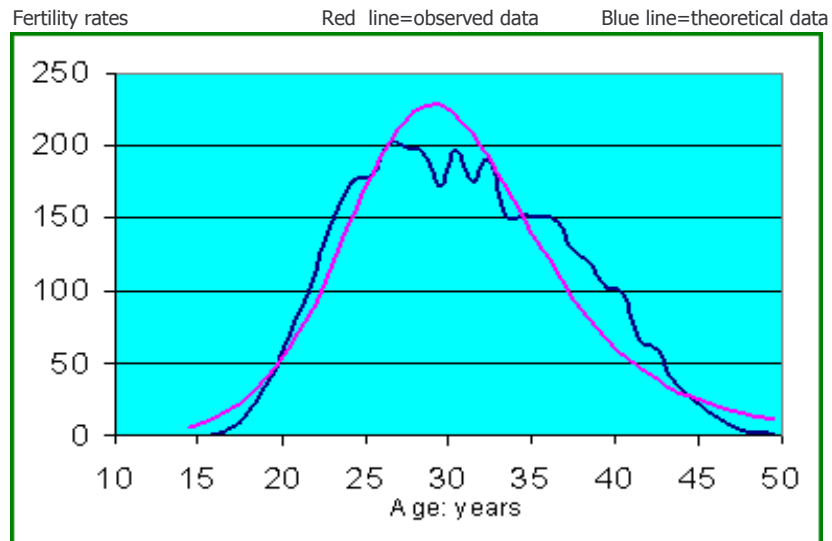


# FERTILITY FUNCTIONS

(Source: Petrioli Luciano, "PRODEMOG 3.0-Demographic software for Windows", EMMECI-SIENA-ITALY,(2000).

## LOG-LOGISTIC



**Age-specific fertility rates: Italy, year 1930**

The distribution Log-logistic is:

$$F(x) = C \cdot \left\{ 1 + [x/A]^{-B} \right\}^{-1} \quad [1]$$

While the density function is:

$$f(x) = (C * B / A) * [x / A]^{-(B+1)} * \left\{ 1 + [x / A]^{-B} \right\}^{-2} \quad [2]$$