# Models of Population Growth

There are theories relating to population growth and food supply, and population growth and economic development. One suggest that human population if not managed or controlled will grow exponentially for example 1, 2, 4, 8. Whilst food supply only has the ability to increase arithmetically will may result in famine and ultimate death (Thomas Malthus).

Thomas Malthus and Esther Boserup and two key players in detailing models of population growth in relation to resources.

Population density is calculated by dividing the total population of the region or country by the area of that country

TP/Area (KM)

As population begins to grow whether arithmetically or exponentially resources become strained, as a result two theorists have proposed models with varied suggestions as to how an increasing population may impact resources.

Esther Boserup has an opposing view to Thomas Malthus as it pertains to population growth and resources. After all she is the backbone behind the saying "necessity is the mother of all invention"