

## Intercensal Population Estimates

The intercensal population estimates are consistent with the census counts prior and after the estimate years. That is, the intercensal 1981-1989 estimates are consistent with both 1980 and 1990 censuses while the intercensal 1971-1979 estimates are consistent with the 1970 and 1980 censuses.

The procedure used to develop the annual intercensal state population estimates takes into account both length of time from the previous census and size of the postcensal population estimate. The 1971-1979 intercensal state estimate procedure was formulated algebraically in the *Current Population Reports, Series P-25, No. 956* as follows:

$$P_t = Q_t[(10 - t)Q_{10} + tP_{10}] / 10Q_{10}$$
$$t = 0, 1.25, 2.25, \dots, 9.25, 10$$

where  $P_t$  = the intercensal estimate at time  $t$ ;  
 $Q_t$  = the postcensal estimates at time  $t$ ;  
 $P_{10}$  = the April 1, 1980 census count;  
 $Q_{10}$  = the April 1, 1980 postcensal estimate; and  
 $Q_0 = P_0$  = the April 1, 1970 census count

The intercensal county population estimates, 1981-1989 were prepared by the US Bureau of the Census based on the following formula (published on the *Current Population Reports, Series P-25, No. 1106*):

$$P_t = Q_t(P_{10} / Q_{10})^{t / 10}$$

where  $t$  = time (years) elapsed since April 1, 1980,  $0 \leq t \leq 10$   
 $Q_t$  = postcensal estimate at time  $t$   
 $P_t$  = intercensal estimate at time  $t$   
 $Q_0 = P_0$  = actual census count as of April 1, 1980  
 $P_{10}$  = actual census count as of April 1, 1990  
 $Q_{10}$  = postcensal estimate for April 1, 1990

The intercensal municipal population estimates were prepared based on the published postcensal municipal estimates and intercensal county estimates. In the process of preparing the intercensal municipal estimates, the sum of population changes in individual municipalities were adjusted to be consistent with the county totals for each intercensal year based on the intercensal county estimates. *They are therefore not a revision of the municipal estimates due to new input data and/or new estimate methodology.*

Prepared by: New Jersey Department of Labor, Division of Labor Market and Demographic Research, 10/97.