

## Tables 11 and 11a - Demographic Yearbook 2009 - 2010

Table 11 presents live births by age of father and live birth rates by age of father for the latest available year between 2000 and 2009. Table 11a presents the available data for year 2010.

Description of variables: Age is defined as age at last birthday, that is, the difference between the date of birth and the date of the occurrence of the event, expressed in completed solar years. The age classification used in this table is the following: under 20 years, 5-year age groups through 60-64 years, 65 years and over, and age unknown. A different classification may appear as provided by reporting country or area.

Rate computation: Live-birth rates specific to age of father are the annual number of births to a man in each age group per 1 000 male population in the same age group. These rates are calculated by the Statistics Division of the United Nations.

Since relatively few births occur to men below 15 or above 59 years of age, birth rates for men under 20 years of age and for those 55 years of age or over are computed on the male population aged 15-19 and 55-59, respectively. Similarly, the rate for men of "All ages" is based on all live births irrespective of age of father, and is computed on the male population aged 15-59 years.

Births to fathers of unknown age are distributed proportionately across the age groups, by the Statistics Division of the United Nations, in accordance with the distribution of births by age of father prior to the calculation of the rates.

The population used in computing the rates is the estimated or enumerated distribution of males by age. First priority is given to the estimated population and second priority to the enumerated population, i.e. to census returns of the year to which the births refer.

Rates presented in this table are limited to those for countries or areas having at least a total of 100 live births in a given year.

Reliability of data: Data from civil registers of live births which are reported as incomplete (less than 90 per cent completeness) or of unknown completeness are considered unreliable and are set in *italics* rather than in roman type. Rates are not computed if the data on live births from civil registers are reported as incomplete (less than 90 per cent completeness) or of unknown completeness. Table 9 and the technical notes for that table provide more detailed information on the completeness of birth registration. For more information about the quality of vital statistics data in general, see section 4.2 of the Technical Notes.

Limitations: Statistics on live births by age of father are subject to the same qualifications as have been set forth for vital statistics in general and birth statistics in particular as discussed in section 4 of the Technical Notes. These include differences in the completeness of registration, the method used to determine age of father and the quality of the reported information relating to age of father.

The reliability of the data described above, is an important factor in considering the limitations. In addition, some live births are tabulated by date of registration and not by date of occurrence; these are indicated in the table by a plus sign "+". Whenever the lag between the date of occurrence and date of registration is prolonged and, therefore, a large proportion of the live-birth registrations are delayed, birth statistics for any given year may be seriously affected. For example, the age of the father will almost always refer to the date of registration rather than to the date of birth of the child. Hence, in those countries or areas where registration of births is delayed, possibly for years, statistics on births by age of father should be used with caution.

Another factor which limits international comparability is the practice of some countries or areas of not including in live birth statistics infants who were born alive but died before the registration of the birth or within the first 24 hours of life, thus underestimating the total number of live births. Statistics of this type are footnoted.

Because these statistics are classified according to age, they are subject to the limitations with respect to accuracy of age reporting similar to those already discussed in connection with section 3.1.3 of the Technical Notes. The factors influencing the accuracy of reporting may be somewhat dissimilar in vital statistics (because of the differences in the method of taking a census and registering a birth) but, in

general, the same errors can be observed. The absence of frequencies in the unknown age group does not necessarily indicate completely accurate reporting and tabulation of the age item. It is often an indication that the unknowns have been eliminated by assigning ages to them before tabulation, or by proportionate distribution after tabulation.

On the other hand, large frequencies in the unknown age category may indicate that a large proportion of the births are born outside of wedlock, the records for which tend to be incomplete so far as characteristics of the parents are concerned.

Another limitation of age reporting may result from calculating age of father at birth of child (or at time of registration) from year of birth rather than from day, month and year of birth. Information on this factor is given in footnotes when known.

In few countries, data by age refer to deliveries rather than to live births causing under-enumeration in the event of a multiple birth. This practice leads to lack of strict comparability, both among countries or areas relying on this practice and between data shown in this table and table 9.

Rates shown in this table are subject to the same limitations that affect the corresponding statistics on live births. In cases of rates based on births tabulated by date of registration and not by date of occurrence; the effect of including delayed registration on the distribution of births by age of father may be noted in the age-specific fertility rates for men at older ages. In some cases, high age-specific rates for men aged 55 years and over may reflect age of father at registration of birth and not fertility at these older ages.

Earlier data: Live births and live birth rates by age of father have been shown in previous issues of the *Demographic Yearbook*. Information on the specific years is presented in the Historical Index.