

WORLD POPULATION AND FOOD SUPPLY

Key Words and Concepts for Population section

Theories of population growth (and relationship to food supply):

Thomas Malthus – *Essay on Population*

types of population increase: geometric, arithmetic

checks on population: ultimate, preventative, positive

social and historical context of Malthus' writings

pronatalism

Neo-Malthusians

Criticisms of Malthus

Other views of population growth/food supply equation:

Technocrats (Cornucopians)

Classical Economists

Marxist Views

Neo-Marxists

Esther Boserup *The Conditions of Agricultural Growth*

extensive Agriculture

intensive Agriculture

History of population growth:

Overview of population increase over course of human history

Overview of changing distributions, migrations of peoples

Cultural revolution

Homo sapiens sapiens

Agricultural revolution - impact on population growth, settlement

cause of population growth

Depopulation Events – Bubonic plague, introduction of old world diseases in Americas

Population and economic changes leading up to Industrial revolution

Industrial/scientific revolution

impact on population growth

reasons for change in population

Dynamics of Population Growth

Birth Rate

Death Rate

Rate of Natural Increase

Total Fertility Rate

Demographic Transition Model

stages of demographic transition model

factors that affect changes in birth rates and death rates over time

What was Europe's experience with DTM? What has been the experience of the less developed countries?

Second demographic transition (or 5th stage)

Population pyramids

types, implications of shape of pyramids, population dynamics represented by shapes of pyramids

know meaning of column headings on data sheets and terms identified in your book

Population: Distribution and density

Primary clusters of world population

East Asia

South Asia

Europe

North America

Secondary clusters

Central Mexico

Southern Brazil

Nigeria

Nile Valley

East Africa

South East Asia

Empty areas

Countries with highest population – top ten

carrying capacity

sustainability

sustainable development

Population density

arithmetic density

physiological density

agricultural density

What affects population density and distribution?

Arable land, length of occupation by agricultural societies, urban-industrial history, national boundaries

Consequences of rapid population growth:

Environmental impacts

Marginal habitats

Deforestation

Soil erosion

Desertification

Industry

Fertilizer production

Contributions to global climate change

Water supply

Dams

Pumping ground water

Salinization

Migration

Refugees

Conflict

relationship between population growth and poverty

Population policies

Population conferences (Bucharest, Mexico City, Cairo)
impact of political agendas on global population policies

What contributed to success of Cairo conference?

Results of Cairo conference?

Population policies:

Increase: France, Germany, Singapore, others

Japanese example

Decrease: Indian example, Indonesian example

Middle East:

Increase: Kuwait, Israel, Iraq

Decrease: Iran, Turkey, Egypt

Impact of immigration

Future prospects for population growth

ZPG, zero population growth

potential for future population growth

- socio-economic variables
- age structure dynamics

carrying capacity

Factors affecting future population growth

Fertility (birth rate and total fertility rate)

- Developing regions
- Industrial regions

Factors affecting fertility: education, population policies

Mortality (death rate and life expectancy)

- Developing regions
- Industrial regions

International migration

Projections of future population growth: high, medium, low variants

Changing regional distribution of population