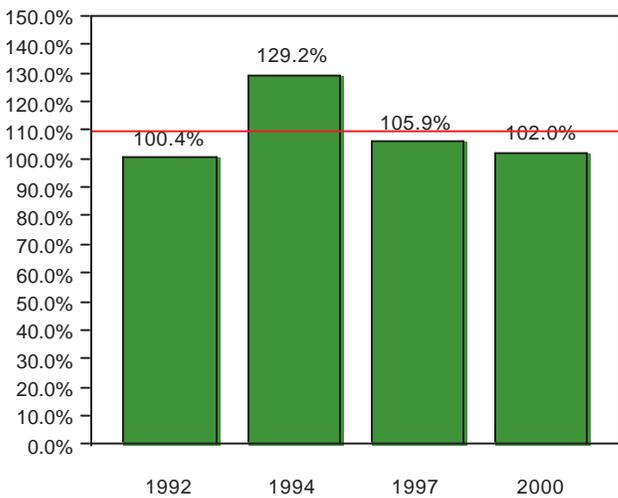


Figure 33.8

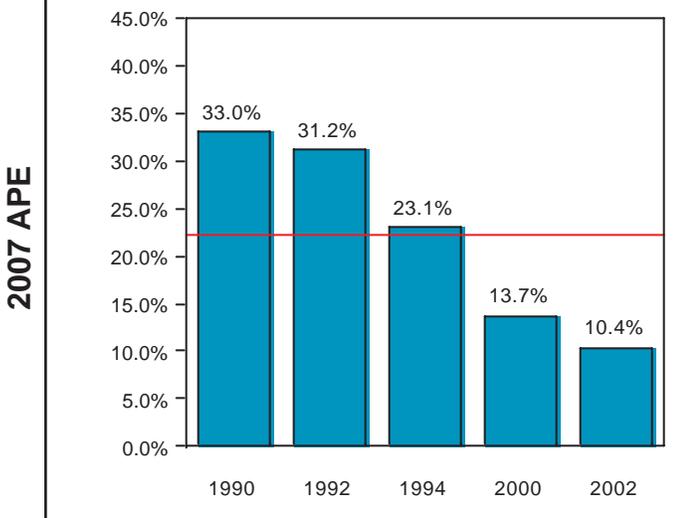
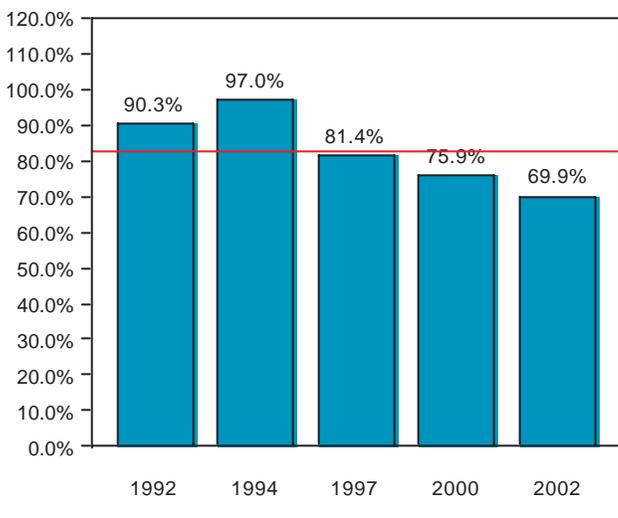


Figure 33.11



Births

Deaths

Figure 33.12

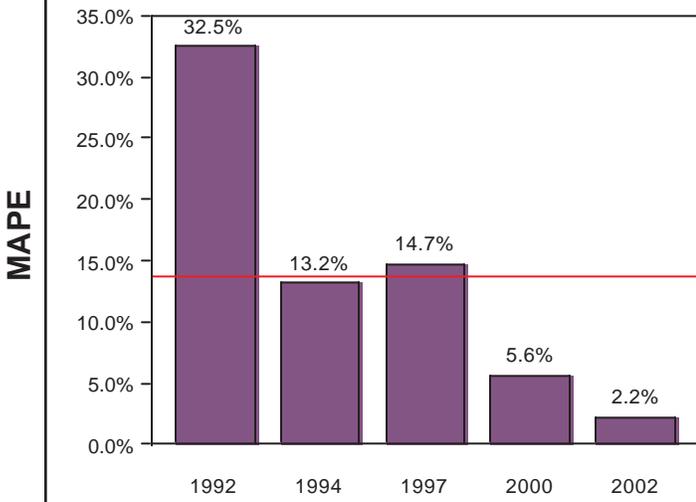


Figure 33.15

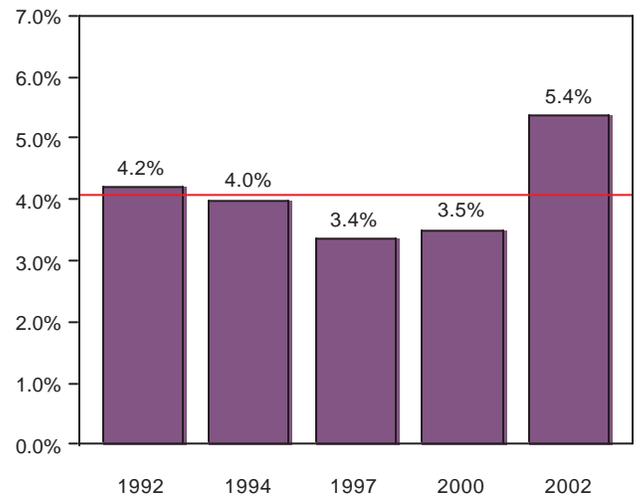


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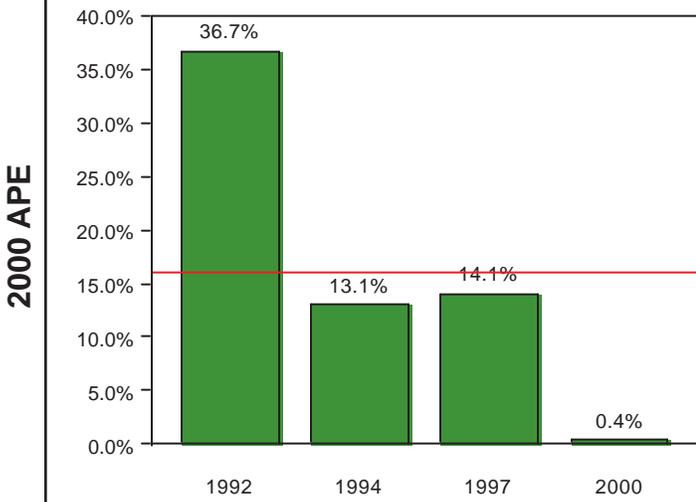


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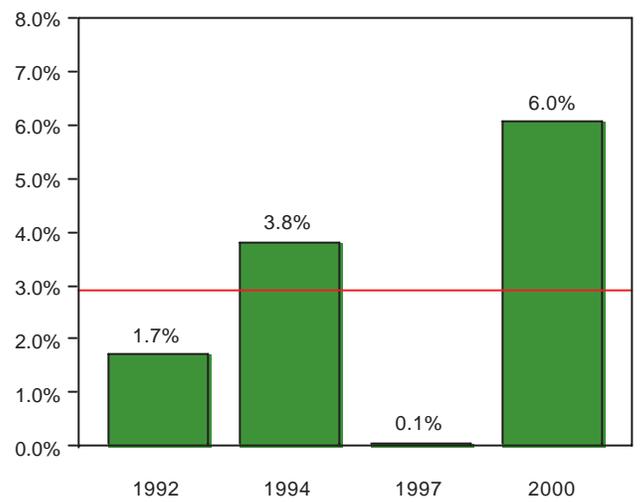


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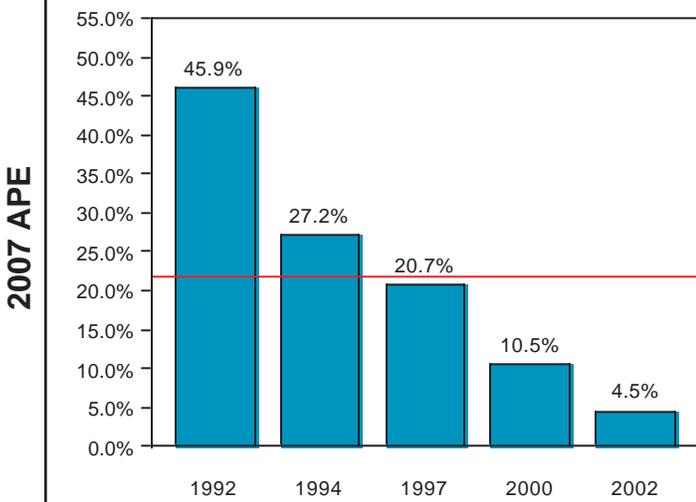
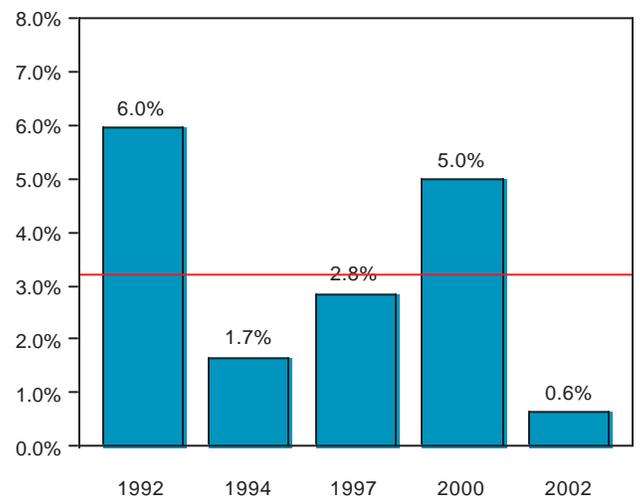


Figure 33.17



Wasatch County

The 1997 baseline was the most accurate projection of the 2000 population with an absolute percent error of 5.2%. The 1994 and 2000 baselines were also close, both within a 13.1% error. The 1967 baseline, the oldest projection of the 2000 population, was the least accurate projection of the 2000 population with an absolute percent error of 47.4%. The average absolute percent error of all baselines for the 2000 population projection was 22.8%.

Overall, the 1997 baseline was the most accurate population projection with a mean absolute percent error of 5.2%. The 1967 baseline, the oldest projection, was the least accurate population projection with a mean absolute percent error of 22.2%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 9.3%, compared to 15.5% and 91.9% for births and net migration, respectively.

Figure 34.1
Population Components

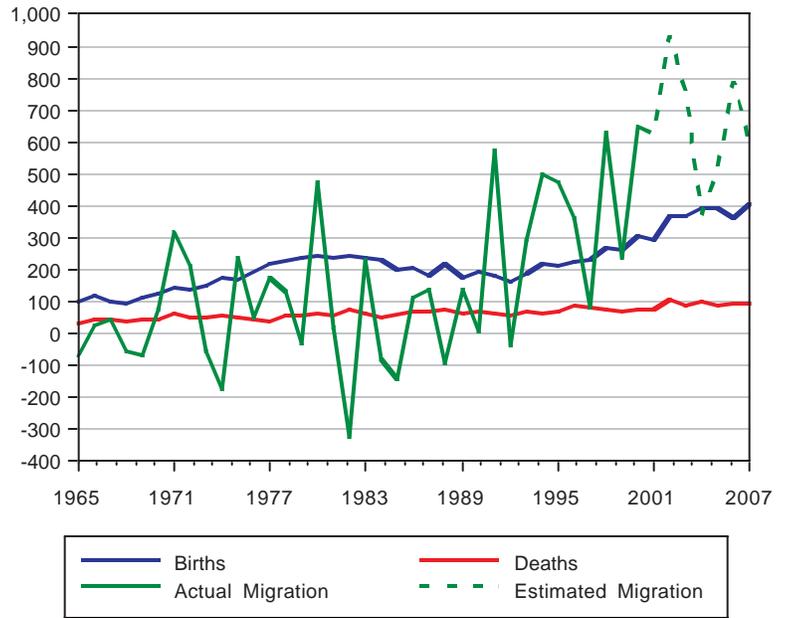


Figure 34.2
Population Projections

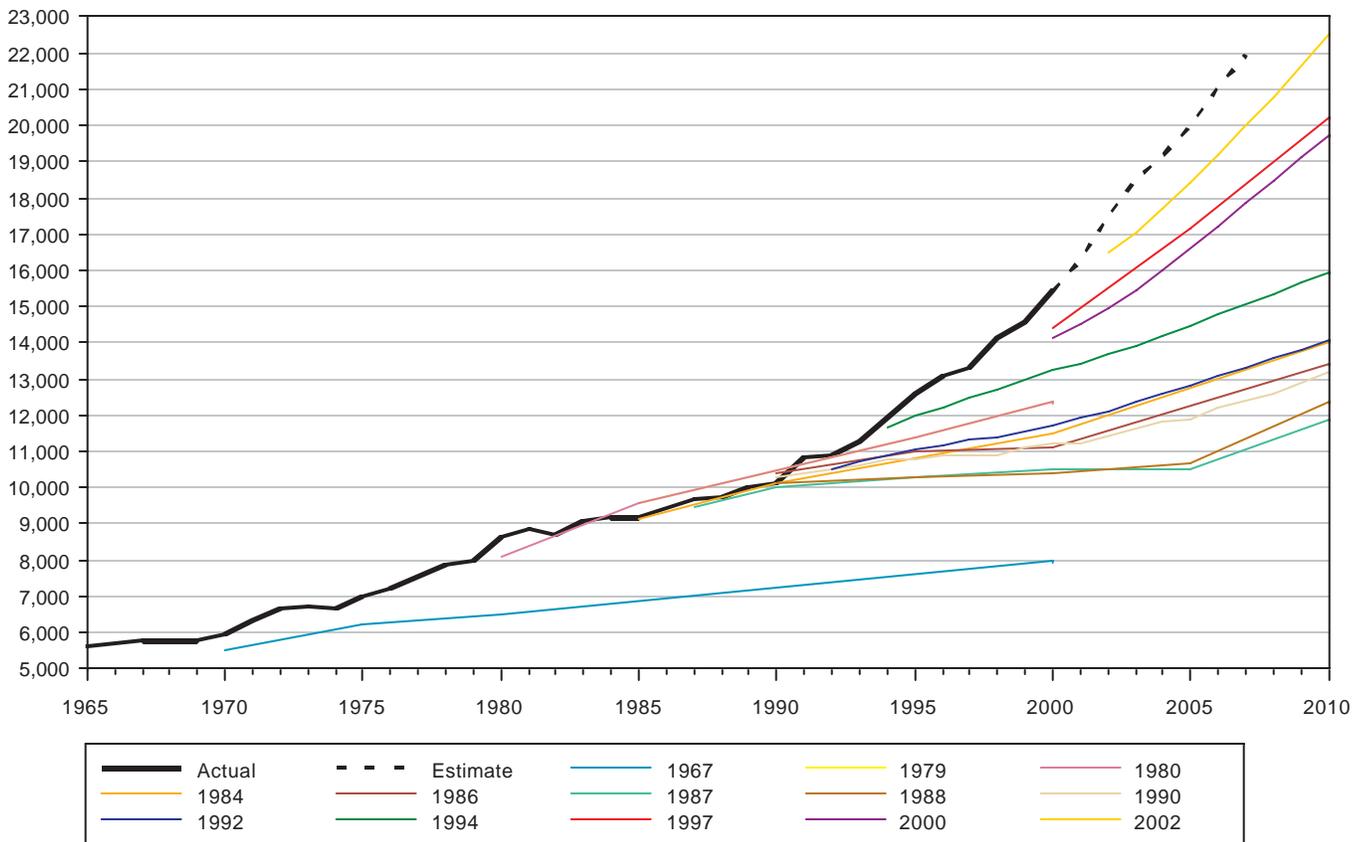


Figure 34.3
Birth Projections

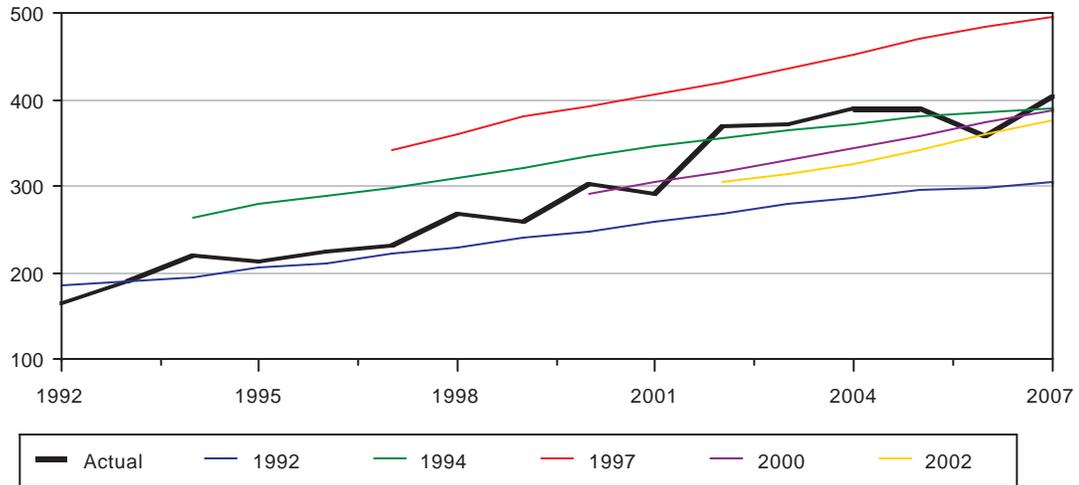


Figure 34.4
Death Projections

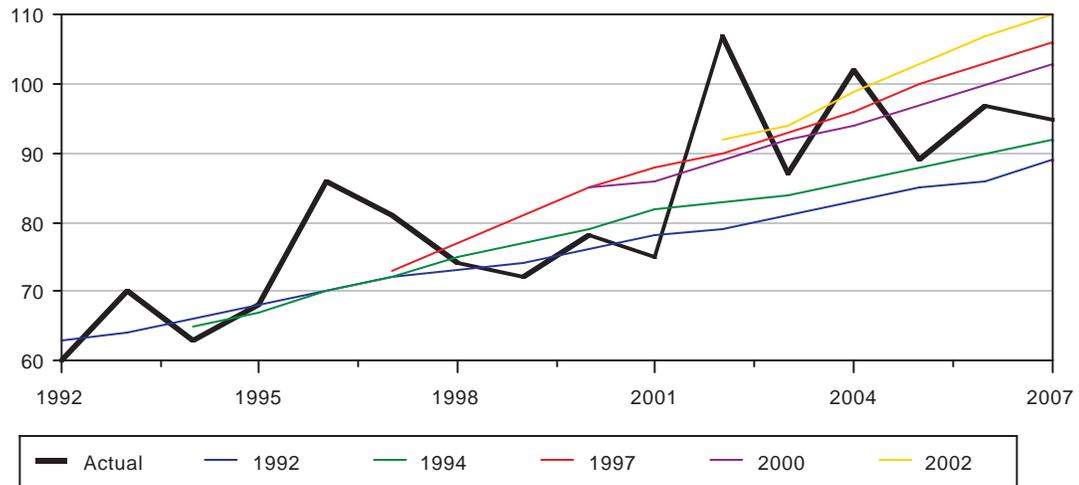
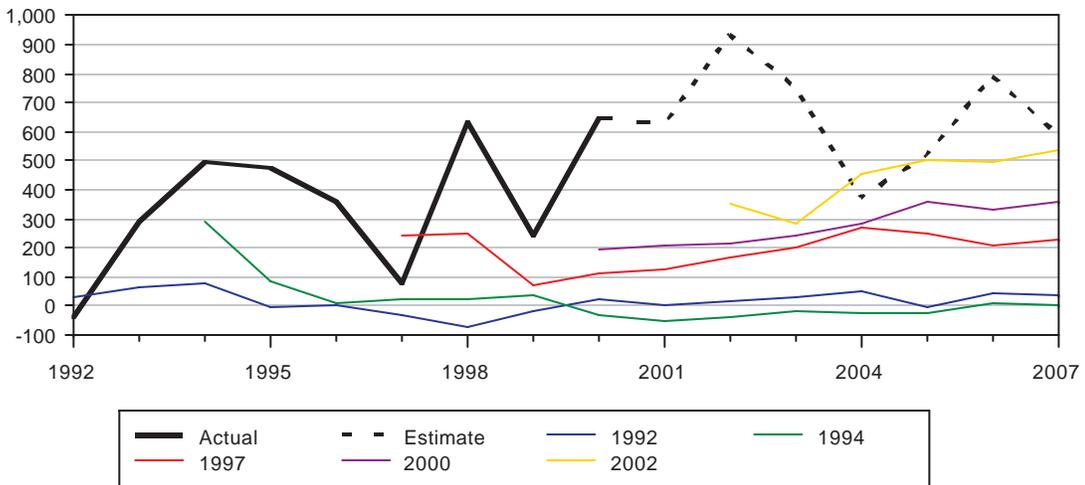


Figure 34.5
Migration Projections



Population

Net Migration

Figure 34.6

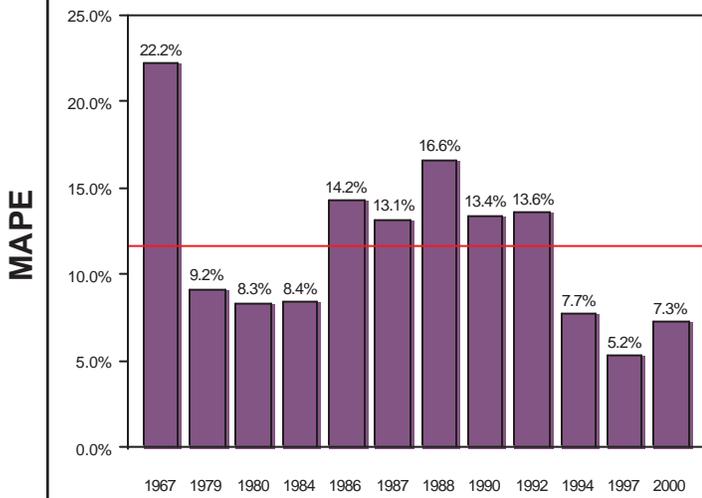


Figure 34.9

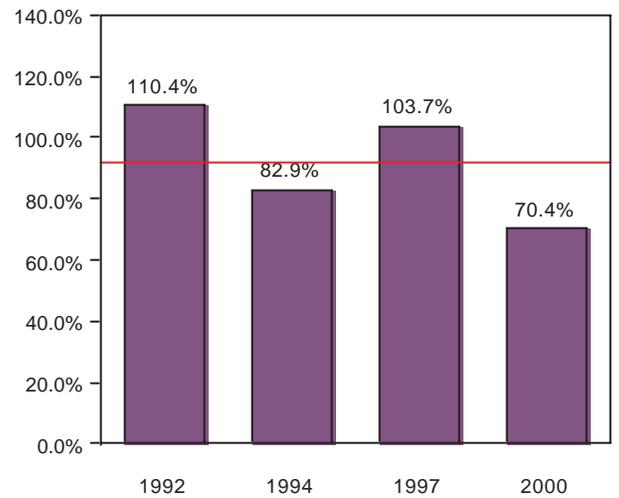


Figure 34.7

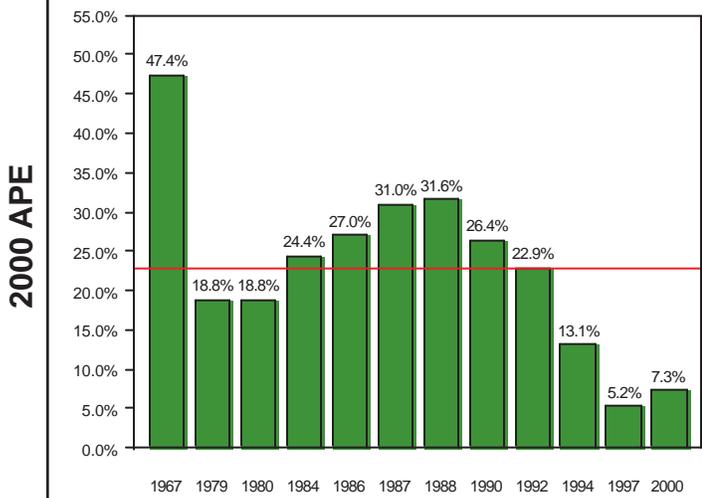


Figure 34.10

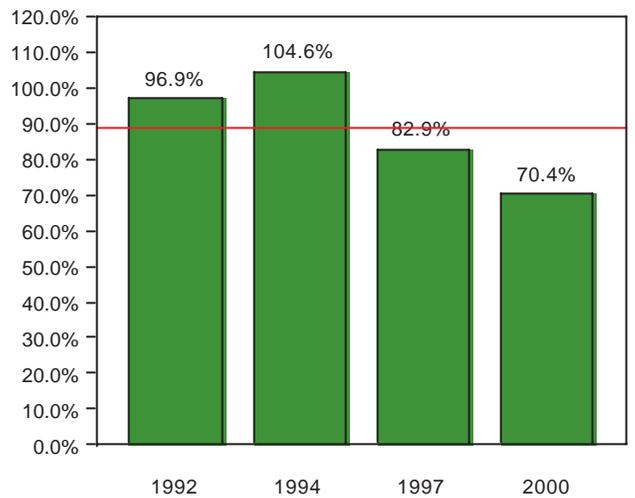


Figure 34.8

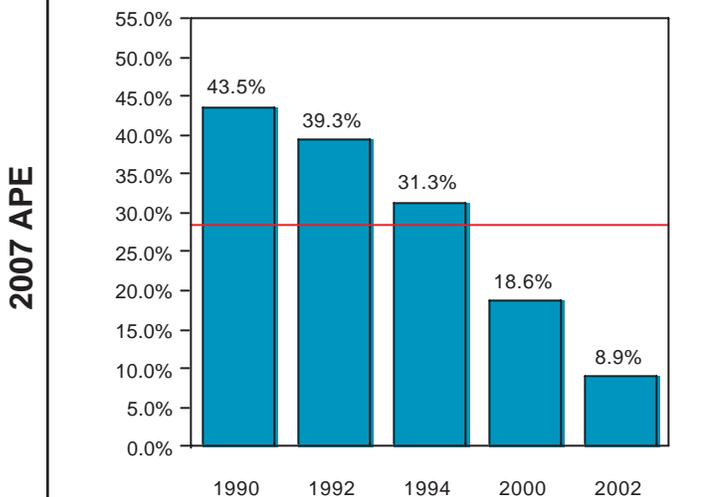
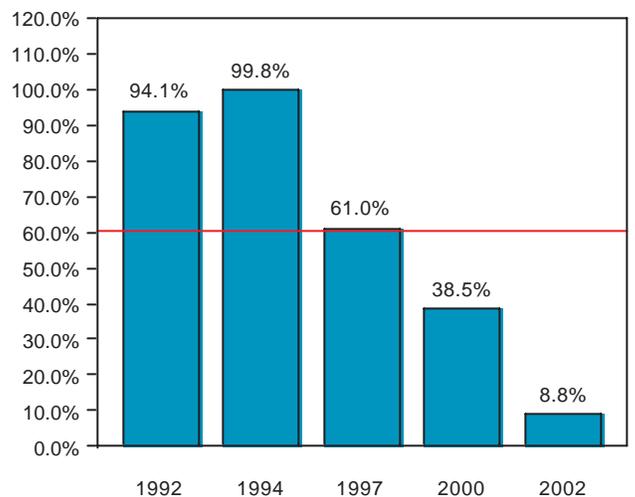


Figure 34.11



Births

Deaths

Figure 34.12

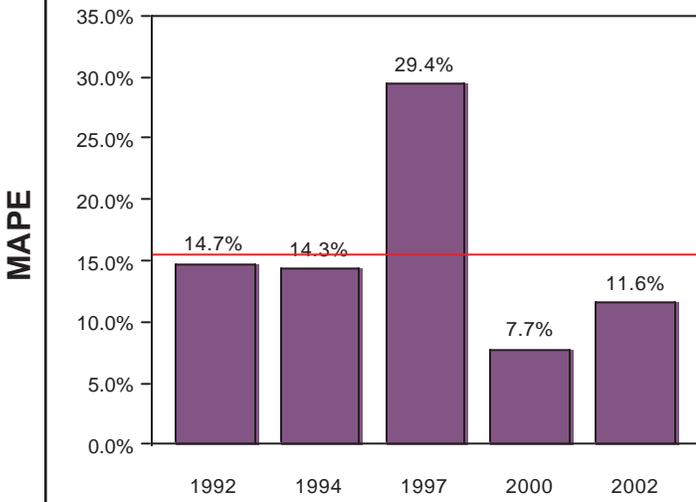


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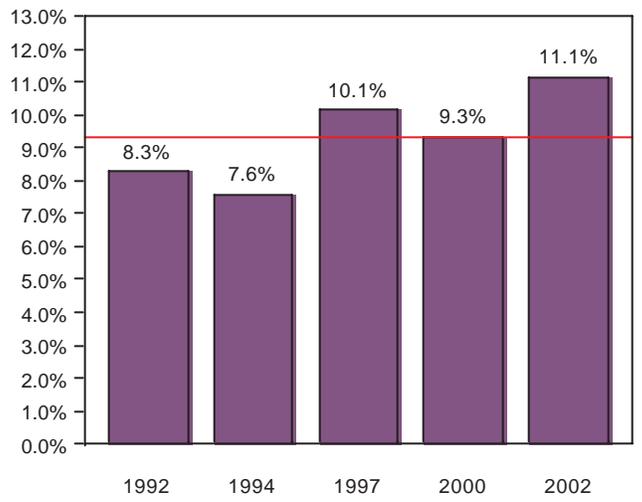


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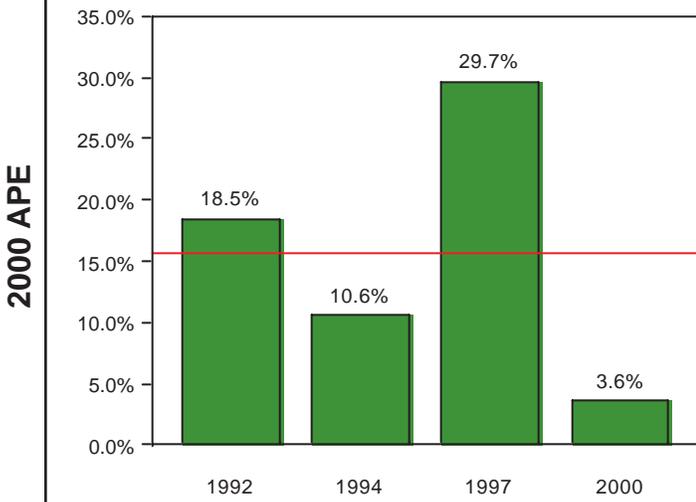


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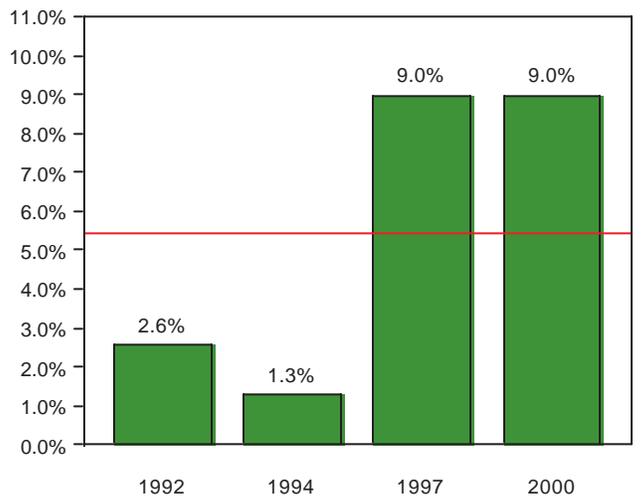


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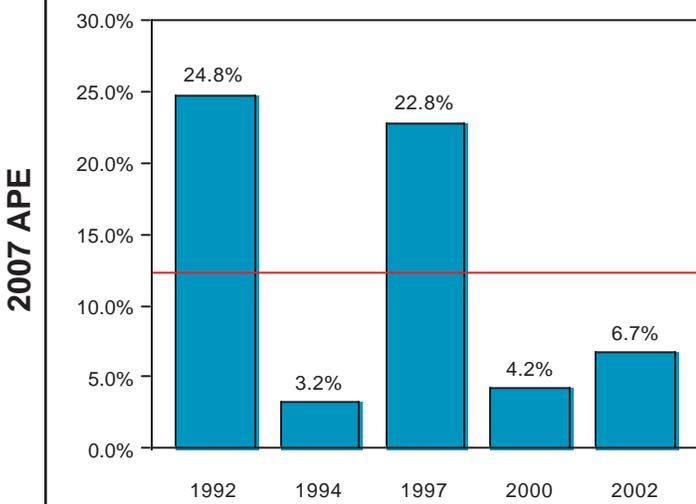
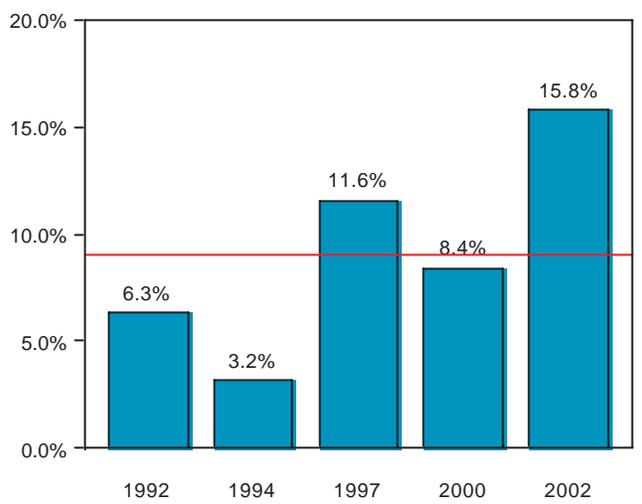


Figure 34.17



Washington County

The 1997 baseline was the most accurate projection of the 2000 population with an absolute percent error of 4.6%. The 1994 and 2000 baselines were also close, both within an 8.8% error. The 1967 baseline, the oldest projection of the 2000 population, was the least accurate projection with an absolute percent error of 84.5%. The average absolute percent error of all baselines for the 2000 population projection was 38.1%.

Overall, the 1997 baseline was the most accurate population projection with a mean absolute percent error of 4.6%. The 1967 baseline, the oldest projection, was the least accurate population projection with a mean absolute percent error of 49.9%.

Of the components of population change, projections for births were most accurate with an overall mean absolute percent error for all baselines of 8.7%, compared to 14.1% and 35.1% for deaths and net migration, respectively.

Figure 35.1
Population Components

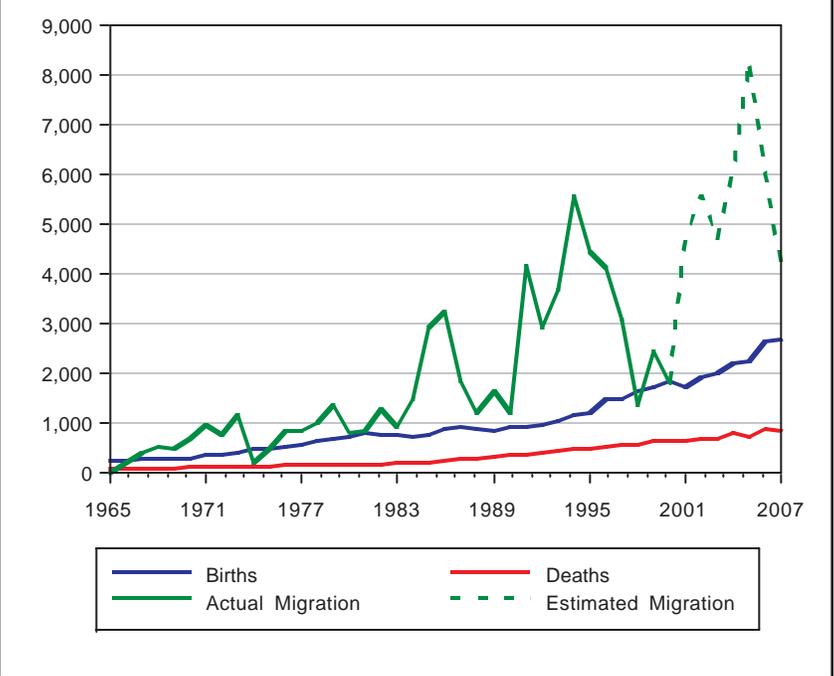
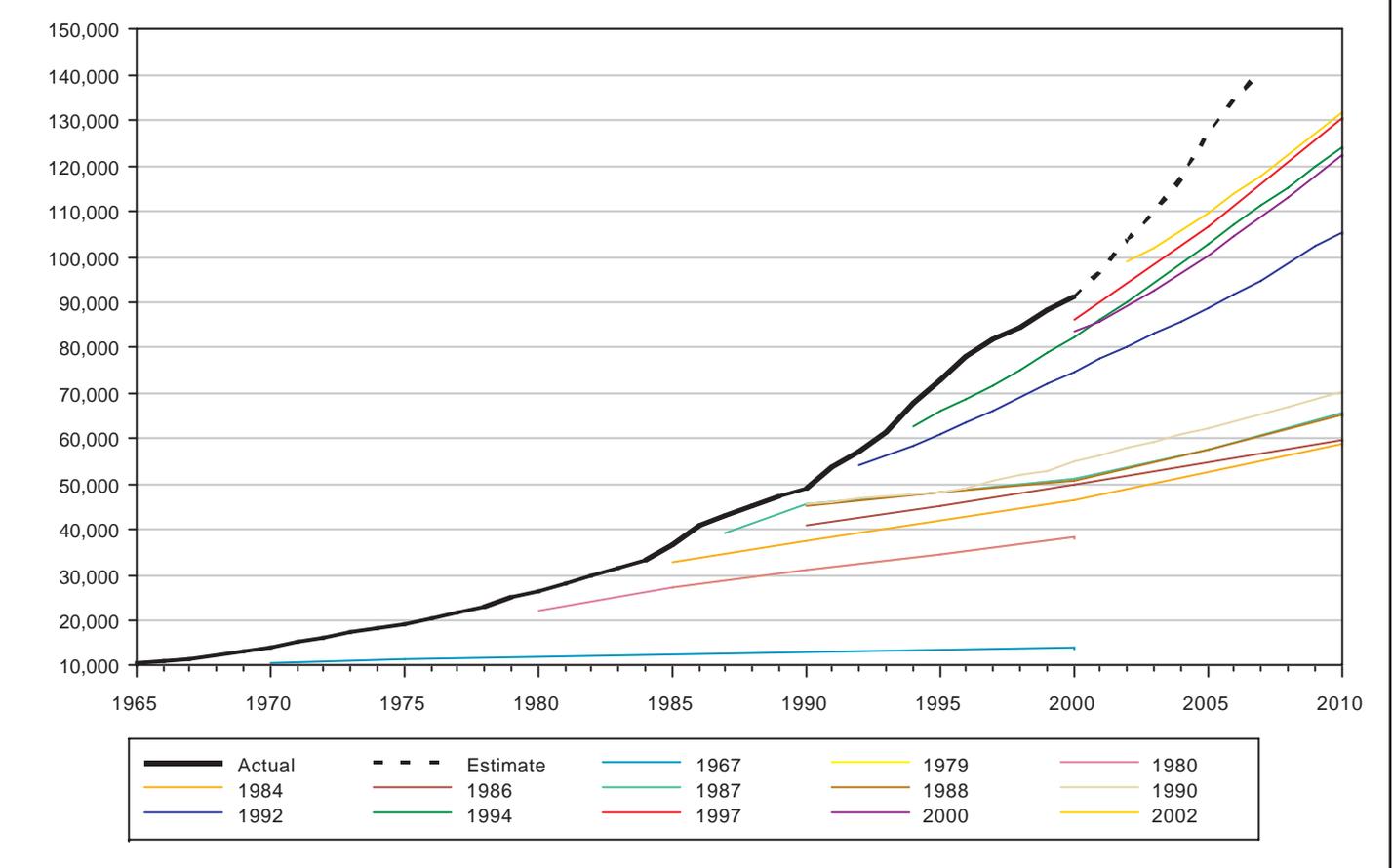
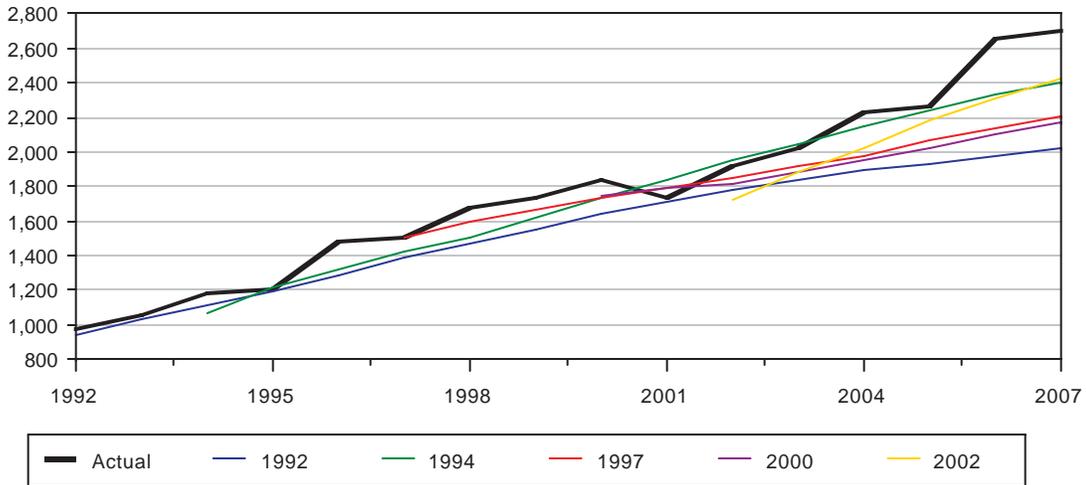


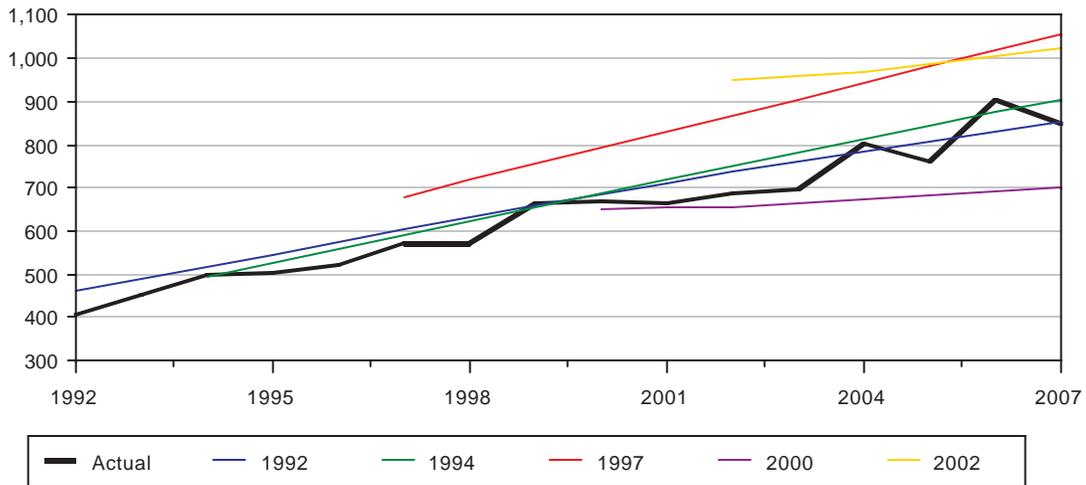
Figure 35.2
Population Projections



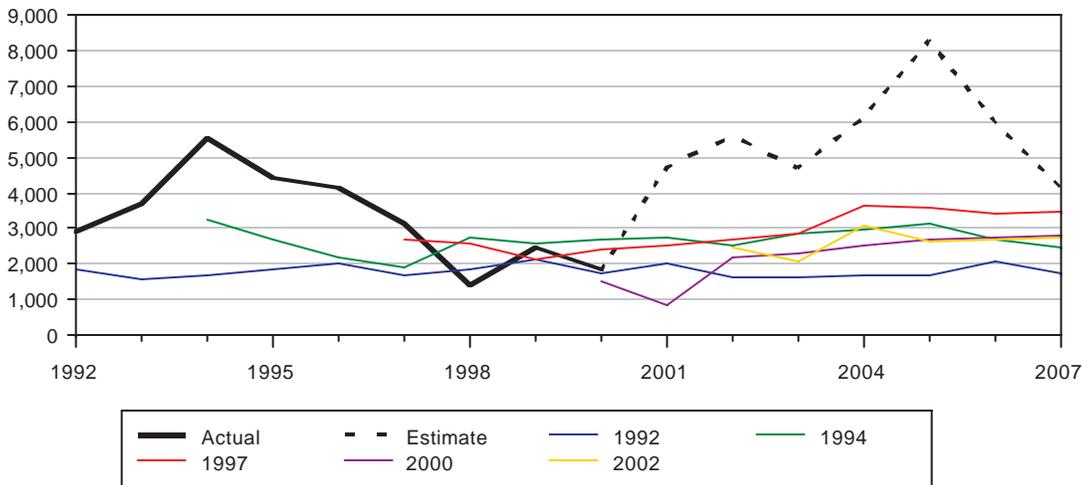
**Figure 35.3
Birth Projections**



**Figure 35.4
Death Projections**



**Figure 35.5
Migration Projections**



Population

Net Migration

Figure 35.6

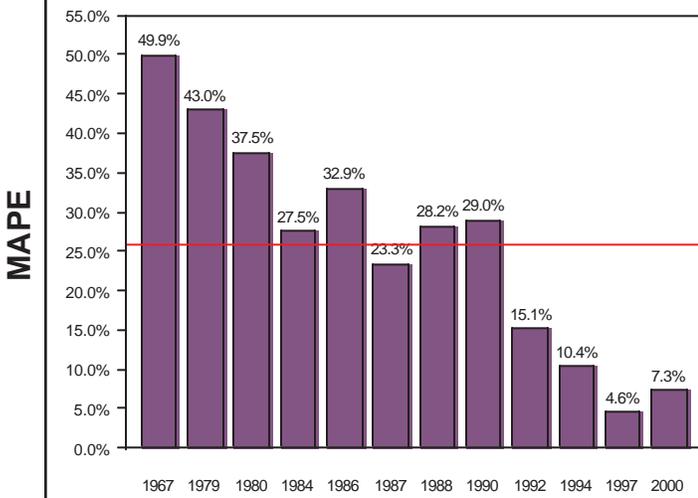


Figure 35.9

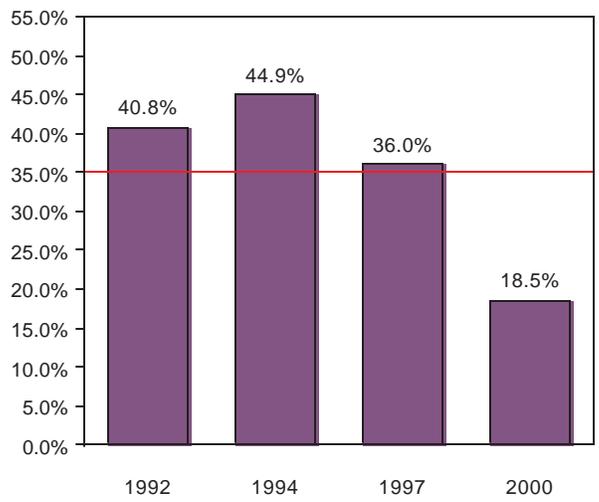


Figure 35.7

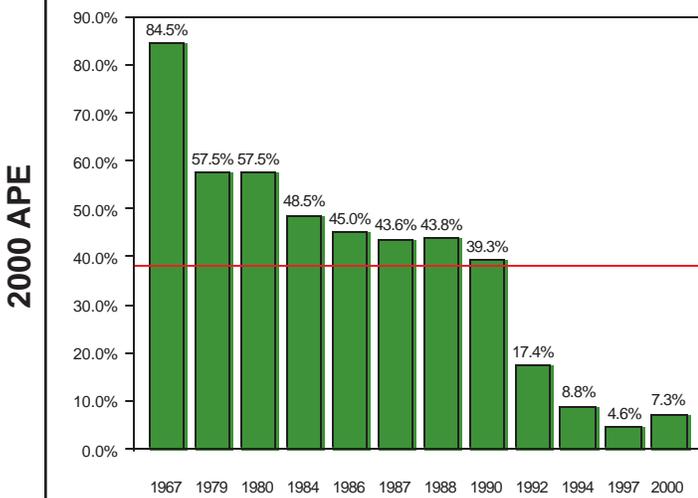


Figure 35.10

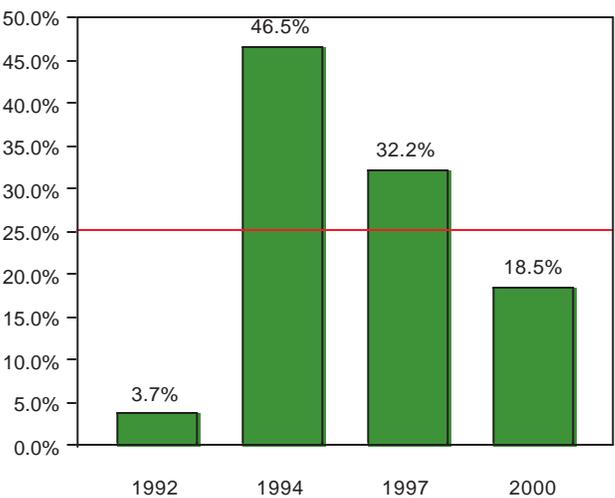


Figure 35.8

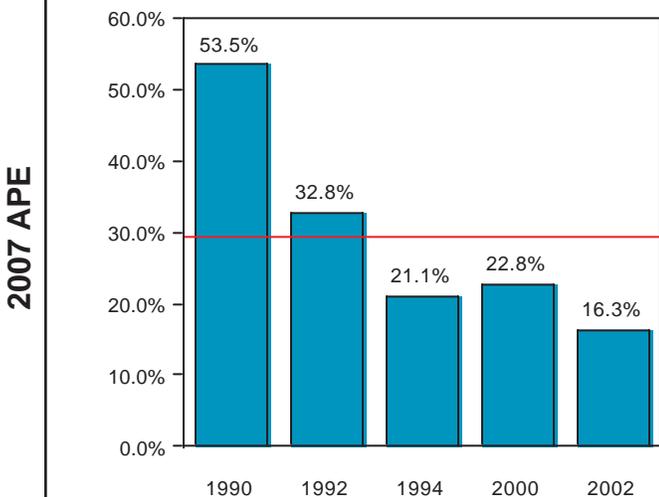
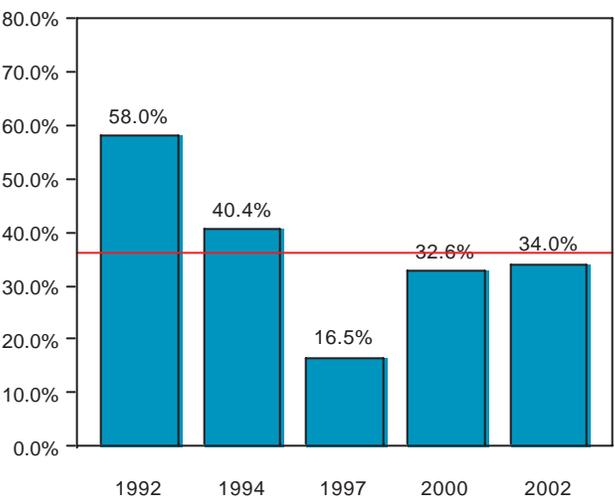


Figure 35.11



Births

Deaths

Figure 35.12

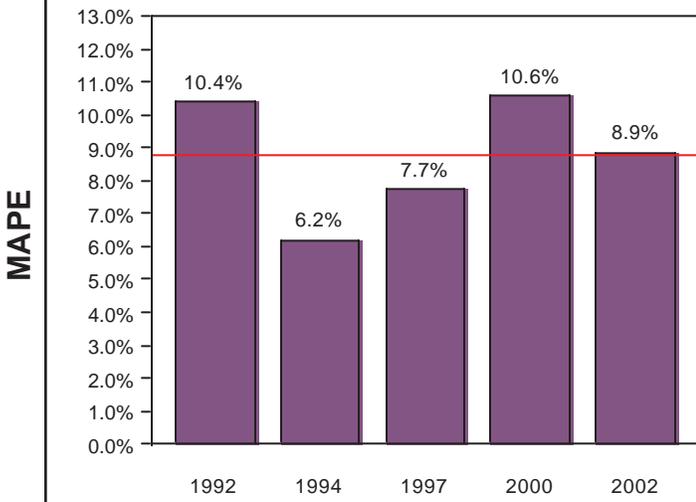


Figure 35.15

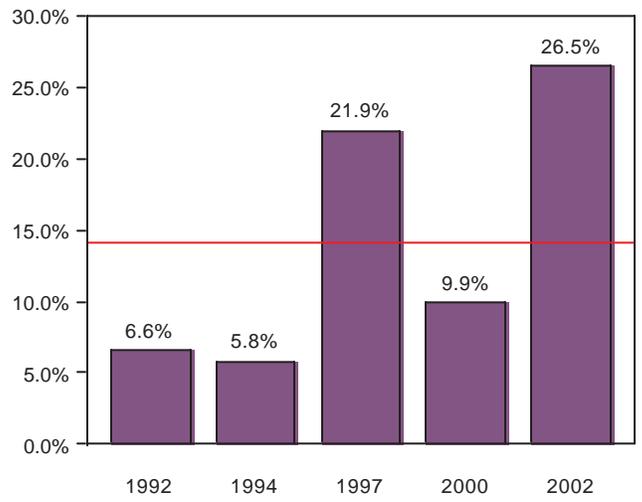


Figure 35.13

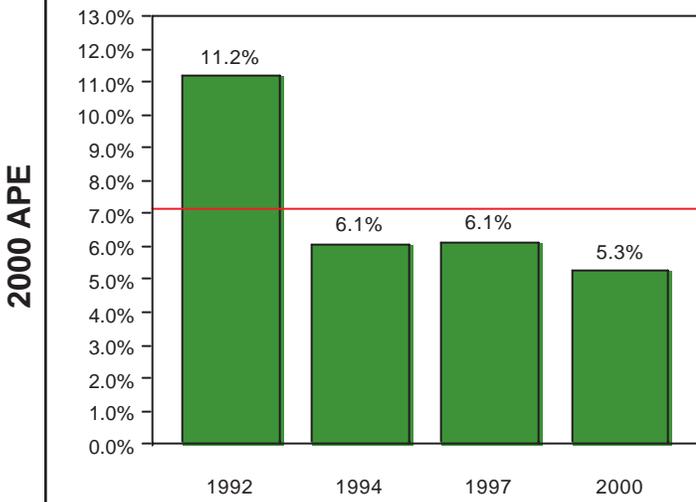


Figure 35.16

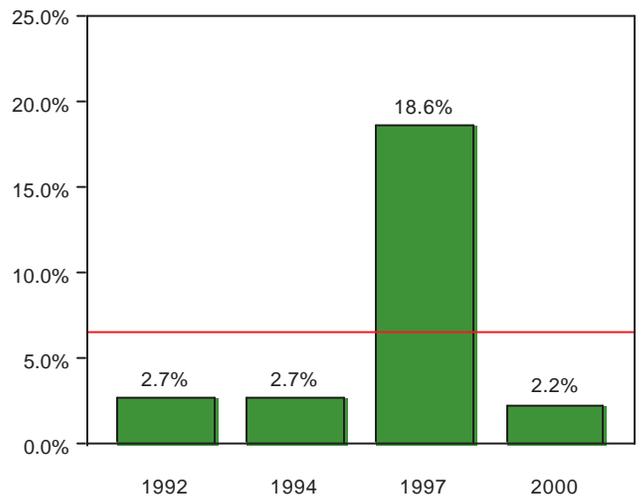


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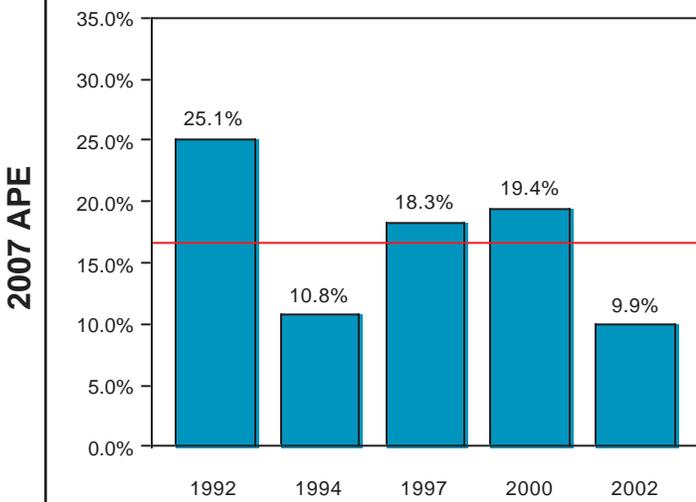
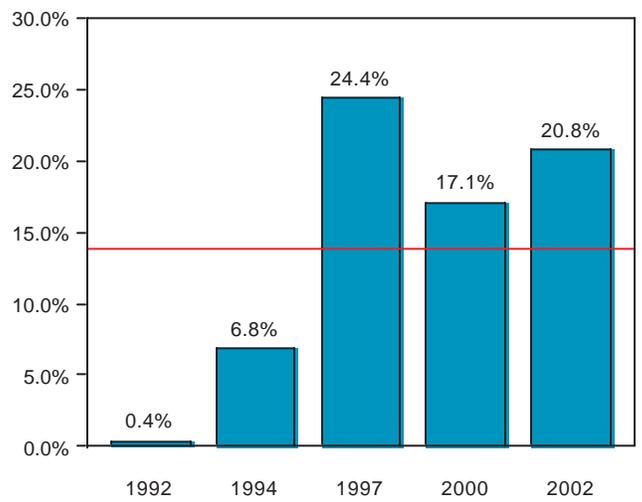


Figure 35.17



Wayne County

The 1994 baseline was the most accurate projection of the 2000 population with an absolute percent error of 3.1%. The 1992, 1997, and 2000 baselines were also close, all within a 7.9% error. The 1967 baseline, the oldest projection of the 2000 population, was the least accurate projection with an absolute percent error of 32.2%. The average absolute percent error of all baselines for the 2000 population projection was 14.4%.

Overall, the 2000 baseline was the most accurate population projection with a mean absolute percent error of 4.3%. The 1979 baseline was the least accurate population projection with a mean absolute percent error of 27.1%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 14.1%.

Of the components of population change, projections for deaths were most accurate with an overall mean absolute percent error for all baselines of 23.9%, compared to 42.3% and 557.7% for births and net migration, respectively.

Figure 36.1
Population Components

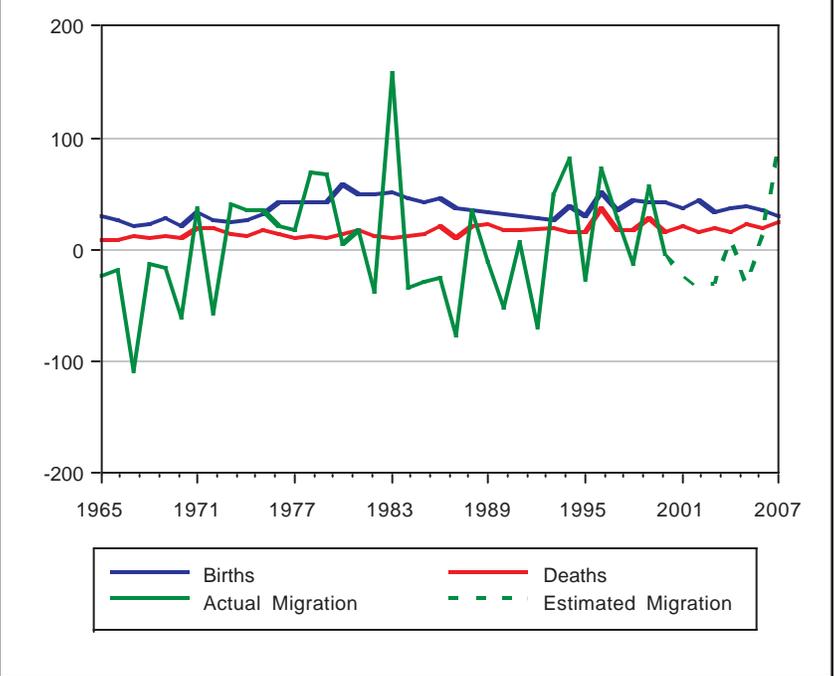


Figure 36.2
Population Projections

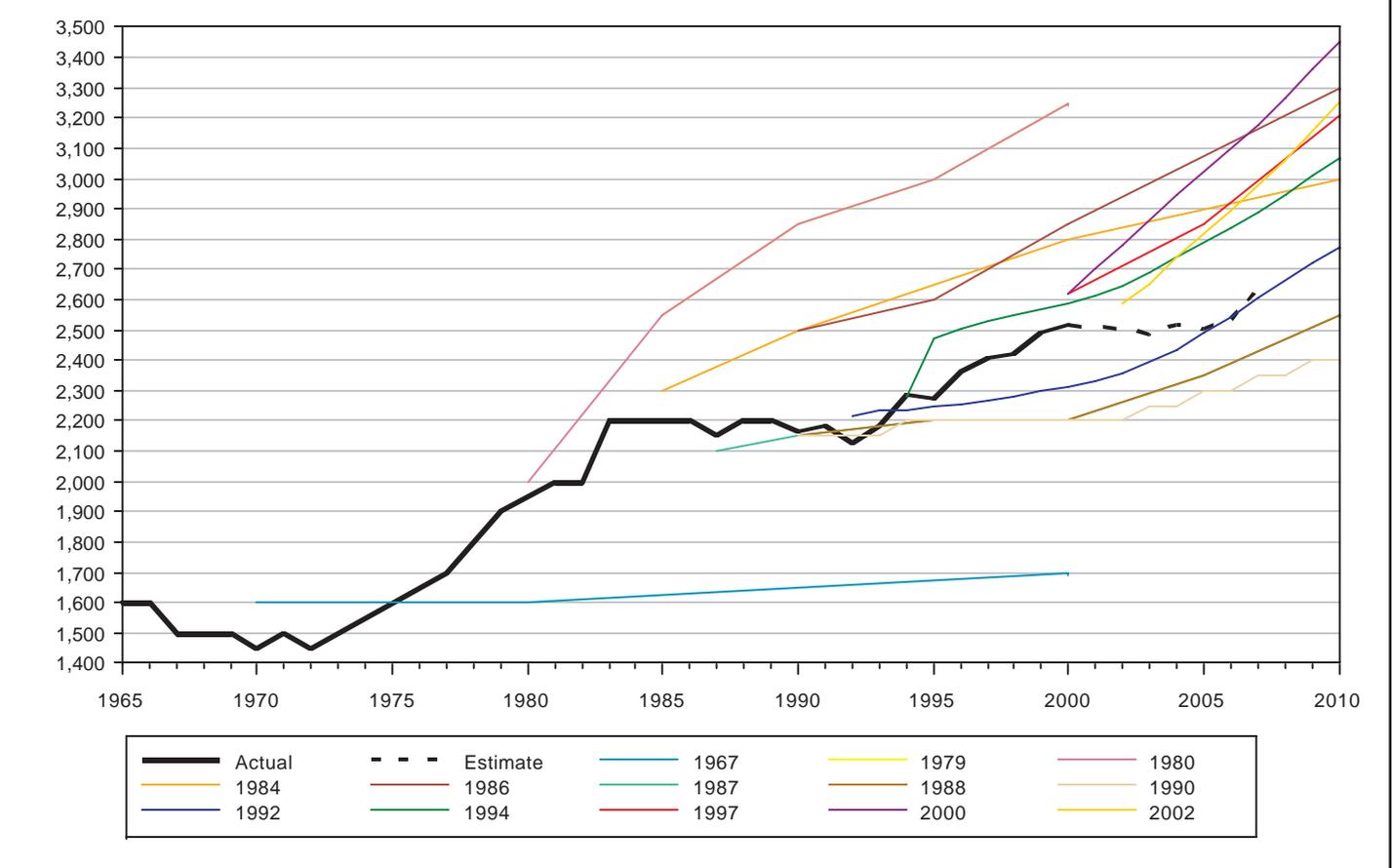


Figure 36.3
Birth Projections

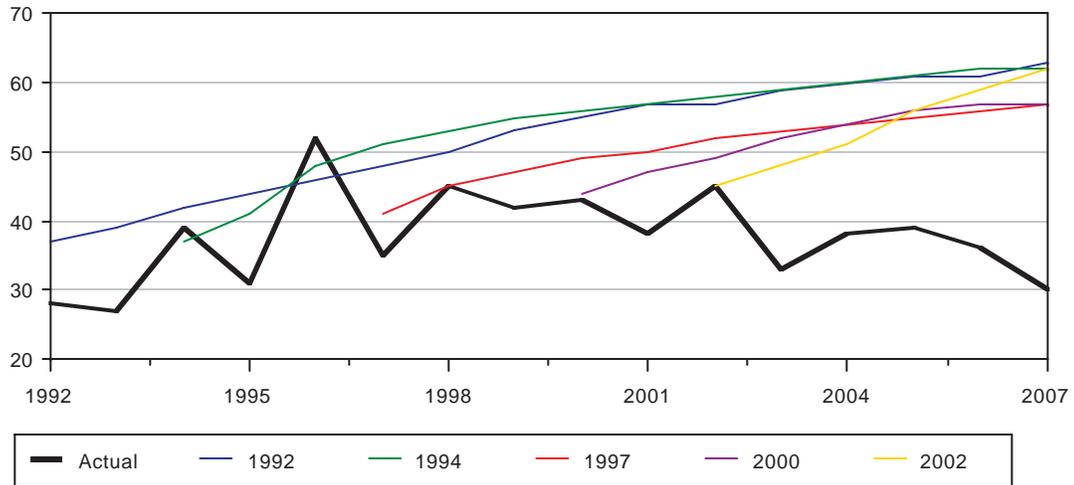


Figure 36.4
Death Projections

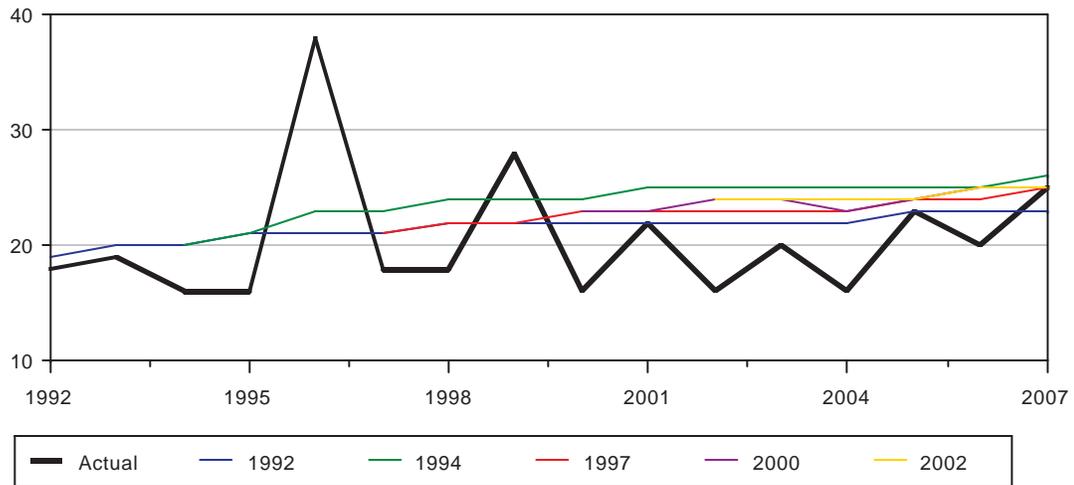
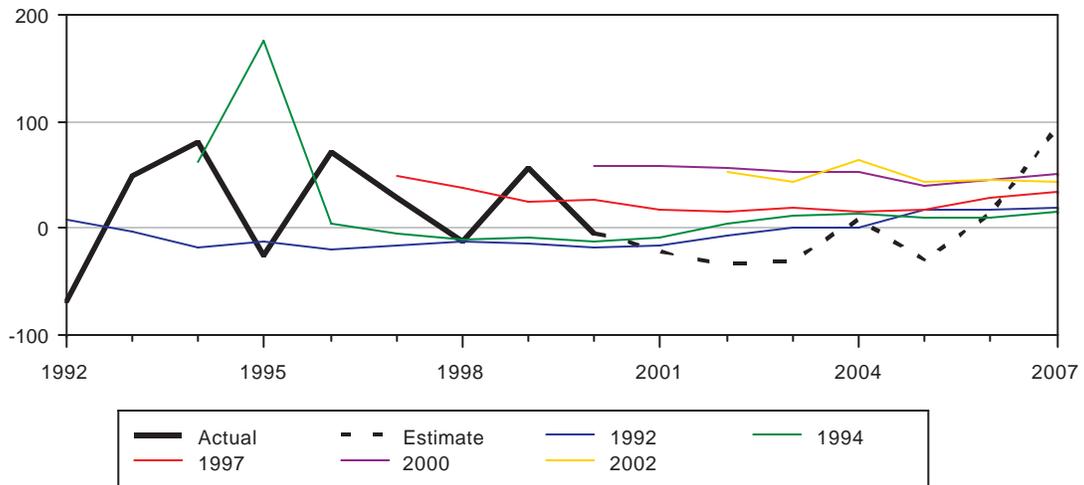


Figure 36.5
Migration Projections



Population

Net Migration

Figure 36.6

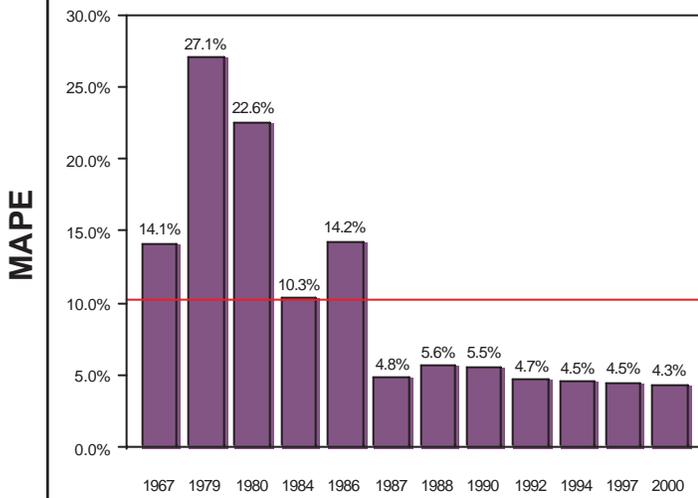


Figure 36.9

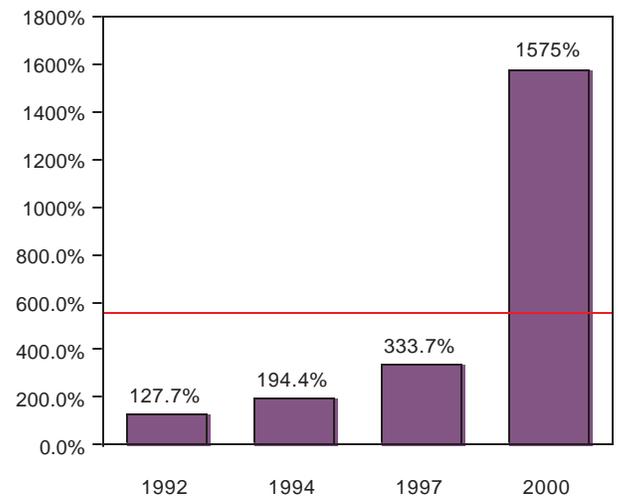


Figure 36.7

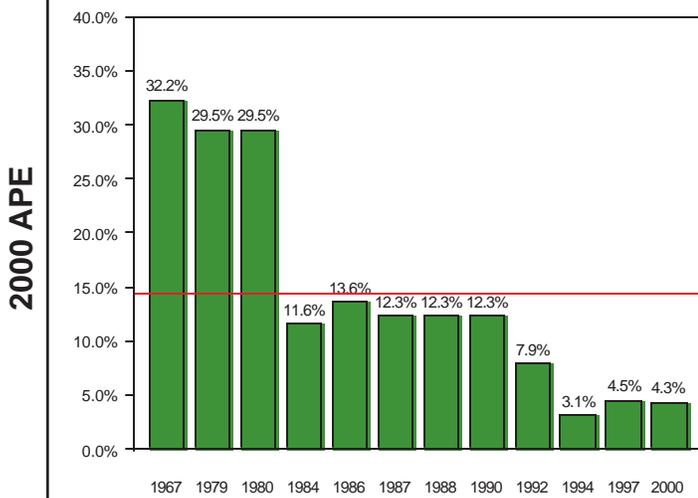


Figure 36.10

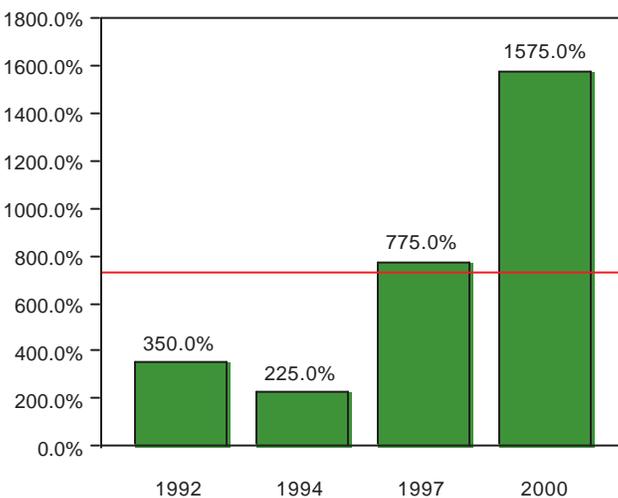


Figure 36.8

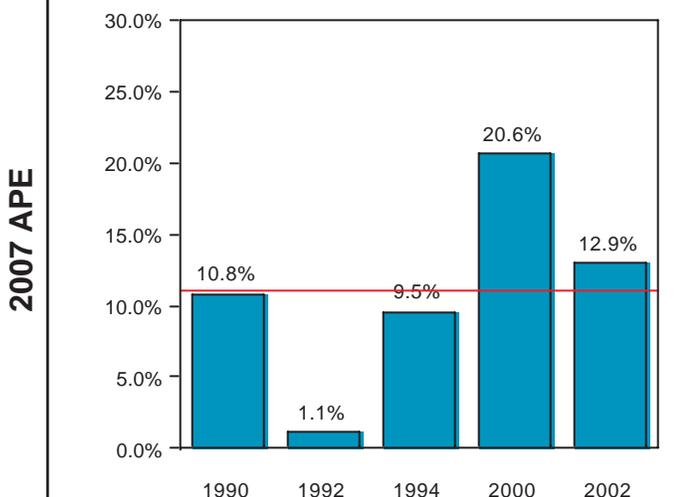
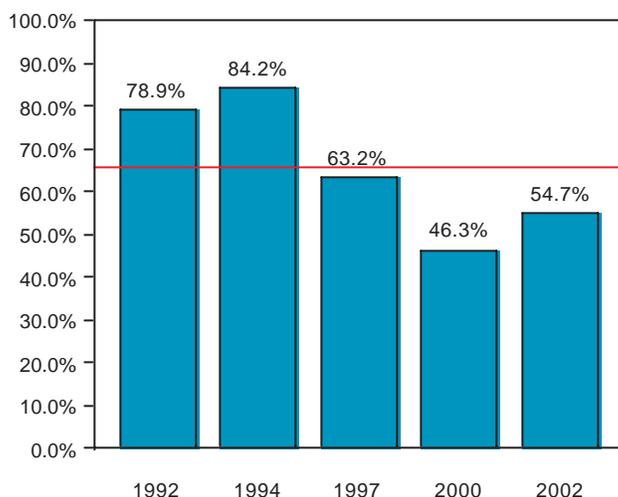


Figure 36.11



Births

Deaths

Figure 36.12

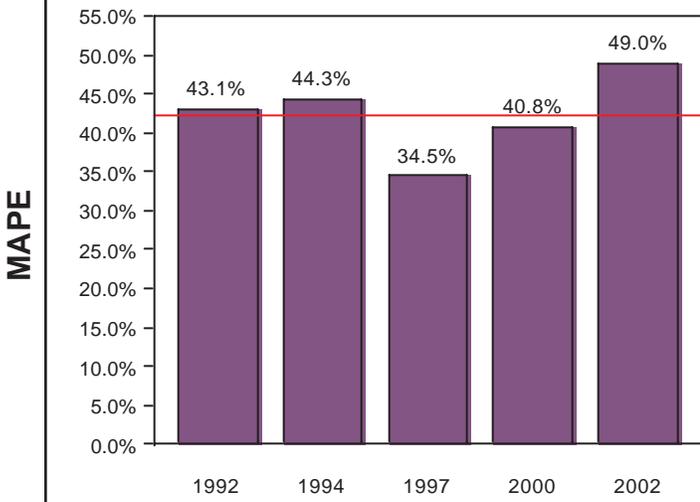


Figure 36.15

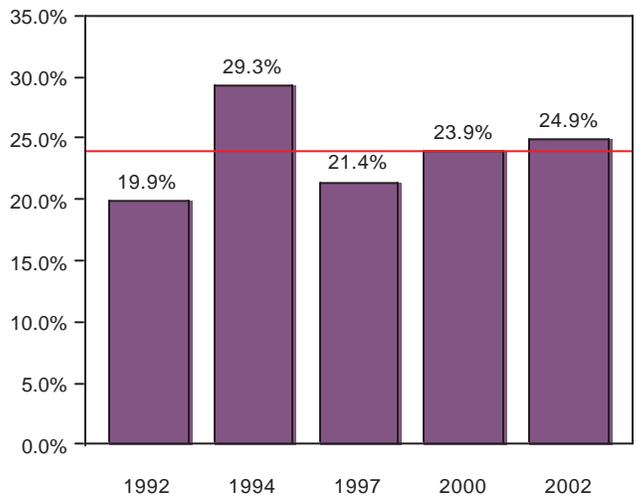


Figure 36.13

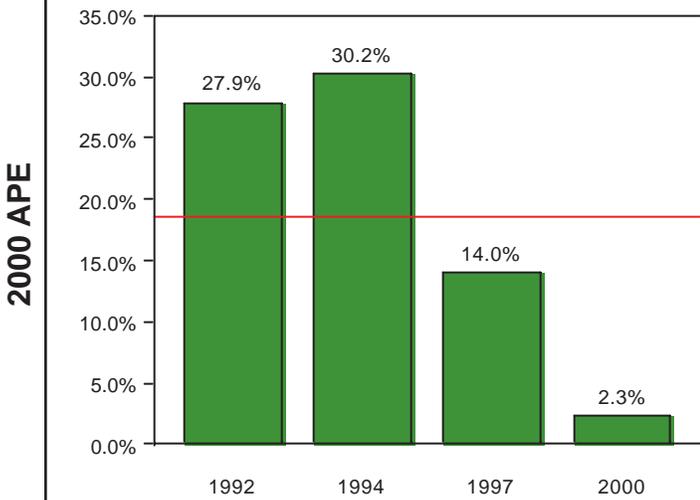


Figure 36.16

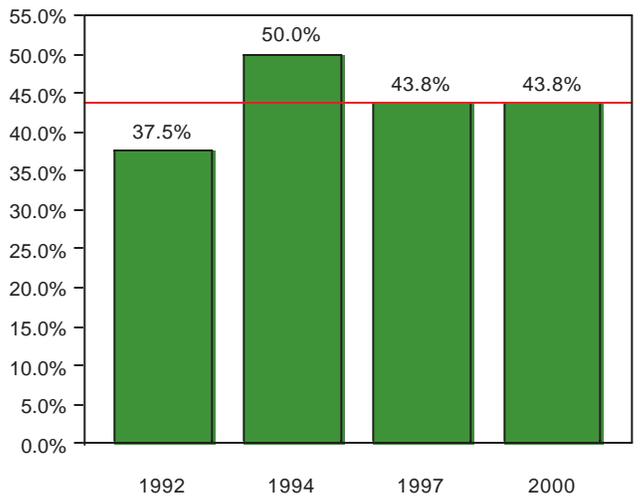


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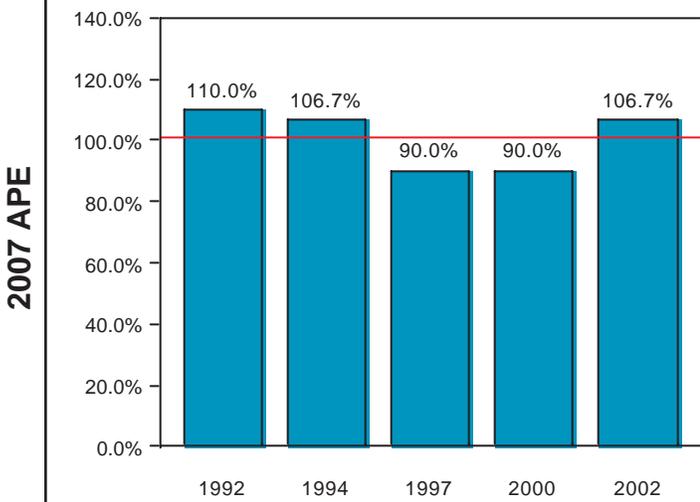
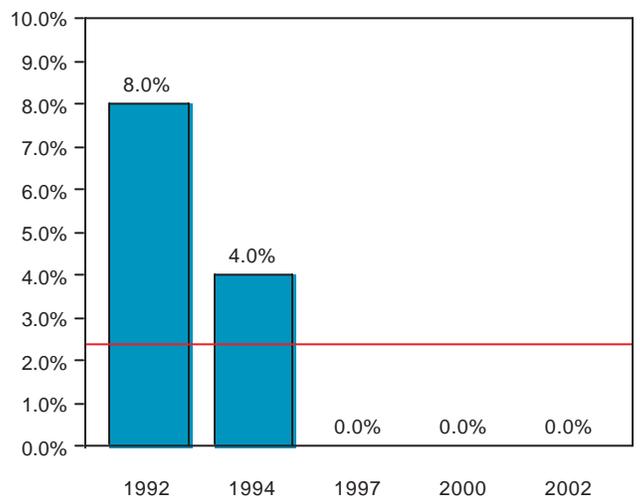


Figure 36.17



Weber County

The 1994 baseline was the most accurate projection of the 2000 population with an absolute percent error of 2.0%. The 1986, 1997, and 2000 baselines were also close, all within a 4.9% error. The 1967 baseline, the oldest projection of the 2000 population, was the least accurate projection with an absolute percent error of 24.9%. The average absolute percent error of all baselines for the 2000 population projection was 10.9%.

Overall, the 1994 baseline was the most accurate population projection with a mean absolute percent error of 1.5%. The 1979 baseline was the least accurate population projection with a mean absolute percent error of 26.3%. The 1967 baseline, the oldest projection, had a mean absolute percent error of 16.7%.

Of the components of population change, projections for births were most accurate with an overall mean absolute percent error for all baselines of 4.9%, compared to 5.6% and 367.1% for deaths and net migration, respectively.

Figure 37.1
Population Components

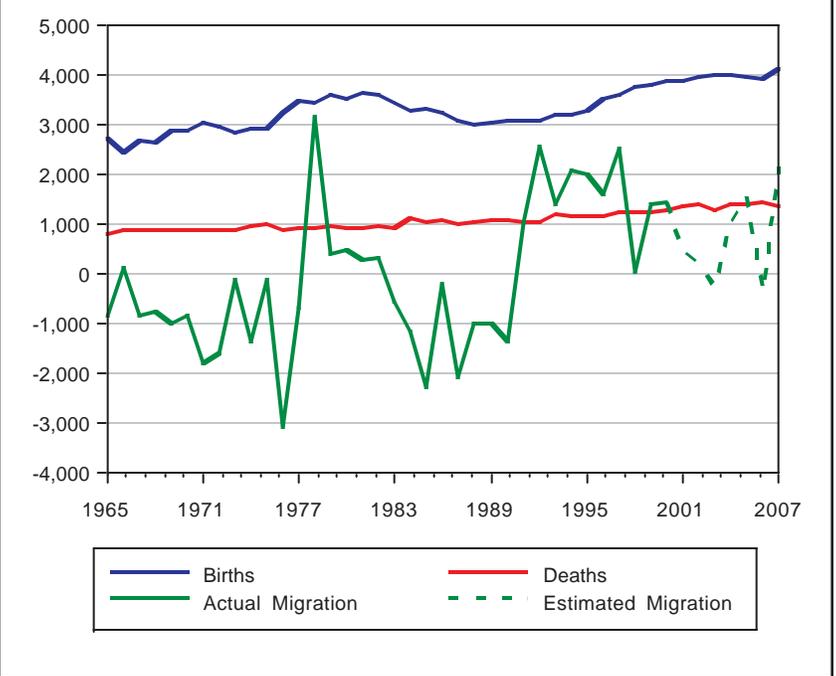
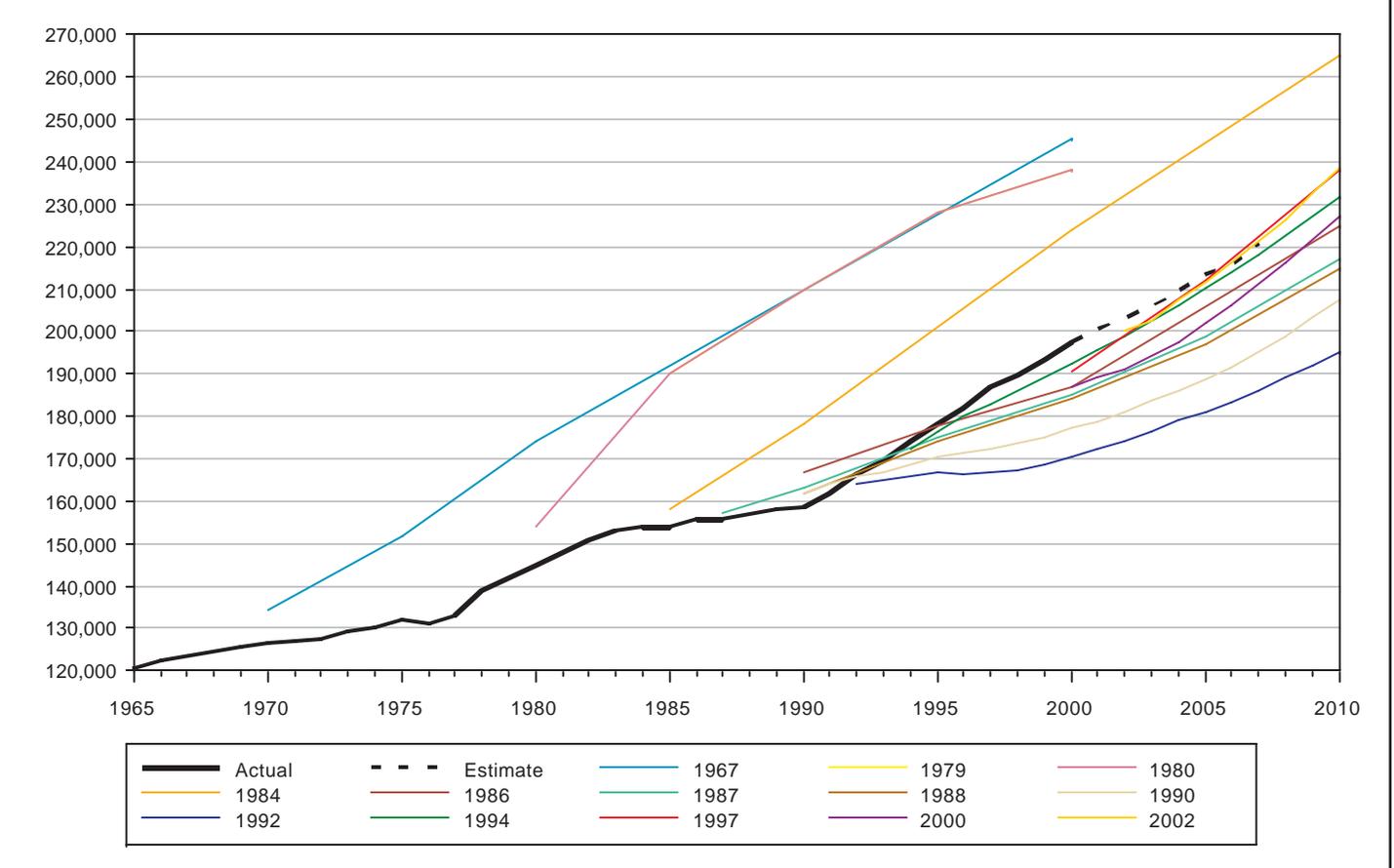
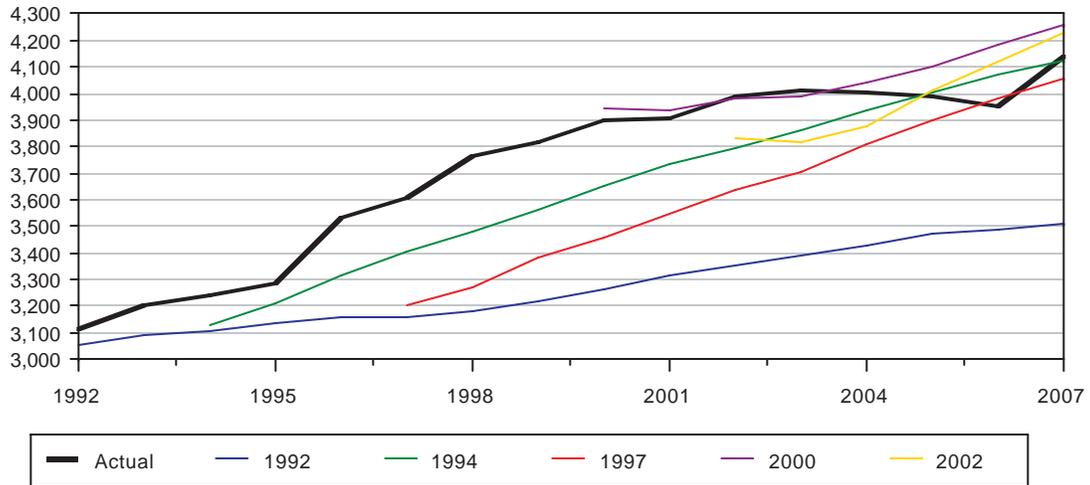


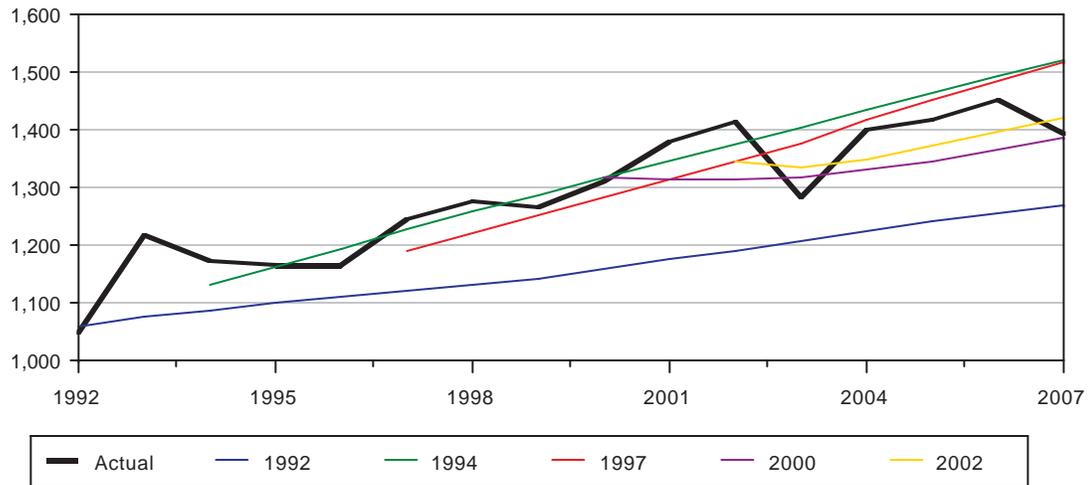
Figure 37.2
Population Projections



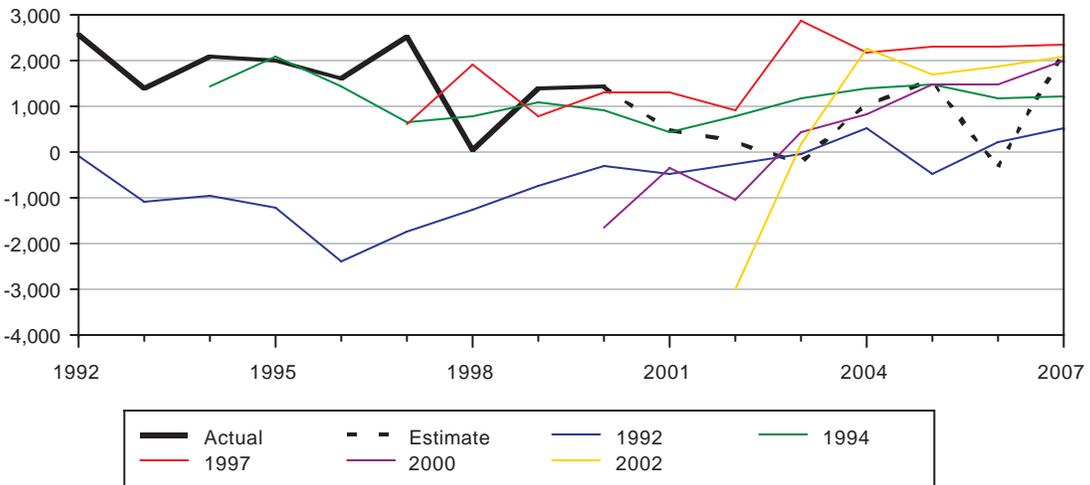
**Figure 37.3
Birth Projections**



**Figure 37.4
Death Projections**



**Figure 37.5
Migration Projections**



Population

Net Migration

Figure 37.6

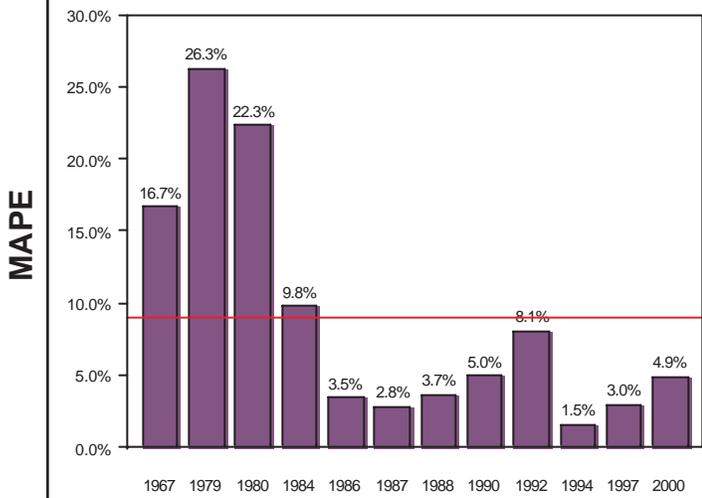


Figure 37.9

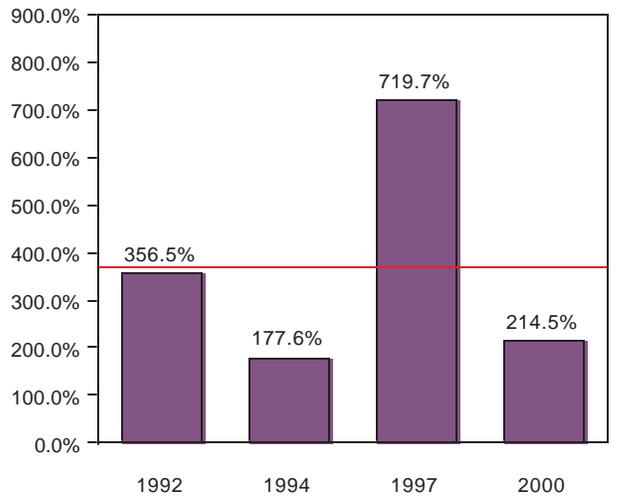


Figure 37.7

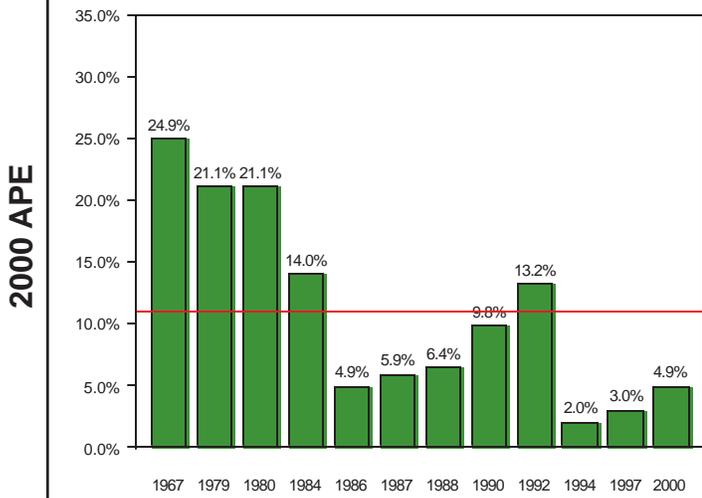


Figure 37.10

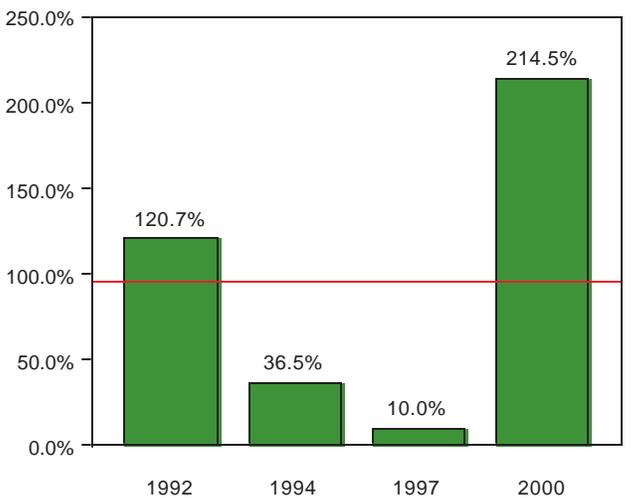


Figure 37.8

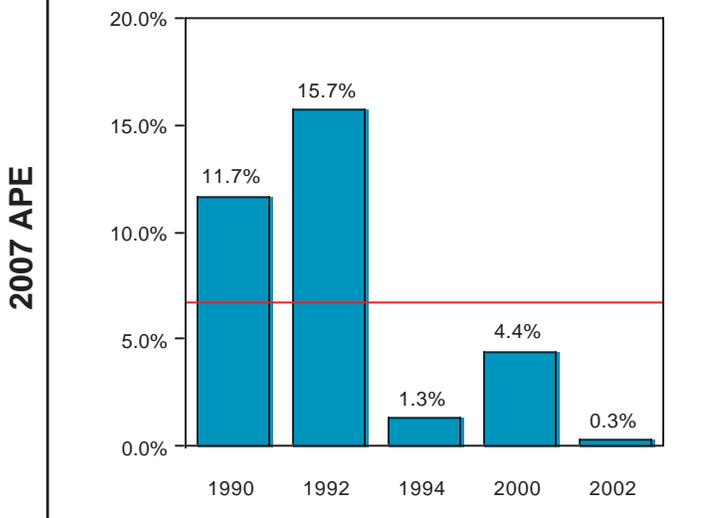
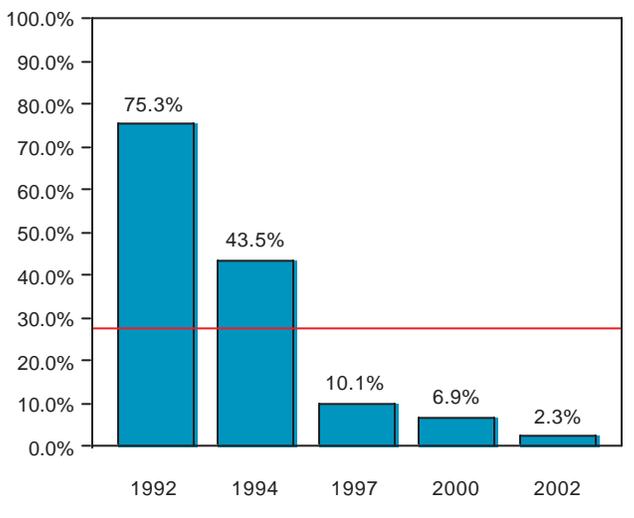


Figure 37.11



Births

Deaths

Figure 37.12

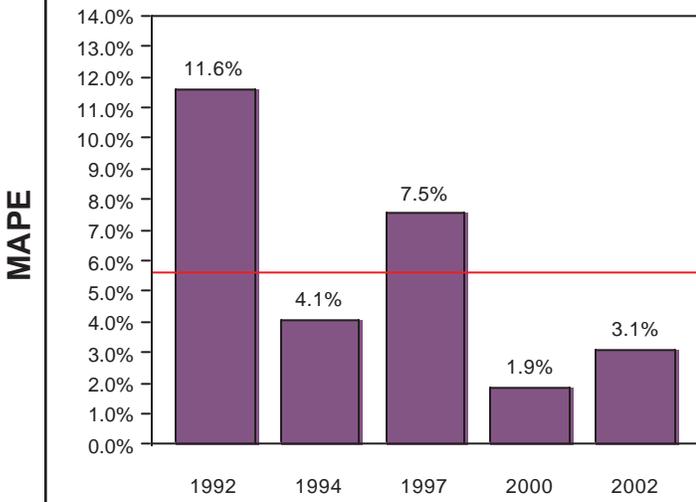


Figure 37.15

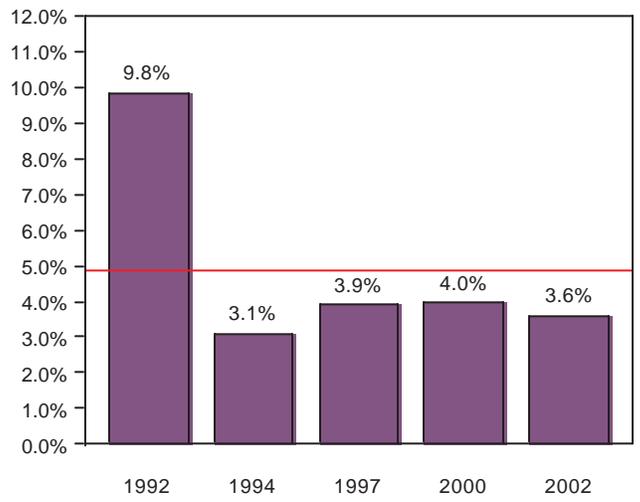


Figure 37.13

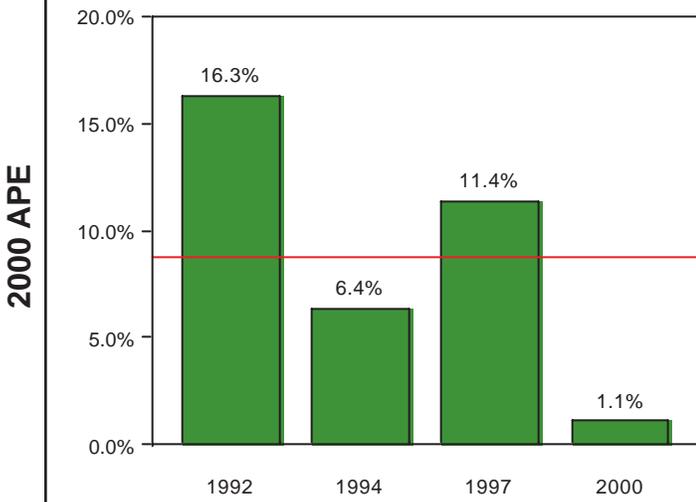


Figure 37.16

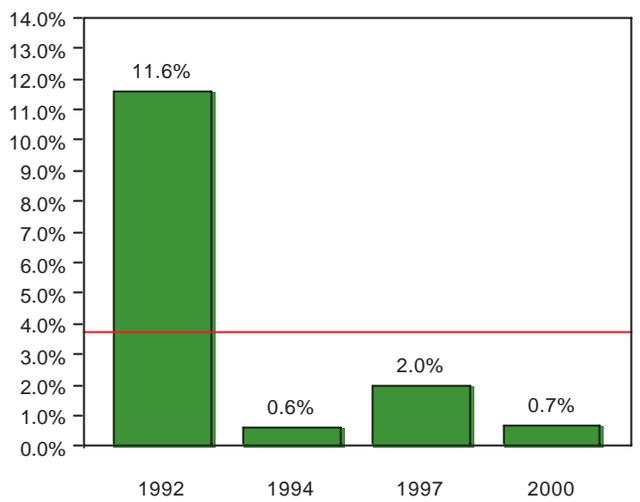


Figure 37.14

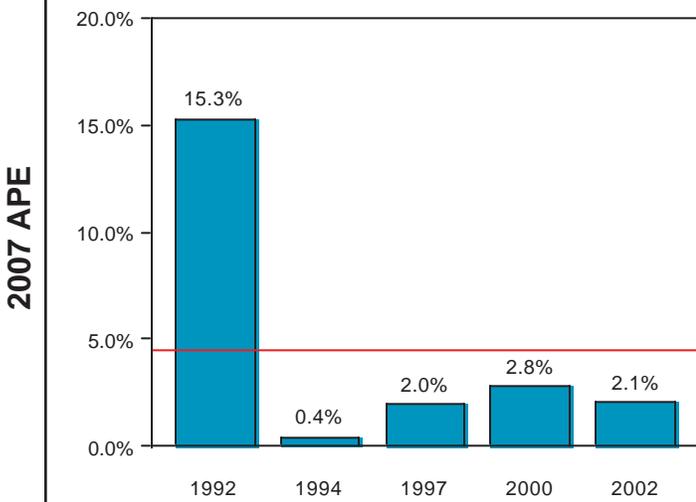


Figure 37.17

