

# Geografi Penduduk



➡ Geografi?

➡ Penduduk?

➡ Teba:

- Sejarah asal usul manusia
- pertumbuhan, kepadatan dan persebaran penduduk
- interaksi penduduk dengan sumberdaya alam



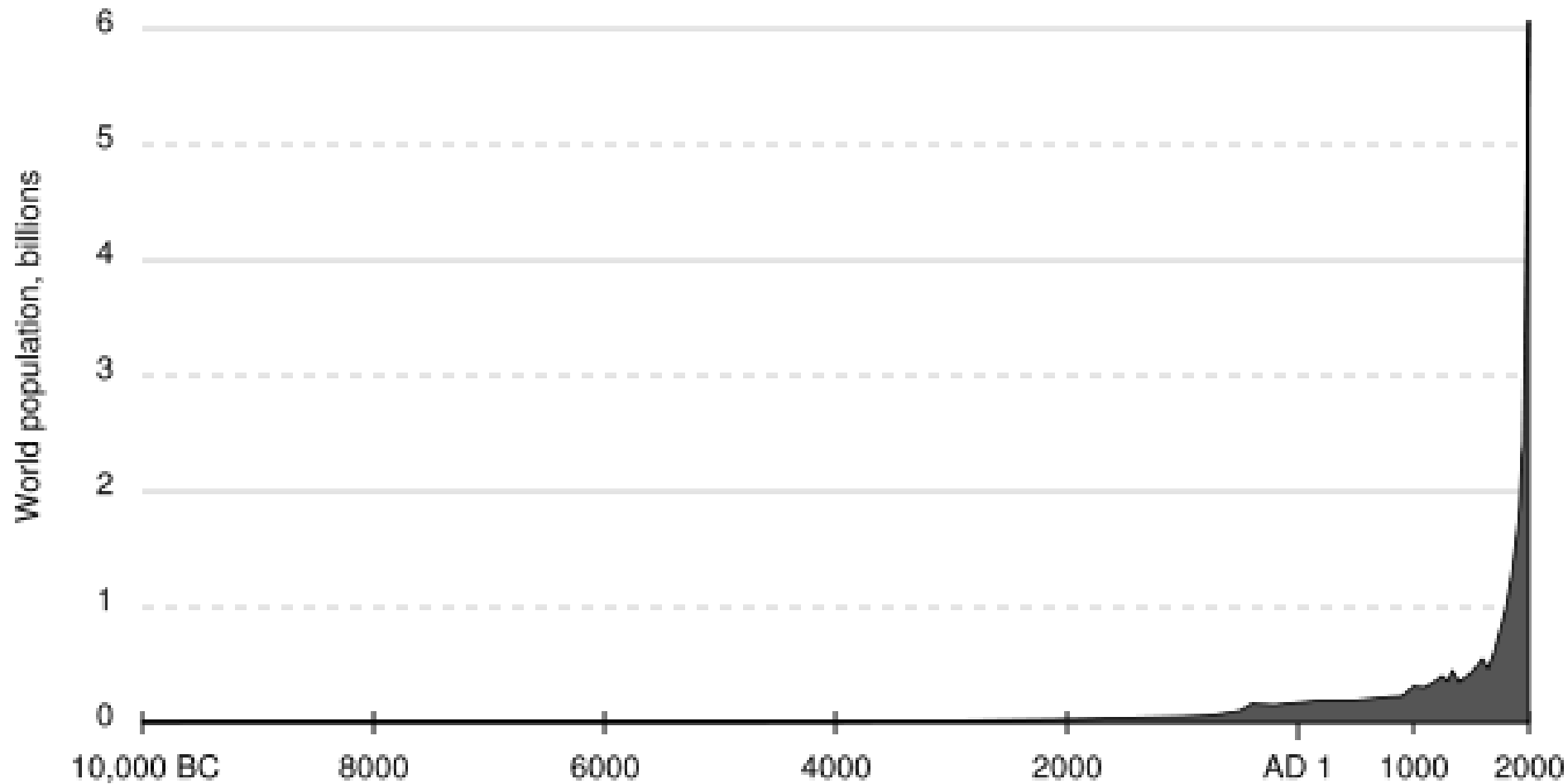
# World Population Distribution, 1998



Winkel Tripel Projection

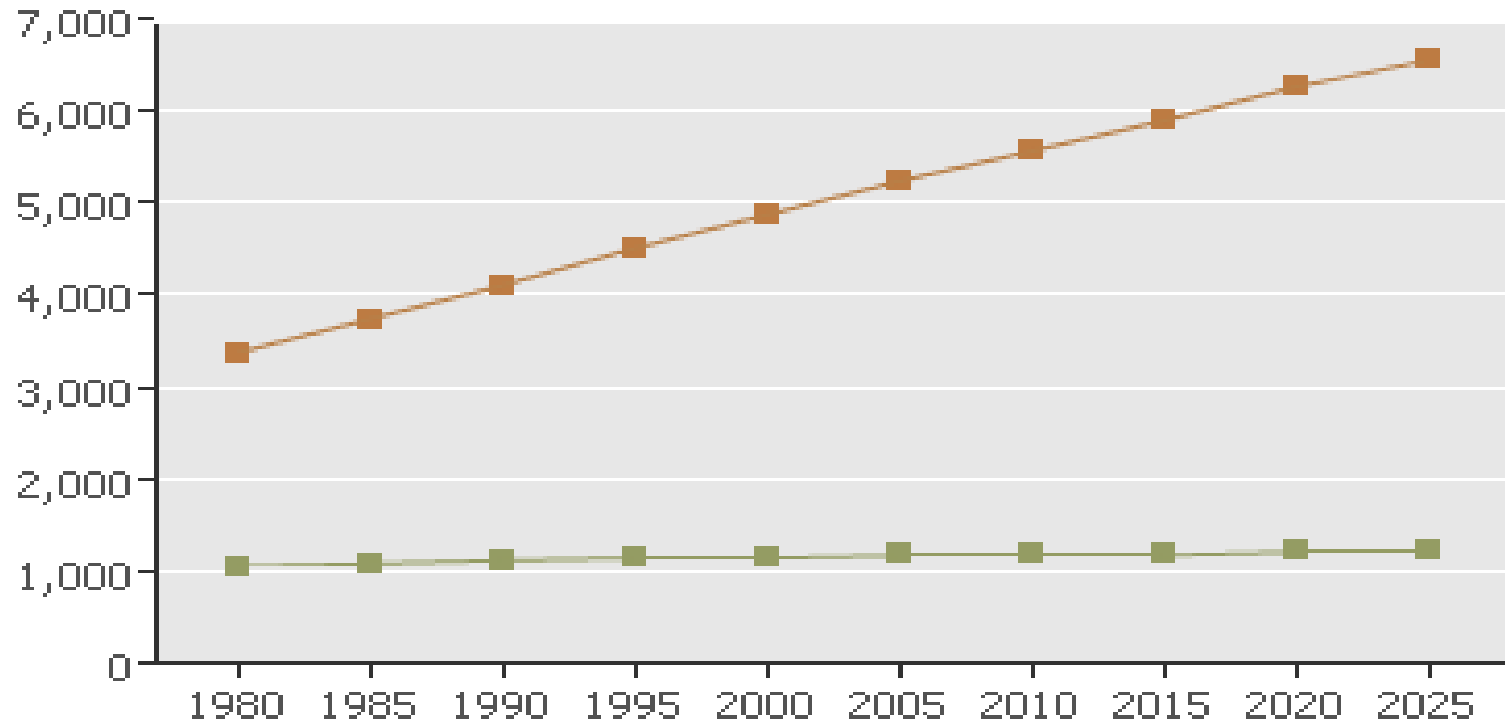
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# Pertumbuhan Penduduk Dunia



# PERTUMBUHAN PENDUDUK DUNIA

People (in millions)

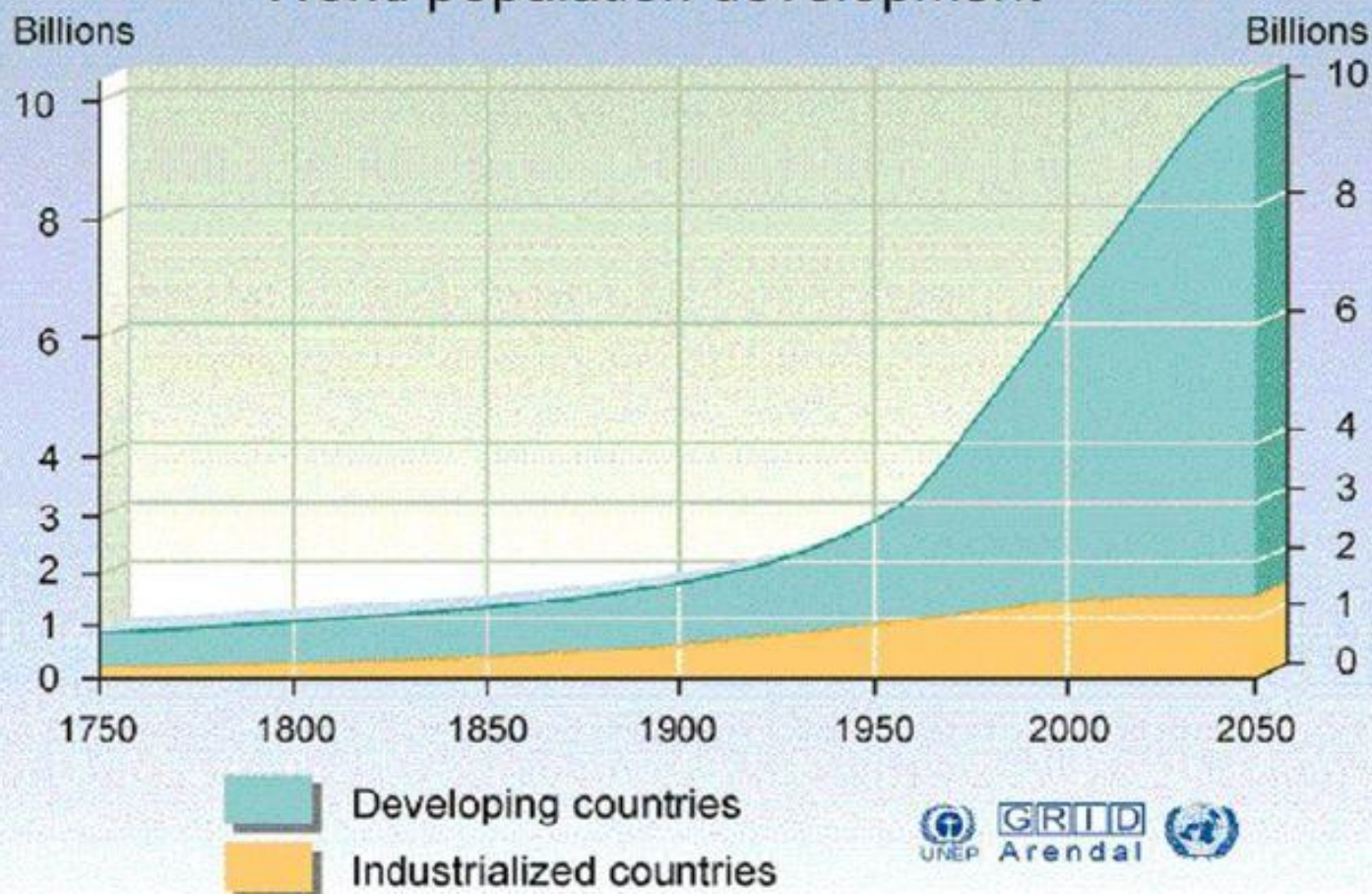


Less developed countries (population)

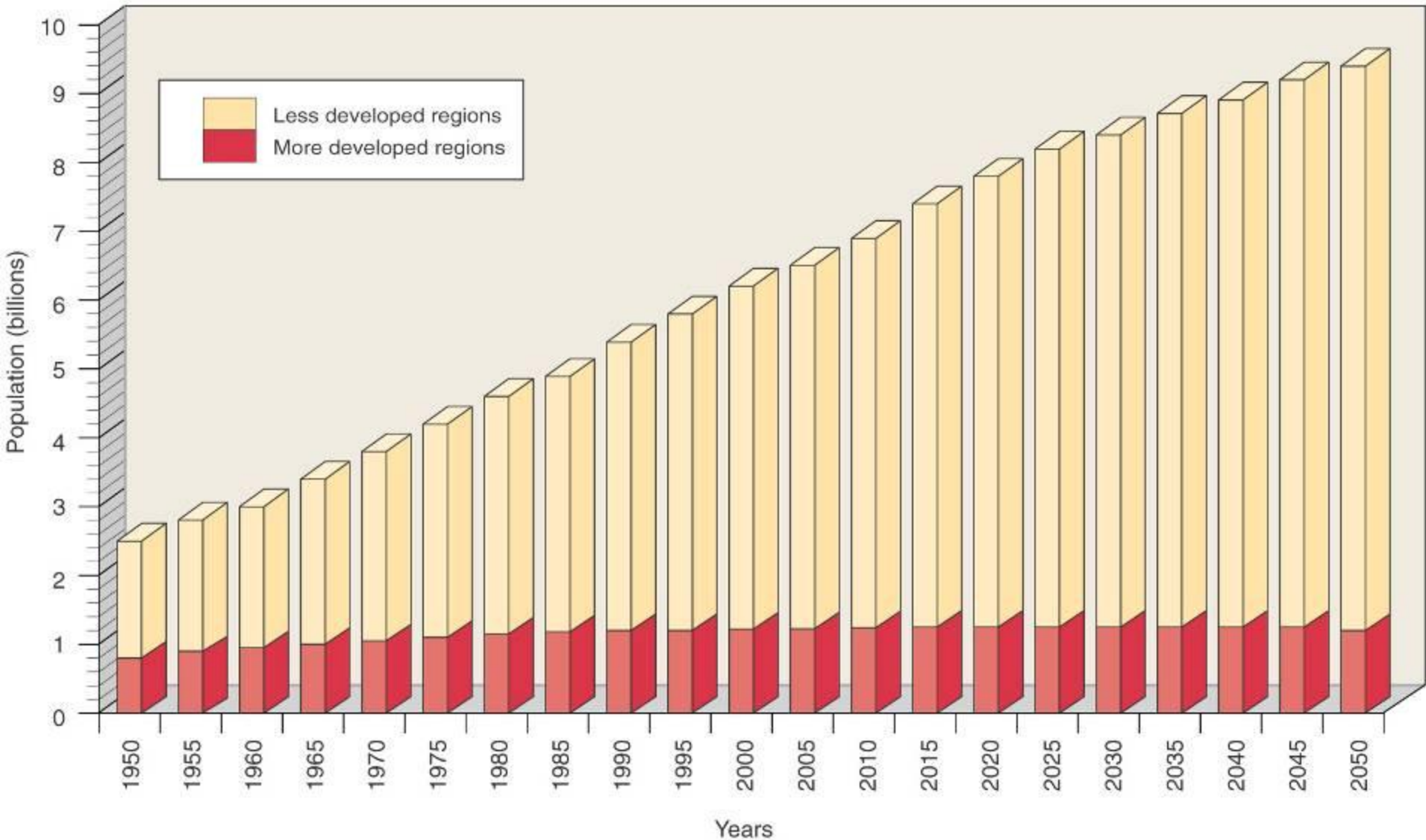
More developed countries (population)

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# World population development



# Population Shift



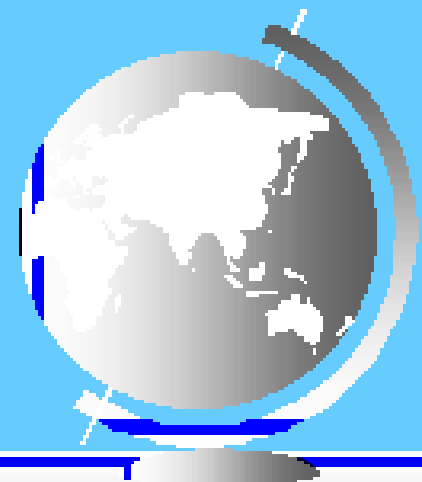
# Population Distribution

## ◆ Population Concentrations

- East Asia
- South Asia
- South East Asia
- Europe
- North America

## ◆ Sparsely Populated Regions

- dry lands
- wet lands
- high lands
- cold lands



# World and Country Population Totals

**Distribution and Structure: 3/4 of people live on 5% of earth's surface!**

Total: 6.8 billion on planet as of March 5, 2010

**Current World Population Counter from U.S. Census Bureau**

## Five most populous regions and countries

	REGION	POPULATION	COUNTRY	POPULATION
➔	East Asia	1.6 billion	China	1.3 billion
➔	South Asia	1.5 billion	India	1.1 billion
➔	Europe	1 billion	U.S.	300 million
➔	SE Asia	600 million	Indonesia	250 million
➔	E N. America & Canada	275 million	Brazil	188 million



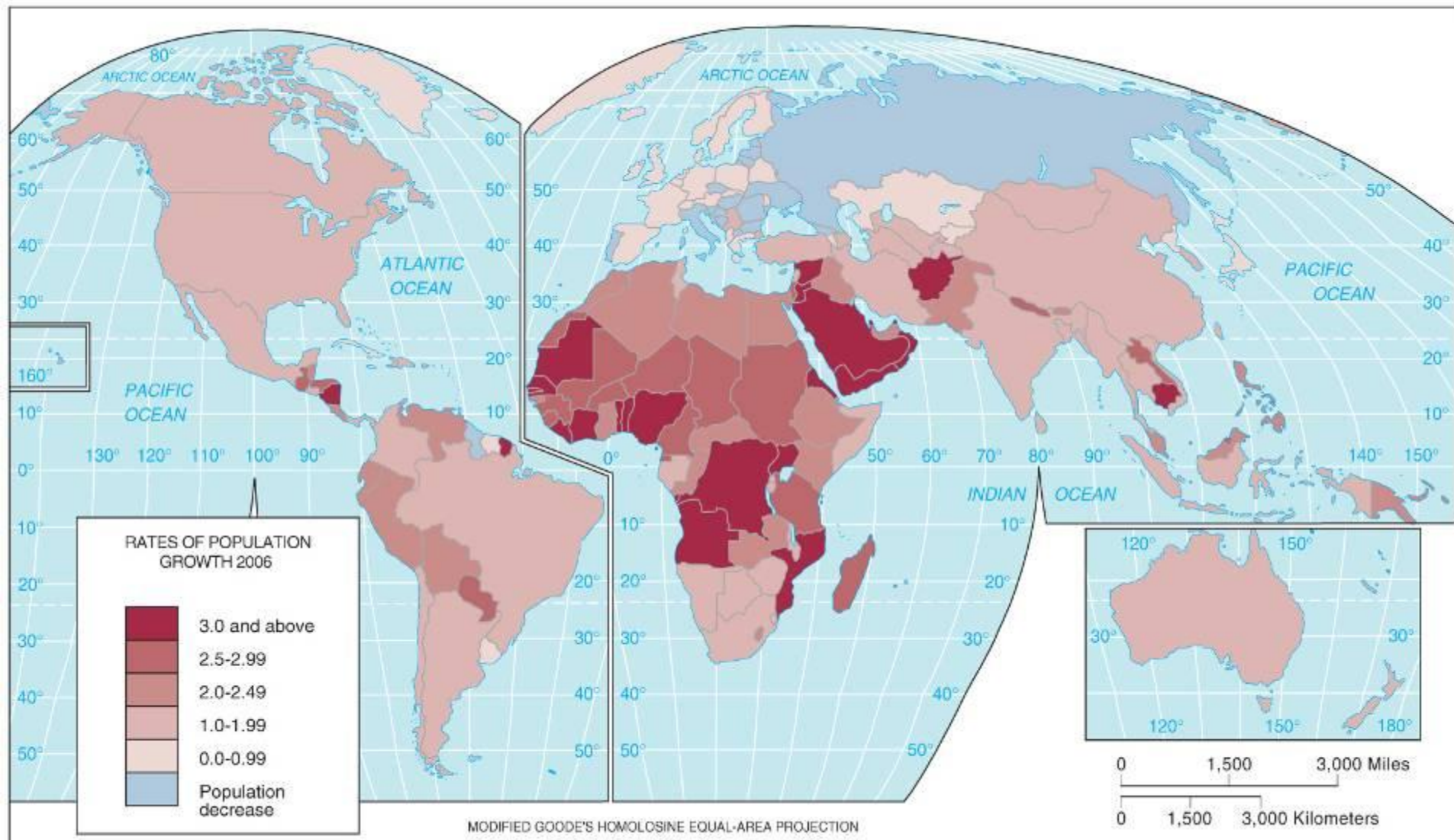




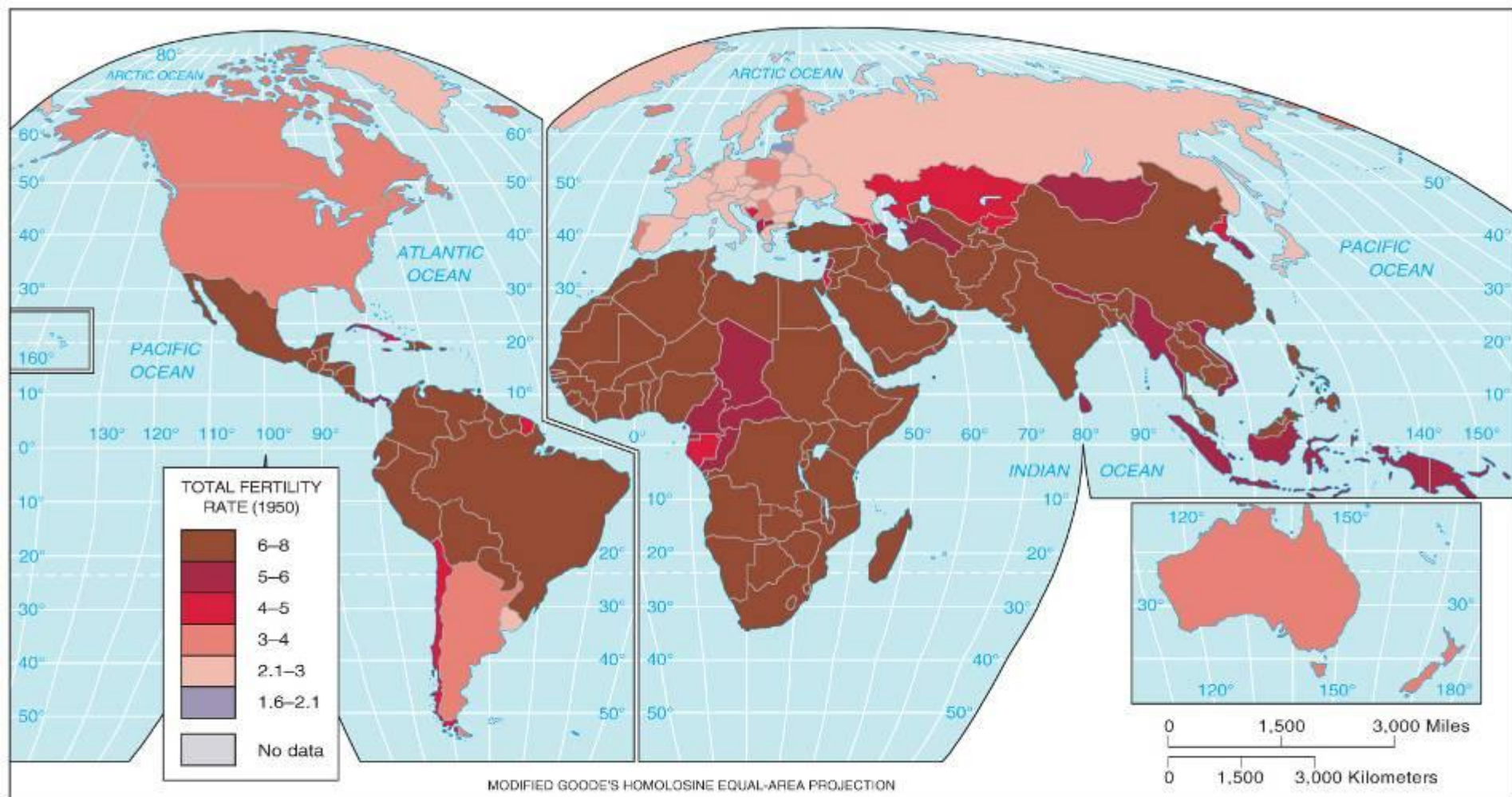
**Overpopulation** is when there are too many people relative to available resources. Simple density is not the determinant.



# Rates of Natural Increase



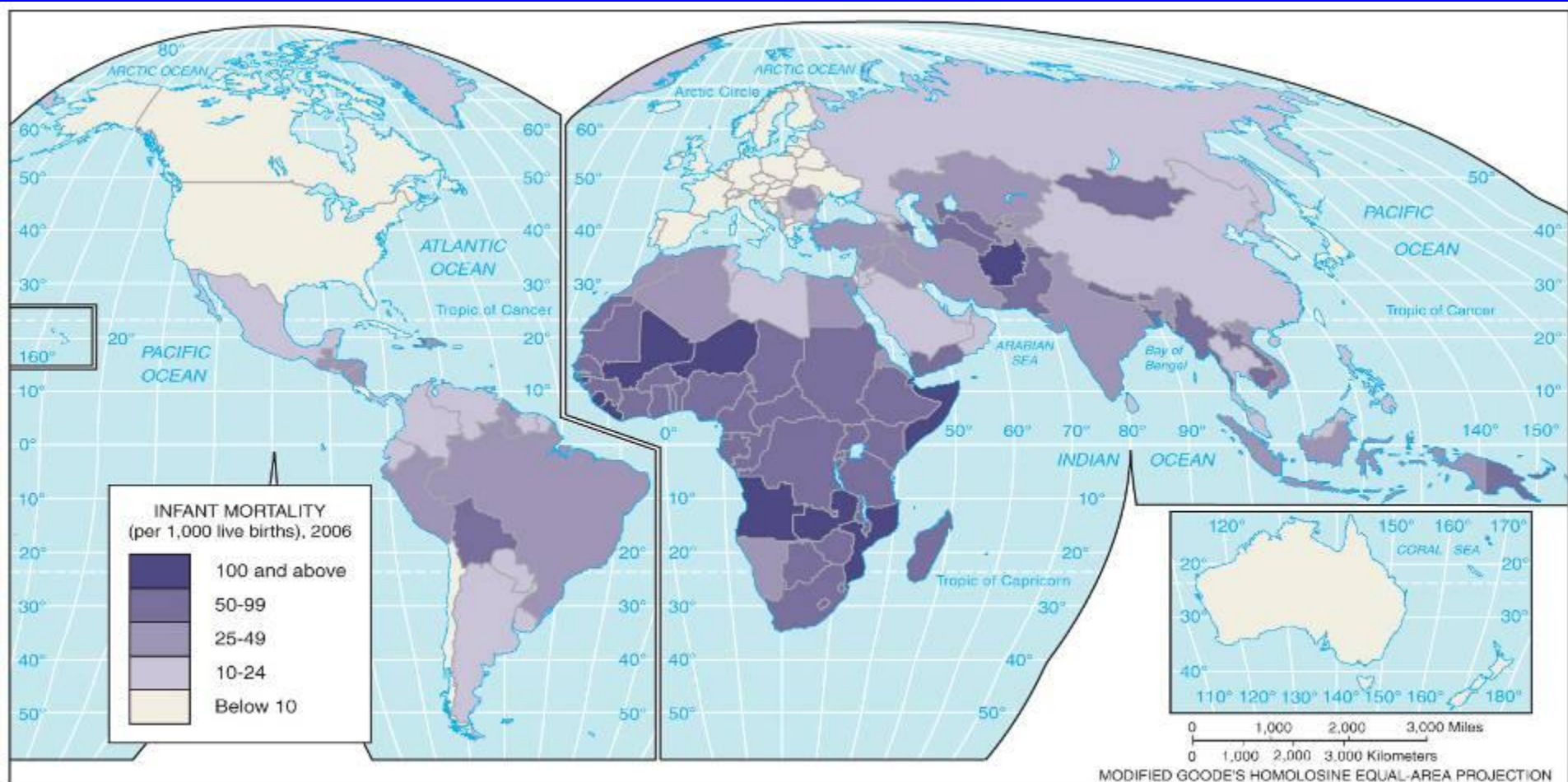
# Total Fertility Rate



(a)

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**Infant Mortality Rate** – the number of deaths of children under the age of one *per thousand live births*. The rate ranges from as low as 3 (Singapore, Iceland) to as much as 150 (Sierra Leone, Afghanistan). The U.S. rate is just over 6. High *infant mortality* tends to result in higher fertility rates as families seek “insurance” for the loss of children.



**Total Fertility Rate** - the average number of children a woman will have in her childbearing years. This rate varies from just over 1 (Japan, Italy) to around 7 (Niger, Mali). The U.S. rate is 2.

Palestinian Territories	Fertility Rate
1975-1980	7.39
1980-1985	7.00
1985-1990	6.43
1990-1995	6.46
1995-2000	5.99
2000-2005	5.57

2.1 is generally regarded as the replacement rate (the rate at which a population neither grows nor shrinks) in the developed world. In less developed countries this rate should be higher to account for so many children not reaching childbearing age.

U.K.	Total fertility rate
1975-1980	1.72
1980-1985	1.80
1985-1990	1.81
1990-1995	1.78
1995-2000	1.70
2000-2005	1.66

Africa	Fertility Rate
1975-1980	6.60
1980-1985	6.45
1985-1990	6.11
1990-1995	5.67
1995-2000	5.26
2000-2005	4.97

# Doubling Time

- How long will it take for a population of a given area to double in size?
- Doubling time assumes the population will grow at a given annual rate
- Approximated by dividing the annual rate of population increase into 70



Source: National Geographic Magazine

World = 50

U.S. = 35

MDC = 550

LDC = 40

Honduras = 22

Denmark = 700

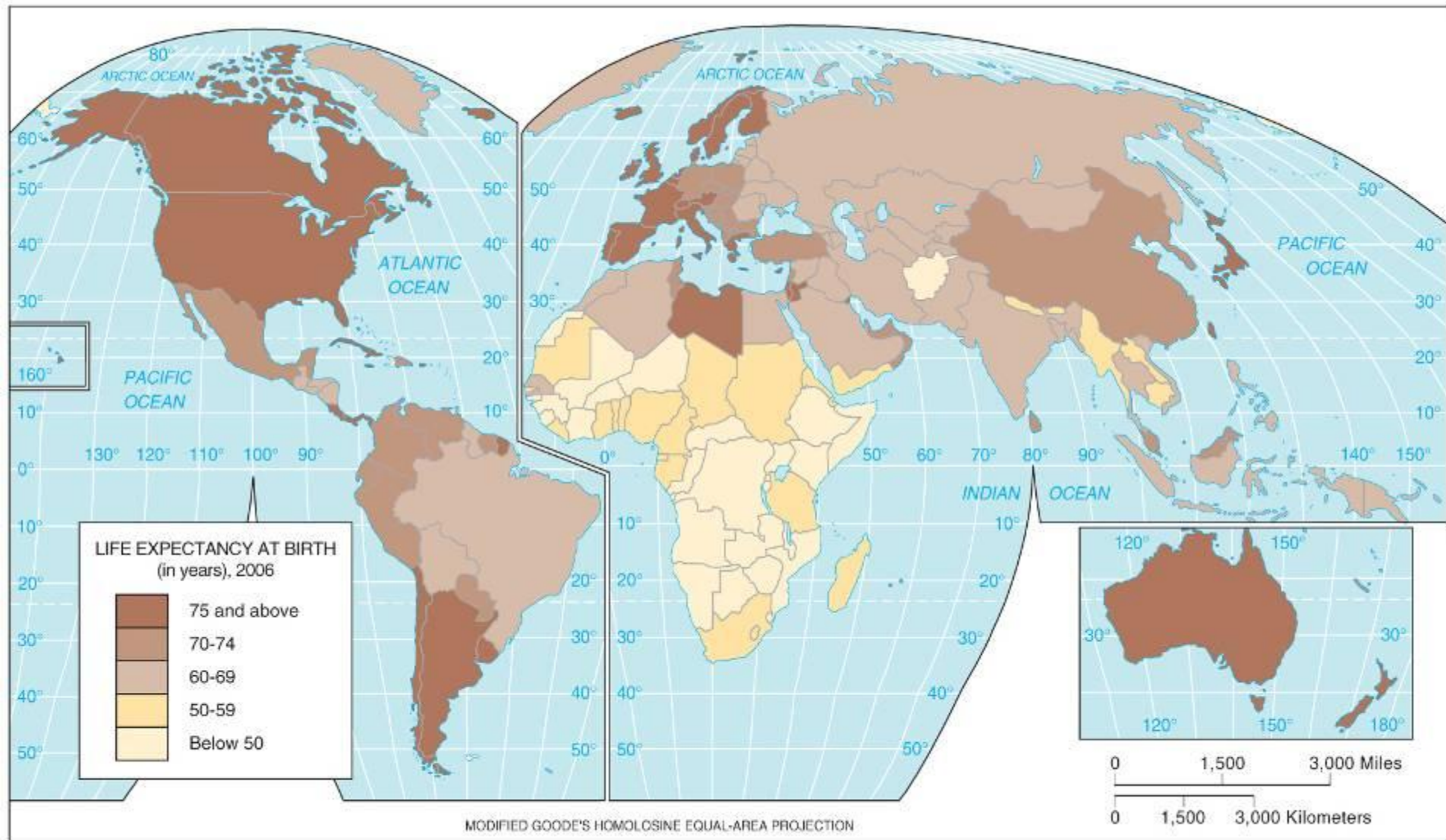
Russia = never?

Example: Bangladesh

$70 / R.N.I. \Rightarrow 70/2.09 = 33.5$  years

Bangladesh with a population of 144.3 million people in 2005 will have approximately 288.6 million people in 2038, if the population continues to grow at current rates.

# Life Expectancy



# Life Expectancy

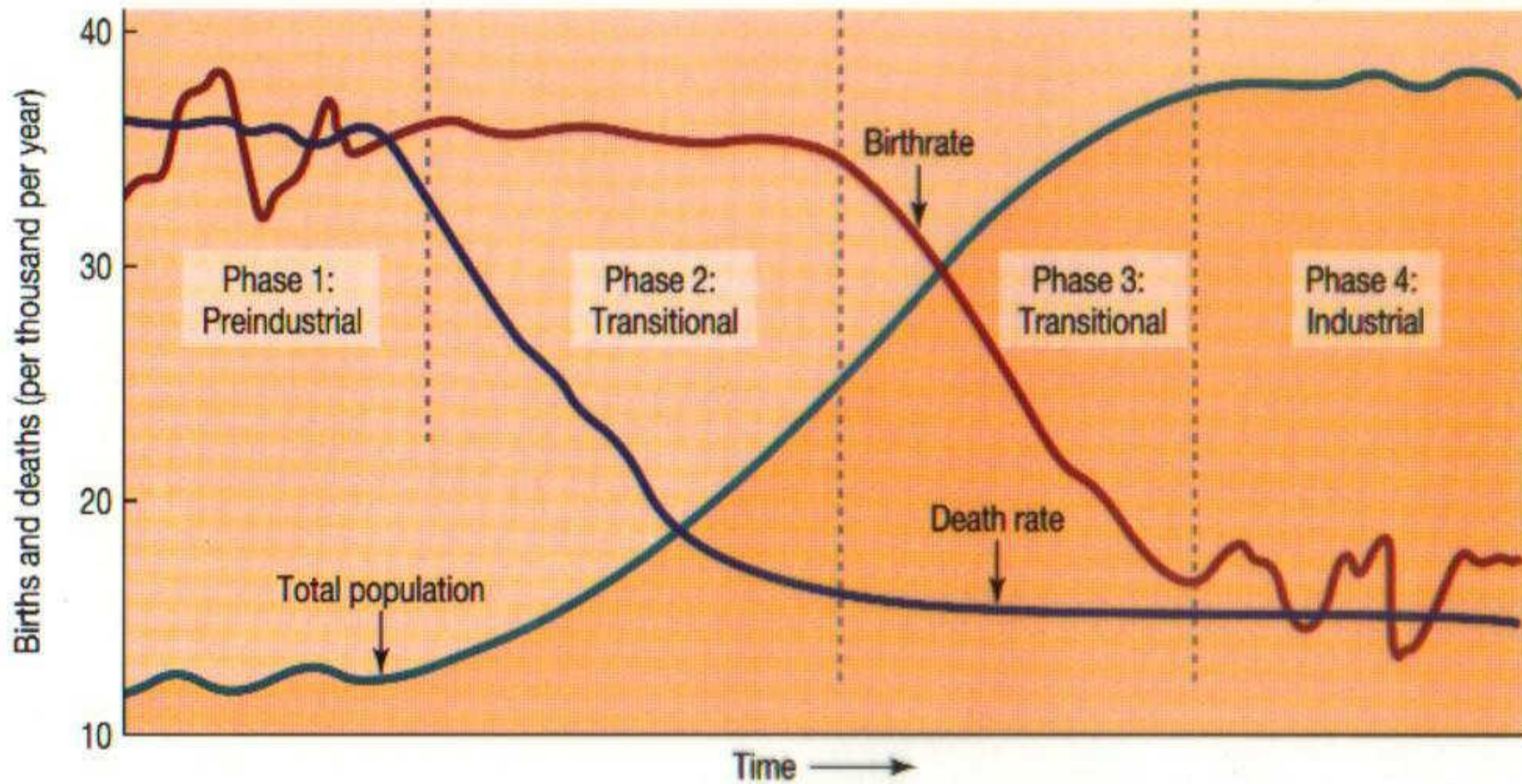


- Rapid increase throughout world
- Infant mortality rate declining in most countries
- Antibiotics/immunization





# Demographic Transition Model



# Demographic Transition Model

- **Stage one (preindustrial/pre-agricultural)**
  - Crude birth/death rate high
  - Fragile, but stable, population
- **Stage two (improved agriculture and medicine)**
  - Lower death rates
  - Infant mortality rate falls
  - Natural increase very high
- **Stage three (attitudes change)**
  - Indicative of richer developed countries
  - Higher standards of living/education
  - Crude birth rate finally falls
- **Stage four**
  - Crude birth/death rates low
  - Population stable
  - Populations aging



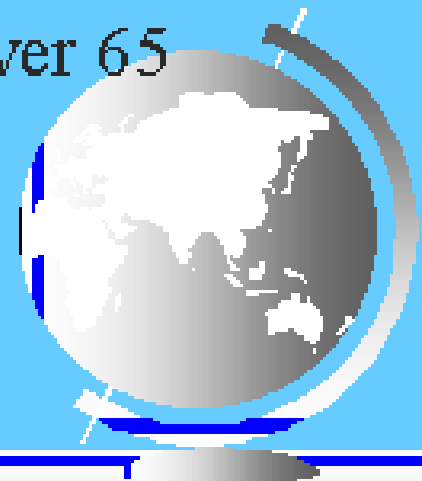
# Problems with the Demographic Transition Model

- based on European experience, assumes all countries will progress to complete industrialization
- many countries reducing growth rate dramatically without increase in wealth – TV and family planning seem to be at work
- on the other hand, some countries “stuck” in stage 2 or stage 3, particularly in Sub-Saharan Africa and Middle East



# Population Pyramids

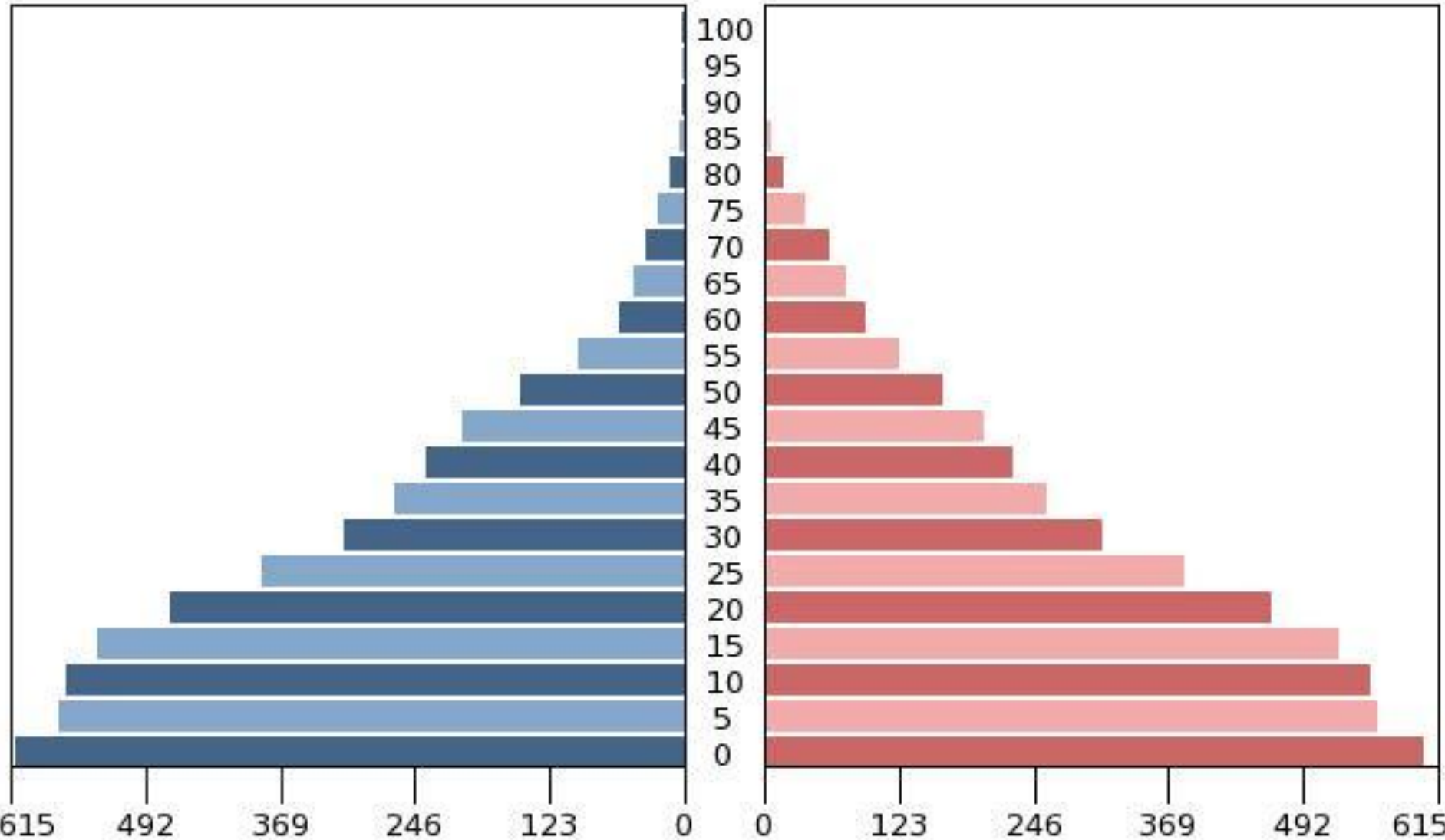
- ◆ Inverted bar graphs that show a wide population base (younger population) with a narrow top (older population).
- ◆ Population Pyramids show:
  - Age Distributions
  - Dependency Ratios of under 15 and over 65
  - Sex Ratio - Male vs. Female



Male

# Haiti - 2010

Female

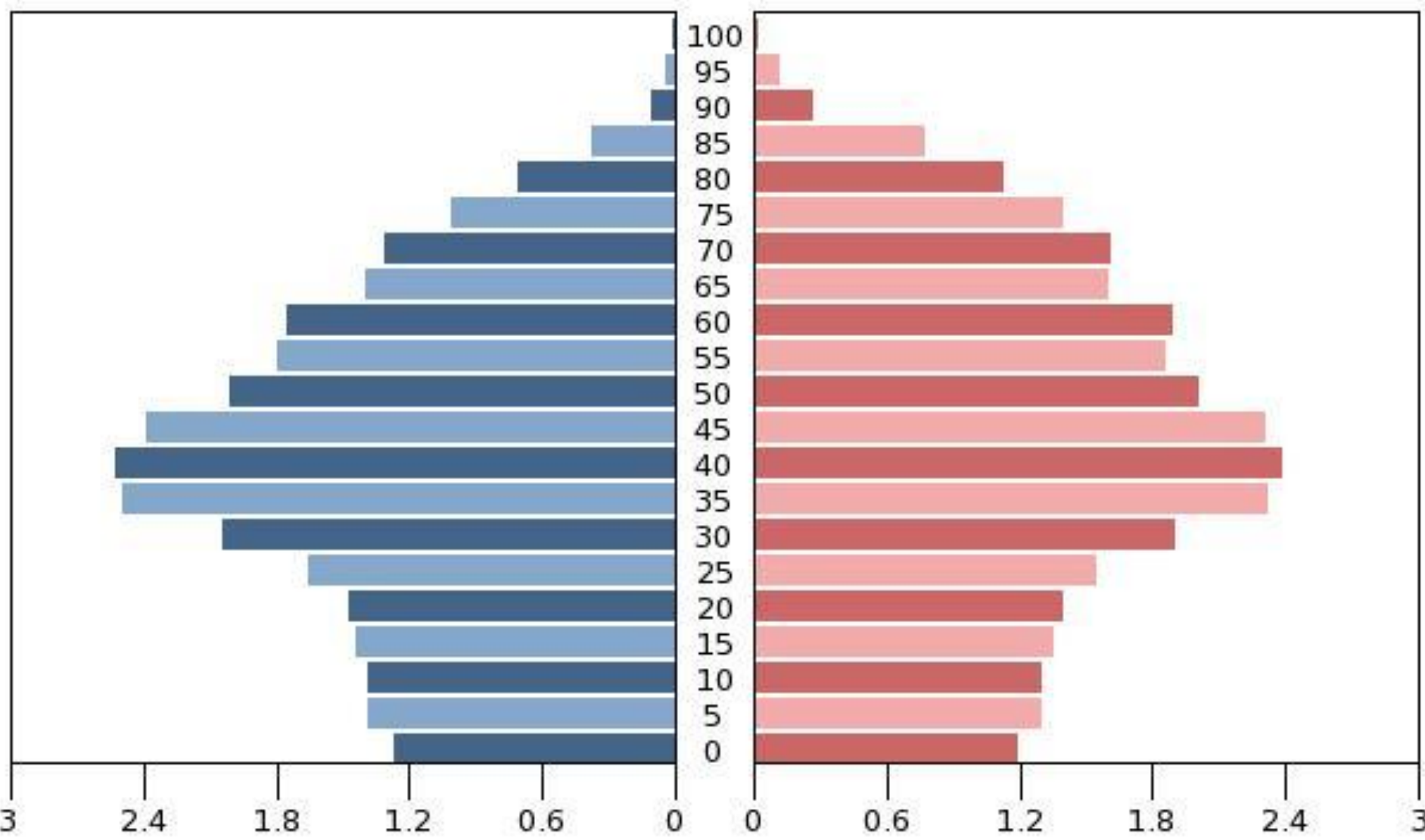


Population (in thousands)

Male

# Italy - 2010

Female

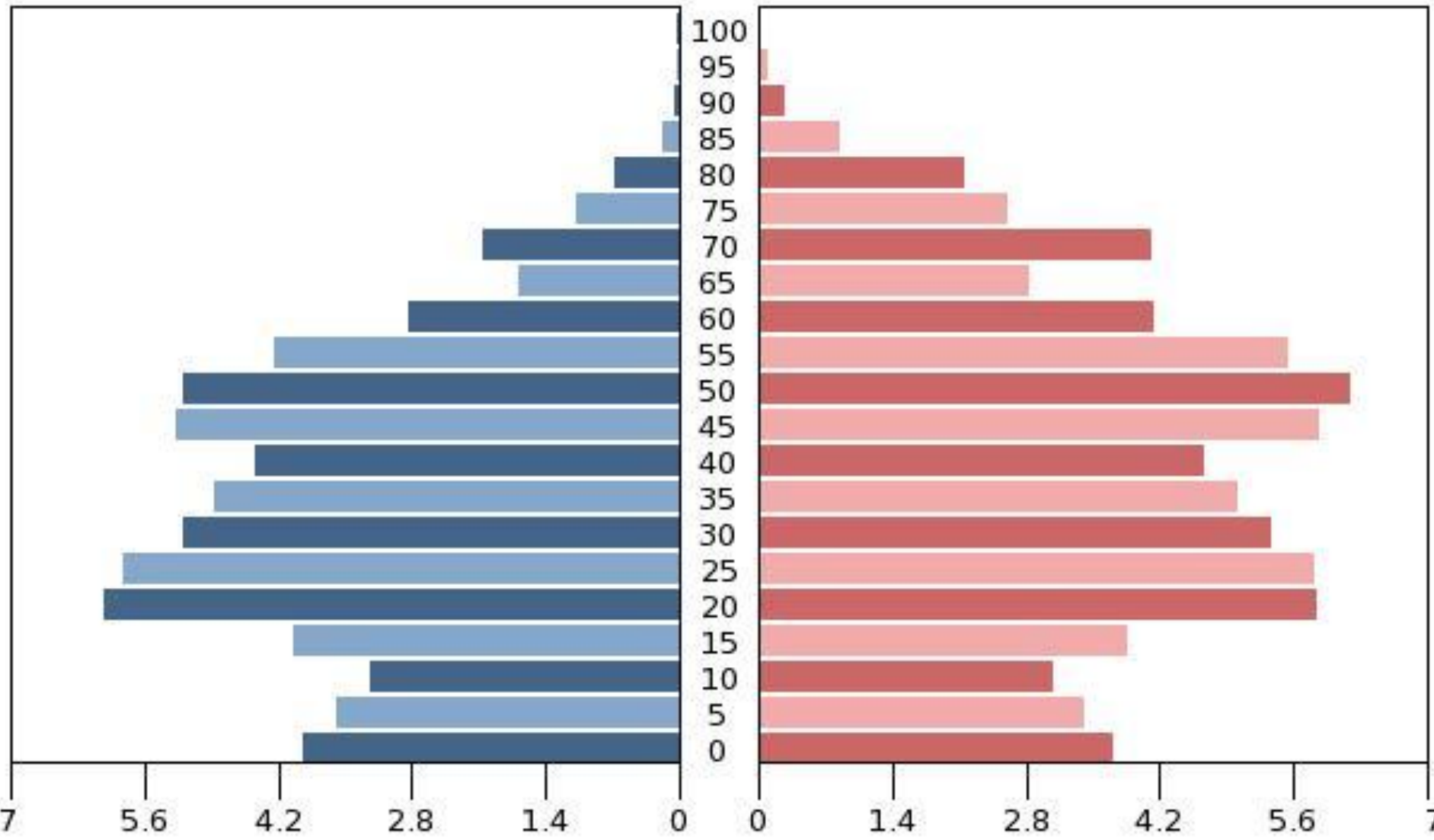


Population (in millions)

Male

# Russia - 2010

Female

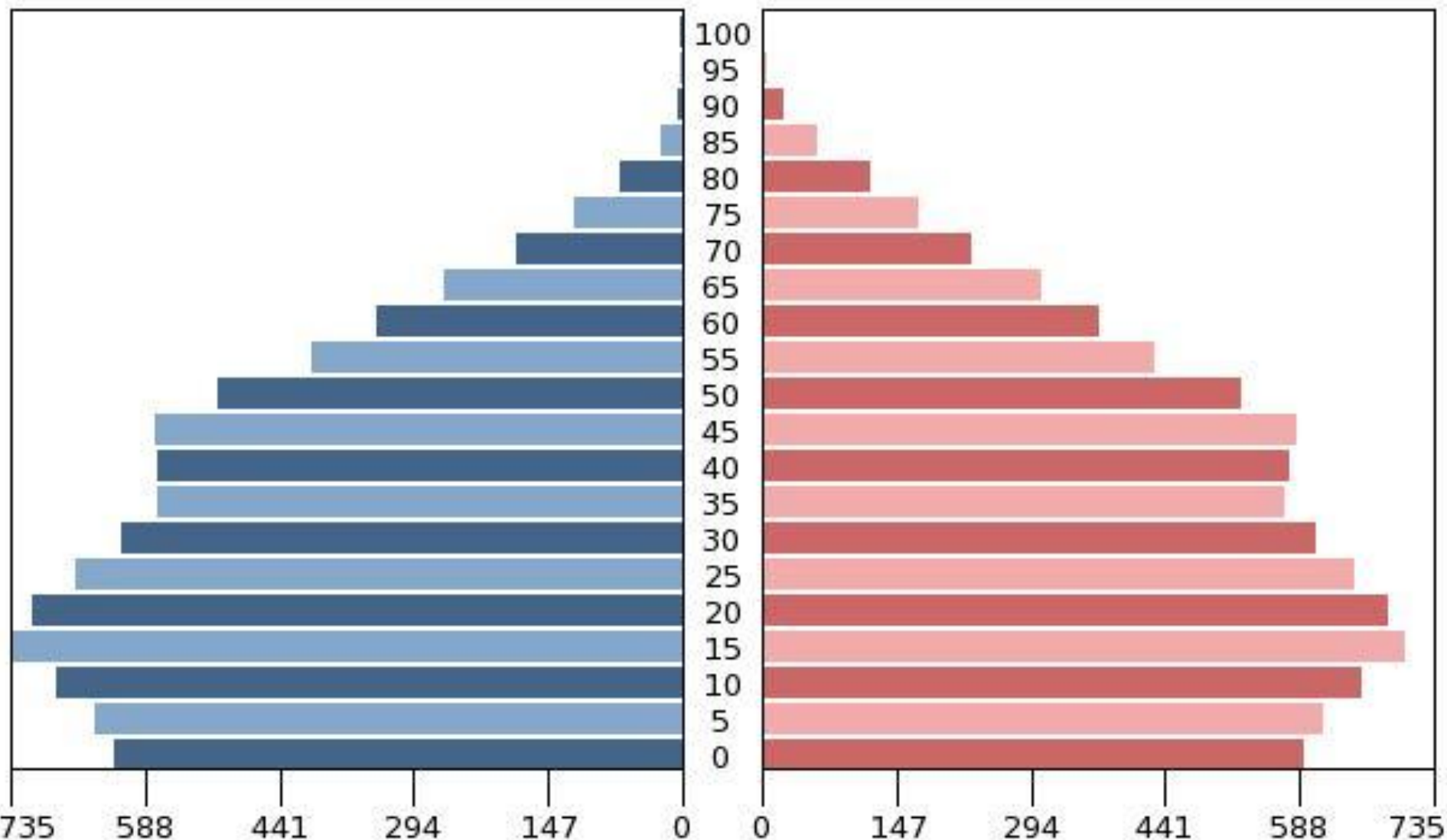


Population (in millions)

Male

# Chile - 2010

Female



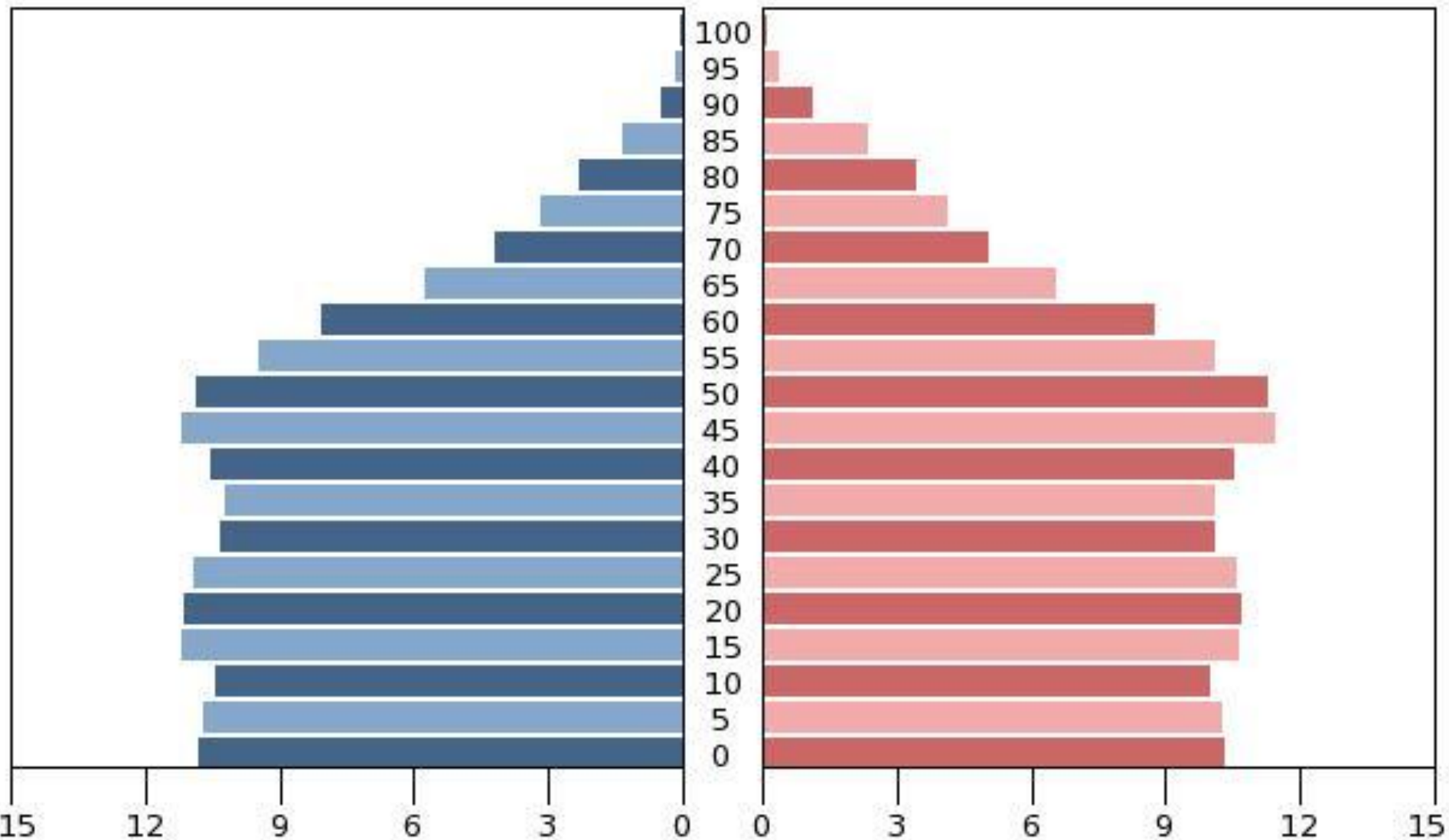
Population (in thousands)



Male

# United States - 2010

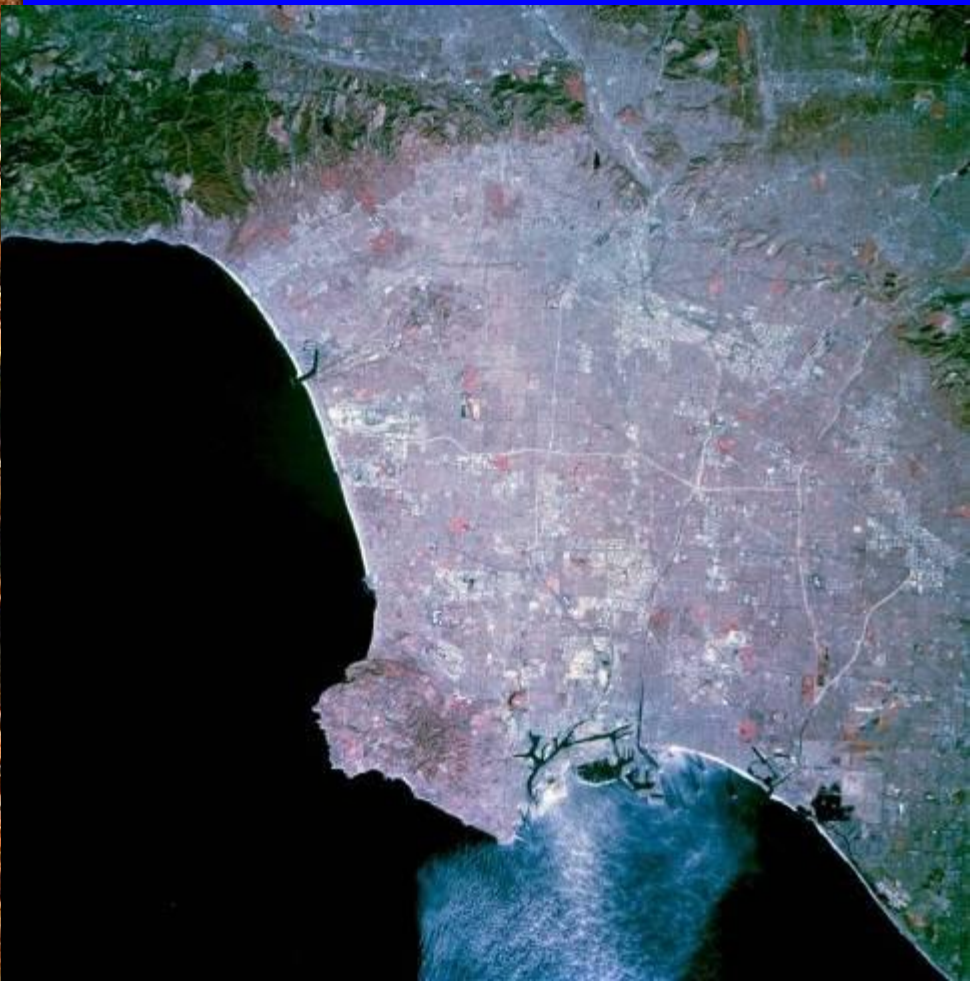
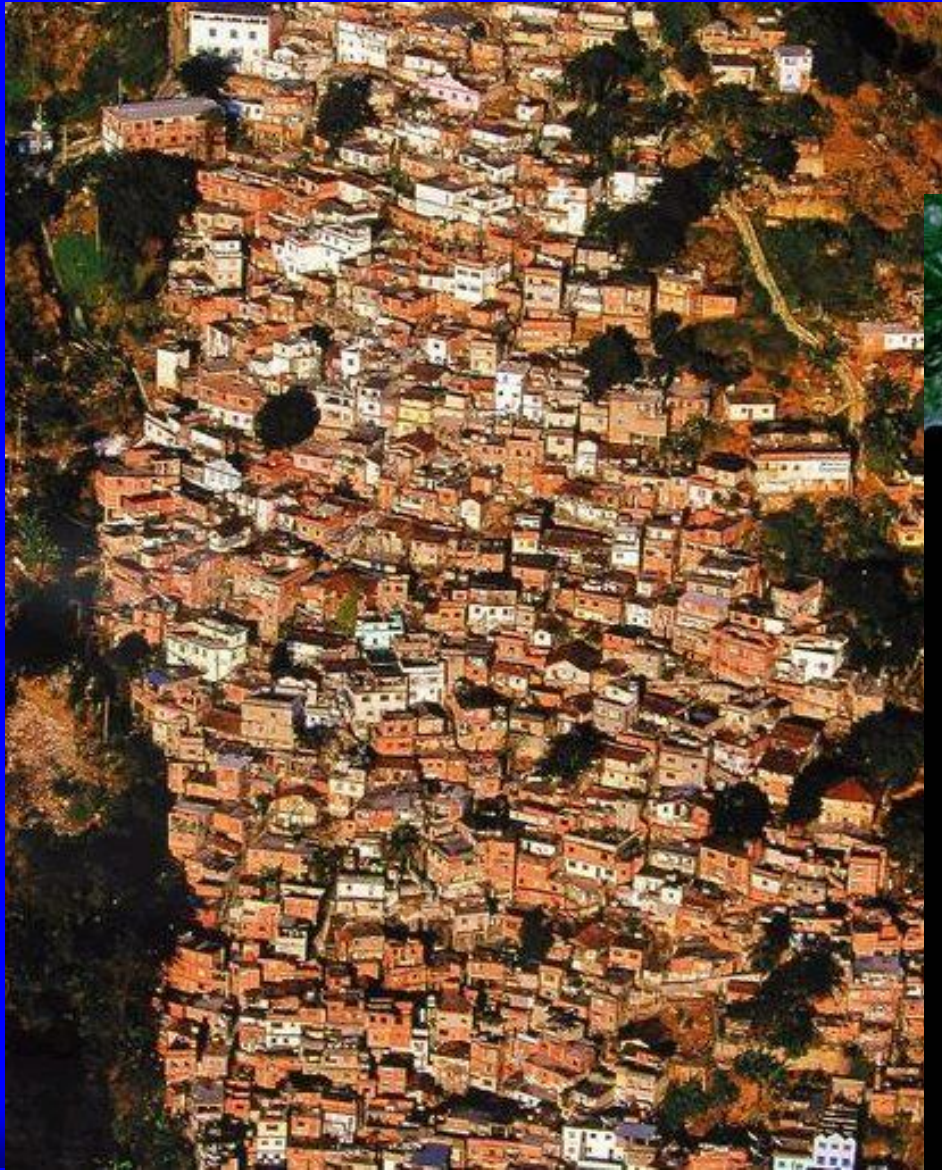
Female



Population (in millions)

# Overpopulation

☞ When consumption of natural resources by people outstrip the ability of a natural region to replace those natural resources.



# Thomas Malthus on Population

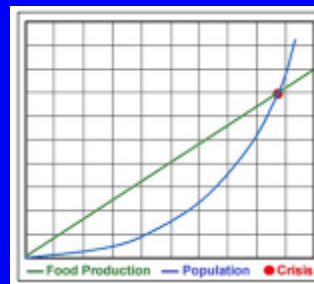
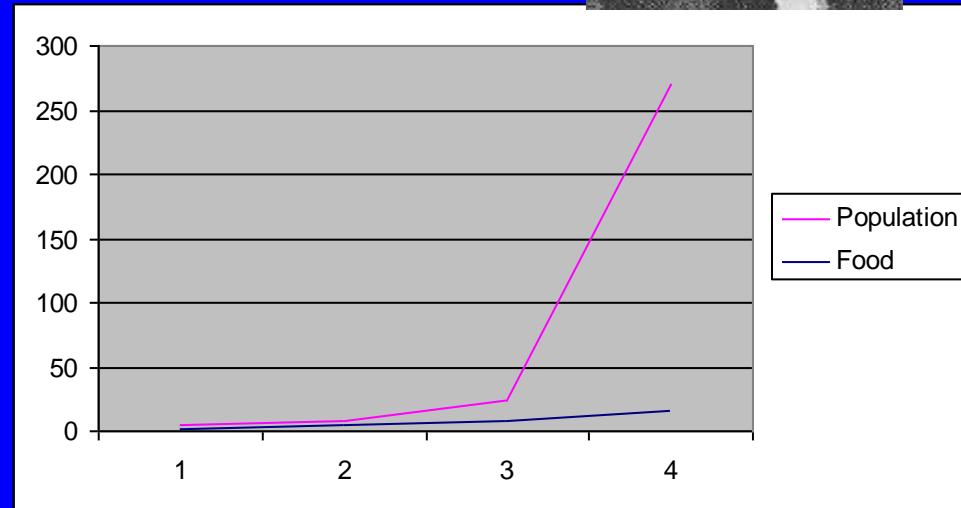
An Essay on the Principle of Population, 1798



**Malthus, responding to Condorcet, predicted population would outrun food supply, leading to a decrease in food per person.**

## Assumptions

- ☞ Populations grow exponentially.
- ☞ Food supply grows arithmetically.
- ☞ Food shortages and chaos inevitable.



Food	Population
2	2
4	4
8	16
16	256

# Population and the Environment

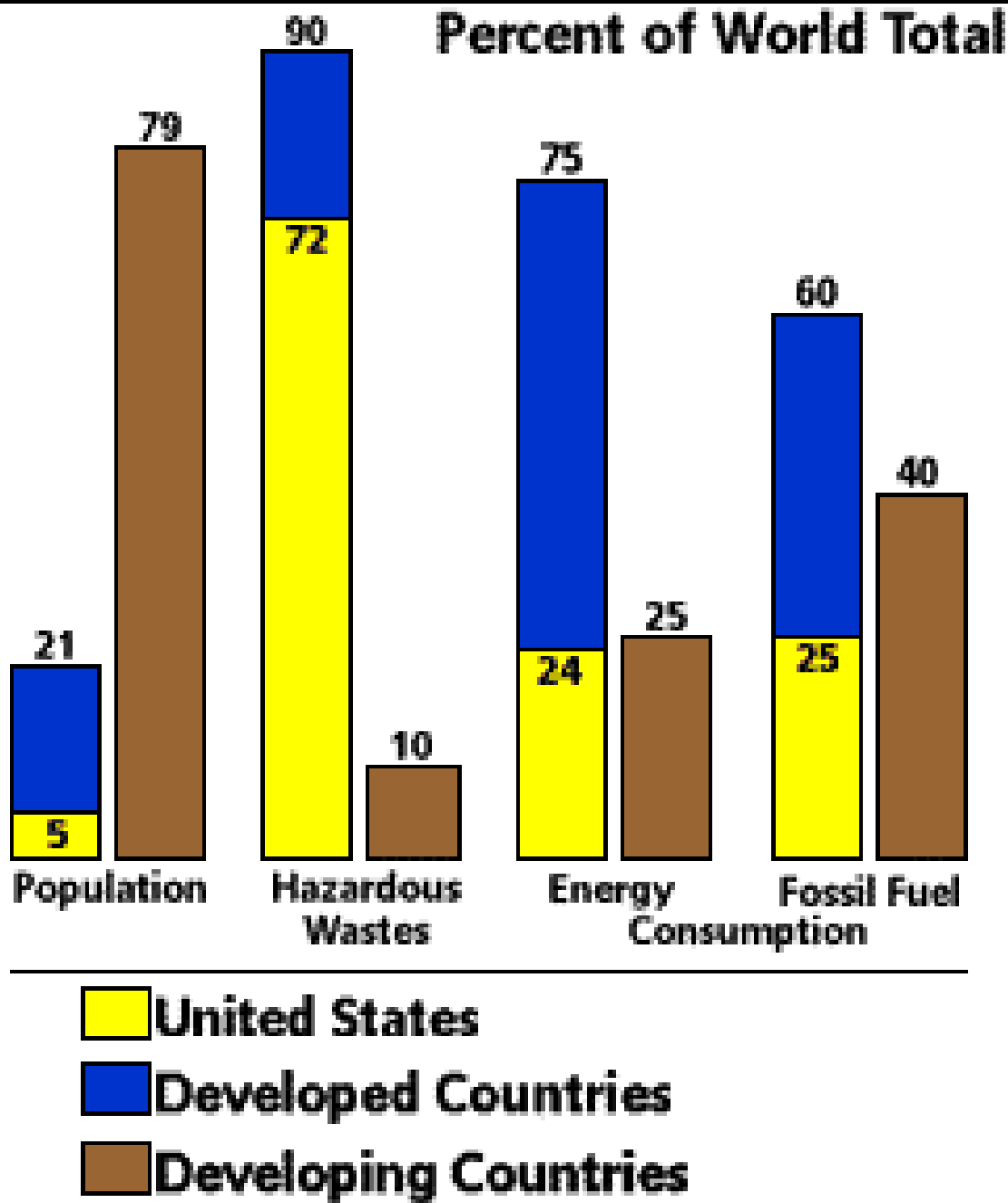
$$I = P \times A \times T$$

Impact = Population x Affluence x Technology

Population-influenced environmental problems:

- ***Global Warming***
- ***Habitat Loss / Endangered Species***
- ***Resource Depletion***
- ***Food Shortages? Not globally, but regionally.***

# Population and Resource Consumption



# Technology, Energy Consumption, and Environmental Impact

## There has been a dramatic increase in:

- individual energy use over time: 3,000 kcal/person - 300,000 kcal/person
- the power of technology to change the environment: think stone axe versus bulldozer versus atomic bomb.
- The scope and severity of environmental impacts.



# Tamat

