Topic 5: Population Growth: Historical Patterns, Causes, and consequences

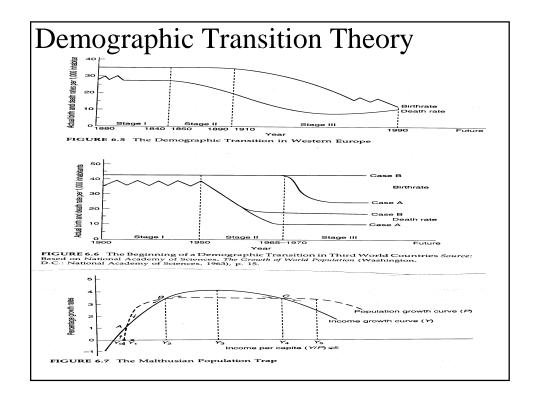
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Objectives of this topic

Main objectives of this topic are:

- ◆ To understand the current demographic transitions that most countries went through over time.

 (Demographic Transition Theory)
- ◆ To find socio-economic reasons for the patterns of demographic transitions that most countries went through. We consider a macro model by Malthus and then we do household model of fertility choice.
- ♦ We then discuss (in class debate fashion) the consequences of population growth – good and bad and the political and economic aspects of population growth.

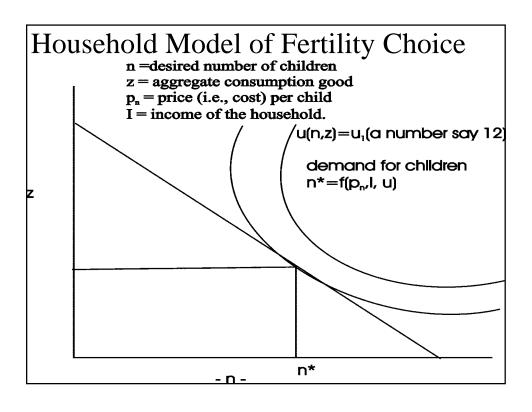


Household Fertility Choice Model

- ◆ We consider a simple model to understand the following commonly observed facts:
- The fertility rates are high in poorer countries.
- ◆ We use their characteristics that we discussed in the beginning of the course, namely:
- ♦ Low wages and employment options for women
- Low education of women.
- High infant mortality rate.
- Weak laws on compulsory schooling and child labor.
- ♦ Large agricultural sectors.
- ◆ Weak or completely absent social security and disability pension system.

Components of child-cost or child price.

- ♦ The components of child cost includes:
- ◆ 1) mother's time (child care costs, foregone income etc.)
- ◆ 2) cost of pre-school, school both direct and opportunity costs (child labor)
- ◆ 3) cost of health care (preventing infant mortality, morbidity)
- ♦ 4) cost of goods (food, diapers etc.) required in raising a child.
- ♦ 5) future transfers from children to parents (old age security etc.)



Policy Analysis

- ♦ Using the previous diagram let us understand what happens to demand for children and the observed number of children for each of the following cases:
- ♦ Income effect and substitution effect.
- ♦ If household has higher income, because father has higher income.
- ♦ If household has higher income
- ♦ There are many more.