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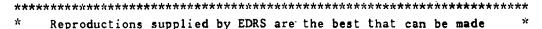
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ABSTRACT

Using text, graphics, satellite imagery, and data this publication with accompanying teacher's guide seeks to illustrate three main points concerning world population: (1) rapid world population growth is placing untenable immigration pressures on the United States; (2) immigration and U.S. population growth patterns generally are regionally concentrated, especially in coastal counties; and (3) given population and natural resource/environmental pressures, there are now profound and urgent reasons to address immigration within a broader national population policy framework. The text is suitable for use in high school, junior college, and college-level social science classes and applies and employs an interdisciplinary approach. The book is divided into three main sections. Part I contains eight complex graphs and map graphs displaying international data about world population growth. Part II contains six complex graphs and map graphs and six satellite photographs displaying the effects of population growth on the natural resources and environment of the United States. The third part, the Appendix, contains 18 statistical tables. Three short essays by Dan Stein, Garrett Hardin and Richard D. Lamm, present the ideological argument of the book. The teacher's guide contains five lesson plans and sample examination questions. (LZ)





Crowding out the Future

World Population Growth, U.S. Immigration, and Pressures on Natural Resources

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Crowding out the E

World Population Growth, U.S. Immigration, and Pressures on Natural Resources



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Foreword

through text, graphics, satellite imagery and data three main points. 1) Rapid world population growth is placing untenable immigration pressures on the United States. 2) Immigration and U.S. population growth patterns generally are regionally-concentrated, especially in coastal counties. This coastal county growth has far-reaching consequences that affect other parts of the nation and even the rest of the world. 3) Given population and natural resource/environmental pressures, there are now profound and urgent reasons to address immigration within a broader national population policy framework. Left unchecked, immigration will soon be America's most important population issue.

Rapid population growth in the world's less developed regions, combined with the development of modern communications and transportation technology, is creating and facilitating unprecedented international migration pressures.

The United Nations estimates that 90 million people are now added to the population of the planet each year. Within the next decade, more people will be added than there were in the entire world in 1800. Just two generations ago, global population was 2.5 billion. During 1992, we will reach the 5.5 billion mark, and the UN estimates that we will exceed 10 billion in the next century before population growth levels off.

This powerful demographic force will

explode in an unprecedented wave of human migration in the 21st century as tens of millions seek economic opportunity and escape from environmental disaster. The patterns have just begun to emerge and will grow with intensity in the decades to come.

In much of the less developed world we have witnessed the flight from rural to urban areas over the past two generations. Those in the countryside are moving—voting with their feet-in response to poor and declining living conditions. Pushed from the countryside and pulled by the city's bright lights and economic opportunity—real or imagined—tens of millions have elected to crowd into teeming metropolitan areas. Mexico City, for example, with 3.5 million people as recently as 1950, now holds around 18 million. And what we have witnessed to date is only the tip of the iceberg. The UN estimates that between 1987 and 2025, the urban population of the Third World will have grown by 2.75 billion people—twice the amount that were added during the period from 1950 to 1987.

Along with rapid urbanization, the population explosion in the less developed world has resulted in a vast labor force increase. The huge cohort born in the 1970s is only now entering the labor market, overwhelming the economies of many poorer nations. The Third World labor force has increased by more than 500 million since 1975. By 2025, another 1.4 billion people will be seeking employment, a number more



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than double the present total labor force of the more developed regions.

The great majority of these workers will be urban based or urban bound. In country after country, however, urban unemployment and underemployment already run high, affecting as much as half the labor force. Still, there are millions of new entrants each year, the products of rapid population growth from a generation earlier. Driven by rising expectations but facing plummeting prospects, great numbers have determined to take their chances and migrate, legally or illegally, to destinations in the more developed countries.

World population increase, urbanization and labor force growth are all topics covered in this publication. To grasp the dynamics that fuel the population explosion, a detailed look is taken at each of the key components in the demographic mix. They include the startling differences in age distribution patterns between the more and less developed regions of the world, the vast rise in the number of women of reproductive age and their fertility levels and, finally, the number of births by world region.

The second portion of the publication focuses on the United Stares, its population growth and linkages to select natural resources (including energy consumption) and environmental issues. The United States has the fastest growing population of any industrialized nation and that growth has a significant effect on the

global environment and the quality of file litting.

U.S. Today, more than half the United State
population growth is attributable to immige and their offspring. At a time of growing muttion pressures around the world, we must face the reality that resource consumption and environmental considerations limit the number of people the United States can absorb.

The United States cannot be a destination of large scale immigration forever. When the Statue of Liberty was erected in New York bor, this was a nation of 60 million period largely unsettled west and an economy en ing on the industrial revolution. Today nation of a quarter of a billion people problems of urban congestion, resou and a rapidly changing economy in highly specialized skills, not merely st Evidence suggests that we are already are... crowded nation. Nevertheless, the Unit continues to admit more immigrants other nations on earth combined, and at any time in our history. Population United States has grown to the point who now threatens to do irreparable harm environment.

We hope the materials in this report will demonstrate the national urgency of U.S. population growth through responsiits on immigration and immigration refer well as effective family planning program

Dan Stein, Executive Director

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World Regions (countries listed are those with more than 300,000 population in 1990)

Eastern Africa: Burundi, Comoros, Djibouti, Ethiopia, Kenya, Madagascar, Malawi, Mauritius,

Mozambique, Reunion, Rwanda, Somalia, Uganda, Tanzania, Zambia, Zimbabwe.

Middle Africa: Angola, Cameroon, Central African Republic, Chad, Congo, Equatorial Guinea,

Gabon, Zaire.

Northern Africa: Algeria, Egypt, Libya, Morocco, Sudan, Tunisia.

Southern Africa: Botswana, Lesotho, Namibia, South Africa, Swaziland.

Western Africa: Benin, Burkina Faso, Cape Verde, Cote d'Ivoire, Gambia, Ghana, Guinea, Guinea-

Bissau, Liberia, Mali, Mauritania, Niger, Nigeria, Senegal, Sierra Leone, Togo.

Caribbean: Cuba, Dominican Republic, Guadeloupe, Haiti, Jamaica, Martinique, Puerto Rico,

Trinidad and Tobago.

Central America: Costa Rica, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama.

Temperate South America: Argentina, Chile, Uruguay.

Tropical South America: Bolivia, Brazil, Colombia, Ecuador, Guyana, Paraguay, Peru, Suriname, Venezuela.

Northern America: Canada, United States.

China

Japan Other East Asia:

Hong Kong, People's Republic of Korea, Republic of Korea, Macau, Mongolia.

Southeastern Asia: Cambodia, East Timor, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore,

Thailand, Vietnam.

Southern Asia: Afghanistan, Bangladesh, Bhutan, Iran, Nepal, Pakistan, Sri Lanka.

India

Western Asia: Bahrain, Cyprus, Gaza Strip, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar,

Saudi Arabia, Syria, Turkey, United Arab Emirates, Yemen.

Eastern Europe: Bulgaria, Czechoslovakia, Hungary, Poland, Romania.

Northern Europe: Denmark, Finland, Ireland, Norway, Sweden, United Kingdom.

Southern Europe: Albania, Greece, Italy, Malta, Portugal, Spain, (former) Yugoslavia.

Western Europe: Austria, Belgium, France, Germany, Luxembourg, Netherlands, Switzerland.

Oceania:

Australia, Fiji, New Zealand, Papua New Guinea, Solomon Islands.

U.S.S.R.: All republics comprising the former U.S.S.R.

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The Ethics of Population Growth and Immigration Control by Garrett Hardin

o speak of a "world population problem" is to imply there is a worldwide solution. But how can there be? Nearly two hundred nations claim sovereignty, i.e., the right to solve their own problems. The 20th century began with idealistic dreams of "One World." The century is ending with a clear trend toward the fission of existing nations into more sovereign units. A realistic approach to population problems assumes a continuation of this trend.

Each sovereign nation must be held responsible for keeping its own population size under control. Outsiders can, however, influence a nation's population growth by sharing the technology of birth control. That is already being done. Unfortunately, experience has shown that mere knowledge of birth control is not enough to achieve a stable population. People must be convinced that the future will be better with population control than without it.

Under earlier, more primitive conditions no explicit policy was needed to control population. Nature took care of the matter. With variable food harvests and poor transportation, area-limited famines often reduced the population. Contagious diseases were capable of wiping out as much as 25 percent of a country's population in a single year.

Advances in agriculture, transportation, medicine and sanitation have changed all that. Populations are now growing at unprecedented rates. Human policy must take on a corrective

function once performed by Nature. In some countries, moral or religious directives interfere with the control of reproduction. In such cases, ancient ethical principles will have to be modified if ruinous overpopulation is to be forestalled.

What about the United States? By virtue of mutual assimilation of divergent religious beliefs in the past, remaining differences seem, at this moment, not to be a major cause of continued population growth. Accelerating immigration is the major cause of population growth. Powerful forces support the continuance of immigration.

Some businessmen see immigration as a way to keep labor costs down. Employers seldom inquire into the suffering of employees who are displaced by newcomers. (If business executives could be easily replaced by immigrant executives, would immigration be so enthusiastically encouraged?). Any short-term gains must be balanced against the long-term disadvantages of reducing the per capita share of national resources.

The other encouragement to immigration is found in the source-countries themselves. By encouraging dissatisfied citizens to leave, a ruler can strengthen his political position. Cuba's Fidel Castro took this option in 1980 when 130,000 men, women and children were shipped off to Florida. A full year's increase in the island's population was disposed of—at American expense.

Yet there are those among us who think that we are morally required to share our national wealth with all the world because we are "our



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brother's keeper." Even granting the validity of the imperative, is it likely that removing some of a poor nation's excess population will solve its own population problem? Will those who are left behind be more or less fertile after the pressure of overpopulation is reduced?

Careful scientific studies of other species of animals show that the lowering of population pressure produces an increase in fertility. Human beings cannot be made the subject of carefully controlled experiments, so knowledge is less certain. But the bulk of the evidence indicates that human beings, like other organisms, respond rationally to changes in population. When times get really tough, people have fewer children. When population pressures diminish, human fertility rises. These responses make sense. We can confidently predict that removing the excess fertility from a poor and overpopulated country will produce a rise in fertility. Accepting the "superfluous" emigrants is no way to help a poor country solve its population problem!

And what about us, the receiving nation? Will more millions of immigrants put an end to our traffic jams? Increase the speed and safety of commuting? Do away with the overcrowding of national parks and other recreation areas? Decrease the size of our ghettos? Decrease the crime that comes with crowding?

As immigration increases will divergent cultures assimilate more rapidly to American standards? Will demands for multiple official

languages cease? Will ever more dipolitical unity easier to achieve?

The answers are surely obvious some individuals (employers, for gain personally from immigration whole will lose. Our present popul quarter of a billion is more than exploit the resources with which blessed. Too much exploitation colook at the eastern shores of the More

A traditional moralist may.

"I am my brother's keeper." Wc.

"And what about your children?
dren's children? What about the neighbor next door? Must we tribute our patrimony among the world?" Americans are twenty-to-one by the rest of the grandchildren will be outnumber. Must we condemn them to the absolutely equal distribution? He benefit them or the descendants.

Total poverty can be avoided agree that the ancient admonition begins at home" is still the best of thropic action. The images that that population control must also home—at as many homes as the nations in the world. The brother all sovereign states must accept the of solving their population problems.

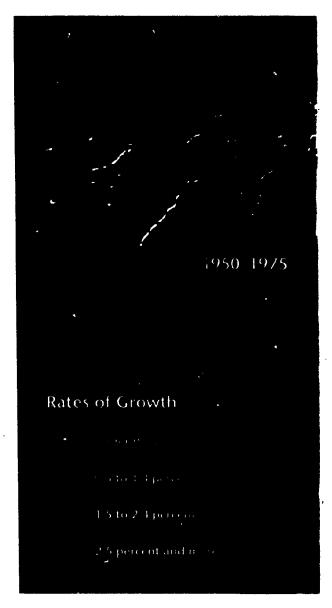
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The Population Explosion

he global population explosion began in earnest in the post-World War II era as significant gains were made in controlling diseases that had ravaged human populations throughout history. Advances in technology, nutrition, sanitation and health resulted in more people surviving childhood and living longer than ever before.

In the more developed world, these changes had occurred slowly, over a period of 150 years. In the less developed regions they occurred almost overnight. By 1970, the population growth rate in the developed countries had slowed to less than one percent annually and absolute increases would level off within a half century. In the less developed nations, populations continue to soar, in some cases doubling in the span of only 25 years.

The geometry of population growth means that even as the rate of population growth slows down, the actual number of people being added to the human population will remain high for decades to come—currently around 90 million a year. The doubling of our current population of 5.5 billion will be of far greater significance in terms of energy, resource consumption and stress on the environment than any previous doubling of worldwide population.



Africa, shown in bright pink for the 1975-2000 period, stands out due to its very high population growth rate. Rates below 0.5 percent (in blue) can be characterized as moderate to low, 0.5-1.4 percent rates (in green) as moderate to moderately high, and rates above 1.5 percent (in orange and bright pink) as high to extremely high.



The Size and Growth of the World's Population

Derteal or headacte,
populationsize The regions
line represents population size organis
the rate of population growth let the time period for each removed to the line represents organisms that 25 year period area or a size or a size of the direct form.

1975 2000

2000 2025

The population of Africa in 1950 was 224 million. By 1990, it increased to 640 million and is projected to be 1.6 billion by 2025.

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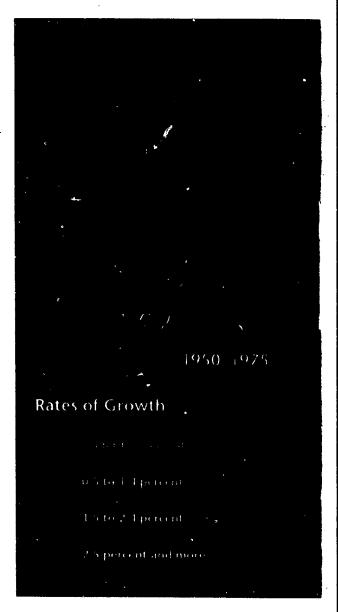


The Surging Population of the Underdeveloped World

he global population explosion that has occurred since 1950 has not been evenly distributed. While the developed nations approach population stability (as China is doing), explosive increases will continue in most of the less developed countries.

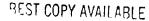
This uneven growth has resulted 13 unevenly distributed pressures on the economic and social systems and on the environment. These are stressful situations further exacerbated by the rush toward urbanization. Just the incremental 25-year increases in the underdeveloped world far exceed the total population of the developed countries.

Countries with economic and social structures least capable of coping with rapid population growth have seen a half-century of explosive increases. Moreover, the greatest period of population growth in these countries still lies ahead.



The population of the less developed regions is projected to increase by 5.5 billion inhabitants between 1950 and 2025. Approximately 20 percent of that increase occurred between 1950 and 1975. The remainder, in nearly equal 40 percent shares, is anticipated for the periods between 1975-2000, and 2000-2025.





Net Population Increases

Vertical represents only the population increase in each 25 year time period. Colors depict the rate of growth for the last five year period of each interval

1975 2000

-2000-2025

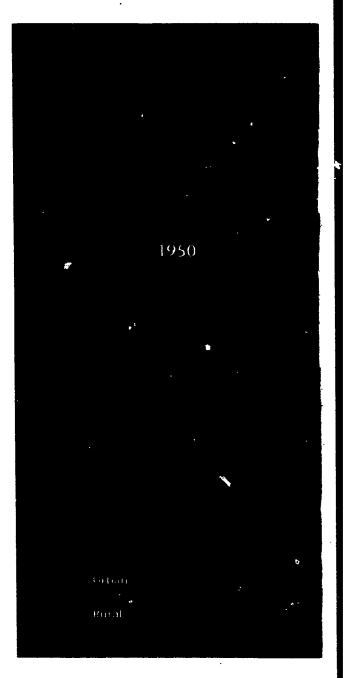
During 1950–1975, 83 percent of all population growth occurred in the less developed regions. During 2000–2025, 96 percent of world population growth is projected to occur in those areas.

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The Transformation to an Urban World

opulation growth and distribution trends in the less developed regions are increasingly characterized by urbanization. Societies that have been primarily agrarian throughout history have been transformed, in just a few years, into urban societies as a result. Most population increases in the less developed regions are now accruing to urban areas either through rural to urban migration or by natural increase (the excess of births over deaths) of the existing city population.

The movement of large numbers of people from rural to urban areas has created enormous pressures on the fledgling industrial economies in which many of these people seek economic opportunities. The rapid transformation of societies from rural to urban has also generated substantial social instability as people are displaced from their traditional cultures and support systems. Throughout the underdeveloped world, urban crowding and poverty are breeding grounds for civil unrest, violence and revolution. Much of the underdeveloped world's political instability is attributable to this phenomenon and, with the collapse of the Soviet empire, population growth and rapid urbanization are likely to be the greatest threats to world peace and a major source of migration pressure on wealthier and more stable nations like the United States.



In 1950, North America had an urban population of 108 million; Asia (excluding Japan) had an urban population of 175 million. In 1990, the figures were 207 million and 900 million, respectively. By 2025, North America is projected to have 280 million urban

Arban and Rural Population

Vertical represents total consistation of the population is shown in brown on dark process. White bands refresent income ments of 200 and man

1975

2000

2025

dwellers, while Asia will have an urban population of 2.5 billion—roughly the population of the entire world in 1950.

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Dividing Birth Shares Among World Regions

opulation growth occurs when the number of births exceeds the number of deaths (absent migration). Throughout most of history, high birth rates were offset by high death rates. Thus, until the mid-19th century, human population grew very slowly. Beginning a century-and-a-half ago, many of the diseases that had limited human life spans began to be conquered in the now developed world. In the mid-20th century, these medical advances were extended to the underdeveloped world as well.

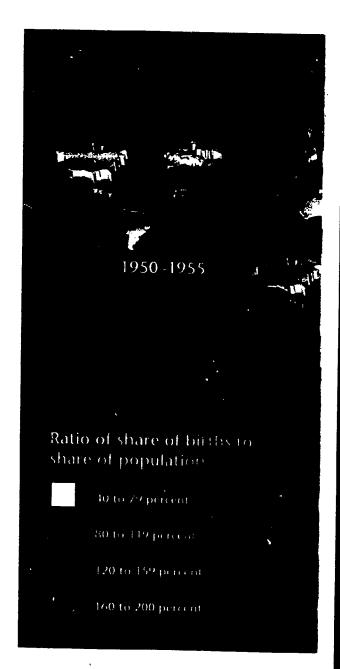
From about 1950 on, the age-old relationship between high birth and high death rates changed rapidly. Birth rates stayed high, while death rates dropped precipitously. The population explosion was underway as the gap between the two widened.

The birth rate began to decline moderately and then slightly faster in the 1970s and 1980s. Still, the actual number of births remained high as a result of "demographic momentum," ensuring that population will continue to increase even while birth rates fall.

Less developed regions continue to claim a high share of births worldwide. Eastern Africa stands as a perfect example. Its birth rate is falling, but given mone arm factors—particularly the exceptionally large increase in women of reproductive age—the actual annual number of births will rise fivefold.

By contrast, the developed countries, which are nearing population stabilization, do not have the same kind of demographic momentum.

Consequently, the developed world has both low birth rates and low numbers of births.



In 1950 there were 19 million births in the developed countries. By 1990, that figure had declined to 16 million annually, a level where it is projected to remain through 2025. In the less developed regions there were 79 million births in 1950 and 125 million



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Vertical represents the yearly means of logical during the five year intervals. Purple's pairs devicted increments of S million. Colors represent pro-ratal share of world births to total population. If the example, a region has 10 percent of the world births and 10 percent of the world's population. Its pro-rata share is 100 percent. Alternatively scall 5 percent of the world's births but 10 percent of the world's population, its pro-rata share is 30 percent.

1970 1975

2000-2005

2020-2025

in 1990. That figure should rise slightly to 130 million a year before the end of the century and remain at that level through 2025.

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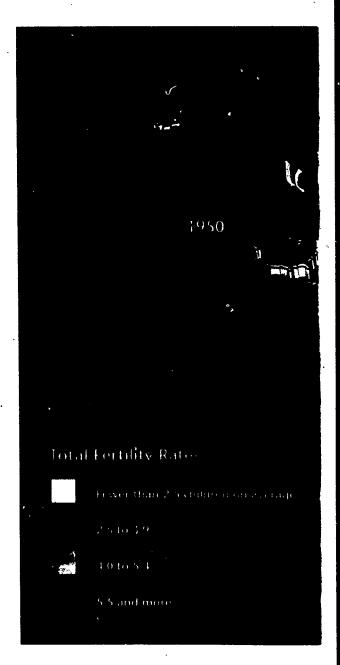


Growth Momentum: The Increase in Women Ages 15 to 49

n population growth terms, the critical group is the number of women of childbearing age. Women of reproductive age are increasing ten times faster in the less developed regions than in the more developed countries. This is the product of a cycle that emerged in the mid-20th century, combining high fertility with sharp increases in infant survival. The result is greater numbers of surviving children who themselves shortly become parents.

A paradox is presented of falling fertility alongside rising numbers of births and growing populations. Even though women in the less developed regions are now averaging fewer babies, there are now far more women. Thus, the number of total births continues to increase even with falling fertility.

Two of the factors necessary to approach population stabilization are that fertility continues to decline and the number of women having babies evolves to a peak and begins to diminish. The first condition is being met, as shown by the color shift in the graphics. However, the number of women 15–49 in the less developed regions is projected to continue to increase substantially.



In 1950, there were 52 million women between the ages of 15–49 in Africa. By 1990, that number had grown to 155 million. By 2025 it is projected that there will be 418 million women of reproductive age in Africa—an eight-fold increase over 1950.

Women Ages 15-49, By World Region

Vertical represents total number of the least of the Dark bands denote increment to the Colors correspond to total fertility cates for the number of children born, on account the Evolution during her reproductive counts.

1975

2000 -

2025

In contrast, women ages 15–49 in the more developed regions will increase by less than one-third during that 75-year interval. There were 224 million such women in 1950, and 290 million are projected for 2025.

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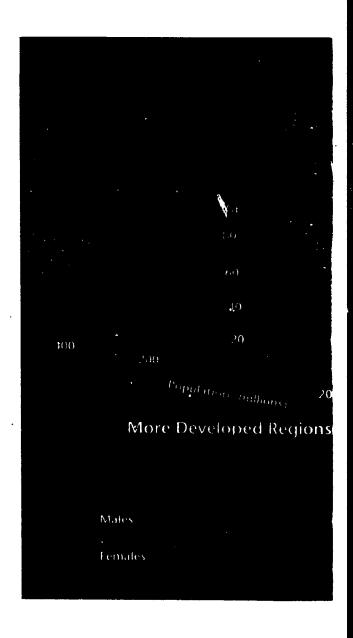


Two Distinct Age Distribution Patterns

he pyramid of the more developed regions reflects a relatively slow pace of population growth. As a region stabilizes its population, the traditional "population pyramid" is transformed, over time, into a more rectangular shape, as the size of all age groups within those societies becomes roughly equal. Despite frequently expressed concerns about an aging population in the more developed world, a degree of "aging" is an inevitable consequence when societies begin to stabilize population size.

Fast growth regions, on the other hand, continue to produce population pyramids with an ever-expanding base. A pause in the trend emerges in 1975–80 in the pyramid depicting the less developed regions, with a scallop effect spiraling upward in subsequent years that reflects the aging of this particular birth cohort. This is due largely to reduced births in China, which accounts for one-third of the less developed regions' population.

In much of the less developed world, half the population is under the age of 15. Even if the birth rates of these children are substantially lower than that of their parents, the sheer number of young people about to enter their reproductive years will continue to generate high numbers of births for many years to come.



In 1990, 47 percent of the population of Western Africa was under the age of 15. In Western Europe and Japan, only 18 percent of the population was below 15.

Population by Age for More and Less Developed Regions

of the population in five year increments. The horizontal axis represents the size of the population by sex. 'Depth represents change of the age structure over time.

> 2025 2000

1975

60 2000

Population ($million_N$)

Less Developed Regions











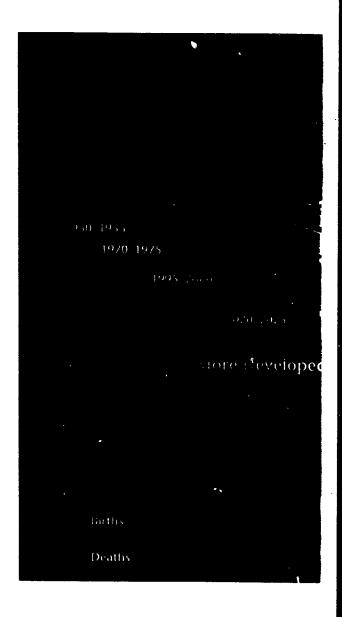
Births Minus Deaths: The Mathematics of Population Growth

ne of the great achievements of modern times is that more people are surviving early childhood and living longer lives than ever before. Though vast discrepancies still exist between the prosperous, developed countries and the impoverished underdeveloped countries, child mortality rates are falling and life expectancy is on the increase in all parts of the world.

In both the developed and underdeveloped areas the number of deaths is rising slowly. In the low population growth and more developed regions this is associated with the natural "aging" of the population. Here, 12 percent in 1990 were age 65 and older, compared to 4 percent in this age group in the less developed regions.

In the less developed countries, births have outpaced deaths about 2.5 to 1. Since 1950, there has been a sharp increase in the number of births in these countries. The absolute number of births is projected to level off at about 130 million annually by 1995.

The drop off in births between 1975 and 1980 (on the "less developed regions" graph) largely reflects China's efforts to reduce population growth and is an indication of the effect of vigorous family planning efforts.



Between 1950 and 1955, the annual number of births in the less developed regions exceeded deaths by 36 million. By 2020–2025, the gap is projected to widen to 80 million. In the more developed regions, there were 11 million more births than deaths in 1950-1955. By 2020–2025, the number of births in these regions is expected to exceed deaths by only 2 million a year.

Population Growth: The Excess of Births Over Deaths

Vertical depicts the number of the observed and only a constant of the excess of basis of the constant of the excess of basis of the constant of the constant

Regions

7950 1955

10 0 10

15/2/5000

2020-2025

Less Developed Regions

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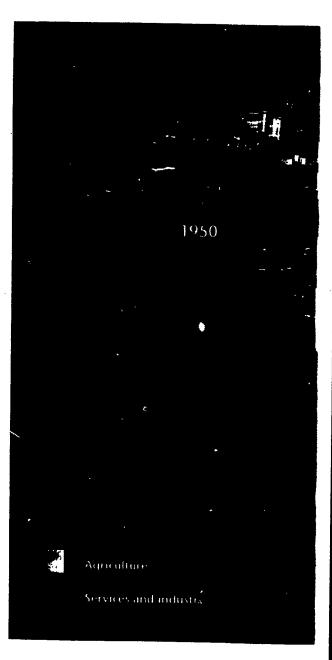
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Where Will the Jobs Come From?

ne consequence of the explosive population increase in the less developed world is the growth of the labor force. Given the 15 to 20 year time lag between birth and entry into the labor force, we are only now beginning to see the effects of the high birth rates of the 1970s.

Throughout history people have migrated in search of economic opportunity. As unprecedented numbers of first time entrants join the labor forces of countries whose economies cannot now adequately provide for existing workers, many will look to the developed world to find rewarding economic activity. The migration of even a small percentage of these workers to the developed countries places enormous economic and social pressures on the countries to which they migrate. As the less developed world becomes increasingly urbanized, migrating urban workers will compete directly with workers in the urban centers of the developed regions.



In 1990, the entire labor force of the more developed regions was 584 million people. In just the next 10 years, the less developed countries u'l have to produce 372 million jobs to accommodate all the new labor

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Urban and Rural Labor Force Growth by World Region

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1975

2000 ×

2025

force entrants. These are not projections. The workers of the early 21st century are already born.

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The Ethics of U.S. Immigration Policy in an Overpopulated World by Richard D. Lamm

unnar Myrdal, the noted Swedish sociologist, developed a concept he called the "braking distance" of population growth. He stated that stabilizing population is like stopping a car—one has to anticipate generations in advance. Even after a previously rapid-growth country reaches a replacement rate of 2.1 births per woman on average, the population will continue to grow for two or three generations. This concept shows the necessity to be far-sighted: Public policy must stop being reactionary and must begin to be anticipatory if we are to leave any kind of quality of life for our children.

Virtually everybody takes it as a given that at some point population growth must stop. No trees grow to the sky and a finite earth cannot absorb infinite people. If the United States should grow for the next 200 years at the same rate we grew during the last 200 years, there would be three times as many people in the United States than in the entire world today. Such a scenario is not only a nightmare, it is likely impossible. America, at some point, must stabilize its population. This demands that we realistically anticipate and ask ourselves how many people can live satisfying lives in the United States.

Without immigration, the United States would be on the road to population stabilization

by the middle of the next century. This has happened by the voluntary reproductive decisions of American women. When I graduated from college in 1957, the average woman had 3.7 births. Today, they have 2.0 births. Demography is a fickle science, and it is anybody's guess whether American women will continue to have such low fertility rates. There are strong arguments that women, now increasingly incorporated into the work force, are finding exciting lifestyle alternatives to childrearing. Unless there is a dramatic increase in U.S. fertility, we can look primarily to immigration as the factor standing between the U.S. and population stabilization.

The United States adds about 3 million people a year to our population of 250 million. Immigration, and the children of immigrants, account for more than half that growth. Under the new immigration law passed in 1990, we can anticipate that the immigrant population will grow substantially. Some experts expect that as many as 15 million people—the equivalent of two New York Cities—will settle in the United States during the 1990s.

In some areas of the country, like California, the impact of this influx will be acute. Demographer Leon Bouvier has projected that current immigration and natural increase patterns will result in California growing from 30



24

million in 1990 to 50 million residents by 2010. The state itself anticipates that it has to build the equivalent of a new school every single day to keep pace with the influx of children to California—clearly an impossible task. And this does not even begin to address the question of whether California, which already has severe pollution problems and suffers from a chronic shortage of water, could sustain a population of 50 million.

It is clear to me that it is in the best interest of our children and grandchildren to stabilize our own population and to assist other nations to do the same. We can do it ourselves, or nature will eventually do it for us—probably a lot less kindly. Public policy in the United States is struggling to resolve such problems as unemployment, crime, health care, education, poverty, pollution and national unity. All of these problems are aggravated by additional population growth.

It is axiomatic that developed nations like the United States create far more impact per capita on the environment and resources of the world than do people in the developing world. A person in the United States uses more than 30 times the energy resources as his counterpart in parts of Africa. Similarly, people in the developed regions have a greater impact on atmospheric carbon dioxide buildup, ozone depletion, soil

erosion and ground water connections are use greatly exceeds that citizens. We may feel a warm by allowing an immigrant to enthat immigrant will soon be condisproportionate share of world. In every way, we have set up un models of population growth a consumption.

I believe the best role for model—a sustainable society world to emulate. We must a population and reduce our distinguation and reduce our distingual form and reduce our realities and urged other us, rather than being a haven for abandoning their own countries.



Migration No Longer the Answer

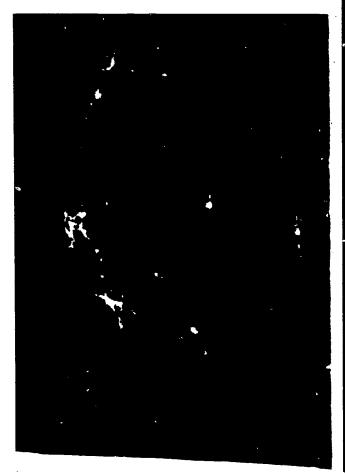
he conditions for unprecedented human migration from poorer to wealthier nations are unmistakably present.

Human population now stands at 5.5 billion and is increasing by a quarter of a million people daily. Traditional ways of life in the less developed countries are being irrevocably disrupted by rapid urbanization. Job creation in those urban areas cannot begin to keep pace with the number of new workers entering the labor force. Modern communications have made even those in the remotest villages aware of the promise of a better life in other countries. And, modern transportation has made access to the wealthy, developed countries relatively easy.

To be sure, the aspirations of today's migrants are no different from those which have motivated people to move since the dawn of mankind. However, what was possible in a world which until 1800 had fewer than one billion people is no longer possible in one which is adding a billion people every 10 years. Nevertheless, the human urge to migrate in search of a better life persists and poses serious dilemmas for the developed nations to which immigrants are flocking.

The destination of choice for those who are on the move, or contemplating migration, is the

United States. To millions around the world, the United States remains the land of opportunity, as it was for the millions of immigrants who preceded them to these shores. But unlike previous waves of immigrants who settled an open frontier and fueled an industrial revolution, today's immigrants arrive in a country that is already densely populated, with an elaborate social infrastructure, and which is struggling to keep its place in the post-industrial, sophisticated, and highly-com-





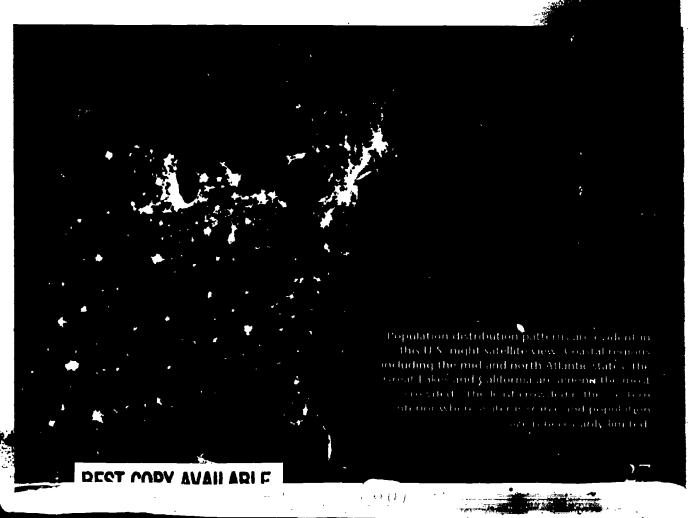
petitive global economy.

The United States, given its current population, population distribution and consumption of resources, is maintaining an existence that is unsustainable in the long term. In many areas of the country the United States is doing irreparable damage to its environment and robbing future generations of their resource base.

The following pages will demonstrate the patterns of population growth in the United

States and the effect this growth environment. As global population explode, the capacity of the United absorb immigrants will continue to

In the coming decades we with two irreconcilable phenomena impulse to migrate in search of be and the ecological limits to our abscapacity.

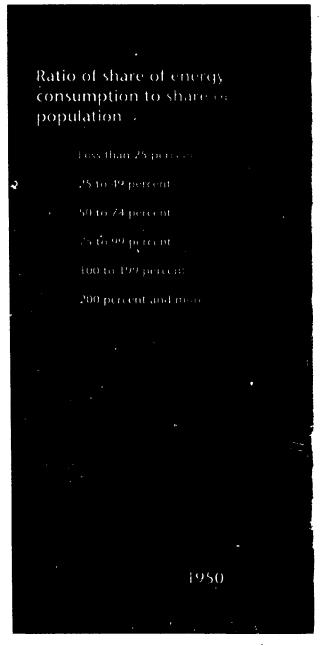


The Dominance of North America

he United States is the world's largest consumer of energy and its most wasteful. Even the very wealthy countries of Europe consume only 60 percent as much energy on a per capita basis and the Japanese a mere 40 percent. By using an inordinate share of the world's nonrenewable resources, the United States is also contributing disproportionately to environmental pollution and to the greenhouse effect.

While per capita energy consumption has remained constant in the United States over the past 20 years, overall consumption has continued to rise because our population is growing faster than any other developed nation. These sustained high levels of per capita consumption and relative wealth make it extremely difficult, perhaps impossible, for developing nations to compete in the global market for the resources they will need to achieve economic parity with the developed countries.

This situation has led to a global Catch-22. Because those countries cannot meet the economic expectations of their people, migration to developed regions continues. However, in some cases, the migration of a single individual to the United States can result in as much as a 30-fold increase in energy consumption by that same person. In the case of large-scale migration, this seriously retards the ability of developing nations to aquire the resources they need, while simultaneously creating pressures in the United States to meet the demands of a growing population.



During the 1980s, the U.S. population increased by approximately 22 million people. The additional energy consumption required to meet the demands of these new Americans would have served the energy



Energy Consumption by World Region, 1950-1986

1986

1970

Vertical represents per capita en (a), consumption exists. North American reported and advance regions are shown and advance regions are shown and representing the percent increment. Colors illustrate the relation—ship between population size and energy consumption levels. If, for example, a region has 10 percent of the world's energy, its provides have is exactly 100 percent. A region with 5 percent of the population using 15 percent of the colid's energy has a 300 percent provides shown as red).

needs of 55 million Japanese; 150 million Tropical South Americans; 530 million West Africans; or 660 million Southern Asians.

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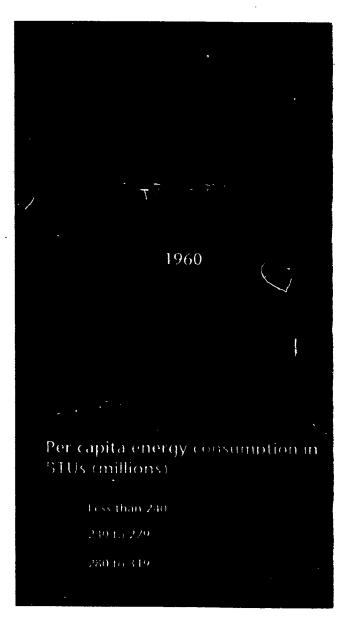


Growth in Energy Consumption Due to Growth in Population

ith the oil embargo of 1973, the U.S. public became painfully aware of its dependence on unreliable foreign energy sources. While the per capita consumption of energy in the U.S. grew precipitously during the 1950s and 1960s, the rate of per capita increase leveled off in the last 20 years. The aggregate consumption of energy, however, has continued to rise as population has grown by about 25 percent.

The United States has become much more efficient at using energy—although not nearly as efficient as the Europeans and Japanese. In 1987 it took 38 percent less energy to produce one dollar's worth of GNP than it did in 1973. Americans now consume 15 percent less gasoline to run automobiles despite the fact that the number of registered vehicles has grown by 20 percent.

In 1985, before the war in the Persian Gulf, the United States spent \$47 billion on military activities in that region, which supplies less than 10 percent of our energy needs. Factoring in the military costs, Americans paid \$468 per barrel of Persian Gulf oil. Had the U.S. simply stabilized its population. American reliance on energy from that part of the world could have been eliminated entirely.



The nine U.S. regions are: New England, Middle Atlantic, South Atlantic, East-North Central, West-North Central, East-South Central, West-South Central, Mountain and Pacific (including Alaska and Hawaii).



Energy Consumption by United States Region, 1960–1988

Vertical represents total energions pre programs to a new U.S. regions. Each white recommendation of the programs are represent persoapata calends.

1973

320 to 554

360 to 399

400 and more

1988

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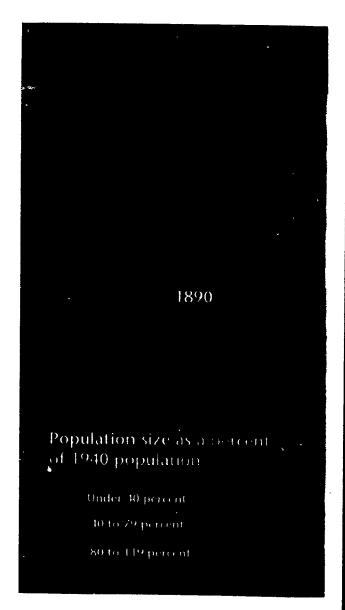
A Century of U.S. Population Growth

It should come as no surprise that the population of the United States has quadrupled in the last hundred years. U.S. population has grown at almost precisely the global rate over that period. By the standards of the developed world, our growth rate has been high, but by those of less developed countries it has been below the norm.

Two things distinguish U.S. population growth from that of most other countries, however. One is the high numbers of international immigrants it has absorbed and the other is the degree to which recent immigrants have affected regional shifts in population distribution.

During 1890 to 1930, U.S. population doubled from 63 million to 123 million people. Immigration was a primary factor in this growth as more than 20 million people entered the country during this period. Despite this enormous population growth, the distribution of the population changed very little. It continued to be concentrated in the northeast and around the Great Lakes. The immigrants settled primarily in the most densely populated regions, taking advantage of the existing economic and social infrastructure.

The years between 1930 and 1950 were a watershed period in U.S. history. Population, for a variety of reasons, grew only moderately for the only time this century. The virtual shut-off of immigration, the Great Depression, low birth rates and a world war all contributed to a hiatus in the otherwise steady and rapid pace of growth. During this period a new population distribution pattern began to emerge with marked growth in the southwestern and western part of the country.



California, Texas and Florida accounted for 6 percent of the total U.S. population in 1890. In 1940, those same three states accounted for 11.5 percent of the U.S. population. Sixteen percent of all U.S. population growth over this 50-year period, a total of 11.4 million people, occurred in those states.

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United States Population Size and Distribution, 1890–1930

Vertical represents percept to a composition by state. Each whater a countries equal to 2 percept of the total configuration. Colors confispend to population to be accepted 940, which is indexed at 100 percept to branch 5500 population, for example was to the quarter of this size in 1940 and is shown in a purpose of

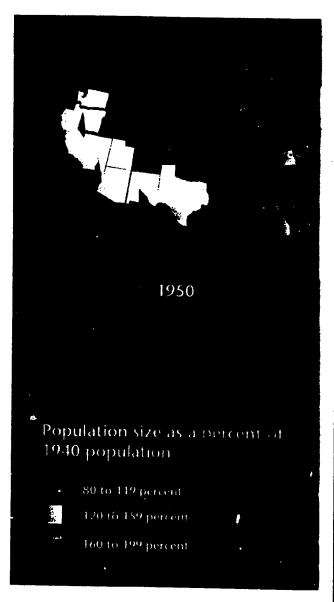
1910

The Shift South and West

merica's postwar era of unparalleled global dominance also saw a sharp upward surge in U.S. population after the slower growth of the previous two decades. U.S. population grew by more than 50 million people between 1950 and 1970, spurred by an unprecedented domestic baby boom. This 20-year span also saw the reemergence of immigration as a demographic force. It was also during these decades that the pattern of population shift to the south and west became clear. Largely through internal migration, new population centers, which relied on the automobile and the importation of water over great distances-such as Los Angeles—emerged as important metropolitan areas.

By 1970, the baby boom had ended and the nation was experiencing a protracted "baby bust." Nevertheless, over the next 20 years, the United States added another 50 million people to its population. This time the growth was in large measure the result of immigration which, by the end of the 1980s, had reached the highest levels in U.S. history.

The population redistribution shift that began in the aftermath of World War II was unmistakable. By 1990. California alone had as many people as there were in the entire United States at the time of the Civil War. The new population pattern was reinforced by continuing large scale immigration, as immigrants sought to take advantage of economic opportunities in these areas.



Culifornia, Texas and Florida, which accounted for 11.5 percent of the total U.S. population in 1940, accounted for 24 percent of the U.S. population in 1990. Thirty-eight percent of all U.S. population growth over this 50-year period, or 44.5 million people, occurred in those three states.





United States Population Size and Distribution, 1950-1990

Vertical represents percent or resolvers population by state. Each white horr, ontal found of equal to 2 percent of the total U.S. population. Colors correspond to population size relative to 1940, which is indexed at 100 percent. California's 1990 population, for example, is more than 500 percent its size in 1940 (and is snown in red).



1970

200 to 200 percent

300 percent and more

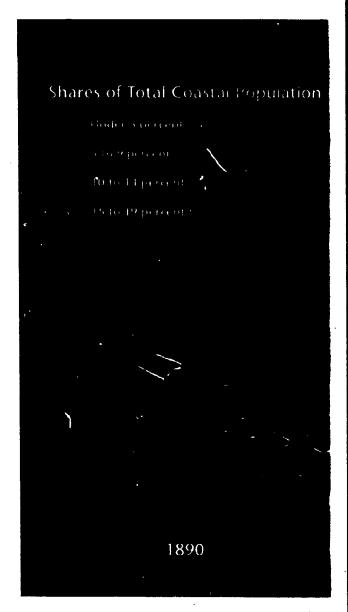




A Century of Coastal Population Trends

or the first 150 years of U.S. history, population was concentrated in the coastal regions of the northeast and along the Great Lakes. Since the end of World War II, settlement patterns have changed dramatically. While the populations of the northeast and Great Lakes have remained relatively unchanged since 1940, there has been very rapid growth in Florida and along the southern Pacific coast. Both regions are ecologically fragile and are proving ill-suited to the enormous population pressures being placed on them.

Florida, and particularly the coastal regions of California, are prime destinations for new immigrants arriving in the United States. California alone settles one in four legal immigrants to the United States and almost one in two illegal immigrants. At current legal and illegal immigration levels, that amounts to more than 300,000 people annually. Immigration consequently has a direct and tangible impact on the population growth of America's crowded coastal counties. Moreover, there is no end in sight to the high levels of immigration Florida and California are experiencing.



In California's coastal counties, where 80 percent of the state's population is concentrated, population density is currently just over 600 people per square mile. By 2010, when California's population is projected to reach 50 million, population density in the coastal areas would be 1.050 people per square mile.



United States Coastal County Population, 1890 1990

20 to 24 percent

25 percent or more

Non coastal portions of coastal states

1990

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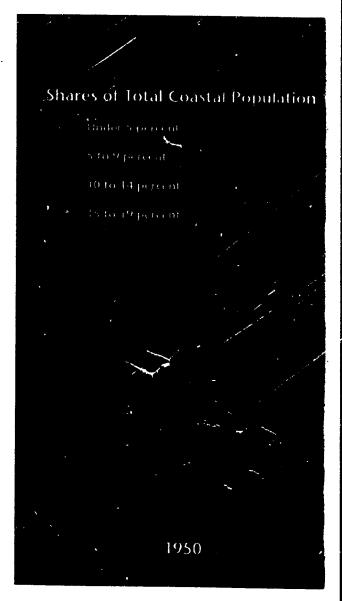
The United States Coastal Population

glance at a statistical table in an atlas would give the impression that the United States is a sparsely populated country, in comparison to most other nations. However, simple statistics are often misleading. Along the coasts, where nearly half the population lives, the U.S. is among the more densely populated countries in the world.

Forty-six percent of the U.S. population lives on just 10.5 percent of the continental land mass. These coastal regions also happen to be among the most ecologically sensitive areas in the country. With approximately 110 million people and much of our industry crammed on and around fragile wetlands and estuaries, the strain on the environment is intense.

Wetlands are an incubator for many species of plants and animals. They also are the ecosystem's natural filters, aiding in the breakdown of natural and man-made pollutants and contaminants. As population in these areas increases, many of these wetlands are irrevocably lost. Ironically, as population grows and encroaches on wetlands, it destroys the ecological basis that supports all population.

More than half the wetlands in the United States have already been lost. At the time of American independence there were more than 200 million acres of wetlands; today there are only 99 million acres left, and they are being debased or destroyed at a rate of 1,000 acres a day. Louisiana alone loses more than 25 square miles of coastal wetlands every year.



In 1990, the coastal region of the Northeast, including New England and New York, had a population density of 767 people per square mile. By comparison, El Salvador, the most densely populated

United States Coastal County Population, 1950-1990 25 pereent or more Mon coastal portions 1990 anited States agrouped into see represent percent shares of the total constal gounty population. The six co.es. New England (including New York 3) Southeast (Atlantic) 4) Gulf Coast (a Pacific 16)

nation overall in the Western Hemisphere had a density of 671. Haiti, the poorest country in the hemisphere, had a density of 580 people per square mile.

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Visible in this late winter satellite image are the heavily silted tributaries—the Potomac, Rappahannock and James Rivers—indicative of the natural and man-made flow that washes into the Chesapeake.

The Chesapeake Bay—Population Pressure on Delicate Wetlands

he Chesapeake is the largest bay in the United States and serves as the watershed catch basin for a 64,000-square mile area from upstate New York to Southern Virginia. It is the hub of an enormous natural filtration system which traps both natural and man-made pollutants that flow from its many tributaries.

The Bay itself—195 miles long and 30 miles across at its widest—is actually the nexus of a watershed system 20 times as large. Nearly 50 significant rivers and thousands of smaller streams penetrate deep into the surrounding areas. Every drop of rain, as well as every pollutant discharged into this tributary system, eventually finds its way into the Chesapeake.

The extremely shallow and ecologically fragile Bay is easily damaged by upstream pollutants including fertilizers, pesticides and soil run-off. The Chesapeake contains less than one-tenth the volume of water relative to most other major coastal bays. Because of the Bay's tidal action, pollutants washed downstream remain in the Chesapeake for long periods of time.

The Chesapeake is also the largest estuary in the United States. The brackish mixture of fresh and salt water is nature's incubator for countless species of plant and marine life. Already, about 40 percent of the Bay's surrounding forests, particularly those along the water's edge, and more than half of the wetlands have been lost.

The population growth both along the Bay itself and along its upstream tributaries has placed enormous ecological stress on the Chesapeake. Since 1950, population has grown by 50 percent while energy consumption has doubled and air pollution has increased by more than 250 percent. These are among the many ripple effects of increased population.

In this satellite view, the expanding sprawl of Washington, D.C., and Baltimore, Maryland, the two major urban areas abutting the Chesapeake, is plainly evident. Also visible in this late winter satellite image are the heavily silted tributaries—the Potomac, Rappahannock and James Rivers—indicative of the natural and mannade flow that washes into the Chesapeake.



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The urbanized area of Los Angeles (blue) occupies nearly the entire 1,500 square miles of the Los Angeles basin. Shown here with west at the top, it is bounded by the Santa Monica, San Gabriel, San Bernardino, and Santa Ana mountains and by the Pacific Ocean.

The Los Angeles Basin

he Los Angeles basin in southern
California at the turn of the century was among the most promising agricultural regions in the nation. From fewer than 100,000 in 1890, population increased to 3 million in 1940. By 1990, it had surged to 11 million, becoming the nation's second largest metropolitan area. Increasingly, it is the destination point for immigrants. More than one million foreign born came to Los Angeles during the 1980s.

Now, urban buildup covers nearly the entire basin, as seen in this satellite image. Traffic congestion, noise, pollution, a deteriorating standard of living, growing violence and generally crowded conditions have replaced the irrigated orange groves and spaciousness that prevailed just one lifetime ago. Natural features have been permanently altered. Dams arrest the rivers, the sporadically flowing Los Angeles river is sealed in cement and the alluvial soil of the valley's floodplain is covered in concrete and buildings. Now, it is a "heat island."

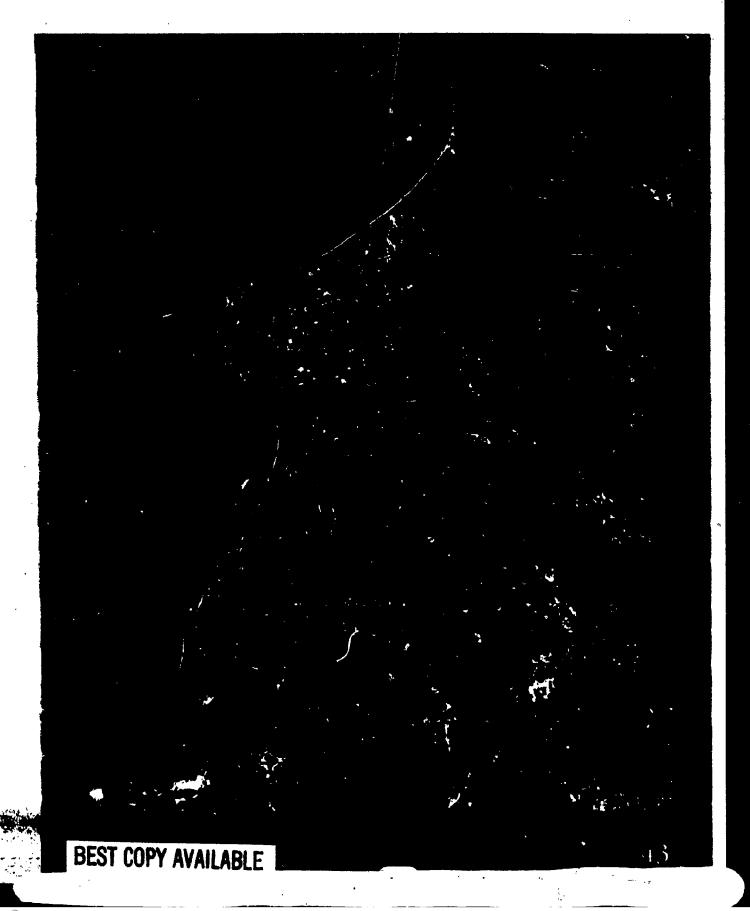
In order to grow, Los Angeles from the very outset had to reach out great distances to gain water rights and electricity supplies. Its grasp quickly extended north to the Owens Valley. Shortly after, the aqueduct was extended another

hundred miles to the Mono Basin. Both districts are on the eastern slopes of the High Sierras and have become the source of 80 percent of Los Angeles' water supply. Still another aqueduct extends due east to the Colorado River. Contentious and long standing legal battles rage among the southwestern states and between the United States and Mexico over water rights to the Colorado.

Water availability and distribution are the life blood of the outhwestern United States. The entire region is essentially a desert. Los Angeles sustains its massive population only through modern engineering. Expansionist planning continues even today, as Los Angeles attempts to tap into Northern California's still abundant water supplies. This is tempered, however, by public recognition of ecological and environmental issues and consequences to habitat and by the realization that population stabilization may offer the far better long-term solution.

Further growth in the Los Angeles basin is nonetheless expected, fed largely by immigration. For many destined to arrive, it is still the "City of Dreams," even though the reality is tarnished.







Florida and its Everglades, the "River of Grass"

lorida's population grew from 400,000 to 13 million during the last century. In 1940—the midpoint—it was still just 1.9 million. A full 90 percent of the increase has come since then.

During this brief interval, human economic activities have severely disrupted the peninsula as it once existed. In its natural state, South Florida is characterized by free flowing rainwater draining back to the sea via a broad and inches-deep "river of grass." Nature's subtle relationships, however, have been brutally altered in the 20th century. Water impoundments and drainage canals, urban sprawl, large-scale agriculture, and cattle and horse ranching continue to destroy the natural endowment.

In its earlier natural state, water spilled periodically over the Lake Okeechobee southern rim, and spread as a 50 mile sheet across the saw grass, moving at about a hundred feet a day. The natural drainage combined with rainfall replenishment along the way nurtured and sustained the only tropical region in the continental United States.

At the turn of the century, businessmen and politicians began the drive to construct levees around Lake Okeechobee's southern rim to hold the water in and dig canals to regulate the flow. This was done to control periodic floods, provide drainage, foster agriculture and irrigation and sell urban real estate. The lake is now completely

encircled by a dike, which constricts the heart of the free flowing system. By 1980, some 1,400 miles of canals and levees were carved out. A satellite image of the Loxahatchee Slough (inset), which is still preserved, shows one result—a vastly reduced water wilderness hard-pressed on the east by urban sprawl and on the west by agricultural fields.

Tampering with the system has produced enormous ecological and environmental problems that are nowhere near resolution. The portion of the Everglades drained for agriculture reveals a peaty muck that needs constant fertilization, pest and water level control. The drying muck itself shrinks a foot a year for a time. The result is compacted soil and fine blown dust that threatens to shrink back to bedrock level. North of the Lake, where cattle are raised, 1.5 tons of phosphorus waste flow into the lake daily and settle on its silty bottom. This speeds up the natural aging process of eutrophication and, eventually, to the biological death of the Lake itself.

Water use was once efficiently allocated by nature in the Everglades. It is the central resource in the entire system. It cannot be reconfigured over a long duration without carrying the seeds of its own destruction and it cannot be replaced. That simple fact is increasingly recognized. Yet, irreconcilable population pressures continue to be placed on it.





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Bisected by the Columbia River, the Portland, Oregon metro area(lower left) is shown in this 105 by 90 mile image along with Mt. St. Helens and the wide swath of destruction caused by its explosion in 1980 (upper center). Also visible are the snow covered volcanoes of Mt. Adams (right center) and Mt. Hood (lower right).

Forest Loss in the Pacific Northwest

hen European settlers first arrived on the North American continent, some 1.1 billion acres of land in what is now the United States were forested. Although today there are about 730 million acres of forested land, only about 10 percent of the original "old growth" stands still remain.

Nowhere is the battle to preserve what is left of the old growth forests more intense than in the Pacific Northwest. This satellite image shows the destruction of habitat as a result of forest clear cutting practices. Scores of clear cut tracts (in green) dot the forest floor amid the mountains and federally designated "wilderness" areas.

In recent years, the spotted owl has become a rallying point for those seeking to preserve old growth forests and a symbol of the destructive ripple effect caused by the loss of these ecosystems. Since 1930, the owl's old growth habitat has been reduced from 6 to 2 million acres. At stake is more than the fate of one particular species of owl. In its natural state, the forest supports an infinite variety of life forms ranging from fungus, beetles and insects found in fallen and rotting trees to the deer and other large animals that feed on new tree shoots. When it is destroyed, there is a chain reaction often felt

beyond the forest itself.

The greatest effect is on the hydrological cycle. There is more fresh water stored in the world's forests than in all the world's lakes. Moisture emitted during the transpiration process and the evaporation of surface moisture collected on leaves is essential to the cycle. The evaporation feeds the rain clouds. Maintenance of the northwest forests is basic to the rain supply of the great agricultural belt far to the east.

The rate of forest destruction in the Pacific Northwest is gaining in intensity. According to a 1992 congressional committee report, reforestation efforts are lagging severely behind the rate at which the forests are being cut down. For every 100 acres being harvested, only 64 are being successfully reforested.

As U.S. population, pushed in part by rising immigration, continues to grow, the encroachment on private tract forests in the Pacific Northwest will grow commensurately. Forested tracts are forced to make way for suburban and exurban sprawl as communities spread out. Much more than trees, however, is sacrificed as poor choices are made between economic short-term benefits and the proper stewardship over an intrinsically valuable natural resource.

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This satellite view shows hundreds of "center pivot" irrigation systems dotting the High Plains of western Kansas. The well-watered fields (in green) contrast sharply with the dry, brown surrounding soil.

Irrigation and Depletion of the Ogallala Aquifer

Beneath the High Plains of the central U.S. lies the Ogallala aquifer, a vast underground freshwater reservoir covering some 174,000 square miles, stretching from South Dakota to Texas (inset). The aquifer is the product of water deposited in gravel beds during the ice ages and stored there ever since. It is located beneath the American midwest, aptly named the "Great American Desert." Here, the rainfall is 20 inches a year, less as you move westward.

Circumstances changed in the 1920s with the invention of the centrifugal pump. It allows water to be brought to the surface at a rate of 800 gallons a minute or more, sufficient to irrigate over 100 acres, an area approximately the size of each of the hundreds of green circular fields irrigated by center-pivot systems. In 1980, some 170,000 irrigation wells were in operation on the High Plains.

The underground aquifer, however, is being depleted many times faster than it is replenished by precipitation and seepage from streams. It is estimated there were 3.25 billion acre feet of drainable water in 1980, down by 166 million acre feet since ground water development began. The U.S. Geological Survey notes the aquifer could be depleted by another five to six hundred million acre feet by 2020 based on current trends

and water management scenarios.

One set of constraints to the future of the system is the cost of energy needed to pump water from a steadily falling water table, balanced against prices received from the sale of agricultural goods. The falling water table also decreases the rate at which water can be pumped, and consequently the acreage that can be irrigated.

The entire economy of this vast area now depends in large part on irrigated agriculture. Much of what is produced as food winds up in foreign markets to supply a rapidly expanding world population. Yet, while beneficial in the short run to agricultural interests and to the U.S. balance of trade, a precious non-renewable resource meanwhile is being mined and is literally draining away.

The ramifications extend far beyond simple economic cost and benefit analysis and into questions of the costs to the environment and a return to "dust bowl" conditions. Millions of acres, for example, might suddenly go fallow were irrigated farmland to go out of production due to aquifer depletion, rising energy pumping costs, a fall in commodity prices, or because of large personal debts incurred by farmers side by side with rising interest rates. Yet, water and crops are all that now hold the soil in place.



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TABLE 1 Population by World Region, 1950–2025

World regions are listed according to population growth rates—lowest (Western Europe, row 1) to highest (Eastern Africa, row 23)—as projected by the United Nations for the 35-year interval, 1990-2025, Population is in thousands.

	Population is less than 2 times size in 1950
	2 to 3 times size in 1950
- 160 - 440	3 to 4 times
	4 to 5 times
	5 to 6 times
ERA!	6 times and more

TABLE 2 Population Growth Rates by World Region, 1950–2025

World regions are listed according to population growth rates—lowest (Western Europe, row 1) to highest (Eastern Africa, row 23)—as projected by the United Nations for the 35-year interval, 1990–2025.

	Growth rate is less than 25 percent of the world average for the period
	25 to 74 percent of world average
Č.	75 to 124 percent
	125 to 174 percent
	175 to 224 percent
3	225 percent and more

		1950	1955	1949	1265
W'orld		1.516,443	2.752,107	3,019,653	3,336.319
Moi	e Developed Regions	832,425	887.42 4	944,851	1.002.920
l.ess	Developed Regions	084.018	1,864,683	2,074,802	2,333,400
ī	Western Europe	140,919	145,641	151,753	1.50,047
2	Southern Europe	109.01 4	113,675	118,197	123,529
3	Japan	83,625	89,815	94,096	98,881
4	Northern Europe	⁷ 2,477	73,832	75.647	78,396
5	Eastern Europe	70.113	75,184	79,473	83.036
6	Northern America	166.075	181,742	198,663	214,076
-	Former U.S.S.R.	180.075	196,1 59	214,335	230.940
8	Other East Asia	33,006	34,011	39,995	45,946
9	China	554.760	609,005	657,492	729,191
10	Temperate South America	25,471	28,076	30,768	33 .555
11	Oceania	12.647	14,151	15,782	17,516
12	Caribbean	17.045	18,627	20,446	22,693
1.3	Southeastern Asia	182,033	200,415	224,605	252.829
1.4	India	357,561	395,096	442,344	495,156
15	Tropical South America	86,123	100,344	116,474	135,310
16	Central America	37,241	43.093	50,456	59.285
1-	Northern Africa	51,798	57,994	65,115	73,297
18	Southern Africa	15.736	17,639	19,892	22,623
19	Southern Asia (minus India)	23.842	136,713	153,956	174.744
20	Western Asia	+2,432	48,575	55,856	64,133
21	Western Africa	63,150	70,754	80,173	91,628
22	Middle Africa	26,316	28,792	31.811	35,343
23	Eastern Africa	64,984	72,774	82,326	94,165

Statistics: UN Population Division, 1990 estimates and projections, medium variant series,

		1950-55	1955–60	1960 -6 5	1965-70
Wo	rld	1.8	1.9	2.0	2.1
Mo	re Developed Regions	1,3	1.3	1.2	0.0
Less	Developed Regions	2.0	2.1	2.4	2.5
1	Western Europe	0.7	0.8	1.1	0.6
2	Southern Europe	0.8	0.8	0.9	0.8
3	Japan	1.4	0.9	1.0	1.1
4	Northern Europe	0.4	-1	0.7	34.45
5	Eastern Europe	1.4	1.1	0.9	0.7
6	Northern America	1,8	1.8	1.5	1.1
7	Former U.S.S.R.	1.7	1.8	1.5	1.0
8	Other East Asia	0.6	3.5	2.8	2.5
9	China	i.9	1.5	2,1	2.6
10	Temperate South America	1.9	1.8	1.7	1.6
11	Oceania	2.3	2.2	2.1	2,0
12	Caribbean .	1.8	1.9	2.1	1.9
13	Southeastern Asia	1.9	2.3	2.4	2.5
14	India	2.0	2.3	2.3	2.3
15	Tropical South America	3.1	3.0	3.0	2.7
16	Central America	2.9	3.2	3.2	3.2
17	Northern Africa	2.3	2.3	2.4	- 3.2 3 r
18	Southern Africa	2.3	2,4	2.6	5
19	Southern Asia (minus India)	2.0	2.4	2.5	2.7
20	Western Asia	2.7	2.8	2.8	2.8
21	Western Africa	2.3	2.5	2,7	2.8
22	Middle Africa	1.8	2.0	2.1	2.3
23	Eastern Africa	2.3	2.5	2.7	2.8
				,	A-()

Statistics: UN Population Division, 1990 estimates and protections, medium variant series,



3,697,849	4,079,023	4,448,037	4,851,433	5,292,195	5,770,286	6,260,800	6.739.230	7.204.343	7,659,858	8,091,636	4,504,723	
1,048,890 2,648,959 _	1,095,170 2,983,853 x			1,2 06,557 4.085.638	1,236,045 4,534,241	1,264,077 4,996,722	1,288,605 5,450,625	1,309,335 5,894,787	1, 327,398 6,332,461	6.749,581	150,287	
165,207 128,339	153,574	17.00	142,362	144,057				intercorpt a	<u>در در در د</u>	173,5 33 1 48,533	172,023 147,755	1 2
104,331 80,457	111,524		120,837	123,460 84,233	125,904 85,251	128,470	130,468			129,029 88,144	127,496 88,299	\$.4
85,940	89,323	92,660	95,037	96,925	98,601	100,494	102,269	103,799	105,092	106,191	107,136	5
226,480 242,766	238,867 £	265,546	264,777 277,537	275,865 288,595	285,843. 298,616	294,712 308,363	317,902	327,059	535,736	3 26,387 343,871	331,95 7 352,116	6
51,984	57,947	63,408	\$ 68,451	73.085	-7.802	82,359	86.388	89.676	92.468	94.860	96,798	8
830,675 36,274	927,269 s 39,231	996,134 42,296	1,059,522 45,461	48,589	1.222.562 51.687	1.299.180 54,784	1,354,235 57,846	1,395,328 60,828	1.435,683 03,698	1.476,852	1.512.585 68.970	9 10
19,329	21.10		24,587		28,338	30.144	31,891	33.582	35,226	36,781	38,207	11
24,890	27,25	29,179	31,247	33,685		38,546	40.923	43.291	45,701	48,130	50.476	12
286,709 554,911	323,532 620,7 01	11.360,063 12.688,856	401.498 769.183	444.767 853,094	490.104 946,716	535,057 1.041,543	577 . 156 1.1 34. 690	616,405 1,223,483	654.571 1,304.001	690, 831	726,017 ± 1.442,386	13 14
154,864		198,533	222,816	248.12	273,985	299,975	325,929	351.712	37.088	-101.579	+24.762	15
69,666	81,359	92.678	104,750	117,676	131,281	145,135	159,056	172,035	186,684	200,160	213.183	16
83,158 25,581	93,799 28,866	107.240 32,3 9	123,348 36,372	140,553 40,928	159,245 +5,972	178,949 51,416	199.330 57,168	219,580 63,108	238,925 69,074	256.728 7+.821	274,390 80,133	17 18
199,589	227,917	259.55	301,090	347,475	399,060	453,957	510,895	56° 050	621,066	672.141	719.451	19
73,670	85.267	98.610	114.584	131,754	151,196	171,975	193.812	216.546	240,376	264,347	287,751	20
105,202	121.71	141,258	165,141 60,209	1 93,702 70 ,0 54	227,426 81,933	266.645 95,981	311,360 112,344	360.430 130.958	410,942 151.395	440	100	21 22
108,228	123.5	144,172	167.815	196,873	232,243	273,594	321.148	374.399	431,034		*	23
												-
1970 -75	1975-80	1980-85	1985-90	199095	1995-00	2000-05	2005-10	2010-15	2015-20	2020–25		
1970 .75	1975-80 1.7	1980-85	1985-90 1.7	199095 1.7	1995-00 1.6	2000-05 1.5	2005–10	2010-15	2015-20	2020–25 1.0		
2.0	1.7	1.7	1.7 0.5	1.7 0.5	1.6 0.5	1.5 0.4	0.3	1.2 0.3	0.2	1.0		
2.0	1.7	1.7	1.7	1.7	1.6	1.5	1.3	1.2	1.1	1.0		
2.0	1.7	1.7	1.7 0.5	1.7 0.5	1.6 0.5	1.5 0.4	0.3	1.2 0.3	0.2	1.0	FR.	1
2.0 0. 2. † 0.5 0.8	1.7 0.5 2.1 0.2 **	1.7 0,7 2.1	1.7 0.5 2.1 0.2	0.5 2.1 0.2 0.3	1.6 0.5 1.9 6.1	1.5 0.4 1.7 0.0 0.2	0.3 1.6	0.3 1.4	0.2 1.3	1.0 1.2 1.2 -0.2 -0.1		1 2 2
2.0 2.4 0.5 0.8 1.3	1.7 0.7 2.1 0.2 ** 0.8 0.9	1.7 0.7 2.1 0.1 5.0 0.7	1.7 0.5 2.1 0.2 0.2	0.5 2.1 0.2 0.3	1.6 0.5 1.9 0.1 0.5	0.4 1.7 0.0 0.2	0.3 1.6	0.3 1.4 -0.1 -0.1	0.2 1.3 0.1 -0.1 -0.2	1.0 1.2 1.2 -0.2 -0.1 -0.2		1 2 3 4
2.0 0. 2. † 0.5 0.8	1.7 0.5 2.1 0.2 **	1.7 2.1 0.1 0.5 0.7	1.7 0.5 2.1 0.2	0.5 2.1 0.2 0.3 0.3 0.3 0.3	0.5 1.9 0.1 0.3 0.4 0.4	1.5 0.4 1.7 0.0 0.2 0.3	0.3 1.6	0.3 1.4 -0.1 0.0 -0.1 0.1 0.2	0.2 1.3	1.0 1.2 -0.2 -0.1 -0.2 0.0 0.2		.} 4 5
2.6 0.5 0.8 1.3 0.8 0.8 1.1	1.7 2.1 0.2 0.8 0.9 0.7 1.1	1.7 0.1 0.1 0.5 0.7 0.5 1.0	1.7 0.5 2.1 0.2 0.2 0.4 0.4 0.8	0.5 2.1 0.2 0.3 0.4 0.3 0.7	0.5 0.7 0.1 0.3 0.4 0.4 0.6	0.4 1.7 0.0 0.2 0.3 0.1 0.4	1.3 0.3 1.6	0.3 1.4 -0.1 0.0 -0.1 0.1 0.2 u.5	0.2 1.3 0.1 -0.1 -0.2 0.1 0.2	1.0 1.2 0.2 -0.1 -0.2 0.0 0.0 0.2 0.3	5	3
2.6 2.4 0.5 0.8 1.3 0.8 1.1	1.7 2.1 0.2 0.8 0.9 0.7 1.1	1.7 0.1 0.5 0.7 1.0 0.9	1.7 0.5 2.1 0.2 0.2 0.4 0.4 0.4 0.8 0.8	0.5 2.1 0.2 0.3 0.4 0.3 0.7 0.7	1.6 0.5 1.9 0.1 0.3 0.4 0.4 0.6 0.6	0.4 1.7 0.0 0.2 0.3 0.4 0.4	0.3 1.6	0.3 1.4 -0.1 0.0 -0.1 0.1 0.2 0.5	1.1 0.2 1.3 0.1 -0.1 -0.2 0.1 0.2	1.0 1.2 -0.2 -0.1 -0.2 0.0 0.2	5	.} 4 5
2.0 2.4 0.5 0.8 1.1 0.9 2.2 2.2	1.7 2.1 0.2 0.8 0.9 0.7 1.1 0.9 1.8 1.4	1.7 0.1 0.5 0.7 0.3 1.0 0.9 1.5 1.2	1.7 0.5 2.1 0.2 0.4 0.4 0.8 0.8 1.3 1.5	1.7 0.5 2.1 0.2 0.3 0.4 0.3 0.7 0.7 0.7 0.7 1.2 1.4	1.6 0.5 1.9 0.1 0.5 0.4 0.6 0.6 0.6 1.1	0.4 1.7 0.0 0.2 0.3 0.1 0.4 0.6 0.6 0.9 0.8	1.3 0.3 1.6 0.0	0.3 1.4 -0.1 0.0 -0.1 0.1 0.2 0.5 0.5	0.2 1.3 0.1 0.1 -0.2 0.1 0.2 0.4 0.5 0.5	1.0 1.2 .0.2 .0.1 .0.2 0.0 0.2 0.3 0.5 0.4 0.5		3 4 5 6 7 8
2.0 0.5 0.8 1.3 0.8 1.1 0.9 2.2 1.6	1.7 0.2 0.8 0.9 0.7 1.1 0.9 1.8 1.4 1.5	1.7 0.1 0.5 0.7 0.3 1.0 0.9 1.5 1.2	1.7 0.5 2.1 0.2 0.4 0.4 0.8 0.8 0.8 0.8 1.3 1.5 1.3	0.5 2.1 0.2 0.3 0.4 0.3 0.7 0.7 0.7 1.2 1.4 1.2	0.5 1.9 0.1 0.5 0.4 0.6 0.6 0.6 0.6 1.1 1.2	0.4 1.7 0.0 0.2 0.3 0.1 0.4 0.6 0.6 0.9 0.8	1.3 0.3 1.6 0.0 0.0 0.7 0.7 0.6 1.0	0.3 1.4 0.1 0.0 -0.1 0.2 0.5 0.5	0.2 1.3 0.1 -0.1 -0.2 0.1 0.2 0.4 0.5 0.6 0.8	1.0 1.2 0.2 -0.1 -0.2 -0.0 0.2 0.3 0.5 0.4 0.5 0.8		3 4 5 6 7 8 9
2.0 2.4 0.5 0.8 1.3 0.8 1.1 0.9 1.2 1.0 1.1	1.7 2.1 0.2 0.8 0.9 0.7 1.1 0.9 1.8 1.4 1.5 1.5	1.7 0.1 0.5 0.7 0.7 0.7 0.7 0.9 1.0 0.9 1.5 1.2 1.4 1.5	1.7 0.5 2.1 0.2 0.2 0.4 0.8 0.8 0.8 1.3 1.5 1.3	0.5 2.1 0.2 0.3 0.3 0.7 0.7 1.2 1.4	0.5 1.9 0.1 0.5 0.4 0.6 0.6 0.6 1.1 1.2 1.2	0.4 1.7 0.0 0.2 0.3 0.1 0.4 0.6 0.6 0.9 0.8 1.1	0.3 1.6 0.0 0.0 0.7 0.7 0.6 1.0	0.3 1.4 0.1 0.0 -0.1 0.1 0.2 0.5 0.5	0.2 1.3 0.1 -0.1 -0.2 0.4 0.5 0.6 0.8 0.9	1.0 1.2 -0.2 -0.1 -0.2 -0.3 0.5 0.4 0.5 0.8		3 4 5 6 7 8 9 10
2.0 0.5 0.8 1.3 0.8 1.1 0.9 2.2 1.6	1.7 0.2 0.8 0.9 0.7 1.1 0.9 1.8 1.4 1.5	1.7 0.1 0.5 0.7 0.3 1.0 0.9 1.5 1.2	1.7 0.5 2.1 0.2 0.4 0.4 0.8 0.8 0.8 0.8 1.3 1.5 1.3	0.5 2.1 0.2 0.3 0.4 0.3 0.7 0.7 0.7 1.2 1.4 1.2	0.5 1.9 0.1 0.5 0.4 0.6 0.6 0.6 0.6 1.1 1.2	0.4 1.7 0.0 0.2 0.3 0.1 0.4 0.6 0.6 0.9 0.8	1.3 0.3 1.6 0.0 0.0 0.7 0.7 0.6 1.0	0.3 1.4 0.1 0.0 -0.1 0.2 0.5 0.5	0.2 1.3 0.1 -0.1 -0.2 0.1 0.2 0.4 0.5 0.6 0.8	1.0 1.2 0.2 -0.1 -0.2 -0.0 0.2 0.3 0.5 0.4 0.5 0.8		3 4 5 6 7 8 9
2.0 0.5 0.8 1.3 0.8 1.1 0.9 2.2 1.6 	1.7 0.2 0.8 0.9 0.7 1.1 0.9 1.8 1.4 1.5 1.5 1.4 2.1 2.1	1.7 0.1 0.5 0.7 0.3 1.0 0.9 1.5 1.2 1.4 1.5 1.4	1.7 0.5 2.1 0.2 0.4 0.8 0.8 0.8 1.3 1.5 1.3 1.5 1.3 1.5	0.5 2.1 0.2 0.3 0.4 0.3 0.7 0.7 0.7 1.2 1.4 1.2 1.4	0.5 1.9 0.1 0.3 0.4 0.6 0.6 0.6 1.1 1.2 1.2 1.2 1.3 1.8	0.4 1.7 0.0 0.2 0.3 0.4 0.6 0.6 0.9 0.8 1.1 1.1 1.2 1.5 1.7	0.3 1.6 0.0 0.0 0.7 0.6 1.0 1.1 1.3 1.5	0.3 1.4 0.1 0.0 -0.1 0.1 0.2 0.5 0.5 0.6 0.9 1.0 1.1 1.2 1.3	0.2 1.3 0.1 -0.1 -0.2 0.1 0.2 0.4 0.5 0.5 0.6 0.8 0.9 1.0	1.0 1.2 -0.2 -0.1 -0.2 0.0 0.2 0.3 0.5 0.4 0.5 0.8 1.0 1.0		3 4 5 6 7 8 9 10 11 12 13 14
2.0 0.5 0.8 1.3 0.8 1.1 0.9 2.2 1.6 1.5 2.4 2.5	1.7 0.7 2.1 0.2 0.8 0.9 0.7 1.1 0.9 1.8 1.4 1.5 1.5 1.4 2.1 2.1 2.5	1.7 0.1 0.5 0.7 0.7 0.9 1.0 0.9 1.5 1.4 1.5 1.4 1.5 1.4 1.5 1.4	1.7 0.5 2.1 0.2 0.2 0.4 0.8 0.8 0.8 1.3 1.5 1.5 1.5 1.5 2.1	0.5 2.1 0.2 0.3 0.7 0.7 1.2 1.4 1.4 1.4	0.5 1.9 0.1 0.5 0.4 0.6 0.6 0.6 1.1 1.2 1.2 1.2 1.3 1.8 1.9	0.4 1.7 0.0 0.2 0.3 0.4 0.6 0.9 0.8 1.1 1.1 1.2 1.5 1.7	0.3 1.6 0.0 0.7 0.7 0.6 1.0 1.1 1.3 1.5 1.5	0.3 1.4 0.1 0.1 0.1 0.2 0.5 0.5 0.5 1.0 1.1 1.2 1.3	0.2 1.3 0.1 -0.1 -0.2 0.1 0.2 0.4 0.5 0.6 0.8 0.9 1.0 1.1	1.0 1.2 -0.2 -0.1 -0.2 -0.3 0.5 0.4 0.5 0.8 1.0 1.0 1.0		3 4 5 6 7 8 9 10 11 12 13 14 15
2.0 0.5 0.8 1.3 0.8 1.1 0.9 1.2 1.6 1.5 2.4 2.5 3.1 2.4	1.7 0.2 0.8 0.9 0.7 1.1 0.9 1.8 1.4 1.5 1.5 1.4 2.1 2.1 2.5 2.6 2.7	1.7 0.1 0.5 0.7 1.0 0.9 1.5 1.4 1.5 1.4 1.2 1.3 1.3 1.3 1.4 1.5 1.4 1.5 1.4	0.5 2.1 0.2 0.4 0.8 0.8 1.3 1.5 1.3 1.5 1.5 2.1 2.2 2.3 2.6	0.5 2.1 0.2 0.3 0.4 0.7 0.7 1.2 1.4 1.2 1.4 1.4 1.2 1.4 1.2 1.2 1.4	0.5 1.9 0.1 0.5 0.2 0.2 0.6 0.6 1.1 1.2 1.2 1.3 1.8 1.9 1.8 1.9	0.4 1.7 0.0 0.2 0.3 0.4 0.6 0.6 0.9 0.8 1.1 1.2 1.5 1.7 1.7	0.3 1.6 0.0 0.7 0.6 1.0 1.1 1.3 1.5 1.5 1.7 1.9	0.3 1.4 0.1 0.0 -0.1 0.1 0.2 0.5 0.5 0.6 0.9 1.0 1.1 1.2 1.3	0.2 1.3 0.1 -0.1 -0.2 0.1 0.2 0.4 0.5 0.5 0.6 0.8 0.9 1.0	1.0 1.2 1.2 0.2 -0.1 -0.2 0.0 0.2 0.3 0.5 0.4 0.5 0.8 1.0 1.0 1.0 1.1		3 4 5 6 7 8 9 10 11 12 13 14
2.0 0.5 0.8 1.3 0.8 1.1 0.9 1.2 1.6 1.5 2.4 2.2 2.5 3.1 2.4 2.4	1.7 0.2 0.8 0.9 0.7 1.1 0.9 1.8 1.4 1.5 1.5 1.4 2.1 2.1 2.1 2.5 2.6 2.7 2.3	1.7 0.1 0.5 0.7 1.0 0.9 1.5 1.4 1.5 1.4 1.2 1.3 2.3 2.3	0.5 2.1 0.2 0.4 0.4 0.8 0.8 1.3 1.5 1.3 1.5 1.3 2.1 2.1 2.2 2.3 2.6 2.4	0.5 2.1 0.2 0.3 0.7 0.7 1.2 1.4 1.2 1.4 1.4 1.2 2.1 2.1 2.2 2.5 2.3	0.5 1.9 0.1 0.3 0.2 0.6 0.6 1.1 1.2 1.2 1.3 1.8 1.9 1.8 2.3 2.3	0.4 1.7 0.0 0.2 0.3 0.4 0.6 0.6 0.9 0.8 1.1 1.1 1.2 1.5 1.7 1.7 1.7 1.8 2.2 2.1	0.3 1.6 0.0 0.7 0.7 0.6 1.0 1.1 1.3 1.5 1.5 1.7 1.9 2.0	0.3 1.4 -9.1 0.0 -0.1 0.1 0.2 0.5 0.5 0.6 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.7	0.2 1.3 0.1 -0.1 -0.2 0.1 0.2 0.4 0.5 0.5 0.6 0.8 0.9 1.0 1.1 1.0 1.3 1.4 1.4	1.0 1.2 -0.2 -0.1 -0.2 0.3 0.5 0.4 0.5 0.8 1.0 1.0 1.1	7.)	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
2.0 0.5 0.8 1.1 0.9 1.2 1.6 1.8 2.4 2.5 3.1	1.7 0.2 0.8 0.9 0.7 1.1 0.9 1.8 1.4 1.5 1.5 1.4 2.1 2.1 2.1 2.5 2.6 2.7 2.3 2.6	1.7 0.1 0.5 0.7 0.3 1.0 0.9 1.5 1.2 1.4 1.5 1.4 1.5 2.2 2.3 2.5 2.8 2.3 3.0	1.7 0.5 2.1 0.2 0.4 0.8 0.8 0.8 1.3 1.5 1.5 1.5 1.5 2.1 2.2 2.3 2.6 2.4 2.9	0.5 2.1 0.2 0.3 0.3 0.7 0.7 0.7 1.2 1.4 1.2 1.4 1.4 1.5 2.1 2.1 2.1 2.2 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3	0.5 1.9 0.1 0.3 0.4 0.6 0.6 0.6 1.1 1.2 1.2 1.2 1.3 1.8 1.9 1.8 1.9 2.3 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2	0.4 1.7 0.0 0.2 0.3 0.4 0.6 0.6 0.9 0.8 1.1 1.1 1.2 1.5 1.7 1.7 1.8 2.2 2.1 2.4	0.3 1.6 0.0 0.0 0.7 0.7 0.6 1.0 1.1 1.3 1.5 1.5 1.7 1.9 2.0 2.1	0.3 1.4 0.1 0.1 0.2 0.5 0.5 0.6 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.8 1.8	0.2 1.3 0.1 -0.2 0.1 0.2 0.4 0.5 0.6 0.8 0.9 1.0 1.1 1.0 1.3 1.4 1.6 1.6	1.0 1.2 -0.2 -0.1 -0.2 -0.3 0.5 0.4 0.5 0.8 1.0 1.0 1.1 1.3	7.)	3 4 5 6 7 10 11 12 13 14 15 16 17 18
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2.0 0.5 0.8 1.1 0.9 1.2 1.6 1.8 2.4 2.5 3.1	1.7 0.2 0.8 0.9 0.7 1.1 0.9 1.8 1.4 1.5 1.5 1.4 2.1 2.1 2.5 2.6 2.7 2.3 2.6 2.9	1.7 0.1 0.5 0.7 0.3 1.0 0.9 1.5 1.4 1.5 1.4 2.2 2.3 2.5 2.8 2.3 3.0 3.0	1.7 0.5 2.1 0.2 0.2 0.4 0.8 0.8 0.8 1.3 1.5 1.5 1.5 1.5 2.1 2.2 2.3 2.6 2.4 2.9 2.8	0.5 2.1 0.2 0.3 0.3 0.7 0.7 0.7 1.2 1.4 1.4 1.4 1.5 2.1 2.1 2.1 2.2 2.5 2.8 2.8	0.5 1.9 0.1 0.5 0.4 0.6 0.6 0.6 1.1 1.2 1.2 1.2 1.3 1.8 1.9 2.3 2.2 2.6 2.6 2.6	0.4 1.7 0.0 0.2 0.3 0.4 0.6 0.6 0.9 0.8 1.1 1.1 1.2 1.5 1.7 1.7 1.8 2.2 2.1	0.3 1.6 0.0 0.0 0.7 0.7 0.6 1.0 1.1 1.3 1.5 1.5 1.7 1.9 2.0 2.1	0.3 1.4 0.1 0.1 0.1 0.2 0.5 0.5 0.5 1.0 1.1 1.2 1.3 1.4 1.5 1.7 1.8 1.8	0.2 1.3 0.1 -0.1 -0.2 0.4 0.5 0.6 0.8 0.9 1.0 1.1 4.0 1.3 1.4 1.6 1.6	1.0 1.2 1.2 0.2 -0.1 -0.2 -0.3 0.5 0.4 0.5 0.8 1.0 1.0 1.1 1.3 1.4	7.)	3 4 5 6 7 10 11 12 13 14 15 16 17 18

1995

2000

MEST COPY AVAILABLE

TABLE 3 Urban Population by World Region, 1950-2025

World regions are listed according to population growth rates—lowest (Western Europe, row 1) to highest (Eastern Africa, row 23)—as projected by the United Nations for the 35-year interval, 1990-2025. Population is in thousands.

	Urban population is less than 2 times size in 1950
	2 to 3 times size in 1950
11	3 to 4 times
	4 to 5 times
A27.	5 to 6 times
	6 times and more

TABLE 4 Rural Population by World Region, 1950-2025

World regions are listed according to population growth rates—lowest (Western Europe, row 1) to highest (Eastern Africa, row 23)—as projected by the United Nations for the 35-year interval, 1990-2025. Population is in thousands.

	Rural population is less than 2 times size in 1950
	2 to 3 times size in 1950
,	3 to 4 times
	4 to 5 times
i a	5 to 6 times
	6 times and more

		1950	19	55 19	60 1965
Wor	rld	33,828	859,443	1,031,510	1,183,942
Mor	re Developed Regions	448,223	506,047	571,947	637,664
Less	Developed Regions	285,606	353,396	459,563	546,278
ı	Western Europe	94,595	101,031	108,541	118,414
2	Southern Europe	48,604	53,382	58,442	65,072
3	Jap a n	42,063	49.847	58,810	66,547
4	Northern Europe	54,454	56,293	58,670	62,743
5	Eastern Europe	24.064	28,856	33,891	38,260
6	Northern America	106,105	121.739	138,877	154,092
-	Former U.S.S.R.	70,772	86,117	104,598	121,016
8	Other East Asia	9,441	11,053	14,508	18,799
9	China	60,969	80,715	124.892	132,711
10	Temperate South America	16,505	19.342	22,375	25,296
11	Oceania	7,754	9.035	10,458	11,998
12	Caribbean	5,757	6,703	7,828	9,521
1.3	Southeastern Asia	26,937	32,437	39,487	47,674
14	India	61,695	69,540	79,413	93,084
15	Tropical South America	31,706	41,537	53,721	69,145
16	Central America	14,809	18,619	23,573	29.853
17	Northern Africa	12,667	15,693	19,507	24,585
18	Southern Africa	5,972	7,014	8,286	9,629
19	Southern Asia (minus India)	15,221	18,982	23,893	29,908
20	Western Asia	10,129	13,752	18,396	24.477
21	Western Africa	6,457	8,653	11,637	15,499
22	Middle Africa	3,747	4.597	5.688	7,430
23	Eastern Africa	3,405	130Z		8.188

1050

Statistics: UN Population Division, 1990 estimates and projections, medium variant series.

		1950	0 195	5 196	1965
Wor	ld	.,782,615	1,892,664	1,988,143	2,152,377
More Developed Regions		384,202	381,377	372,904	365,256
Less	Developed Regions	.,398,412	1,511,288	1,615,239	1,787,122
1	Western Europe	46.324	44,610	43.212	41,633
2	Southern Europe	60,410	60,293	59,755	58,457
3	Japan	41,562	39,968	3 5,286	32,334
4	Northern Europe	18,023	17,539	16,977	15,653
5	Eastern Europe	46,049	46,328	45,582	44,776
6	Northern America	59,970	60,003	59,786	59,984
7	Former U.S.S.R.	109,303	110,042	109.737	109,924
8	Other East Asia	23.565	22,958	25,487	27,147
9	China	493,791	528,290	532,600	596,480
10	Temperate South America	8,966	8,734	8,393	8,259
11	Oceania	i.893	5,116	5,324	5,518
12	Caribbean	11,288	11,924	12,618	13,172
13	Southeastern Asia	155,096	167,978	185,118	205,155
14	India	295,866	325,556	362,931	402,072
15	Tropical South America	54,417	58,807	62,753	66,165
16	Central America	22,432	24,474	26,883	29,432
17	Northern Africa	39,131	42,301	45,608	48,712
18	Southern Africa	9.764	10,625	11,606	12,994
19	Southern Asia (minus India)	108,621	117,731	130,063	144,836
20	Western Asia	32,303	34,823	37,460	39,6 56
21	Western Africa	56.693	62,101	68,536	76,129
22	Middle Africa	22,569	24,195	26,123	27,913
23	Eastern Africa	61,579	68,267	76,306	85,977

Statistics: UN Population Division, 1990 estimates and projections, medium variant series,

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1979	[9"5	1980	1985	. 1990	1995	2000	2005	2010	2015	2020	2025	
1,352,449	1.500 5	1,757,265	2.048.296	2,390,170	2,777,245	3.197.679	3 632,041	4.073.987	4,540,448	5,015,147	5,492,874	
698.643	753,998	798,743	840,713	875,469	909,865	946,227	983,164	1.020,063	1.055,990	1.088,643	1.117.099	
553.806	50 574	958,522	. 207.583	1.514, 701	1.867,379	2,251,452	2,648,877	3.053,925	3,484,458	3,926,504	4,375,775	
125,786	131,702	134,314	136,554	139,358	142,222	145,147	147,469	149,400	150,840	151230	152,124	1
71,964	78,314	84,743	90,182	94,674	99.368	104.070	108,218	111,644	114,430	116,760	118,672	2
74,294	34.473	88,995	92.658	95,040	97.424	99,782	102,000	103,229	103.262	103,146	102,111	3
66,315	68,270	69,133		71,130			75,116	76,4 01	77,691		79,729	4
42.508	47,991	52,981	\$7,008	60.704	64,314	68.112	71.855	75.403	78,708	81,736	84.505	5
167,147	176,348	186,217	197,396	207,401		227,715	238.261	249,559	261,304	272,057	281,283	6
137,651 25,121	152,730 31,245	167,162 37,850	180,817	189,895	198.201	208.138	219,756	232,831	247,073	260,651	274,030	7
Lue.5,3	160.525	195,370	273,385	50.941 380,803	56,958 499,077	62,536	67,483	71,667	75,275	78,518	81,355	8
28,240	31,492	34.89	38,394	11.845	45.248	614,514 48,616	710,192 51,915	782,538 55,099	854,731 58.187	927,185	995 ,4 77 63,926	9
13,673	15,148	16.226	17.382	18,700	20.060	21,480	22,992	24,612	26,268	61,143 27,909		10
11,351	15,110	15,479	17,610	20,043	22,516	24,993	27.459	29,941	32,508	35,132	29,498 37,729	11 12
57,894	7: 2,5	86,571	107,471	132.82+		197,214	234.532	273,771	315,482	358,376	402,418	13
109.616	132.272	158,851	192,064	230,269	275.674	336,542	404,079	480,806	564,681	648,265	737,155	14
86.411	106.279	129,229	154.472	180,974	208,054	235,160	262,001	288,323	314,601	340,390	365,247	15
37.626	46.65	56,014	.41, 325	77,631	89.793	102,513	115,632	129,222	143,031	156,904	170,638	16
29,926	\$5.655	42,816	\$1.+30	12.095	76,278	91,596	108,545	126,635	145,012	163,198	181,981	17
11,125	13.2 ±1	15,62	18,751	22,465	26,7+3	31,517	36,694	42,178	47,860	53,576	59,123	18
37,825	47.811	59,906	77,192	97,888	122,710	153,931	191,008	233,224	278,865	326,768	375,716	19
31,817	:	50,794	65,665	82,609	101,348	120,920	141,249	162,268	184,134	206,757	229,526	20
20,679	27 474	36.387	47,918	62,962	82,169	106,132	135,608	170,599	209,632	251,205	294,165	21
9,782	12.620	16,098	20,558	26,458	34,089	43,727	55,666	69,907	86,276	104,046	122,328	22
11,162		21,605	30,560	42,860	59,061	79,466	104,311	134.730	170,598	210,841	254,138	23
. 1970	,-5	1980	1985	[990	1995	2000	2005	2010	2015	2020	2025	
2,345,400			1985					2010			2025	
			2203.137	er i distri	A SERVIN	vá 8. F## 1 21	nt All V	2 N . 12 V. 1	3 119.410		. Σ. Μ. Σ. Μ N.	
2,345,400	2,538,146 311.172	337757	2201.137	~ 341 naa.	326 TRO		305.441				256.637	
2,345,400 350,2 (T 1,995,153	2,538,146 311.172 2,196,974	337 757 , 2353.015	2469.485	74T nax	376 180 2666 862	317.850 4.2-745-270	305.441 2,801,748	289.492° 2.840.862	271,408 2,848,003	255.404 2.823,077	256.837 2.774.512	
2,345,400 350,2 (T 1,995,153 39,421	2,538,146 311.172 2,196,974 37,455	337 757 , 2.353.015	2469.485 35,075	34î nax 2.570.937 33,769	276 180 2 666 862 32,217	317.850 2.745.270	303,441 2,801,748 28,321	289,492 2,840,862 26,007	271,408 2.848,003 23,839	255.0. 2.823,077	256.837 2-774.512	1
2,345,400 350,2 (7 1,995,153 39,421 56,375	2,538,146 311.172 2,196,974 37,455 55,044	337 757 , 2.353.015 36,730 54,069	2469.485 35,075 52,180	341 nss 2 570 937 33,769 49,413	376 180 2666 862 32,217 46,588	317.850 (2.745.270 30,431 43,741	305.441 2,801,748 28,321 40,745	289,492 2,840,862 26,007 37,665	271,408 2.848.003 23,839 34,643	255.404 2.823,077	236.837 2.774.512 29.083	2
2,345,400 350,2 (T 1,995,153 39,421	2,538,146 311.172 2,196,974 37,455	367.757 2.353.015 36,750 54,069 27,812	2303.137 2342.652 2469.485 35,075 52,180 2179	341 nss 2.570.937 33,769 49,413 28,420	32,217 46,588	317.850 2.745.270 30,451 43,741 28,688	305,441 2,801,748 28,321 40,745 22,468	289,492 2,840,862 26,007 37,665 27,806	271,408 2.848,003 23,839 34,643 27,086	255.0. 2.823,077	256.837 2.774.512 29,083	2 3
2,345,400 350,2 (7 1,995,153 39,421 56,375 30,037	2,538,146 311.172 2,196,974 37,455 55,044 27,111 13,552 41,332	337 757 2353 015 36,130 54,069 37,812 113,361 39,679	2303.137 2342.652 2469.485 35,075 52,180 2179	33,769 49,413 21,420	376 180 2666 862 32,217 46,588	317.850 2.745.270 30,431 43,741 28,688	303.441 2.801.748 28,321 40,745 28,468 11,608	289,492 2.840,862 26,007 37,665 27,806	271,408 2.848,003 23,839 34,643 27,086 10,033	255.0. 2.823,077	236.837 2.774.512 29.083	2 3 4
2,345,400 350,2 (7 1,995,153 39,421 56,375 30,037 14,142 43,432 59,333	2,538,146 311.172 2,196,974 37,455 55,044 27,111 13,552 41,332 62,459	2,550,772 337,757 2,353,015 36,130 54,069 37,812 33,679 65,693	2469.485 35,075 52,180 21,179 38,62 67,381	33,769 49,413 23,103 13,103 68,464	32,217 46,588 28,480	317,850 2,745,270 30,431 43,741 28,283 12,342 66,997	305,441 2,801,748 28,321 40,745 22,468	289,492 2,840,862 26,007 37,665 27,806	271,408 2.848,003 23,839 34,643 27,086 10,033 26,384	255.0. 2.823,077	256.837 2.774.512 29.083	2 3 4 5
2,345,400 350,217 1,995,153 39,421 56,375 30,037 14,142 43,432 59,333 105,115	2,538,146 311.172 2,196,974 37,455 55,044 27,111 13,552 41,332 62,459 101,769	2,550,272 337,757 2,353,015 36,130 54,069 37,812 13,361 39,679 65,693 78,384	2469.485 35,075 52,180 21,179 36,625 67,381	33,769 49,413 23,103 13,103 68,464	376 180 2 666 862 32,217 46,588 28,480 12,773	317,850 2,745,270 30,431 43,741 28,688 12,382 66,997 100,225	303,441 2,801,748 28,321 40,745 28,468 11,608	289,492 2.840,862 26,007 37,665 27,806 10,818 28,396	271,408 2.848,003 23,839 34,643 27,086 10,033	255.0. 2.823,077	256.837 2.774.512 29,083 29,083 50,674	2 3 4 5 6
2,345,400 1,995,153 39,421 56,375 30,037 14,142 43,432 59,333 105,115 26,863	2,538,146 311.172 2,196,974 37,455 55,044 27,111 13,552 41,332 62,459 101,769 26,702	2,650,772 337,757 2,353,015 36,130 54,069 37,812 13,361 39,679 65,693 38,384 25,558	33. 057 2.469.485 35.075 52.180 24.179 36.73 67.381 23.869	347 ngs 2570.937 33,769 49,413 22,420 13,103 65,221 68,464 91,700 22,144	32,217 46,588 28,480 12,775 68,323 100,415 20,844	317,850 2745,270 30,451 43,741 28,648 12,274 32,382 66,997 100,225 19,823	305,441 2,801,748 28,321 40,745 28,468 10,414 64,685	289,492 2,840,862 26,007 37,665 27,806 10,818 28,396 61,646	271,408 2.848,003 23,839 34,643 27,086 10,033 26,384 57,969	255.0. 2.823,077	256.837 2.774.512 29.083	2 3 4 5
2,345,400 250,217 1,995,153 39,421 56,375 30,037 14,142 43,432 59,333 105,115 26,863 686,138	2,538,146 311,172 2,196,974 37,455 55,044 27,111 13,552 41,392 62,459 101,769 26,702 766,844	2.590.772 337 757 2.353.015 36,150 54,069 37,812 13,361 39,679 65,693 98,384 25,558 800,764	2469.485 2.469.485 35.075 52.180 21.179 67.381 2.716 23.869 7.86,137	33,769 34,413 28,420 13,103 36,221 68,464 21,700 21,144 758,257	32,217 46,588 28,480 12,773 68,323 100,415 20,844 723,485	317,850 2745,270 30,431 43,741 28,648 12,274 32,367 66,997 100,225 19,825 684,666	28,321 40,745 28,321 40,745 28,468 11,608 50,414 64,685 98,14 18,905 644,043	289,492 2,840,862 26,007 37,665 27,806 10,818 28,396 61,646 94,228 18,009 612,790	271,408 2.848.003 23,839 34,643 27,086 10,033 26,384 57,969 88,663 17,193 580,952	255.0. 2.823,077	256.837 2.774.512 29,083 29,083 50,674	2 3 4 5 6 7
2,345,400 350,217 1,995,153 39,421 56,375 30,037 14,142 43,432 59,333 105,115 26,863 686,138 8,034	2,538,146 311,172 2,196,974 37,455 55,044 27,111 13,552 41,332 62,459 101,769 26,702 766,844 7,739	2.590.772 337 757 2.353.015 36,130 54,069 77,812 12,361 39,679 65,693 78,384 25,558 800,764 7,399	2469.485 35,075 52,180 13,025 67,381 23,625 67,381 23,869 786,137	33,769 49,413 28,420 21,103 22,144 758,257 6,744	2666.862 32,217 46,588 28,480 12,773 68,323 100,415 20,844 723,485 6,439	317,850 ,2745,270 30,431 43,741 28,688 12,274 52,382 66,997 100,225 19,823 684,666 6,168	28,321 40,745 21,668 21,668 50,414 64,685 96,14 18,905 644,043 5,931	289,492 2,840,862 27,806 27,806 10,818 28,396 61,646 94,228 18,009 612,790 5,729	271,408 2.848.003 23,839 34,643 27,086 10,033 26,384 57,969 88,663 17,193 580,952 5,511	253,404 2.823,077	236.837 2.774.512 29.083 29.083 50.674	2 3 4 5 6 7 8
2,345,400 350,217 1,995,153 39,421 56,375 30,037 14,142 43,432 59,333 105,115 26,863 86,138 8,034 5,656	2,538,146 311,172 2,196,974 37,455 55,044 27,111 13,552 41,332 62,459 101,769 26,702 766,844 7,739 6,012	2,550,272 337,757 2,353,015 36,130 54,069 27,812 33,679 65,693 38,384 25,558 800,764 7,399 6,573	2469.485 35,075 52,180, 21,79 23,862 67,381 23,869 7,86,137 7,067 7,205	33,769 49,413 22,420 68,464 9,700 22,144 758,257 7,781	32,217 46,588 28,480 34,287 68,323 100,415 20,844 723,485 6,439 8,278	317,850 2.745,270 30,431 43,741 28,688 212,274 32,382 66,997 100,225 19,823 684,666 6,168 8,664	305,441 2,801,748 28,321 40,745 28,468 30,414 64,685 98,14 18,905 644,043 5,931 8,899	289,492 2,840,862 26,007 37,665 27,806 10,818 28,396 61,646 94,228 18,009 612,790 5,729 8,970	271,408 2.848.003 23,839 34,643 27,086 10,033 26,384 57,969 88,663 17,193 580,952 5,511 8,958	255.404 2.823,077	236.837 2.774.512. 29,083 27,083 50,674 15,48 517.108 8,709	2 3 4 5 6 7 8 9 10
2,345,400 350,217 1,995,153 39,421 56,375 30,037 14,142 43,432 59,333 105,115 26,863 686,138 8,034 5,656 13,539	2,538,146 311.172 2,196,974 37,455 55,044 27,111 13,552 41,332 62,459 101,769 26,702 766,844 7,739 6,012 13,773	2,550,272, 337,757, 2,353,015, 36,130, 54,069, 27,812, 13,361, 39,079, 65,693, 384, 25,558, 800,764, 7,399, 6,573, 13,700	33.052 2.469.485 35.075 52.180 24.179 36.02 67.381 53.62 67.381 53.62 7.065 7.205	33,769 39,413 28,420 13,103 68,464 92,700 21,144 758,257 67,44 7,781 13,642	32,217 46,588 28,490 34,287 68,323 100,415 20,844 723,485 6,439 8,278 13,611	317,850 2.745,270 30,431 43,741 28,683 12,274 32,382 66,997 100,225 19,823 684,666 8,664 13,553	305,441 2,801,748 28,321 40,745 28,468 30,414 64,685 98,14 18,905 644,043 5,931 8,899 13,464	289,492 2,840,862 26,007 37,665 27,806 10,818 28,396 61,646 94,228 18,009 612,790 5,729 8,970 13,350	271,408 2.848.003 23,839 34,643 27,086 10,033 26,384 57,969 88,663 17,193 580,952 5,511 8,958 13,193	255.404 2.823,077 31,774 31,774 5,555 10,575 10,575 10,575 10,575 11,595	256.837 2.774.5.12 29.083 29.083 20.0574 20.05	2 3 4 5 6 7 8 9 10
2,345,400 250,217 1,995,153 39,421 56,375 30,037 14,142 43,432 59,333 105,115 26,863 686,138 8,034 5,656 13,539 228,815	2,538,146 311,172 2,196,974 37,455 55,044 27,111 13,552 41,332 62,459 101,769 26,702 766,844 7,739 6,012 13,773 252,287	2.550.772 337.757 2.353.015 36,150 54,069 37,812 13,361 39,679 65,693 38,384 25,558 800,764 7,399 6,573 13,700 273,492	33.052 2.469.485 35.075 52.180 24.179 13.26 67.381 27.06 7.205 7.205 13.637 294.027	33,769 49,413 28,420 13,103 68,464 92,700 22,144 758,257 67,44 7,781 13,642 311,943	32,217 46,588 28,480 12,773 34,287 68,323 100,415 20,444 723,485 6,439 8,278 13,611 327,162	317,850 2745,270 30,451 43,741 28,668 12,274 32,387 66,997 100,225 19,823 684,666 6,168 8,664 13,553 337,843	28,321 40,745 28,468 11,608 30,414 46,685 98,14 18,905 644,043 5,931 8,999 13,464 342,624	289.492 2.840.862 26,007 37,665 27,806 10,818 28,396 61,646 94,228 18,009 612,790 5,729 8,970 13,350 342,634	271,408 2.848,003 23,839 34,643 27,086 10,033 26,384 57,969 88,663 17,969 18,958 13,193 339,089	253.40 2.823,077 31.773 31.773 54.550 16.2549 48.872 12.991,332,455	29,083 29,083 29,083 50,674 15,15 517,108 1,745 1,747 1,747 3123,599	2 3 4 5 6 7 8 9 10 11 12
2,345,400 250,217 1,995,153 39,421 56,375 30,037 14,142 43,432 59,333 105,115 26,863 686,138 8,034 5,656 13,539 28,815 445,295	2,538,146 311,172 2,196,974 37,455 55,044 27,111 13,552 41,332 62,459 101,769 26,702 766,844 7,739 6,012 13,773 252,287 488,429	2.550.772 337 757 2.353.015 36,150 54,069 57,812 13,361 39,679 65,693 98,384 25,558 800,764 7,399 6,573 13,700 273,492 530,005	33, 652 2, 469, 485 35, 075 52, 180 13, 179 13, 126 67, 381 23, 869 786, 137 7, 067 7, 205 13, 637 294, 027 577, 118	33,769 49,413 28,420 21,103 36,221 68,464 9,700 22,144 758,257 6,744 7,781 13,642 311,943 622,825	2666.862 32,217 46,588 28,490 34,287 68,323 100,415 20,465 6,439 8,278 13611 327,162 668,042	317,850 2745,270 30,451 43,741 28,688 12,274 52,387 66,997 100,225 19,823 684,666 6,168 8,664 13,553 337,843 705,001	28,321 40,745 28,321 40,745 28,468 11,608 50,414 64,685 98,140 18,905 644,043 5,931 8,899 13,464 342,624 730,611	289,492 2.840,862 26,007 37,665 27,806 10,818 28,396 61,646 94,228 18,009 612,790 5,729 8,970 13,350 342,634 +2,677	271,408 2.848,003 23,839 34,643 27,086 10,033 26,384 57,969 88,663 17,193 580,952 5,511 8,958 8,958 339,089 39,320	253.404 2.823,077 31.773 31.773 54.50 168.22 549.45 8,872 12.998 332,455 723,502	236.837 2.774.512 29,083 25,0 30,674 31,108 8,709 12,747 323,599 705,231	2 3 4 5 6 7 8 9 10 11 12 13
2,345,400 350,217 1,995,153 39,421 56,375 30,037 14,142 43,432 59,333 105,115 26,863 686,138 8,034 5,656 13,539 22,815 445,295 68,453	2,538,146 311,172 2,196,974 37,455 55,044 27,111 13,552 41,332 62,459 101,769 26,702 766,844 7,739 6,012 13,773 252,287 488,429 69,338	2.550.772 337 757 2.353.015 36,130 54,069 77,812 13,361 39,679 65,693 98,384 25,558 800,764 7,399 6,573 13,700 273,492 550,005 69,304	33. 652 2.469.485 35.075 52.180 28.63 67.381 5.766 7.205 13.637 7.067 7.205 13.637 294.027 577.186 68.344	3.769 49,413 28,420 13,103 68,464 7,700 21,144 758,257 67,444 7,781 13,642 311,943 622,825 67,153	32,217 46,588 28,480 12,773 34,287 68,323 100,415 20,484 723,485 6,439 8,278 13,611 32,162 668,042 65,931	317,850 2745,270 30,431 43,741 28,688 12,274 52,387 66,997 100,225 19,823 684,666 6,168 8,664 13,553 337,843 705,001 64,815	28,321 40,745 21,668 21,668 30,414 64,685 99,14 18,905 644,043 5,931 8,899 13,464 342,624 730,611 63,928	289,492 2,840,862 27,665 27,806 10,818 28,396 61,646 94,228 18,009 612,790 5,729 8,970 13,350 342,634 +2,677 63,389	271,408 2.848,003 23,839 34,643 27,086 10,033 26,384 57,969 88,663 17,193 580,952 5,511 8,958 13,193 339,089 39,320 62,487	253.404 2.823,077 31.773 31.773 54.565 8.872 12.929 332.455 723,502	236.837 2.774.512 29.083 50.674 517.108 8.709 12.747 323.599 705.231	2 3 4 5 6 7 8 9 10 11 12 13 14 15
2,345,400 350,217 1,995,153 39,421 56,375 30,037 14,142 43,432 59,333 105,115 26,863 686,138 8,034 5,656 13,539 228,815 445,295 68,453 32,040	2,538,146 311,172 2,196,974 37,455 55,044 27,111 13,552 41,332 62,459 101,769 26,702 766,844 7,739 6,012 13,773 252,287 488,429 69,338 34,702	2,550,272 337,757 2,353,015 36,130 54,069 27,812 35,679 65,693 38,384 25,558 800,764 7,399 6,573 13,700 273,492 530,005 69,304 36,664	33. 652 2.469.485 35.075 52.180 28.63 67.381 5.766 7.205 13.637 7.067 7.205 13.637 294.027 577.186 68.344	3.769 49,413 28,420 13,103 68,464 7,700 21,144 758,257 67,444 7,781 13,642 311,943 622,825 67,153	32,217 46,588 28,480 12,773 34,287 68,323 100,415 20,484 723,485 6,439 8,278 13,611 32,162 668,042 65,931	30,431 43,741 22,45,270 30,431 43,741 28,688 12,274 66,997 100,225 19,823 684,666 6,168 8,664 13,553 337,843 705,001 64,815 42,622	305,441 2,801,748 28,321 40,745 28,468 11,608 00,414 64,685 98,14 18,905 644,043 5,931 8,899 13,464 342,624 730,611 63,928 43,424	289,492 2,840,862 27,806 10,818 28,396 61,646 94,228 18,009 612,790 5,729 8,970 13,350 342,634 +2,677 63,389 43,713	271,408 2.848.003 23,839 34,643 27,086 10,033 26,384 57,969 88,663 17,193 580,952 5,511 8,958 13,193 339,089 39,289 43,653	253.404 2.823,077 31.773 31.773 31.773 43.255 2.823,077 33.455 723,502 43,255	236.837 2.774.512 29,083 50,674 517,108 8,709 12,747 323.599 705.231 9,315 42,545	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
2,345,400 350,217 1,995,153 39,421 56,375 30,037 14,142 43,432 59,333 105,115 26,863 80,34 5,656 13,539 228,815 445,295 68,453 32,040 53,232	2,538,146 311.172 2,196,974 37,455 55,044 27,111 13,552 41,332 62,459 101,769 26,702 766,844 7,739 6,012 13,773 252,287 488,429 69,338 34,702 58,144	2,550,772 337,757 2,353,015 36,130 54,069 37,812 13,361 39,679 65,693 38,384 25,558 800,764 7,399 6,573 13,700 273,492 550,005 69,304 36,664 64,424	33. 652 2.469.485 35.075 52.180 28.63 67.381 5.766 7.205 13.637 7.067 7.205 13.637 294.027 577.186 68.344	3.769 49,413 28,420 13,103 68,464 7,700 21,144 758,257 67,444 7,781 13,642 311,943 622,825 67,153	32,217 46,588 28,480 12,773 34,287 68,323 100,415 20,484 723,485 6,439 8,278 13,611 32,162 668,042 65,931	317,850 2745,270 30,431 43,741 28,648 12,274 32,367 66,997 100,223 684,666 6,168 8,664 13,553 337,843 705,001 64,815 42,622 87,353	305.441 2.801.748 28,321 40,745 28,468 116,08 00,414 64,685 98,14 18,905 644,043 5,931 8,899 13,464 342,624 730,611 63,928 43,424 90,785	289,492 2,840,862 26,007 37,665 27,806 10,818 28,396 61,646 94,228 18,009 612,790 5,729 8,970 13,350 342,634 +2,677 63,389 43,713 92,945	271,408 2.848,003 23,839 34,643 27,086 10,033 26,384 57,969 88,663 17,193 580,952 5,511 8,958 13,193 339,089 39,320 62,487 43,653 93,913	253.40 2.823,077 31,773 31,773 54,550 16,549 43,245 723,502 1,11 43,256 93,530	256.837 2.774.5.12 29,083 29,083 50,674 15,18 15,18 15,19 12,747 323.599 705.231 32,545 92,409	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
2,345,400 350,217 1,995,153 39,421 56,375 30,037 14,142 43,432 59,333 105,115 26,863 686,138 8,034 5,656 13,539 228,815 445,295 68,453 32,040	2,538,146 311,172 2,196,974 37,455 55,044 27,111 13,552 41,332 62,459 101,769 26,702 766,844 7,739 6,012 13,773 252,287 488,429 69,338 34,702 58,144 15,625	2,550,772 337,757 2,353,015 54,069 57,812 13,361 39,679 65,693 78,384 77,399 6,573 13,700 273,492 530,005 69,304 36,664 46,424 16,732	2469.485 35,075 52,180 21,179 23,162 67,381 23,869 7,067 7,205 13,637 294,027 67,314 38,425 7,312 17,314 38,425 7,312 17,314	33,769 49,413 28,420 13,103 22,144 758,257 6,744 7,781 13,642 311,943 622,825 67,153 40,045 77,858 11,463 249,587	32,217 46,588 28,480 12,773 34,287 68,323 100,415 64,338 8,278 13,611 327,162 668,042 65,937 14,488 82,967	317,850 2745,270 30,451 43,741 28,648 12,274 32,362 66,997 100,225 19,823 684,666 6,168 8,664 13,553 337,843 705,001 64,815 42,622 87,353 19,899	305,441 2,801,748 28,321 40,745 28,468 11,608 30,414 64,685 98,14 18,905 644,043 5,931 8,899 13,464 342,624 730,611 63,928 43,424 90,785 20,474	289, 492 2.840, 862 27,806 10,818 28,396 61,646 94,228 18,009 612,790 5,729 8,970 342,634 +2,677 63,389 43,713 92,945 20,930	271,408 2.848,003 23,839 34,643 27,086 10,033 26,384 57,969 88,663 17,193 580,952 5,511 8,958 13,193 330,089 39,320 62,487 43,653 93,913 21,214	253.40 2.823,077 31.773 31.773 54.550 16. 549 8,872 12.59 332,455 723,502 611 43,236 93,530 21,245	29,083 29,083 29,083 50,674 1,25 517,108 1,2747 1,23,599 705,231 1,25 1,24	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
2,345,400 260,217 1,995,153 39,421 56,375 30,037 14,142 43,432 59,333 105,115 26,863 686,138 8,034 5,656 13,539 228,815 445,295 68,453 32,040 53,232 14,456	2,538,146 311.172 2,196,974 37,455 55,044 27,111 13,552 41,332 62,459 101,769 26,702 766,844 7,739 6,012 13,773 252,287 488,429 69,338 34,702 58,144	2,550,772 337,757 2,353,015 36,130 54,069 37,812 13,361 39,679 65,693 38,384 25,558 800,764 7,399 6,573 13,700 273,492 550,005 69,304 36,664 64,424	2469.485 35,075 52,180 21,179 23,162 67,381 23,869 7,067 7,205 13,637 294,027 67,314 38,425 7,312 17,314 38,425 7,312 17,314	33,769 49,413 28,420 13,103 22,144 758,257 6,744 7,781 13,642 311,943 622,825 67,153 40,045 77,858 11,463 249,587	2666.862 32,217 46,588 28,480 28,480 34,277 68,323 100,413 20,485 6,439 8,278 1327,162 668,042 65,931 41,488 82,967 19,229 276,350	317,850 2745,270 30,451 43,741 22,688 12,274 52,387 66,997 100,225 19,823 684,666 6,168 8,664 13,553 337,843 705,001 64,815 42,622 87,353 19,899 300,026	305,441 2,801,748 28,321 40,745 21,608 30,414 64,685 99,41 18,905 644,043 5,931 8,899 13,464 342,624 730,611 63,928 43,424 90,785 20,474 319,887	289,492 2,840,862 27,806 10,818 28,396 61,646 94,228 18,009 612,790 5,729 8,970 13,350 342,634 +2,677 63,389 43,713 92,945 20,930 333,826	271,408 2.848,003 23,839 34,643 27,086 10,033 26,384 57,969 88,663 17,193 580,952 5,511 8,958 13,193 339,089 30,308 43,653 93,913 21,214 342,201	253,404 2.823,077 31,773 31,773 31,773 8,872 12,924 332,455 723,502 61,14 43,258 93,530 21,245 345,373	236.837 2.774.512 29,083 50,674 51,7108 8,709 12,747 323,599 705,231 52,349 21,010 343,735	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
2,345,400 260,217 1,995,153 39,421 56,375 30,037 14,142 43,432 59,333 105,115 26,863 686,138 8,034 5,656 13,539 228,815 445,295 68,453 32,040 53,232 14,456 161,764	2,538,146 311,172 2,196,974 37,455 55,044 27,111 13,552 41,332 62,459 101,769 26,702 766,844 7,739 6,012 13,732 522,287 488,429 69,338 34,702 58,144 15,625 180,106	2.590.772 337 757 2.353.015 36,130 54,069 57,812 39,679 65,693 98,384 25,558 800,764 7,399 6,573 13,700 273,492 530,005 69,304 36,664 64,424 16,732 199,651	2469.485 35.075 52,180 13,266 38,029 67,381 23,869 786,137 7,067 7,205 13,637 29,637 19,637 19,637 21,741 38,425 223,898	33,769 49,413 28,420 28,420 28,420 21,103 36,221 68,464 29,700 22,144 758,257 6,744 7,781 13,642 311,943 622,825 67,153 40,045 77,858 18,463 249,587 3,145	2666.862 32,217 46,588 28,490 24,267 68,323 100,415 20,455 6,439 8,278 1327-162 668.042 65,931 41,468 82,967 14,468 82,967 14,468 82,967 14,468 82,967 14,468 14,268 14,268 14,268 14,268 14,268 15,268 16	317,850 2745,270 30,451 43,741 22,688 12,274 52,387 66,997 100,225 19,823 684,666 6,168 8,664 13,553 337,843 705,001 64,815 42,622 87,353 19,899 300,026	305,441 2,801,748 28,321 40,745 21,608 30,414 64,685 99,41 18,905 644,043 5,931 8,899 13,464 342,624 730,611 63,928 43,424 90,785 20,474 319,887	289,492 2,840,862 27,806 10,818 28,396 61,646 94,228 18,009 612,790 5,729 8,970 13,350 342,634 +2,677 63,389 43,713 92,945 20,930 333,826	271,408 2.848,003 23,839 34,643 27,086 10,033 26,384 57,969 88,663 17,193 580,952 5,511 8,958 13,193 330,089 39,320 62,487 43,653 93,913 21,214	253.404 2.823,077 31.773 31.773 54.50 16. 8,872 12.99 332,455 723,502 11.245 345,373	256.837 2.774.512 29,083 27,0 30,674 3,709 12,767 323,599 705,231 342,545 92,409 21,010 343,735	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
2,345,400 260,217 1,995,153 39,421 56,375 30,037 14,142 43,432 59,333 105,115 26,863 686,138 8,034 5,656 13,539 228,815 445,295 68,453 32,040 53,232 14,456 161,764 41,853 84,523 29,817	2,538,146 311,172 2,196,974 37,455 55,044 27,111 13,552 41,332 62,459 101,769 26,702 766,844 7,739 6,012 13,773 252,287 488,429 69,338 34,702 58,144 15,625 180,106 44,506 94,136 32,623	2.550.772 337.757 2.353.015 36,130 34,069 37,812 13,361 39,679 65,693 38,384 7,399 6,573 13,700 273,492 530,005 69,304 36,664 47,816 104,871 36,085	33. 652 2.469.485. 35.075 52.180 28.635 67.381 5.766 7.205 13.637 294.027 577.146 68.344 38.425 17.416 17.416 223.898 48.919 117.223 39.651	33,769 49,413 28,420 28,420 28,420 21,103 36,221 68,464 29,700 22,144 758,257 6,744 7,781 13,642 311,943 622,825 67,153 40,045 77,858 18,463 249,587 3,145	2666.862 32,217 46,588 28,490 24,267 68,323 100,415 20,455 6,439 8,278 1327-162 668.042 65,931 41,468 82,967 14,468 82,967 14,468 82,967 14,468 82,967 14,468 14,268 14,268 14,268 14,268 14,268 15,268 16	317,850 2745,270 30,431 43,741 28,688 12,274 52,387 66,997 100,225 19,823 684,666 6,168 8,664 13,553 337,843 705,001 42,622 87,353 19,899 300,026 51,055	28,321 40,745 21,668 21,668 30,414 64,685 99,14 18,905 644,043 5,931 8,899 13,464 342,624 730,611 63,928 43,424 90,785 20,474 319,887 52,365	289,492 2,840,862 27,865 27,805 10,818 28,396 61,646 94,228 18,009 612,790 5,729 8,970 13,350 342,634 +2,677 63,389 43,713 92,945 20,930 333,826 54,278	271,408 2.848,003 23,839 34,643 27,086 10,033 26,384 57,969 88,663 17,193 380,952 5,511 8,958 13,193 339,089 30,089 30,08	253,404 2.823,077 31,773 31,773 31,773 33,455 723,502 93,530 21,245 345,373 345,373 209,178	236.837 2.774.512 29,083 50,674 517,108 8,709 12,747 323.599 705.231 52,409 21,010 343,735	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
2,345,400 350,217 1,995,153 39,421 56,375 30,037 14,142 43,432 59,333 105,115 26,863 86,138 8,034 5,656 13,539 228,815 445,295 645,295 65,232 14,456 161,764 41,853 84,523	2,538,146 311,172 2,196,974 37,455 55,044 27,111 13,552 41,332 62,459 101,769 26,702 766,844 7,739 6,012 13,773 252,287 488,429 6,938 34,702 58,144 15,625 180,106 44,506 94,136	2,550,272 337,757 2,353,015 36,130 54,069 27,812 39,679 65,693 38,384 25,558 800,764 7,399 6,573 13,700 273,492 530,005 60,304 36,664 64,424 16,752 199,616 104,871	33. 652 2.469.485. 35.075 52.180 28.635 67.381 5.766 7.205 13.637 294.027 577.146 68.344 38.425 17.416 17.416 223.898 48.919 117.223 39.651	33,769 49,413 28,420 28,420 28,420 21,103 36,221 68,464 29,700 22,144 758,257 6,744 7,781 13,642 311,943 622,825 67,153 40,045 77,858 18,463 249,587 3,145	2666.862 32,217 46,588 28,490 24,267 68,323 100,415 20,455 6,439 8,278 1327-162 668.042 65,931 41,468 82,967 14,468 82,967 14,468 82,967 14,468 14,268 14,468 14,268 14,268 14,268 14,268 14,268 15,268 16	317.850 2745.270 30,431 43,741 28,688 12,274 52,387 66,997 100,225 19,823 684,666 6,168 8,664 13,553 337,843 705,001 64,815 42,622 87,353 19,899 300,026 51,855 160,513	305,441 2,801,748 28,321 40,745 28,468 11,608 00,414 64,685 98,14 18,905 644,043 342,624 730,611 63,928 43,424 90,785 20,474 319,887 52,368 175,752	289,492 2,840,862 27,805 37,665 10,818 28,396 61,646 94,228 18,009 5,729 8,970 13,350 342,634 142,677 63,389 43,713 92,945 20,930 333,826 54,228 189,831	271,408 2.848.003 23,839 34,643 26,384 57,969 88,663 17,193 580,952 5,511 8,958 13,193 339,089 39,320 62,487 43,653 93,913 21,214 342,201 56,242 201,310	253.404 2.823,077 31.773 31.773 54.50 16. 8,872 12.99 332,455 723,502 11.245 345,373	256.837 2.774.512 29,083 27,0 30,674 3,709 12,767 323,599 705,231 342,545 92,409 21,010 343,735	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20



TABLE 5 Births by World Region, 1950-2025

World regions are listed according to population growth rates—lowest to highest—as projected by the United Nations for 1990–2025. Statistics in the chart are average annual number of births (in thousands) in each of the 5 year intervals. Colors indicate the ratio (as a percentage) of a region's share of world births to share of world population.

Share of births is less than 70 percent of share of population
70 to 89 percent
90 to 109 percent
110 to 129 percent
130 to 149 percent
150 percent and more

World 98,457 102,586 111,759 119.0 More Developed Regions 19,424 15,77 19,565 1359 Less Developed Regions 79,033 82,808 92,192 100,690 1 Western Europe 2,360 3 22 234 232 234 232 234 232 234 232 234 232 234 232 234 232			1950-55	1955-60	1960-65	1965-70
Western Europe	Wor	ld	98,457	102,586	111,759	119.0
Western Europe	Mor	e Developed Regions	19,424	19,779	19,566	18.359
2 Southern Europe 2,360 3 Japan 2,054 4 Northern Europe 1,222 5 Eastern Europe 1,841 6 Northern America 4,274 7 Former U.S.S.R. 4,943 8 Other East Asia 2,5342 10 Temperate South America 745 11 Oceania 25,342 10 Caribbean 8,423 9,484 10,128 11,039 12 Caribbean 8,423 9,484 10,128 11,039 14 India 16,575 18,185 19,656 21,072 15 Tropical South America 4,235 4,779 5,408 5,604 16 Central America 1,895 17 Northern Africa 2,680 18 Southern Africa 728 804 899 941 19 Southern Asia (minus India) 6,143 c 19 Western Asia (minus India) 6,143 c 10 Western Africa 3,382 10 Western Africa 3,382 11 Jesus 1,274 1,398	Less	Developed Regions	79,033			100,690
2 Southern Europe 2,360 3 Japan 2,054 4 Northern Europe 1,222 5 Eastern Europe 1,841 6 Northern America 4,274 7 Former U.S.S.R. 4,943 8 Other East Asia 2,5342 10 Temperate South America 745 11 Oceania 25,342 10 Caribbean 8,423 9,484 10,128 11,039 12 Caribbean 8,423 9,484 10,128 11,039 14 India 16,575 18,185 19,656 21,072 15 Tropical South America 4,235 4,779 5,408 5,604 16 Central America 1,895 17 Northern Africa 2,680 18 Southern Africa 728 804 899 941 19 Southern Asia (minus India) 6,143 c 19 Western Asia (minus India) 6,143 c 10 Western Africa 3,382 10 Western Africa 3,382 11 Jesus 1,274 1,398	ı	Western Europe	2,503		2.822	2.232
Northern Europe	2		2,360		107 (1)	Last
Northern Europe	3	Japan	2,054	223	1.659	1.408
6 Northern America Former U.S.S.R. 8 Other East Asia 9 China 10 Temperate South America 11 Oceania 12 Caribbean 13 Southeastern Asia 1 India 16.575 18.185 19.656 21.072 15 Tropical South America 16 Central America 17 Northern Africa 18 Southern Africa 19 Northern Africa 20 Western Asia 21 Western Asia 22 Middle Africa 24.234 24.235 25.408 26.2080 27 Southern Africa 28 Southern Africa 29 Southern Asia 20 Western Asia 20 Western Africa 20 Western Africa 21 Western Africa 22 Middle Africa 23.382 24 Middle Africa 25.342 26 Southern Africa 26.800 27 Southern Asia 28 Southern Asia 29 Southern Asia 20 Western Asia 20 Western Asia 21 Southern Africa 22 Middle Africa 23.382 24 Southern Africa 25.342 25.342 26 Southern Asia 27 Southern Asia 28 Southern Asia 29 Southern Asia 20 Western Asia 20 Western Asia 21 Southern Africa 22 Middle Africa 23 Southern Africa 24 Southern Africa 25.342 26 Southern Asia 27 Southern Asia 28 Southern Asia 29 Southern Asia 29 Southern Asia 20 Western Asia 20 Western Asia 21 Southern Asia 22 Middle Africa 23 Southern Asia 24 Southern Asia 25 Southern Asia 26 Southern Asia 27 Southern Asia 28 Southern Asia 29 Southern Asia 20 Western Asia 20 Western Asia 21 Southern Asia 21 Southern Asia 22 Middle Africa 23 Southern Asia 24 Southern Asia 25 Southern Asia 26 Southern Asia 27 Southern Asia 28 Southern Asia 29 Southern Asia 20 Western Asia 20 Southern Asia 20 Southern Asia 21 Southern Asia 22 Southern Asia 23 Southern Asia 24 Southern Asia 25 Southern Asia 26 Southern Asia 27 Southern Asia 28 Southern Asia 28 Southern Asia 29 Southern Asia 20 Southern Asia 20 Southern Asia 20 Southern Asia 20 Southern Asia 21 Southern Asia 22 Southern Asia 23 Southern Asia 24 Southern Asia 25 Southern Asia 26 Southern Asia 27 Southern Asia 28 Southern Asia 29 Southern Asia 20 Southern Asia 21 Southern Asia 22 Southern Asia 23 Southern Asia 24 Southern Asia 25 Southern Asia 26 Southern Asia 27 Southern Asia 28 Southern Asia 28 Sou	4	Northern Europe	1,222		31378	
Former U.S.S.R. 8 Other East Asia 9 China 10 Temperate South America 11 Oceania 12 Caribbean 13 Southeastern Asia 14 India 15.75 18 Inst 19.656 19 Tropical South America 10 Central America 11 Oceania 12 Caribbean 13 Southeastern Asia 14 India 16.575 18 Inst 19.656 21.072 17 Tropical South America 18.895 18 Northern Africa 18 Southern Africa 20 Western Asia 21 Western Africa 21 Western Africa 22 Widdle Africa 23 Assouthern 24 Assouthern Africa 25,342 26 Assouthern Africa 2680 27 Assouthern Asia (minus India) 28 Assouthern Asia (minus India) 29 Western Asia 20 Western Africa 3,382 3,480 4,779 5,408 5,604 4,779 5,408 5,604 5,604 5,779 5,408 5,604 6,799 6	5	Eastern Europe	1,841	7.7	1,423	1.448
8 Other East Asia 25,342 10 Temperate South America 745 11 Oceania 369 12 Caribbean 836 13 Southeastern Asia 8,423 9,484 10,128 11,039 14 India 16,575 18,185 19,656 21,072 15 Tropical South America 4,235 4,779 5,408 5,604 16 Central America 1,895 17 Northern Africa 2,680 18 Southern Asia (minus India) 6,143 20 Western Asia (minus India) 6,143 21 Western Africa 3,382 22 Middle Africa 1,274 1,398	6	Northern America	4,274		4.578	3.963
9 China 25,342 10 Temperate South America 745 11 Oceania 369 12 Caribbean 836 13 Southeastern Asia 8,423 9,484 10,128 11,039 14 India 16,575 18,185 19,656 21,072 15 Tropical South America 4,235 4,779 5,408 5,604 16 Central America 1,895 17 Northern Africa 2,680 18 Southern Africa 728 804 899 941 19 Southern Asia (minus India) 6,143 9 20 Western Asia 2,161 2,693 2,942 21 Western Africa 3,382 22 Middle Africa 1,274 1,398	-	Former U.S.S.R.	4,943		1317	***
9 China 25,342 10 Temperate South America 745 11 Oceania 369 12 Caribbean 836 13 Southeastern Asia 8,423 9,484 10,128 11,039 14 India 16,575 18,185 19,656 21,072 15 Tropical South America 4,235 4,779 5,408 5,604 16 Central America 1,895 17 Northern Africa 2,680 18 Southern Asia (minus India) 6,143 20 Western Asia (minus India) 6,143 21 Western Africa 3,382 22 Middle Africa 1,274 1,398	8		37. 1 V.	1,623	1,683	***
11 Oceania 369 12 Caribbean 836 13 Southeastern Asia 8,423 9,484 10,128 11,039 14 India 16,575 18,185 19,656 21,072 15 Tropical South America 4,235 4,779 5,408 5,604 16 Central America 1,895 17 Northern Africa 2,680 18 Southern Africa 728 804 899 941 19 Southern Asia (minus India) 6,143 9 20 Western Asia 2,161 2,693 2,942 21 Western Africa 3,382 2,693 2,942 22 Middle Africa 1,274 1,398	9	China	25,342		.,,,,,,	
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14 India 16,575 18,185 19,656 21,072 15 Tropical South America 4,235 4,779 5,408 5,604 16 Central America 1,895 17 Northern Africa 2,680 3376 18 Southern Africa 728 804 899 941 19 Southern Asia (minus India) 6,143 2,161 2,693 2,942 21 Western Africa 3,382 3,382 3,80 22 Middle Africa 1,274 1,398	13	Southeastern Asia	8,423	9,484	10.128	11,039
15 Tropical South America 4,235 4,779 5,408 5,604 16 Central America 1,895 17 Northern Africa 2,680 378 18 Southern Africa 728 804 899 941 19 Southern Asia (minus India) 6,143 320 20 Western Asia 2,161 2,693 2,942 21 Western Africa 3,382 2,693 880 22 Middle Africa 1,274 1,598	l-±		16,575	18,185		
16 Central America 1,895 17 Northern Africa 2,680 18 Southern Africa 728 804 899 941 19 Southern Asia (minus India) 6,143 3 2,161 2,693 2,942 21 Western Africa 3,382 3,382 3,382 3,242 3,800 22 Middle Africa 1,274 1,398		Tropical South America	4,235	4,779	5,408	
18 Southern Africa 728 804 899 941 19 Southern Asia (minus India) 6,143 c 20 Western Asia 2,161 2,693 2,942 21 Western Africa 3,382 55 380 22 Middle Africa 1,274 1,398		Central America	1.895	751	1 to (2)	
19 Southern Asia (minus India) 6,143 c 20 Western Asia 2,161 2,693 2,942 21 Western Africa 3,382 22 Middle Africa 1,274 1,398	٦,	Northern Africa	2,680 a	4	200	4 v. 3.537
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20 Western Asia 2,161 2,693 2,942 21 Western Africa 3,382 363 4,880 22 Middle Africa 1,274 1,398	19	Southern Asia (minus India)	6,143	Q.	91 - FN	4716
21 Western Africa 3,382 22 Middle Africa 1,274 1,398		Western Asia	2,161		2,693	2,942
22 Middle Africa 1,274 1,398	21		3,382		4.363	
23 Eastern Africa	22	Middle Africa	1,274	1,398	1000000	
	23	Eastern Africa	70.2 3.473 C	ž.		

Statistics: UN Population Division, 1990 estimates and projections, medium variant series.

TABLE 6 Deaths by World Region, 1950-2025

World regions are listed according to population growth rates—lowest to highest—as projected by the United Nations for 1990–2025. Statistics in the chart are average annual number of deaths (in thousands) in each of the 5 year intervals. Colors indicate the ratio (as a percentage) of a region's share of world deaths to share of world population.

	Share of deaths is less than 70 percent of share of population
£5.	70 to 89 percent
<i>§</i> "	90 to 109 percent
	110 to 129 percent
1	130 to 149 percent
	150 percent and more

		1950-55	1955-60	1960-65	1965-70
Wo	rld	51.741	49,625	49,026	46.728
Moi	re Developed Regions	8.681	8.576	8.761	9,436
Less	Developed Regions	+3.061	+1.109	40.265	37,292
ı	Western Europe	1,642	1.691	1,767	1.878
2	Southern Europe	1,158	1 1 24	1.136	1.158
3	Japan	815	144	704	्र 701
4	Northern Europe	812	S. Carried	863	890
5	Eastern Europe	810	279.2019	3.697. ****	7576ĭ
6	Northern America	1,633	1.767	1.897	2,048
7	Former U.S.S.R.	1,729	1.55	1.602	1.847
8	Other East Asia	1,006	513	517	501
9	China	14,531	13,035	11,840	8,483
10	Temperate South America	281	289		331
+1	Oceania	166	170	176	191
12	Caribbean	276	263	263	254
13	Southeastern Asia	4.660	4.625	4.480	4.335
14	India	9,396	9,072	9,079	9,173
15	Tropical South America	1,491	1.540	1,596	1,628
16	Central America	685	667	673	707
17	Northern Africa	1,354	1,358	1,423	1,452
18	Southern Africa	350	352	367	373
19	Southern Asia (minus India)	3.304	3,430	3,561	3,695
20	Western Asia	1.062	1,063	1,050	1.059
21	Western Africa	1.898	1,926	2,117	2,239
22	Middle Africa	776	790	818	842
23	Eastern Africa	1.939	2,005	2,087	2,191
	. 1949 b. 1. 1.0				

Statistics: UN Population Division, 1990 estimates and projections, medium variant series,

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1970.75	1975-80	1980-85	1985-90	1990-95	1995-00	2000-05	2005-10	2010-15	2015-20	2020-25	
122.202	120,508	128.177	57,415	140.09**	149,549	148,753	148.003	148,186	146,250	145,256	
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818	739	773	821	841	840	834	846	872	891	907	12
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22.419 5.810	22,690 6,243	25,258 6,642	25,922 6,932	27,859 7,107	28.002 7 ,200	27,504 7,331	26,511 7,459	25,009 7,5 54	22,737 7,617	23,913 7,642	14 15
3.215	3.135	3,301	3,453	3,580	3,658	3,722	3,781	3,845	3,905	3,945	16
3,798	4,162	4,612	4.872	5,131	5,317	5,+58	5,460	5,291	5,052	5,122	17
1,014	1.091	1.187	1,300	1.397	1.478	1.540	1,592	1.611	1.596	1.541	18
9,908	11,132	12,623	13,526	14,722	15,267	15,636	15.544	14.907	14,555	13.924	19
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5,6 81	6,583	7,497	8,815	10,242	11,545	12,894	14,182	14,904	14,995	geo.	23
1970-75	1975-80	1980-85	1985-90	1990-95	1995-00	2000-05	2005-10	2010-15	2015-20	2020-25	
±~.0~8	·+=.265	18.079	49,650	50,891	51,858	53,086	54.936	57,306	59.645	63,612	
1.158	10.487	11.091	11.665	11,721	11,975	12 180	22000	13,316	11001	14,289	
37,111	36,778	36,989	37,984	39,167	39,983	40,706	41,946	43,990	45,764	49.324	
,						,					•
1.901	1,886	1,940	1.941	1,893	1.828	1,920	1.956	2.002	2,081	2111	1
1.204 712	1,225	1,251	1,361 855	1,407 948	1,425 1,056	1,514 1,178	1,596 1,308	1.641 1,425	1,652 1,51 7	1,689	2
909	937	928	963	940	1,030	925	922	918	941	988	3 4
843	931	1,011	1.060	1.040	1.016	1.065	1.089	1,100	1,101	1,123	5
2.093	2.085	2,195	2,351	2,443	2,554	2,629	2,733	2.83	3,002	3,259	6
2,138	2,599	2,905	3,000	2,906	2.883	3.006	3.192	3.247	3.296	3,271	7 8
466 7 ,635	384	395	418 7,360 1	7.788	483 8.192	526 8,754	582 9,347	644 10,049	722 10,921	794 12,106	9
342	348	357		406	432	462	492	521	551	592	10
198	193	194	20~	219	231	242	255	268	284	311	11
247	243	248	260	269	276	286	303	320	352	384	12
4.386	4.369	3,954	3,761	3,782	3,738	3.779	3,937	4,129	4,438	4,816	13
9,273	9.089	9.244	0.154	9.167	8,937	8,806	8,719	8,842	9,095	9,846	14
1,624 715	1.676 686	1,727 690 تات	1,820 699	1,894	1,981 745	2,084 805	2,254 862	2,421 i 970	2,67 4 1,083	2,965 1,239	15 16
1,466	1,444	1,449	1.422	1,406	1,384	1.379	1,402	1,443	1,486	1,592	17
.380	385	391	394	390	389	390	402	423	446	480	18
4,010	4,009	4,155	4,222	4,307	4.398	4,372	4,327	4,154	4.394	4,237	19
1,038 2,388	972 2,557	1,020 2,734	1,044	1.044 3,148	1.048 3,324	1,095 3,486	1.147 3.618	1,232	3,654	3,625	20 21
2,388 8 76	2,557 9 28	2,734 98 7	2,951 1,033	1, 0 99	1,153	1,205	1.249	3,656 1,281	1,276	1,256	21
2,325	2,510	2,846	2,981	3,122	3,277	3.438	3,5,37	3.615	3,623	3,653	23

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TABLE 7 Women Ages 15-49 by World Region, 1950-2025

World regions are listed according to population growth rates—lowest (Western Europe, row 1) to highest (Eastern Africa, row 23)—as projected by the United Nations for the 35-year interval, 1990-2025. The number of women is in thousands.

	Number of women ages 15–49 is less than 1.75 times size in 1950
	less than 1.75 times size in 1950
	1.75 to 2.4 times size in 1950
.ÀS	2.5 to 3.24 times
	3.25 to 3.9 times
	4.0 to 4.74 times
	4.75 times and more

TABLE 8 Fertility Rates by World Region, 1950-2025

World regions are listed according to population growth rates—lowest (Western Europe, row 1) to highest (Eastern Africa, row 23)—as projected by the United Nations for the 35-year interval, 1990-2025. The total fertility rate represents the average number of children a woman will bear on completion of her childbearing years under prevailing age-specific fertility rate conditions.

below 2.6 erage
3.6
•

	1950	1955	1960	1965
W'orld	623,196	665,208	706,435	766,689
More Developed Regions	223,824	232,366	235,549	246,356
Less Developed Regions	399,373	132.84	470,886	520,333
l Western Europe	36,775	X.T.	35,975	36,581
2 Southern Europe	29.040	29.99	50,141	·· 30,957
3 Janan	21,392	23,381	, 25,3 91	28,014
4 Northern Europe	18,241	17,846	17,700	18,076
5 Eastern Europe	19.227	19,619	19,546	20,407
6 Northern America	42,356	43.66	35,872	49,493
Former U.S.S.R.	54,303	58,600	58,007	59,583
8 Other East Asia	7,673	8,521	9,470	10,467
9 China	134,010	138,139	<u> </u>	157,417
10 Temperate South America	6,560	7,090	7,598	8,181
11 Oceania	3,051	4.342	3,602	4,013
12 Caribbean	4.051	45,5	4,750	5,188
1.3 Southeastern Asia	43,998	48,369	53,012	58,227
14 India	83,968	93,319	103,112	113,546
15 Tropical South America	20,485	23.	26,273	. 30,170
16 Central America	8,520	9.684	11,151	12,786
1" Northern Africa	12,127	13,459		16,091
18 Southern Africa '	3,774	4,172	4,636	5,224
19 Southern Asia (minus India)	27,532	30.411	33,438	37,385
20 Western Asia	9,922		12,324	13,940
21 Western Africa	14,701	Wild.	18,634	21,048
22 Middle Africa	6,446	4	7.70	8,464
23 Eastern Africa	15,046	*	1.1.67	21,431

Statistics: UN Population Division, 1990 estimates and projections, medium variant series.

		1950-55	1955-60	1960-65	1965-70
Wor	dd	× 14	4.9	5 0	4.9
Moi	e Developed Regions	2.8	2.8	2.7	2.4
	Developed Regions	6.2	6.0	0.1	6.0
1	Western Europe	2.4	2.5	. , -	2.5
2	Southern Europe	2	2.6	·	2.7
3	Japan	2.8	12 TO 1	2.0	2.0
4	Northern Europe	2.3		2.8	2.5
5	Eastern Europe	3.0	2.7	2.3	2.4
6	Northern America	1,5	3.7	3,3	2.5
-	Former U.S.S.R.	2.8	2.8	2.5	2.4
8	Other East Asia		6.0		4.4
9	China ·	6.2	5.4	5,9	6.0
10	Temperate South America	3,5	3.5	3,6	3.3
11	Oceania	1.8	4.1	3.0	: 4
12	Caribbean	:	5.1		5.0
13	Southeastern Asia	6.0	6.1	5.0	5 S
14	India	6.0	5,9	5.5	`
15	Tropical South America	0.4	6.4	6.4	50
16	Central America	0.8	0.8	6.8	6.7
17	Northern Africa	6.8	7.0	7.1	6.9
18	Southern Africa	6.5	6.5	6.5	5.9
19	Southern Asia (mir us Ingia)	6.6	6.6	6.5	6.5
20	Western Asia	6.8	6.7	6.5	6.3
21	Western Africa	0.8	0.8	65	(6,9)
22	Middle Africa	5,9	5.9	6.0	6.0
23	Eastern Africa	6.8	6.8	(1.9)	6.9
	1915 1				

Statistics: UN Population Division, 1990 estimates and projections, medium variant series,

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					_			1110	1015	2020	2025
(1	.)	1980	**155	: 990	1115]-*(H)	2005	2010	2015	2020	2025
857,702	951,734	1.062,021	1.188,780	1.319.564	1, 64-4,055	1.567,880	1.687, 498	1.814.397	1.928,444	2.021,849	2,105,846
		206.102	205 250	202 621	310.019	311,771	308,875	303,332	297,255	203 752	Ze291,119
263,336 594,366	275.504 676,230	286,193 775,829	295,868 892,912	302,521 1,017,043	1.1.5-6.035	1.256.109	1,378,622	1.511.065	13.11.59	28.098	1.814.727
20.057	10.015	41.660	43,161	43,124	42,706	41,864	40,756	39,304	37,163	35.14.67	1 1 1
38.857 31,818	40,045 32,695	41,668 33,878	34,939	36,009	36,795	36,482	35,688	34,696	33,299	31.7	2 2 3
29,704	30,384	30,624	30,806	31,468	30,994	29,276	28,097	27,693	27,433		25,439 3
18,176	18,438	19,240	20,238	20,875	20,836	20,347	20,258	20,040	19,361	13.633	48,216 4
22.216	22.904	22,812	23.026	23,703	24.929	25,197	24.728	24,311	24,521	24,550	24,365
54,187	59,513	65,217	69,627	72,828	74,721	75,309	74,660	72,794	70,866	70,303 20,426	70,677 6
64,761	67.504	68,325	69,171	69,173	73,429	77,534	78,82 4	78,582	7 8, 681	80,486	82,120 7
11,804	13,913	16.078	18,577	20.698	22.099	23,028	23,611	23.564	23,463	22,826	21.980 8
183,562	206,008	236,850	275,991	312,009	353,380	345.578	355,989	371,570	375,436	360,401	342.625 9
8.882	9,626	10,326	11,058	11,927	12,892	13.778	14.538	15.218	15.862	16.507	17.026 10
4,491	5,010	5,553	6.183	6,806	7.278	64_	7.986	8.279	8.547	8,743	8,920 11
5,600	6,290	7,146	8,022	8.876	9,445	10.002	10.641	11.23	11.509	11,705	11.954 12
66.010	76,078	86.746	49,543	113,523	F28.060	143.514	156,950	168,651	178 504	185,045	189,034 13
126.291	141,903	159.836	179,925	202.321	225,602	253.492	281.186	310.408	337 3919	300,647	579,063 14
35,299	+1.385	48.59	55,954	63.434	71.509	79,429	30.730	* * * * * *	98,823	104.026	108.862 15
15,102	17.825	21.144	25,025	29.640	33.907	.5 383	+2.604	10/244	49,940	52,654	54,649 1 16 73,550 1~
18,400	21,135	24.558	28.458	32.866	38.313	44.457	211, 1411	766 g 87 7 609 29	62,565 ;7 69 t	68.356 19.420	73,550 1~ 21.099 18
5,964	6,865	7.884	8,946	10.111	11,382	12.806	14,3-4	(42.641	160,972	178,725	194,745 19
42,555	49,327	57.295	66.417	,-20	90,900	107,663	124,730	53,398	60.075	66,839	73,478 20
16,310	19,102	22.034	25,803	30.104	34.995 50.314	111, 12 3	7,1 5.41	33,6	98,782	115,942	134,298 21
23,943	27,550	31.848 11,976	36,906 13,702	±2.9±7 15.819	18.389	21,461	25,226	20.831	35,293	41,625	48,732 22
9,369 24,404	10,541 27,692	32,387	37,308	13.596	51,191	sit.(572	12.195	86.154	102,257	120,543	149,606 23
[97() TS	1975 50	1980-85	1985 90	1990-95	1995-00	2000-05	2005-10	2010-15	.2015-20	2020-25	
4,5	3.8	3.6	3.5	3.3	3.1	3.0	2.8	2.6	2.4	Mar- ×	Š ej
			5.9			•		2121			
2.2	5.0	1.0					• •	• • •	1.0	1.714.777	77
1				10	1.9	1 9	1.9	1.9	1.9	V. 1.9°	
	4.5	4.2	3.9	3.7	1.9	1.9	1.9 2.9	1.9	1.9 2.5	23	ابد
		4.2									اس 1
1.9	1.6		3.9	3.7	3.5	.5.2	2.9	1.8 1.8	2.5 1.8 1.8	2.3 1.8	
		4.2 1.6	3.9 1.6	3.7 1.6	1.7 1.7 1.8	1.7 1.7 1.8	1.8 1.7 1.8	1.8 1.8 1.8	1.8 1.8 1.8 1.8	1.8 1.8	
1.9 2.5	1.6 2.3	1.6 1.8 1.8 1.8	3.9 1.6 1.6 1.7 1.8	3. ⁻ 1.6 1.6 1.7 1.8	1.7 1.7 1.8 1.8	1.7 1.7 1.8 1.9	1.8 1.7 1.8 1.9	1.8 1.8 1.8 1.9	2.5 1.8 1.8 1.8 1.9	1.8 1.8	
1.9 2.5 2.1 2.1 2.2	1.6 2.3 1.8 1.8 2.3	1.6 1.8 1.8 1.8 2.1	3.9 1.6 1.6 1.7 1.8 2.0	3.7 1.6 1.6 1.7 1.8 1.9	1.7 1.7 1.8 1.8	1.7 1.7 1.8 1.9	1.8 1.7 1.8 1.9	1.8 1.8 1.8 1.9	1.8 1.8 1.8 1.9	2.3 1.8 1.8 1.9	
1.9 2.5 2.1 2.1 2.2 2.0	1.6 2.3 1.8 1.8 2.3	1.6 1.8 1.8 1.8 2.1	3.9 1.6 1.6 1.7 1.8 2.0 1.8	3.7 1.6 1.0 1.7 1.8 1.9	1.7 1.7 1.8 1.8 1.9	1.7 1.7 1.8 1.9 1.9	1.8 1.7 1.8 1.9 1.9	1.8 1.8 1.8 1.9 1.9	1.8 1.8 1.8 1.9 1.9	2.3 1.8 1.9 1.9	1 2 3 4 5 6
1.9 2.5 2.1 2.1 2.2 2.0 2.4	1.6 2.3 1.8 1.8 2.3 1.9 2.3	1.6 1.8 1.8 1.8 2.1 1.8 2.4	3.9 1.6 1.6 1.7 1.8 2.0 1.8 2.4	3.7 1.6 1.0 1.7 1.8 1.9 1.8 2.3	1.7 1.7 1.8 1.8 1.9 1.9	1.7 1.7 1.8 1.9 1.9 1.9	1.8 1.7 1.8 1.9 1.9 1.9	1.8 1.8 1.8 1.9 1.9 1.9	2.5 1.8 1.8 1.9 1.9 1.9 2.1	2.3 1.8 1.9 1.9 1.9	1 2 3 4 5 6 7
1.9 2.5 2.1 2.1 2.2 2.0 2.4	1.6 2.3 1.8 1.8 2.3 1.9 2.3	1.6 1.8 1.8 1.8 2.1 1.8 2.4	3.9 1.6 1.6 1.7 1.8 2.0 1.8 2.4 2.5	3.7 1.6 1.0 1.7 1.8 1.9 1.8 2.3 2.3	1.7 1.7 1.8 1.8 1.9 1.9 2.3 2.2	1.7 1.7 1.8 1.9 1.9 2.2 2.1	1.8 1.7 1.8 1.9 1.9 1.9 2.2 2.1	1.8 1.8 1.8 1.9 1.9 2.1	1.8 1.8 1.8 1.9 1.9 2.1 2.0	2.3 1.8 1.9 1.9	1 2 3 4 5 6 6 7 8
1.9 2.5 2.1 2.1 2.2 2.0 2.4 4.5 4.8	1.6 2.3 1.8 1.8 2.3 1.9 2.3 3 3 2.9	1.6 1.8 1.8 1.8 2.1 1.8 2.4 2.1	3.9 1.6 1.6 1.7 1.8 2.0 1.8 2.4 2.5 2.5	3.7 1.6 1.0 1.7 1.8 1.9 1.8 2.3 2.3 2.3	1.7 1.7 1.8 1.8 1.9 1.9 2.3 2.2 2.1	1.7 1.7 1.8 1.9 1.9 2.2 2.1	1.8 1.7 1.8 1.9 1.9 1.9 2.2 2.1	1.8 1.8 1.8 1.9 1.9 2.1 2.0	1.8 1.8 1.8 1.9 1.9 1.9 2.1 2.0	2.3 1.8 1.9 1.9 1.9	1 2 3 4 5 6 7 8
1.9 2.5 2.1 2.1 2.2 2.0 2.4 4.5 4.8 3.2	1.6 2.3 1.8 1.8 2.3 1.9 2.3 3.3 2.9	1.6 1.8 1.8 2.1 1.8 2.4 2.9 2.4	3.9 1.6 1.6 1.7 1.8 2.0 1.8 2.4 2.5 2.5 3.0	3 1.6 1.6 1.7 1.8 1.9 1.8 2.3 2.3 2.3 2.3	1.7 1.7 1.8 1.8 1.9 1.9 2.3 2.2 2.1	1.7 1.7 1.8 1.9 1.9 2.2 2.1 1.9	1.8 1.7 1.8 1.9 1.9 1.9 2.2 2.1 1.8 2.4	1.8 1.8 1.8 1.9 1.9 2.1 2.0 1.8 2.3	1.8 1.8 1.8 1.9 1.9 2.1 2.0 1.8 2.2	23 18 18 19 19 19	1 2 3 4 5 6 7 8 9
1.9 2.5 2.1 2.1 2.2 2.0 2.4 4.5 4.8 3.2 3.2	1.6 2.3 1.8 1.8 2.3 1.9 2.3 2.3 2.9 3.2	1.6 1.8 1.8 1.8 2.1 1.8 2.4 2.1 2.4 3.1	3.9 1.6 1.6 1.7 1.8 2.0 1.8 2.4 2.5 2.5 3.0 2.5	3 1.6 1.6 1.7 1.8 1.9 1.8 2.3 2.3 2.3 2.3 2.4	1.7 1.7 1.8 1.8 1.9 1.9 2.3 2.2 2.1 2.6 2.3	1.7 1.7 1.8 1.9 1.9 2.2 2.1 1.9 2.5 2.3	1.8 1.7 1.8 1.9 1.9 2.2 2.1 1.8 2.4 2.2	1.8 1.8 1.8 1.9 1.9 2.1 2.0 1.8 2.3 2.1	1.8 1.8 1.8 1.9 1.9 2.1 2.0 1.8 2.2	23 18 18 19 19 19 19	1 2 3 4 5 6 7 8 9
1.9 2.5 2.1 2.1 2.2 2.0 2.4 4.5 4.8 3.2 3.2 4.4	1.6 2.3 1.8 1.8 2.3 1.9 2.3 4.3 2.9 2.3 2.9 3.5	1.6 1.8 1.8 1.8 2.1 1.8 2.4 2.0 2.4 3.1 2.6 3.2	3.9 1.6 1.6 1.7 1.8 2.0 1.8 2.4 2.5 2.5 3.0 2.5	3.7 1.6 1.6 1.7 1.8 1.9 1.8 2.3 2.3 2.3 2.3 2.3	1.7 1.7 1.8 1.8 1.9 2.3 2.2 2.1 2.6 2.3 2.8	1.7 1.7 1.8 1.9 1.9 2.2 2.1 1.9 2.5 2.3	1.8 1.7 1.8 1.9 1.9 2.2 2.1 1.8 2.4 2.2	1.8 1.8 1.8 1.9 1.9 2.1 2.0 1.8 2.3 2.1	1.8 1.8 1.8 1.9 1.9 2.1 2.0 1.8 2.2 2.1	1.8 1.8 1.9 1.9 1.9 1.9 1.9 1.9 2.0 2.0 2.1	1 2 3 4 4 5 6 7 8 9 10 11 12 13
1.9 2.5 2.1 2.1 2.2 2.0 2.4 4.5 4.8 3.2 4.4	1.6 2.3 1.8 1.8 2.3 1.9 2.3 3.3 2.9 3.2 2.8 3.5 4.8	1.6 1.8 1.8 1.8 2.1 1.8 2.4 2.9 2.4 3.1 2.6 3.2 4.3	3.9 1.6 1.6 1.7 1.8 2.0 1.8 2.4 2.5 2.5 3.0 3.7	3.7 1.6 1.6 1.7 1.8 1.9 1.8 2.3 2.3 2.3 2.3 2.3 2.3 2.3	1.7 1.7 1.8 1.8 1.9 1.9 2.3 2.2 2.1 2.6 2.3 2.8 3.0	1.7 1.7 1.8 1.9 1.9 2.2 2.1 1.9 2.5 2.3 2.7	1.8 1.7 1.8 1.9 1.9 1.9 2.2 2.1 1.8 2.4 2.2 2.7	1.8 1.8 1.8 1.9 1.9 2.1 2.0 1.8 2.3 2.1 2.6	2.5 1.8 1.8 1.9 1.9 1.9 2.1 2.0 1.8 2.2 2.1 2.6 2.1	1.8 1.8 1.9 1.9 1.9 1.9 1.9 1.9 2.0 2.0 2.1	1 2 3 4 4 5 6 7 8 9 10 11 12 13
1.9 2.5 2.1 2.1 2.2 2.0 2.4 4.5 4.8 3.2 3.2 4.4	1.6 2.3 1.8 1.8 2.3 1.9 2.3 2.9 3.2 2.9 3.2 2.8 4.8	1.6 1.8 1.8 2.1 1.8 2.4 2.9 2.4 3.1 2.6 3.2 4.3	3.9 1.6 1.6 1.7 1.8 2.0 1.8 2.4 4 2.5 3.0 2.5 3.0 3.7 4.3	3.7 1.6 1.6 1.7 1.8 1.9 1.8 2.3 2.3 2.3 2.3 2.4 2.9 3.3	1.7 1.7 1.8 1.8 1.9 1.9 2.3 2.2 2.1 2.6 2.3 2.8 3.0 3.7	1.7 1.7 1.8 1.9 1.9 2.2 2.1 1.9 2.5 2.3 2.7	1.8 1.7 1.8 1.9 1.9 1.9 2.2 2.1 1.8 2.4 2.2 2.7	1.8 1.8 1.9 1.9 1.9 2.1 2.0 1.8 2.3 2.1 2.6 2.2 2.5	2.5 1.8 1.8 1.9 1.9 1.9 2.1 2.0 1.8 2.2 2.1 2.6 2.1 2.1	2.3 1.8 1.9 1.9 1.9 1.19 2.0 2.0 2.1 2.1	1 2 3 4 4 5 6 7 8 9 10 11 12 13
1.9 2.5 2.1 2.1 2.2 2.0 2.4 4.5 4.8 3.2 3.2 4.4	1.6 2.3 1.8 1.8 2.3 1.9 2.3 3.3 2.9 3.2 2.8 3.5 4.8	1.6 1.8 1.8 2.1 1.8 2.4 2.9 2.4 3.1 2.6 3.2 4.3 4.8	3.9 1.6 1.6 1.7 1.8 2.0 1.8 2.4 2.5 3.0 2.5 3.0 3.7 4.3 3.7	3.7 1.6 1.6 1.7 1.8 1.9 1.8 2.3 2.3 2.3 2.3 2.4 2.9 3.3 4.1	1.7 1.7 1.8 1.8 1.9 1.9 2.3 2.2 2.1 2.6 2.3 2.8 3.0 3.7	1.7 1.7 1.8 1.9 1.9 1.9 2.2 2.1 1.9 2.5 2.3 2.7 2.6 3.3 2.9	1.8 1.7 1.8 1.9 1.9 1.9 2.2 2.1 1.8 2.4 2.2 2.7	1.8 1.8 1.8 1.9 1.9 1.9 2.1 2.0 1.8 2.3 2.1 2.6 2.2 2.5 2.6	2.5 1.8 1.8 1.9 1.9 1.9 2.1 2.0 1.8 2.2 2.1 2.6 2.1	1.8 1.8 1.9 1.9 1.9 1.9 1.9 1.9 2.0 2.0 2.1	1 2 3 4 4 5 6 7 8 9 10 11 12 13
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TABLE 9 Proportions of Children by World Region, 1950–2025

World regions are listed according to population growth rates-lowest to highest-as projected by the United Nations for the 35-year interval, 1990-2025. Statistics in the chart show the percentage of the total population under age 15.

	Children (0-14) comprise less than 20 percent of the total population
<u></u>	20 to 24 percent
b.	25 to 29 percent
	30 to 34 percent
3.6	35 to 39 percent
	40 percent and more

		1950	1955	1960	1965
World			36	3.7	44
Mo	re Developed Regions	28	28	29	28
Less	Developed Regions	38	39	41	42
ı	Western Europe	2,3	2,3	24	21
2	Southern Europe	28	27	27	27
3 4	Japan	35	• •	+()	26
	Northern Europe	2,3	24	24	2+
5	Eastern Europe	28	28	29	2-
6	Northern America	2.7	30	34	
7	Former U.S.S.R.	-91	28	3	
8	Other East Asia	٠i	+0	42	43
9	China		37	39	40
10	Temperate South America		. •	3.5	
11	Oceania	.30	32	3,3	١.
12	Caribbean	30	39	40	40
13	Southeastern Asia	30	٠٠٥	41	4.3
14	India	(9)	39	-+()	40
15	Tropical South America	+2	43	44	45
16	Central America	44	45	45	47
17	Northern Africa	41	42	43	45
18	Southern Africa	(1)	40	41	42
19	Southern Asia (minus India)	181	40	42	44
20	Western Asia	40	41	42	43
21	Western Africa	44	44	45	45
22	Middle Africa	41	42	42	43
23	Eastern Africa	44	44	45	45.

Statistics: UN Population Division, 1990 estimates and projections, medium variant series.

TABLE 10 Population in Broad Age Groups (in thousands)

		1950	1955	1960	1965
World	total	2.516.443	2.752,107	3,019,653	3,336,319
	0 to 14	869,437	980,951	1,116,594	1,256,192
	15 to 64	1.519.198	1.628.026	1,742,988	1,902,486
	65 and over	127,807	143,133	160,067	177,641
More	total	832.425	887,424	944,851	1.002.920
Developed	0 to 14	231.264	245,484	269,813	279,258
Regions	15 to 64	537,595	570.051	594,789	633,065
	65 and over	63,566	71,887	80,250	90.597
Less	total	1,684.018	1.864.684	2,074,801	2,333,400
Developed	0 to 14	6.38.1-5	735,465	846,783	976,933
Regions	15 to 64	981.600	1,057,973	1,148,201	1,269,422
	65 and over	64.242	71,245	79,817	87,044

Statistics: UN Population Division, 1990 estimates and projections, medium variant series.

TABLE 11 Percent Distribution of Population in Broad Age Groups

World	0 to 14	35	36	37	38
	15 to 64	60	59	58	57
	65 and over	5	5	5	5
More	0 to 14	28	28	29	28
Developed	15 to 64	65	64	63	63
Regions	65 and over	8	8	8	9
Less	0 to 14	38	39	41	42
Developed	15 to 64	58	57	55	54
Regions	65 and over	4	4	4	4

Statistics: UN Population Division, 1990 estimates and projections, medium variant series,

1970	1975	1980	1985	1990	1995	2000	2005	2010	2015	2020	4	
34	3-	35		•	:		at	29	27	26	25	
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42	41	30	.5~	56	,35	•	* 1	ν,	29	27	26	i ·
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46	46	46	46	47	47	47	46	45	42	40	36	21
43	44	45	45	45	46	46	46	45	44	742	38	22
46	46	46	47	47	47	47	46	45	43	41	1 37	23
40	40	40	4/	4/	47	47	40	4)	43		. 3/	2.0
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1970	1975	1980	1985	1990	1995	2000	2005	2010	7015	2020	2025	
3,697,849	4.079,023	4,448,037	4.851.433	5,292,195	5,770,286	6,260,799	6 730 220	2 204 242	7 . 50 050	0.001.430	0 504 222	
1,386,957	1.504,616	1,566,235	1.624.624				6,739,230	7,204,343	7.659,858	8.091,628 2.079,600	8,504.223	
2.110.756	2.342.665			1.710.393	1.848,134	1,966,950	2,037,527	2,063,913	2.074.772		2,085,212	
		2,617,827	2,936,768	3.254.169	3,547,432	3,869,335	4,225,741	4,616,690	1.987,282	5,304,215	5,590,847	
200,138	231.741	263,985	290.039	327,634	374,720	424.516	475,964	523.739	*a= \$65	707,913	928.164	Part - 41
1.048,890	1.095,170	1,136,500	1,174,365	1,206,557	1.236,045	1,264,077	1.288.605	1,309,555	1.327,398	1,342,047	1.353.936	ì
278,863	271,551	263.014	259,759	257,373	255,749	252,550	249,871	247,932	145,708	243.265	241,107	
669,016	06.08	742.626	779.848	803,571	819.82	838,710	853,087	868,227	0.953	565,783	555.806	Wash to
101.007	117,535	130.858	134,754	145,614	160,468	172,819	185,645	193,398	210.734	232,998	257.026	ونشفو
1011007	11 (7.57	1301070	134074	147,014	1004,001	1/2,01/	100,040	493,396		.2.72.7 13	~ 1 .026	
2,648,959	2.983,853	3,311.53	3.677,068	4,085,638	4.534.241	4,996,722	5.450.625	5,894,787	6,332,461	6.749.581	7.150,287	
1.108.093	1.233.066	1.303.220	1,364,866	1.453,020	1.592,384	1,714,400	1.787,656	1,815,980	<20.064	1.836.335	1.844.105	
1.441.736	1.636,580	1.875.199	2,156,917	2.450.599	2,727,605	3.030.625					4.7,35,046	2.00
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5	6	6	6	6	6	7	7	7	8	9	10	
							•	,	·	,	10	
2~	25	23	22	21	21	20	19	19	19	18	18	
64	64	65	66	67	66	66	66	66	66	65	63	
16	11	12	11	12	1.3	14	14	15	16	17	19	
										• ,	17	
42	4 1	39	37	36	.35	34	33	31	29	27	26	
54	55	57	59	60	60	61	62	64	65	66	66	_
4	4	4	-1	4)	5	5	5	6	6	7	8	•
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TABLE 12 Population of the United States, 1890-1990

The 50 states and the District of Columbia are ranked in order of population growth rates—lowest to highest—for the overall period 1940–1990. Statistics show population in thousands. Colors indicate population in former years as a percentage of the 1990 population size. Washington, D.C. (row 1) in 1890, for example, was 38 percent (orange) its 1990 size.

	Population is 85 percent or more of its size in 1990			55 to 69	percent			25 to 39 percent				
70 to 84 per	cent size in	1950		40 to 54	percent			La L	ess than 25	percent		
	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	
U.S. Total	62.721	76,747	92,198	106,005	123,197	132,184	151,291	179.420	203,302	226,546	248,710	
Washington, D.C.	230	27-1	331	438	487	663	802	764	757	638	607	
West Virginia	703	150)	1.221	1,464	1,729	1,902	2,006	1,860		1,950	1,793	
North Dakota	176	125	577	647	681	642	620	632		653	639	
South Dakota	428	386	577	635	691	641	654	682		691	696	
Iowa	1.912	2.232	2,225	2,404	2,471	2,538	2,621	2,757		2,914 2,521	2,777 2,57 3	
Mississippi	1.290	1,551	1,797	1,791	2.010	2.184	2.179	2,178 1,41 1		1,570	1,578	
Nebraska Bananska	1.081	1.066	1.192	1.299	1,378	9,900	1.326 1 0,498	11,319		11.864	11,882	
Pennsylvania Arkansas	+ 258	302	7,665	8.720 1.752	9.632 1,854	1.949	1.910	1.786		2,286	2.351	
Kentucky	1,128	1,312 2,1 4 7	1.574 2,290	2,417	2,615	2.846	2.945	3.038		3,661	3,685	
New York	5,998	- 269	9.114	10,385	12,585	13,479		16,782		17,558	17,990	
Oklahoma	62	1.414	1.65	2,028	2.396	2,336	2.233	2.328		3,025	3,146	
Missouri	2.679	3,107	3,293	3,404	3,629	3,785	3,955	4,320		4,917	5,117	
Kansas	1,426	1,470	1,691	1,769	1.871	1,801	1,905	2,179		2,364	2,478	
Massachusetts	2,239	2.805	3,366	3,852	4,250	4.317	4,691	5,149		5,73 7	6,016	
Rhode Island	346	429	5-13	604	687	713	792	859		947	1,003	
Alabama	1.513	1.829	2.138	2,358	2,646	2.833	3.062	3,267		3,894	4,041	
Montana	132	241	376	549	538	559	591	675	5	787	799	
Illinois	3.826	+.820	5.6.39	6,485	7,631	7,897	8.712	10,081		11,427	11,431	
Maine	:-01	694	742	768	797	847	914	969		1,125	1,228 4,8 92	
Wisconsin	1.687	2.069	2,3,34	2,632	2,939	3,138	3.435	3,952 39 0		4,706 511	1,092 563	
Vermont	332	344	356	352 2,387	360 2,564	359 2:792	378 2,982				4.375	
Minnesota Ohio	1,302	1.748	2.076	2,38 5,750	6,647	6,911	7,947	9,706		10,798	10,847	
Indiana	1.672	4.148	1.767 01	, 120 2, 24	3.43Y	3,428	1,23,5	:.00.		5,490	5,544	
Tennessee	2.792 1.747	2.015	2.180	2.338	2.616	2,916		3.560		4,591	4,877	
Michigan	2.093	2,421	2.810	3,668	4.842	5,256		7.823		9,262	9,295	
Louisiana	1.119	1,382 •	1.656	: 7.11)	2:102	2,364		3,25	3,645	4,206	4.220	
Wyoming	60	92	145	194	225	250	290	330	0 332	4 70	454	
South Carolina	1,151	1,340	1,515	1.684	1.740	1.900	2,117	2,383	3 2.591	3,122	3,487	
North Carolina	1,618	1.894	2,206	2,559	3,170	1,572		4,55	_	5,882	6,629	
New Jersey	1,445	1.884	2,537	3.156	1.0-0	+.160		6.06		7,365	7,730	
Idaho	78	162	326	432	445	525		66		944	1,007	
Connecticut	746	908	1,115	1.381	1.60	1.709		2.53	G- p	3,108	3,287	
Georgia	1.837	2.200	2,591	2.8	2.908	3.142		3,9 5		5,463 921	6,478 1,109	
New Hampshire	3	412	431	443	#65 2 422	203. 2 to 2		4.06		5,347	6.187	
Virginia Delaware	1,650	1.820	2,064	2,300	2.432 238	26°		44		594	666	
Oregon	168	185	202	223 78 3		1.090		1.76	-	2,6 33	2,842	
Hawaii	314 90	414 153	673 191	255		423		63		965	1,108	
Maryland	1,042	1.188	1,295	1,450				3,10		4,217	4,781	
Texas	2,232	3,049	3,897	4.663		6,415		9,58		14.229	16,987	
Washington	349	518	1,141	1,357				2,85		+.132	4,867	
New Mexico	154	195	327	360				95		1,303	1,515	
Colorado	412	540	799	940			1.325			2,890	3,294	
Utah	208	277	373		508					1,461	1,723	
California	1.208	1,485	2,378							23,668	•	
Florida	391	529	753	968				4.95		9,7-46		
Arizona	60	120	204							2,718		
Alaska	32	64	64							10.2 800		
Nevada	46	42	62	77	7 91	1i0) 160	28				

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TABLE 13 Population and Population Density of the 426 U.S. Coastal Counties, 1890–1990 (excluding Alaska and Hawaii)

(Coastal Coun	•							i denti.			
	Land Area					Populat	and the second					
Region	(sq. miles)	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
Gulf of Mexico	⁻ 8.879	1.136	1,518	2,000	2,348	3.152	3,807	5.190	7,353	9.006	11,991	14,164
Pacific	78,502	1,277	1.636	2,920	4,040	6,328	7,448	11,241	16,172	20.485	23,835	28,760
Northeast	23,970	4.187	5,132	6,321	7,678	9,037	9,610	11,490	14,325	16.596	16.888	18,144
Southeast	3~,281	689	781	904	1,083	1,373	1,732	2,433	3,992	5,257	7,159	9.289
Great Lakes	69,036	+.731	6,228	-,964	10,251	12,990	13,550	15,535	18,367	19,855	19,344	18,938
New England	27,640	6,448	8.104	10,330	11.862	14,204	15,175	16,691	18,797	20,730	20,335	21,207
l'otals	315.308	18,468	23,399	30,438	37,262	47,085	51,322	62,580	79, 005	91.930	99.553	110,503
						Population	density per	square mil	2.00			
									3.5			
Gulf of Mexico		14	19	25	30	40	48	66	93	114	152	180
Pacific		16	21	37	51	18	95	143	206	, 261	304	366
Northeast		175	214	264	320	377	401	479	598	692	705	757
Southeast		18	21	24	29	37	46	65	107.	; 14l	192	249
Great Lakes		69	90	115	148	188	196	225	266	288	280	274
New England		233	293	374	429	514	549	604	640	750	736	767
Remaining U.S.	ı	17	20	23	26	29	3 1	34	38	42	48	52

Sources: U.S. Bureau of the Census and National Oceanic and Atmospheric Administration, National Ocean Service.

TABLE 14 Native and Foreign Born Population in the Coastal Counties (in thousands)

	Total	Native	Foreign	If foreign born, arrived in U.S.							
	Population	Born	Born	Pre-1950	1950-1959	1960-1969	970–197 9	1980-1990			
Gulf of Mexico	14,164	13,130	1,034	100	81	131	282	440			
Pacific	28.760	22,803	5,958	304	342	695	1,621	2,996			
Northeast	18.145	16.573	1,572	159	136	229	372	675			
Southeast	9,289	7,896	1.392	114	87	332	282	578			
Great Lakes	18.938	17.663	1.275	196	177	176	305	420			
New England	21,207	17,778	3,428	399	269	546	780	1.434			
Coastal Totals	110,503	95,843	14,660	1,274	1,092	2,109	3,642	6,544			
Remaining U.S. (non-coastal)	138,157	133,050	5,107	569	507	684	1,228	2,120			

Sources: U.S. Bureau of the Census and National Oceanic and Atmospheric Administration, National Ocean Service..

Analysis of Table 14 shows that in 1990, foreign born population accounted for 13 percent of the total in the U.S. coastal counties are light of percent in the non-coastal countries. Further, 60 percent of the coastal country population increase during the 1980s is due to immigrants entering the U.S. during the decadio pared to a much smaller 20 percent share in the non-coastal countries.

TABLE 15 U.S. Energy Consumption, 1960–88

	Total Energy Consumed (in trillions of BTUs)										
	1960	1970	1973	1980	1988						
New England	2.049	2,881	3,157	2.669	3,064						
Middle Atlantic	~.424	10.320	10.791	9.771	9,473						
East North-Central	9,598	13.710	15.021	14.189	13,985						
West North-Central	3.3	4.936	5,446	5,515	5,875						
South Atlantic	5.000	8,304	9,712	10,555	12,318						
East-South Central	2.900	4,483	5.094	5,388	5,667						
West South-Central	6,816	10,987	12,991	14,610	15,103						
Mountain	1.940	3.067	3,559	3,895	4,279						
Pacific	4.695	7.703	8.588	9,428	10.443						
Tatal	.13.800	66 302	73.350	76.020	90.206						

Source: U.S. Energy Information Administration, Nate Energy Data Report, Consumption Estimates, 1960–1988.

TABLE 16 World Total and Per Capita Energy Consumption Levels by Region, 1950–1986

			nergy Const ousand teraj	•		Per Capita Consumption tin gigajoules)					
•	1950	1960	1970	1980	1986	1950	1960	1970	1980	1986	
World Total	72.981	120.778	211,990	286.033	320.846	29.0	40.0	57.3	64.3	65.0	
Western Europe	9.533	14.645	24,170	29,676	31.735	67.6	96.5	146.3	174.1	· 184.6	
Southern Europe	1.507	3.429	8.038	11.364	12.348	13.8	29.0	62.6	81.9	86.5	
Japan	1.571	3,296	10.538	14.039	15.060	18.8	35.0	101.0	120.2	124.1	
Northern Europe	6.930	8,946	12.735	13.989	15.934	95.6	118.3	158.3	169.6	191.1	
Eastern Europe	2.786	5.422	9,479	13,991	14.435	39.7	68.2	110.3	151.0	151.3	
Northern America	36.760	47,710	74,397	84.873	84,465	221.3	240.2	328.5	336.9	316.4	
Former U.S.S.R.	7.964	17.873	31.193	46.050	56.683	44.2	83.4	128.5	173.4	202.6	
Other East Asia	58	584	1.806	3.615	4.724	1.7	0.01	34.	57.1	68.5	
China	868	8,710	9.941	18,541	24.429	1.6	13.2	12.0	18.6	22.7	
Temperate South America	528	889	1.716	2,271	2.544	20.7	28.9	47.3	53.7	55.2	
Oceania	4	1.286	2.397	3.460	4.163	61.2	81.5	124.0	151,8	166.8	
Caribbean	226	447	1.427	1.800	1.598	13.3	21.9	57.3	61.7	50.4	
Southeastern Asia	287	788	3,455	5.410	6.629	1.6	3.5	12.1	15.0	16.2	
India	~69	1,421	4.163	6,196	9,057	2.2	3.2	7,5	9.0	11,5	
Propical South America	668	1.640	4,925	9.384	11,111	- ₈	1 4.1	31.8	4".3	48.8	
Central America	441	899	2,158	4,238	4.878	11.8	17.8	31.0	45.7	45.5	
Northern Africa	223	375	1.001	2.443	3.026	4.3	5.8	12.0	22.8	23.9	
Southern Africa	681	1.100	1,792	2.788	3,290	43.3	55.3	70.1	86.1	88.3	
Southern Asia (minus India	130	387	1.743	2.883	3,425	1.0	2.5	8.7	11.1	11.1	
Western Asia	178	662	1,591	4.058	6.092	4.2	11.9	21.6	41.2	51.7	
Western Africa	39	cj~	1.150	1.841	2.211	0.6	1.2	10.9	13.0	13.0	
Middle Africa	28	88	56→	772	840	1.1	2.8	14.3	14.8	13.5	
Eastern Africa	32	84	1.608	2,351	2.169	1.0	1.0	14.9	16.3	12.5	

Sources, 1986 UN Energy Yearbook and 1990 UN Population Assessment,

	Popula	ition (in the	ousands)		Per Capita Consumption Levels (in millions of BTUs					
1960	1970	1973	1980	1988		1960	1970	1973	1980	1988
10.509	11.848	12,140	12,349	12.964		195	243	260	216	236
34.168	37,213	37,401	36.787	37,625		217	277	289	266	252
36,224	40,262	40.958	41.683	42,109		265	341	367	340	332
15,395	16,327	16,644	17,185	17,758		219	302	327	321	331
25.972	30.678	33,105	36,959	42.419	•	193	271	293	286	290
12.050	12.808	13.448	14.667	15.347		241	350	379	36*	369
16,951	19.326	20,563	23,746	26.871		402	569	632	615	562
0.855	8.289	9.328	11.373	13,326		283	370	382	342	321
21,198	26.549	27,773	31.800	37.364		221	290	309	296	279
179.322	203,300	211,360	226,549	2-15,783		244	327	352	336	326

TABLE 17 Economically Active Population by Region, 1950–2025

	· in	agricultur	e (in millio	ns)	in ser	in services and industry (in millions)				
	1950	1975	2000	2025	1950	1975	2000	2025		
World Total	790.8	929.3	1.178.1	1,247.1	398.9	831.3	1.588.9	2.548.2		
More Developed Regions	143.1	~5.9	33.8	12.4	245,3	432.9	584.2	614.8		
Less Developed Regions	647.~	853.4	1,144.3	1.234.7	153.6	398.4	1,004.7	1,933.4		
Western Europe	16.4	6.6	2.4	0.3	49.2	67.0	78.6	72.0		
Southern Europe	24.0	12.6	5.8	2.2	22.4	38.8	55.7	55.1		
Japan	17.9	8.2	2.3	0.5	18.8	47.3	62.3	58.7		
Northern Europe	4.1	2.0	1.0	0.5	29.3	35.9	42.1	41.3		
Eastern Europe	17.4	11.5	5.3	2.2	18.9	35.4	48.1	52.9		
Northern America	9.1	4.4	2.4	0.9	61.5	103.3	145.0	. 151.2		
Former U.S.S.R.	52.4	28.7	12.5	4.3	41.5	98.0	140.4	167.9		
Other East Asia	9.6	9.1	7.4	3.5	t. U	13.4	33.5	44.7		
China	280.1	367.0	456.2	333.0	36.8	i 14.5	306.7	514.3		
Temperate South America	2.8	2.3	1.8	1.3	7.5	12.0	18.5	25.2		
Oceania	1.7	1.9	2.0	1.6	3.~	7.2	12.1	15.8		
Caribbean	3.9	3.8	4.2	4.0	3.0	5.9	11.8	17.1		
Southeastern Asia	66.0	84.2	106.7	98.8	18.4	48.3	129.3	245.5		
India	129 8	171.9	246.1	320.0	35.6	71.3	143.3	266.1		
Tropical South America	17.0	21.7	21.7	17.1	12.1	36.3	87.8	147.6		
Central America	- 5	10.5	14.3	14.1	. 4.6	13.9	38.7	72.2		
Northern Africa	11.9	13.3	17.2	16.9	4.5	12.4	36.9	83.9		
Southern Africa	2.5	3.2	3.1	3.0	3.4	3.۳	16.0	30.4		
Southern Asia (minus India)	36.1	48.2	85.5	139.9	10.1	21.2	57.3	148.5		
Western Asia	14.4	16.0	17.6	16.9	1 4.1	14.1	42.4	93.8		
Western Africa	24.6	38.2	61.3	102.5	5.0	13.9	37.3	103.3		
Middle Africa	11.4	14.8	20.2	33 1	1.5	4.6	13.9	40.9		
Eastern Africa	30.1	49.2	81.0	130.7	3.0	9.4	31.2	99.8		

Sources, International Labor Organization (ILO) and UN 1990 Population Assessment

TABLE 18 Shares of U.S. Decennial Population Growth Attributable to Immigration, 1820–1990 (population in thousands)

	Total U.S. population	Population increase in the decade	Immigrants to the U.S.	lmmigrants as % share of the increase
1820	9.638		•	
1830	12.866	3.228	143	4
18.40	i~.069	1.203	599	14
1850	23,192	6.123	1.713	28
1860	31,443	8.251	2,598	31
1870	.38,558	7 115	2,315	33
1880	50,189	11.631	2.812	24
1890	62.721	12.532	5.247	42
1900	~6.~·-	1-1.026	3.688	26
1910	92,198	15,451	8.795	57
1920	100,005	13.80	5,736	42
1930	123.197	17.192	4.107	24
1940	132.184	8.98	528	6
1950	151.291	19,10	1.035	5
1960	179.420	28.129	2,515	9
19 "0	203,302	23.882	3.322	14
1980	226.546	23,244	4.493	19
1990	248.710	22.164	7,338	33

Sources: U.S. Bureau of the Census and Immigration and Naturalization Service 1990 Yearbook

his table shows that in the 1980s, legal immigration accounted for a third of population growth in the U.S. In the 1990s, and as a result of changes in immigration law, legal immigration will probably account for about half of all population growth. But even these numbers do not reflect the full impact of immigration on U.S. population. The official figures do not include illegal immigration, which contributed between 2 and 5 million additional people to the population during the 1980s. Nor does it take into account the children who are born to immigrants after they settle in this country. Calculating illegal immigration and the native-born children of all immigrants, immigration was probably the largest contributing factor to U.S. population growth in the 1980s. Without question, it will be the single greatest contributor to our growing population in the 1990s and beyond.



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FAIR is a national pro-limits population organization working to stop illegal immigration and put a cap on legal immigration of 300,000 per year, including refugees and asylees (the "zero population growth" rate). FAIR seeks to preserve the legal and operational mechanics needed to regulate unlawful migration. FAIR has called for a comprehensive three year moratorium on most immigration as the only feasible way to reduce substantially the level of annual admissions and bring about these goals.



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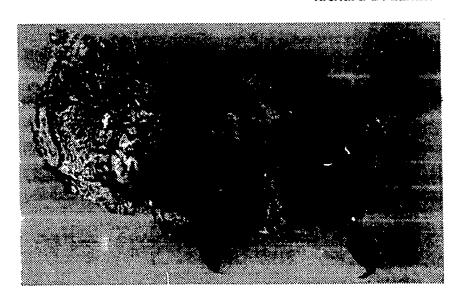


A Teacher's Guide to

Crowding out the Future

World Population Growth, U.S. Immigration, and Pressures on Natural Resources

Robert W. Fox
Ira H. Mehlman
with essays by
Garrett Hardin
Richard D. Lamm



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This teacher's guide is designed to accompany Crowding Out the Future: World Population Growth, U.S. Immigration, and Pressures on Natural Resources. That publication and this teacher's guide were made possible by a generous grant from the S.H. Cowell Foundation of San Francisco.

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Using Crowding Out the Future in the Classroom

About the Book

Crowding Out the Future is an issue-oriented book that is suitable for use in a wide variety of high school, junior college, and college-level social science classes. It applies and interrelates the disciplines of demography, geography, ecology, sociology, and political science, among others. It presents students with controversial viewpoints about some relevant and topical current issues: population growth, immigration, and environmental degradation.

You can use Crowding Out the Future to supplement a standard social sciences textbook, or you can use it as a stand-alone text and build a short course or course unit around it. This brief guide contains some ideas to help you design interesting classes that will develop critical skills in your students.

The Structure of the Book

Crowding Out the Future is divided into three major sections. Part I contains eight complex graphs and map graphs displaying international data about world population growth. Part II contains six complex graphs and map graphs and six satellite photographs displaying the effects of population growth on the natural resources and environment of the United States. The third part, the Appendix, contains 18 statistical tables that form the basis for the graphs and supplement them.

In addition, three short essays—the foreword by Dan Stein, and the introductions to Parts I and II by Garrett Hardin and Richard D. Lamm—present the ideological argument of the book.

Teaching Skills

Crowding Out the Future is based on satellite photographs and data in several advanced computer graphs and map graphs, as well as on numerous sophisticated, yet clear, numerical tables. It is ideal for teaching students how to understand and interpret the graphic and statistical materials they will increasingly encounter in newer textbooks and in multimedia presentations.

Teaching Interrelated Disciplines and Current Events

This text draws upon and interrelates several social science disciplines. You can use it to illustrate each of these disciplines, to show how they are used to examine a problem, and to show how they present different aspects of a single issue. You can also use it to illuminate current events such as debates over birth control and conflicts between immigrants and native-born citizens throughout the world.

Teaching Issues Analysis

Crowding Out the Future takes a stand on several controversial issues. It argues that:

- 1. World population is growing rapidly, especially in less-developed countries, and this creates stress on the world's environment and pressure to emigrate from these countries.
- 2. Immigration to the United States is a major contributing factor to this country's population growth, and this creates pressure on the environment and resources of this country.
- 3. Therefore, efforts should be made to control world population growth, and immigration to the U.S. should be limited.

Advanced students can analyze the book critically. They can be asked to determine what its arguments are and to what extent they are supported by the evidence, who its authors are and what the authors' biases are, and what arguments exist on the other side of the issues. Then they can formulate their own positions on the issues.



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Understanding International Population Growth

Learning Objectives:

In this classroom lesson, students should learn and understand the concepts of population growth, the difference in population growth rates among regions and between developed and less developed countries, and the significance of increasing urbanization of the world's population.

Skills to Be Developed:

Map reading, graph reading, three-dimensional graph reading, and interpretation of maps and graphs.

Lesson Preparation:

The reading assignment should be at least pages 8-13 of Crowding Out the Future. Students should read these sections, including the graph captions and graph keys, examine and study the graphs, and be prepared to interpret the graphs in class. The classroom should have a wall world map, or students should have world maps available at their desks.

Vocabulary to Be Developed:

Population growth, population explosion, environment, resource consumption, developed world, underdeveloped world, less developed region, urbanization, agrarian, migration, natural increase, industrial economy, demographic momentum.

Classroom Discussion:

- 1. You should ensure that students have basic map-reading skills, and that they are able to identify regions of the world on abstract maps such as those presented on pages 8-9. Compare the map graph on these pages with the wall world map, and point out major regions such as North and South America, Europe, Africa, East Asia, and Australia. Note how this book divides the world into regions, as they are listed on page 4.
- 2. Do students understand: the map key on page 9, that the three world maps in the graph represent three time periods, the meaning of the white lines, the meaning of the map colors, and why regions may have two different colors? Can they make rough estimates from the graphs? Once students understand the first graph, lead similar discussions of the other graphs that have been assigned.
- 3. Once students are able to read and interpret the graphs, they should explain their import. What are the implications of world population growth? What are the causes and implications of the disparity in growth rates between more and less developed regions?
- 4. In how many years does a country's population double if its annual growth rate is 1.8, 3.5, or 6.2 percent? What are the advantages or disadvantages to a country of a slow growth rate or of a fast growth rate?

Some Topics for Advanced Discussion or Writing Assignments:

How do geographers divide the world into regions; what factors go into determining world regions? How do demographers make population projections and estimate what the population of a country or region will be years into the future? How do rural regions support urban areas? Could cities be self-sufficient?



The Implications of Population Growth for the United States

Learning Objectives:

In this classroom lesson, students should learn and understand the concepts of the immigration component of population growth in the United States, the increasing urbanization of U.S. population, and the impact of population growth on resource consumption.

Skills to Be Developed:

Interpretation of the meaning of complex graphic graphs and map graphs; interpretation of satellite photography. Recognition of various social science disciplines.

Lesson Preparation:

Students should be assigned a section of Part II of *Crowding Out the Future*, at least pages 26-35, and preferably pages 26-39. A wall map of the United States or individual desk maps should be available. Students should research the basic definitions of social science disciplines such as demography, ecology, sociology, political science, and geography.

Vocabulary to Be Developed:

Demography, ecology, geography, gross national product (GNP), ecosystem, wetlands.

Classroom Discussion:

- 1. Can students understand and interpret the satellite photograph on page 43, relate the region in the photograph to a map of the United States, interpret the meaning of the different colors in the photograph, and explain what it shows?'
- 2. Can students interpret the graphs on pages 28-31 displaying energy use worldwide and in the United States? You can review map-reading skills using the graph on pages 32-33.
- 3. Social scientists, using their different disciplines, look at different aspects of the same issue and present it in different perspectives. Students already have a general idea of what is entailed in the various disciplines, but most students are unable to articulate the different approaches. Use this material to illustrate how different social scientists would approach the issue, and show how different disciplines are incorporated in this section.
- 4. People in the United States use more energy resources per capita than people in other developed countries. What possible explanations are there for this? Do individuals in the U.S. consume more energy in their personal lives? Do manufacturing or agricultural industries in the U.S. use more energy? If so, do U.S. industries make more goods or use more energy to make the same amount of goods? How can this be determined?

Some Topics for Advanced Discussion or Writing Assignments:

Environmental concerns are usually presented as a matter of conservation or of using resources more efficiently. This book says that the increased population of the United States makes conserving resources more difficult or even impossible. Students can write individual essays on the subject of how (and whether) population relates to the environment. They can make a group classroom display, inventing their own graphic representation either of this material or of another resource, such as water.



Page 3

Relating to Current Events and Local Issues

Learning Objectives:

Relating classroom and text materials to current events; understanding the local impact of national and international issues.

Skills to Be Developed:

Reading, understanding, and interpreting satellite photographs; relating them to current events; reading and understanding newspapers and news magazines.

Lesson Preparation:

Students should read pages 40-49 of Crowding Out the Future. They should also read one week of the local newspaper and the current issue of Time, Newsweek, or U.S. News & World Report. A wall map of the United States or individual desk maps should be available.

Vocabulary to Be Developed:

Watershed, catch basin, bay, tributary system, estuary, basin (in geography), aqueduct, habitat, slouth, silt, eutrophication, hydrological, transpiration, suburban, exurban, aquifer,

Classroom Discussion:

- 1. Students should be able to locate the areas in the satellite photographs on a map of the United States and to interpret the satellite photographs. By following the photograph captions, they should be able to explain what details in the photographs show.
- 2. This section of the book covers environmental problems in the Middle Atlantic, the Southwest, the Southeast, the Northwest, and the Midwest. Most students will live in one of these regions. Were the students aware of the environmental problem in their region before they read this book? Did any recent stories in the local or national news media relate to this problem? If not, the class could research the most recent articles about the issue in local newspapers or magazines.
- 3. Are there any similar issues—for example, crowded landfills, overburdened waste disposal plants, water supply problems—in your local town or city?
- 4. This section places special emphasis on the delicate ecology of the United States' coastal regions and on the concentration of population in these regions. Does increased population necessarily place additional stress on the environment? Could the concentration of population on the coasts be controlled without limiting population growth?

Some Topics for Advanced Discussion or Writing Assignments:

Students who are particularly interested in one of the problems presented in this section may wish to write an extra-credit paper on proposals for solving it. How do the other subjects in this book relate to current events? At any time, there will be news about immigration issues in the United States or Europe, conflicts between immigrants and native-born citizens, refugee flows due to environmental disasters, or famines that result from overpopulation and ecological stress. Students should locate such news stories and write an essay that gives the background behind the current news report.



Page 4

Using Statistical Tables in the Social Sciences

Learning Objectives:

Students should gain an understanding of the growth of world and U.S. population; the rise of urbanization; disparities in birth rates, fertility rates, and death rates among regions; how fertility and death rates affect the age structure of a society; and how a nation's age structure relates to the size of its labor force.

Skills to Be Developed:

Reading, understanding, and interpreting tables and tabular statistical materials; relating tables to graphs.

Lesson Preparation:

It could be useful to teach this class in cooperation with the teacher of a class in statistics, who would relate the techniques used in developing these tables to the general practice of statistical analysis. Students should study and analyze the tables on pages 50-63 of *Crowding Out the Future*.

Vocabulary to Be Developed:

Population growth rate, fertility rate, birth rate, death rate.

Classroom Discussion:

- 1. Students should be able to demonstrate that they understand what each table shows. For example, Table 2 shows the actual growth rate of each world region and also shows whether the region's growth rate was (or is projected to be) higher or lower than the world's average growth rate during a particular five-year period.
- 2. Students should be able to pick out the extremes in a table and to understand the meaning of the figures. In Table 8, for the period 1985-1990, Western Europe had a total fertility rate (TFR, of 1.6, while Eastern and Western Africa had a TFR of 6.9. What effect would that have on the growth rate of a region?
- 3. Students should be able to visualize the age structure of the world and of less and more developed regions from Tables 10 and 11. Students can practice turning raw numerical data into graphs by drawing simple age population pyramid graphs based on Table 11.
- 4. Your statistical expert should discuss the uses of statistics in the social sciences, and how statistics are being used increasingly often even in the "soft" social sciences, such as sociology and history

Some Topics for Advanced Discussion or Writing Assignments:

Students can be assigned to design and construct their own statistical tables, using data from a standard reference book such as the Statistical Abstract or the World Almanac. For example, a student may want to design a table to show the relationship between the degree of urbanization and the per capita income of states, using information from the Statistical Abstract. The student should ask a question or postulate a relationship that the table can demonstrate, construct the table, and determine whether the relationship is demonstrated or not. If a relationship is apparent, is there any alternate explanation? (For example, does rearranging the states by region rather than by degree of urbanization demonstrate a more meaningful relationship?)



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Critical Analysis of the Issues

Learning Objectives:

Critical analysis of issues and of reading materials; presenting arguments clearly and forcefully.

Skills to Be Developed:

Close analytical reading; library research; argumentation and debate; persuasive expository writing.

Lesson Preparation:

This class may extend over two to five days. Students should read the foreword by Dan Stein and the essays by Garrett Hardin and Richard D. Lamm. They should research Stein, FAIR (the publisher of this book), Hardin, and Lamm, and locate other related materials by them. They should also locate and read materials by critics of the position taken by this book.

Stein is executive director of FAIR, a nonprofit public interest advocacy group. There are several recent newspaper and magazine articles about FAIR; you or the class may also want to write to the organization for more information. Hardin is a "sociobiologist" and "bioethicist" who has written several books; he is best known for a widely reprinted article, "The Tragedy of the Commons." Lamm is a former governor of Colorado whose relevant books include *The Angry West* and *The Immigration Time Bomb*.

If students are unable to locate materials by opponents of this position, you may suggest they look up recent books by Ben Wattenberg and Julian Simon.

Vocabulary to Be Developed:

Environmentalism, Malthusianism, cornucopianism, renewable resources, resource substitution.

Classroom Discussion:

- 1. Are students able to rephrase the arguments made by Stein, Hardin, and Lamm in their own words? Do the facts presented in the graphs, satellite photographs, and tables in the book fully support these arguments, or do they contradict them?
- 2. What are the views of major world religions about population growth and control, migration, and their relationship to the environment?
- 3. Have students been able to locate materials by writers who oppose these arguments? What case do these writers make? Do they dispute the facts in this book, or do they interpret the meaning of these same facts differently? Do they present other facts that this book does not include? Do their facts support the arguments they make?
- 4. Do students know the history of the population issue? Do they know about Thomas Malthus and his major works, including An Essay on the Principles of Population? Do they know the history of the population movement in the United States? Are they familiar with Paul Ehrlich's The Population Bomb and the organization Zero Population Growth?

Some Topics for Advanced Discussion or Writing Assignments:

After research and discussion, students should be able to write an essay either supporting or attacking the positions taken by this book on population growth, its impact on natural resources, and its implications for American immigration policy. You may also organize debate teams to explore the topics further.





Sample Examination Questions

Skills-Based Questions

Skills-based questions have objectively correct, but not necessarily precise, answers. Close estimates should get partial credit. For example, the best answer to #1 is "about 330 million." You may give full credit within an error margin of 15 million and half credit for an answer between 300 and 350 million.

- 1. Look at the map graph on pages 12-13. In the year 2000, what, roughly, will be the population of Asia, excluding Japan?
- 2. Look at the graph on pages 20-21. In the period 1985-1990, what was the approximate number of births annually in the less developed regions of the world? The approximate number of deaths? By approximately how much did births exceed deaths annually?
- 3. Refer to Table 5, on page 54. Which region has reduced its share of world births the most? Which region's share of world birth has increased the most?
- 4. Refer to Table 12, on page 60. According to its color range, Wisconsin's population in 1920 is what percentage of its 1990 population? Can you make any generalization about the ten states with the highest growth rates? Which states don't fit this generalization?

Issue-Based Questions

Issue-based questions ensure that students understood the text and the classroom discussion. Some questions are objective. Others require students to present opinions from the book, but do not require them to accept those positions.

- 1. Describe what an aquifer is. Where is the Ogallala aquifer? What environmental problem does this text suggest faces the Ogallala aquifer?
- 2. How can demographers estimate the size of the labor force in a country 20 years in the fixture? How can they estimate what the size of a country's population in 20 years? Which estimate is likely to be more accurate? Why?
- 3. What factors determine the rate of population growth—in other words, how is the rate of population growth calculated mathematically? [This question would be based on material covered in classroom discussion. Substitute topics from your own classes.]
- 4. What does the text describe as the environmental consequences of urbanization?

Critical Thinking Questions

A final examination could include essay questions that require critical analysis. Students are graded on presenting the text's and their own positions clearly and logically, and supporting their position thoughtfully and factually. You may want to announce the essay topic in advance or offer a choice of topics.

- 1. What is the impact of immigration on population growth in the United States? On the distribution of population among the states? Does this impact justify limiting immigration? Is there any good reason to limit immigration to this country?
- 2. Richard Lamm writes that, "Virtually everybody takes it as a given that at some point population growth must stop," but some people don't agree. Give your position on whether population growth must stop. Support it factually and with logical arguments.
- 3. Garrett Hardin writes that, "As immigration increases will divergent cultures assimilate more rapidly to American standards? Will demands for multiple official languages cease? Will ever more diversity make political unity easier to achieve?" What are your answers to these questions? Support your position with logical arguments.



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Additional Resources

Critics of Population Growth and High Immigration

Bouvier, Leon F. Peaceful Invasions: Immigration and Changing America. Lanham, Maryland: University Press of America, 1992.

Ehrlich, Paul and Anne H. Ehrlich. The Population Explosion. N.Y.: Touchstone, 1991.

Grant, Lindsay, editor. Elephants in the Volkswagon: Facing the Tough Questions About Our Overcrowded Country. N.Y.: W.H. Freeman and Company, 1992.

Lamm, Richard D. and Gary Imhoff. The Immigration Time Bomb: The Fragmenting of America. N.Y.: E.P. Dutton & Co./Truman Talley Books, 1985.

Simcox, David, editor. U.S. Immigration in the 1980s: Reappraisal and Reform. Washington: Center for Immigration Studies, 1988.

Advocates of Population Growth and Higher Immigration

Miller, Thomas and Thomas J. Espenshade. *The Fourth Wave: California's Newest Immigrants*. Washington, D.C.: The Urban Institute, 1985.

Simon, Julian. Population Matters: People, Resources, Environment & Immigration. New Brunswick, N.J.: Transaction Publishers, 1990.

Simon, Julian. The Ultimate Resource. Princeton, N.J.: Princeton University Press, 1981. Wattenberg, Ben. The Birth Dearth. N.Y.: Pharos Books, 1987.

Organizations to Contact for Classroom Resources and Further Information

Federation for American Immigration Reform (FAIR) 1666 Connecticut Avenue, N.W.

Washington, D.C. 20009

The Population Crisis Committee 1120 19th Street, N.W. Washington, D.C. 20036

Population Environment Balance, Inc. 1325 G Street, N.W. Washington, D.C. 20005

The Population Institute 110 Maryland Avenue, N.E. Washington, D.C. 20002 Population Reference Bureau, Inc. 1875 Connecticut Avenue, N.W., Suite 520 Washington, D.C. 20009-5728

The Urban Institute 2100 M Street, N.W. Washington, D.C. 20037

The World Resources Institute 1709 New York Avenue, N.W. Washington, D.C. 20006

Zero Population Growth, Inc. 1400 16th Street, N.W. Washington, D.C. 20036

Further Suggestions for Teaching Aids

When teaching larger classes, you may find it useful to use an overhead projector, so that all students can examine a graph at the same time. Using a color photocopying machine, copy the graphs onto transparencies, and project them. Upon request, the publisher will grant permission freely to make single copies of graphs from Crowding Out the Future for classroom use.

Many students will be familiar with computer graphing or spreadsheet programs. One or two classes may be scheduled in your school's computer facility, where students who are expert in these programs can demonstrate how they can be used to construct tables and to draw a variety of graphs.



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