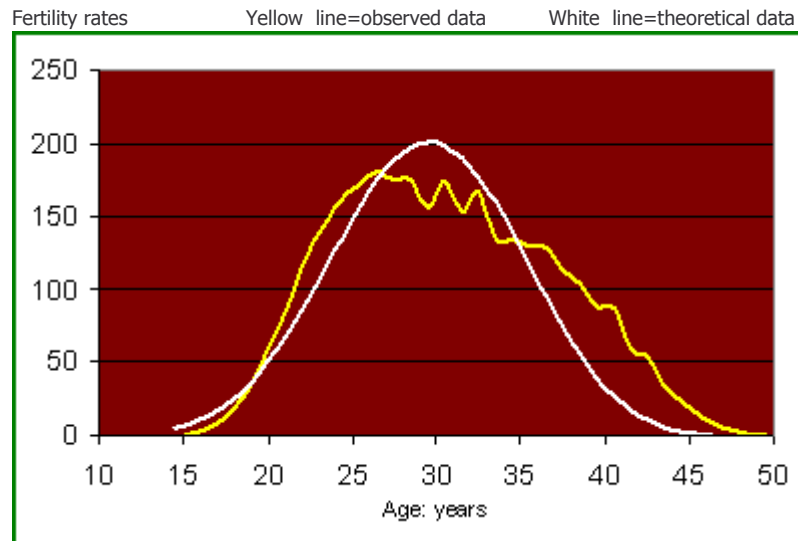


FERTILITY FUNCTIONS

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

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Age-specific fertility rates: Italy, year 1932

This function presents the following distribution of density:

$$f(x)=C \cdot x^A \cdot (V - x)^B \quad [1]$$

where A, B and C represent the parameters of the function, while V indicates the variable transformation. This function, originally used for the representation of the function of survival^(*) is expressed by the relation:

$$f(X) = X^A \cdot (V - X)^B \cdot e^{M \cdot X^2 + N \cdot X + P} \quad [2]$$

which, in reduced form, can be adapted to the distribution of fertility rates.

(*) Petrioli L. (1981), "A new set of models of mortality", Seminar IUSSP, Dakar, Senegal, July 7-10..