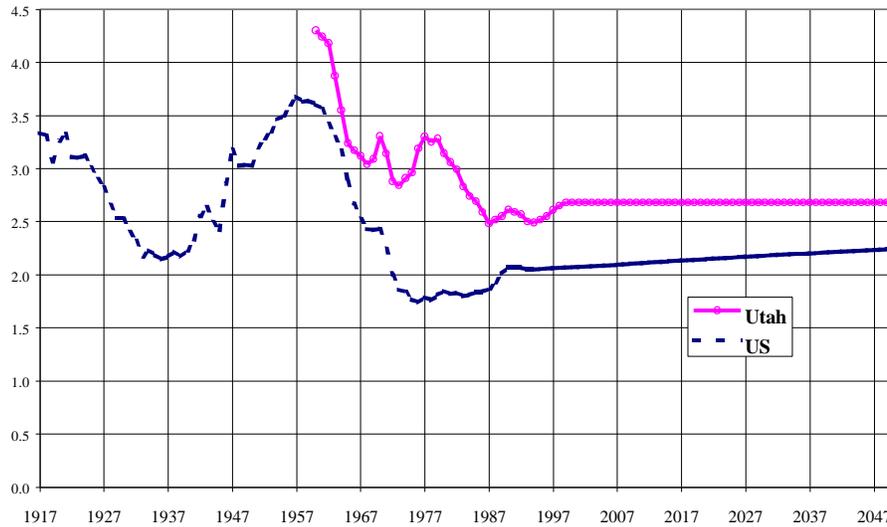


2000 BASELINE FERTILITY ASSUMPTION
Utah Long Term Projections Program
Governor's Office of Planning and Budget
February 15, 2000

Long term demographic and economic projections for the state of Utah, the multi-county planning districts (MCDs), and the counties have been produced by the Demographic and Economic Analysis Section of the Governor's Office of Planning and Budget (GOPB). These provisional projections represent the State's official view of Utah's future and inform a multitude of planning efforts.

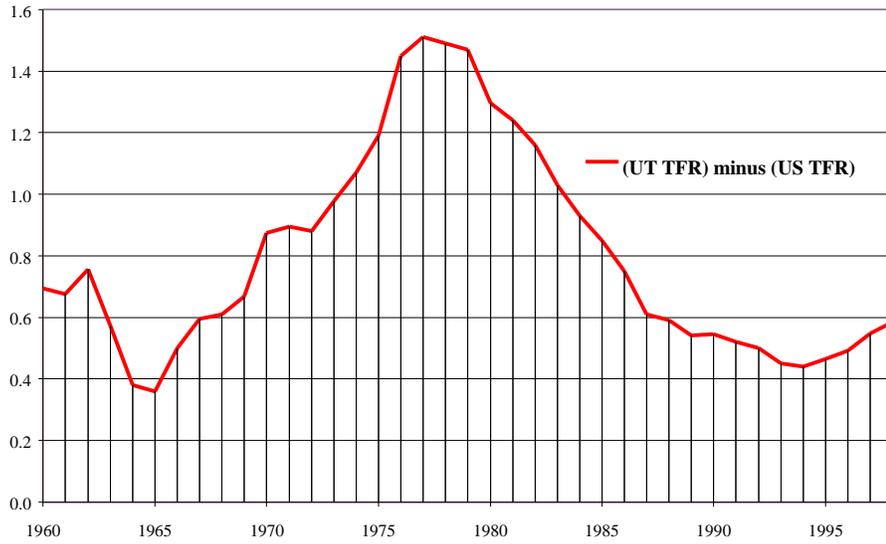
Historical and Projected Total Fertility Rates
Utah and the US: 1917 - 2050



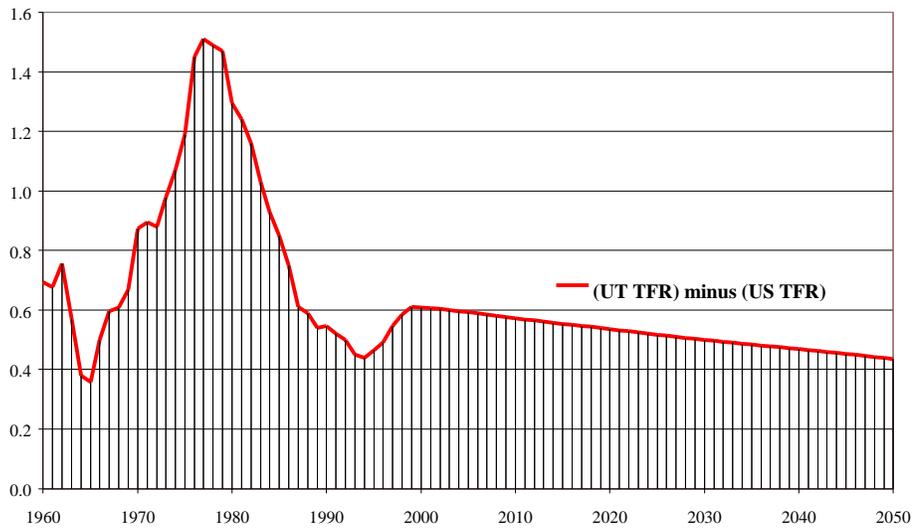
Utah consistently ranks among the youngest states with a large household size and high youth dependency ratio. These are the cumulative results of many years of a relatively high total fertility rate.¹ Over the period 1960 through 1999, Utah's total fertility rate on average exceeded that of the nation by 0.8. This means that, on average, for each 10,000 Utah women aged 14 through 49, there would have been 8,000 more births over all of their childbearing years as compared to 10,000 women in the rest of the nation. The sustained difference in fertility rates explains why Utah's age structure is so different as compared to the nation as a whole. These projections hold Utah's fertility rate constant at estimated 1999 level. Because the U.S. rate is projected to increase, the gap between the two is projected to narrow to 0.5 by 2030 and 0.4 by 2050.

¹ The total fertility rate for a given year is the sum of all age specific fertility rates for the given year. An age specific fertility rate is the proportion of women of a specific age who give birth during a given year.
 $n f_x = \frac{n B_x}{n F_x}$ where: $n f_x$ is the age specific fertility rate of women aged x to $x+n$,
 $n B_x$ is the number of births to women aged x to $x+n$ over the year, and
 $n F_x$ is the number of women aged x to $x+n$ at midyear.

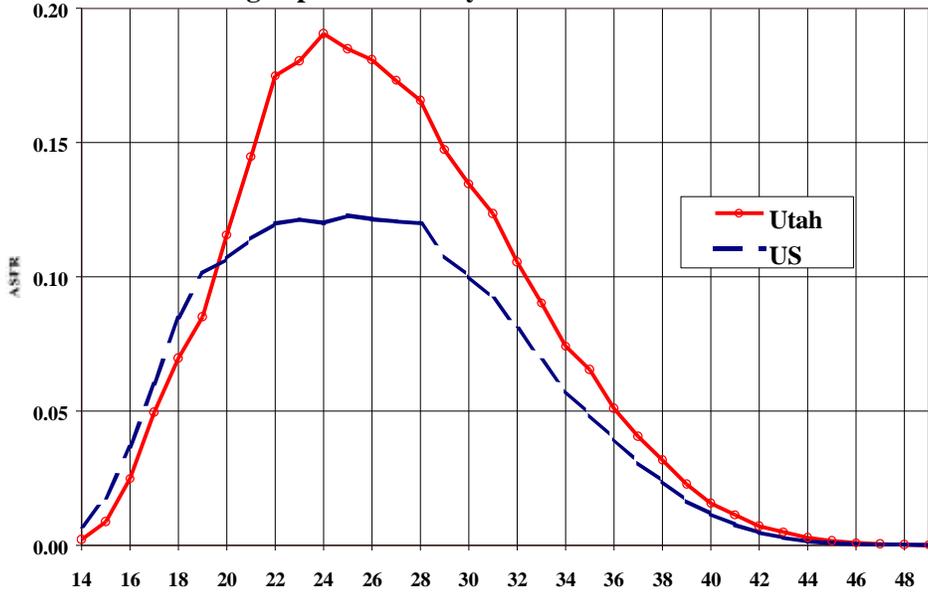
Historical Total Fertility Rate Differentials
Utah TFR less the US TFR: 1960 - 1998



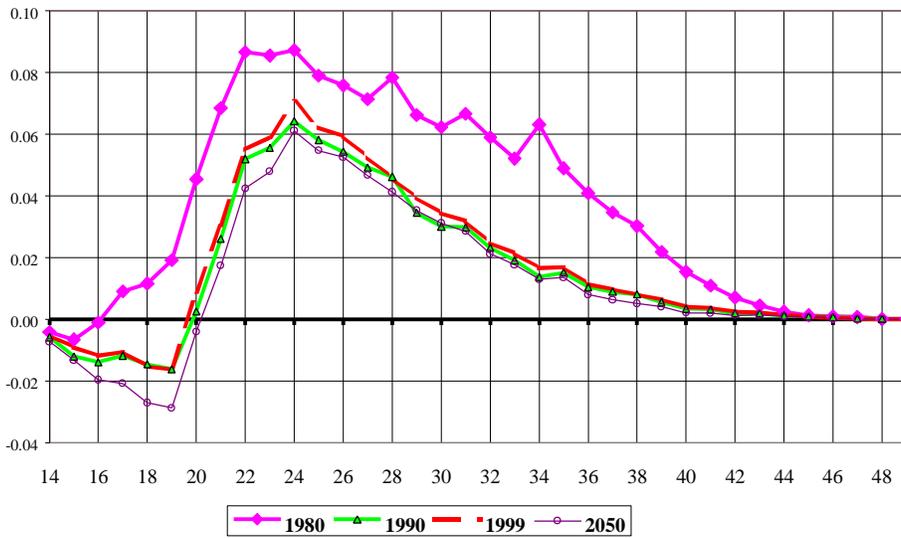
Historical and Projected Total Fertility Rate Differentials
Utah TFR less the US TFR: 1960 - 2050



1999 Age Specific Fertility Rates: Utah and the U.S.



**Age Specific Fertility Rates Differentials
Utah ASFR less U.S. ASFR for 1980, 1990, 1999, & 2050**



The difference between the Utah and U.S. total fertility rates peaked in the late 1970s and early 1980s, a period of record high number of births for the state. In fact, the absolute number of births did not reach these levels again until 1997. The historical and projected patterns of age specific fertility rates of Utah differ from those of the nation as well. From 1980 until present, Utah's age specific fertility rates exceed those of the nation for all ages except the youngest age groups. Over the projection period, the fertility rates of women aged 20 and older are expected to become closer to those of the nation, while the differences at the younger age group are expected to increase.

Notes on Data Sources:

1. U.S. age specific fertility rates for 1917 - 1973 are from R.L. Heuser, "Fertility Tables for Birth Cohorts by Color: U.S. 1917-73," Rockville, Maryland: National Center for Health Statistics, 1976.
2. U.S. age specific fertility rates for 1980 and 1990 from "Vital Statistics of the United States, National Vital Statistics Reports," National Center for Health Statistics.
3. U.S. age specific fertility rates for 1974-79, 1981-89, and 1991-94 are interpolated by GOPB but controlled to US historical (NCHS) total fertility rates.
4. Projected U.S. age specific fertility rates for 1995 - 2050 were produced by the Census Middle Series (P25-1130, February 1996.)
5. Utah age specific fertility rates for 1970, 1980, and 1990 are GOPB estimates based on population from the Decennial Censuses and birth data from the Utah Bureau of Vital Records.
6. Utah MCD (multi-county planning district) age specific fertility rates for 1971-79 and 1981-89 are GOPB interpolations and do not represent real data.
7. The state age specific fertility rates for 1960-69 and 1971-79 are based on the total fertility rate estimates by Eileen Brown, "Fertility in Utah: 1960-85."
8. The State of Utah age specific fertility rates for 1981-89 are GOPB estimates.
9. The State and MCD age specific fertility rates for 1991-99 are GOPB estimates.