INVESTIGATION

21



Global Population Trends

Project

PURPOSE

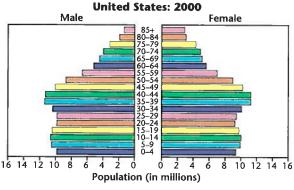
- Analyze and compare human population trends in nations of divergent economic development
- > Factor in the impacts of various historic events on populations to predict future growth and social conditions

INTRODUCTION

In Investigations 19 and 20 you developed mathematical and graphic models to represent and project human population growth. In this project you will analyze human populations by sex, age, and economic development to refine your predictions, based on a variety of possible historical events taking place.

Fig. 21-1

Population pyramids, such as this one for the United States in 2000, break down populations by gender (horizontal axes) and by age group (vertical axes).



Materials

- Internet access
- encyclopedias or other sources for global economic and political data

Procedure

Access the U.S. Census Bureau Web site at: www.census.gov/ipc/www/idbpyr.html At this site choose any three nations of the world so that you have one in each of these three categories: Developed, Developing, and Underdeveloped. Use the default settings for the three years 2000, 2025, and 2050, then print out your nine population pyramids.

| 2. | What patterns do you see in the differences and changes in the male/female ratios? |
|----|--|
| | |
| 3. | Compare the oldest age group in each of the categories for 2000. Do they change in the same ways for 2025 and 2050? What reasons would you give? |
| | |
| 1. | Consider how the overall population of each country will fare as time progresses. |
| | a. Will conditions for the people likely improve or degrade? Explain. |
| | b. What are the implications for immigration patterns over the 50-year period? |
| | |
| | |

left column. It would be helpful to research examples of such events in recent history.

Fig. 21-2: Comparison Table for Growth Under Varied Conditions

| Event | Developed Country | Developing Country | Underdeveloped Country |
|---|-------------------|--------------------|------------------------|
| Famine | | | |
| War | | | |
| Lowering of the marital age | | | |
| Development of effective birth control | | | |
| Outbreak of cholera epidemic | | | |
| Severe, chronic air pollution | | | |
| Lowering of infant mortality | | | |
| Start-up of a social security system | | | |
| Economic boom | | : | |
| Economic depression | | | |
| Legislation of child labor laws | | | |
| More employment opportunities for women | | - | |

Analysis

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