

Human in his essay  
"an essay on



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Human population is a key element in political ecology, because human beings have a direct influence and impact on the environment.

Overpopulation to be specific have been a core topic for debate in these past years. The impacts of population growth are perceived differently by different people whether it is good or bad for natural resources and the environment, and this is with an underlying concept of the earth's carrying capacity. At the core of the relationship debate between population, scarcity and innovation, lies the question: can earth sustain 7.6 billion or more people? How one answers this question depends greatly on whether one sees population as a problem or not. Two main theories have stood the test of time, one by Thomas Malthus in his essay "An essay on the principles of population" published in 1798 offers a pessimistic view about the relationship.

While an alternative argument coming from Ester Boserup in 1965 through her book "The conditions of Agricultural Growth: The economics of agrarian changes under population pressure" is an optimistic view about population growth, seeing it as the mother of all invention. Malthus' view is that the capacity of population to grow is greater than the carrying capacity of the earth resulting to scarcity (Robbins, Hintz & Moore, 2014). His argument was since human beings/animals have the desire to reproduce naturally, therefore, he proposes that human population grows exponentially by doubling with each cycle while food production is fixed or grows at an arithmetic rate by the repeated addition of a uniform increment of a natural resource in each uniform interval of time for example addition of agricultural lands. Hence to Malthus population growth and the provision of food will never meet and be balanced. His belief is that since earth's resources are

finite population growth will always outpace food production resulting to scarcity of natural resources.

A growing population leading to depletion of natural resources, Malthus believed it could be addressed by increasing land to plow (Robbins, Hintz, 2014, p. 15), this meant for every birth there should be conversely an increase in agricultural lands. However, Malthus also argued that if earth's resources are constrained mother nature retaliates.

Given such a scenario he saw Earth's resources as a provider of the most definitive and powerful limits for human growth and expansion such as wars, famine, disease and destitution. These natural limits act to provide checks and balances to human exponential growth. Moreover, Malthus argued that policies that promote the poor's welfare are counterproductive since he believed that the poor have the high fertility rate and that they encourage unnecessary reproduction. Hence self-control and restraint are a solution to resource scarcity.

China with its one child policy in the 1970s is one good example of this Malthusian belief. China implemented this radical preventative check to control its demography effectively from a fertility rate of 2.9 in 1979 to 1.

6 in 2012 (Robbins, Hintz & Moore, 2014, p. 20), however this is associated with its on present day challenges that I will not mention in this answer.

Taking all into account Malthus' view is that scarcity limits growth, In contradiction Ester Boserup had a counter argument for Malthus. Boserup "1981" believed that "necessity is the mother of invention" (Rogers, 2008).

She supported this view by making a claim that this reaction can be depicted from earlier periods of history, the need to feed a larger population led to technological changes from one society to another or to the invention of new technologies and tools. She further argued that carrying capacity of an area expands due to autonomously occurring inventions, to achieve this she suggested agricultural/induced intensification (Robbins, P., Hintz, J., Moore, S. A., 2014). This view means that with the rise of population there is a rise in demand for food production and this would lead to innovation or a search for alternatives to produce more with less. This is historically and present day evident as more food is produced from less land for example the green revolution.

Robbins et al. (2014) defines the green revolution as technological innovations. To Boserup the green revolution is the answer to scarcity. The practice of the green revolution in the past and present day using genetically modified seed and sophisticated machinery demonstrates Boserup's theory that advances/ innovations will be made to increase food supply. Demographic pressures such as population density promotes innovation and higher productivity in use of land e. g. irrigation, weeding, crop intensification, better seeds and labour e.

g. tools and better techniques. Hence an increase in population will stimulate humanity to look for alternatives to come up with ideas to increase food production to meet the demand rather than to be limited by natural limits to growth as argued by Malthus. Several papers, based on different case studies around the world, provide empirical evidence that both Malthus and Boserup theories processes co-exist. Malthus's solution to <https://assignbuster.com/human-in-his-essay-an-essay-on/>

scarcity is by avoiding population growth while Boserup suggests taking advantage of the growth by intelligence that comes with every birth.

However, to me these two theories are not antagonistic theories rather they compliment each other. I argue that the Malthusian theory predicts that the size and growth of a population poses some constraints to natural resources and this contrarywise presents some limitations to necessities/resources for human survival and Boserup is presenting a solution to these limits. Hence Malthus predicts scarcity and Boserup presents induced intensification as a solution to scarcity of resources.