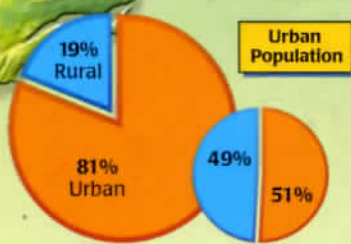
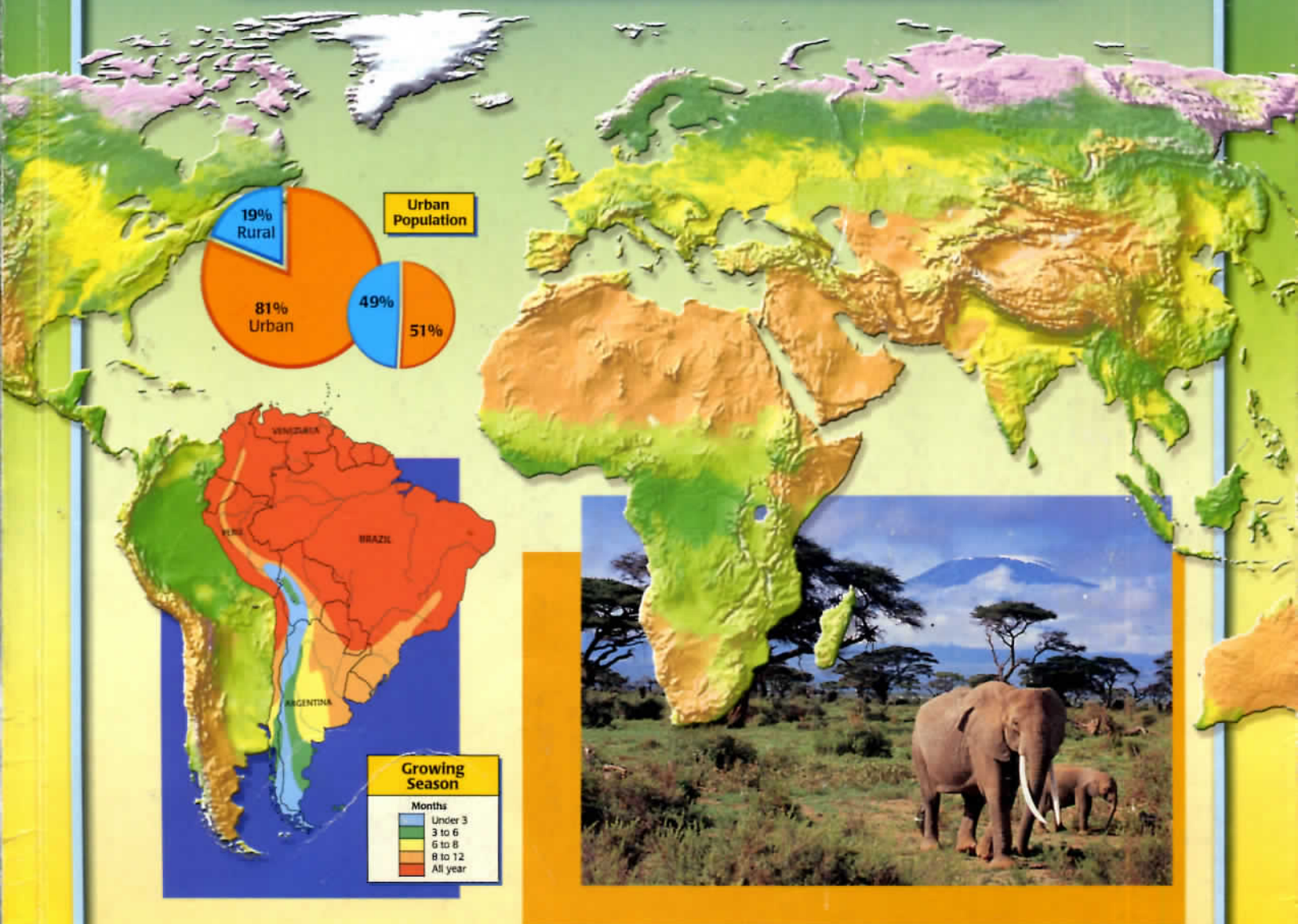


The
NYSTROM
WORLD
ATLAS



WORLD FACTS

LAND AREAS AND POPULATIONS

Continent or Region	Land Area square miles	Percentage of World	
		Land Area	Population
Africa	11,680,000	20.2	905,936,000
Antarctica	5,400,000	9.3	0
Asia	16,992,000	29.4	3,905,415,000
Australia	2,978,000	5.2	20,155,000
Europe	4,033,000	7.0	728,389,000
North America	9,348,000	16.2	516,766,000
South America	6,885,000	11.9	375,187,000
Pacific Islands	491,000	0.8	12,901,000

HIGHEST AND LOWEST ELEVATIONS

Continent	Highest Elevation feet above sea level	Lowest Elevation feet below sea level
Africa	Mt. Kilimanjaro, Tanzania 19,340	Lake Assal, Djibouti -512
Antarctica	Vinson Massif 16,864	Bentley Subglacial Trench -8,327
Asia	Mt. Everest, Nepal-China 29,035	Dead Sea, Israel-Jordan -1,348
Australia	Mt. Kosciuszko, Australia 7,310	Lake Eyre, Australia -52
Europe	Mt. Elbrus, Russia 18,510	Caspian Sea, Russia -92
North America	Mt. McKinley, U.S. 20,320	Death Valley, U.S. -282
South America	Aconcagua, Argentina 22,831	Laguna del Carbon, Argentina -344

LARGEST URBAN AREAS

City and Country	Population, including suburbs	
	actual in 2010	projected for 2015
Tokyo, Japan	36,669,000	37,049,000
Delhi, India	22,157,000	24,160,000
São Paulo, Brazil	20,262,000	21,300,000
Mumbai (Bombay), India	20,041,000	21,797,000
Mexico City, Mexico	19,460,000	20,078,000
New York, United States	19,425,000	19,968,000
Shanghai, China	16,575,000	17,840,000
Kolkata (Calcutta), India	15,552,000	16,924,000
Dhaka, Bangladesh	14,648,000	16,623,000
Karachi, Pakistan	13,125,000	14,818,000
Buenos Aires, Argentina	13,074,000	13,401,000
Los Angeles, United States	12,762,000	13,156,000
Beijing, China	12,385,000	13,335,000
Rio de Janeiro, Brazil	11,950,000	12,404,000
Manila, Philippines	11,628,000	12,587,000
Osaka-Kobe, Japan	11,337,000	11,365,000
Cairo, Egypt	11,001,000	11,663,000
Lagos, Nigeria	10,578,000	12,427,000
Moscow, Russia	10,550,000	10,641,000
Istanbul, Turkey	10,525,000	11,164,000
Paris, France	10,485,000	10,777,000
Seoul, South Korea	9,773,000	9,767,000
Chongqing, China	9,401,000	9,850,000
Jakarta, Indonesia	9,210,000	9,709,000
Chicago, United States	9,204,000	9,513,000

OCEAN AREAS AND MAXIMUM DEPTHS

Ocean	Area square miles	Maximum Depth feet
Pacific Ocean	60,061,000	35,849
Atlantic Ocean	29,638,000	28,232
Indian Ocean	26,469,000	23,812
Southern Ocean	7,848,000	23,737
Arctic Ocean	5,427,000	15,315

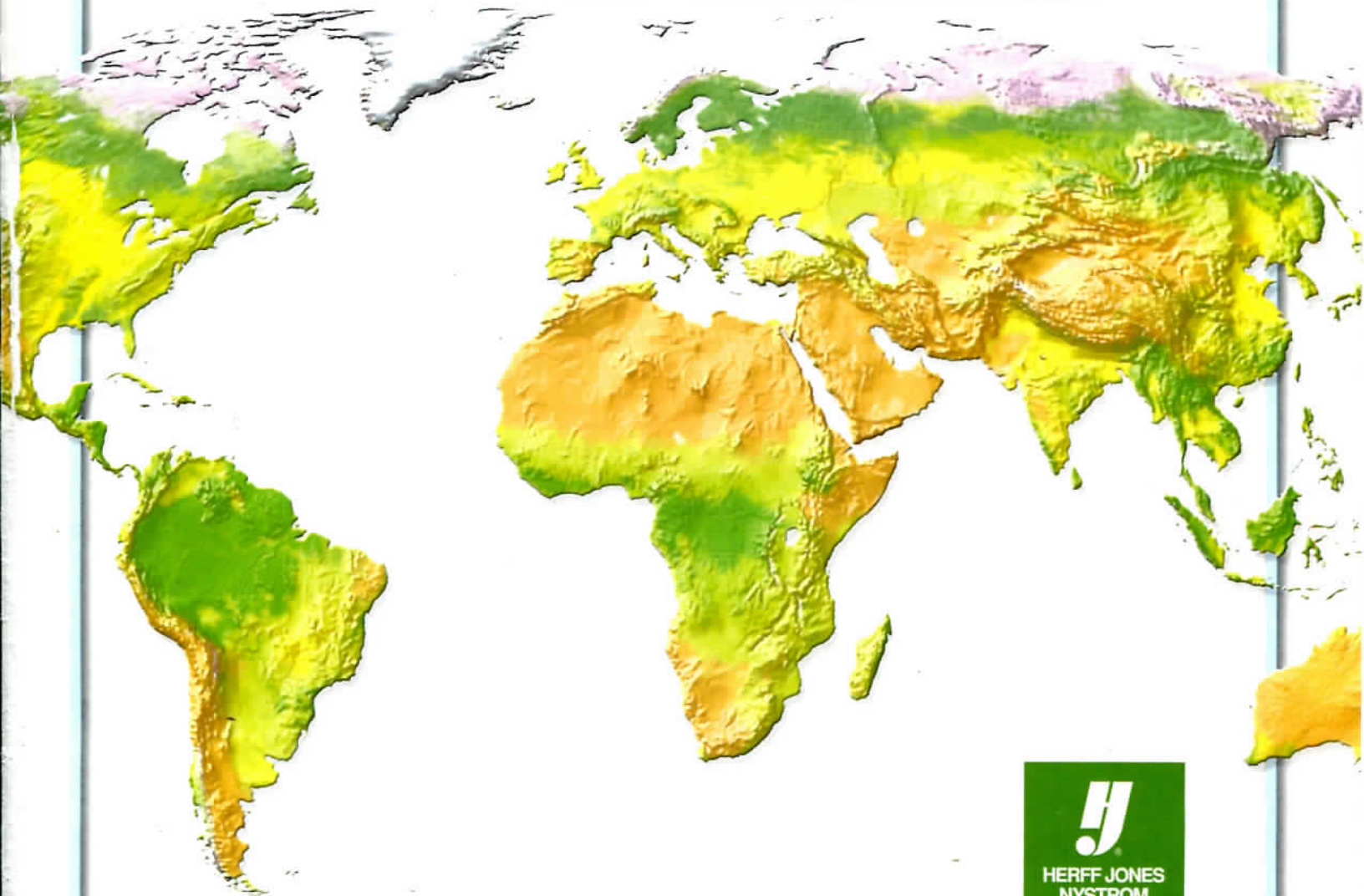
LARGEST LAKES

Lake and Continent	Area square miles
Caspian Sea, Asia and Europe	143,300
Superior, North America	31,700
Victoria, Africa	26,600
Huron, North America	23,000
Michigan, North America	22,300
Tanganyika, Africa	12,600
Baikal, Asia	12,200
Great Bear, North America	12,100
Nyasa (Malawi), Africa	11,400
Great Slave, North America	11,000
Erie, North America	9,900
Winnipeg, North America	9,416
Ontario, North America	7,300
Ladoga, Europe	6,835
Balkhash, Asia	6,670

LONGEST RIVERS

River and Continent	Length miles
Nile, Africa	4,132
Amazon, South America	4,000
Yangtze, Asia	3,915
Mississippi-Missouri system, North America	3,741
Yenisey, Asia	3,442
Huang, Asia	3,395
Ob, Asia	3,361
Parana, South America	3,032
Congo, Africa	2,900
Amur, Asia	2,761
Lena, Asia	2,734
Mekong, Asia	2,702
Mackenzie, North America	2,635
Niger, Africa	2,600
Zambezi, Africa	2,200
Volga, Europe	2,193

The
NYSTROM
**WORLD
ATLAS**



IN THIS ATLAS

The *Nystrom World Atlas* offers rich coverage of the world, each continent, and key regions. Most continents and regions have two general reference maps.

- **Land cover maps** highlight the big patterns of cropland and other vegetation.
- **Political maps** highlight cities, countries, and other political divisions.

The World and the United States each have a third general reference map.

- **Elevation maps** highlight the big patterns of mountains, lowlands, and landforms.

Thematic maps, graphs, photos, and focus sections provide a closer look at each part of the world. Learn more about these features on pages 3–5.

CONTENTS

World Facts inside front cover

World	6–25
North America	26–31
Canada	32–37
United States	38–49
Middle America	50–55
South America	56–61
Africa	62–67
Europe	68–77
Russia	78–79
Middle East	80–83
Asia	84–95
Australia	96–101
Pacific Rim	102–103
The Arctic	104
Antarctica	105

Map Projections	106–107
Glossary	108–109
Index of Places	110–120
Thematic Index	inside back cover
Abbreviations	inside back cover



**Continents
and Oceans**

Land Cover Maps

Colors on the land cover maps show the predominant vegetation on each part of the earth's land surface and the major landforms on land and on the sea floor. Places beyond the map's subject area are in a neutral color.

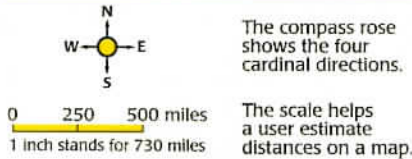


Detailed Legend for Land Cover Maps

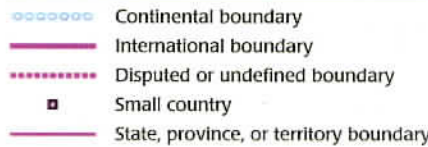
COLOR CATEGORIES



MAP FEATURES



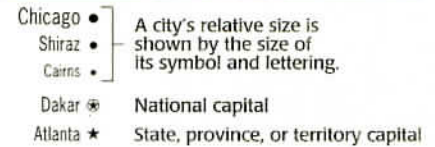
BOUNDARY SYMBOLS



LETTERING STYLES



CITY SYMBOLS



OTHER SYMBOLS



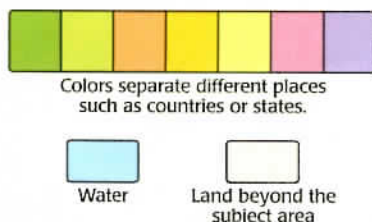
Political Maps

Colors on the political maps separate one country or state from another. Names of countries, states, and large cities are bold. Many smaller cities also are shown. Non-subject areas have a neutral color.

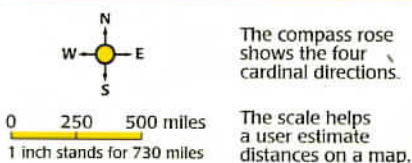


Detailed Legend for Political Maps

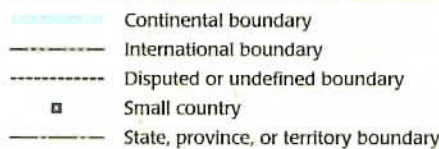
COLOR CATEGORIES



MAP FEATURES



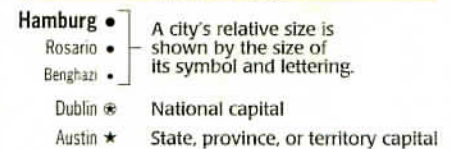
BOUNDARY SYMBOLS



LETTERING STYLES



CITY SYMBOLS



OTHER SYMBOLS



Elevation Maps

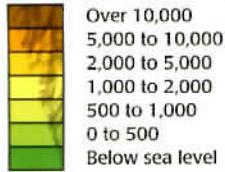
Elevation is mapped on reference maps of the World and the United States and on thematic maps of continents. Colors on the elevation maps show land elevations and water depths. Names of major natural features are in bold type.



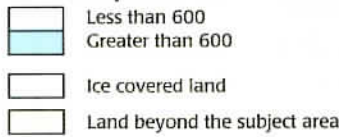
Detailed Legend for Elevation Maps

COLOR CATEGORIES

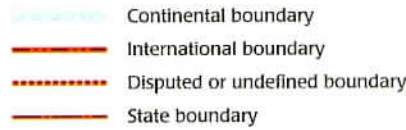
Feet Above Sea Level



Water Depth in Feet



BOUNDARY SYMBOLS



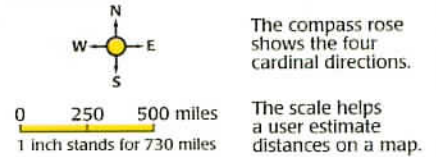
LETTERING STYLES



OTHER SYMBOLS

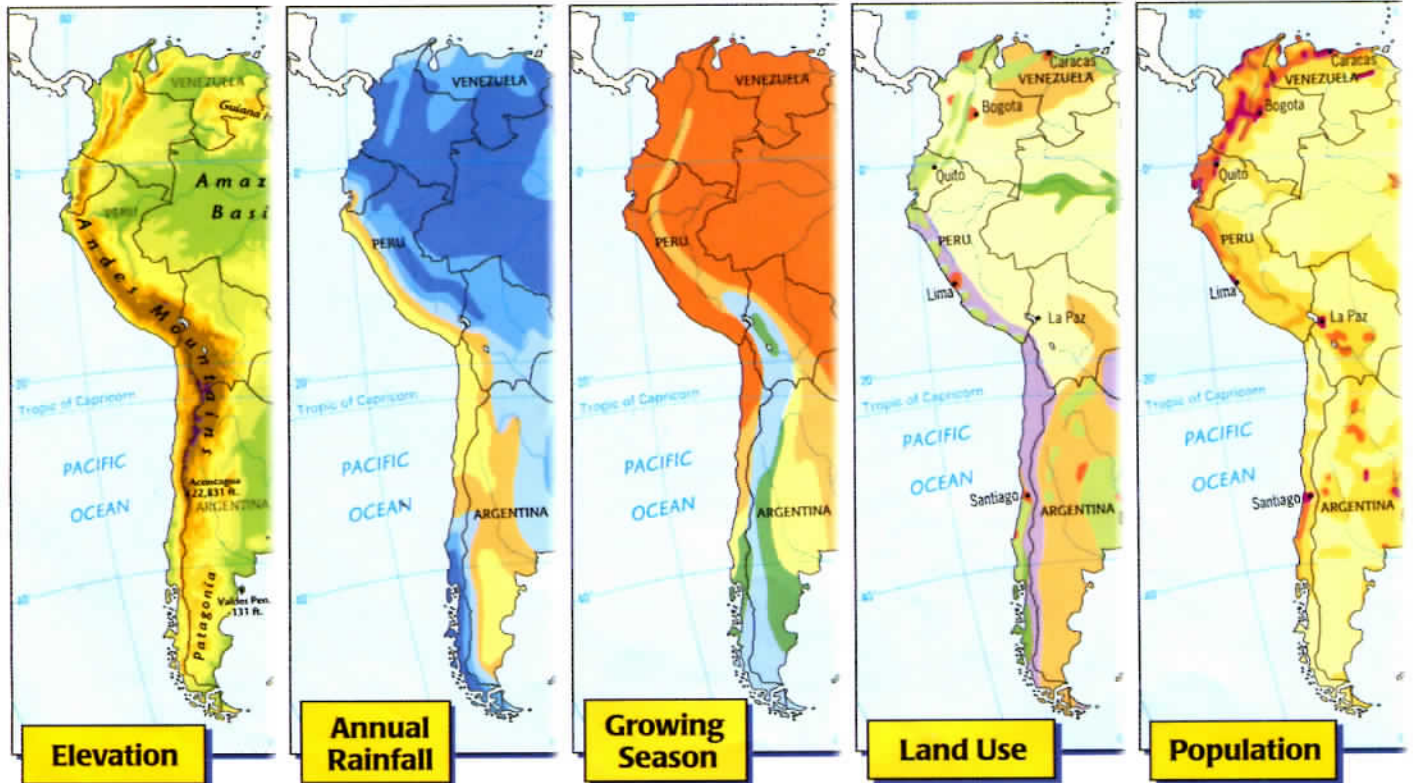


MAP FEATURES





Thematic Maps

Certain themes are mapped for each continent. Others are mapped just once. The maps that repeat are described in focus sections on pages 14–25. Examples appear below.



Major Oil Fields

-  Working oil field
-  Known oil deposit



Map Keys

Many of the maps include a key that explains their colors. The same colors can stand for elevations on one map, growing seasons on another, and oil fields on a third. Always read the key before using the map.

Locator Maps

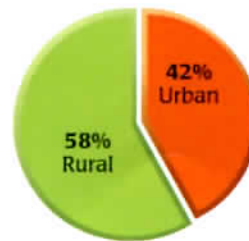
A locator map appears on each two-page spread containing reference maps. Each locator is a small map of the world that shows the position of the continent or region featured on the reference map.

Cross Sections

Special maps and diagrams show a slice of the earth to make continental landscapes and special transportation routes easier to comprehend. Cross sections exaggerate height and depth to make features easy to see.

Size Comparisons

Pairs of maps compare various regions with the familiar size and shape of the contiguous United States. Each pair is drawn to the same scale and is shown as an overlay for ease of comparison.



Graphs

The atlas includes circle graphs, bar graphs, and picture graphs. Graphs summarize complex facts in a visual way, making it easier to compare and contrast countries of the world.

Focus on

Featured Topics

Focus sections give special attention to important topics. Those on pages 12–25 introduce themes that are repeated throughout the atlas. On many pages, a bright splash of color marks questions and answers about interesting facts.



Photographs and Diagrams

The book's photographs illustrate the characteristics of people and places around the world. The book's special diagrams illustrate things that cannot be shown in photos or maps.



Sea ice Ice floating on the sea. So permanent cover, mainly near is seasonal. (104)

Sea level The average elevation high and low tide. (14)

Semi-desert Region covered by

Map Projections

Map projections are the means by which the curved surface of the earth is transferred to the flat surface of a map. Some of the infinite number of possible projections are explained on pages 106 and 107.

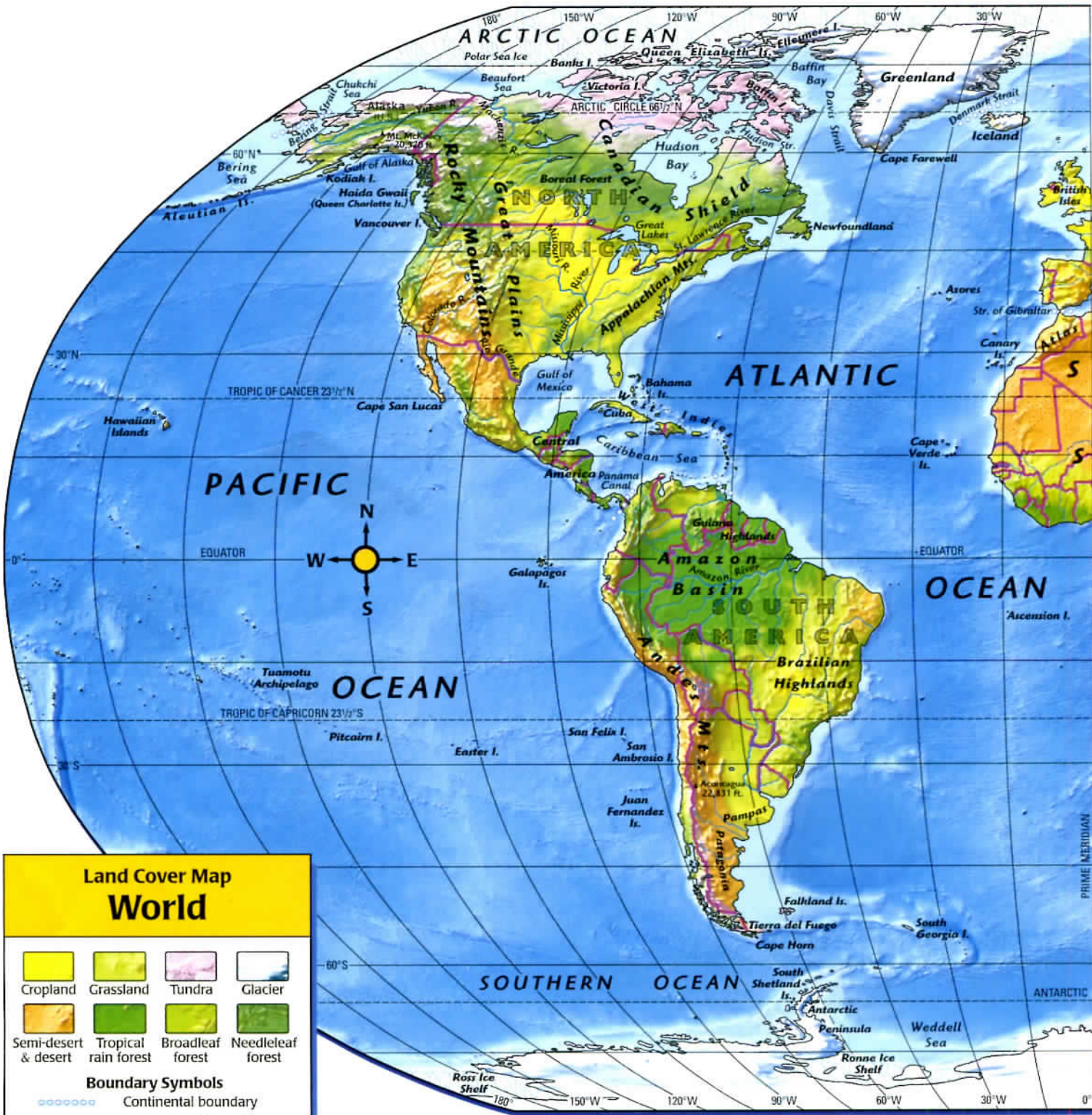
Glossary

The glossary on pages 108 and 109 defines many of the terms used on the maps and graphs and in the text of the atlas. Some of the definitions include page references to photos and special maps in the book.

Photo Credits

Credit Abbreviations: C-Corbis, GHP-Grant Hellman Photography, Inc., GI-Getty Images, IW-The Image Works, MF-Masterfile, PR-Photo Researchers; Position on the page: T-top, C-center, B-bottom, L-left, R-right

front cover: Renee Lynn/GI; back cover L: Hugh Sitton/GI, R: David Sutherland/GI; 12 A: Craig Tuttle/C, B: Nicola Sutton/GI, C: Gallo Images/Hein von Horsten/GI, D: Eric and David Hosking/C; 13 E: Michael Orton/GI, F: Wolfgang Kaehler/C, G: George Lepp/C, H: C. Voigt/MF; 14 L: J. A. Kraulis/MF, R: C; 15 L: Tom Bean/C, TR: Sandro Vannini/C, BR: Grant Dixon/GI; 16 L: David Zimmerman/MF, R: Grant Hellman/GHP; 17 L: Mark Lewis/GI, R: Connie Coleman/GI; 18 A: Glen Allison/GI, B: Jacques Jangoux/GI, C: John Lawrence/GI; 19 D: Bavaria Photographer/GI, E: B. C. Alexander/GI, F: Ernest Braun; 20 A: Louise Gubb/IW, B: Jacques Jangoux, C: John Eastcott-Yva Momatiuk/PR, D: Paul Harris/GI; 23 L: Peter Griffith/MF, R: Steve Raymer/C; 24 L: Michael Hoare, R: Hugh Sitton/GI; 25 L: John Humble/GI, R: Ian McKinnell/GI; 28: Randy Wells; 30: Pan Stock/PictureQuest; 31: Benelux Press/GI; 37: Richard Simpson; 44: Stuart Westmorland/GI; 47: Larry Lefever/GHP; 49: IFA-Bilderteam-Travel/Bruce Coleman Inc.; 55 L: Chris Cheadle, R: Chris Cheadle/GI; 58: Mark Harvey/D. Donne Bryant Stock; 59 T: Jacques Jangoux, B: Bryan Parsley; 60: Robert Fried/Stock Boston; 61: Martin Wendler/Peter Arnold, Inc.; 64 L: Ian Murphy/GI, R: Renee Lynn/GI; 65: Will & Deni McIntyre/GI; 66: George Holton/PR; 67 T: Ian Murphy/GI, B: Adrian Arbib/C; 72: Tony Craddock/GI; 73: David Turnley/C; 74: Topham/IW; 75: Michael Rosenfeld/GI; 77 T: GI, B: W. Krecichwost/MF; 78: David Sutherland/GI; 81: John Moore/IW; 83: Sylvain Grandadam/GI; 88: Nicholas DeVore/GI; 89: Hugh Sitton/GI; 91: MacDuff Everton/IW; 92 L: Bob Krist/C, R: Noboru Komine/PR; 94: Liu Liqun/C; 98 L: Ken Graham/GI, R: Gerry Ellis/ENP Images; 99: Art Wolfe/GI; 100: GI; 101: David Hiser/GI; 104: David Hiser/GI; 105: C. Carvalho/Frank Lane Picture Agency, Ltd.



Land Cover Map World

Cropland	Grassland	Tundra	Glacier
Semi-desert & desert	Tropical rain forest	Broadleaf forest	Needleleaf forest

Boundary Symbols

- Continental boundary
- International boundary
- Other boundary (disputed or undefined)

Scale at Equator

0 1000 2000 miles

1 inch stands for 1595 miles

Detailed legend on page 3



How many oceans are there?

In a sense there is only one World Ocean because it consists of a single interconnected body of water. But scientists say that it has five distinct parts—the five oceans that are named on the map.



**Political Map
World**

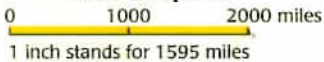
Boundary Symbols

- Continental boundary
- International boundary
- Other boundary (disputed or undefined)
- Small country

City Symbols

- Shanghai
 - Vancouver
 - Darwin
 - Cairo National capital
- A city's relative size is shown by the size of its symbol and lettering.

Scale at Equator

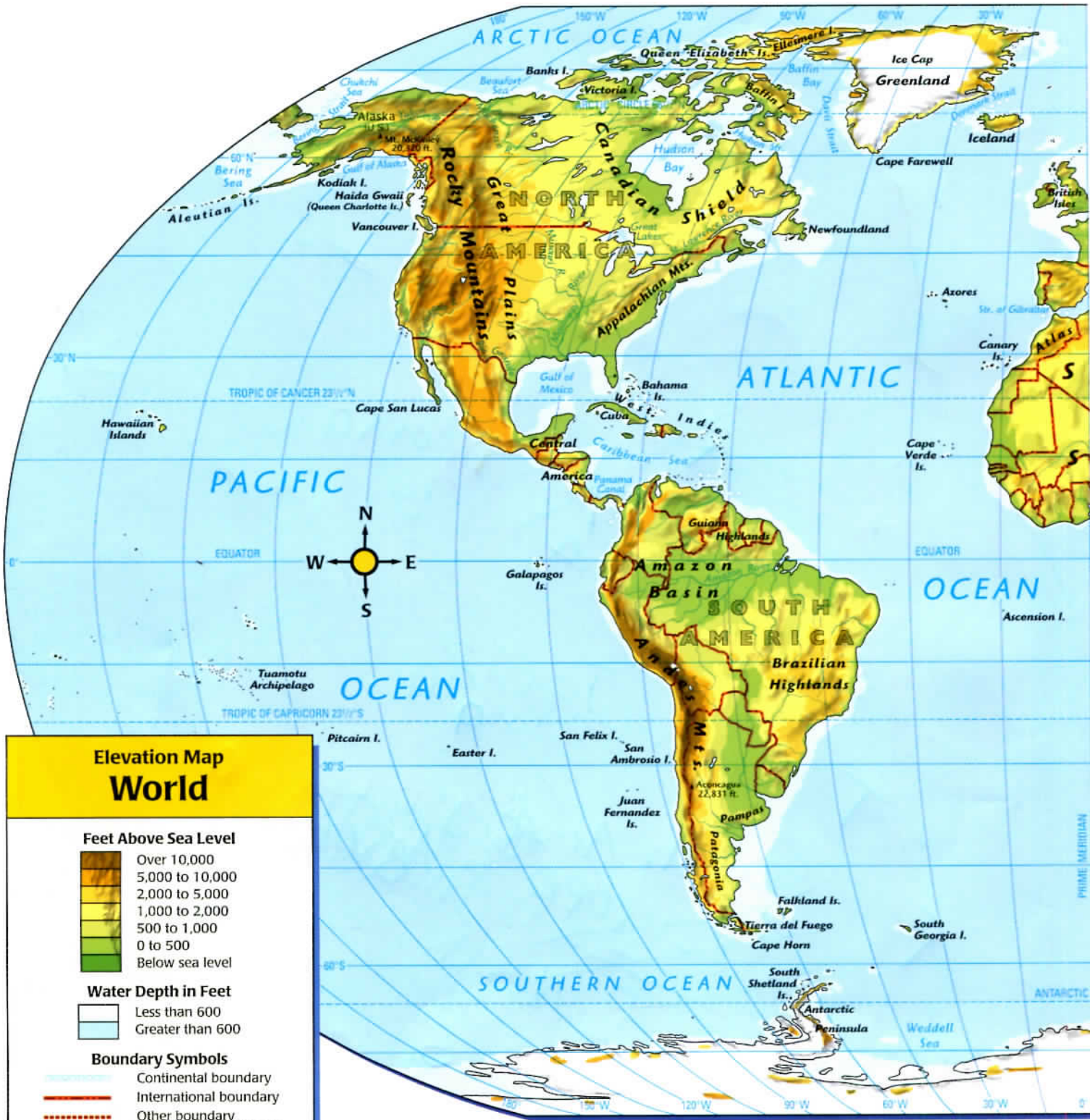


Detailed legend on page 3



Who owns Antarctica?

No one does, although seven nations claim parts of it. The United States and many other countries reject these claims. Since Antarctica is not owned by any country, it is not shown in any of the map's political colors.



Elevation Map World

Feet Above Sea Level

Over 10,000
5,000 to 10,000
2,000 to 5,000
1,000 to 2,000
500 to 1,000
0 to 500
Below sea level

Water Depth in Feet

Less than 600
Greater than 600

Boundary Symbols

- Continental boundary
- International boundary
- Other boundary (disputed or undefined)

Scale at Equator

0 1000 2000 miles

1 inch stands for 1595 miles

Detailed legend on page 4



Can rivers flow up?

If *up* means "up the map" or "north," the answer is yes. Rivers can flow in any compass direction, as long as it is downhill. You can use an elevation map's colors to tell which direction a river flows.

Focus on Land Cover

- Land cover maps show the most widespread material on the earth's surface.
- Most land is covered with plants. This includes crops planted by people as well as natural vegetation.
- Icy glaciers cover areas that are very cold. Deserts with little or no vegetation cover areas that are very dry.



A Cropland Large areas that are mainly covered with crops may also include roads, small livestock farms, woodlots, and human settlements of any size.



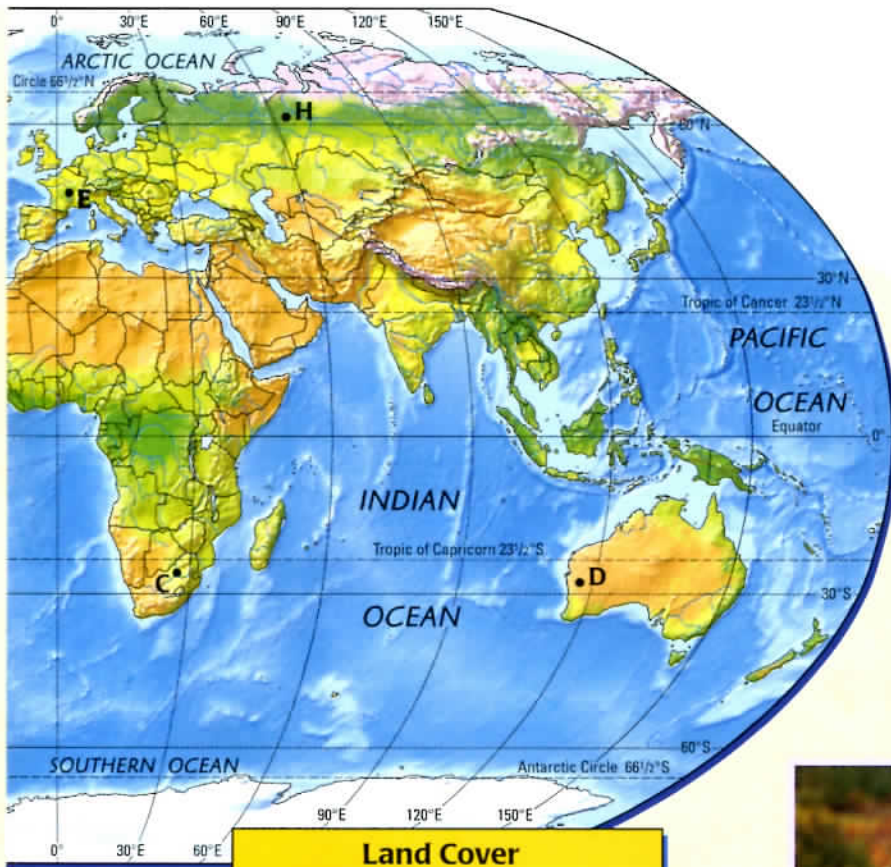
B Tropical rain forest Hot, wet regions near the Equator have broadleaf forests that are green all year. These forests are thick with large trees and other plants.



C Grassland Vast areas mainly covered with grass are often used as grazing land. Some grasslands also have scattered trees or shrubs.



D Semi-desert and desert Dry areas may be covered with shrubs or cactus. The driest areas have little or no vegetation of any kind.



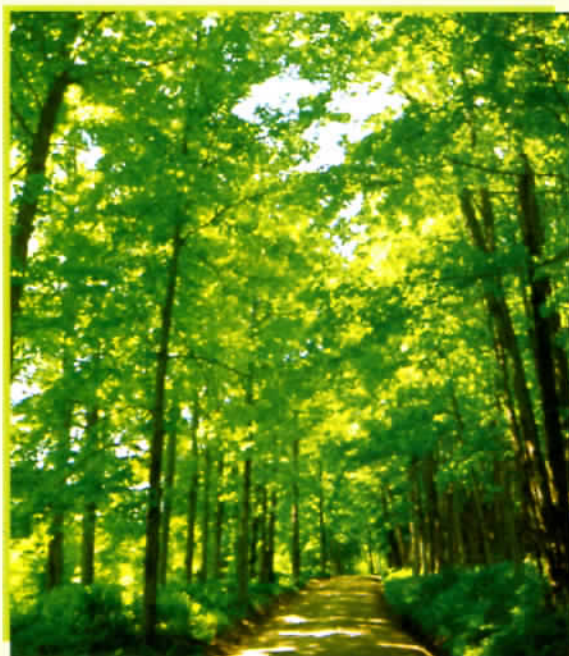
Land Cover			
Cropland	Grassland	Tundra	Glacier
Semi-desert & desert	Tropical rain forest	Broadleaf forest	Needleleaf forest



F Glacier Continental and mountain glaciers form near the North and South Poles and on high mountains. They cover land with ice for hundreds or thousands of years.



G Tundra Only short, hardy plants grow in cold regions found at high latitudes and high elevations.



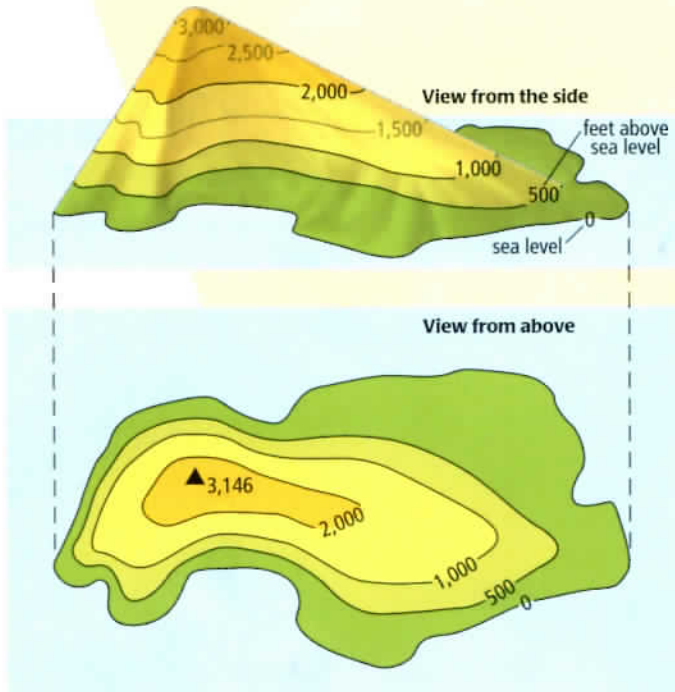
E Broadleaf forest Broadleaf trees in cool and cold climates lose their leaves each fall. On the map, this category also includes forests that are a mixture of broadleaf and needleleaf trees.



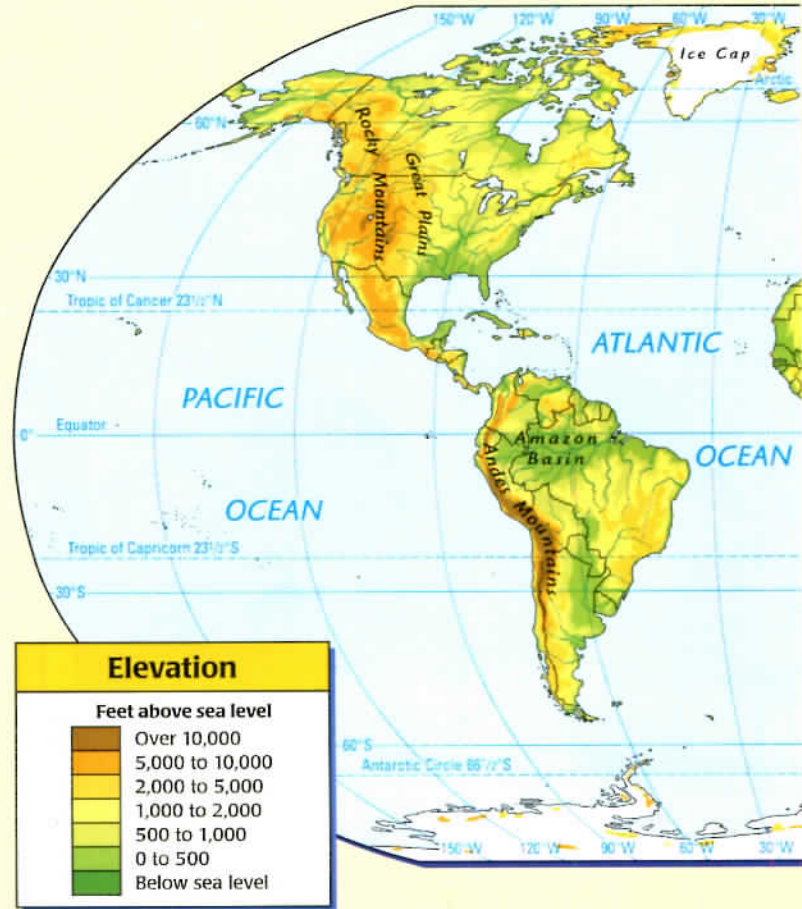
H Needleleaf forest Most needleleaf trees are evergreen, such as pine, spruce, and fir trees. But some are deciduous.

Focus on Elevation and Landforms

- *Elevation* is distance above sea level. Water flows from higher elevations down to the sea.
- *Landforms* are natural features of the land. Most landforms are shaped by flowing water.
- Many landforms have distinctive shapes and elevation patterns that can be seen on cross sections and elevation maps.



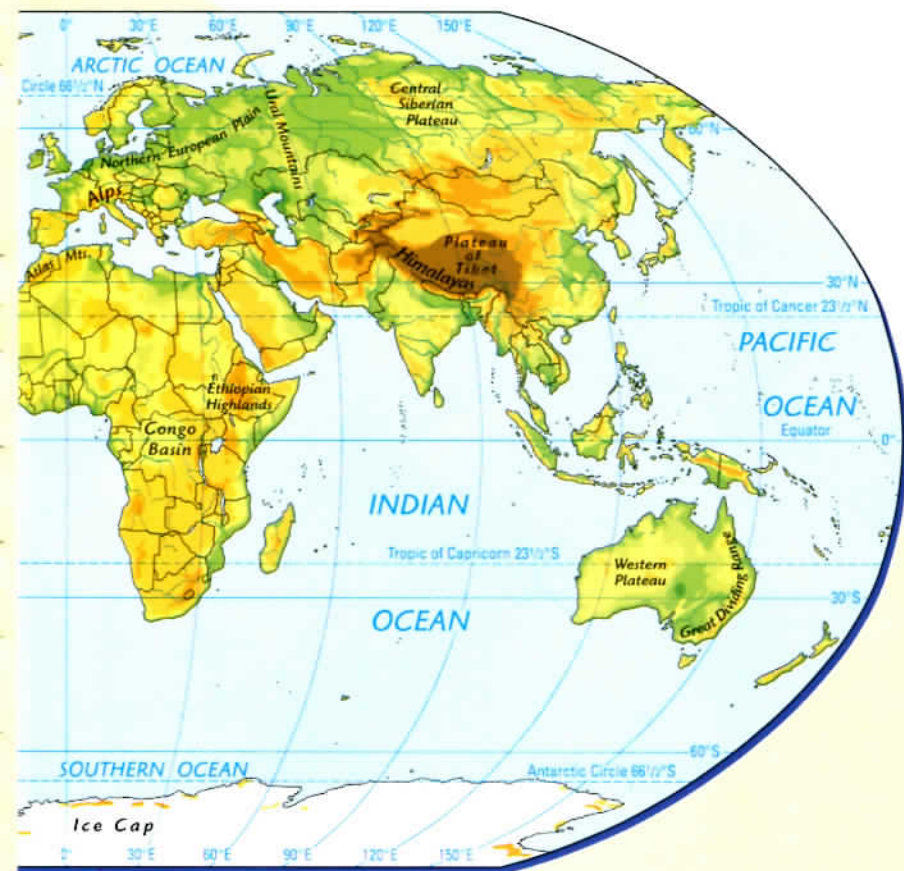
Colors on elevation maps stand for different distances above sea level. These two views show the same island. The view from above is able to show both the island's height and its shape using color alone.



Hills Hills rise to higher elevations than the land around them. Most are rounded and not steep. Hilly land may seem lumpy.

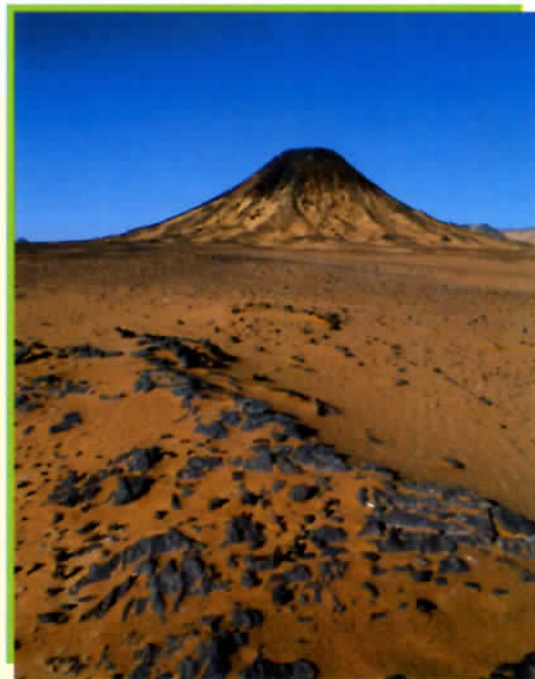


Tablelands Tablelands—also called *plateaus*—are fairly level except where rivers have carved canyons. Tablelands have high elevations, although nearby mountains may be higher.



How Tall Is Tall?

Mount Everest is the world's highest mountain at 29,035 feet above sea level. But Hawaii's Mauna Kea volcano is tallest, rising at least 32,000 feet from the deep sea floor to its summit at 13,796 feet above sea level.



Widely spaced mountains Sometimes single mountains stand alone or far apart from one another, surrounded by lower land. Like this one, many of these mountains are volcanoes.



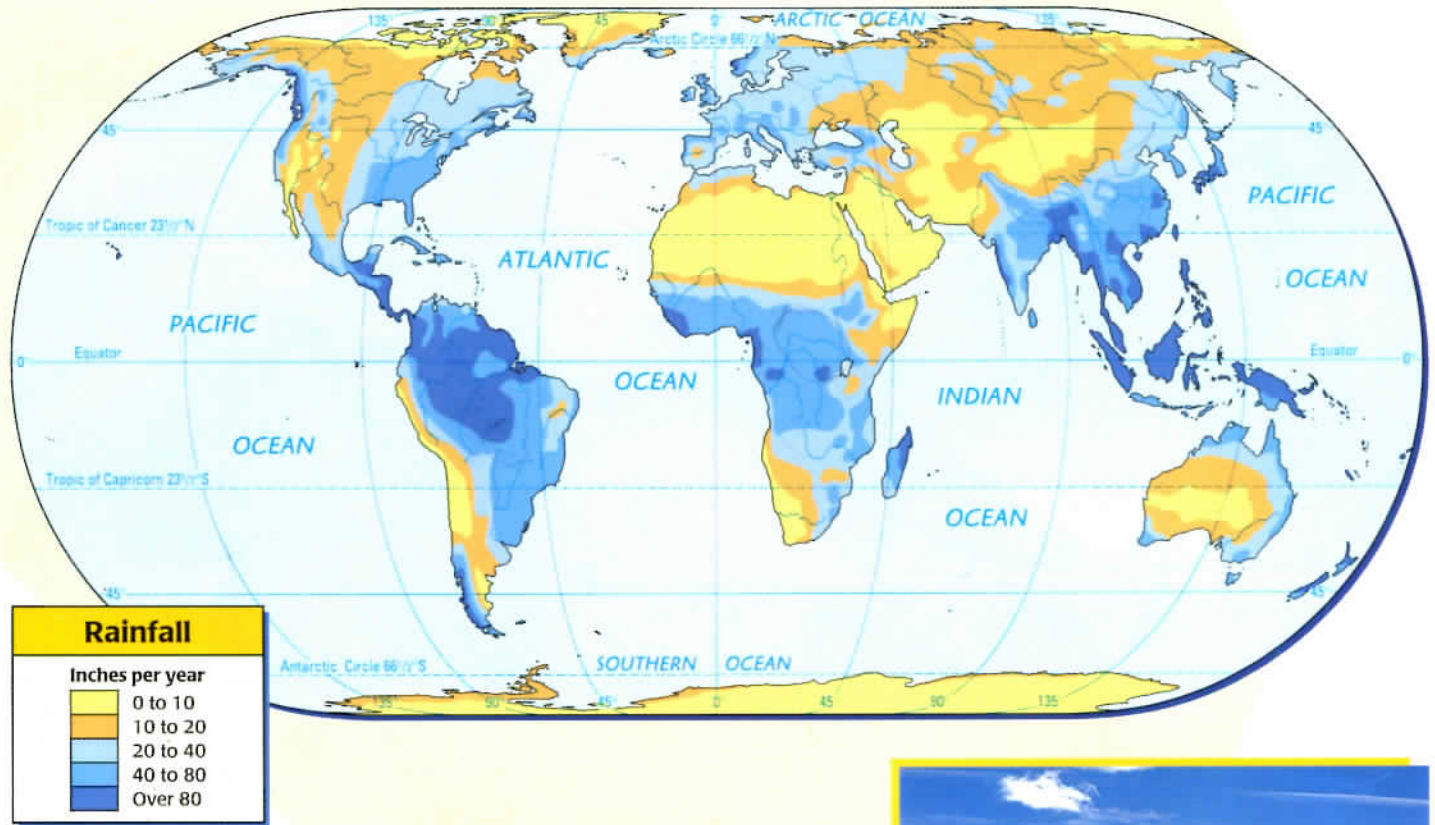
Plains and basins Plains are vast areas that are gently rolling or nearly level, often at low elevations. Basins are level lands surrounded by mountains.



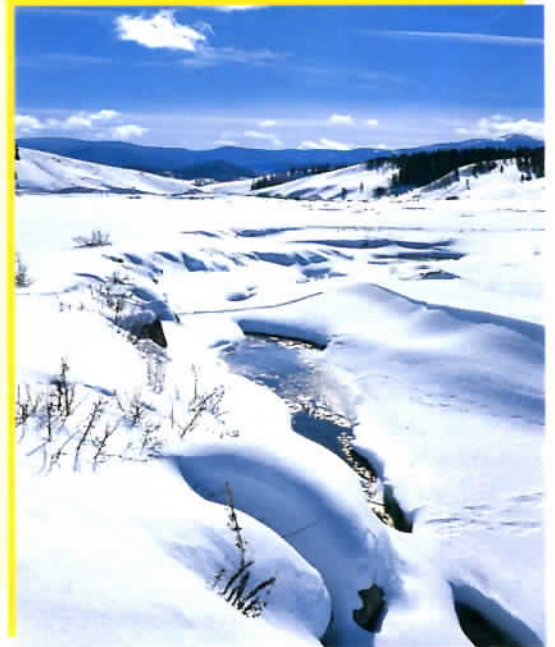
Mountain ranges Mountains in long lines or large groups are called mountain ranges. Their summits are much higher than the lands below.

Focus on Rainfall

- All living things need water. Where rain is scarce, life is limited.
- Rainfall varies greatly from one part of the world to another.
- The pattern of rainfall affects not only what grows but also how and where people live.



Annual rainfall is the average total precipitation for a year.



Geographers count the water from melted snow, hail, and sleet as rainfall.

Focus on Temperature

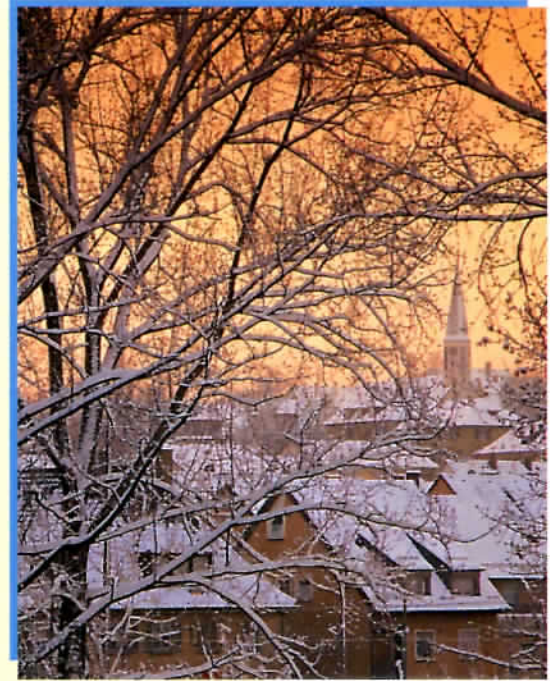
- The longest stretch of days with air temperatures above freezing is a region's *growing season*.
- The growing season is the time of year when crops can grow.
- Some places are hot or cold all year. Others have seasons.

How Cold Was It?

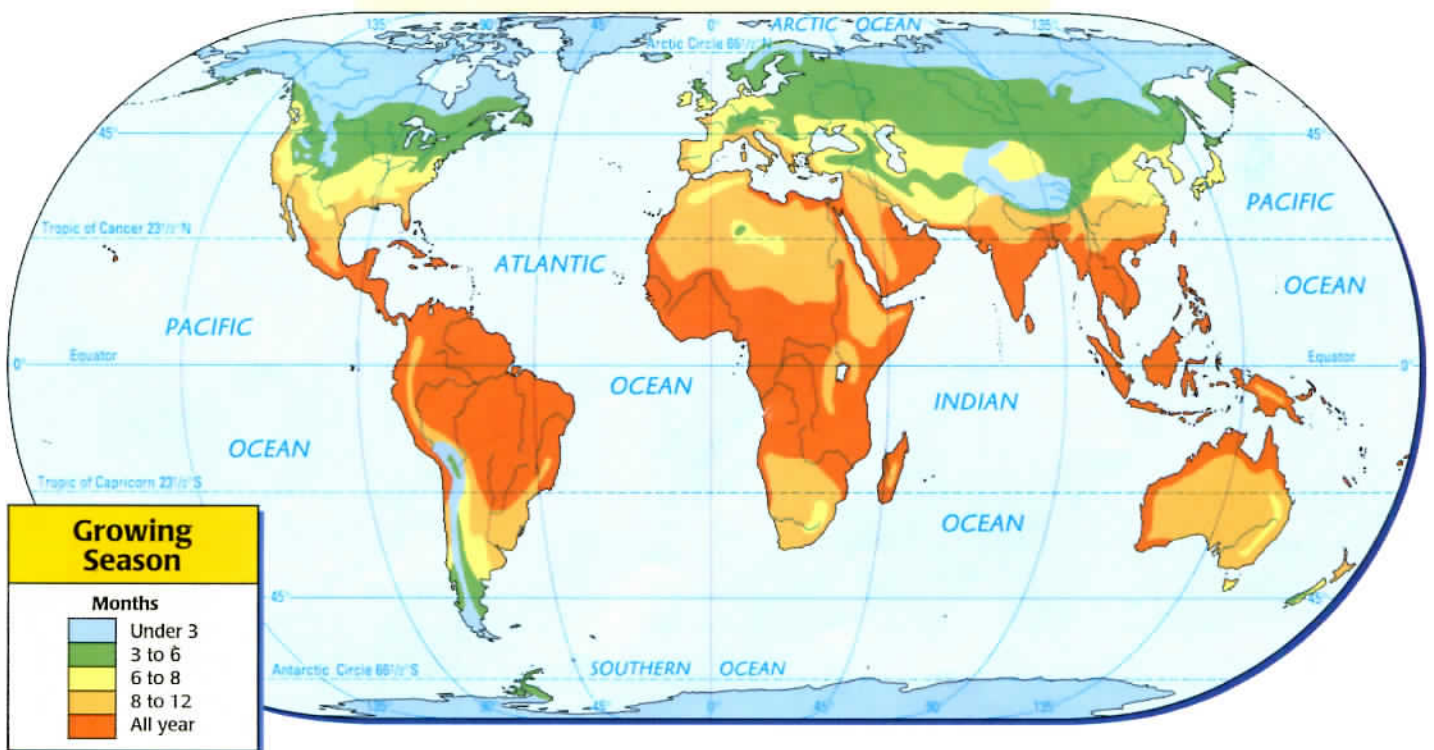
The coldest temperature on record is -128.6°F . It was measured at Vostok, a Russian research station in Antarctica.



In the tropics, winter may be as hot as summer.



Away from the tropics, winter is cold. In many places it is snowy too.

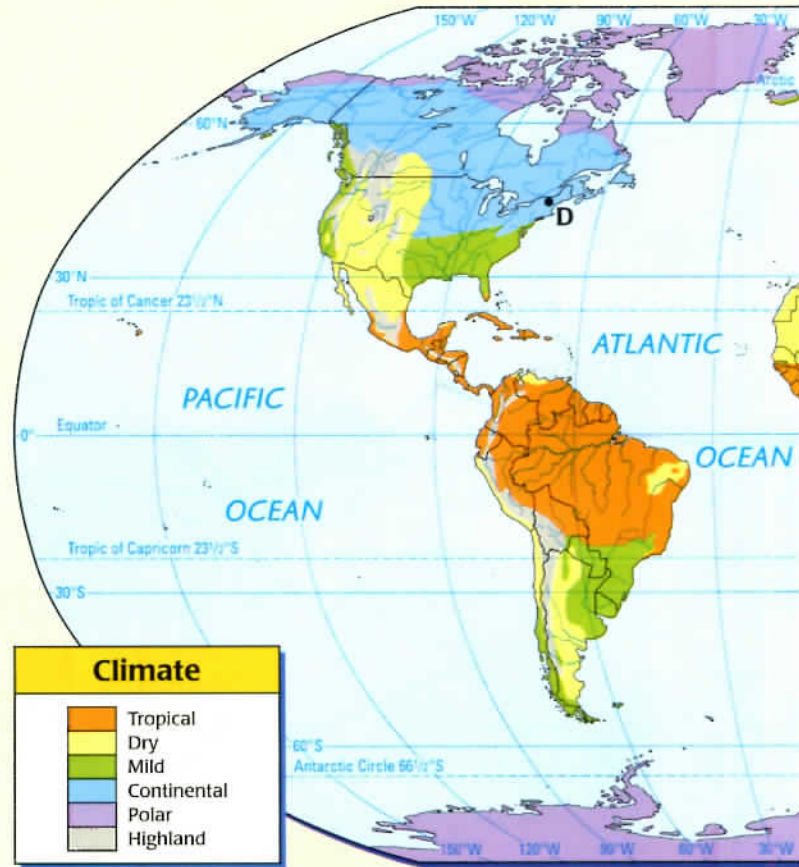


Focus on Climate

- Climate strongly affects where and how people live.
- Rainfall and temperature are the most important elements of climate.
- Latitude, distance from the ocean, and elevation affect a region's climate by affecting rainfall, temperature, and wind.



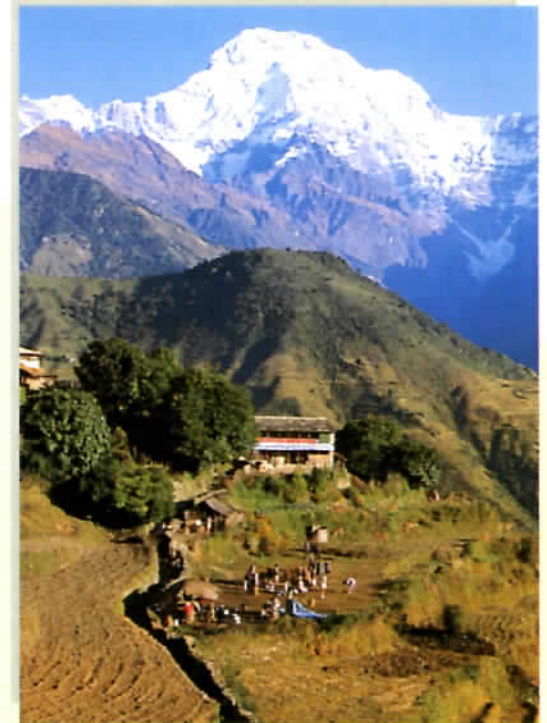
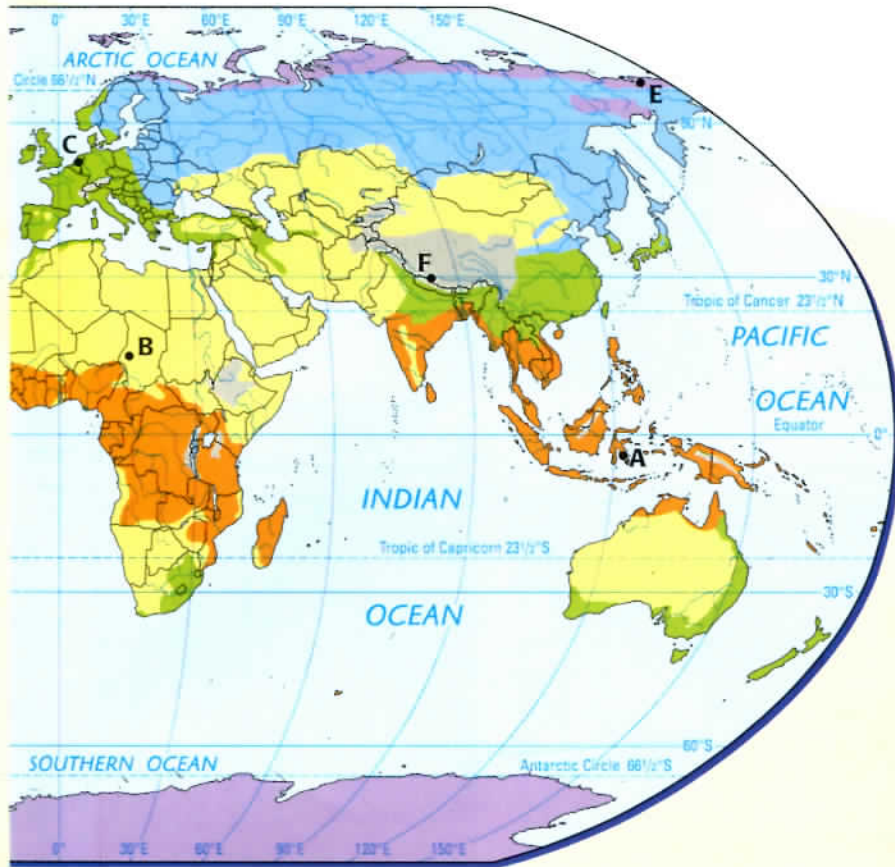
A Tropical climates Regions in this category are hot all year. Some tropical regions also are rainy all year, while others have dry seasons.



B Dry climates Semi-deserts or *steppes* are dry but get occasional rain. True deserts are very dry all year. Dry regions may be warm to hot all year, or may vary with the seasons.



C Mild climates Regions with mild climates have rainy winters that are mild to cool. Summers vary from warm to hot and may be dry or wet.



F Highland climates Local climates vary greatly because of differences in elevation. Distance from the Equator also affects highland climates.



D Continental climates Places in this category have wet summers that are cool in some regions and hot in others. Winters are cold to very cold and snowy to very snowy.



E Polar climates Tundra and ice cap regions have polar climates. They get little snow and even less rain and are cool to very cold all year.

Focus on Land Use

- Providing food is the main way that most land is used.
- Commercial farming, ranching, and most herding produce food that is sold for profit.
- Subsistence farmers and nomadic herders produce food mainly for their own families to eat.
- Urban land use includes trade, manufacturing, financial services, and other activities of cities and suburbs.



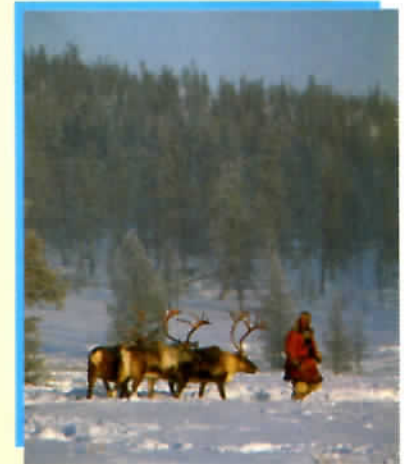
A Commercial farming Modern orchards, vast fields of crops, and dairy farms rely on machinery.



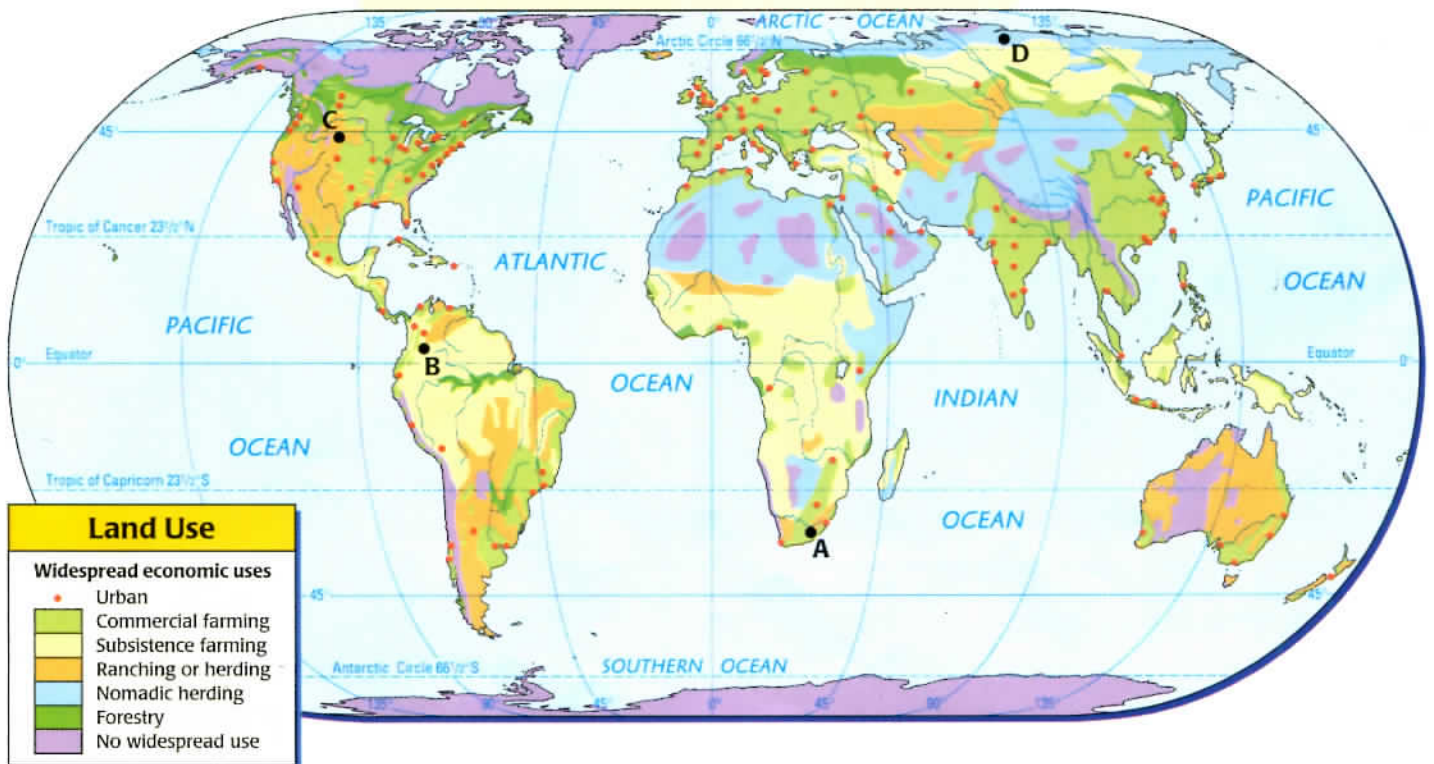
B Subsistence farming Most subsistence farmers have small pieces of land. Few have modern machinery.



C Ranching or herding Ranchers, who are called *herders* in some countries, raise herds of grazing animals.

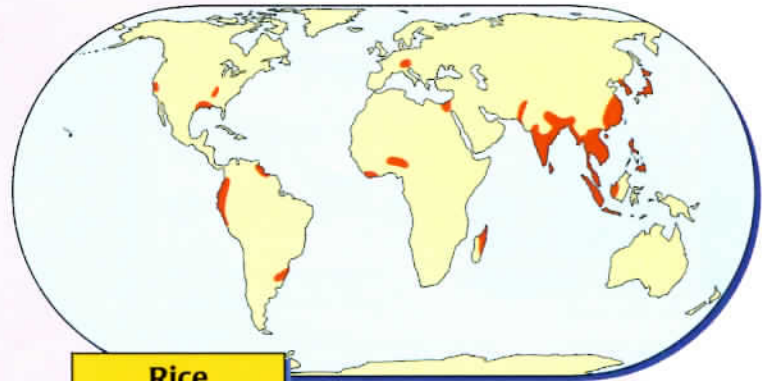


D Nomadic herding In an annual cycle, nomads move with their herds from one seasonal source of food and water to another.



Focus on Food Resources

- Cereal grains, all in the grass family, feed more people than any other kind of food.
- Rice grows only with lots of water. Millet needs little water.
- Wheat is used for an amazing variety of breads and noodles.
- Corn, also known as *maize*, feeds both people and livestock.

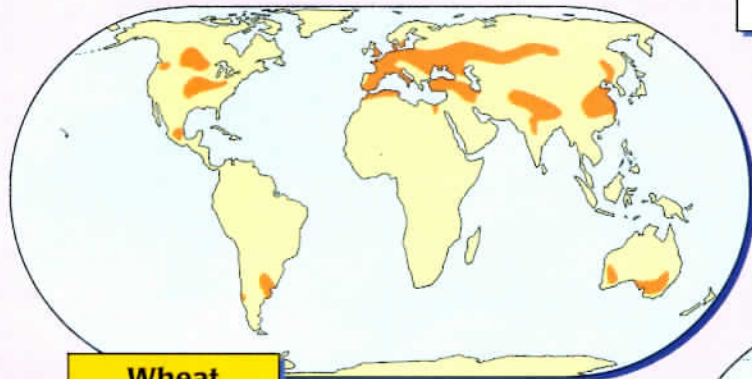


Rice

Main region



Leading Rice Producers

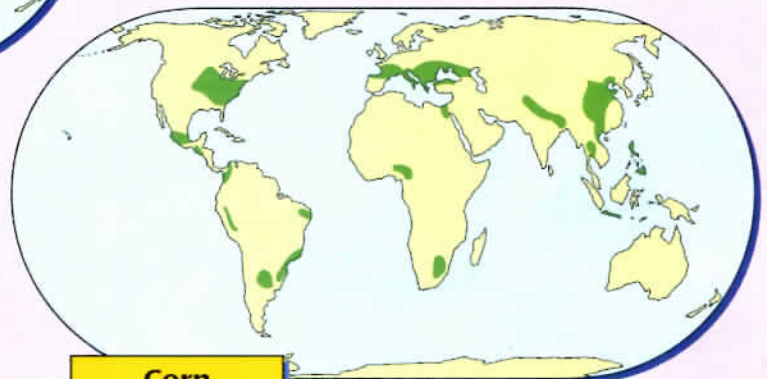


Wheat

Main region



Leading Wheat Producers

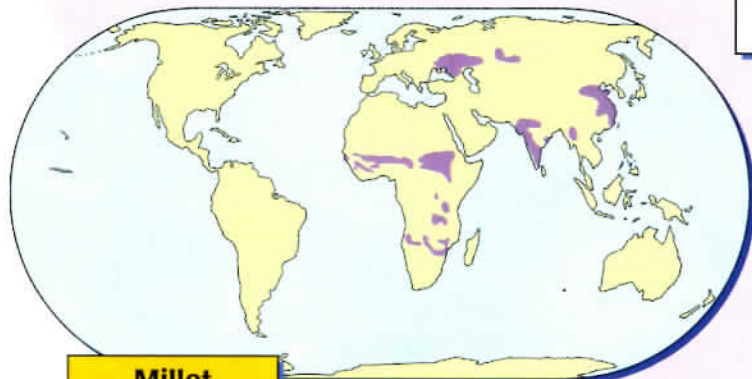


Corn

Main region

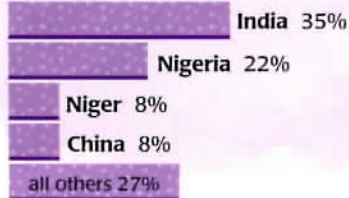


Leading Corn Producers



Millet

Main region



Leading Millet Producers



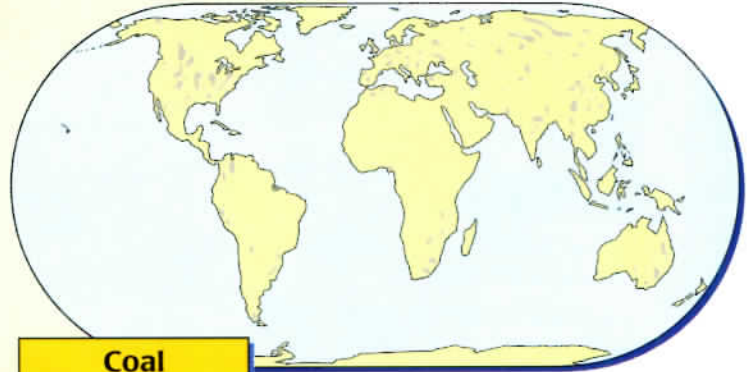
Italy's Wheat Imports

Thailand's Rice Exports

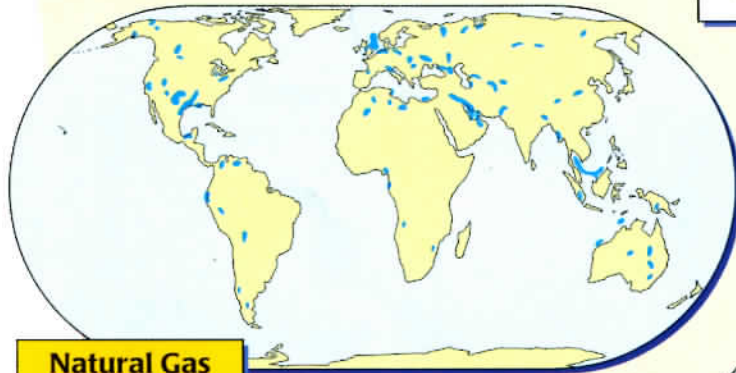


Focus on Energy Resources

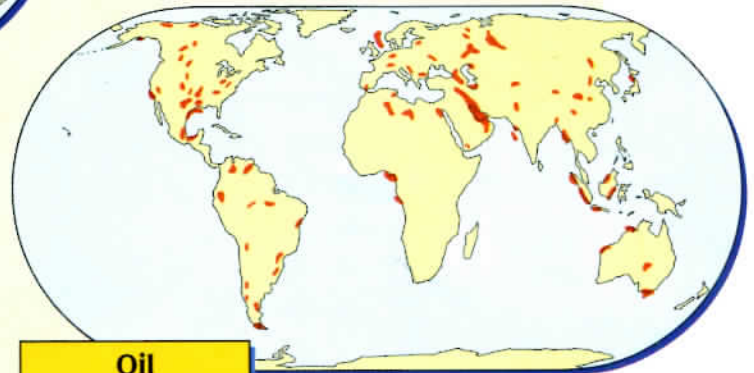
- Coal, oil, natural gas, and uranium fill most of the world's energy needs.
- All four are *consumable*. Once used, they are gone forever.
- Of the four, coal is the most widespread and cheapest to use.
- Since coal, oil, and natural gas all were once ancient plants, they are known as *fossil fuels*.



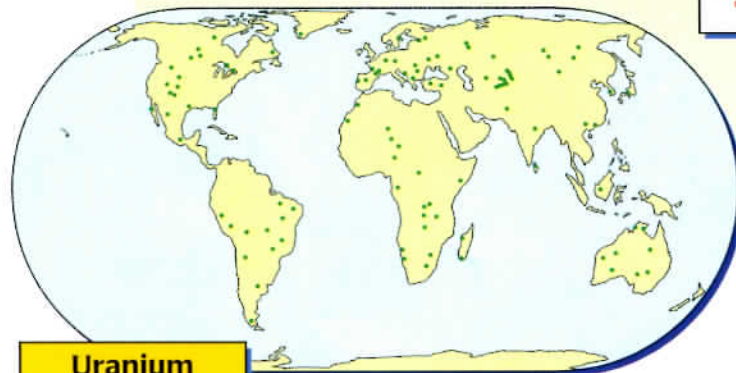
Coal
Major deposit



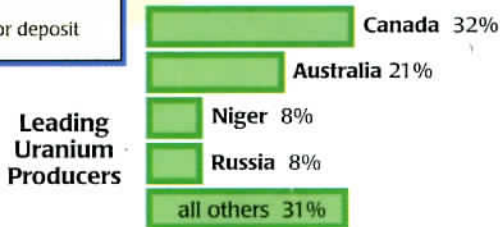
Natural Gas
Major deposit



Oil
Major deposit



Uranium
Major deposit

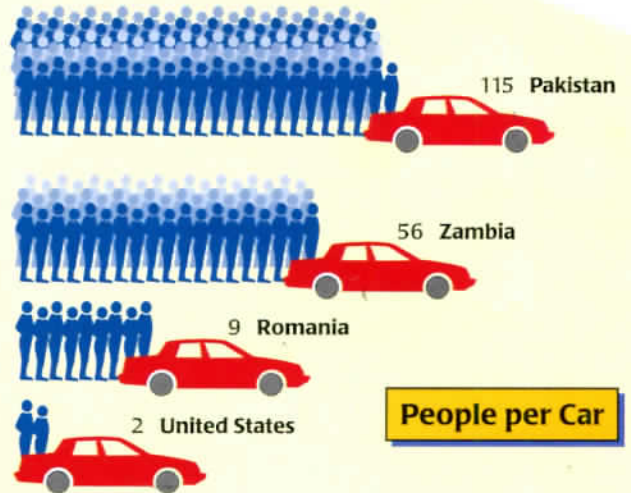


What's the Alternative?

Solar, wind, and water power are *renewable*, meaning they cannot be used up. But they also require just the right location: lots of sun, lots of wind, or a big river.

Focus on Standard of Living

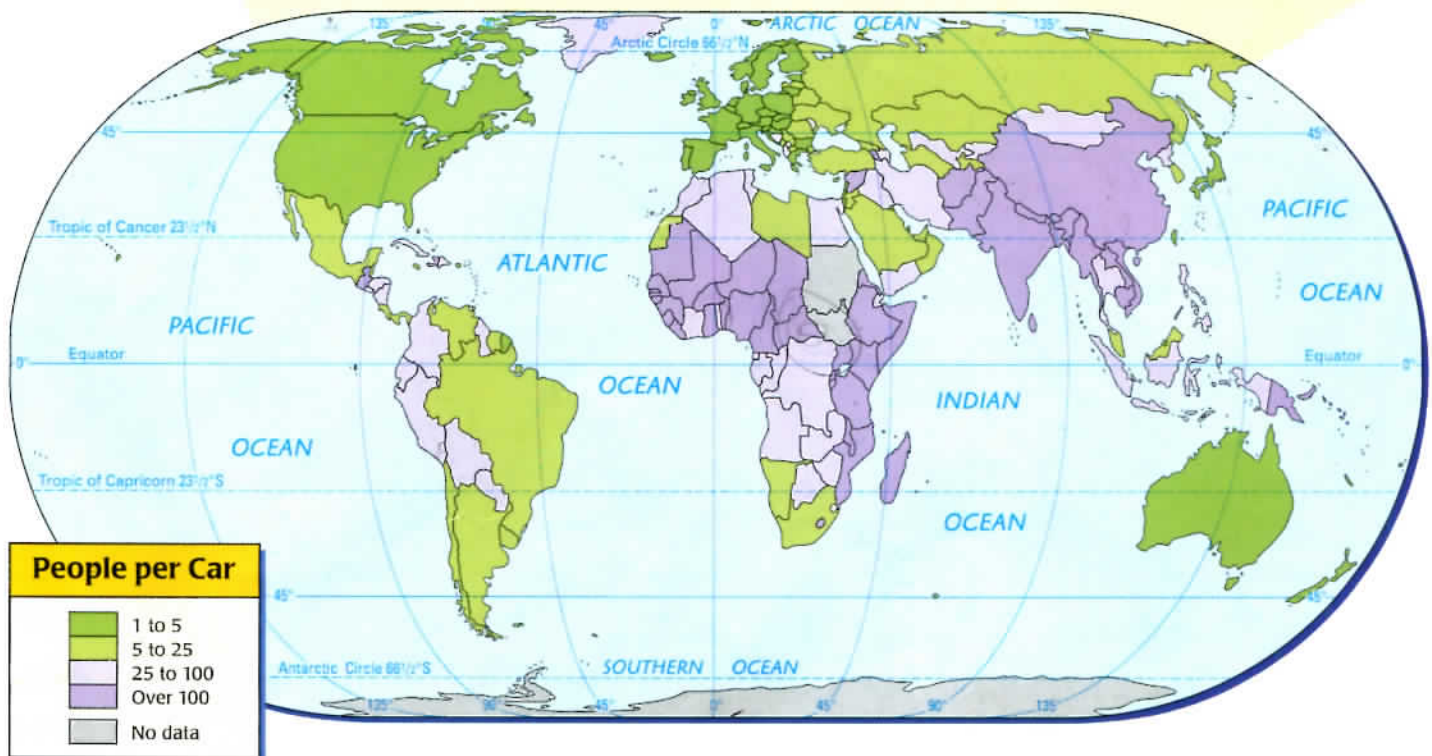
- A country's *standard of living* depends on the level of goods and services available to meet the needs and wants of its people.
- One measure of standard of living compares the number of cars and the number of people.
- The fewer people per car, the higher the country's standard of living.



In prosperous countries, an average family can afford a car. Many families own more than one car.



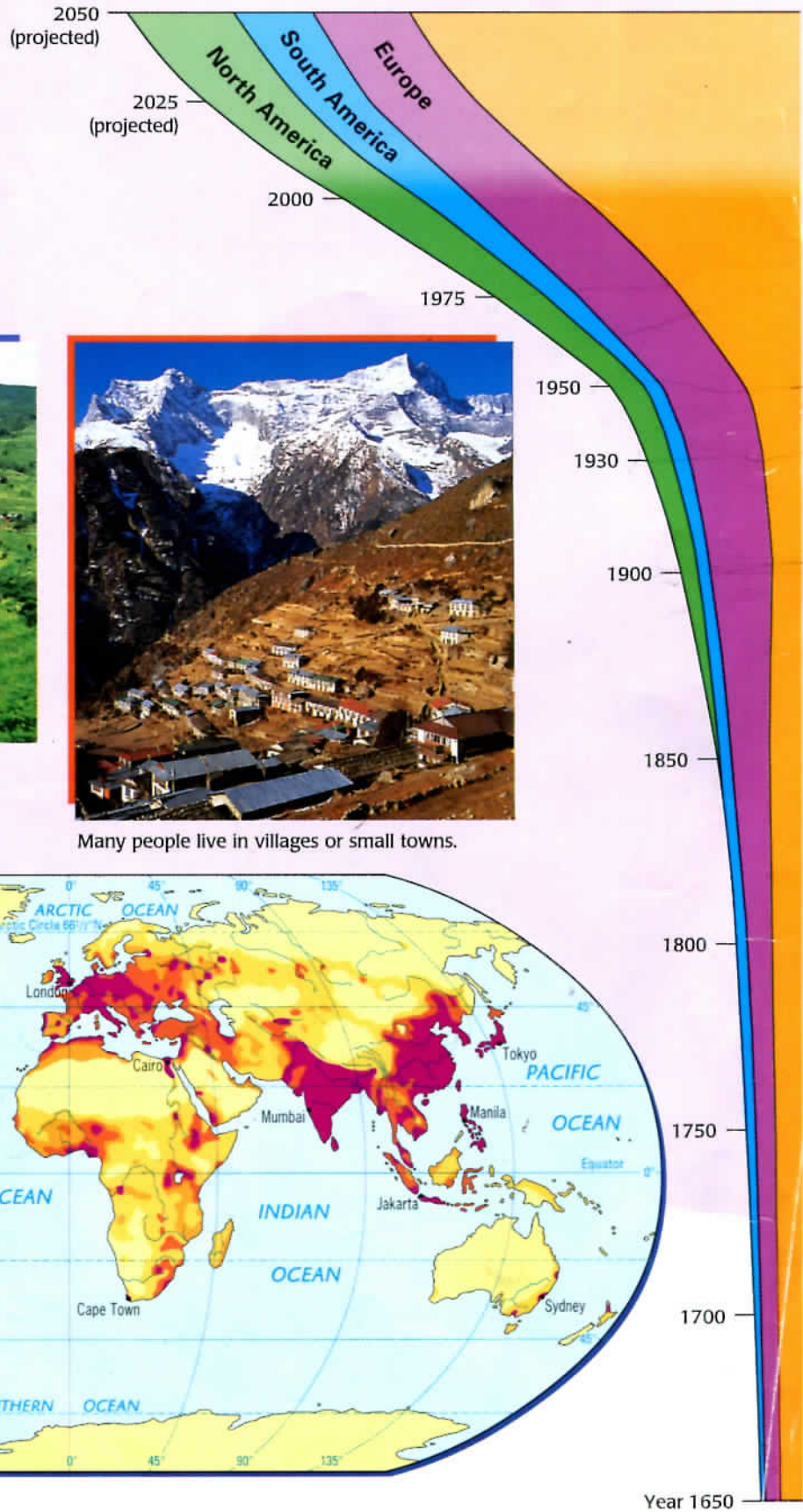
In countries with low standards of living, most families cannot afford a car at all.



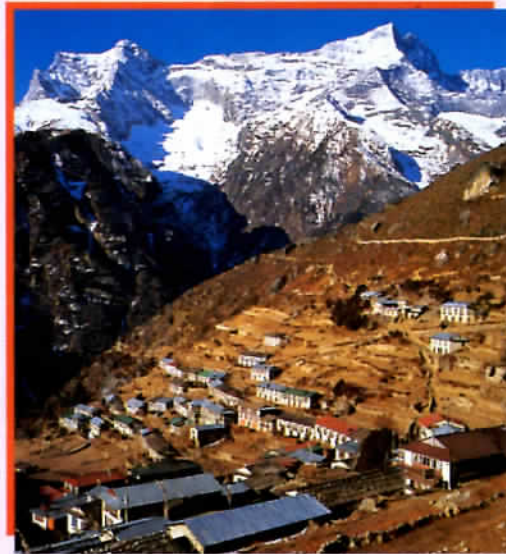
Focus on Population

- The world has about 6.5 billion people—and 8,400 more are born every hour.
- Despite these numbers, only certain regions of the world are densely populated.
- Areas that are very cold or very dry are sparsely populated and likely to remain so.

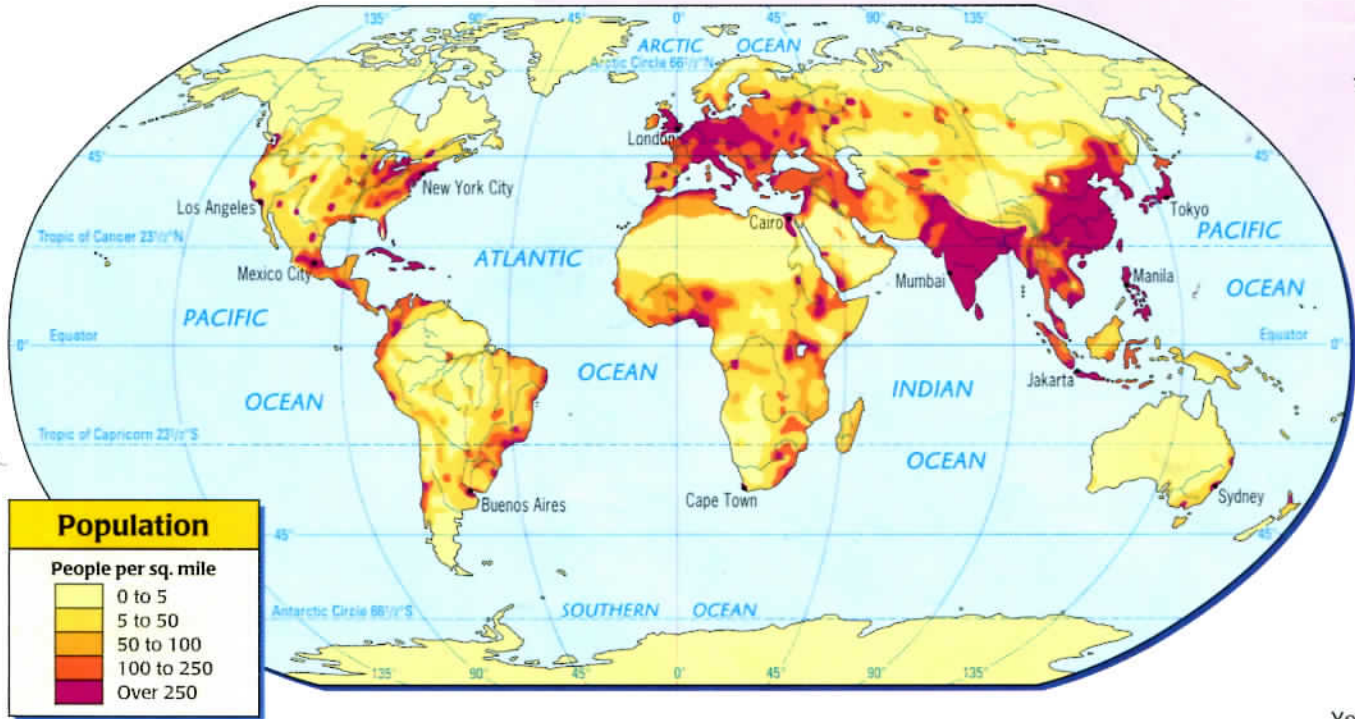
Population Growth, 1650–2050



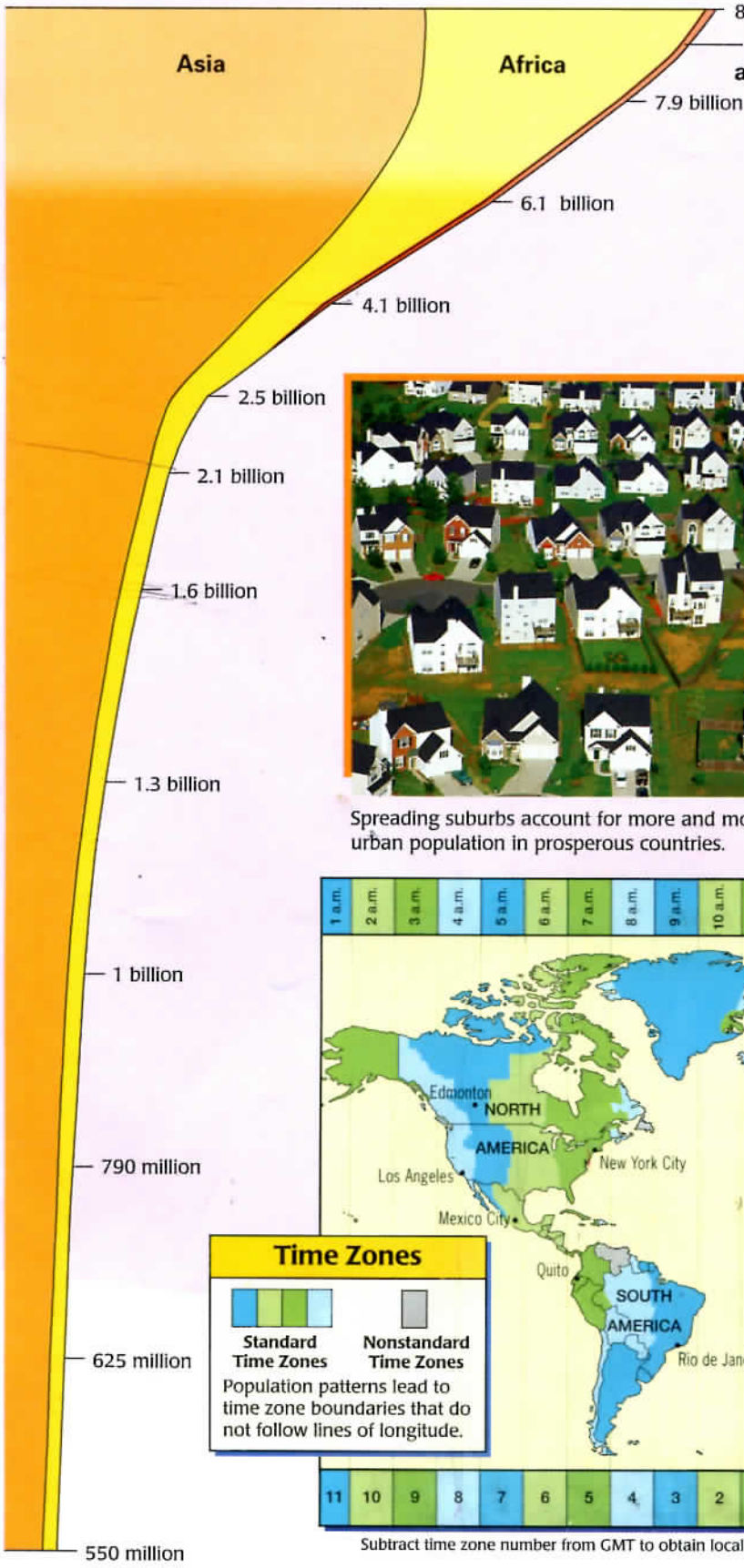
In much of the world, rural areas are sparsely populated.



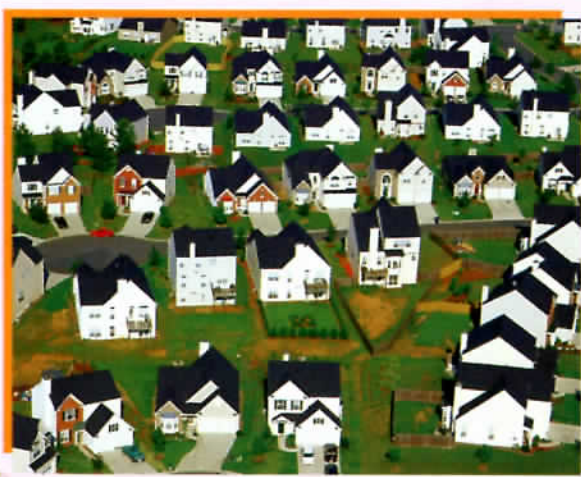
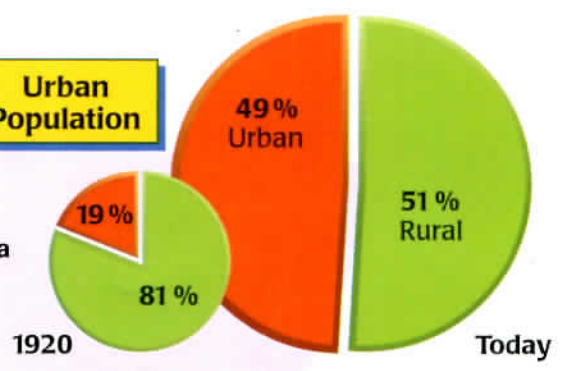
Many people live in villages or small towns.



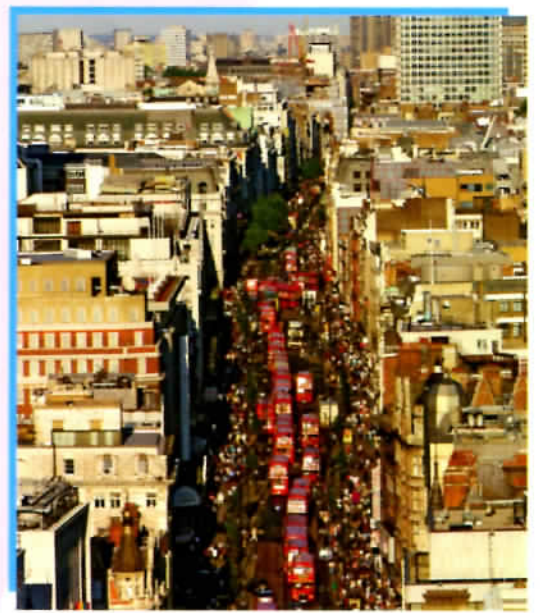
Year 1650



Urban Population



Spreading suburbs account for more and more of the urban population in prosperous countries.

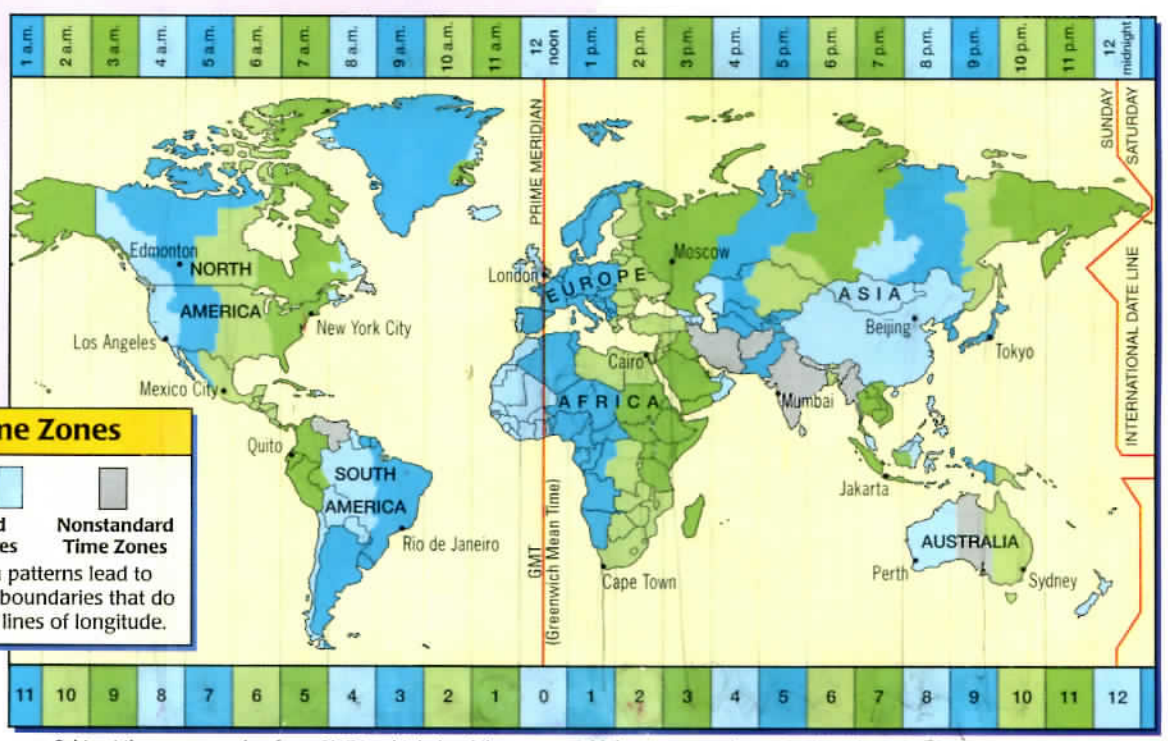


Tall buildings and crowded streets are typical of major cities.

Time Zones

Standard Time Zones	Nonstandard Time Zones

Population patterns lead to time zone boundaries that do not follow lines of longitude.



Subtract time zone number from GMT to obtain local time. Add time zone number to GMT to obtain local time.



Detailed legend on page 3



**Political Map
North America**

Boundary Symbols
 - - - - International boundary

City Symbols
 ● A city's relative size is shown by the size of its symbol and lettering.
 ☆ National capital

Scale

0 250 500 750 1000 miles

1 inch stands for 650 miles

Detailed legend on page 3

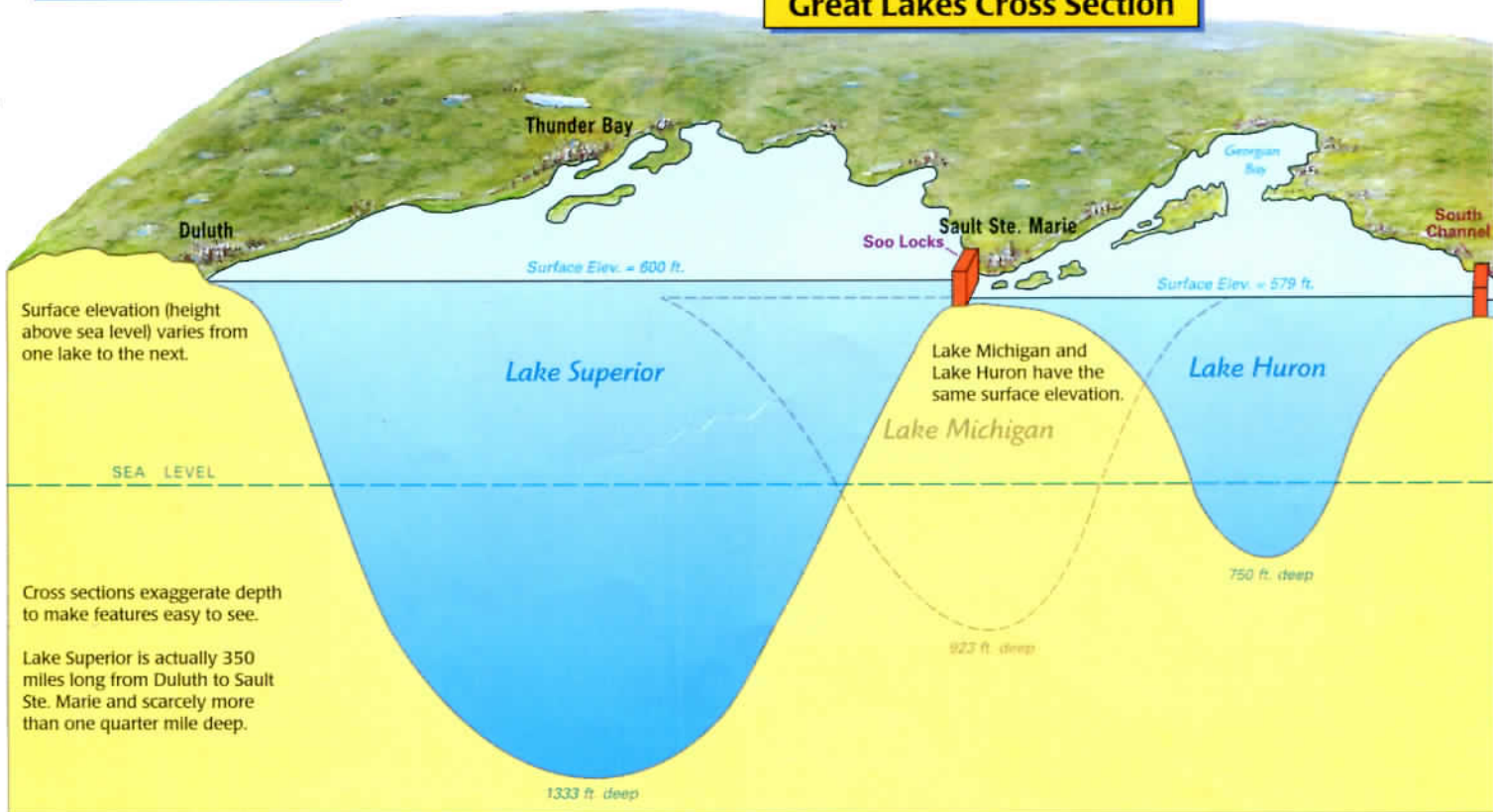


Focus on the Great Lakes



Beyond Chicago's famous skyline, Lake Michigan stretches to the horizon.

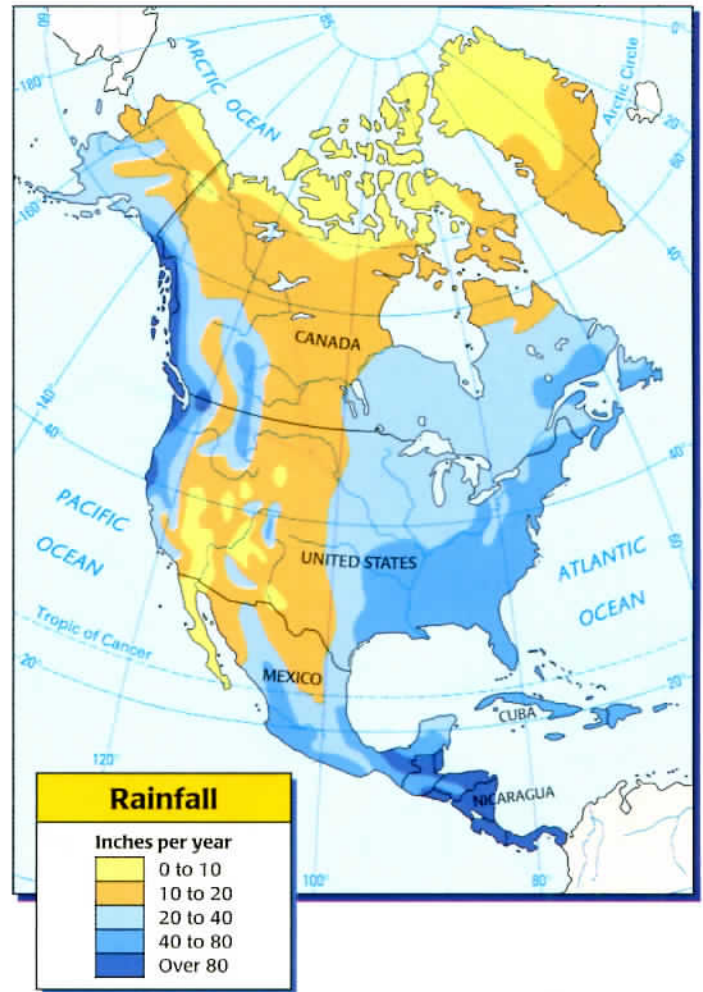
Great Lakes Cross Section



- The five Great Lakes are large enough to be called *inland seas*.
- They connect to form North America's most important inland waterway. The St. Lawrence River links them with the Atlantic Ocean.
- For centuries the Great Lakes have been used for transporting raw materials and finished goods.

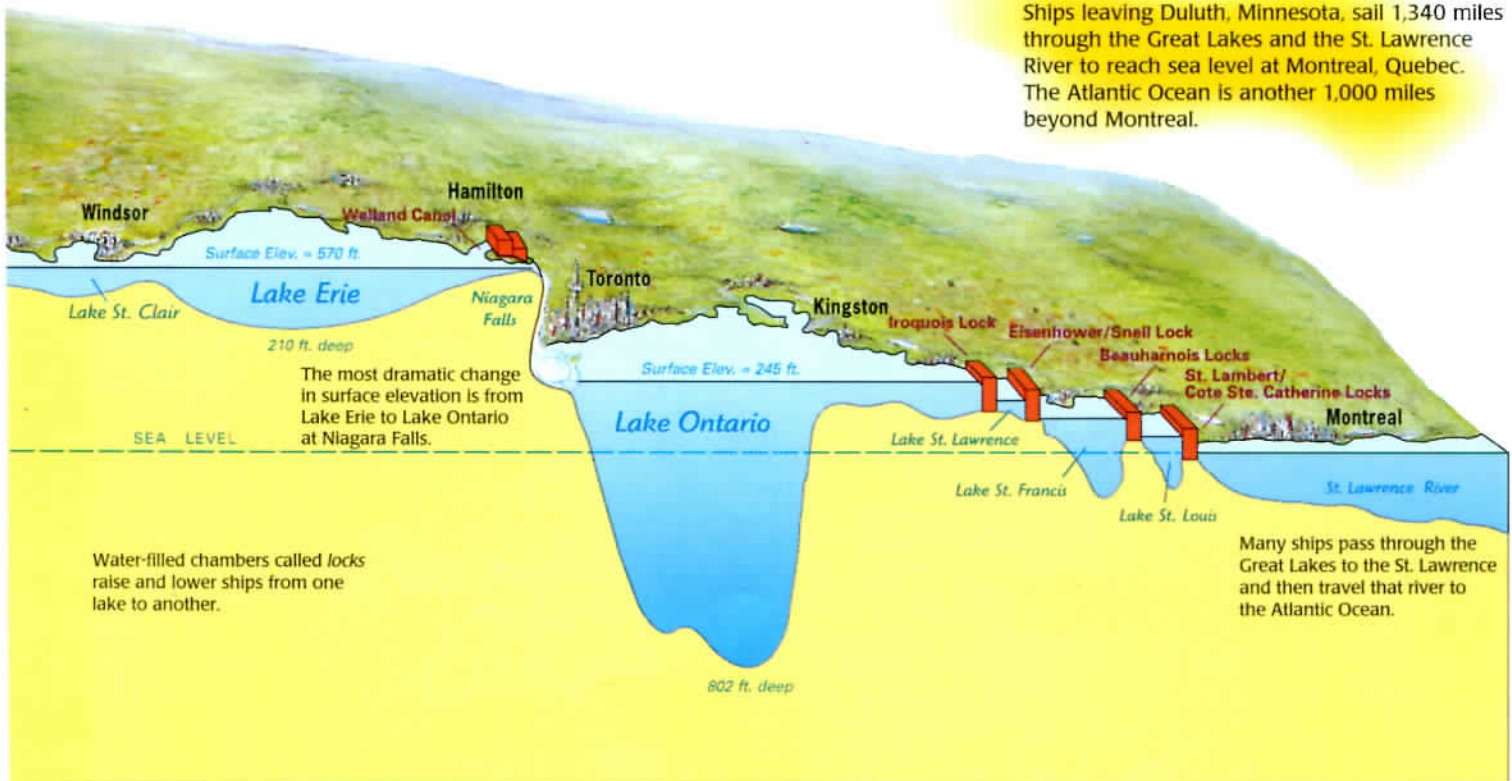


Great Lakes Region



Are We There Yet?

Ships leaving Duluth, Minnesota, sail 1,340 miles through the Great Lakes and the St. Lawrence River to reach sea level at Montreal, Quebec. The Atlantic Ocean is another 1,000 miles beyond Montreal.



The most dramatic change in surface elevation is from Lake Erie to Lake Ontario at Niagara Falls.

Water-filled chambers called *locks* raise and lower ships from one lake to another.

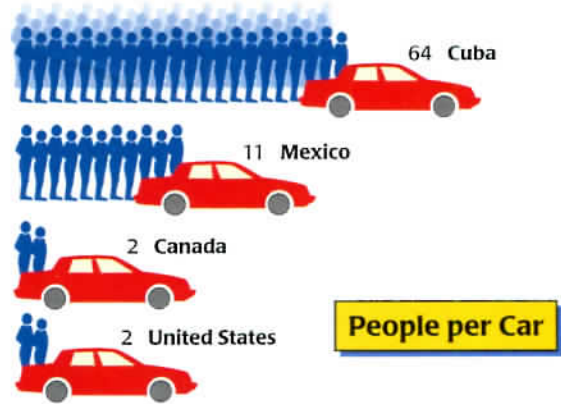
Many ships pass through the Great Lakes to the St. Lawrence and then travel that river to the Atlantic Ocean.



Large areas of North America are used as grazing land for herds of cattle.

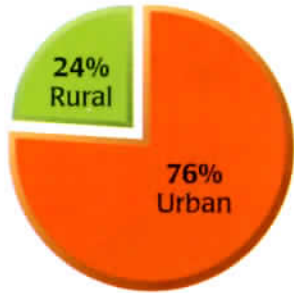
What's Green About That?

Most of Greenland is icy white, not green. The glacier that covers most of the island is as vast as the Gulf of Mexico and contains about the same amount of water.

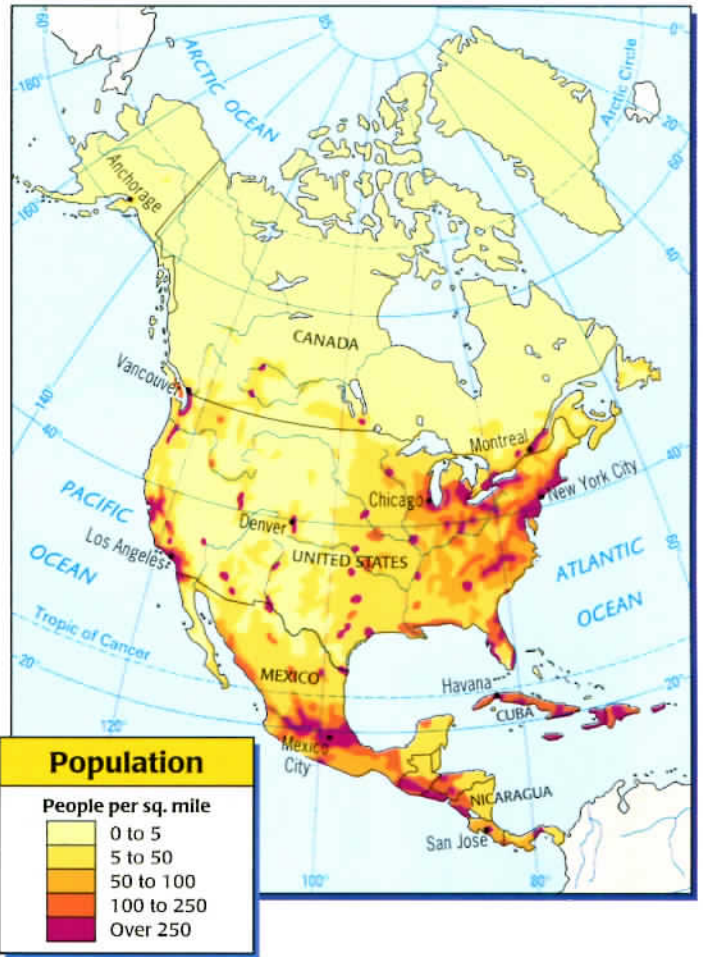




The ancestors of most North Americans came from Europe. But people here represent every other part of the world too.



Mexico's Urban Population

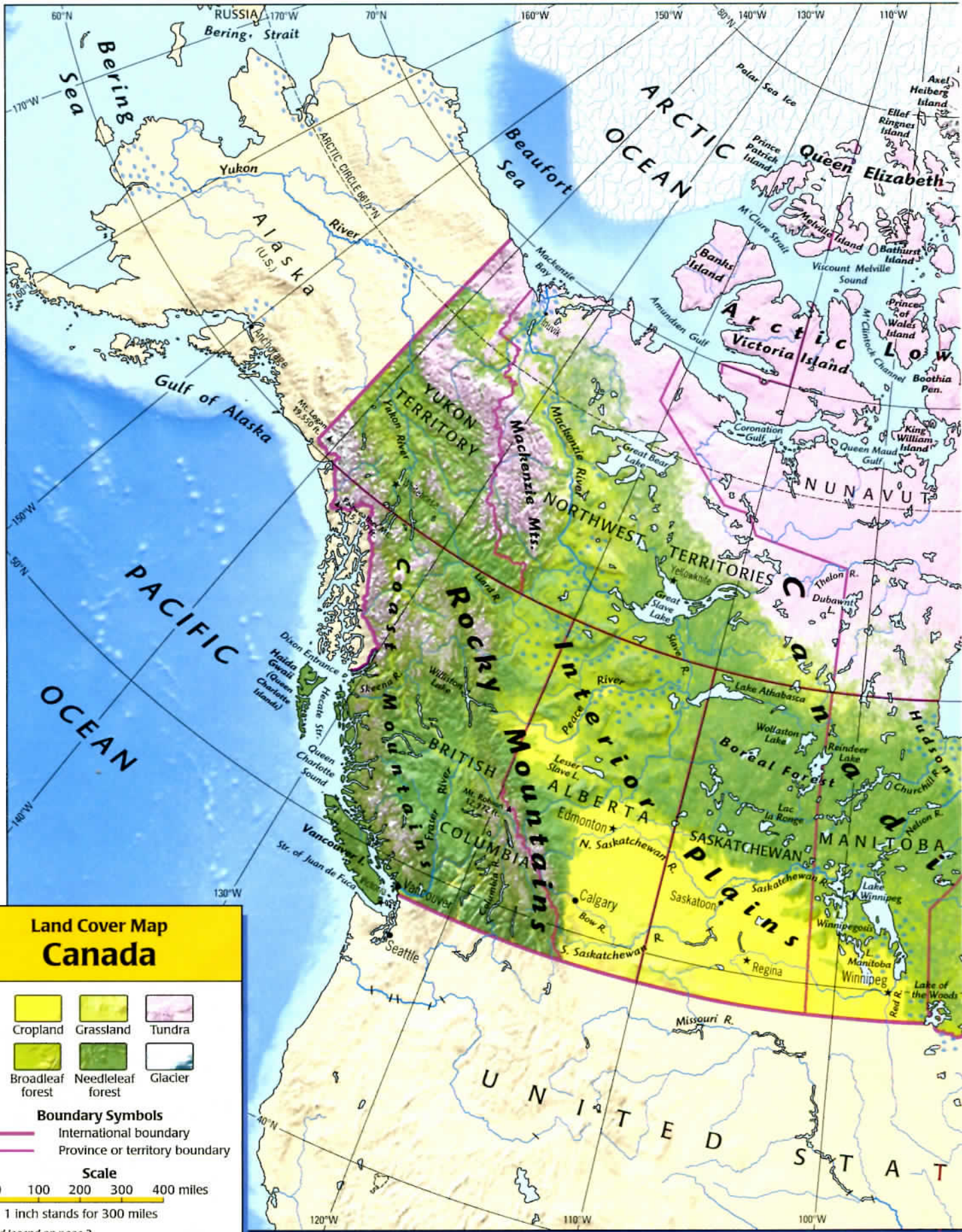


Focus on Neighboring Countries



- Canada, the United States, and Mexico are by far the largest countries in North America.
- These neighbors share borders that are thousands of miles long.
- Both Canada and Mexico are major trading partners with the United States.









**Political Map
Canada**

Boundary Symbols

- International boundary
- Province or territory boundary

City Symbols

- A city's relative size is shown by the size of its symbol and lettering.
- National capital
- ★ Province or territory capital

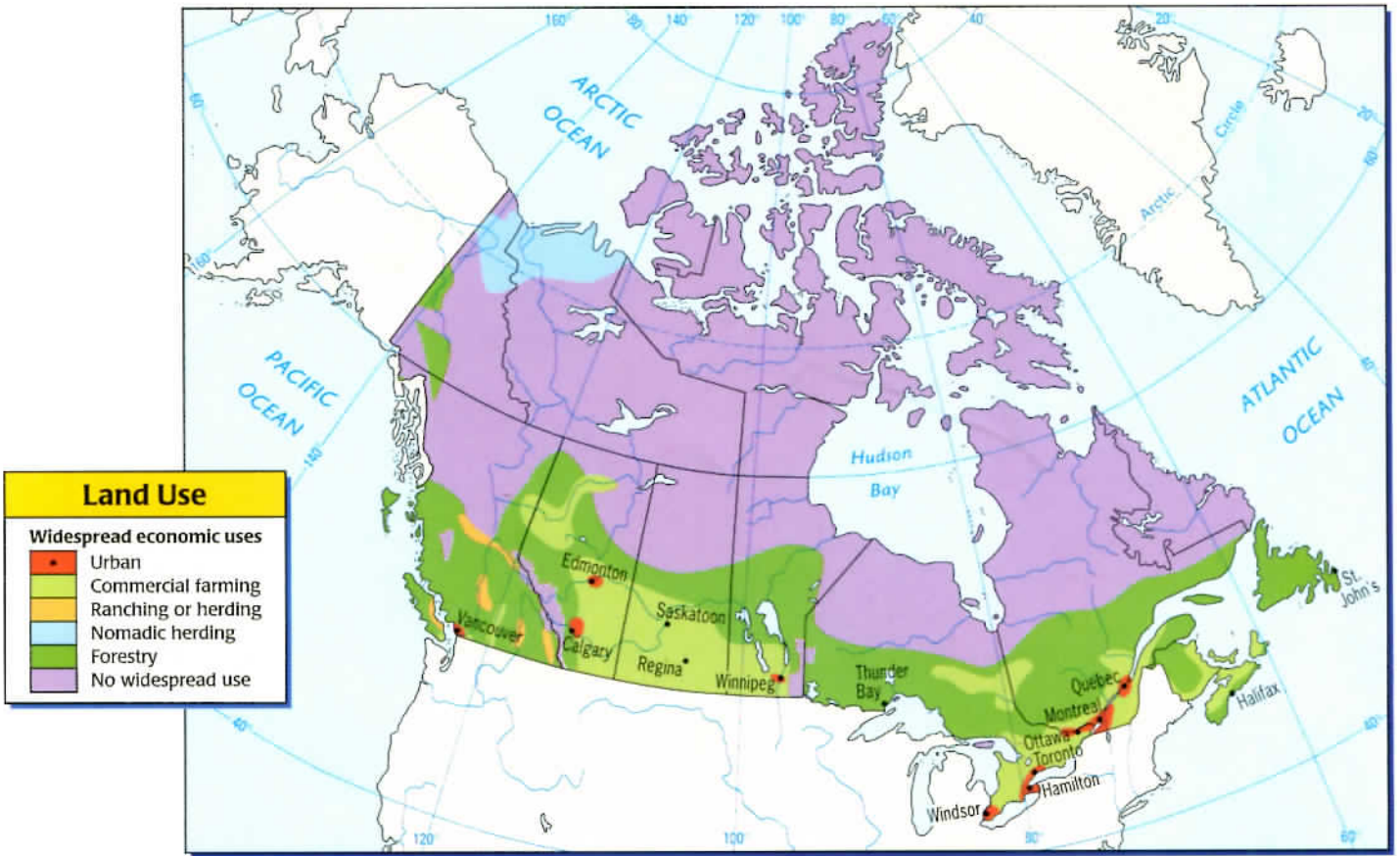
Scale

0 100 200 300 400 miles

1 inch stands for 300 miles

Detailed legend on page 3

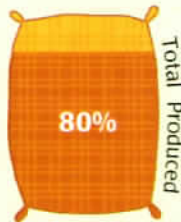




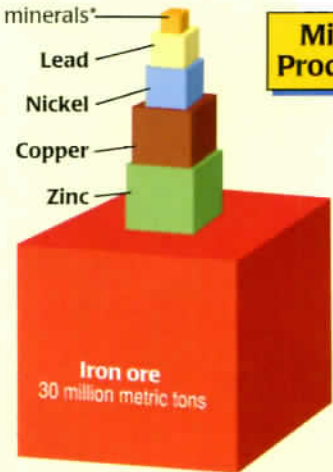
Focus on Canada's Resources

- Natural resources—minerals, forests, rich soils—are keys to the Canadian economy.
- Each year Canada mines more than 15 times as much iron ore as all other minerals combined.
- Nearly a third of its forest products comes from British Columbia.

Wheat Exports

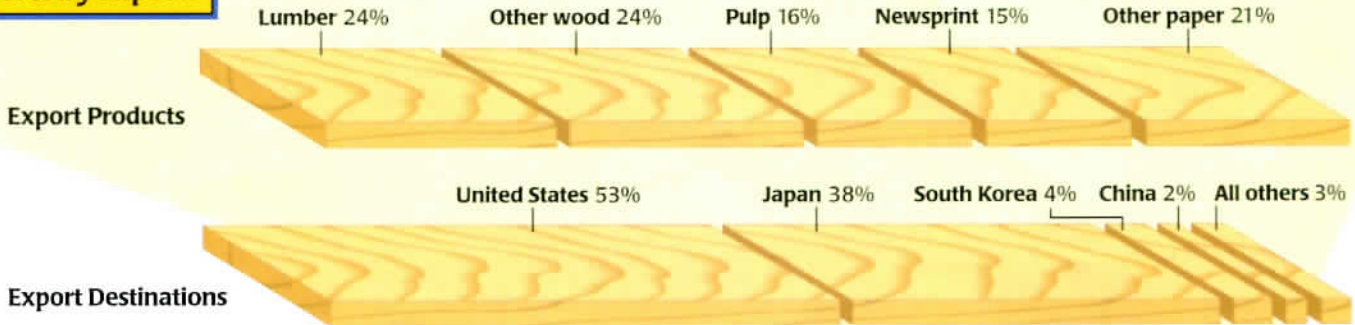


Mineral Production



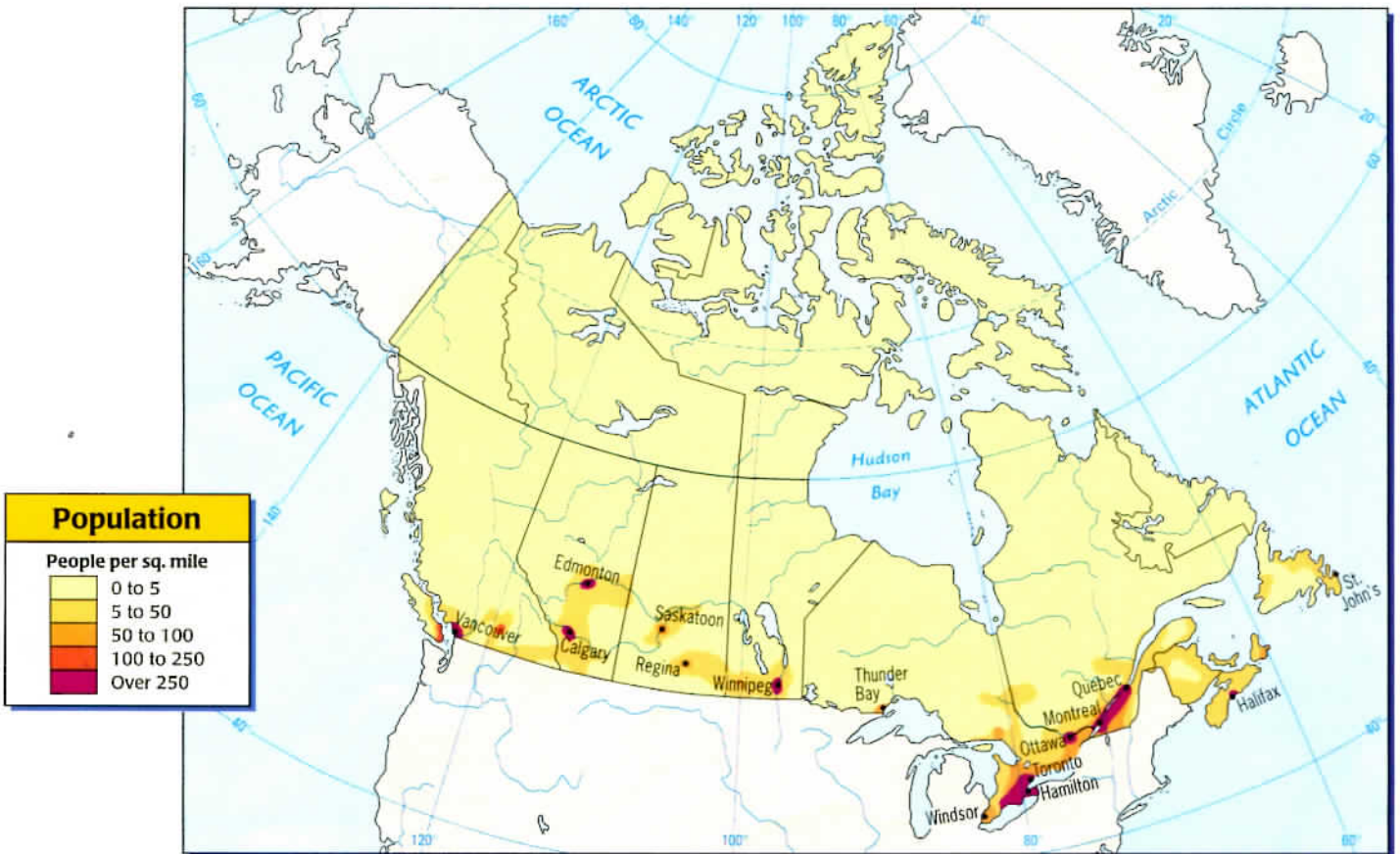
*Uranium, Molybdenum, Silver, Gold

Forestry Exports





Toronto's landmarks include the CN Tower and the SkyDome. Can you find the CN Tower in the cross section of the Great Lakes on pages 28–29?







**Land Cover Map
United States**

Cropland	Grassland	Tundra	Glacier
Semi-desert & desert	Tropical rain forest	Broadleaf forest	Needleleaf forest

Boundary Symbols

- International boundary
- State boundary

Scale

0 100 200 300 miles

1 inch stands for 200 miles

Detailed legend on page 3





**Political Map
United States**

Boundary Symbols

- International boundary
- State boundary

City Symbols

- Chicago ● A city's relative size is shown by the size of its symbol and lettering.
- Anchorage ●
- Boulder ●
- Washington, D.C. ⊕ Country capital
- Honolulu ★ State capital

Scale

0 100 200 300 miles

1 inch stands for 200 miles

Detailed legend on page 3





**Elevation Map
United States**

Feet Above Sea Level

- Over 10,000
- 5,000 to 10,000
- 2,000 to 5,000
- 1,000 to 2,000
- 500 to 1,000
- 0 to 500
- Below sea level

Water Depth in Feet

- Less than 600
- Greater than 600

Boundary Symbols

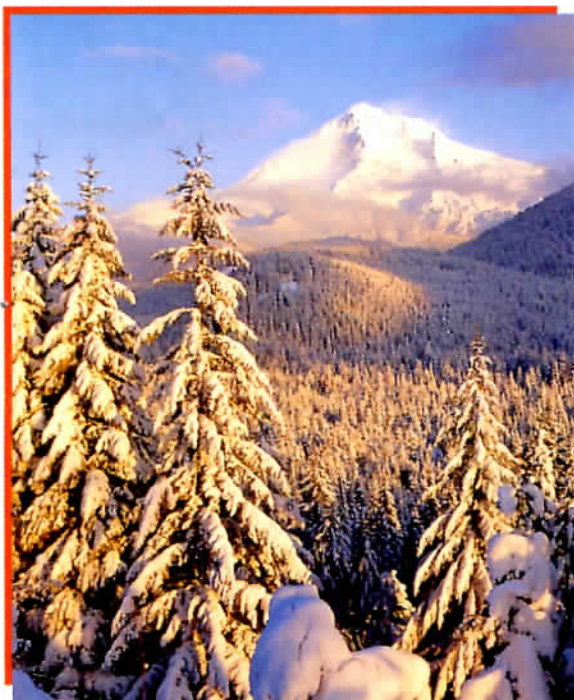
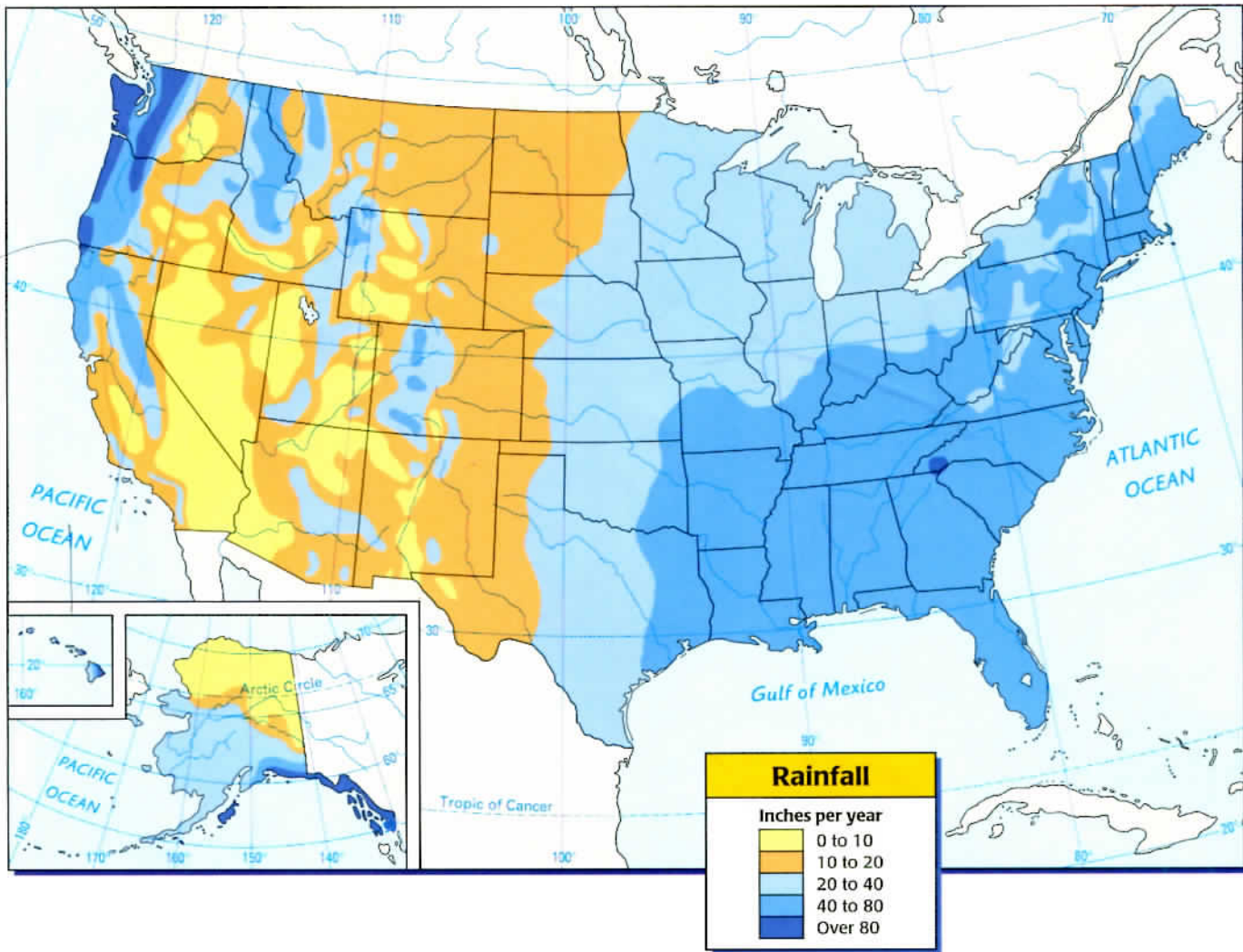
- International boundary
- State boundary

Scale

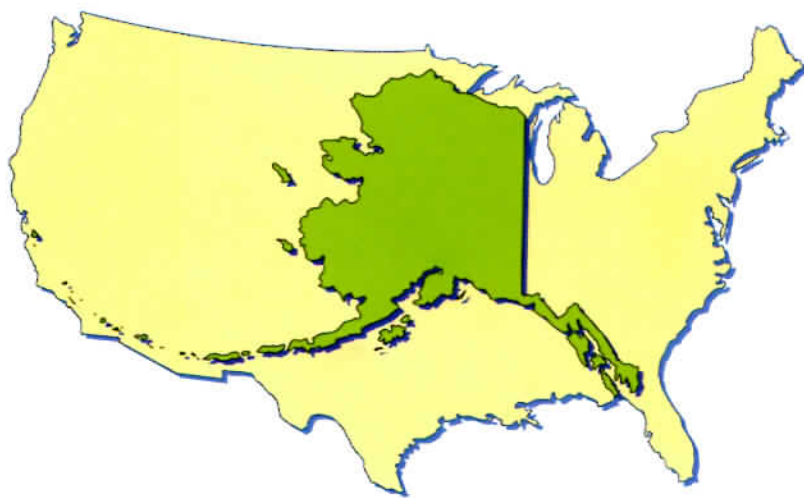
0 100 200 300 miles

1 inch stands for 200 miles

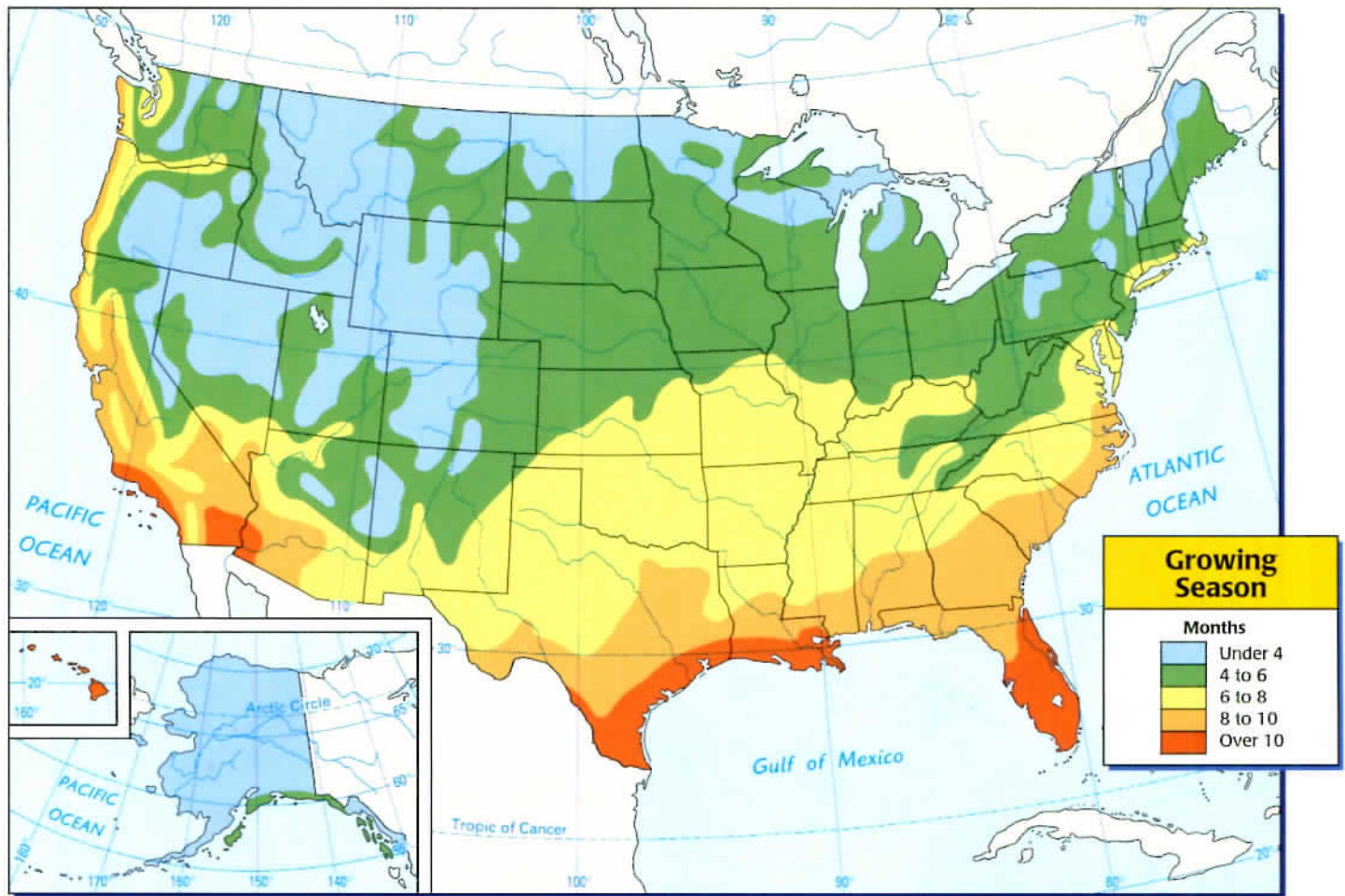
Detailed legend on page 4



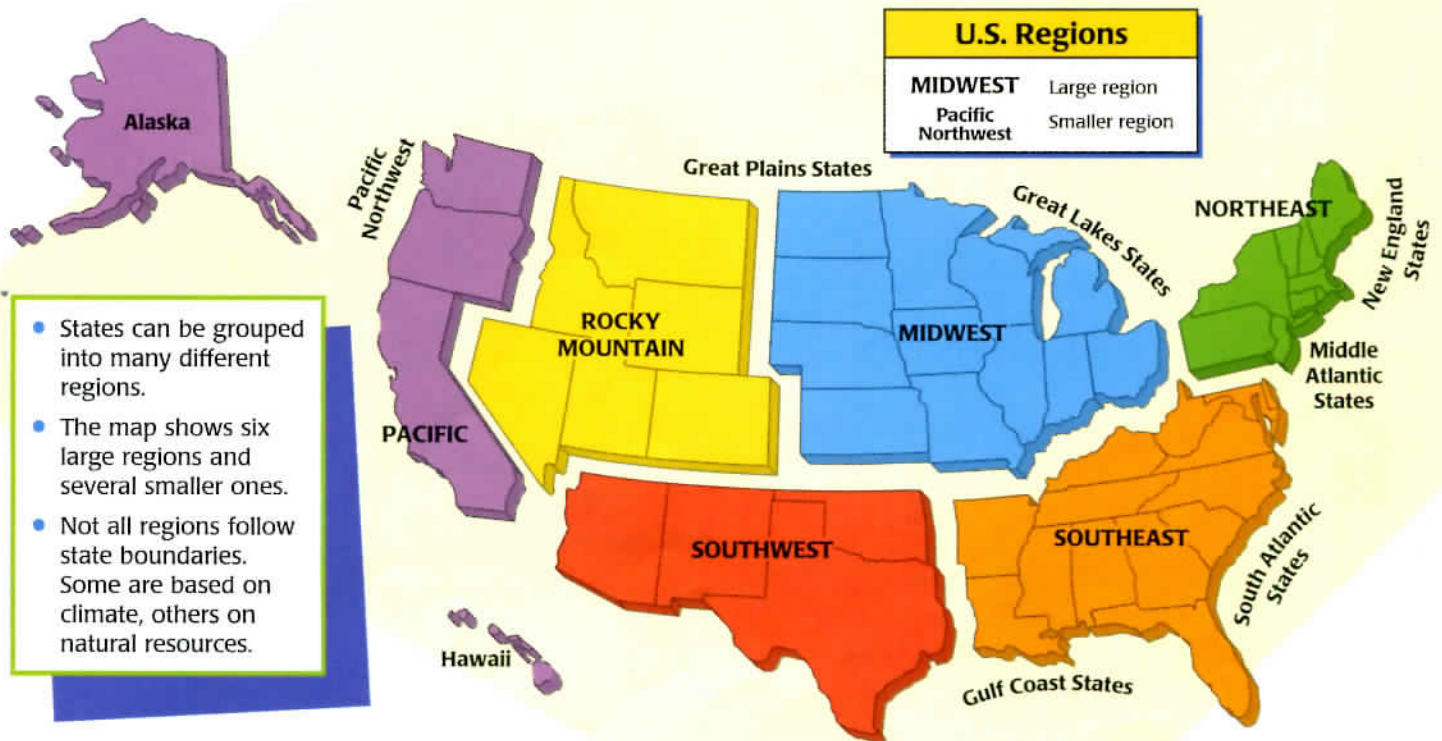
Snow blankets Mt. Hood, Oregon. Ten inches of snow are counted as one inch of rain.

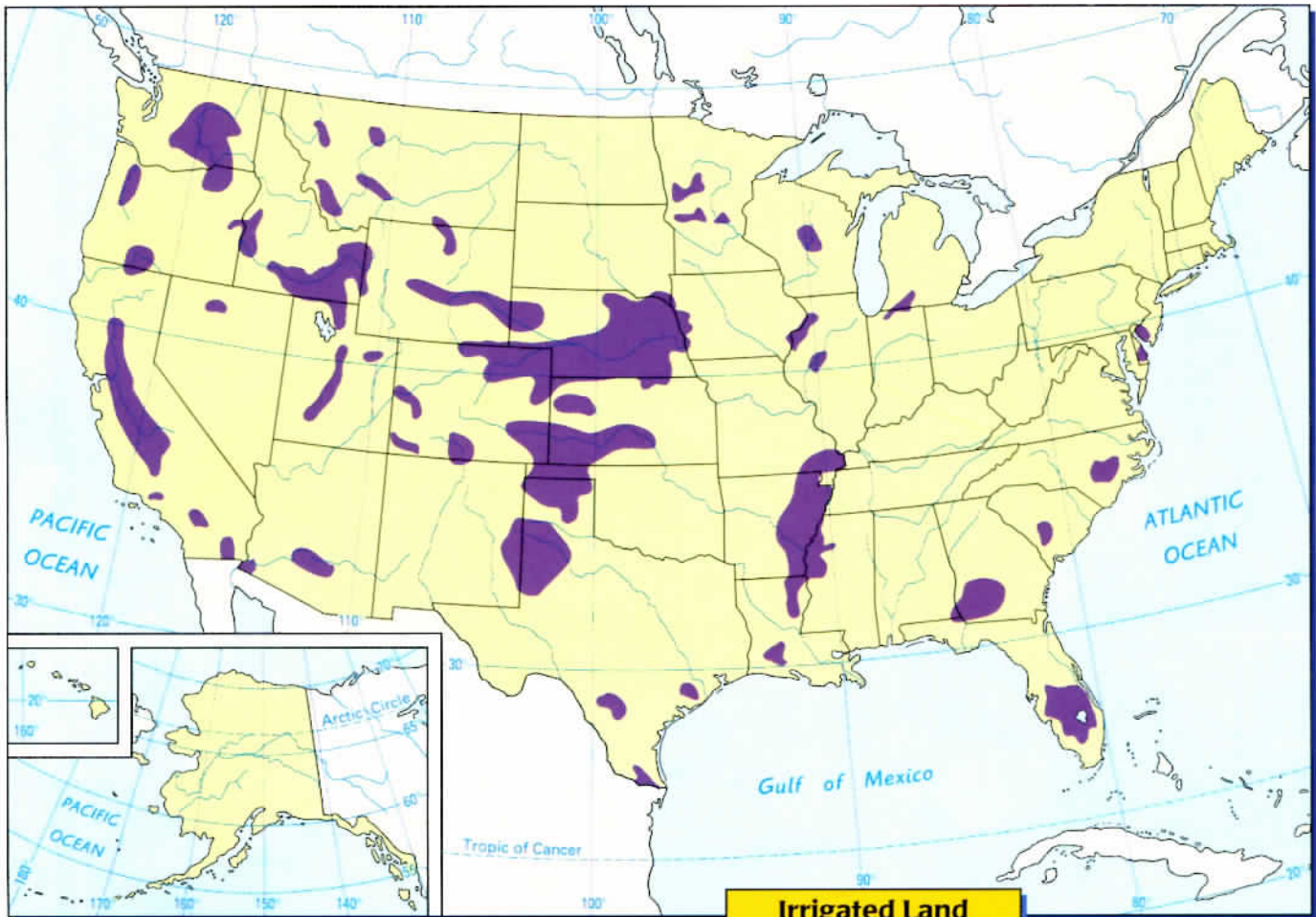


Alaska's Size and Shape	
Alaska	591,004 sq. mi.
48 States	3,021,295 sq. mi.

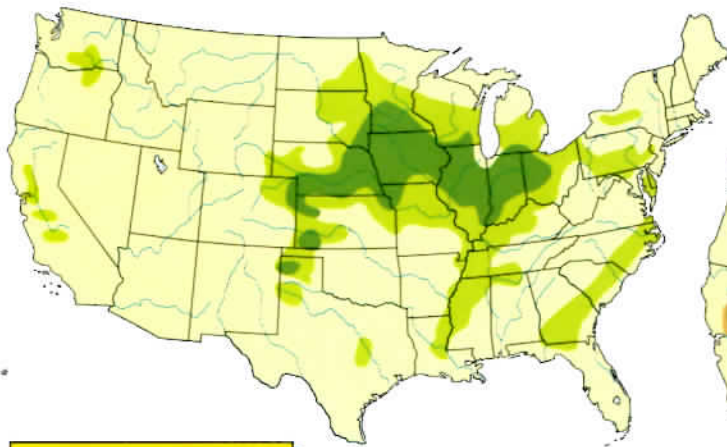


Focus on Regions of the United States



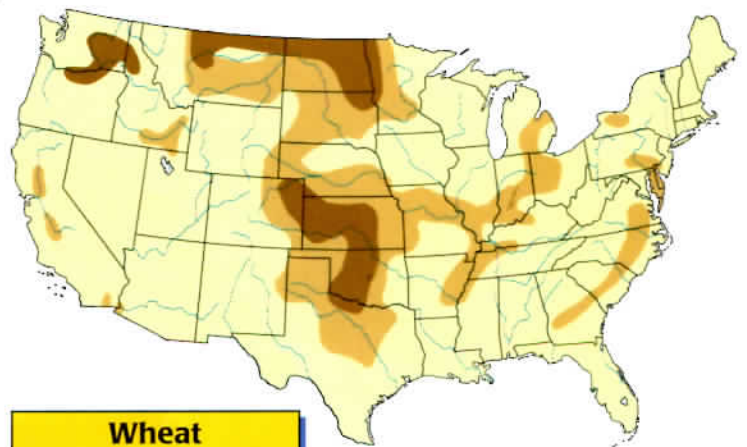
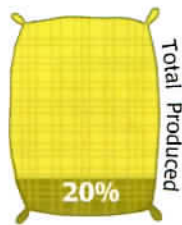


Irrigated Land
 Widespread irrigation



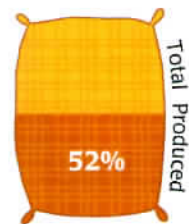
Corn
 Major producing area
 Other producing area

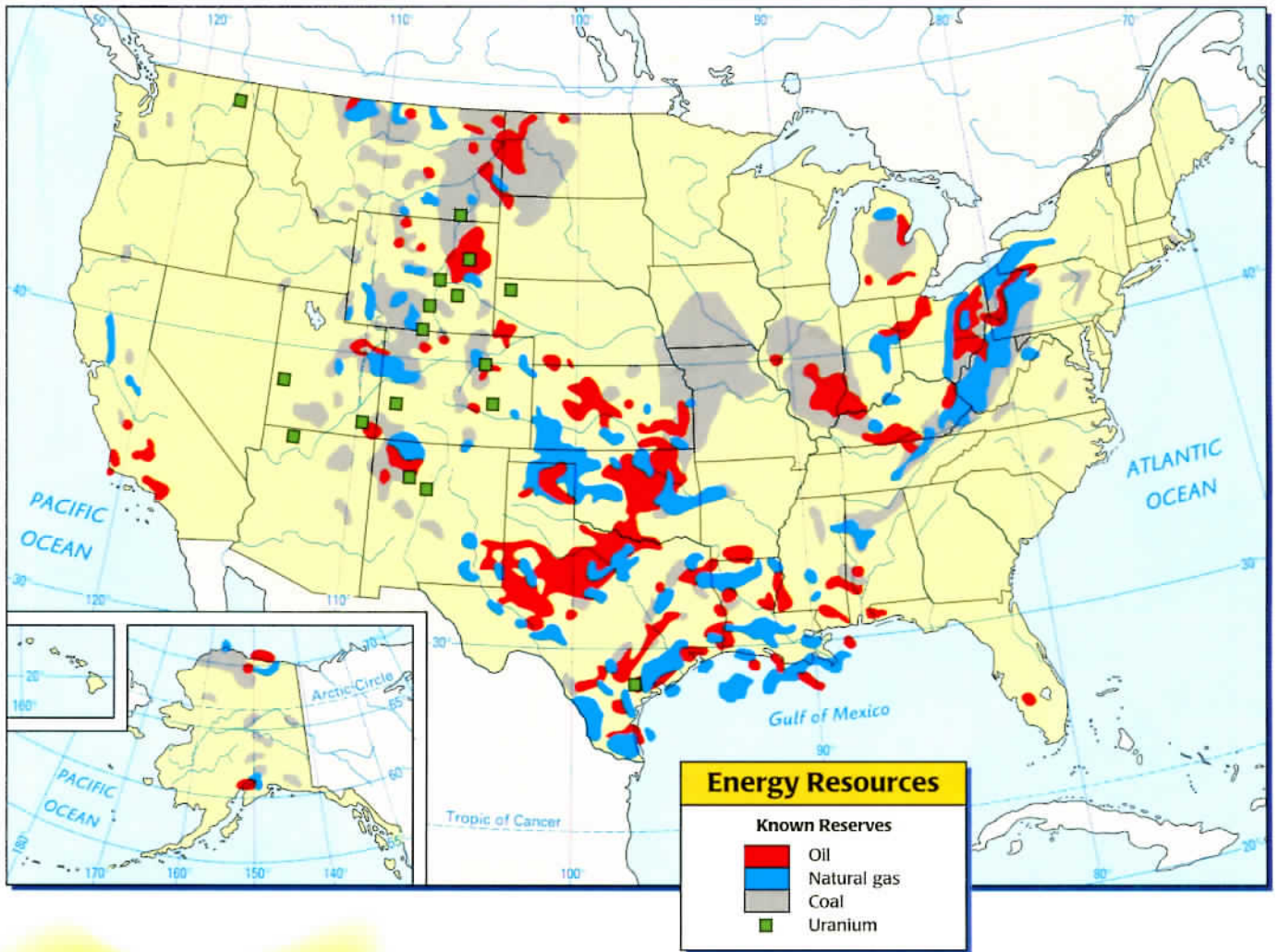
Corn Exports



Wheat
 Major producing area
 Other producing area

Wheat Exports



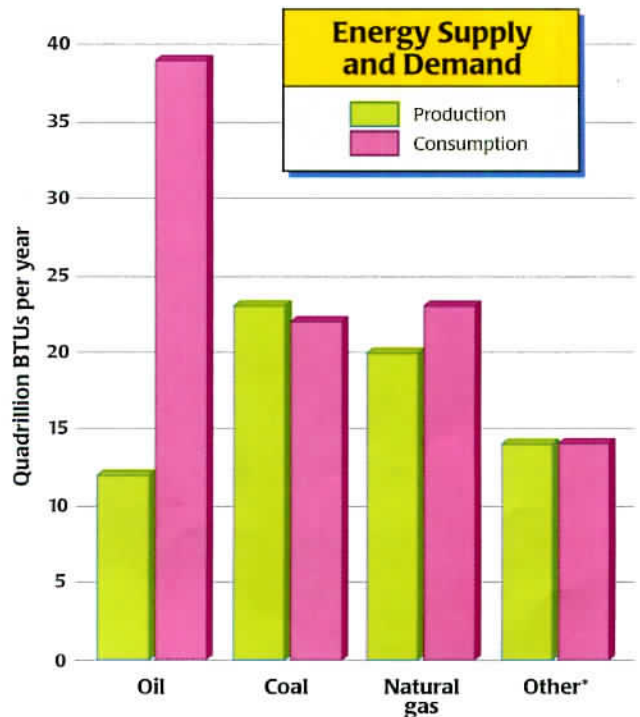


Who Needs Oil to Grow Wheat?

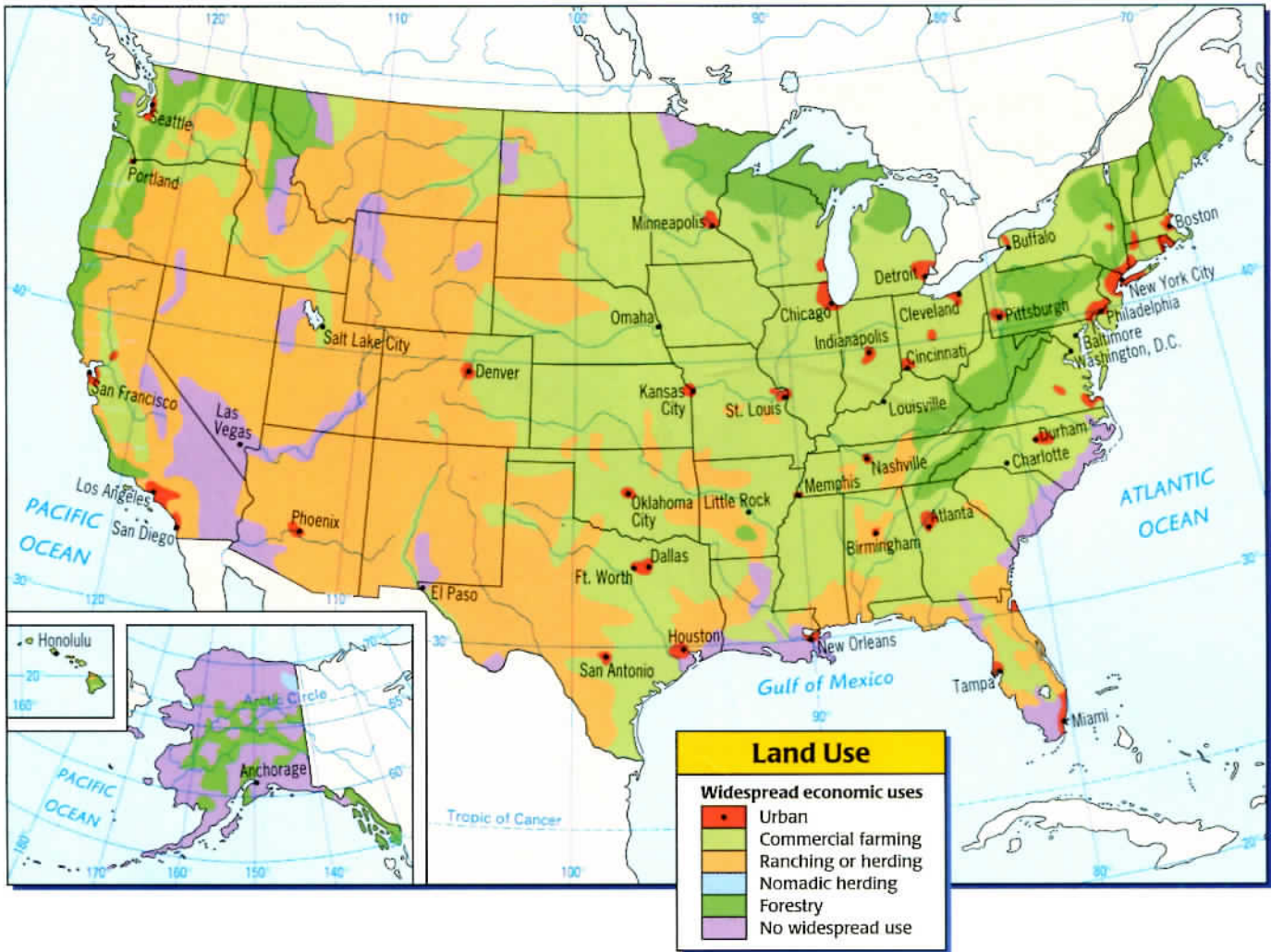
We do. In much of the world, farm work relies on muscle power. But here farming relies on energy resources. What are some of the ways farms use energy?



Farmers conserve soil by alternating crops and by plowing curved fields that follow the natural slope of the land. Their crops may be used to make *ethanol*, an alternative fuel that helps conserve oil.



*Nuclear, hydroelectric, geothermal, solar, wind



Can You Get There From Here?

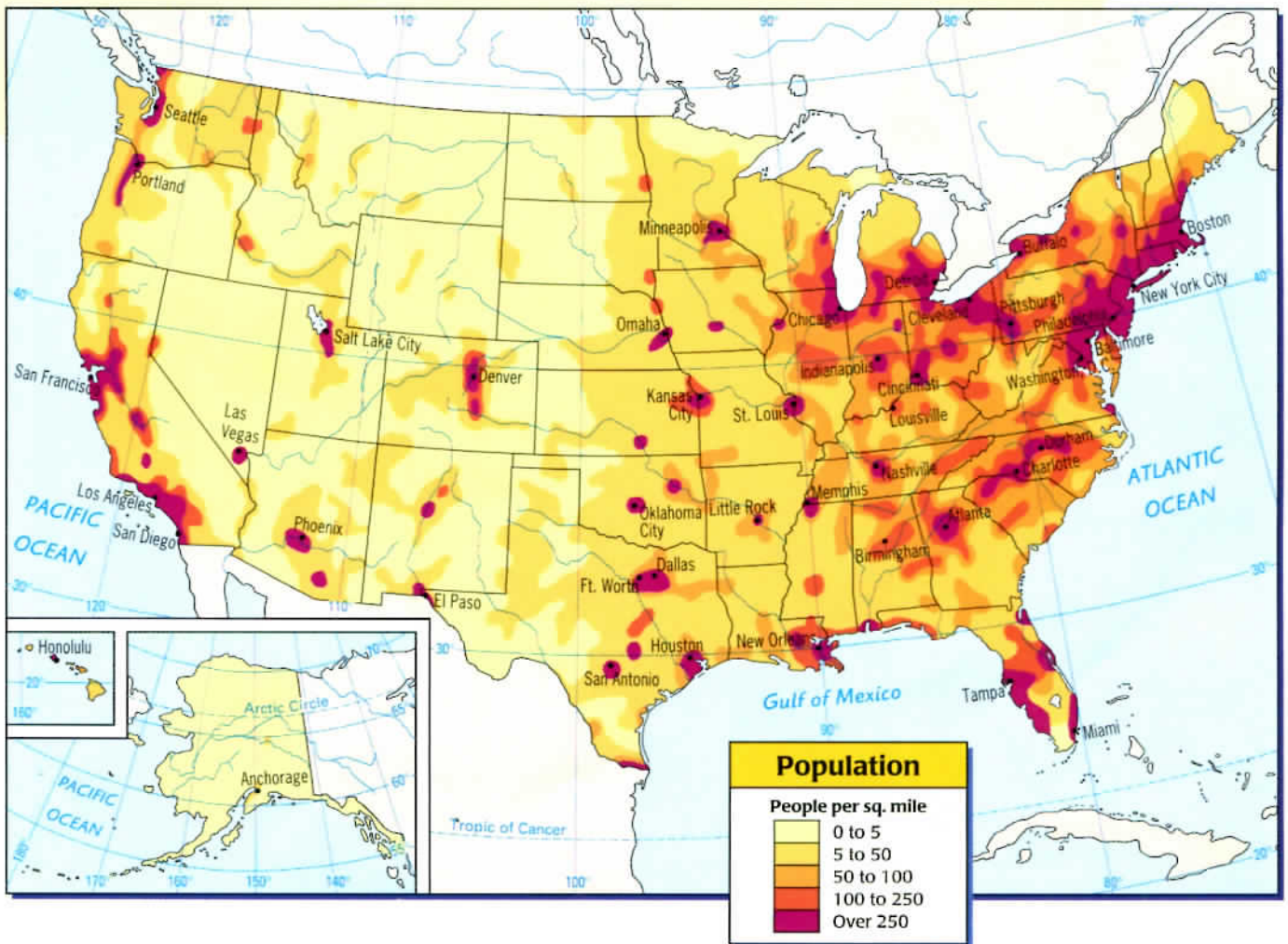
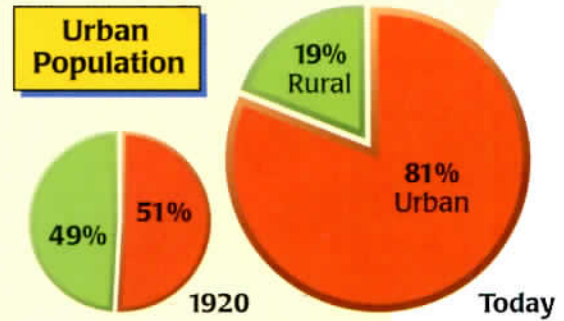
The Interstate Highway System, started in the 1950s, changed the United States. New highways allowed more people to move to far suburbs and commute to city jobs. Trucking became the number one way of moving goods.

Focus on Where Americans Live








New Yorkers enjoy a sunny day in Central Park. Despite limited space for growth, New York is the largest city in the United States.

- In 1790 only 5% of Americans lived in cities. Since then the country has become more and more urban.
- The East Coast was colonized first, and the East Coast states still have more people than the West Coast states.
- Today the fastest-growing cities are in the South and West.






**Land Cover Map
Middle America**

		
Cropland	Grassland	
		
Semi-desert & desert	Tropical rain forest	Broadleaf forest

Boundary Symbols

 International boundary

Scale

0 100 200 300 miles

1 inch stands for 242 miles

Detailed legend on page 3



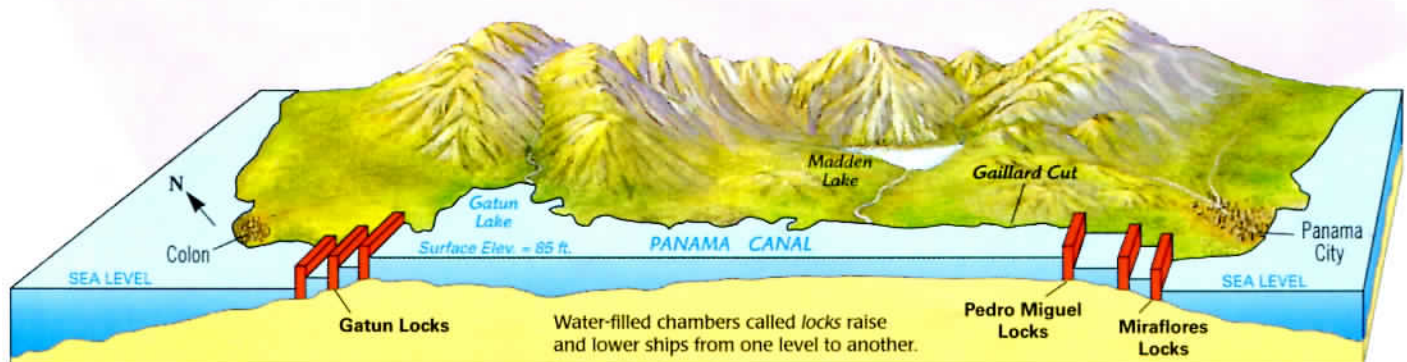
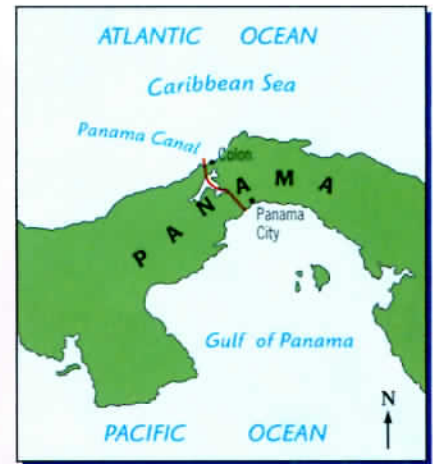






Focus on the Panama Canal

- Most ships traveling between Atlantic and Pacific ports pass through the Panama Canal.
- The canal saves them thousands of miles and several days.
- Its narrowness makes the canal a potential "choke point."





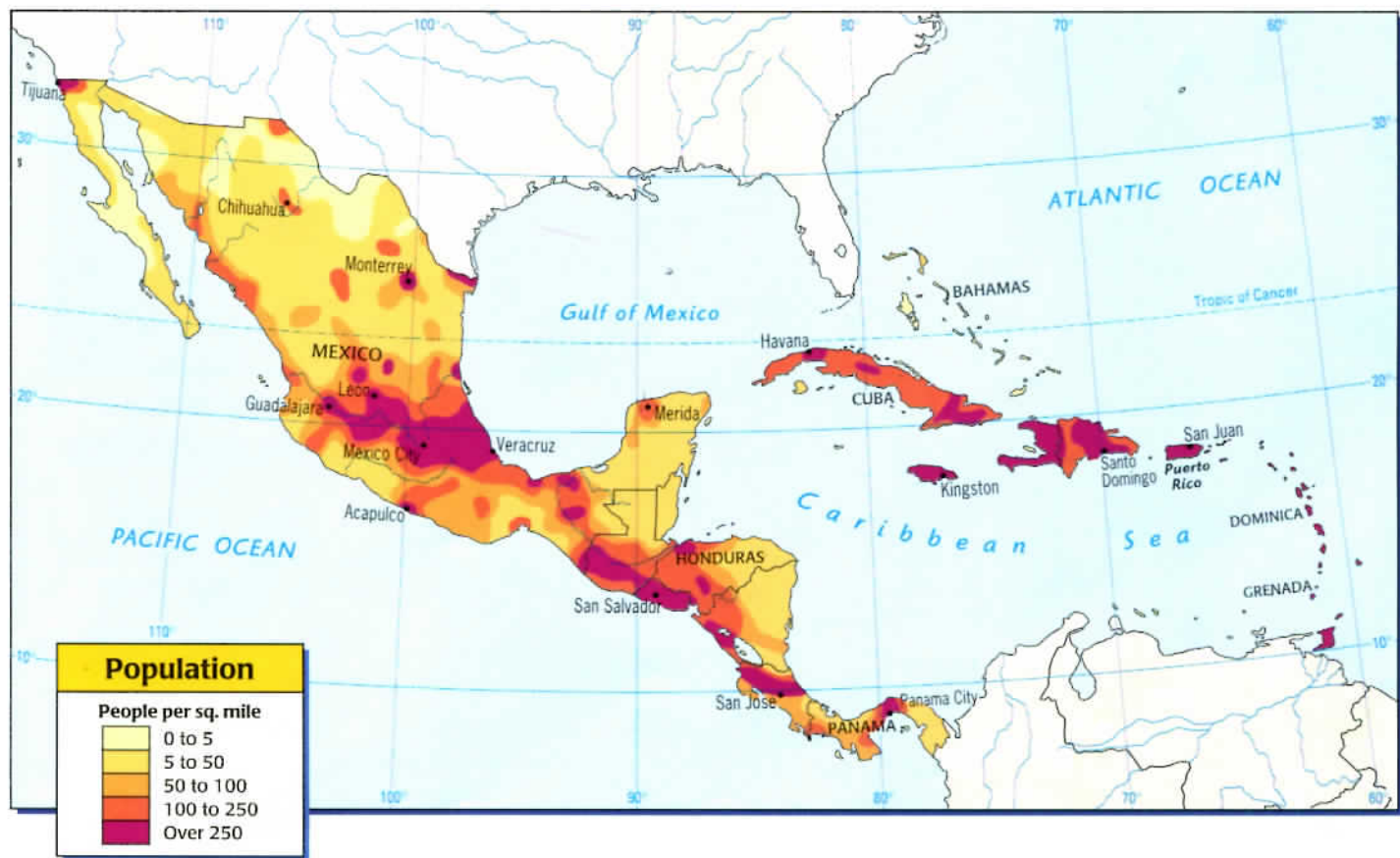
Schoolchildren in Havana reflect Cuba's racial diversity. An old Spanish fort can be seen in the background.



Mexico City's Roman Catholic cathedral stands beside the ruins of the main temple of the ancient Aztecs.

Where Is Rio Bravo del Norte?

It's called the Rio Grande on the U.S. side of the border, but in Mexico it's Rio Bravo del Norte—two Spanish names for the same river.





Detailed legend on page 3



Political Map South America

Boundary Symbols
 - - - International boundary

City Symbols

- Sao Paulo ●
- Tucuman ●
- Cusco ●

A city's relative size is shown by the size of its symbol and lettering.

Caracas ⊛ National capital

Scale
 0 250 500 750 1000 miles
 1 inch stands for 594 miles

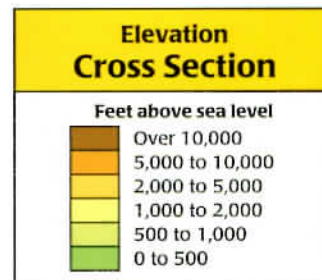
Detailed legend on page 3



A Chilean worker trims grapevines. Chile is the world's largest exporter of grapes.

Snow in July?

Seasons occur at opposite times of the year in the Southern and Northern Hemispheres. In Argentina, summer begins in December and snow falls in July and August.



Focus on the Amazon Rain Forest

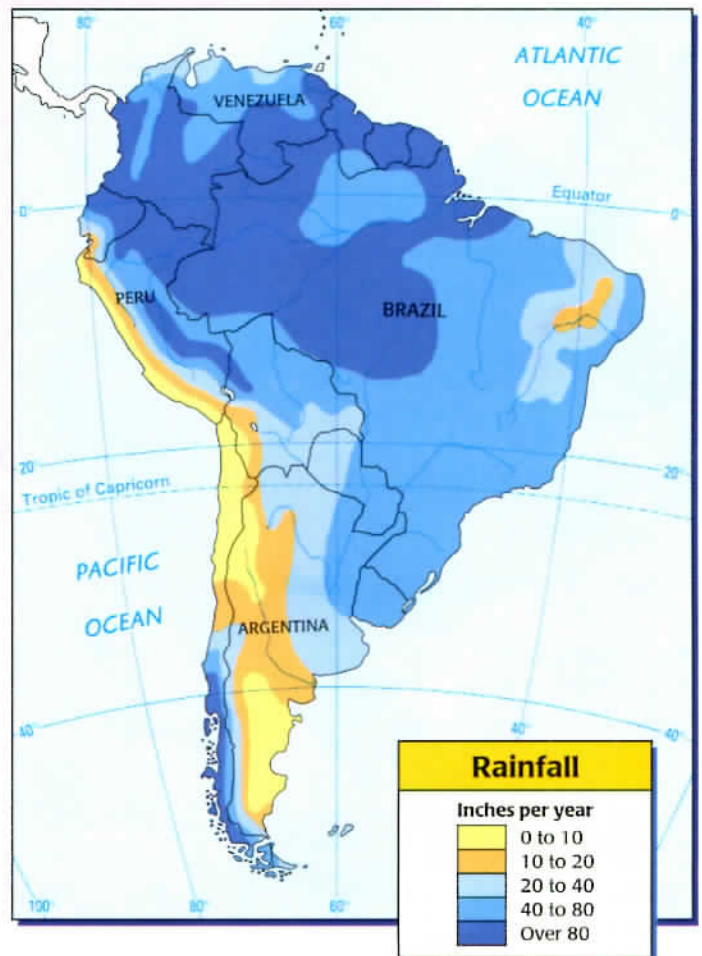


In sharp contrast to the Amazon Basin, the Atacama Desert sometimes goes for years without rain.

- Tropical rain forests are an important source of rare plants and the oxygen we breathe.
- The Amazon Rain Forest, the largest in the world, is shrinking.
- Large areas have been *deforested*, cleared for farming and mining.



The easiest way to travel in the dense Amazon Rain Forest is by boat.





Who Is El Niño?

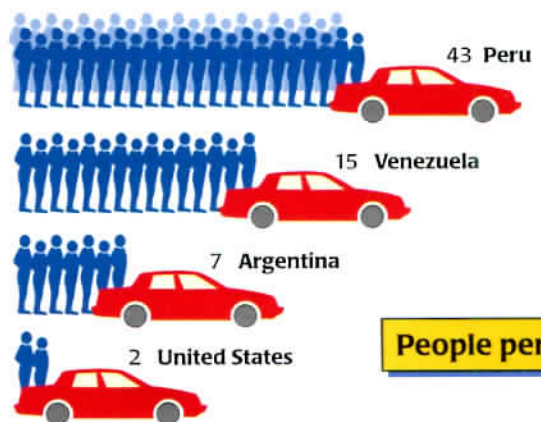
Every few years, much of the Pacific Ocean turns unusually warm. Peruvian fishermen noticed that the arrival of warm water meant fewer fish. Since it arrived in late December, they named the phenomenon *El Niño*—Spanish for “the Christ Child.”



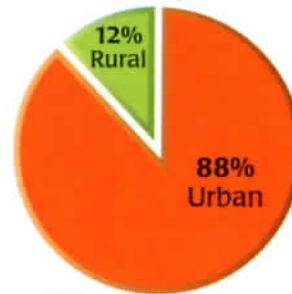
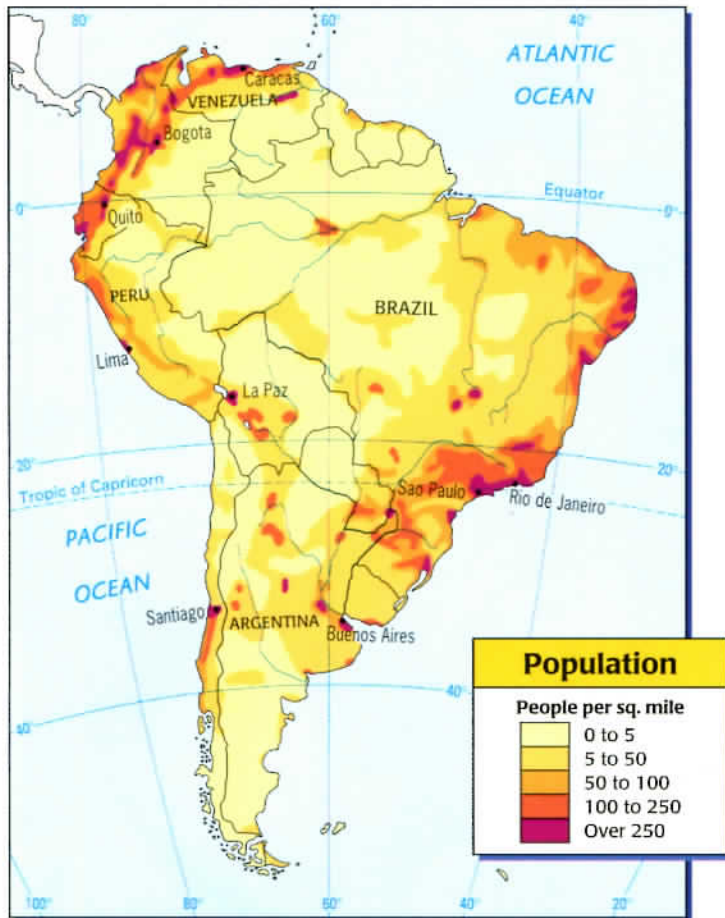
A man in rural Brazil prepares new thatch for his roof using local plants. Many Brazilians live far from any city.



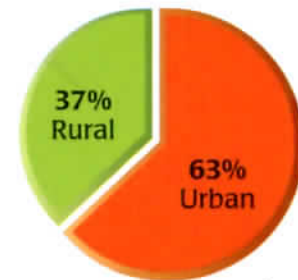
Brazil's Size and Shape	
■ Brazil	3,286,500 sq. mi.
■ 48 States	3,021,295 sq. mi.



People per Car



Chile



Ecuador

Urban Population

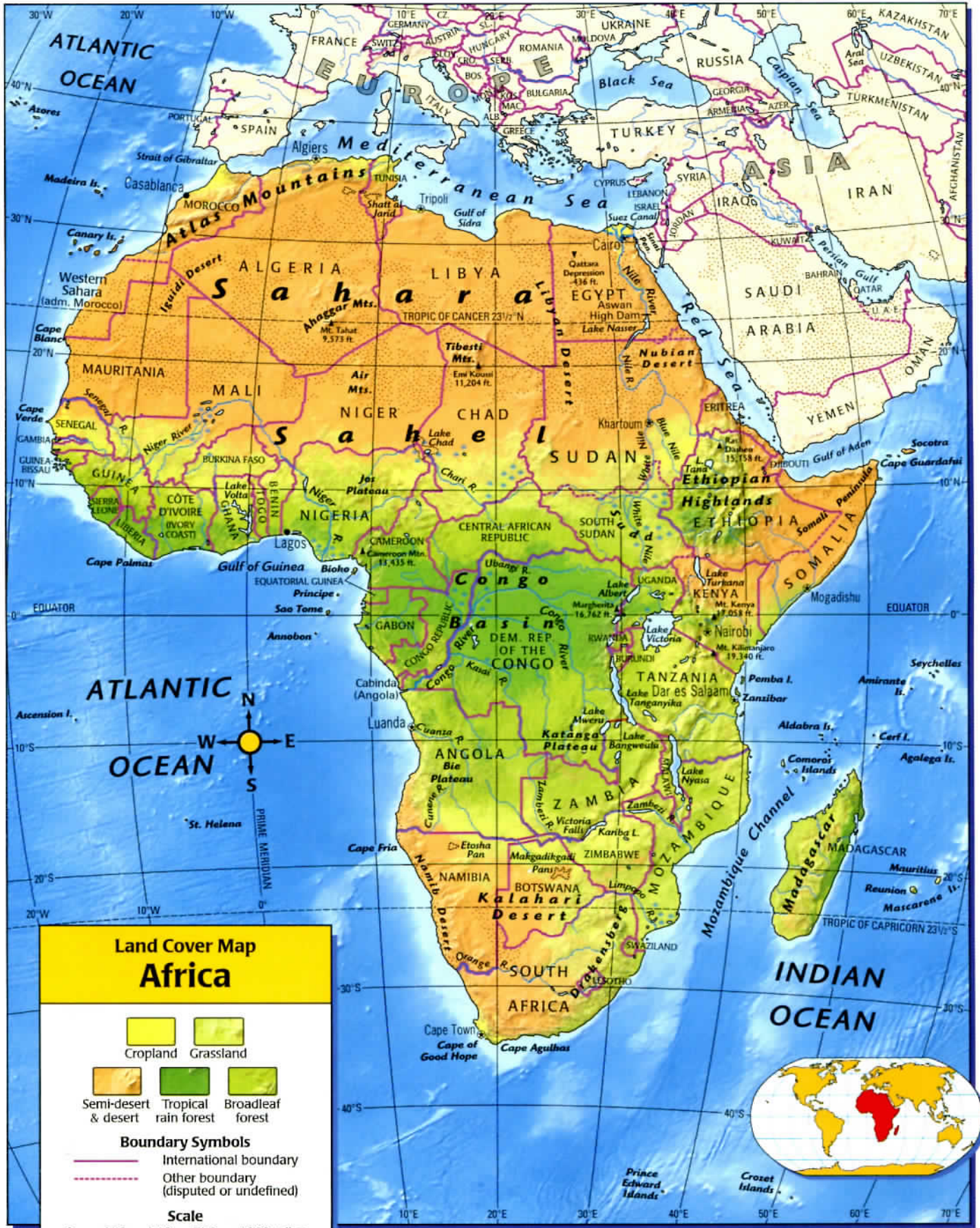
Focus on Latin America



A statue of Christ overlooks the harbor of Rio de Janeiro. Most Latin Americans are Christian.



- The people of South America and Middle America are known as *Latin Americans*.
- Most Latin Americans speak Spanish, Portuguese, or French—languages based on Latin.
- Half of all Latin Americans live in Brazil. Most Brazilians speak Portuguese.



Land Cover Map Africa

Cropland	Grassland
Semi-desert & desert	Tropical rain forest
Broadleaf forest	

Boundary Symbols

- International boundary
- Other boundary (disputed or undefined)

Scale

0 250 500 750 1000 miles

1 inch stands for 730 miles

Detailed legend on page 3





**Political Map
Africa**

Boundary Symbols

- International boundary
- - - - - Other boundary (disputed or undefined)

City Symbols

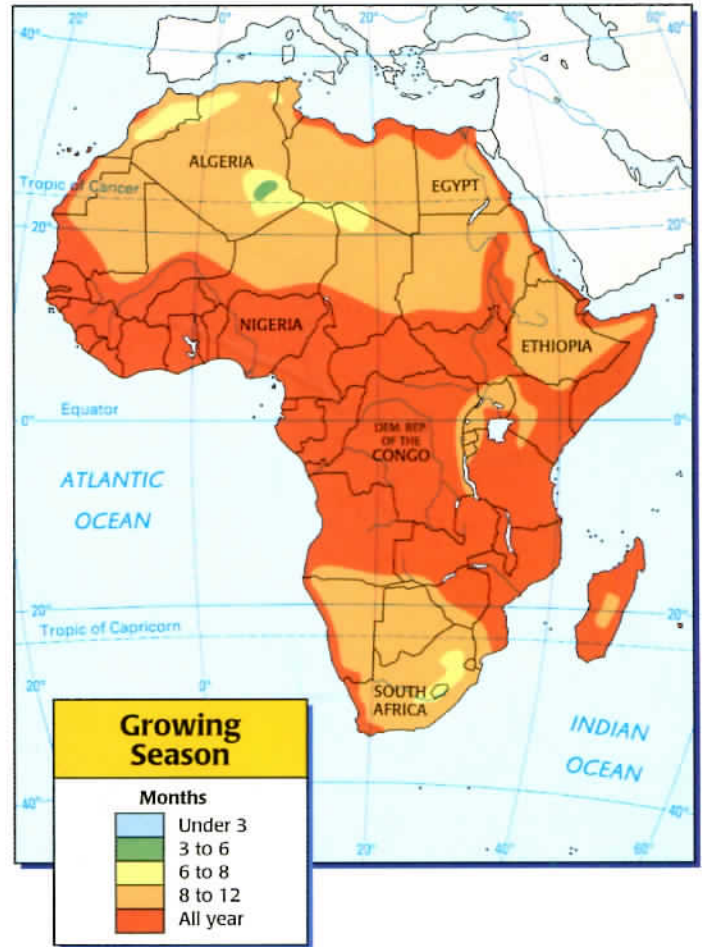
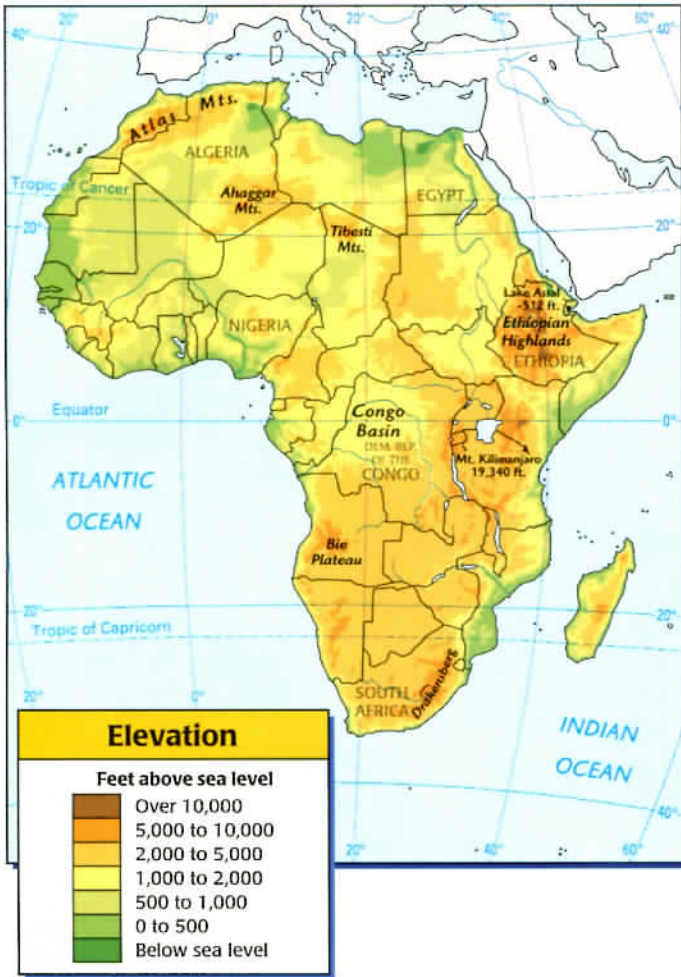
- Alexandria ● A city's relative size is shown by the size of its symbol and lettering.
- Durban ●
- Lubango ●
- Algiers ⊗ National capital

Scale

0 250 500 750 1000 miles

1 inch stands for 730 miles

Detailed legend on page 3



The Zambezi River drops steeply at Victoria Falls. African rivers flow from interior plateaus to the coast.



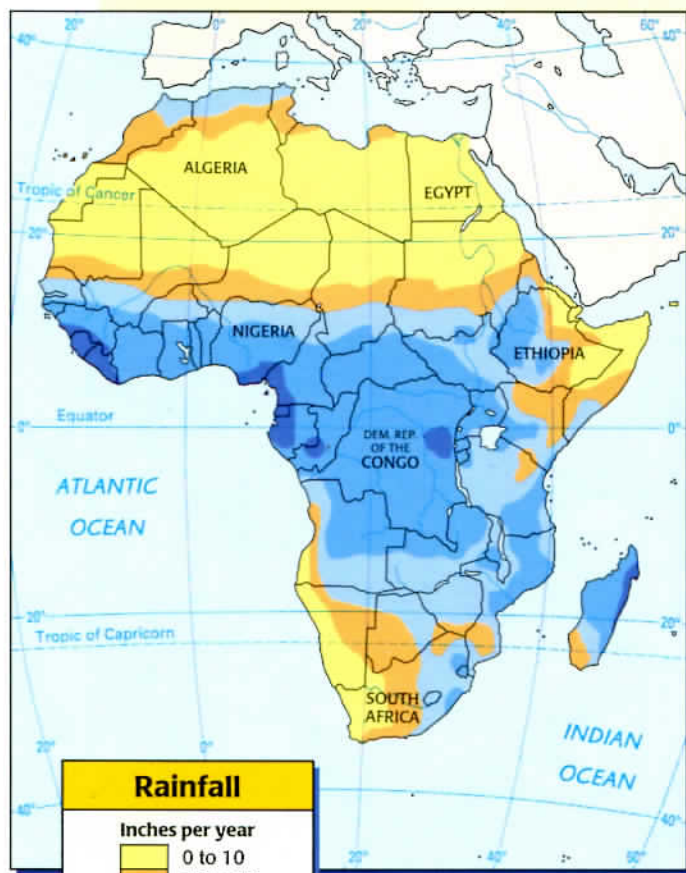
Elephants still roam the savanna near Mt. Kilimanjaro in one of Tanzania's game preserves.

Focus on the Sahara

- In Arabic, *Sahara* means "desert."
- No other desert is close to its size. The Sahara is larger than the 48 contiguous United States.
- It is famous for sand dunes, but much of the bone-dry Sahara is stony rather than sandy.

The Sahara

- Extent of Sahara
- Non-Saharan Africa



Rainfall

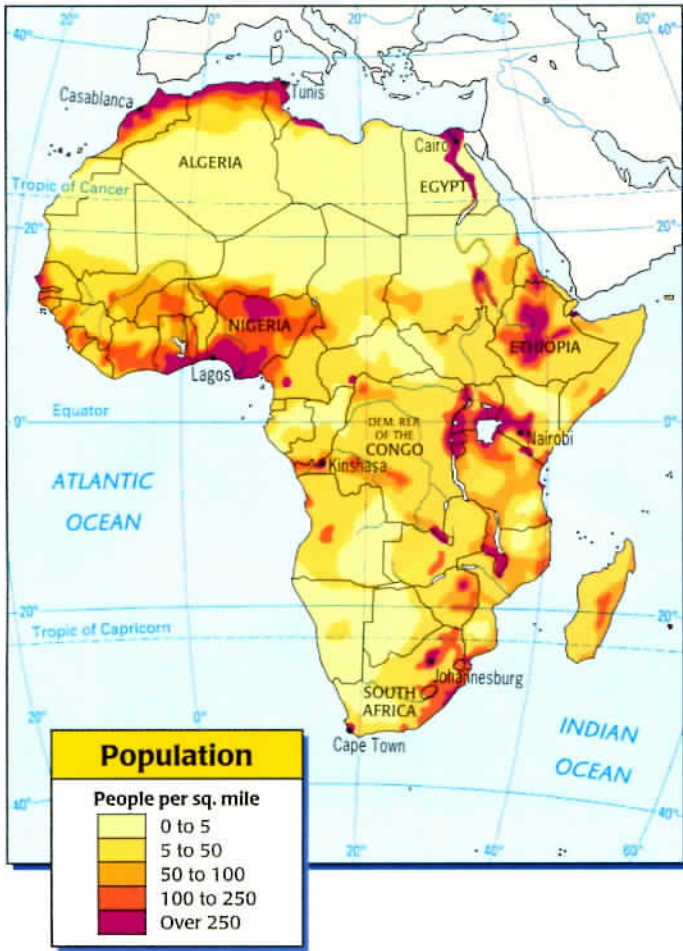
Inches per year
0 to 10
10 to 20
20 to 40
40 to 80
Over 80



Ancient Egyptian pyramids tower over the Sahara. For scale, find the cars in the lower left part of the picture.

How Hot Was It?

The hottest temperature on record is 136.4°F. It was measured *in the shade* in the Libyan part of the Sahara. The North American record is 134°F, set in Death Valley, California.



Say What?

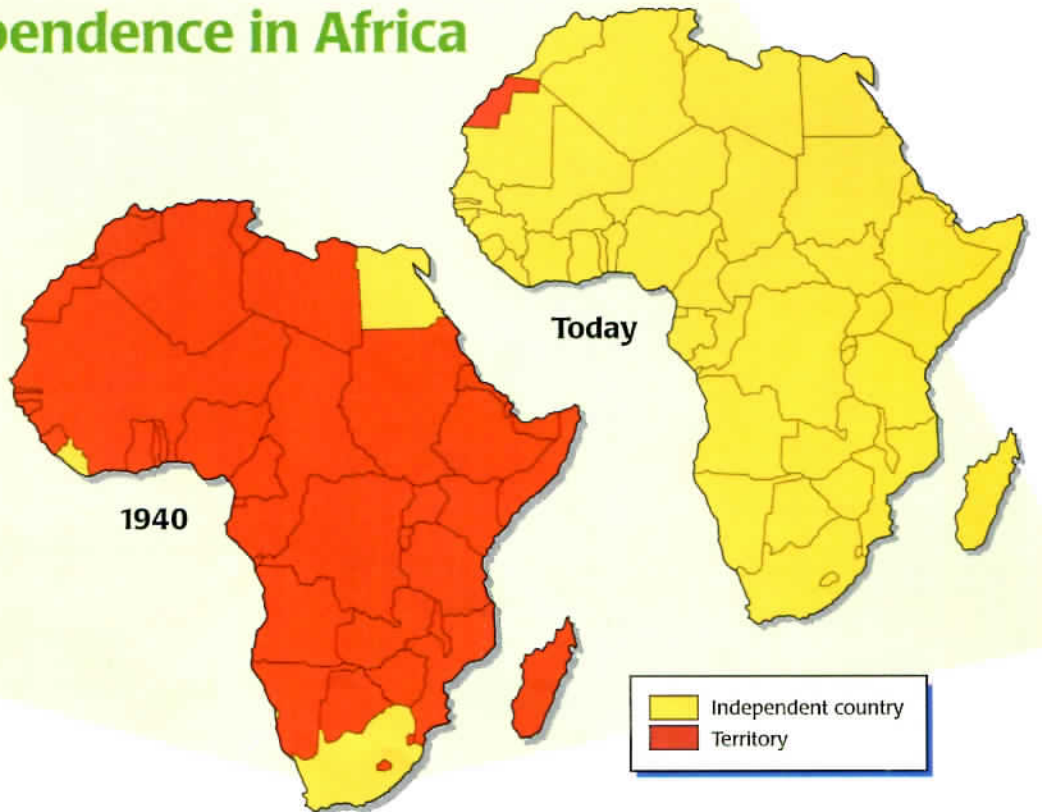
More than 800 languages are spoken in Africa's 54 countries. Communication can be difficult, not just between countries, but within them as well. In many places, the only common language is that of the last colonial power.



Villagers in Niger wear traditional dresses. Most Africans live in small villages.

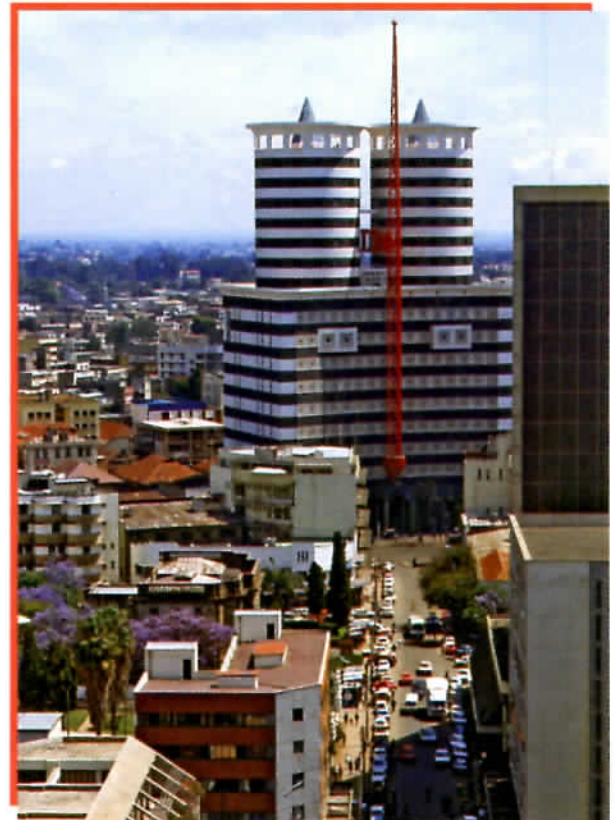
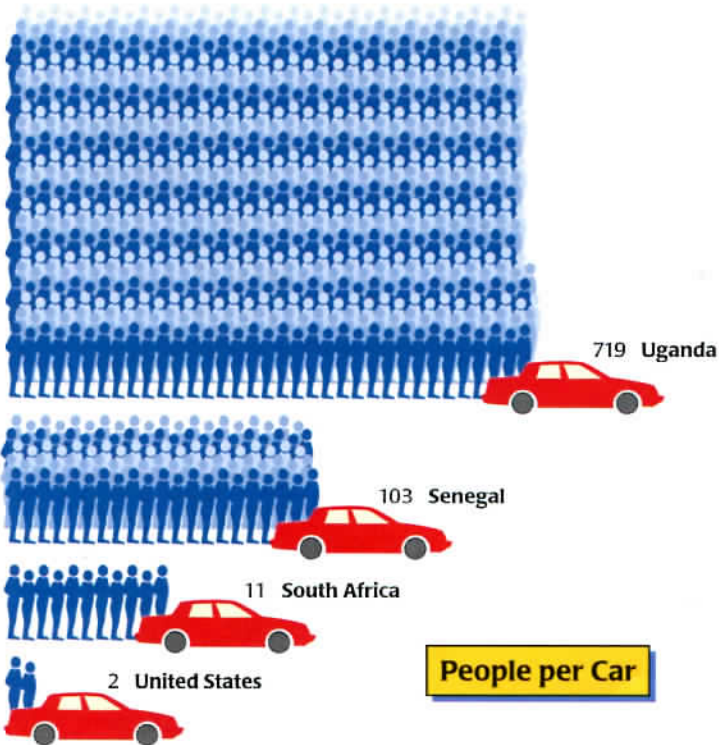
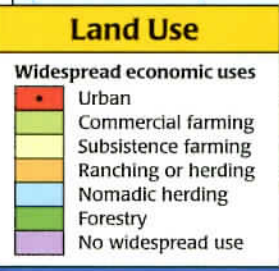
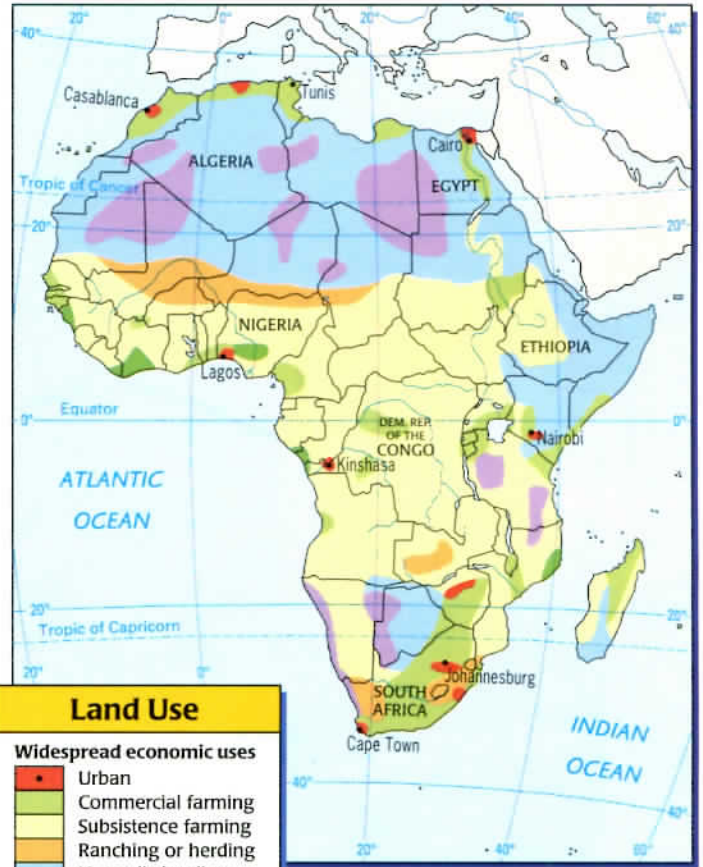
Focus on Independence in Africa

- Between 1884 and 1940, most of Africa was ruled by European countries.
- From 1941 to 1968, 39 African countries won independence.
- Twelve more African countries gained their independence between 1973 and 2011.





In Zimbabwe, a farmer tends her corn crop. Her house stands nearby.



Nairobi is the capital of Kenya and a major business center for East Africa.





Political Map Europe

Boundary Symbols

- International boundary
- Other boundary (disputed or undefined)
- Small country

City Symbols

- Barcelona ● A city's relative size is shown by the size of its symbol and lettering.
- Glasgow ●
- Constanta ●
- Moscow ⊗ National capital

Scale

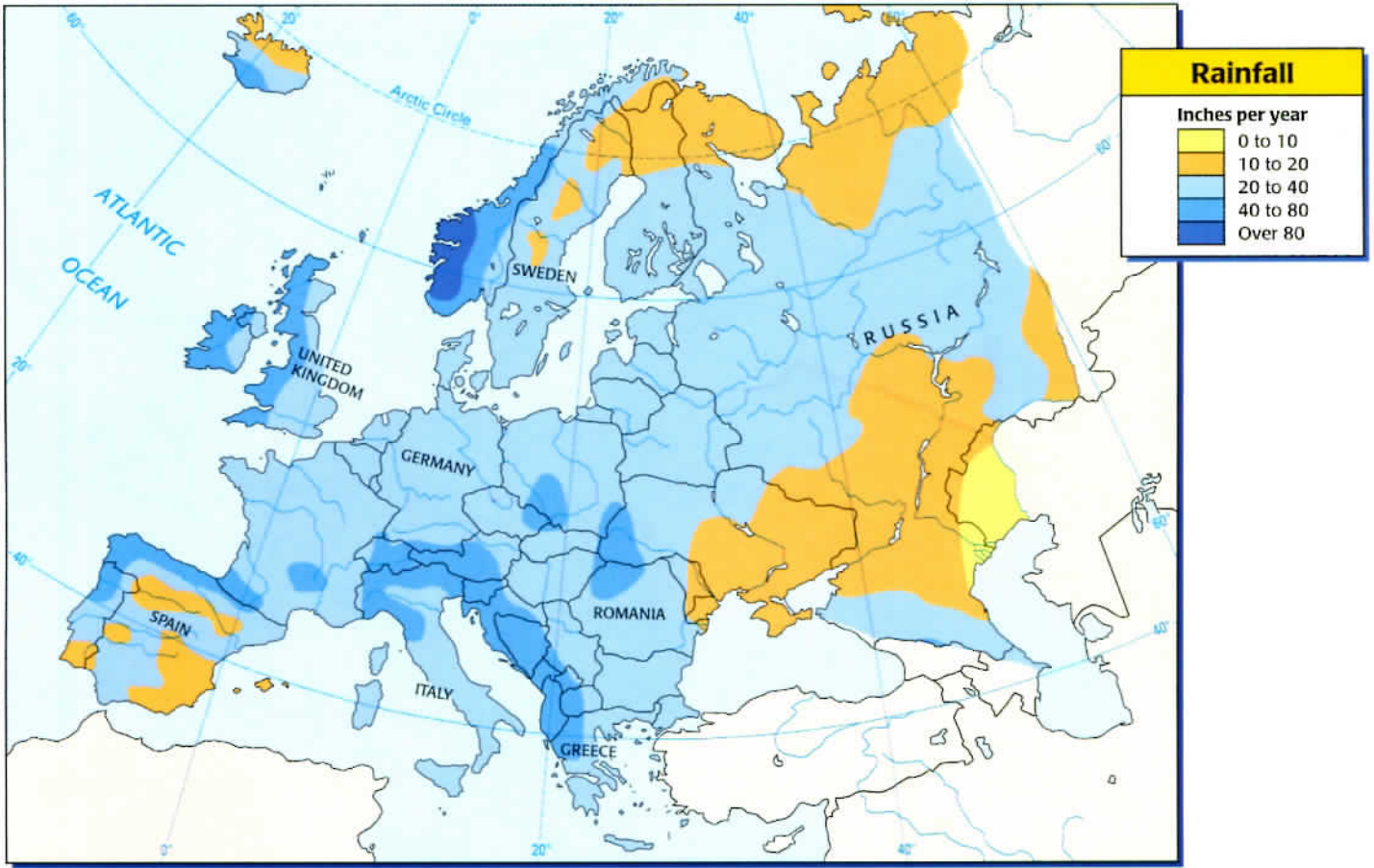
0 100 200 300 400 miles

1 inch stands for 276 miles

Detailed legend on page 3



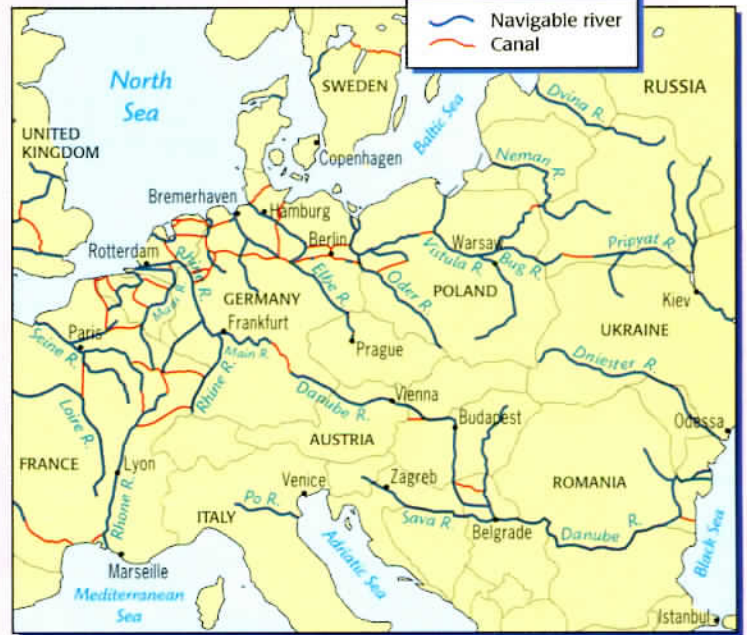




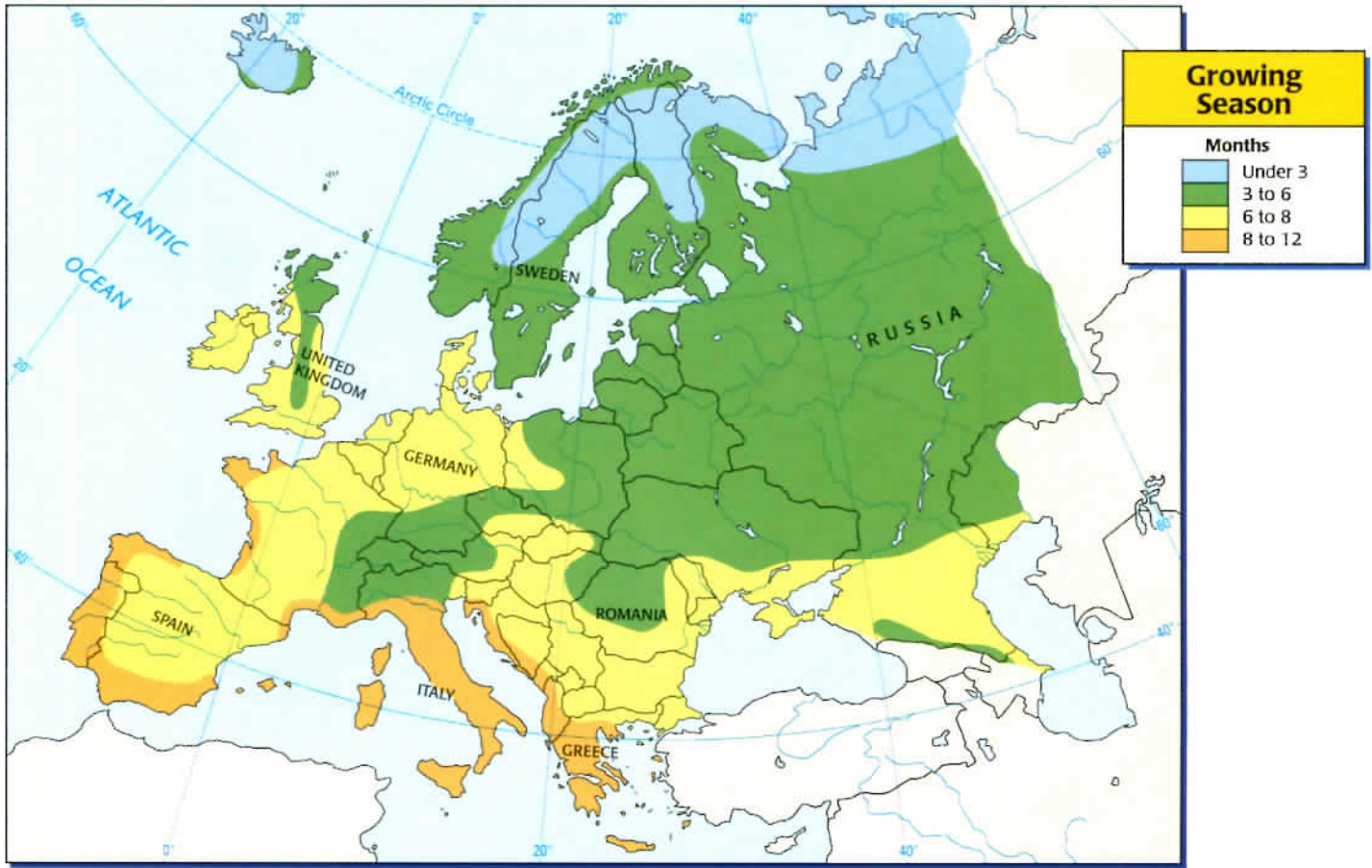
Focus on Highways of Water

- The Rhine and Danube Rivers and the rivers and canals that flow into them form a vast inland waterway.
- Barges and boats provide cheap transportation for raw materials and finished goods.
- The network's busiest river is the Rhine.

European Waterways



A river barge passes Frankfurt, Germany. The city sits on the banks of the busy Main River, which flows into the Rhine.



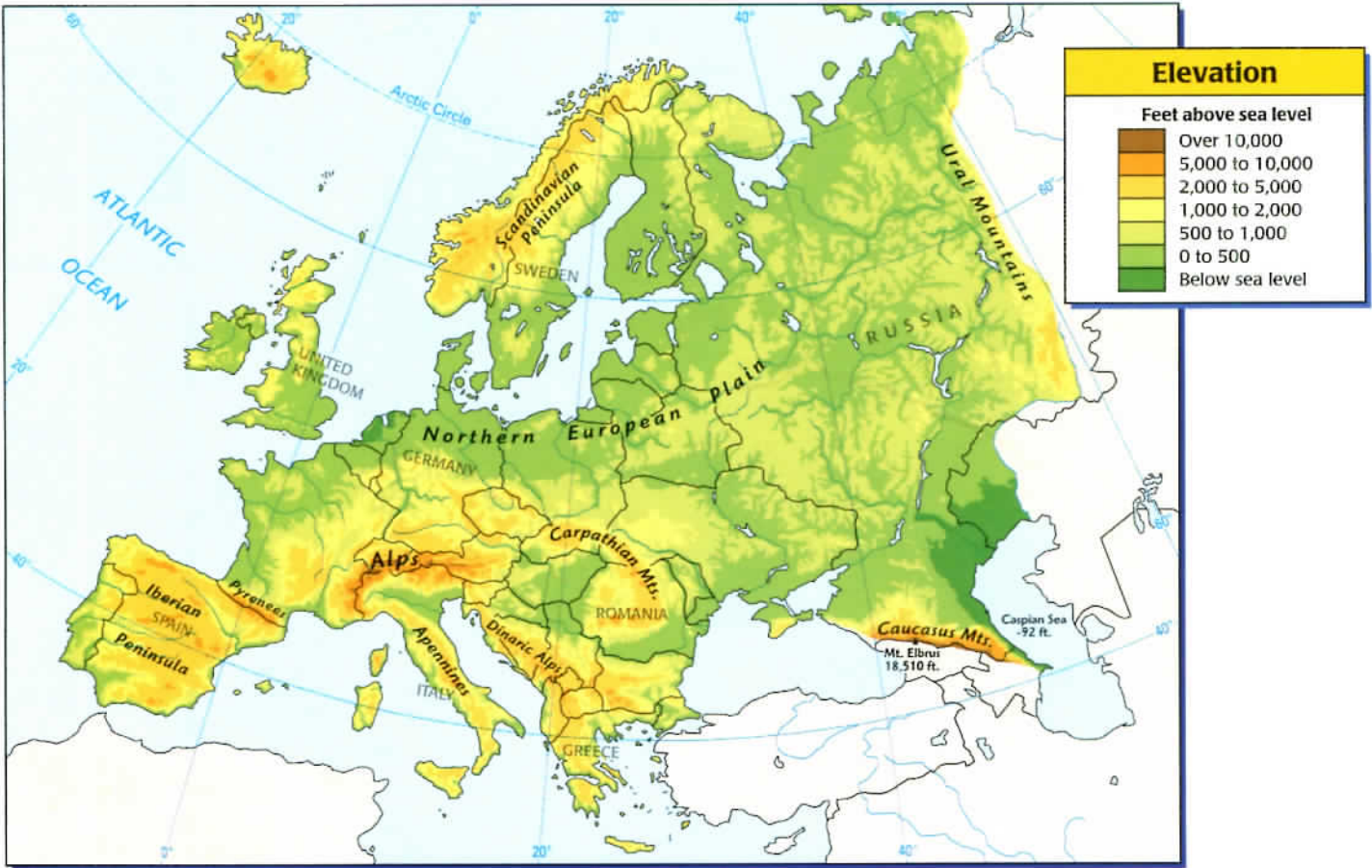
France's Wheat Exports



Europe's Size and Shape	
Europe	4,033,000 sq. mi.
48 States	3,021,295 sq. mi.

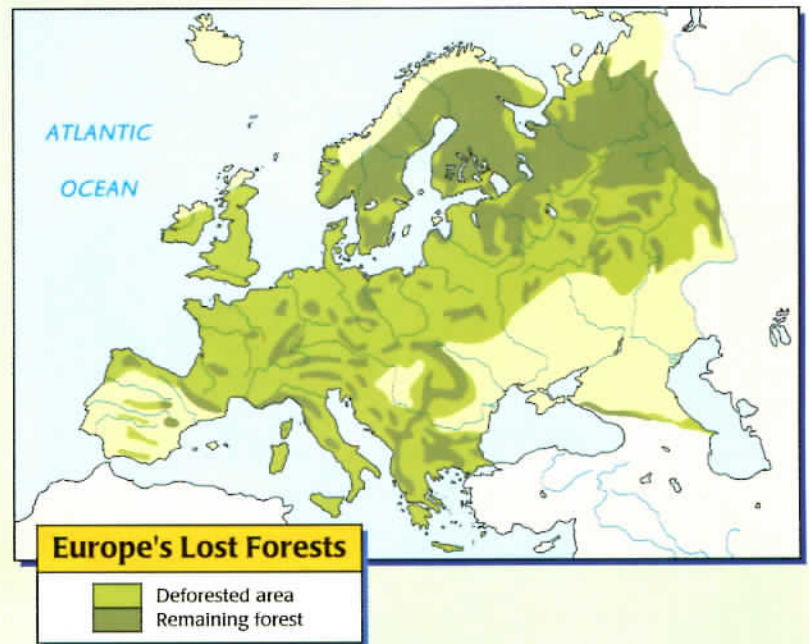


Farmers harvest wheat in Russia. Most of Europe has a climate that favors farming.



Focus on an Unnatural Landscape

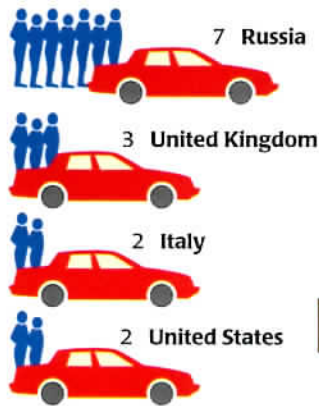
- For centuries Europeans changed the landscape around them.
- European forests were cleared for farmland and to provide timber for ships and charcoal for industry.
- Early factories and growing cities polluted the air and water.



Industries began polluting Europe long ago. But recent laws have helped restore cleaner air and water.

Where Was *That One* Made?

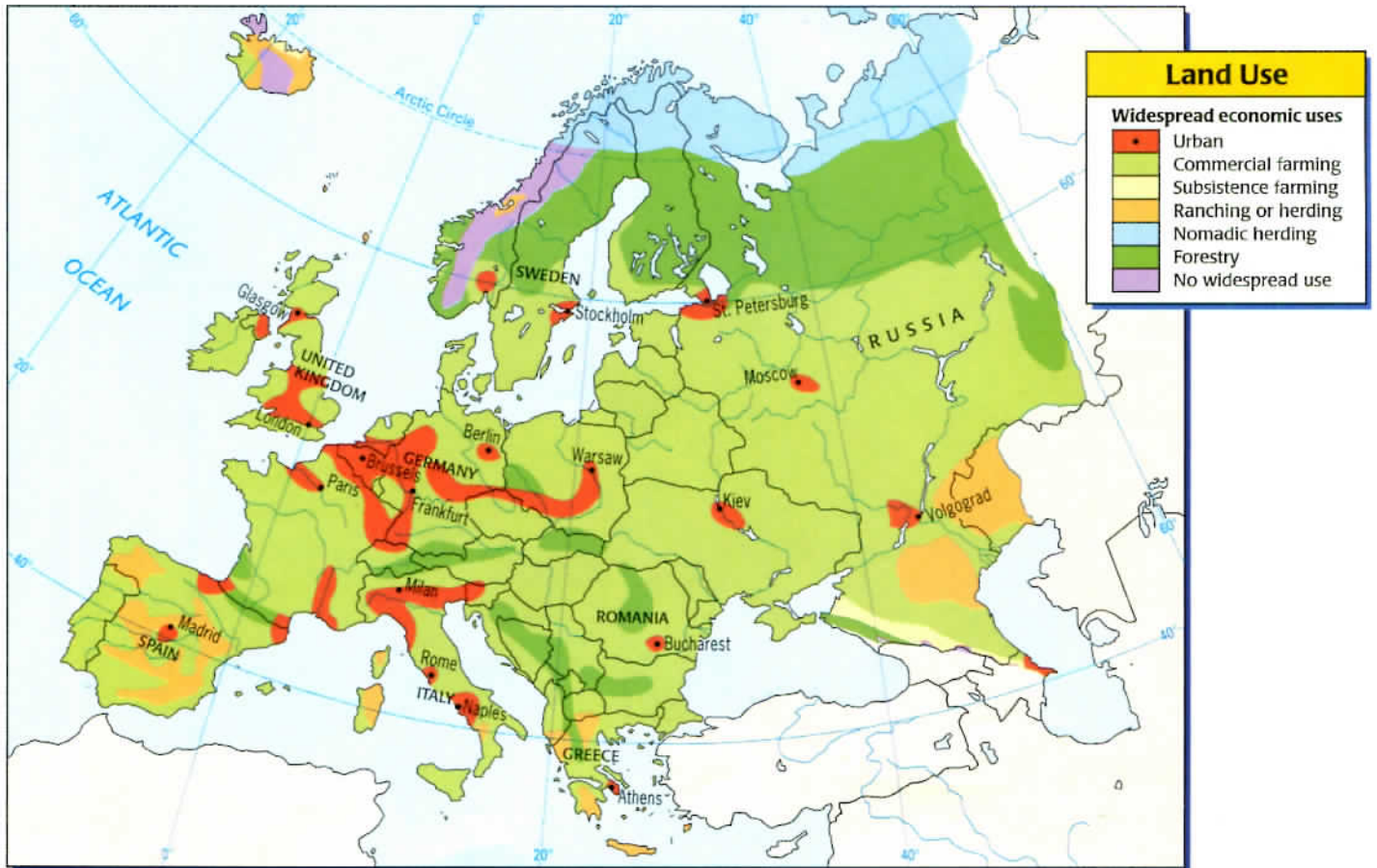
Some of the best-known cars in the world are Mercedes-Benz, Fiat, Volkswagen, Rolls-Royce, Volvo, Ferrari, Jaguar, and Peugeot. Can you match these brands with the countries where they were first built?

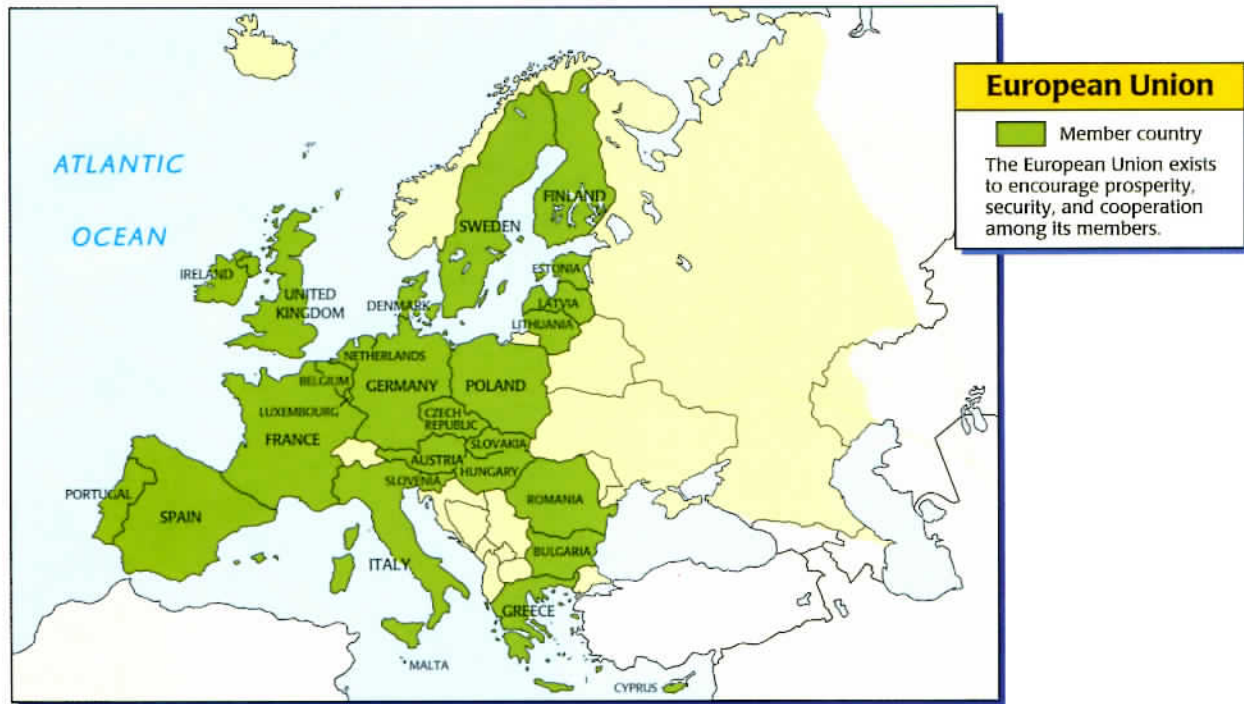


People per Car



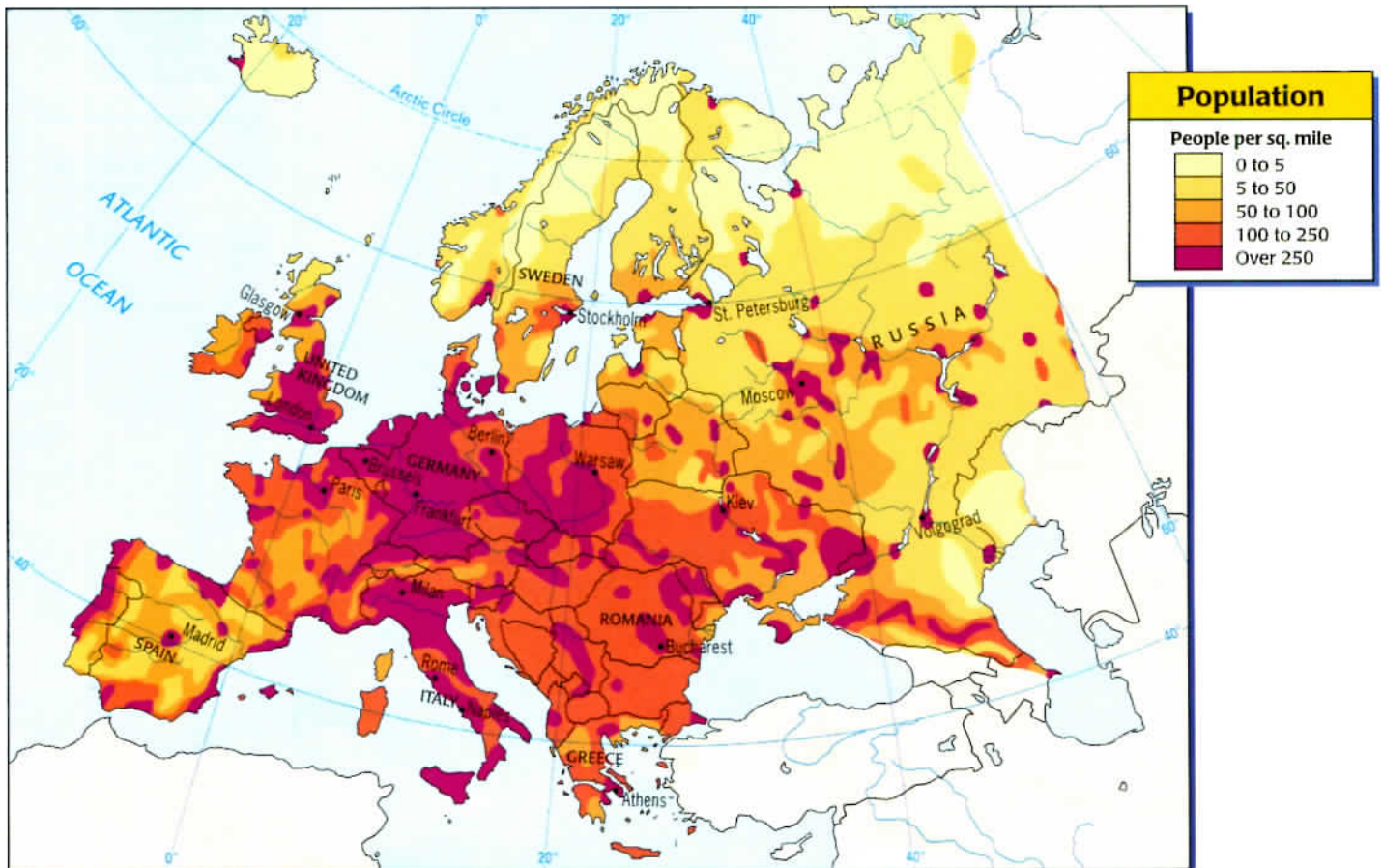
Washing machines are assembled in a German factory. Germany is also the largest car manufacturer in Europe.





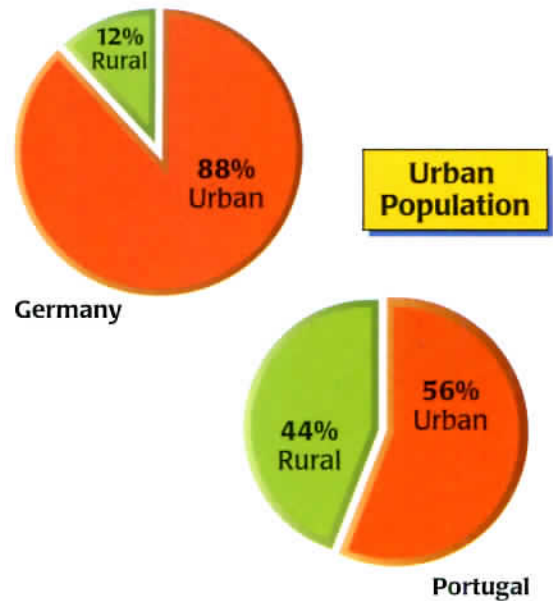
Parlez-vous Anglais?

English is the second-most widely spoken language in the world after Mandarin Chinese. About 400 million people use it daily. Another 300 million use it as their second language—often for business. French and Swedish executives may not speak each other's language, but both may speak English.





Rome's Colosseum was built almost 2,000 years ago, when Rome ruled the Mediterranean region and Western Europe. It is one of the world's most famous landmarks.



Focus on the United Kingdom

- Great Britain and Ireland are the main islands of the British Isles.
- The country called the United Kingdom consists of Scotland, England, Wales (all on Great Britain), and Northern Ireland.
- The southern part of the island of Ireland is a separate country.



Families and friends relax at a park near the center of Edinburgh, the capital of Scotland.





**Political Map
Russia
and Its Neighbors**

Boundary Symbols

- Continental boundary
- International boundary
- Former Soviet Union

City Symbols

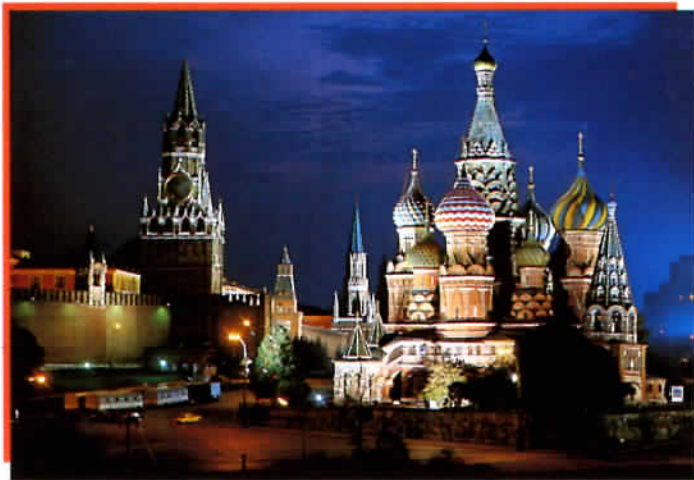
- Perm ●
- Vladivostok ●
- Verkhoyansk ●
- Moscow ⊙ National capital

Scale

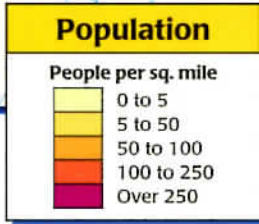
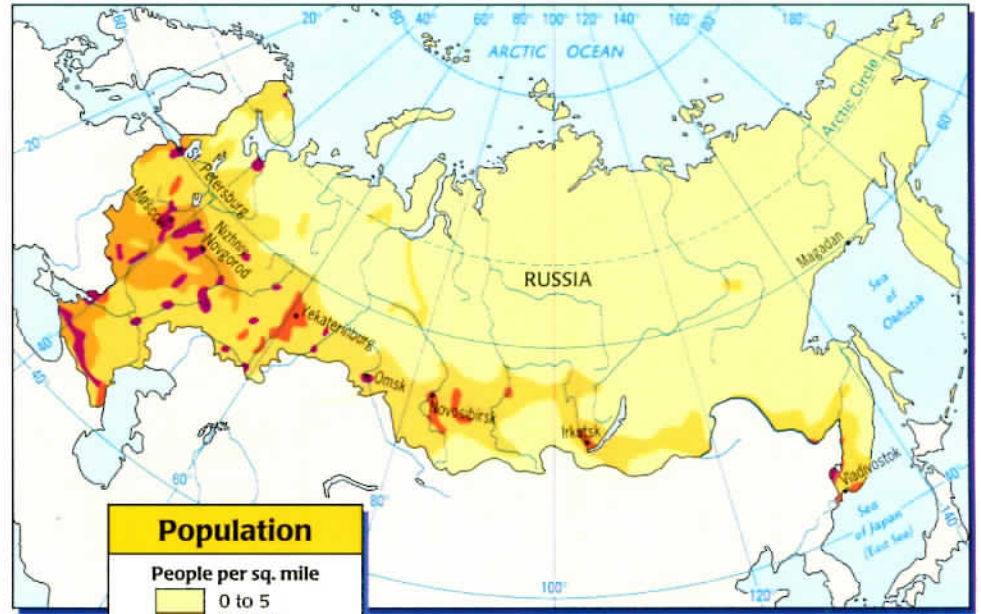
0 250 500 750 miles

1 inch stands for 519 miles

Detailed legend on page 3



The Russian Orthodox Cathedral of St. Basil is located in the heart of Moscow, Russia's capital.

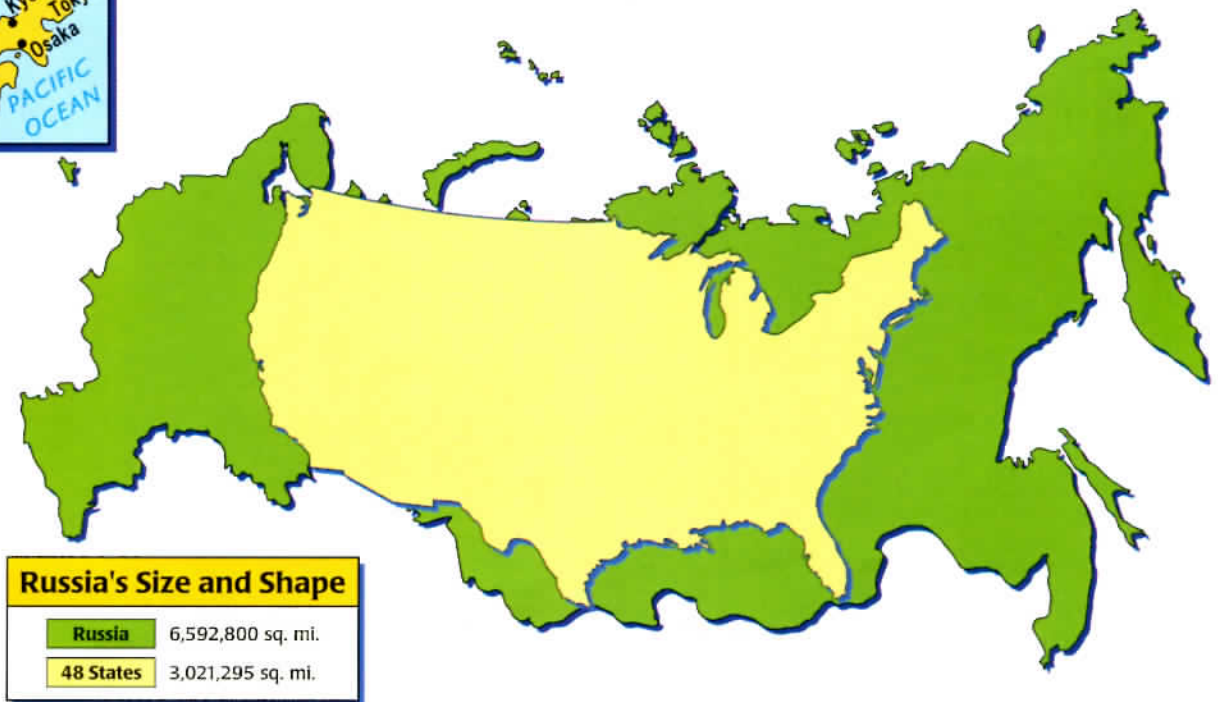


Soviet Union? What's That?

The Soviet Union, outlined to the left, was a superpower until 1991, when it broke up into 15 separate countries. One of them, Russia, is by far the largest country in the world.



Russia's Wheat Imports



Russia's Size and Shape

Russia	6,592,800 sq. mi.
48 States	3,021,295 sq. mi.



**Political Map
Middle East**

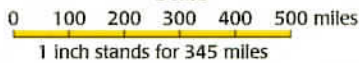
Boundary Symbols

- Continental boundary
- International boundary
- Other boundary (disputed or undefined)

City Symbols

- Alexandria ●
 - Mosul ●
 - Abadan ●
 - Jerusalem ⊙ National capital
- A city's relative size is shown by the size of its symbol and lettering.

Scale



Detailed legend on page 3

East of What?

In the 1800s European geographers used the terms *Near East*, *Middle East*, and *Far East* for regions east of Western Europe. *Middle East* is the only one still widely used. No other term means quite the same thing; the region around the eastern Mediterranean Sea and the Persian Gulf.

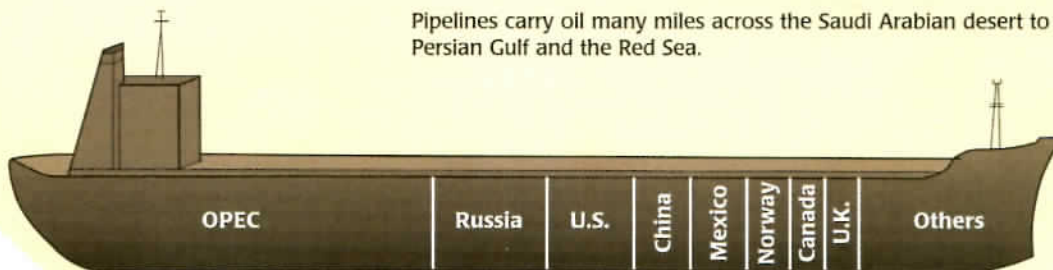


Focus on Oil and OPEC

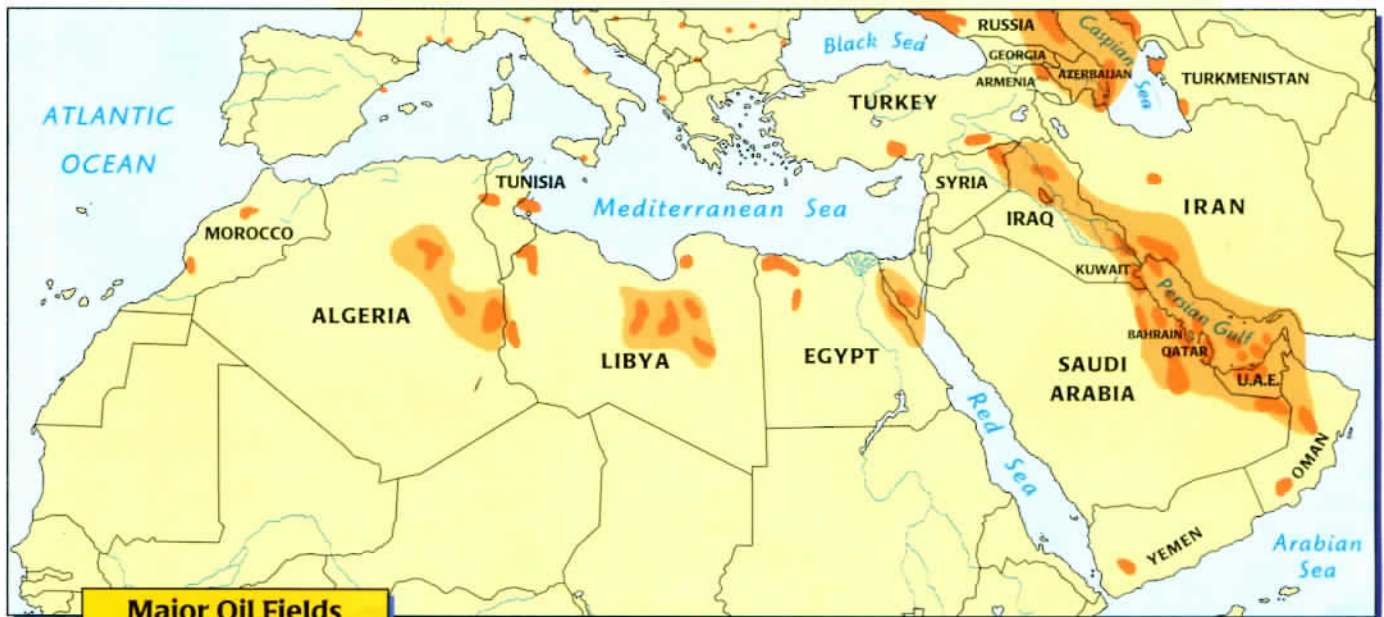
- Much of the world's oil is produced by OPEC—the Organization of Petroleum Exporting Countries.
- OPEC members Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates are all on the Persian Gulf.
- OPEC also includes Algeria, Libya, Nigeria, Angola, Ecuador, and Venezuela.

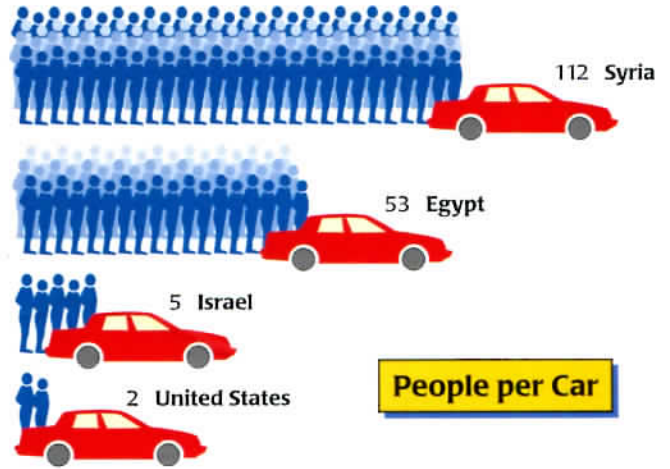
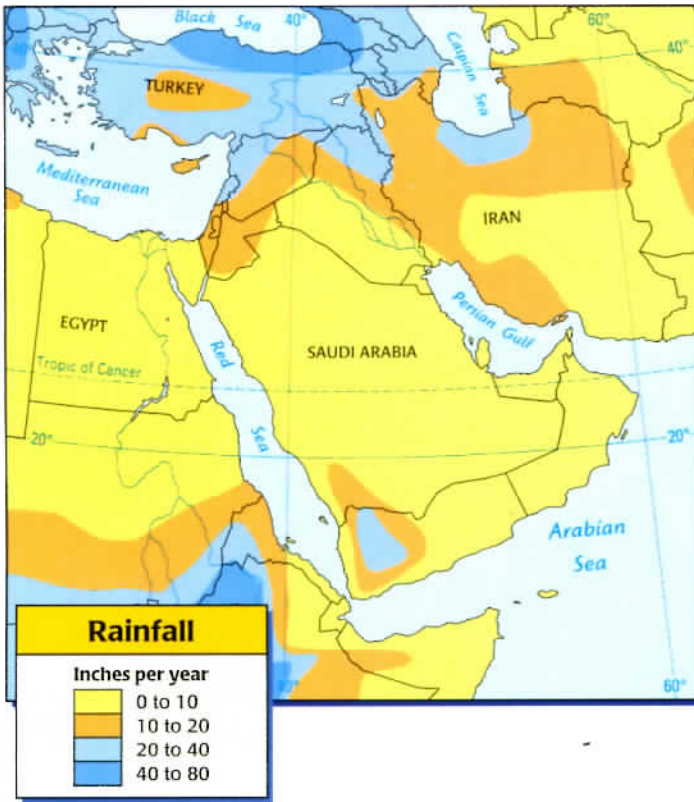


Pipelines carry oil many miles across the Saudi Arabian desert to ports on the Persian Gulf and the Red Sea.



Leading Oil Producers





How Can Salt Water Help?

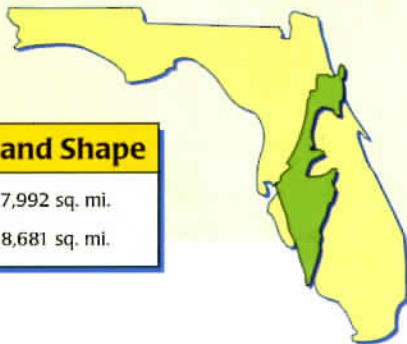
Towing icebergs to the Middle East for fresh water is a tempting but very expensive idea. Instead, oil-rich countries here operate de-salting (*desalination*) plants that turn sea water into fresh water.

Focus on Israel's Changing Shape

- In 1967 Israel seized parts of Egypt, Jordan, and Syria during the Six Day War.
- Israel returned the Sinai Peninsula to Egypt in stages during 1975, 1979, and 1982.
- In 1994 Palestinians began administering the Gaza Strip and most of the West Bank.
- In 2005 Israel's government voted to remove Israeli settlements from Gaza Strip and the West Bank.

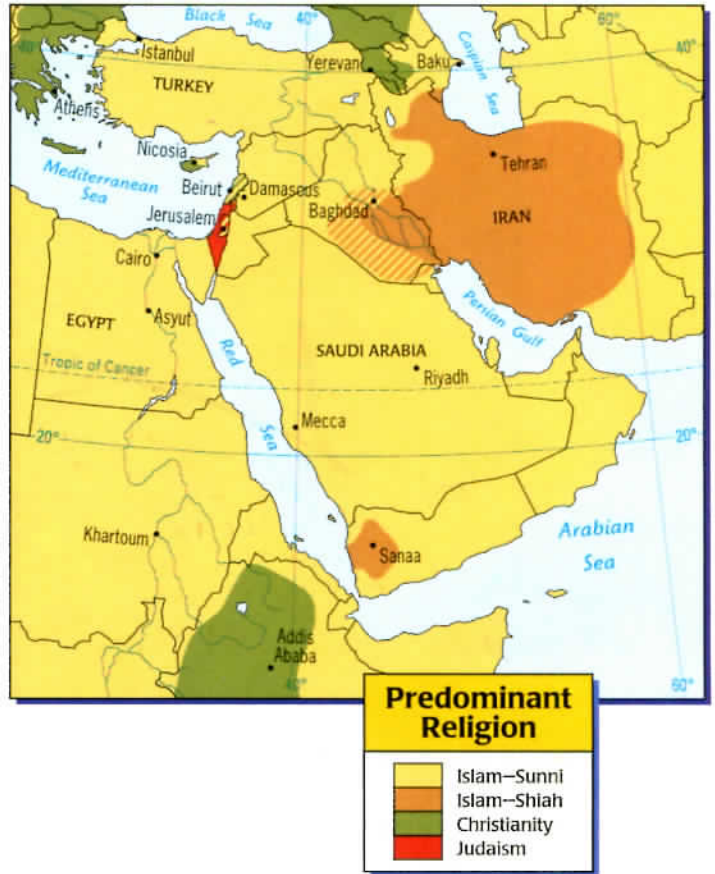
Israel's Size and Shape

 Israel	7,992 sq. mi.
 Florida	58,681 sq. mi.






Jerusalem's Western Wall is all that remains of Judaism's ancient Temple. The nearby Dome of the Rock is the city's holiest Islamic shrine. Jerusalem is also a holy city for Christians.










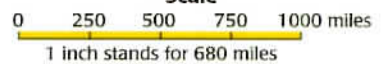
Land Cover Map Asia

- | | | | |
|---|---|---|---|
|  |  |  |  |
| Cropland | Grassland | Tundra | Glacier |
|  |  |  |  |
| Semi-desert & desert | Tropical rain forest | Broadleaf forest | Needleleaf forest |

Boundary Symbols

-  International boundary
-  Other boundary (disputed or undefined)
-  Small country

Scale



Detailed legend on page 3





Political Map Asia

Boundary Symbols

- International boundary
- - - Other boundary (disputed or undefined)
- Small country

City Symbols

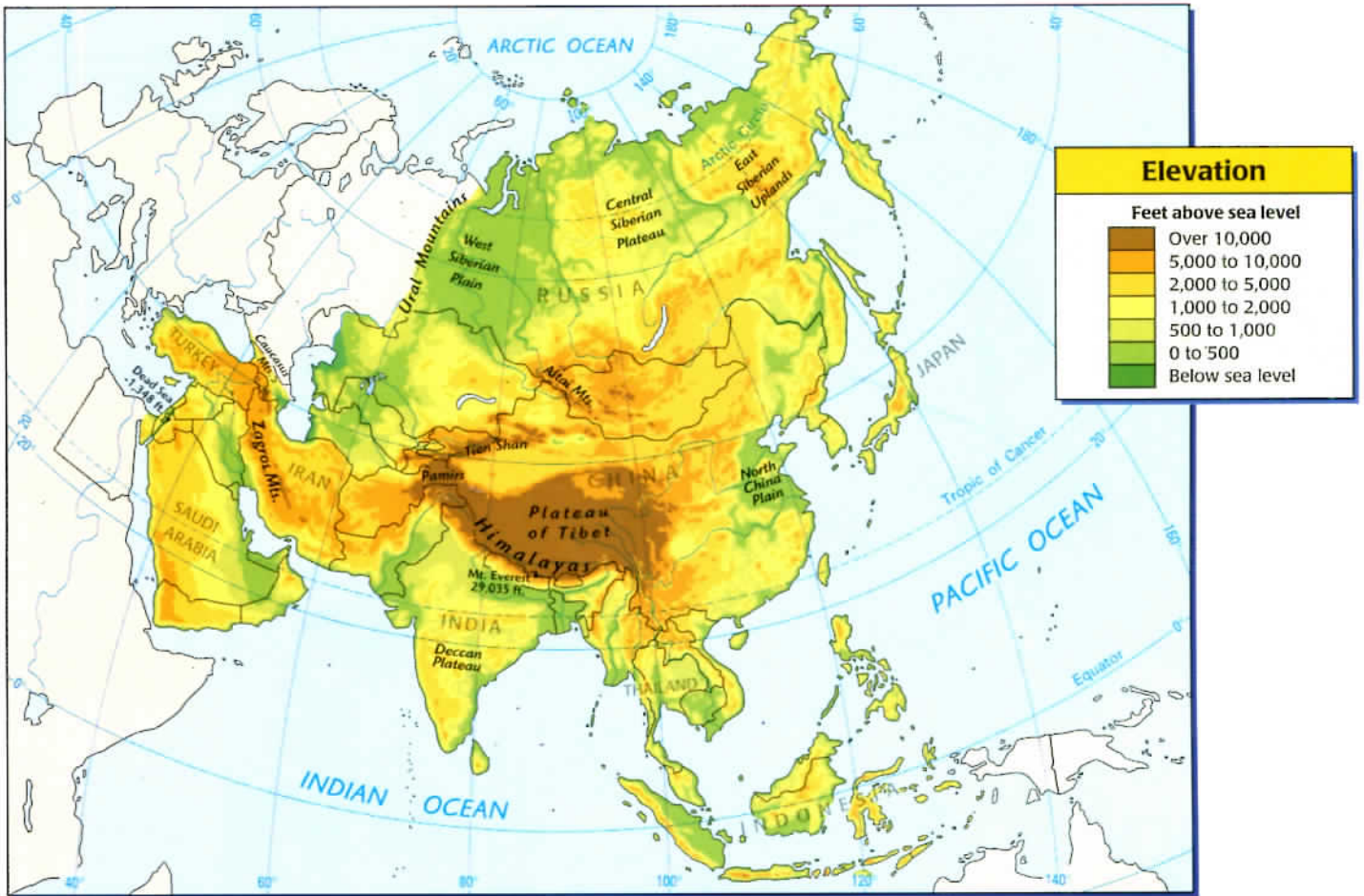
- Karachi ●
- Vladivostok ●
- Aden ●
- A city's relative size is shown by the size of its symbol and lettering.
- Tokyo ⊗ National capital

Scale

0 250 500 750 1000 miles

1 inch stands for 680 miles

Detailed legend on page 3



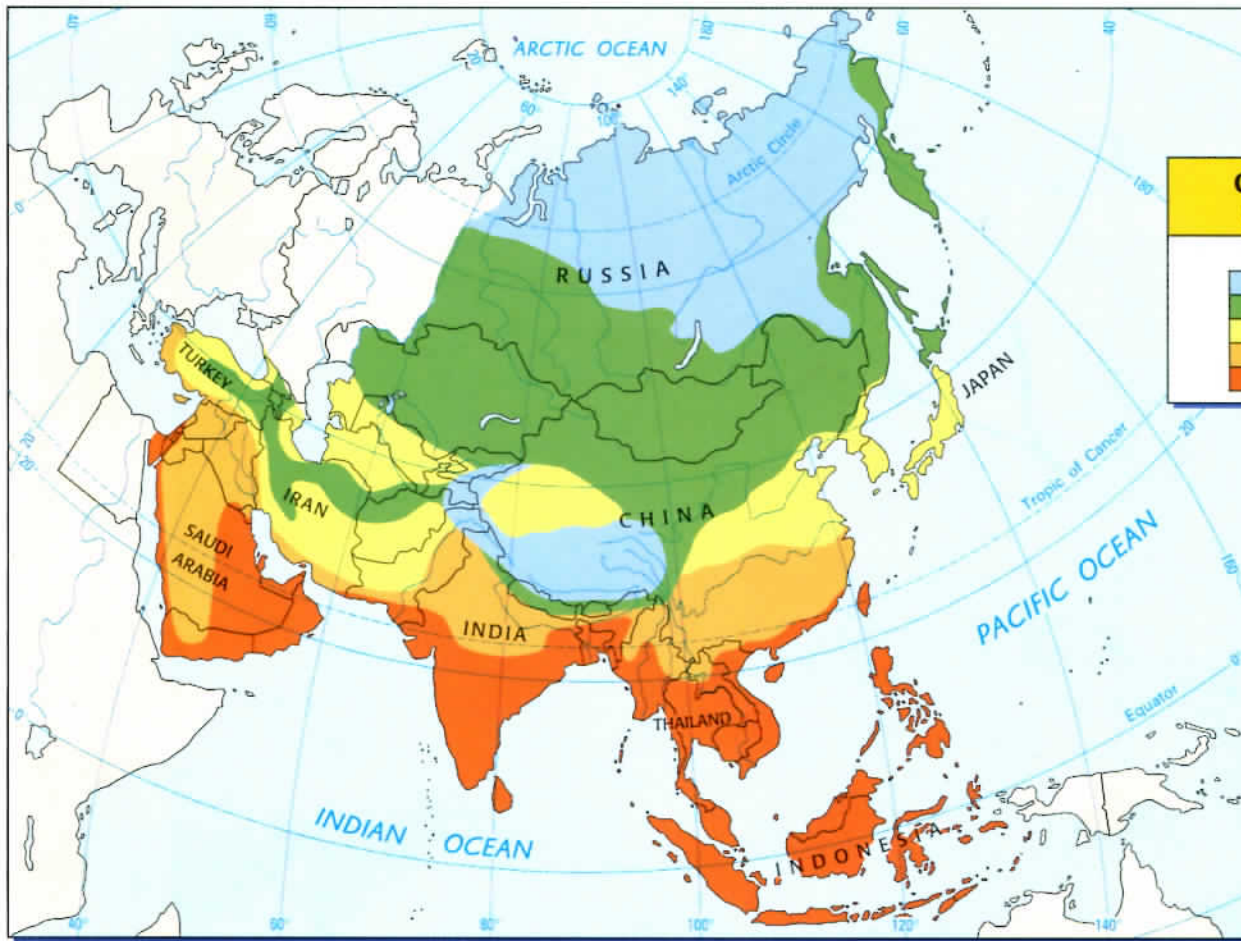
Focus on the Roof of the World

- The Himalayas are the world's highest mountain range.
- They form a massive barrier along northern Pakistan, India, Nepal, and Bhutan.
- To their north is China's high, dry Plateau of Tibet—the world's highest plateau.



A glacier flows down a valley in the Himalayas. In Sanskrit, the ancient language of India, *Himalaya* means "House of Snow."





Growing Season

Months

- Under 3
- 3 to 6
- 6 to 8
- 8 to 12
- All year



Buddhist monks get ready to perform traditional music in Kathmandu, Nepal.

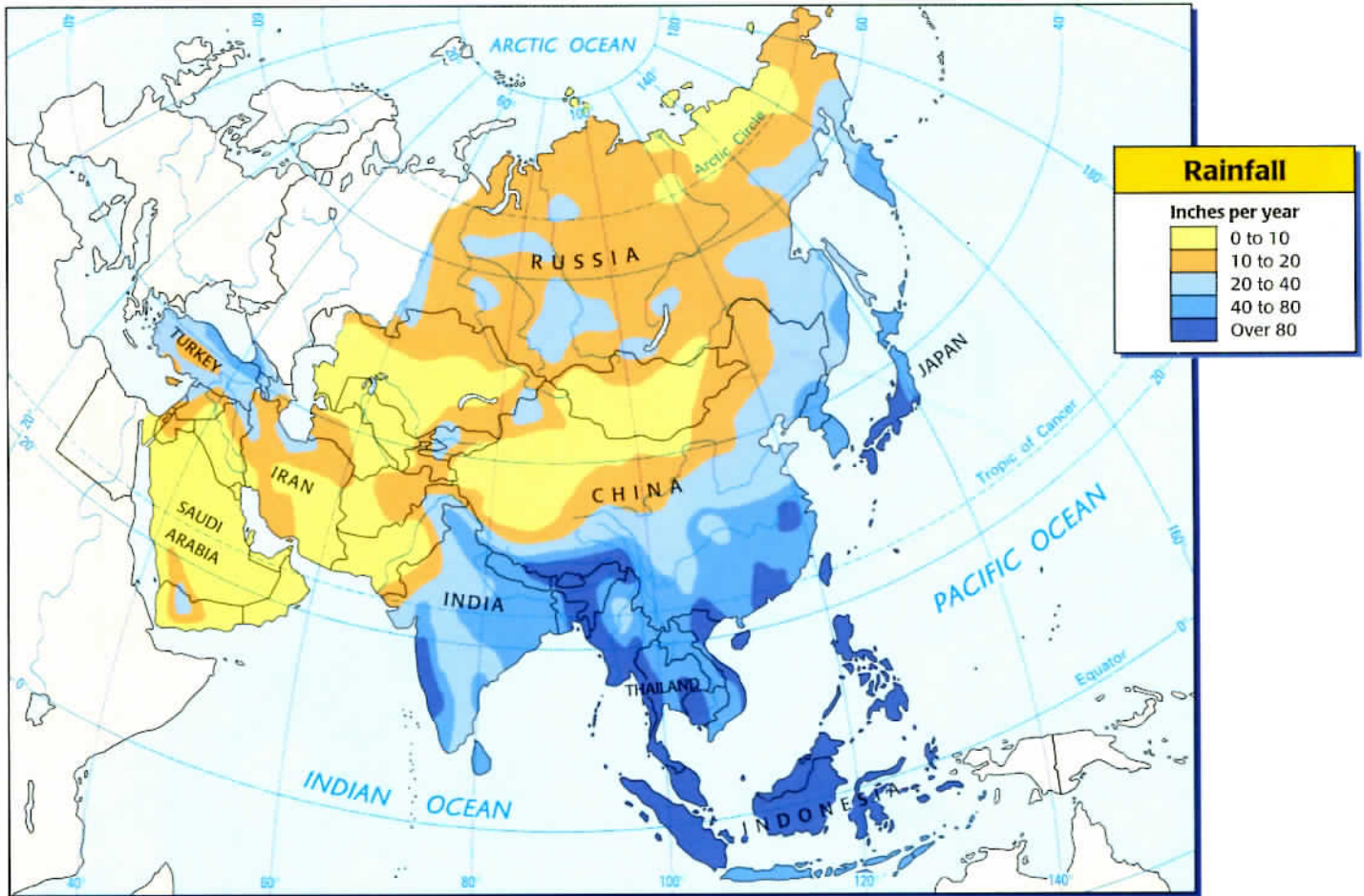


Elevation Cross Section

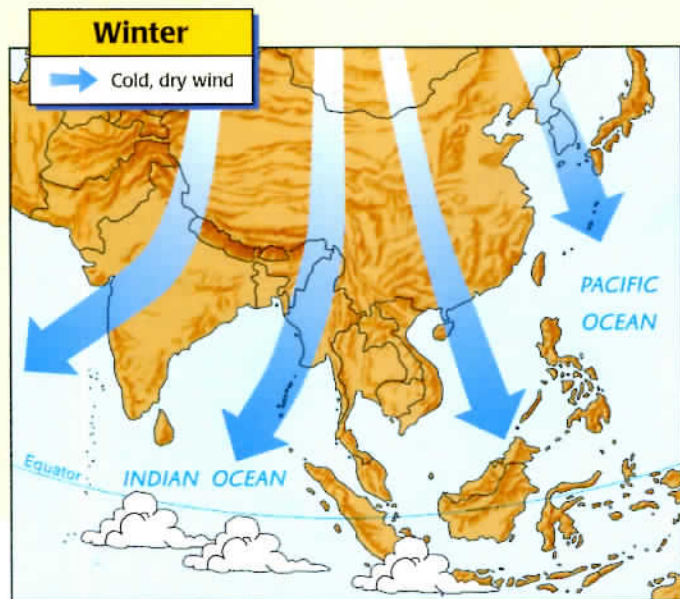
Feet above sea level

- Over 10,000
- 5,000 to 10,000
- 2,000 to 5,000
- 1,000 to 2,000
- 500 to 1,000
- 0 to 500

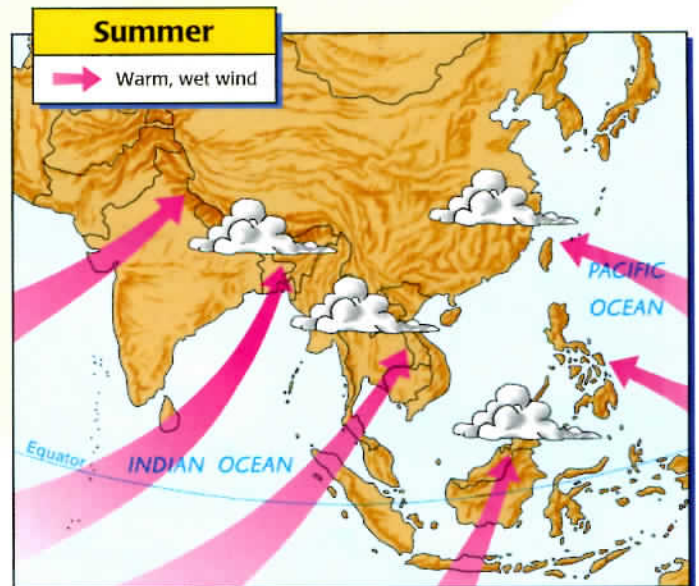




Focus on Monsoons



- Seasonal winds called *monsoons* control southern Asia's climate.
- Dry winter winds blow from central Asia toward the sea, keeping rain clouds away.
- In summer, the winds reverse. Wet ocean air rushes inland and brings torrents of rain.



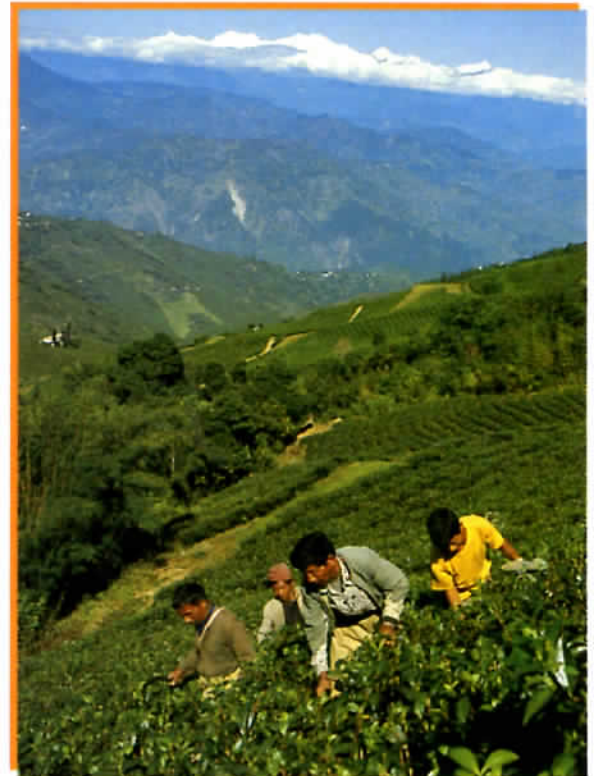


Japan's Size and Shape

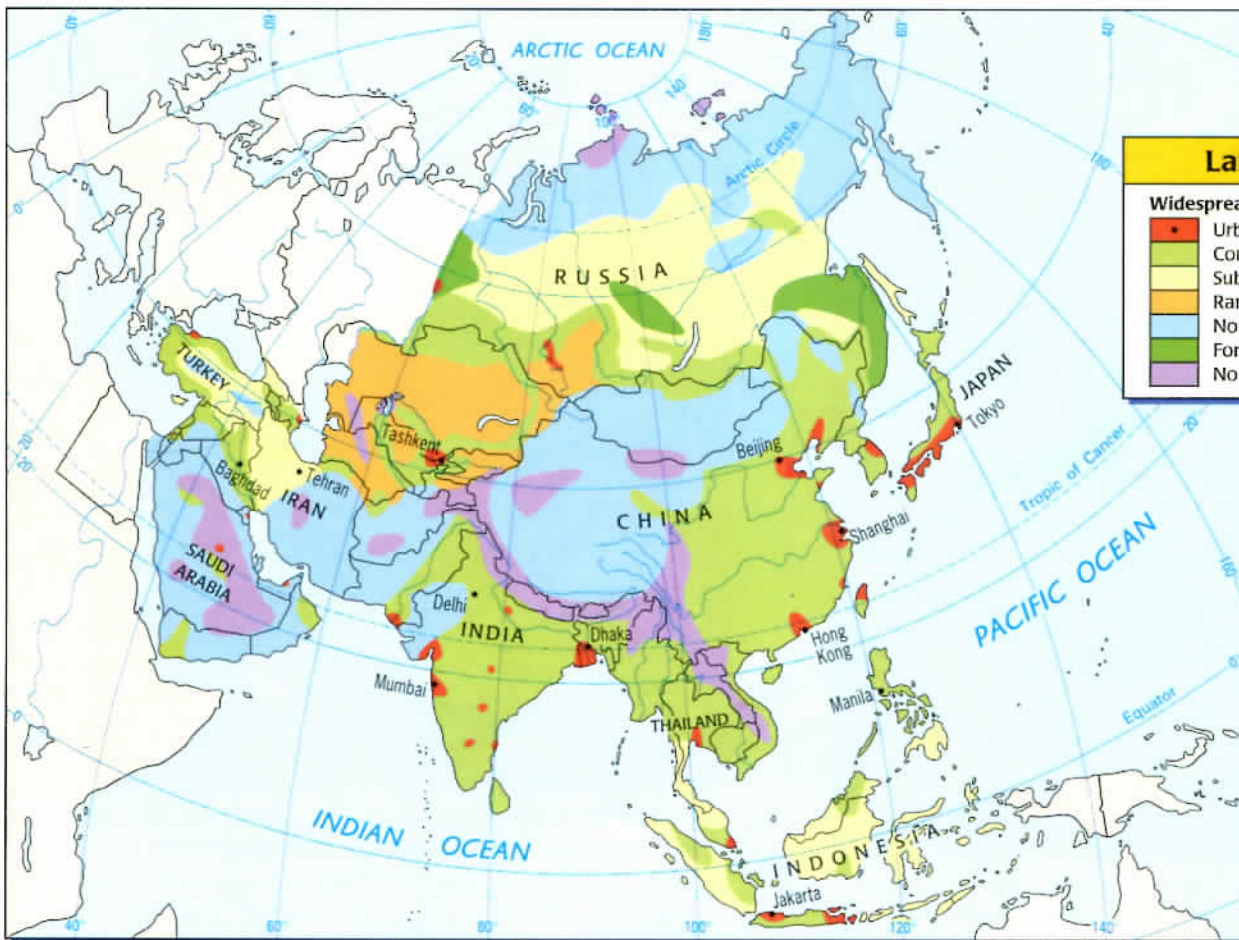
Japan	145,883 sq. mi.
48 States	3,021,295 sq. mi.



Japan's Wheat Imports



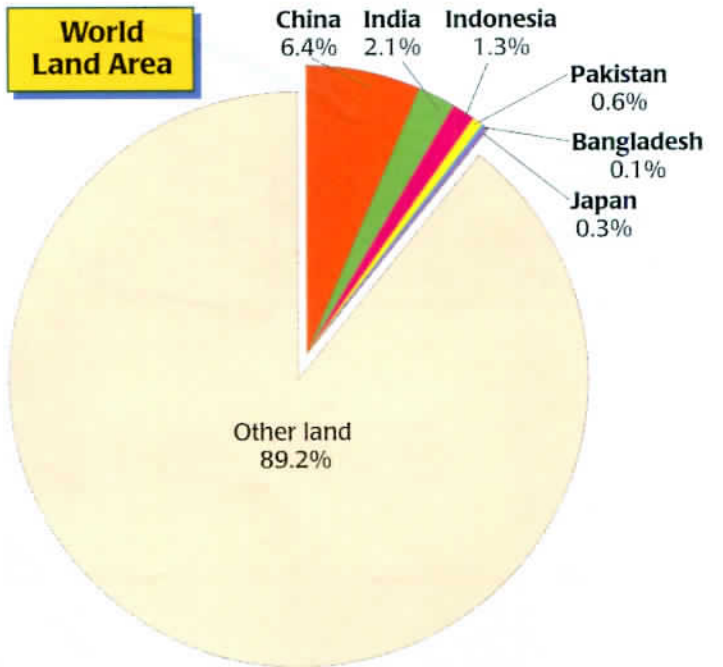
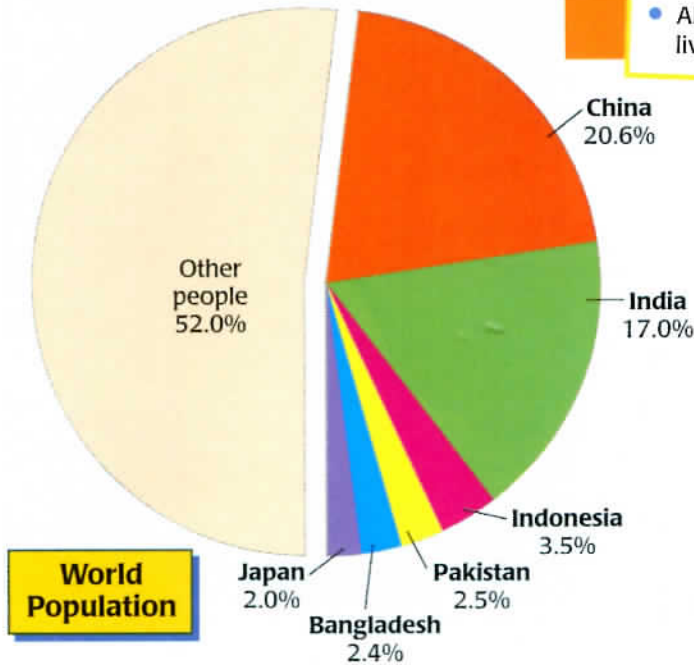
On a tea plantation in northern India, weeding is done by hand.



Land Use	
Widespread economic uses	
Urban	(Red square)
Commercial farming	(Light green square)
Subsistence farming	(Yellow-green square)
Ranching or herding	(Orange square)
Nomadic herding	(Light blue square)
Forestry	(Dark green square)
No widespread use	(Purple square)

Focus on Crowded Countries

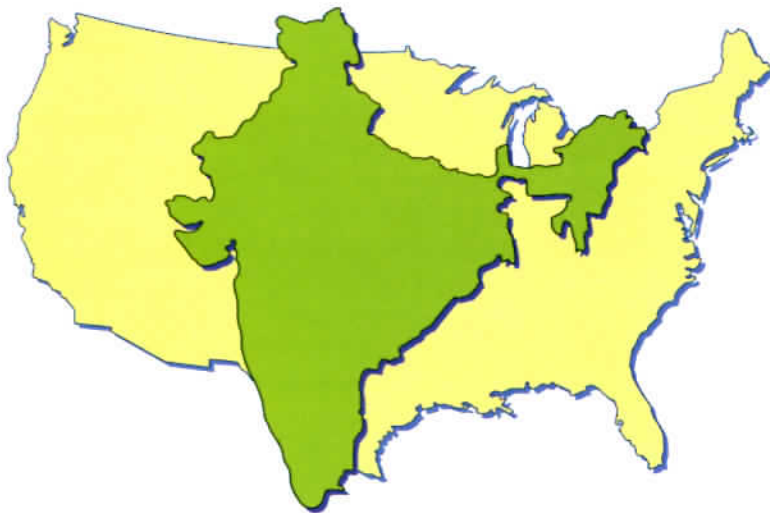
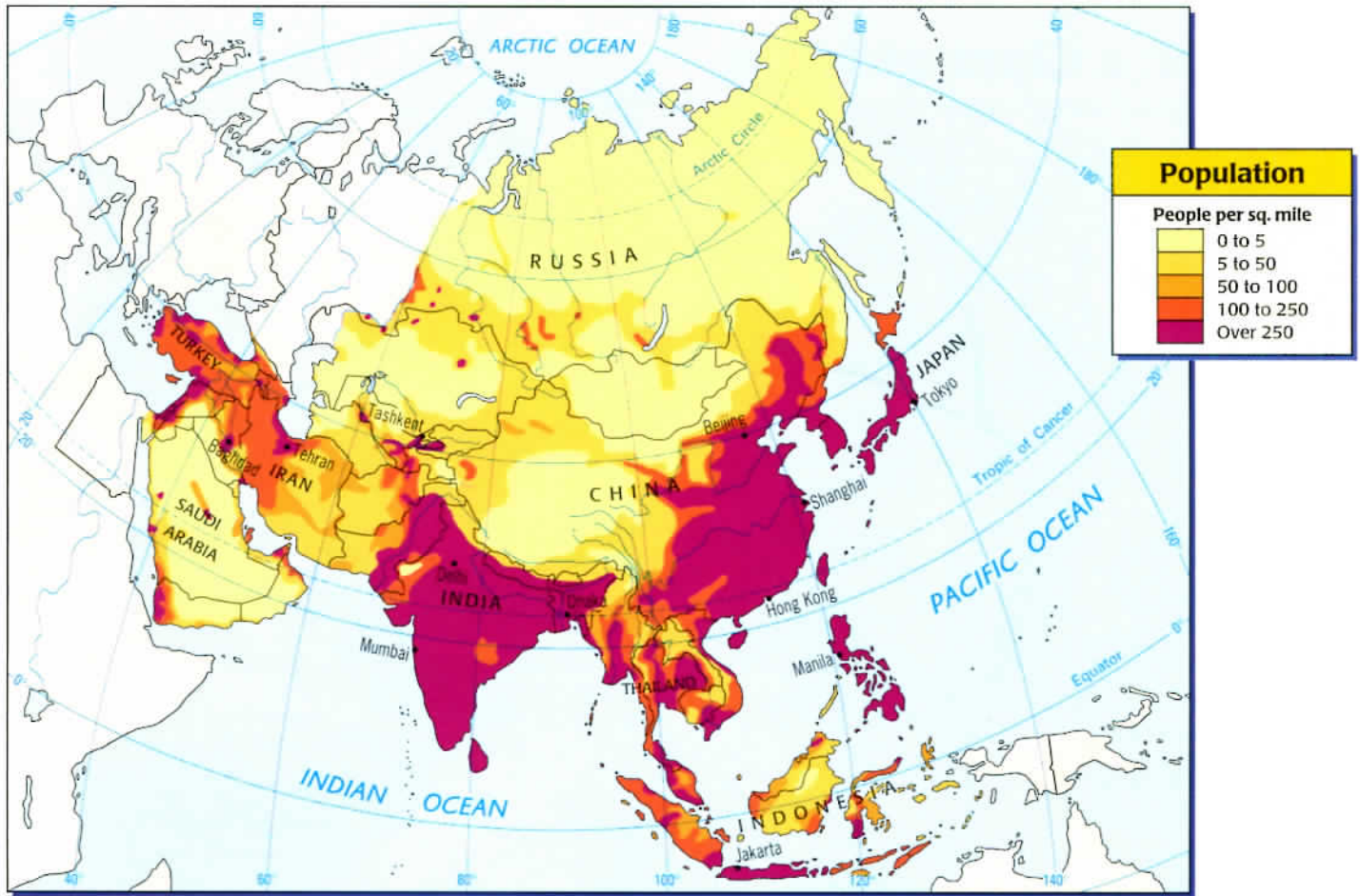
- Southern and eastern Asia are among the world's most crowded regions.
- Six Asian countries have nearly half the world's population. Yet they occupy less than 11% of the world's land.
- Although Asia has many giant cities, most of its people still live in rural areas.



Throng of people shop along Nanjing Road in Shanghai. About 17 million people live here, the largest of eastern China's many immense cities.



More than 70% of India's population lives away from urban areas. In western India, camels are bought and sold at rural fairs.

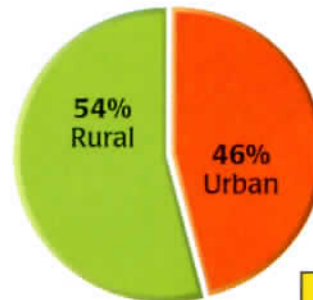


India's Size and Shape

India	1,222,243 sq. mi.
48 States	3,021,295 sq. mi.

Where Can You Find a Billion?

India has the second-largest population in the world, after China. With about one billion citizens, India has 3½ times as many people as the United States.



Indonesia's Urban Population

Focus on a Giant of Trade



**Political Map
China
and Taiwan**

Boundary Symbols
 - - - - - International boundary
 - - - - - Other boundary (disputed or undefined)

City Symbols
 ● A city's relative size is shown by the size of its symbol and lettering.
 ○ National capital

Scale
 0 200 400 600 800 miles
 1 inch stands for 552 miles

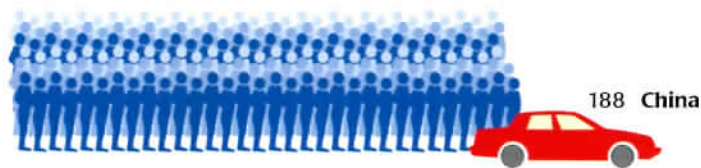
Detailed legend on page 3

- China's government began to allow greater economic freedom in the 1970s.
- It is now the second-largest exporter of manufactured goods in the world.
- Rapid migration from farms to industrial cities has forced China to import food.



These stacks of containers in Shanghai will be loaded onto cargo ships. Most exports from China leave through eastern seaports.



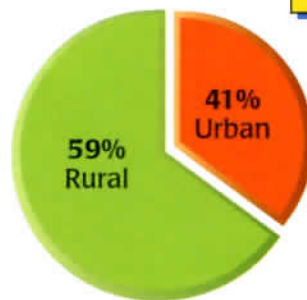


People per Car

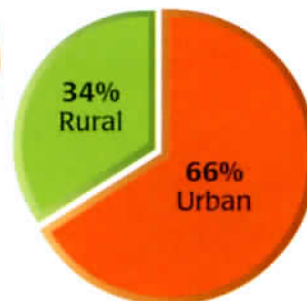
Made in Japan?

Japan has few natural resources. But by using imported raw materials, it has become a leading manufacturing country known for its cars and high-technology products.

Urban Population



China



Japan





**Political Map
Australia
and Its Neighbors**

Boundary Symbols

- International boundary
- - - State or territory boundary
- Small country

City Symbols

- Sydney
- Malang
- Darwin
- ⊙ Canberra

A city's relative size is shown by the size of its symbol and lettering.

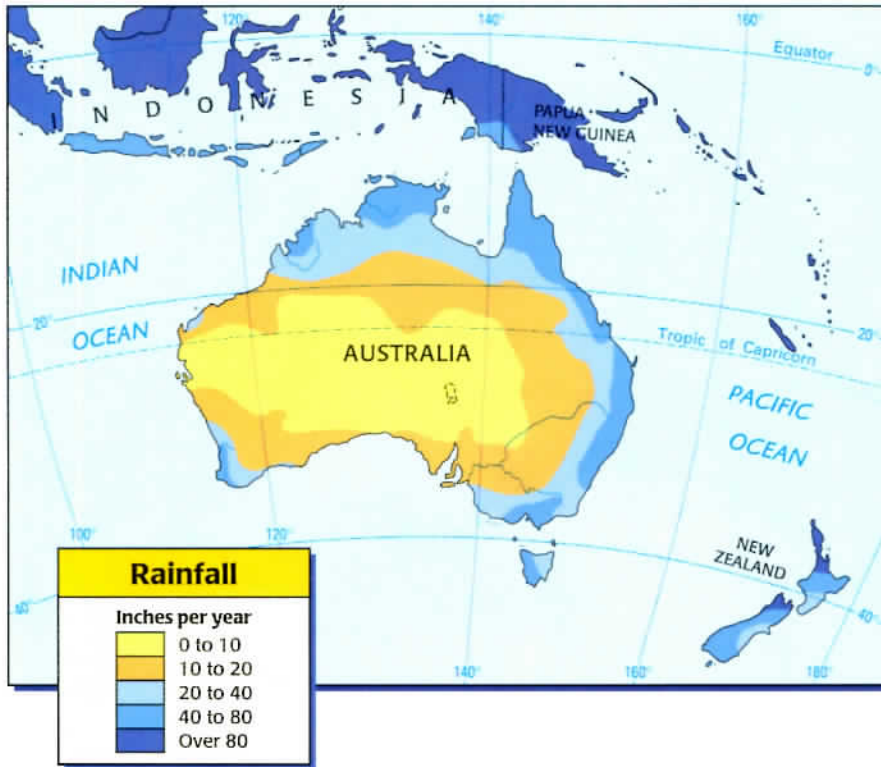
⊙ National capital

Scale

0 250 500 750 miles

1 inch stands for 520 miles

Detailed legend on page 3



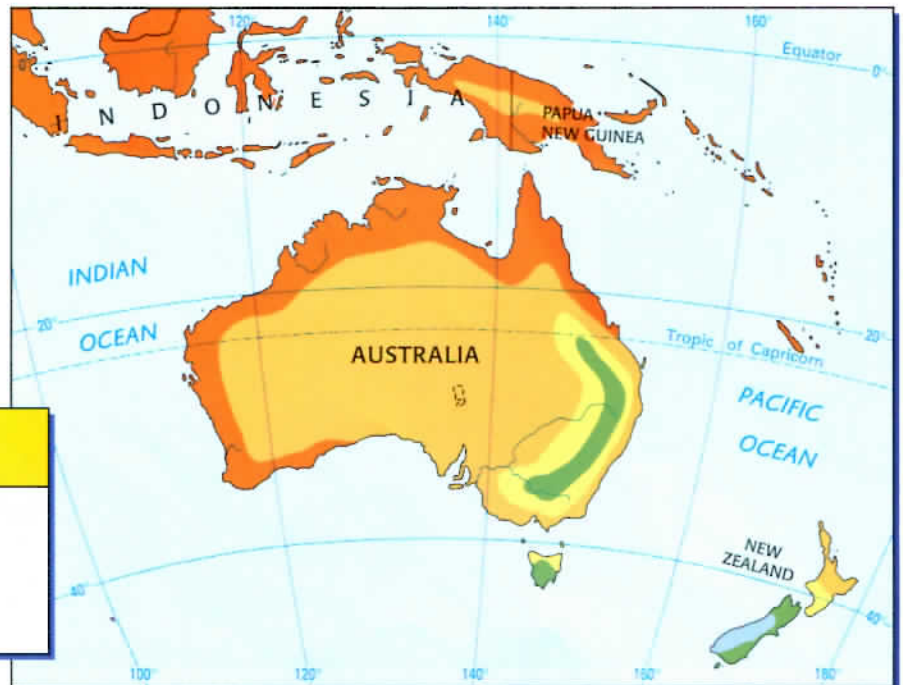
The rain forest of Papua New Guinea is hot and wet all year long.



Only three countries have more geysers than New Zealand. Dozens of geysers can be found on North Island.

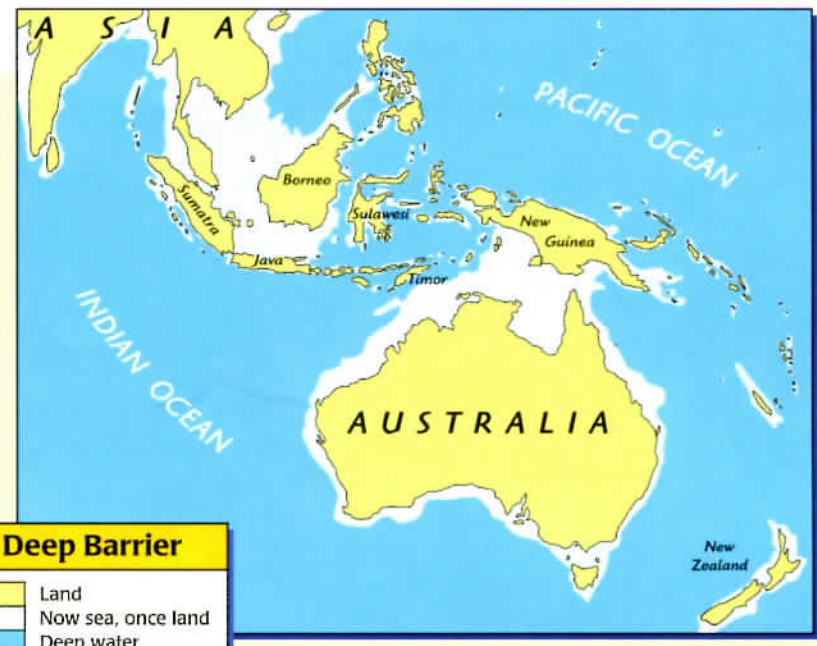
You Mean It Gets *That* Cold?

Dry desert regions cool off quickly when the sun goes down. It is said that the Aborigines of the Australian desert talked of a "three-dog-night"—a night so cold you had to curl up with three dogs to stay warm.



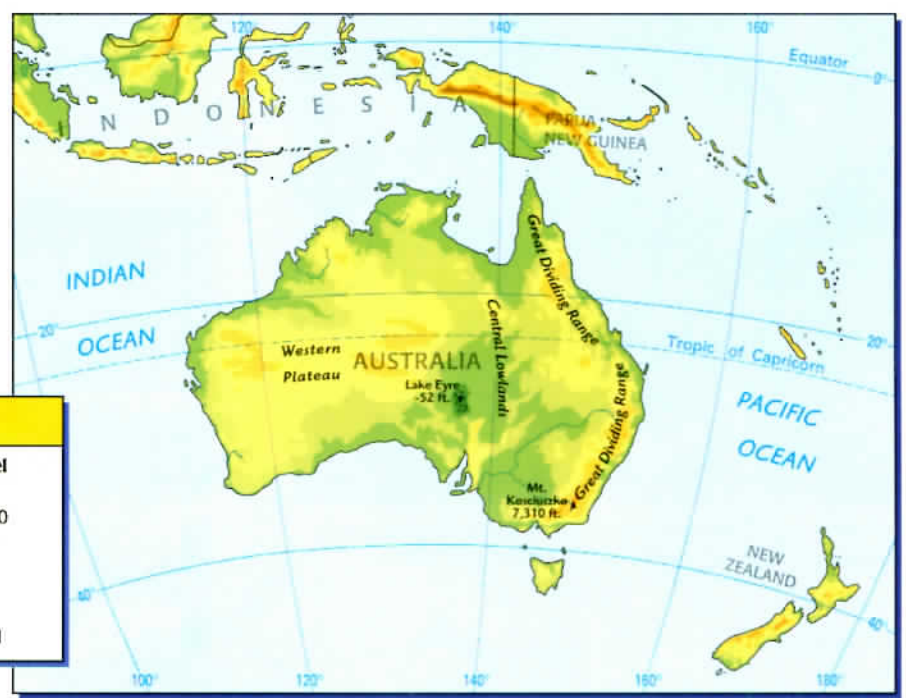
Focus on Australia's Isolation

- Sea level dropped during the Ice Ages, exposing land between most continents. Animals crossed from continent to continent on the exposed land.
- But Asian species never reached Australia. Deep seas east of Borneo remained a watery barrier.
- As a result, many Australian animals and plants developed in unique ways.

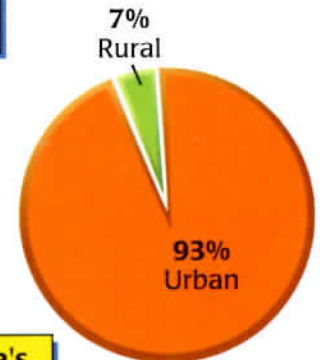


Australia is home to a variety of marsupials, animals that carry their young in pouches.

Distances from Sydney



Elevation	
Feet above sea level	
Over 10,000	
5,000 to 10,000	
2,000 to 5,000	
1,000 to 2,000	
500 to 1,000	
0 to 500	
Below sea level	



Australia's Urban Population

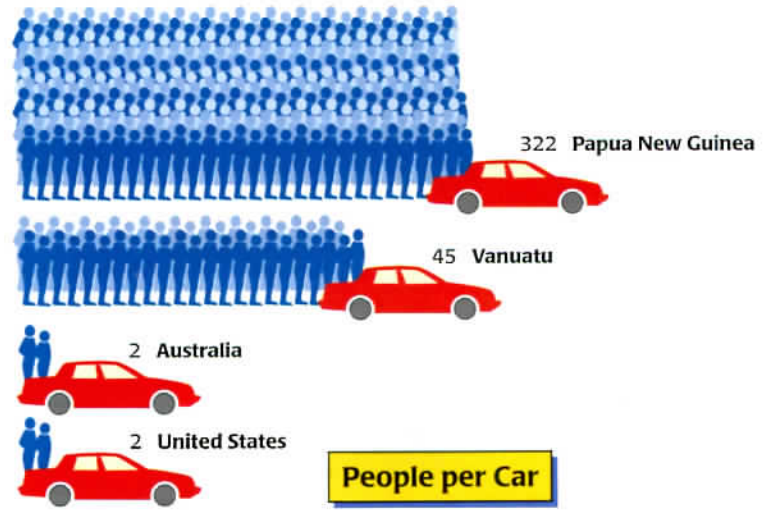


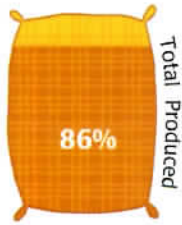
Australia's Size and Shape

Australia	2,978,000 sq. mi.
48 States	3,021,295 sq. mi.

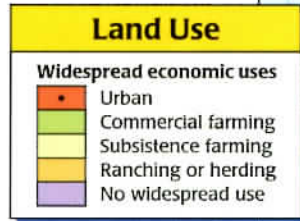


Sydney's skyscrapers can be seen across Darling Harbour. Australia's largest cities are located along the coast.





**Australia's
Wheat Exports**



Focus on People of the Pacific

- People first settled the Pacific islands about 60,000 years ago.
- In simple boats, they sailed from island to island across the ocean.
- They probably came from Asia. But one theory is that Easter Island was reached from South America.



The traditional canoes of Micronesia are made from painstakingly hollowed-out logs.





**Political Map
Pacific Rim**

Boundary Symbols

- Continental boundary
- International boundary
- - - - Other boundary (disputed or undefined)
- Small country

City Symbols

- A city's relative size is shown by the size of its symbol and lettering.
- National capital

Scale at Equator

0 1000 2000 3000 miles

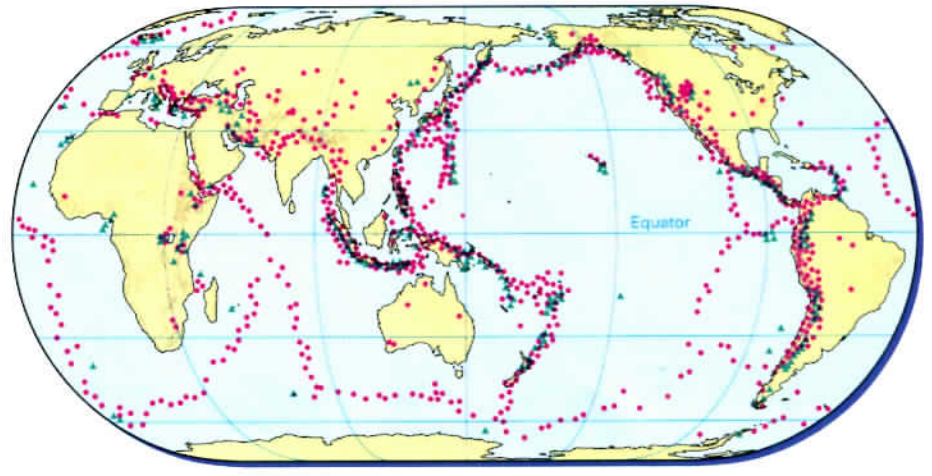
1 inch stands for 1792 miles

Detailed legend on page 3

Ring of Fire

The "ring of fire" is the belt of frequent volcanic and seismic activity that surrounds the Pacific Ocean.

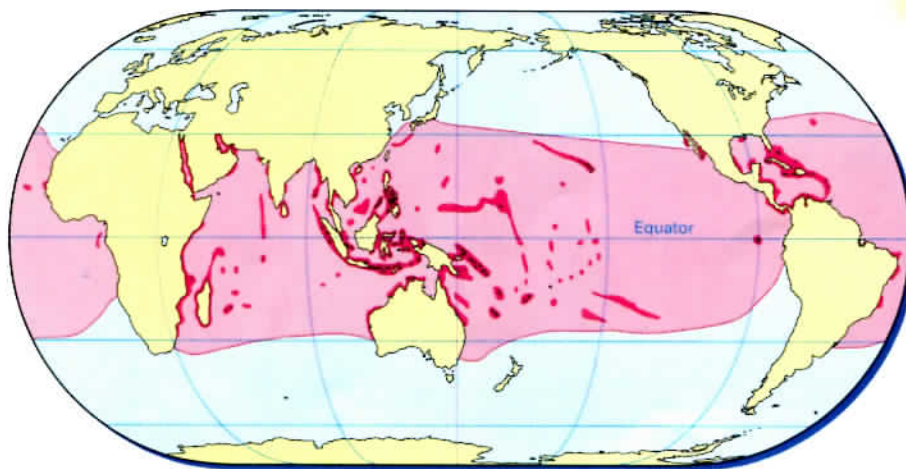
- Major earthquakes
- Major volcanoes





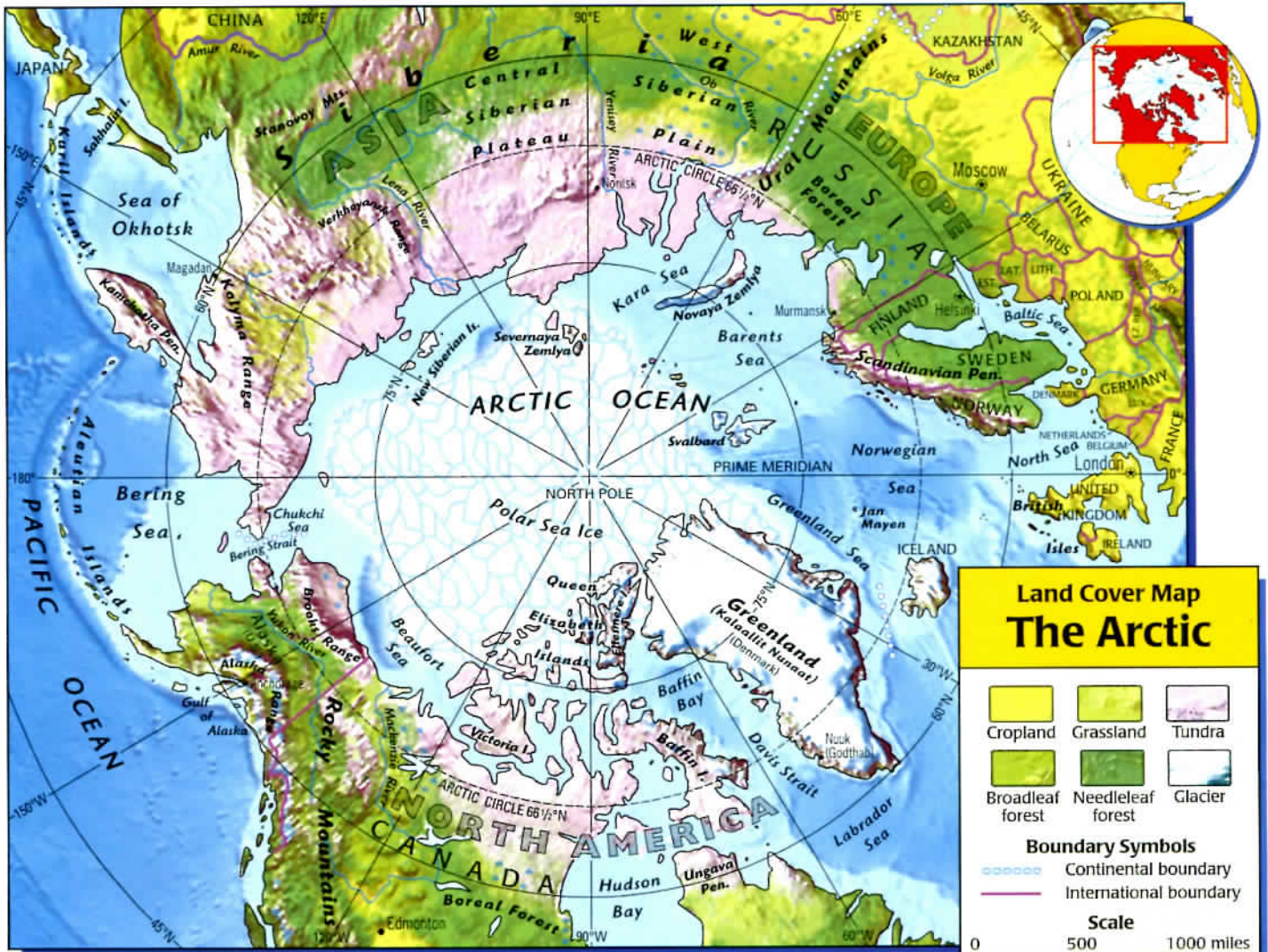


These Rocks Are Alive?

Coral is the rock-like substance formed by the outer skeletons of tiny sea animals. Their skeletons fuse as new coral colonies grow on top of old ones. In time, enough coral builds up to form a reef or an island.



Coral Reefs	
	Coral reef
	Warm zone where reefs can form



Focus on the Frozen North



- Land that is frozen much or all of the year is called *permafrost*.
- Seasonal permafrost becomes deep mud in summer, threatening roads and buildings.

Traditional fur clothing helps protect hunters in northern Canada from the dangerous Arctic cold.

Permafrost

- Continuous permafrost
- Scattered permafrost

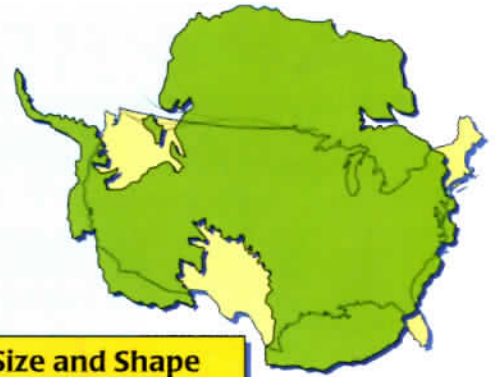


Focus on the Cold Continent



Penguins are numerous along Antarctica's coast. Only insects live in the harsh interior.

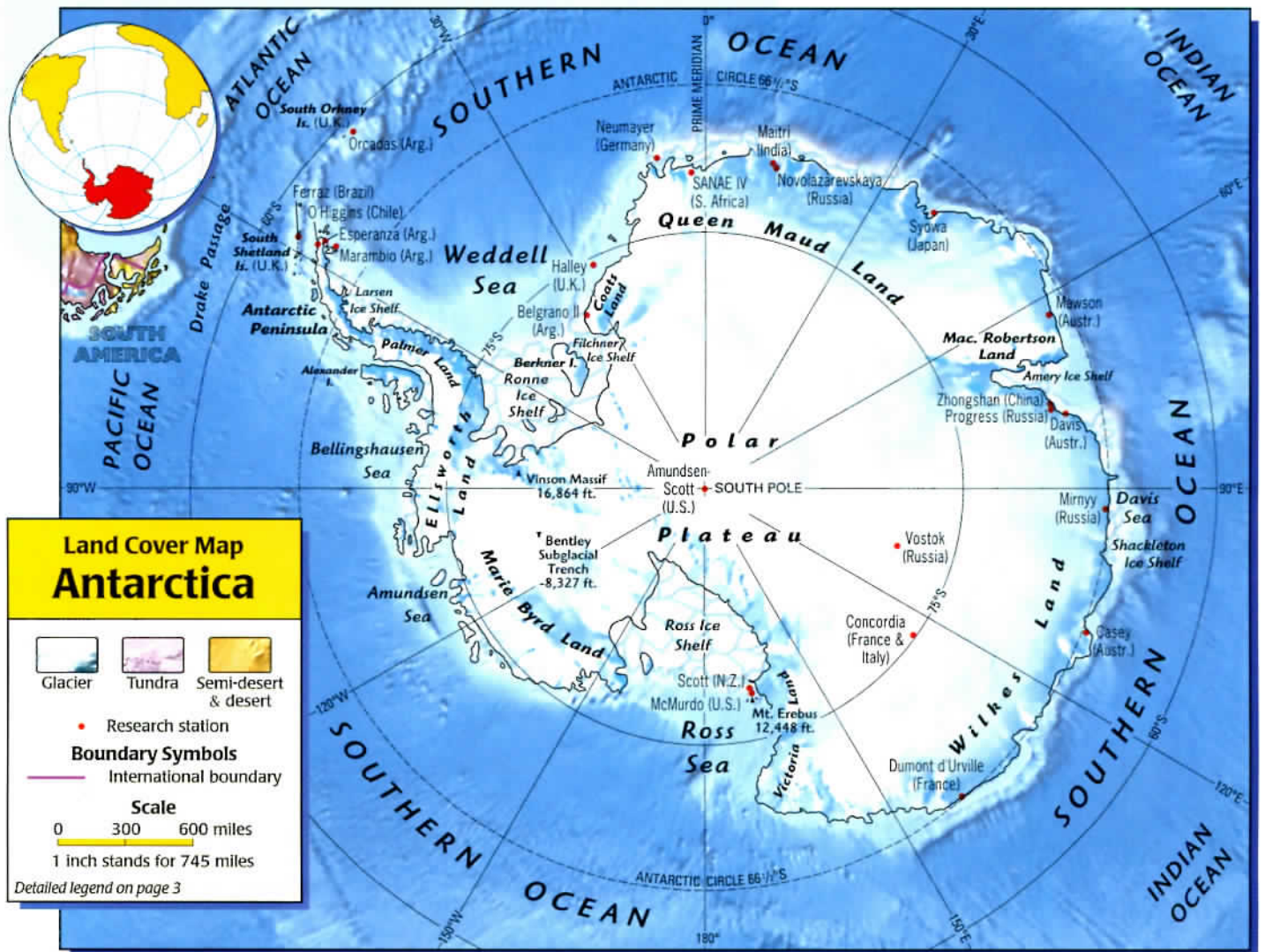
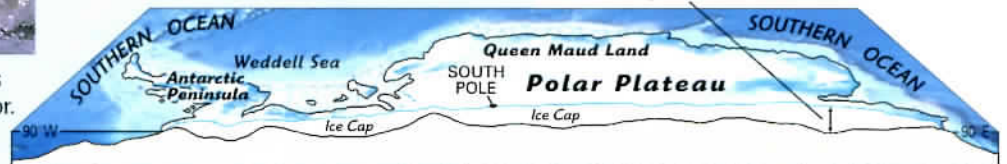
- Ice and snow cover 98% of Antarctica.
- Away from the coast, it is too cold and dry for most living things.
- Antarctica's ice cap holds 70% of the world's fresh-water supply.



Size and Shape	
Antarctica	5,400,000 sq. mi.
48 States	3,021,295 sq. mi.

Cross Section

The ice cap on the Polar Plateau is up to 2½ miles thick.



MAP PROJECTIONS

Map projections are the means by which the curved surface of the earth is transferred to the flat surface of a map. There are an infinite number of map projections, but none is as accurate as a globe. Because the earth is a sphere, a globe is its only perfect model. A globe simultaneously shows accurate shapes, sizes, distances, and directions. No world map shows all four of these properties accurately. Every world map distorts at least one of them.

The projections shown here belong to three categories.

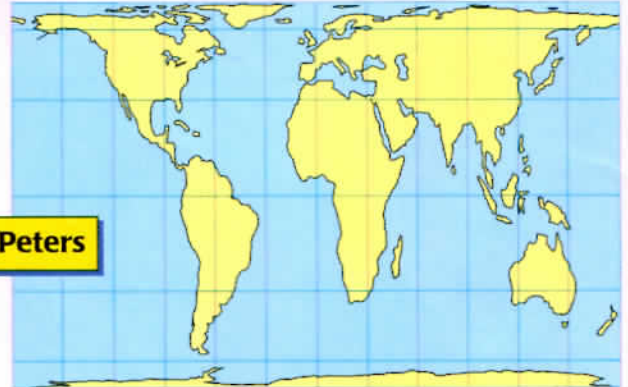
- **Conformal projections** show true shapes, but distort sizes. (You can remember this term's meaning by associating shape with the word *form* in conformal.)
- **Equal-area projections** show all areas in their true relative sizes, but distort shapes.
- **Compromise projections** allow some size distortions in order to portray shapes more accurately. In all types of world maps, distortion is generally least near the center and greatest at the edges.



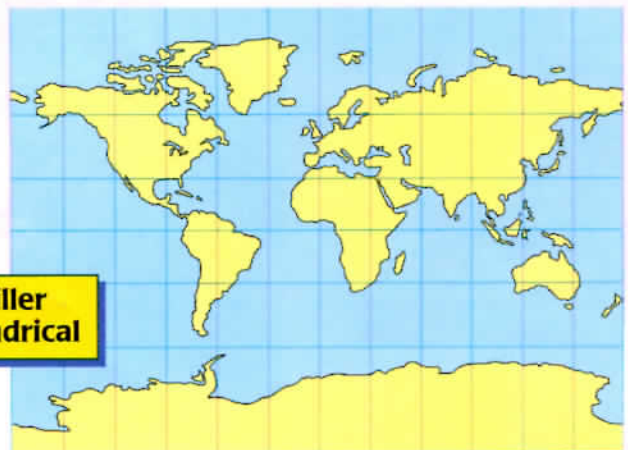
First published in 1569, the **Mercator** is a *conformal* projection. The poles are shown not as points, but as lines the same length as the Equator. The result is extreme size distortion in the higher latitudes. The Mercator was designed for navigation, and the true compass direction between any two points is shown by a straight line.



The **Armadillo** is a *compromise* projection intended to give young students the impression of a map being peeled from a globe. Because its unique appearance causes severe distortions, especially at the outer edges, it is seldom used outside the classroom.



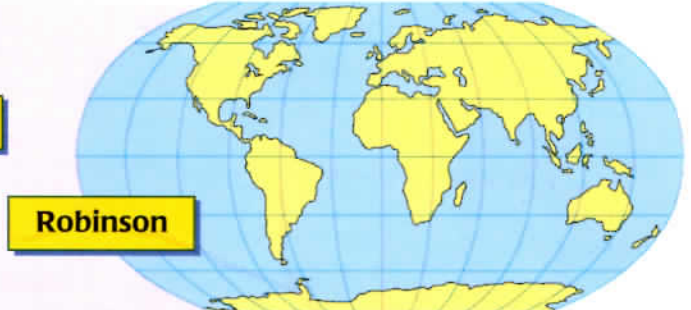
An *equal-area* projection first produced in the 1850s, the **Gall-Peters** greatly distorts shapes. Features near the Equator are stretched vertically, while features near the poles are flattened horizontally. The resulting shapes are quite different from those on a globe.



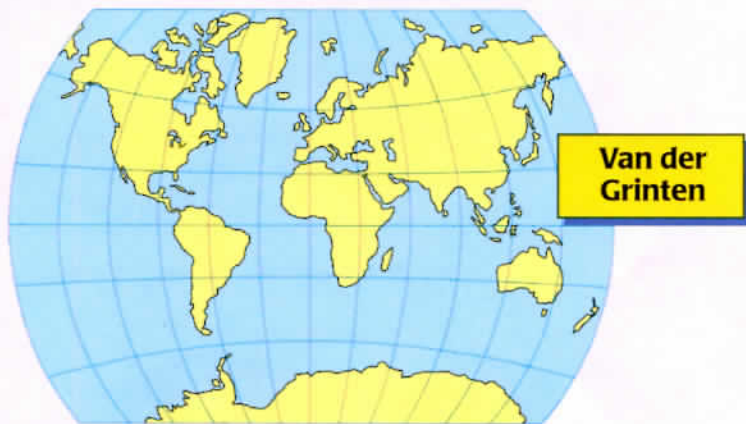
The **Miller** cylindrical is a *compromise* projection based on the Mercator. Its shapes are not as accurate as those of the Mercator, but it has much less size distortion. The Miller projection is often used when mapping world time zones.



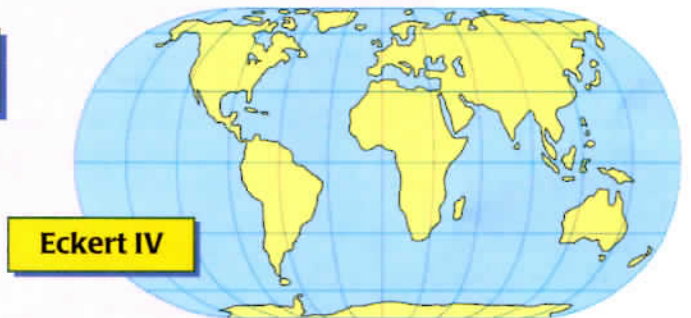
The oval shape of the **Mollweide** reminds viewers of a globe. An *equal-area* projection, it is frequently used for world distribution maps. (A distribution map shows the location and extent of something—such as crops, livestock, or people—across the face of the earth.)



First used in 1963, the **Robinson** is a *compromise* projection. Because it presents a reasonable overall picture of the world, it is often used for educational materials. It looks similar to the Eckert IV (below), but has more distortion in the polar areas.



The **Van der Grinten** is a *compromise* between the Mercator and the Mollweide. The full projection forms a circle, but the polar areas are normally not shown. Shapes and directions are reasonably accurate between 60°N and 60°S, where most of the world's people live.



An *equal-area* projection, the **Eckert IV** has relatively minor shape distortions near the Equator and poles. The result is a map well-suited either for general reference or for showing world distributions. It is often used to map world climates and other themes.



The **Goode's Homolosine** is an *equal-area* projection that also shows shapes extremely well. Shapes can be shown more accurately than on most equal-area maps because the grid is interrupted or split in the ocean areas. The interruptions allow land areas to be shown with less stretch or distortion.



The **Winkel Tripel** is a *compromise* projection. Its oval shape and curving parallels result in a map with realistic shapes and minor size distortions at all latitudes. It has less size distortion than the Van der Grinten and less shape distortion than the Robinson.

GLOSSARY

Some of the definitions given below are followed by page numbers in parentheses. Photographs and special maps on those pages help illustrate the definitions.

Archipelago Group of islands.

Basin 1. Area drained by a river and its branches. 2. Area surrounded by higher land.

Bay Body of water partly surrounded by land and partly open to a larger body of water. The larger body of water can be an ocean, sea, or lake.

Bight Crescent-shaped indentation of a coastline, usually wider and more open than a bay.

Boreal forest Vast needleleaf forest located in cold regions of the Northern Hemisphere. (13H)

Broadleaf forest Forest whose trees have broad leaves. In places with cold winters, broad leaves change color and fall off each autumn. (13E, 19D, 61)

Canal Narrow waterway built for transportation or irrigation. (18C, 54)

Channel Passage of water connecting two larger bodies of water.

Climate Pattern of weather for a particular place or region in a typical year. (18–19)

Commercial farming Growing crops or raising livestock, largely for sale to others. (20A, 58, 73, 91)

Compass rose Set of pointers that show directions on a map or globe. (3)

Consumption Amount of a commodity that is used in a given amount of time.

Contiguous Connected or touching. The United States has 48 contiguous states plus Alaska and Hawaii.

Continent One of the seven largest land masses on earth.

Coral reef Extensive ridge or mound in the sea that consists of the outer skeletons of tiny sea animals. (103)

Cropland Region used mainly for growing crops. (12A, 24, 47, 67)

Cross section Drawing or special map that shows a section of the earth as seen from the side. Also known as a *profile drawing*. (54, 88–89)

Delta Vast accumulation of sediment at the mouth of a river. Often shaped like a triangle.

Deposit Concentration of rock, mineral, oil, or natural gas within the earth's crust.

Desert Dry region receiving little rain or snow and with little or no vegetation; usually hot. (12D, 18B, 59, 65)

Elevation Height above or below sea level of a place on land. (14–15, 28–29, 58)

Elevation map Map that uses color to show land elevations and, sometimes, water depths. (10–11, 42–43, 64)

Equator Imaginary line that divides the earth into northern and southern halves. The 0° line for measuring latitude.

Export Something that is sold to a buyer in another country.

Forestry Use of forests for lumber, paper, and other products.

Geyser Hot spring under such high pressure that it shoots water and steam into the air from time to time. (98)

Glacier Large body of ice formed from a long-lasting accumulation of snow on mountains and in polar regions. See **ice cap**. (13F, 88)

Grassland Region where grass grows, sometimes mixed with scattered shrubs or trees. Grasslands are often used for grazing. (12C, 30, 64)

Growing season Longest period when air temperatures stay above freezing. The time of year when crops can grow. (17)

Gulf Area of an ocean or sea partly surrounded by land.

Hemisphere Any half of the earth.

Highland Large area of mountains or elevated land. (19F, 91)

Ice cap Immense glacier covering much or all of a continent or very large island.

Ice shelf Large layer of ice attached to land and extending out onto the sea. (105)

Import Something that is bought from a seller in another country.

Irrigated land Land artificially supplied with water so crops can grow there.

Isthmus Narrow body of land connecting a continent with a peninsula or another continent.

Key Illustrated explanation of a map's symbols or colors. (3, 4)

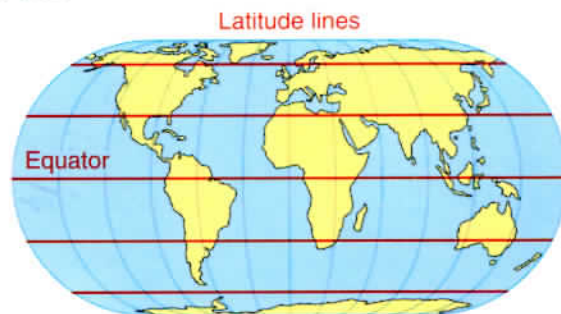
Land cover Vegetation, deserts, and glaciers now covering the earth's land surface. (12–13)

Land cover map Map that uses color to show land cover, sea ice, and ocean floors. (6–7, 38–39)

Land use The main economic activity in an area. It is not the only activity, but it is the most significant or widespread. (20)

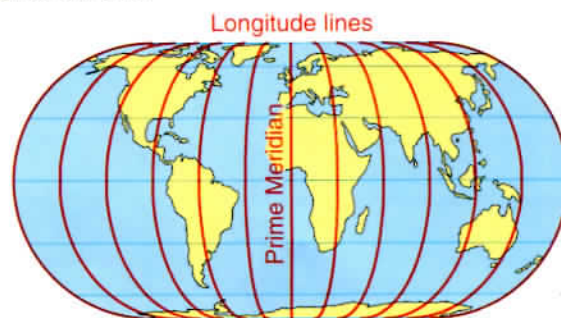
Landform Natural feature of the landscape, such as a mountain, plain, or island. (14–15)

Latitude Distance north or south of the Equator, as measured in degrees of a circle.



Legend Illustrated explanation of a map's symbols, colors, and lettering styles. (3, 4)

Longitude Distance east or west of the Prime Meridian, as measured in degrees of a circle.



Map projection Method of representing the earth's curved surface on a flat map. (106–107)

Monsoon Pattern of seasonal winds in Asia. The summer monsoon is wet, and the winter monsoon is dry. (90)

Natural gas Hydrocarbon gases formed underground when buried plants decompose. Natural gas can be burned to provide heat. (22, 47)

Needleleaf forest Forest of needleleaf trees, such as pines and other evergreens. (13H, 20D, 44)

Nomadic herding Raising herds of animals, moving them in a yearly cycle from one seasonal source of food and water to the next. (20D)

Ocean One of the five largest bodies of water on earth.

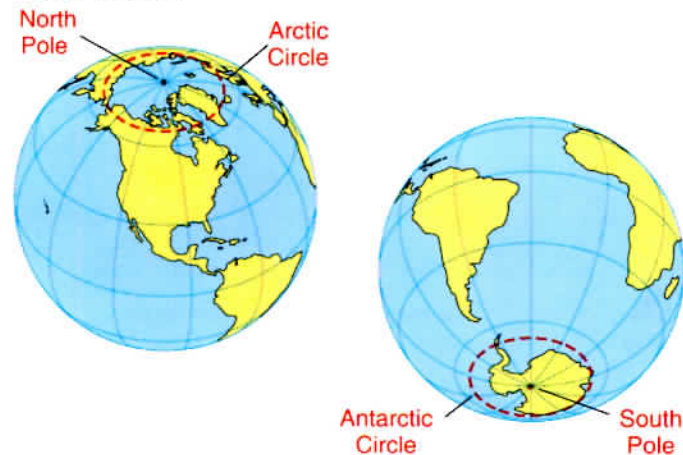
Peninsula Area of land that is almost surrounded by water.

Permafrost Ground that is frozen most or all of the year. (104)

Plain Broad area of land that is gently rolling or almost flat. (13H, 15, 81)

Plantation Extensive tract of land devoted mainly to one labor-intensive cash crop. (91)

Polar Related to or close to the North Pole or South Pole, or to the regions between the poles and the Arctic and Antarctic Circles. (19E, 104, 105)



Political map Map that uses color to show countries, states, or other political divisions. (8–9, 34–35, 40–41)

Population People, especially those living in a particular place. *Population density* measures the population per square mile. (24–25)

Port Place where cargo or passengers are moved onto or off of ships. (94)

Prime Meridian Imaginary line that helps divide the earth into eastern and western halves. The 0° line for measuring longitude.

Production Amount of something manufactured, grown, or extracted from the land in a given amount of time.

Province Political division similar to a state. Canada has provinces rather than states. (34–35)

Rainfall Amount of water that falls at a place. Rainfall includes rain plus the water from melted snow, sleet, and hail. (16, 44)

Ranching and herding Raising herds of livestock on large, open ranches. The livestock graze or feed on the natural grasses that grow there. (20C, 30)

Range 1. A connected line of mountains. **2.** Vast grassland used for grazing. (15, 30)

Region Large area that is different from the areas around it. A region can be defined by a single feature or by several features, either natural or cultural. (45)

Resource Supply of something that can be used to meet needs and wants. (21, 22, 36)

Rural Belonging to the countryside, as opposed to cities. (24, 47, 91)

Scale Relationship between an actual distance on the earth and the same distance as shown on a map. (3)

Sea 1. One of the divisions of an ocean. **2.** Large inland body of salty water. **3.** All the oceans of the world.

Sea ice Ice floating on the sea. Some sea ice forms a nearly permanent cover, mainly near the North Pole, while other sea ice is seasonal. (104)

Sea level The average elevation of the world's oceans between high and low tide. (14)

Semi-desert Region covered by scattered vegetation but too dry for crops without irrigation. Also called *semi-arid*. (20C)

Shield Broad, level mass of rock close to the surface of the earth.

Steppes Dry grasslands and semi-deserts, especially those stretching from central Europe to southern Siberia in Asia. (15)

Strait Narrow passage of water connecting two larger bodies of water.

Subsistence farming Producing enough food for the farmers and their families, with little or none left over for sale to others. (20B, 67)

Suburban Relating to the ring of smaller towns that make up the outer part of an urban area. (25)

Summit The highest place on a mountain. (15, 44, 88)

Symbol Shape, picture, line, or color that is used on a map to stand for a region, place, feature, or characteristic. (3)

Tableland Elevated plain, usually with at least one steeply dropping or rising side; also called *plateau*. Some tablelands are heavily eroded. (14)

Territory 1. Part of a country that does not have the full rights of a state or province. **2.** Any large region, often with poorly defined boundaries.

Time zone Region that shares the same time of day, usually one hour earlier than the next zone to the west. (25)

Tropical rain forest Dense forest in or near the tropics that receives great amounts of rain and stays green throughout the year. (12B, 59, 98)

Tropics Warm middle zone of the earth lying between the Tropic of Cancer and the Tropic of Capricorn. (17, 18A)



Tundra 1. Polar or mountainous area with no glaciers but too cold for trees to grow. **2.** Small plants that grow close to the ground in places that are cool or cold most of the year. (13G)

Upland Area of high ground, usually with a moderately hilly surface. (16)

Urban Consisting of cities or towns; the opposite of rural. Urban areas may be centers of manufacturing, trade, finance, or government. (25, 67, 92)

Weather Temperature, rainfall, and other conditions of the atmosphere over a short time. (16, 17)

Wetland Land where water is often at or near the surface. Bogs, marshes, and swamps are wetlands.

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Where Did Human Life Begin?

Many experts believe that our human species began in Africa 200,000 years ago. From there our early ancestors are thought to have slowly spread across the other continents.

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ABBREVIATIONS

& adm.	and administered (by)
Alb.	Albania
a.m.	ante meridiem (before noon)
Am. Samoa	American Samoa
Ang.	Angola
Arg.	Argentina
Arm.	Armenia
Aus.	Austria
Austr.	Australia
Azer.	Azerbaijan
Bos. or Bosnia	Bosnia-Herzegovina
BTUs	British thermal units
C. Afr. Rep.	Central African Republic
Cro.	Croatia
Cz. or Cz. Rep.	Czech Republic
D.C.	District of Columbia

Dem. Rep. of the Congo	Democratic Republic of the Congo
Den.	Denmark
Dom. Rep.	Dominican Republic
E	East
Elev.	Elevation
Eq. Guinea	Equatorial Guinea
Est.	Estonia
F	Fahrenheit
Fr.	France or French
ft.	foot or feet
Geo.	Georgia
I. or Is.	Island or Islands
Intl.	International
Kos.	Kosovo
L.	Lake
Lat.	Latvia

Liech.	Liechtenstein
Lith.	Lithuania
Lux.	Luxembourg
Mac.	Macedonia
Mex.	Mexico
mi.	mile or miles
Mol.	Moldova
Mon.	Montenegro
Mt. or Mts.	Mount, Mountain, or Mountains
N	North
Neth.	Netherlands
Nor.	Norway
N.Z.	New Zealand
Pak.	Pakistan
Pen.	Peninsula
p.m.	post meridiem (after noon)
Port.	Portugal
Pt.	Point
R.	River

Ra.	Range
Rep.	Republic
Res.	Reservoir
S	South
S. Afr.	South Africa
Serb.	Serbia
Sl. or Slovak.	Slovakia
Slov.	Slovenia
Sp.	Spain
sq.	square
St. or Ste.	Saint
Str.	Strait
Switz.	Switzerland
U.A.E.	United Arab Emirates
U.K.	United Kingdom
U.S.	United States
W	West