

AGE-SPECIFIC BIRTH RATE

1. Definition:

AGE-SPECIFIC BIRTH RATE is the number of resident live births to women in a specific age group for a specified geographic area (country, state, county, etc.), divided by the total population of women in the same age group for the same geographic area (for a specified time period, usually a calendar year). This figure is multiplied by 1000 to give a rate per 1000 population.

2. Calculation:

$$\frac{\text{Number of Resident Live Births To Women in a Specific Age Group}}{\text{Number of Women in the Same Age Group}} \times 1000$$

3. Examples:

36,000 live births in 2008 among state resident women who are 20-24 years old
310,000 state resident women who are 20-24 years old in 2008

$36,000/310,000 \times 1000 = \underline{116.1}$ live births per 1000 state resident women who are 20-24 years old in 2008

4. Technical Notes:

- Age groupings may vary among states, especially with interval lengths (e.g., 5 years versus 10 years).
- In less densely populated areas, annual numbers of age-specific births may be small, especially for very young or very old age groups, which would result in an age-specific rate considered to be too unstable or unreliable for analysis. Adding additional years (three or five-year average annual rates) and/or expanding the area to be studied should result in a larger number of age-specific births and more reliable rates for analysis.