

History of the Human Population

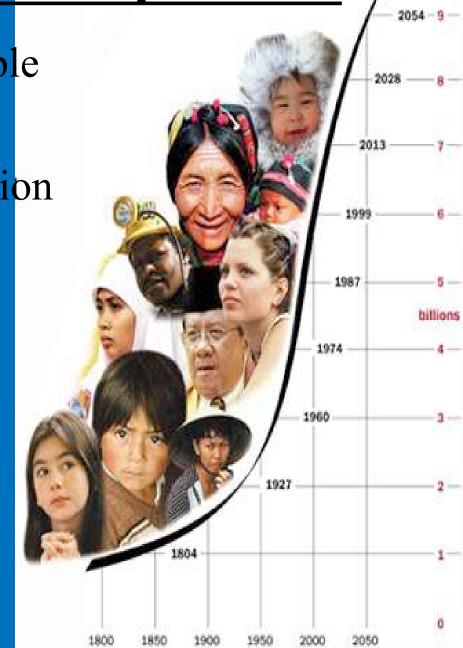
• \_\_\_\_\_ - 500 Million people

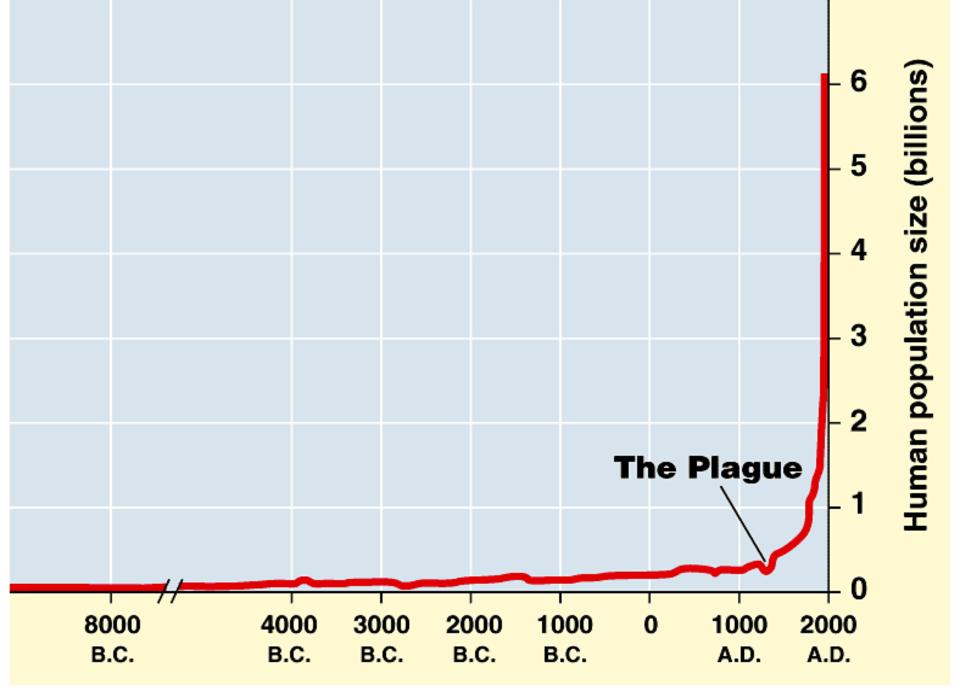
• \_\_\_\_\_ - 6 Billion

Prediction: 2050 – 10 Billion

2100 – 12 Billion

 Human population has the potential to increase much faster than the food
 supply.





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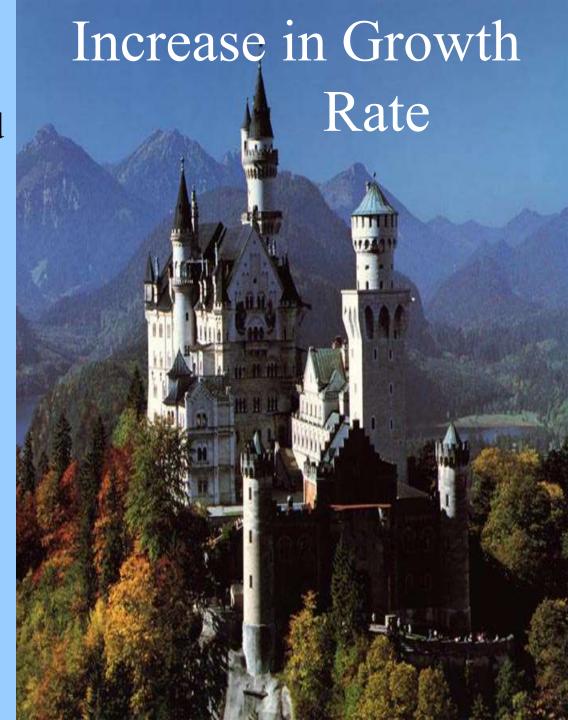
# crowded **wor**

If China's car ownership matches that of the USA, it will need 80 million barrels of oil a day

Dr Norman Myers

and \_\_\_\_\_, \_\_\_\_, prevented people from living long lives. (35 Old Age)

 Permanent settlements led to protection, less starvation and increased population size.



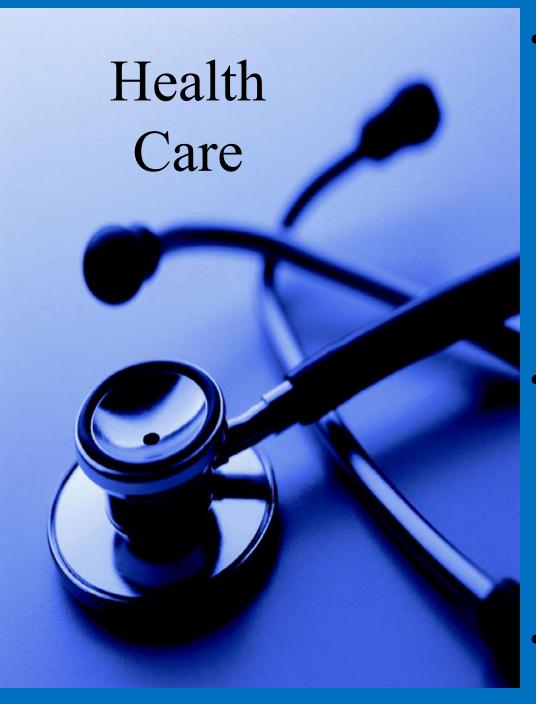


- shift from harvesting wild food sources to producing food through the techniques of farming and herding.
- Farming communities provided steady food supply, which increased population.
- Death rates decreased and increased life expectancy.



- Technological advances have improved food production and distribution, shorted the work day, and provided safer work environments.





methods of waste disposal, and water treatment are responsible for reducing the death rate.

 Life-threatening diseases were wiped out or controlled by the discovery of antibiotics and vaccines.

• Infant death rates decreased significantly.

# Declines in Growth Rate Disease

- claimed 25% of the adults in Central Europe and Asia.
- The denser the city, the faster the disease can spread.
- Other:, typhus, malaria, yellow diseases fever Cholera, and smallpox.



#### Famine

- Irish Potato Famine of 1840, more than 1 million deaths.
  - Potato Main food supply
  - Potato Crop destroyed =Severe Starvation

• China 1877-1888, 9 million deaths

## War

- Tribal and Civil Wars
- World War I = 21.5 Million

#### Deaths

• World War II = 35 - 60

#### Million Deaths

• Combat, disease, environmental destruction, and starvation all lead to deaths during war.



## 13.2 Growth and Changing

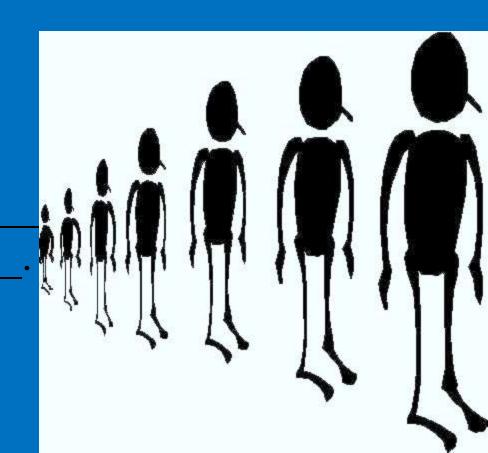


## Growth and Changing Needs

• Environmentalists believe that overpopulation in one of the most serious problems we face.

Environmental problems
 may never be resolved

unless



#### Measuring Growth Rate

• Housing, Food Supplies, Jobs, Education, Water, Energy, and Health Facilities will suffer due to population increasing.

- Immigration –
- Emigration –

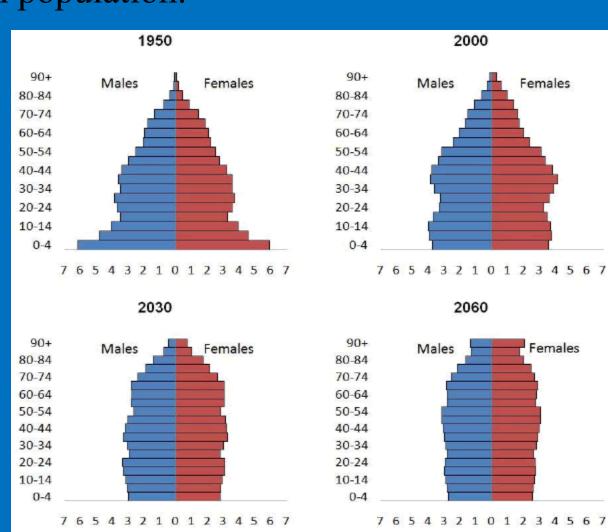
#### **Demography**

• \_\_\_\_\_ – the science of the changing vital statistics in a human population.

Population Ages:

India-GrowingRapidly)US-Slow GrowthJapan-No Growth

•Changes in population effect energy consumption



### Changing Needs

• Industrialized Societies use more resources than underdeveloped societies.

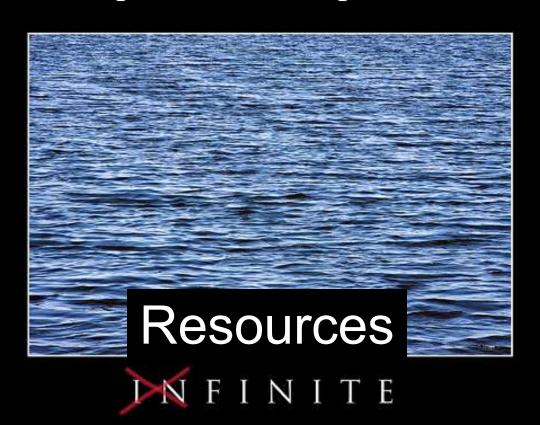
• The least developed nations are predicted to experience the

greatest increase

in population during

the coming decades.

-Their needs are expected to increase faster than the population.



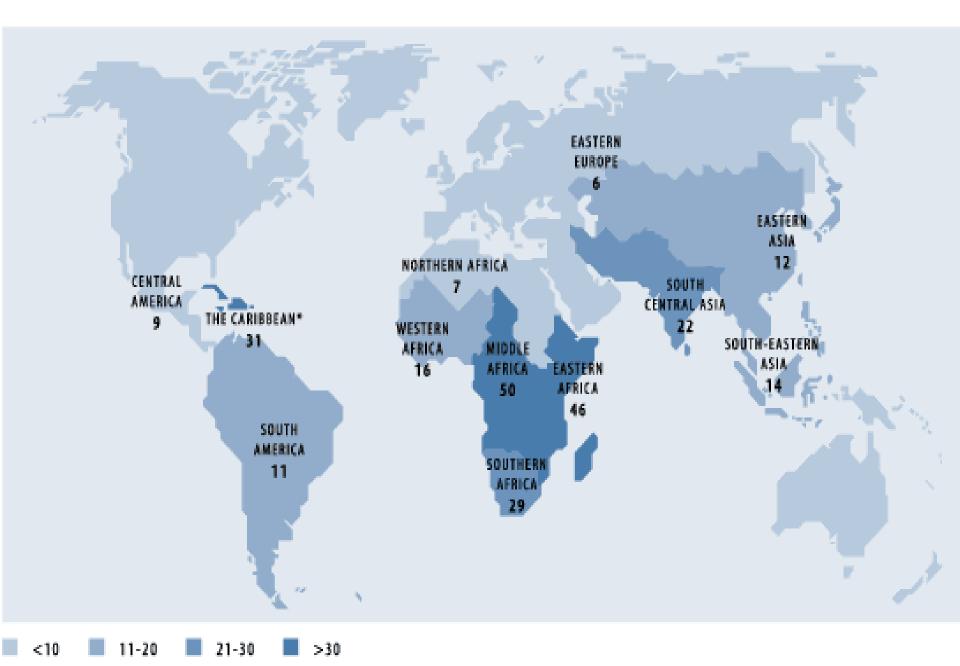


#### Challenges of Overpopulation

- Demands on Resources, minerals, fuels, and food.
- Lack of Space and Forests
- Pollution Air, Water & Land
- Human Health Problems Diseases, Malnutrition, Poor Hygiene, and lack of Medical Facilities.
- Habitat Loss



#### FIGURE 3: PERCENTAGE OF POPULATION UNDERNOURISHED, BY SUBREGION, 1996-1998



Source: United Nations Population Division

<sup>\*</sup>Caribbean average is skewed by high malnourishment in Haiti.

#### **Controlling Population Size**

• Decreased populations (Bulgaria & Hungary) have to deal with a weakening economic and military strength.



•Limit Family Size

#### Is Technology the Answer?

• New Energy Resources, Genetic Engineering, and other scientific breakthroughs may aide with overpopulation.

• Earth can only support certain amount of people on the planet.

