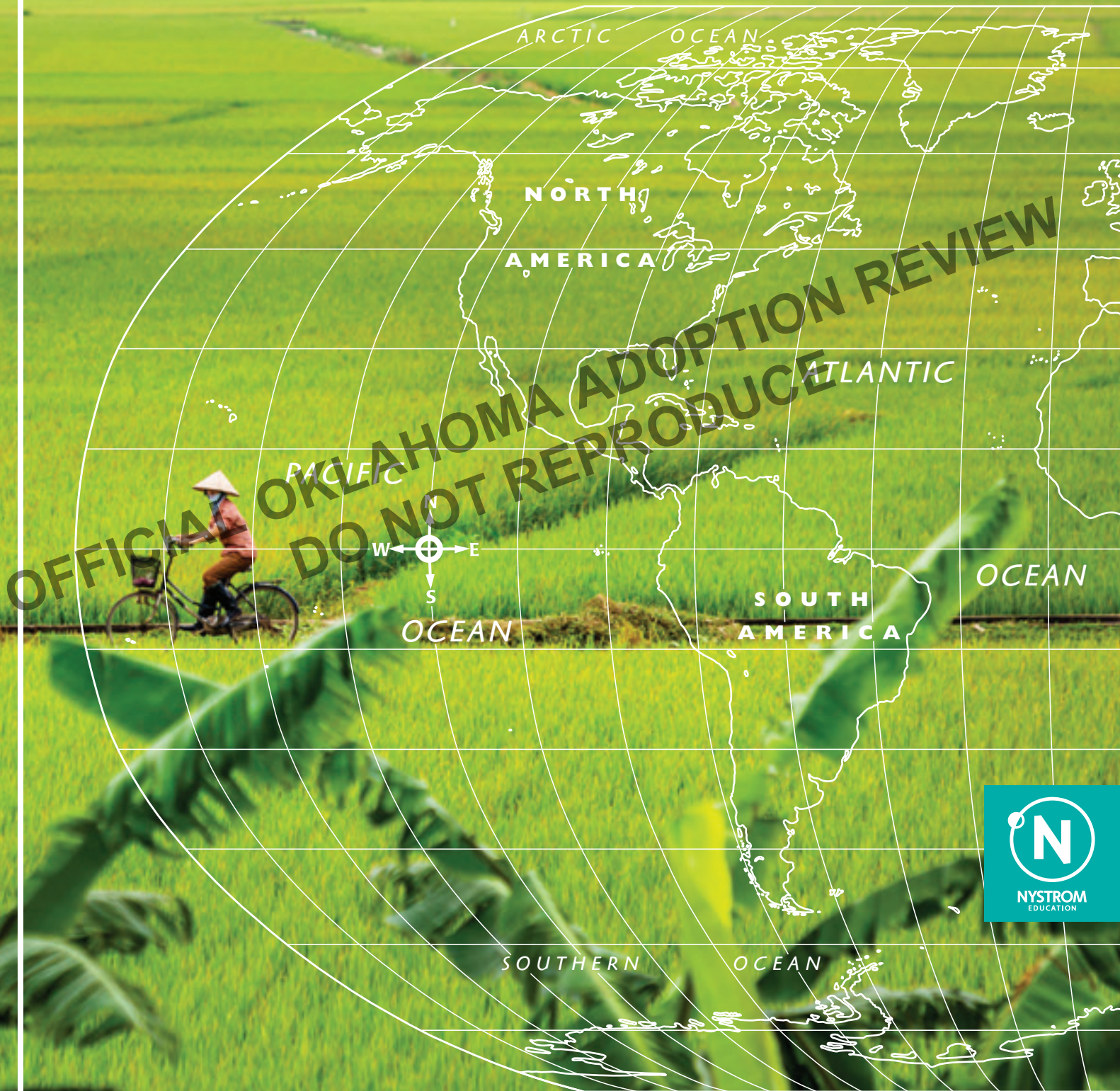


The Nystrom

World Atlas

FIFTH EDITION



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World Facts

Land Areas and Populations

Continent or Region	Land Area square miles	Percentage of World Land Area	Population	Percentage of World Population
Africa	11,608,000	20.2	1,145,316,000	15.7
Antarctica	5,100,000	8.9	0	0
Asia	17,208,000	30.0	4,375,482,000	60.1
Australia and Oceania	3,271,000	5.7	39,355,000	0.5
Europe	3,841,000	6.7	742,067,000	10.2
North America	9,449,000	16.5	569,166,000	7.8
South America	6,880,000	12.0	447,830,000	5.7

 **E-BOOK EXTRA**
Continent Area graph

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 16,067	Bentley Subglacial Trench -8,383
Asia	Mt. Everest, Nepal-China 29,035	Dead Sea, Israel-Jordan -1,385
Australia and Oceania	Jaya Peak, Indonesia 16,024	Kati Thanda-Lake Eyre, Australia -52
Europe	Mt. Elbrus, Russia 18,510	Caspian Sea, Russia -92
North America	Denali (Mt. McKinley), United States 20,310	Death Valley, United States -282
South America	Aconcagua, Argentina 22,831	Laguna del Carbon, Argentina -344

Ocean Areas and Maximum Depths

Ocean	Area square miles	Maximum Depth feet
Pacific Ocean	62,456,000	35,443
Atlantic Ocean	32,870,000	27,841
Indian Ocean	27,243,000	25,938
Southern Ocean	8,479,000	23,212
Arctic Ocean	6,007,000	18,264

Largest Urban Areas

City and Country	Population, including suburbs	
	Actual in 2015	Projected for 2025
Tokyo, Japan	38,200,000	38,660,000
Delhi, India	25,630,000	32,940,000
Shanghai, China	22,960,000	28,400,000
Mexico City, Mexico	21,710,000	24,580,000
New York, United States	21,330,000	23,570,000
Mumbai (Bombay), India	21,210,000	25,560,000
São Paulo, Brazil	21,030,000	23,170,000
Beijing, China	18,080,000	22,630,000
Dhaka, Bangladesh	17,380,000	22,910,000
Karachi, Pakistan	15,500,000	20,190,000
Kolkata (Calcutta), India	15,080,000	18,710,000
Buenos Aires, Argentina	14,150,000	15,520,000
Los Angeles, United States	14,080,000	15,690,000
Lagos, Nigeria	13,120,000	18,860,000
Manila, Philippines	12,860,000	16,280,000
Istanbul, Turkey	12,460,000	14,900,000
Guangzhou, China	12,390,000	15,470,000
Rio de Janeiro, Brazil	12,380,000	13,620,000
Shenzhen, China	12,340,000	15,540,000
Moscow, Russia	12,140,000	12,580,000
Cairo, Egypt	11,940,000	14,740,000
Osaka-Kobe, Japan	11,780,000	12,030,000
Paris, France	11,100,000	12,160,000
Chongqing, China	11,050,000	13,630,000
Jakarta, Indonesia	10,470,000	12,820,000

Largest Lakes

Lake and Continent	Area square miles
Caspian Sea, Asia and Europe	168,300
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	12,000
Nyasa (Malawi), Africa	11,400
Great Slave, North America	10,400
Erie, North America	9,900
Winnipeg, North America	9,500
Ontario, North America	7,300
Balkhash, Asia	6,800
Ladoga, Europe	6,300

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 He, 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

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Continents and Oceans

Where is it?

Can't remember what section that great map, graph, or feature was in? Go to the Thematic Index on the inside back cover. There you'll find a complete list of the reference and thematic maps, graphs, introducing topics, and Focus on features.

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Statistics and estimates are from government and United Nations sources; populations for the most recent available date, other data averages over the three most recent available years.

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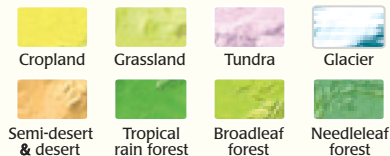
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Detailed Legends

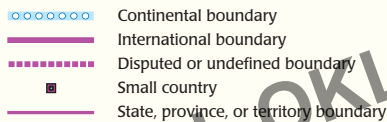


Land Cover Map

COLOR CATEGORIES



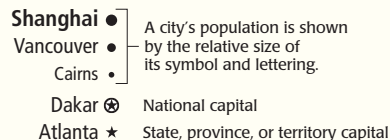
BOUNDARY SYMBOLS



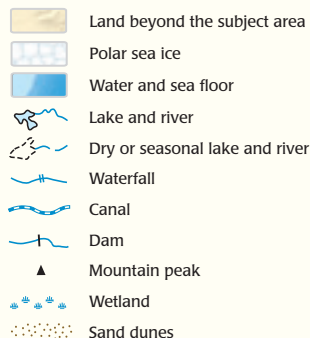
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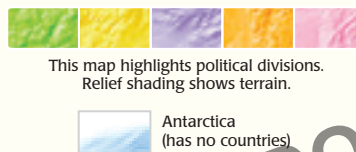


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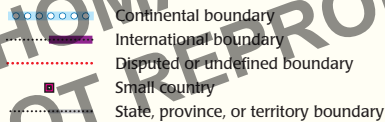


Political Relief Map

COLOR CATEGORIES



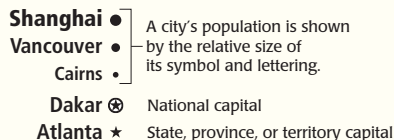
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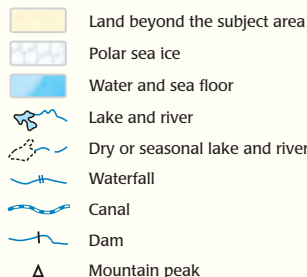
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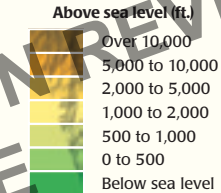


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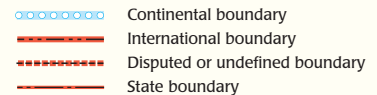


Elevation Map

COLOR CATEGORIES



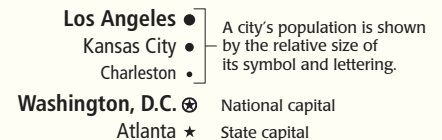
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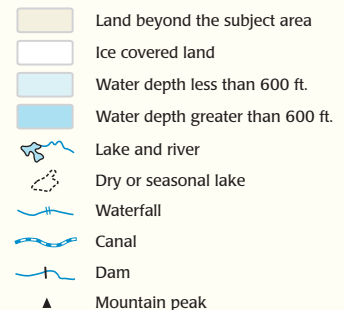
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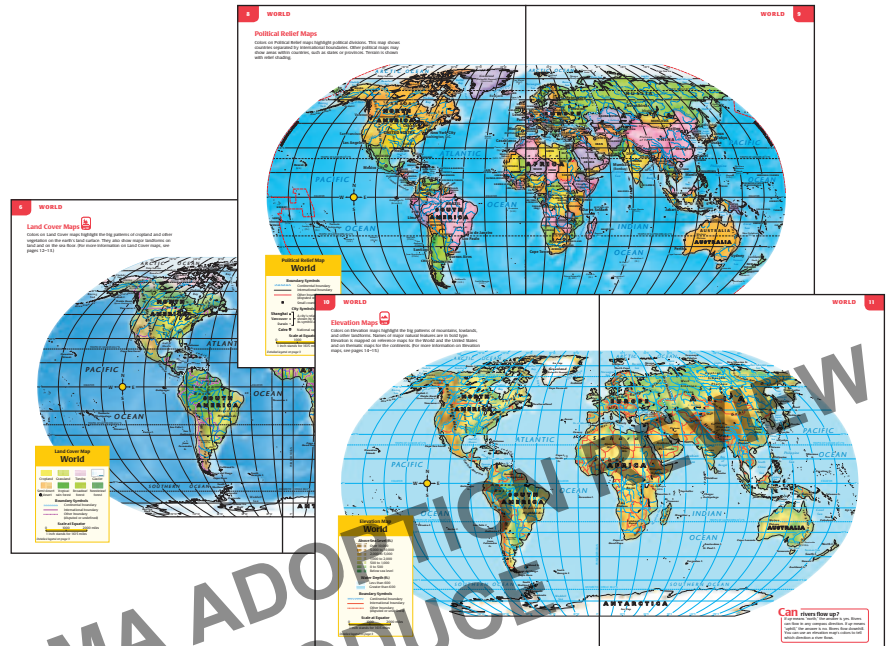


How to Use This Atlas

The Nystrom World Atlas Fifth edition offers rich coverage of the world and each continent. To get the most out of the World Atlas, follow these steps.

A Become acquainted with the REFERENCE MAPS in this atlas.

See the Land Cover, Political Relief, and Elevation maps of the world on pages 6–11. Their detailed legends are on page 3.



B Check out the UNDERSTANDING sections on pages 12–25. They provide a foundation for understanding themes that are repeated throughout the atlas.

1 Look at the **title**, which tells you what the section is about.

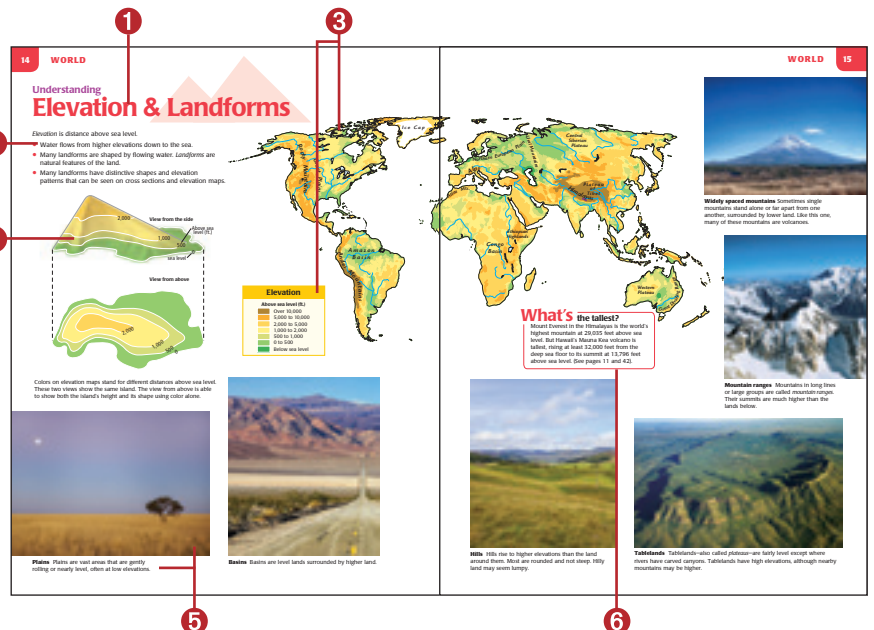
2 Then read the **introduction**. It provides an overview of the theme addressed on the spread.

3 Look at the **maps**. Their legends explain what the main colors and symbols on the map mean. Always read the legend before examining a map.

4 **Diagrams** and **cross sections** show slices of the earth, to make landscapes easier to comprehend. Their exaggerated height and depth make features easy to see.

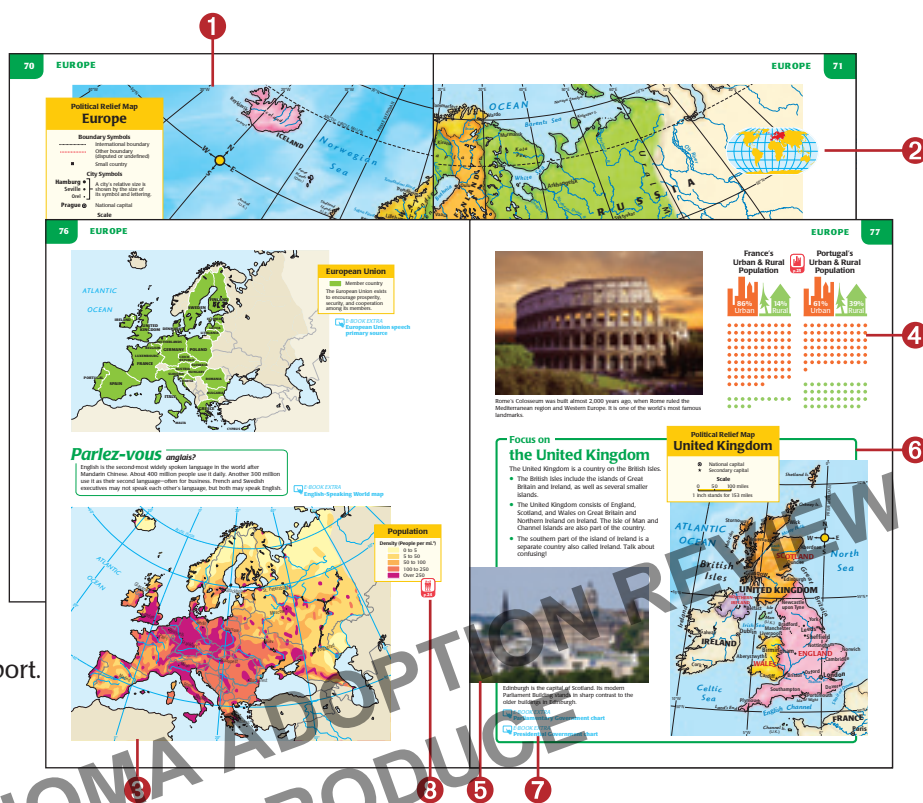
5 Also look at the **photos** and **graphs**. Read the photo captions. They help you understand the significance of each image.

6 Watch for **Geodes**, which are nuggets of geographic facts. Some provide helpful examples.



C Each continent is color-coded, to make it easy to find your way through the atlas. Page through a continent.

- 1 First you'll find **reference maps**.
- 2 **Locator maps** show the location of the continent in relation to the world or a region in relation to the continent.
- 3 **Thematic maps** focus on a single topic or theme. Often the patterns on one thematic map become more meaningful when compared to the patterns on another. The five types of recurring thematic maps are shown at the bottom of this page.
- 4 **Graphs** summarize facts in a visual way, making it easier to see trends and make comparisons. Three recurring graphs appear throughout the atlas: Urban & Rural Population, People per Car, and Grain Import/Export.
- 5 **Photos** show people and places in a geographic context. Some provide examples of map categories. Others bring abstract ideas to life.
- 6 "Focus on" sections give special attention to important topics and issues.
- 7 **E-BOOK EXTRA** In the e-book version of the World Atlas, this symbol links to maps, graphs, or primary source documents on the topic.
- 8 Watch for these symbols. They let you know there is an Understanding section that explains the subject matter.



Other Reference Tools

Map projections are the means by which the curved surface of the earth is transferred to the flat surface of a map.

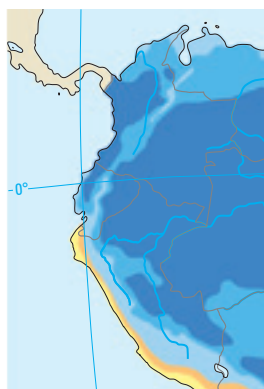
Unfamiliar terms in *italics* are defined in context. Other terms are defined in the **Glossary**. Some definitions in the Glossary include page references to photos and special maps in the atlas.

The **Index** gives a description of the place, latitude and longitude, and page for many places named on the maps.

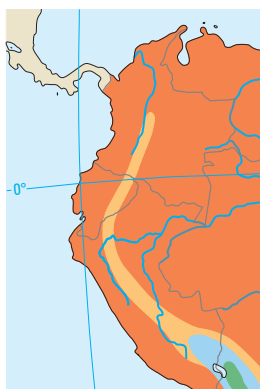
Thematic Maps



Elevation



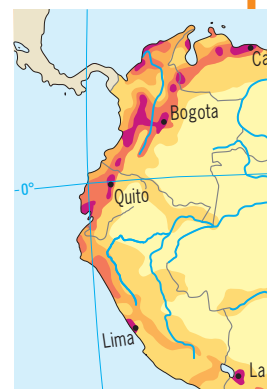
Precipitation



Growing Season



Land Use

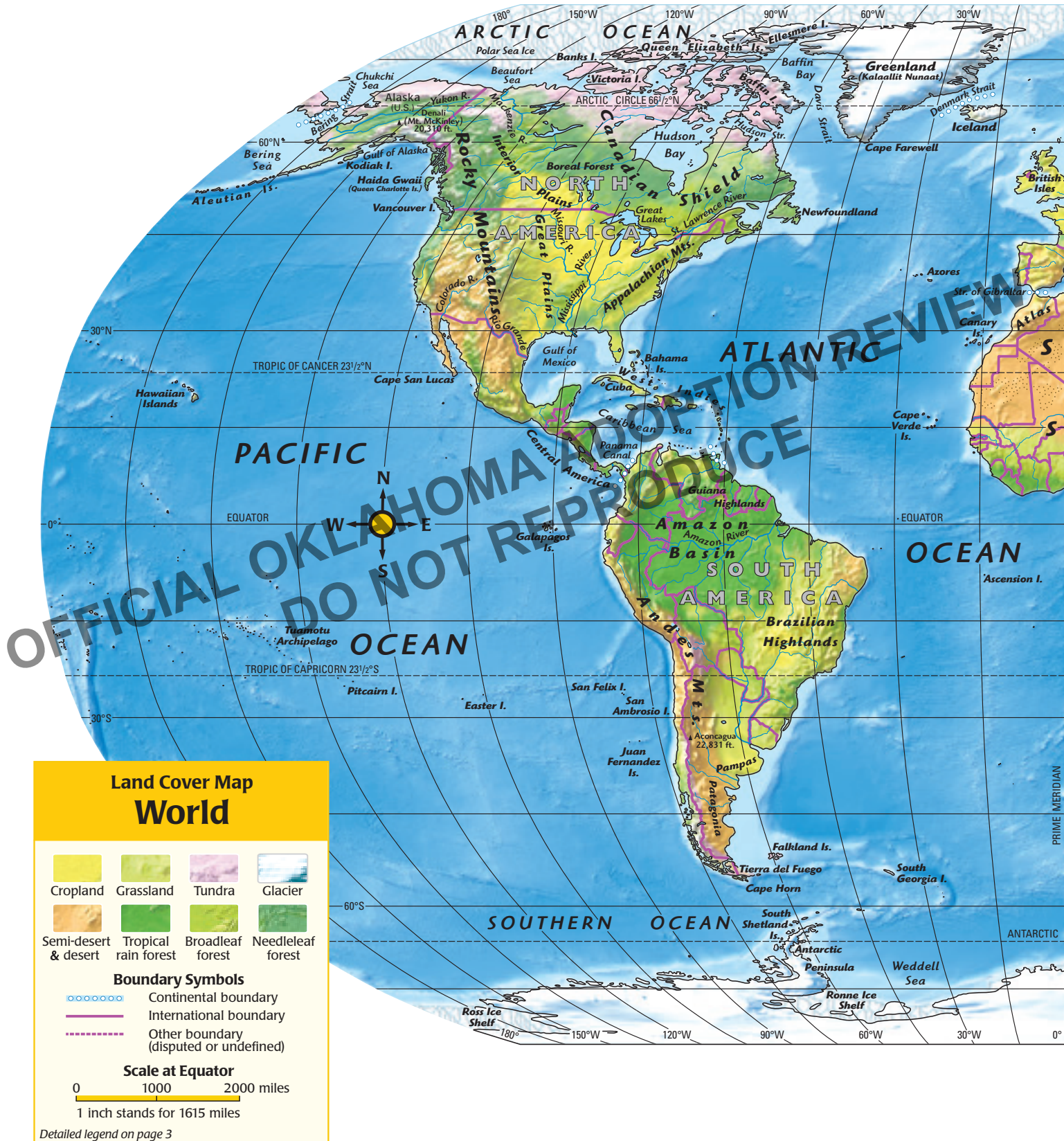


Population



Land Cover Maps

Colors on Land Cover maps highlight the big patterns of cropland and other vegetation on the earth's land surface. They also show major landforms on land and on the sea floor. (For more information on Land Cover maps, see pages 12–13.)



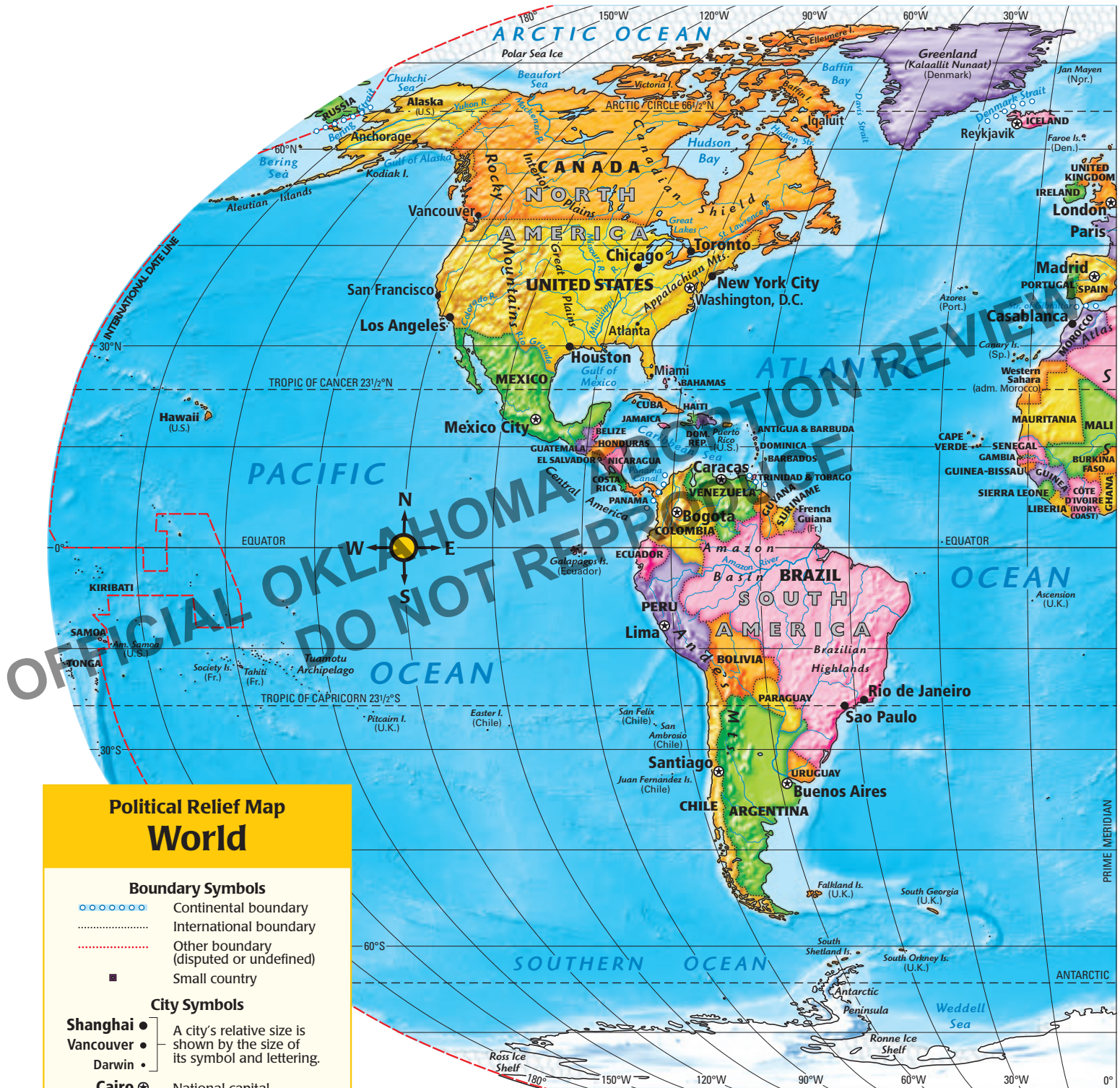


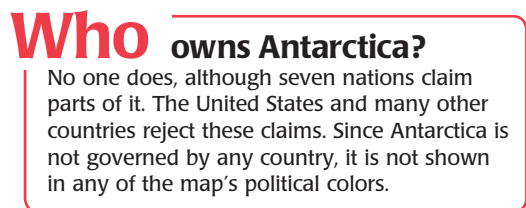
How many oceans are there?

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 shown on the map.

Political Relief Maps

Colors on Political Relief maps highlight political divisions. This map shows countries separated by international boundaries. Other political maps may show areas within countries, such as states or provinces. Terrain is shown with relief shading.

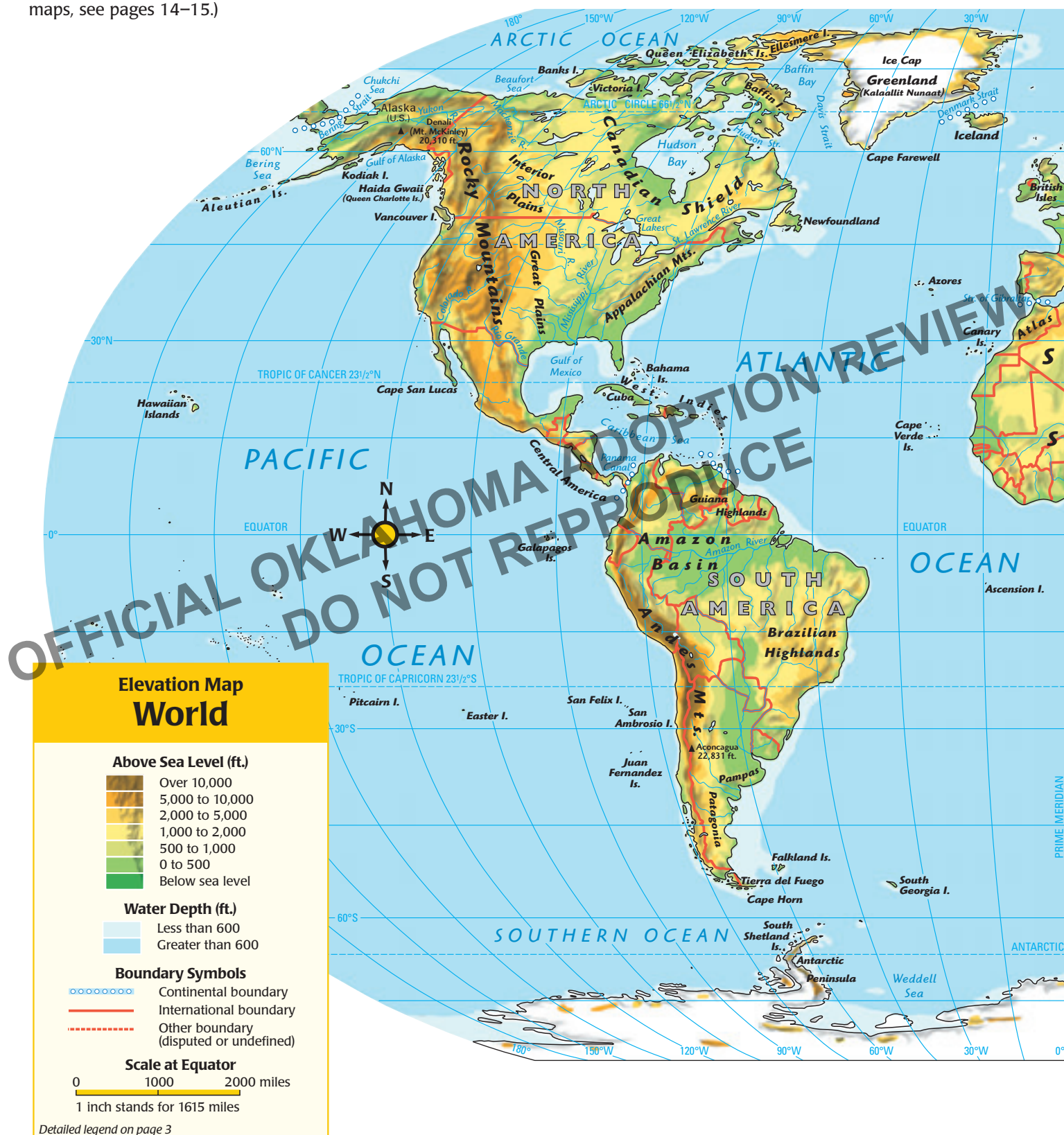


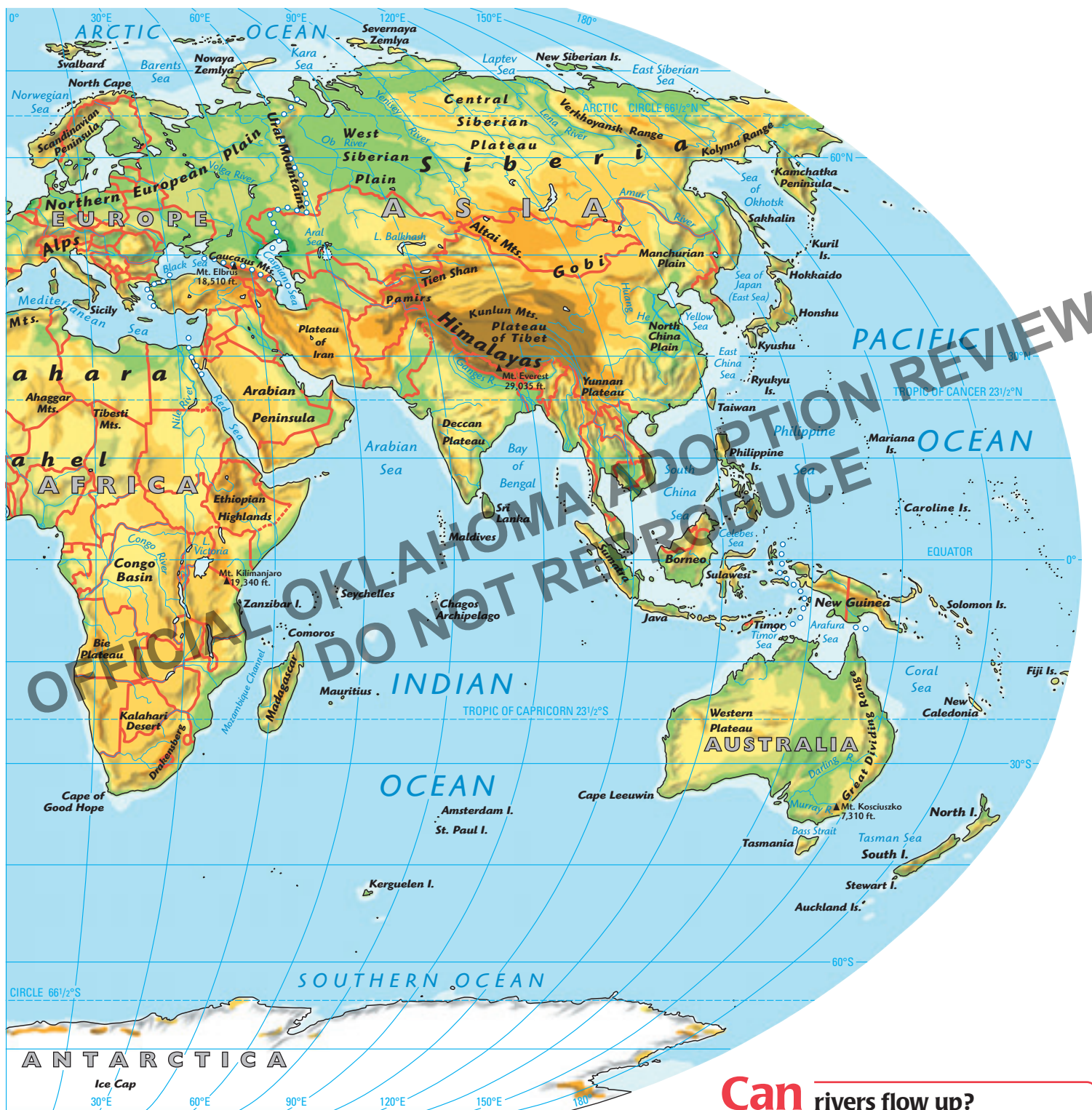


Elevation Maps



Colors on Elevation maps highlight the big patterns of mountains, lowlands, and other landforms. Names of major natural features are in bold type. Elevation is mapped on reference maps for the World and the United States and on thematic maps for the continents. (For more information on Elevation maps, see pages 14–15.)





Can rivers flow up?

If *up* means "north," the answer is yes. Rivers can flow in any compass direction. If *up* means "uphill," the answer is no. Rivers flow downhill. You can use an elevation map's colors to tell which direction a river flows.

Understanding Land Cover

Land cover is the most common ground cover found in a given area. However, other types of ground cover may also appear there.

- Most land is covered with plants. This includes crops planted by people, as well as natural vegetation.
- Deserts with little or no vegetation cover areas that are very dry.
- Icy glaciers cover areas that are very cold.



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



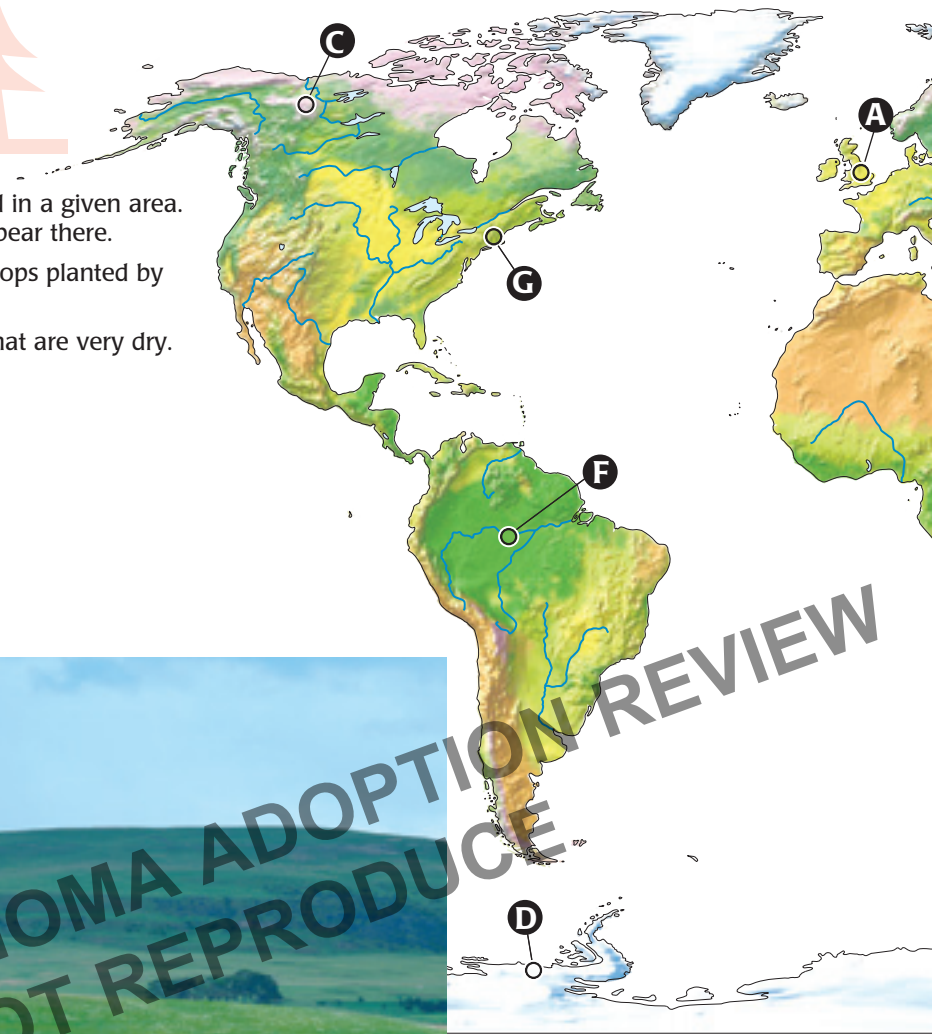
B **Grassland** Vast areas mainly covered with grass are often used as grazing land. Some grasslands also have scattered trees or shrubs.

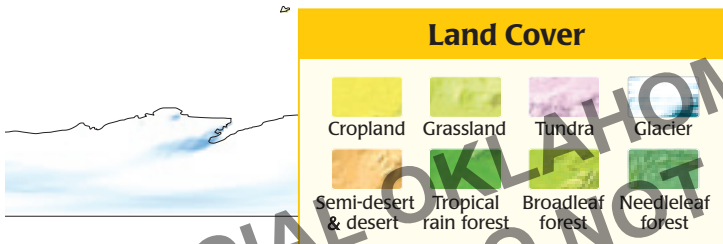
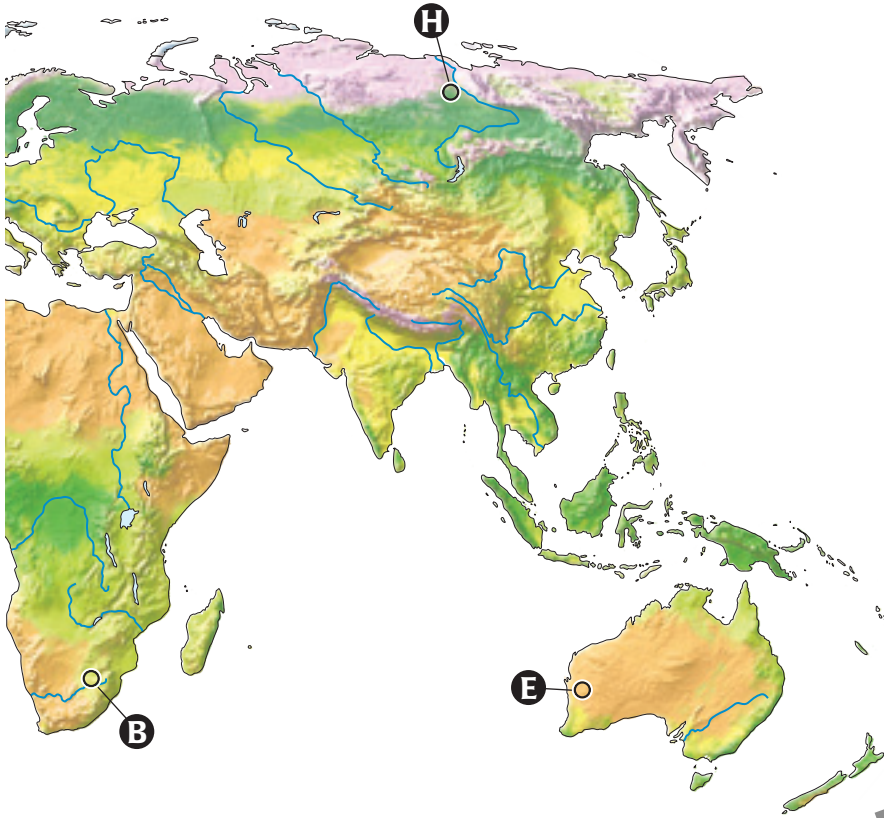


C **Tundra** Only short, hardy plants grow in cold regions found at high latitudes and high elevations.



D **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.





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

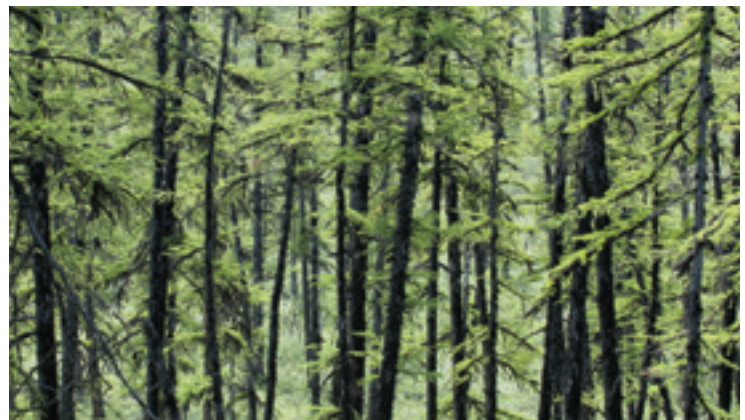


Tropical rain forest Hot, wet regions near the Equator have broadleaf forests that are green all year. These forests are thick with large trees and other plants.

[E-BOOK EXTRA](#)
[Tropical Rain Forests map](#)



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.

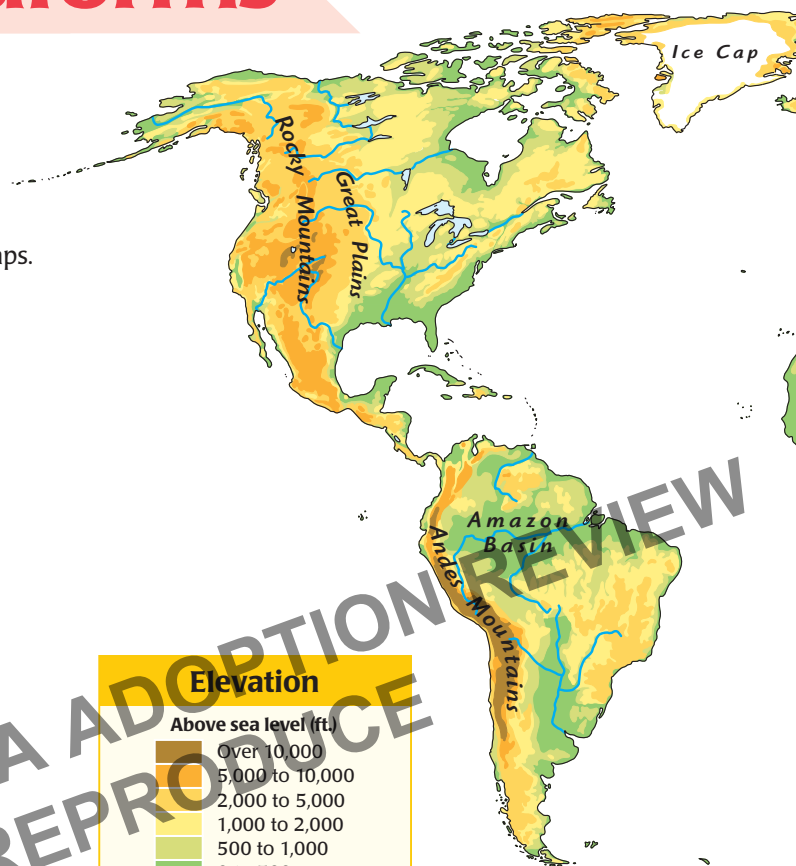
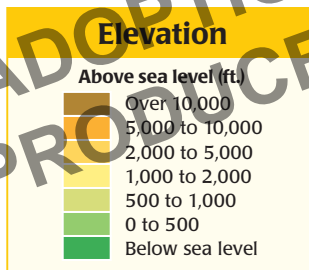
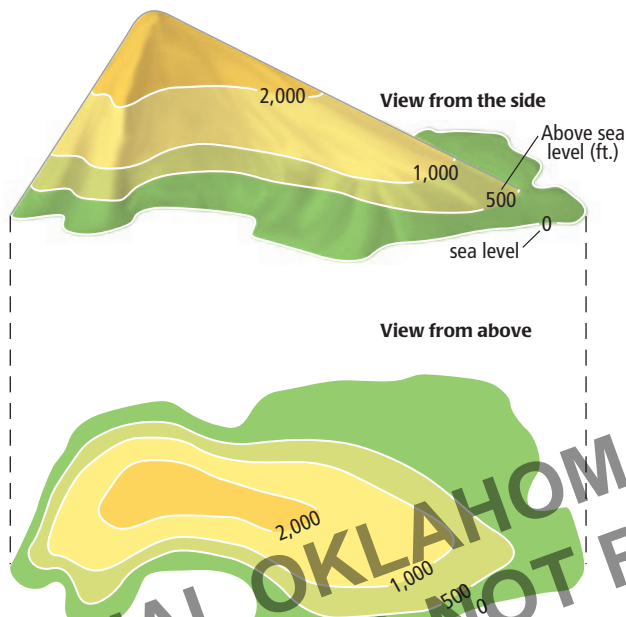


Needleleaf forest Most needleleaf trees are evergreen, such as pine, spruce, and fir trees. But some are deciduous.

Understanding Elevation & Landforms

Elevation is distance above sea level.

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



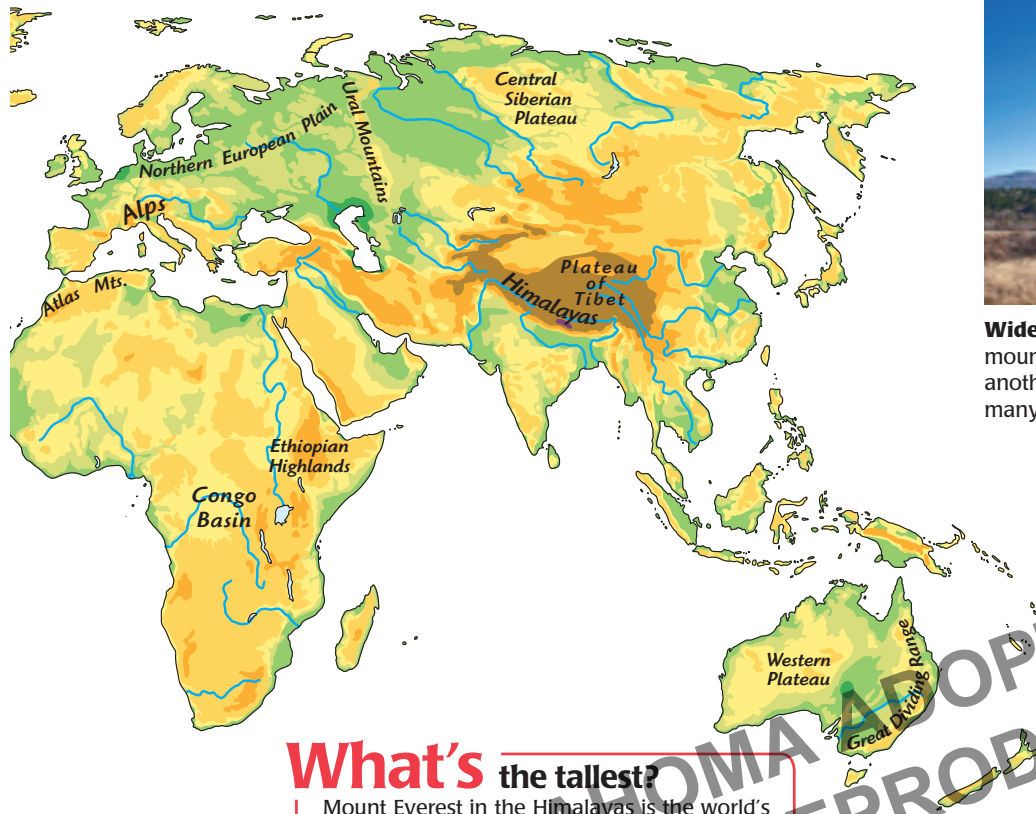
Colors on elevation maps stand for different distances above sea level. These two views show the same island. The view from above is able to show both the island's height and its shape using color alone.



Plains Plains are vast areas that are gently rolling or nearly level, often at low elevations.



Basins Basins are level lands surrounded by higher land.



What's the tallest?

Mount Everest in the Himalayas 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. (See pages 11 and 42).



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.



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



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

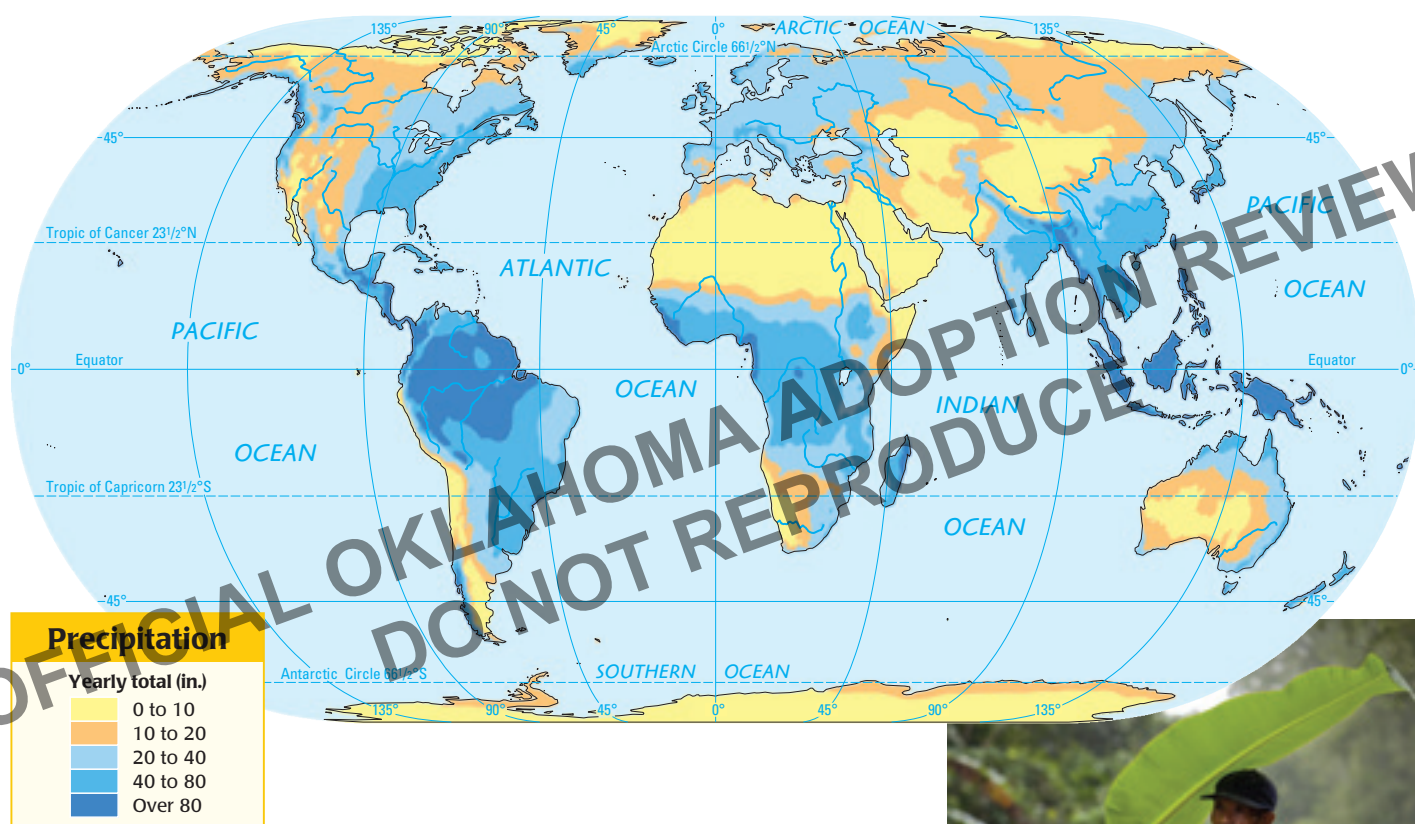


Tablelands Tablelands—also called *plateaus*—are fairly level except where rivers have carved canyons. Tablelands have high elevations, although nearby mountains may be higher.

Understanding Precipitation

Precipitation includes rain, snow, sleet, and hail.

- Precipitation varies greatly from one part of the world to another.
- The amount also varies from year to year. Precipitation maps show the average amount.
- Since all living things need water, the pattern of precipitation affects not only what grows, but also how and where people live.
- Where precipitation is scarce, life is limited.



On average, 10 inches of snow equal about one inch of precipitation. However, it depends on how powdery or wet the snow is.



In some parts of the world, precipitation is spread evenly throughout the year. In others, all their precipitation is concentrated in just a few months.

Understanding Growing Season

Growing season is the longest stretch of days with air temperatures above freezing.

- Freezing is 32°F.
- The growing season is the amount of time in a year when crops can grow.
- Some places are hot or cold all year. Others have seasons.



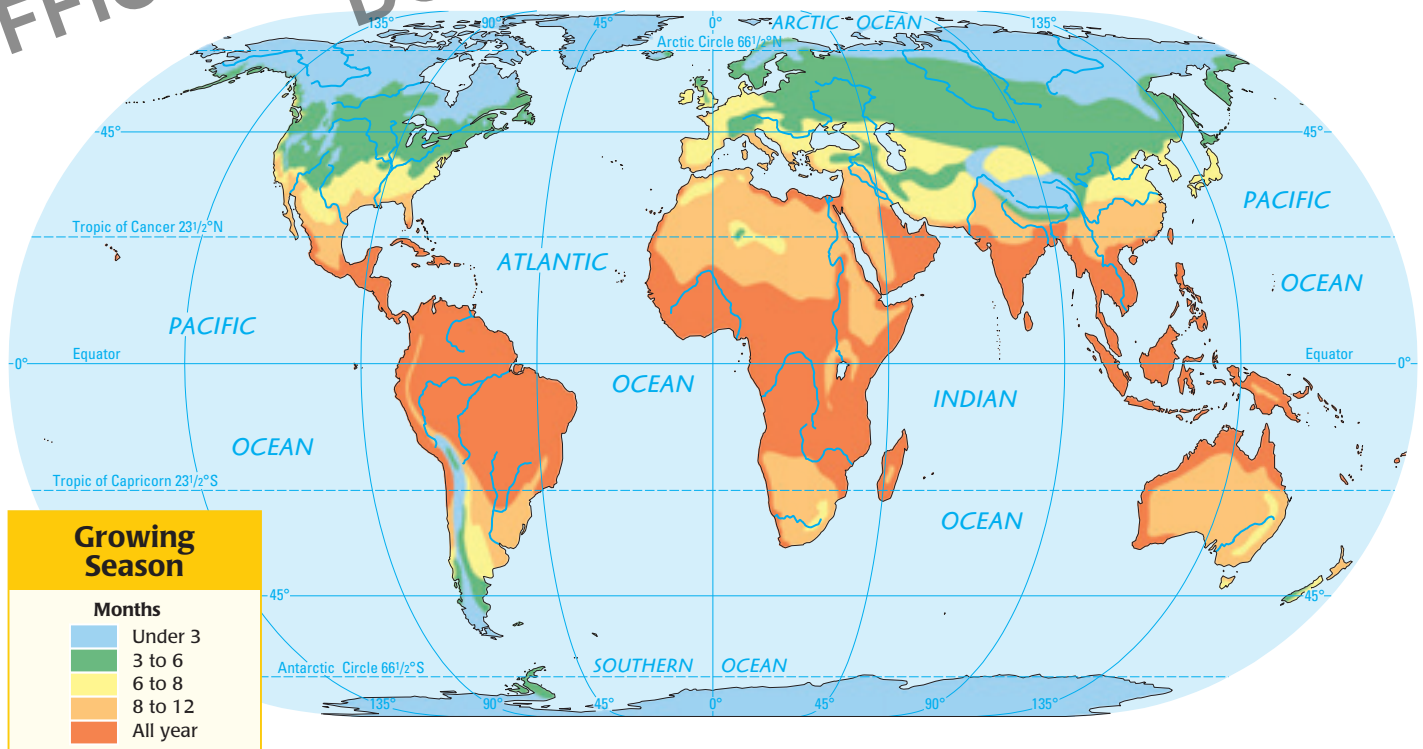
The tropics have an extremely long growing season. With winter as hot as summer, crops can grow all year long.



As you move away from the tropics, growing seasons get shorter and shorter. Crops can't grow outside in cold, snowy winters.

How cold was it?

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



Understanding Climate

Climate is the usual weather pattern for a region over time.

- Precipitation and temperature are the most important elements of climate.
- Latitude, distance from the ocean, and elevation all affect precipitation, temperature, and wind.
- Climate strongly affects where and how people live.
- Each of the photos below represents winter in that climate region. Look for similarities and differences between climates.



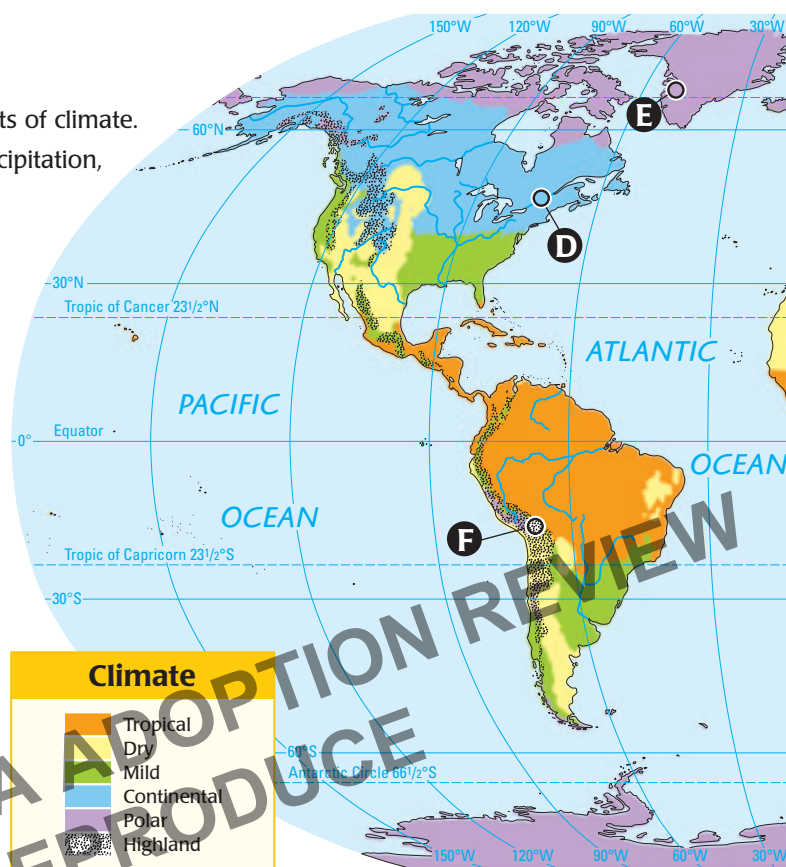
A

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.



Climate

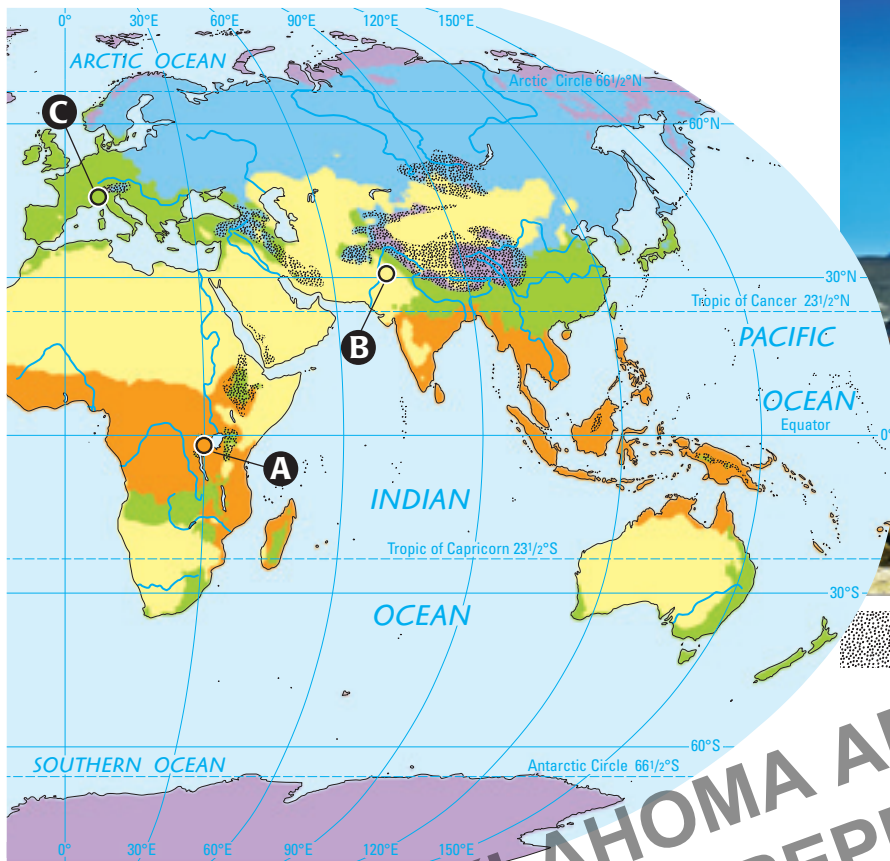
- Tropical
- Dry
- Mild
- Continental
- Polar
- Highland

E-BOOK EXTRA
Climate map and graphs



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.



Highland climates Local climates vary greatly because of differences in elevation. Distance from the Equator also affects highland climates. Because of its elevation, this city is 25°F cooler year round than a city near sea level at the same latitude.



D

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



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. During winter, they have few hours of sunlight.

Understanding Land Use

Land use is the most economically valuable use of land in an area. Other land uses may also occur there.

- Most land is used to provide food.
- 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.
- Forestry involves cutting down trees and turning them into lumber, wood pulp for paper, and other products.
- Urban land use includes trade, manufacturing, financial services, and other activities that take place in cities and suburbs.



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



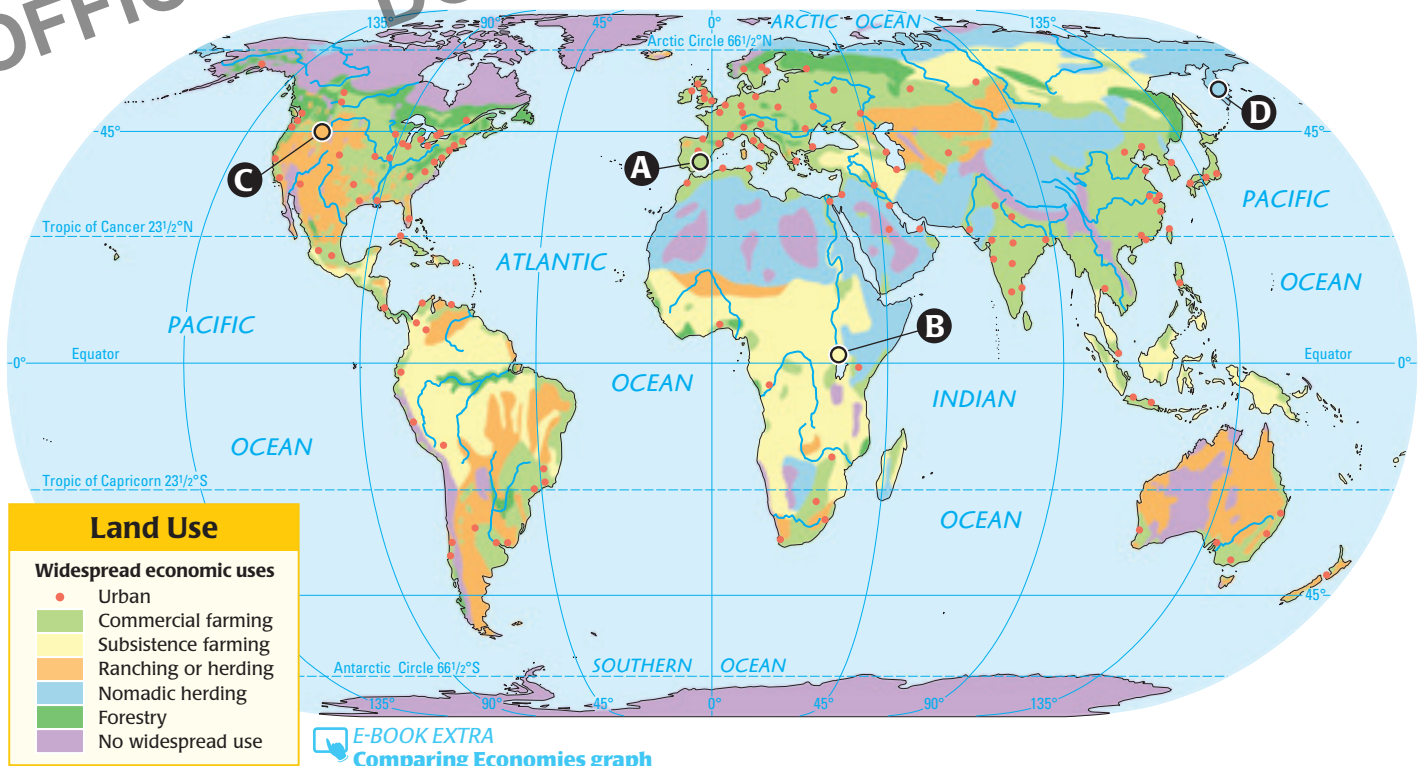
B Subsistence farming Most subsistence farmers have small pieces of land. Few have modern machinery.



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.

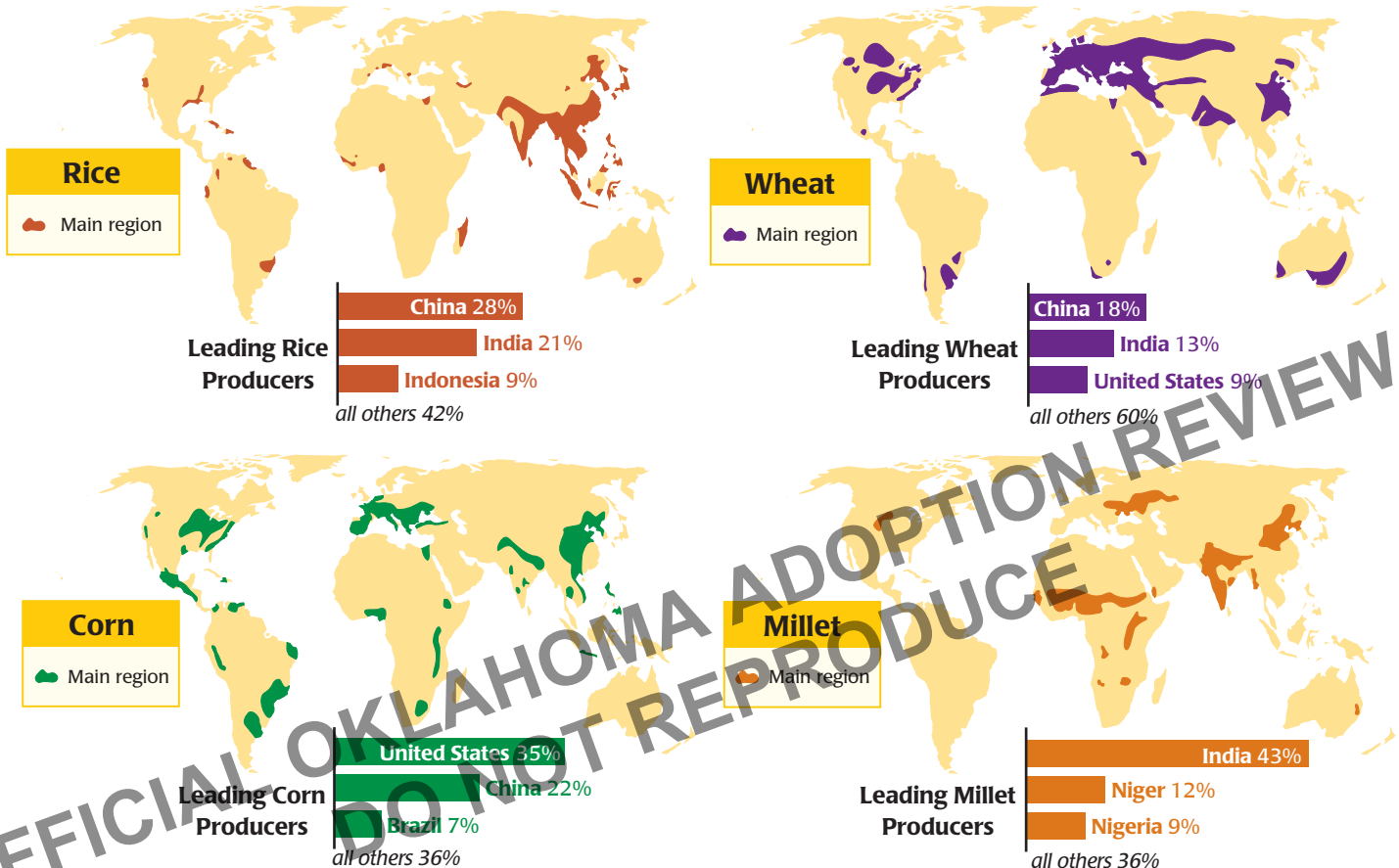


Understanding Food Resources

E-BOOK EXTRA
Food Consumption graphs

Cereal grains such as rice, wheat, corn, and millet are all in the grass family.

- Rice needs a lot of water to grow.
- Wheat is used for an amazing variety of breads and noodles.
- Corn, also known as *maize*, feeds both people and livestock.
- Millet needs little water to grow.
- These grains feed more people than any other kind of food.



Understanding Import & Export

E-BOOK EXTRA
World Trade Routes map

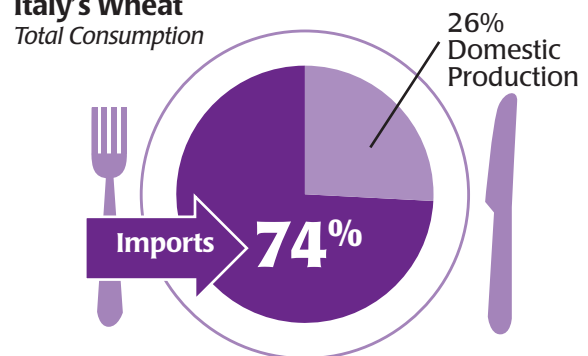
Import and export describe the movement of goods.

- *Import* is the movement of goods into a country. *Export* is the movement of goods out of a country.
- These graphs show the total amount of grain a country produces or consumes. Each graph represents 100 percent.
- If a country produces more grain than it needs, the extra grain is often exported.
- If a country consumes more grain than it produces, it imports grain to meet its needs.

Thailand's Rice
Total Production



Italy's Wheat
Total Consumption

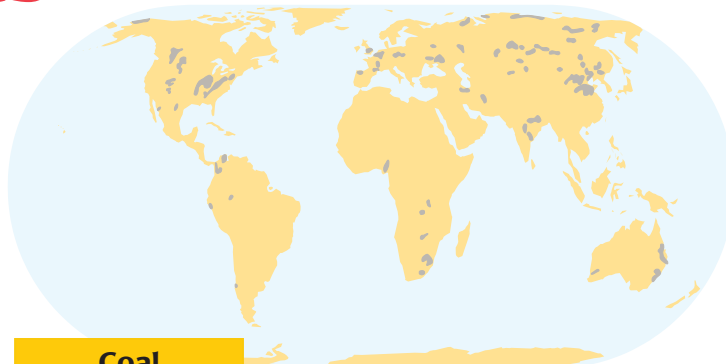


Understanding Energy Resources

Most of the world's energy needs are filled by coal, natural gas, oil, and uranium.

- All four are *nonrenewable*. Once used, they are gone forever.
- Of the four, coal is the most widespread and cheapest to use.
- Since coal, natural gas, and oil all were once ancient plants, they are known as *fossil fuels*.

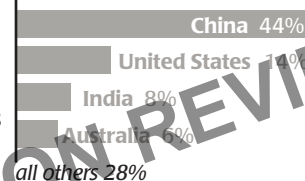
E-BOOK EXTRA
Coal Consumption graph



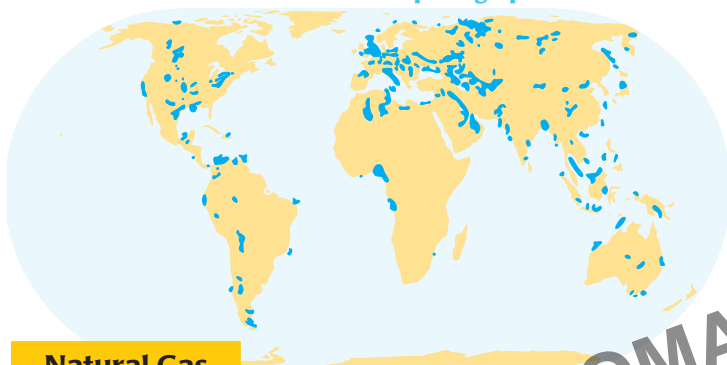
Coal

Major deposit

Leading Coal Producers



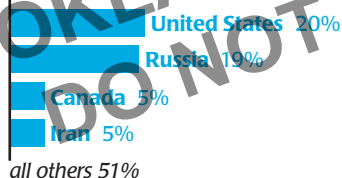
E-BOOK EXTRA
Natural Gas Consumption graph



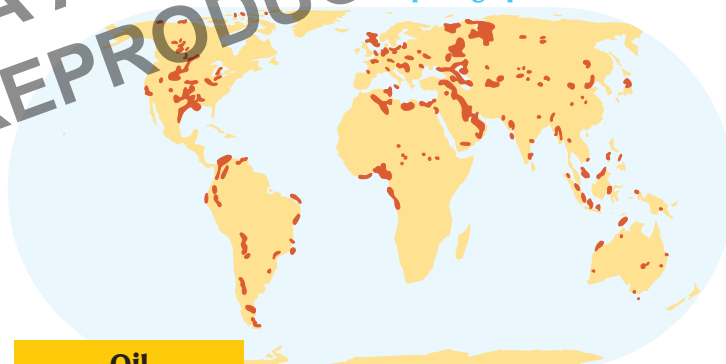
Natural Gas

Major deposit

Leading Natural Gas Producers



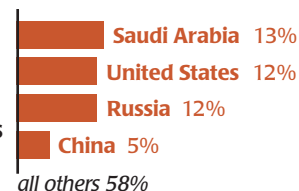
E-BOOK EXTRA
Petroleum Consumption graph



Oil

Major deposit

Leading Oil Producers



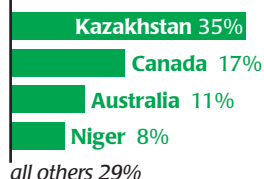
E-BOOK EXTRA
Uranium Consumption graph



Uranium

Major deposit

Leading Uranium Producers



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. Crops, another renewable resource, can also be used to create fuel.

Understanding People per Car

People per car is one way to measure 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.
- People per car compares the number of people in a country with the number of cars there.
- In this case, "car" includes vans and SUVs. However, it does not include motorcycles.
- On the People per Car graph and map, the number shown is the number of people per each car.
- The fewer people per car, the higher the country's standard of living.



In countries with low standards of living, most families cannot afford a car at all. They walk, ride bikes, or use public transportation.

E-BOOK EXTRA
People per Physician map and graph



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

People per Car

118
Pakistan



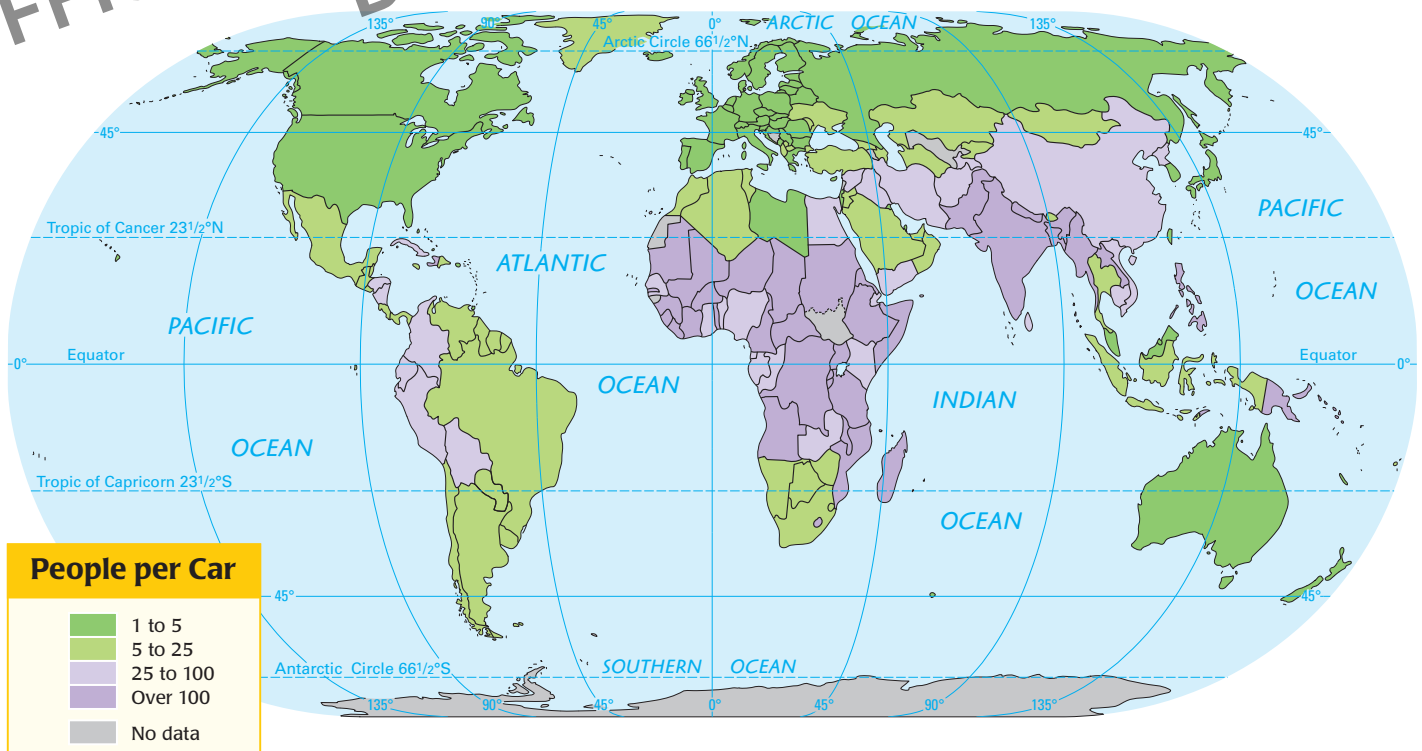
60
Gabon

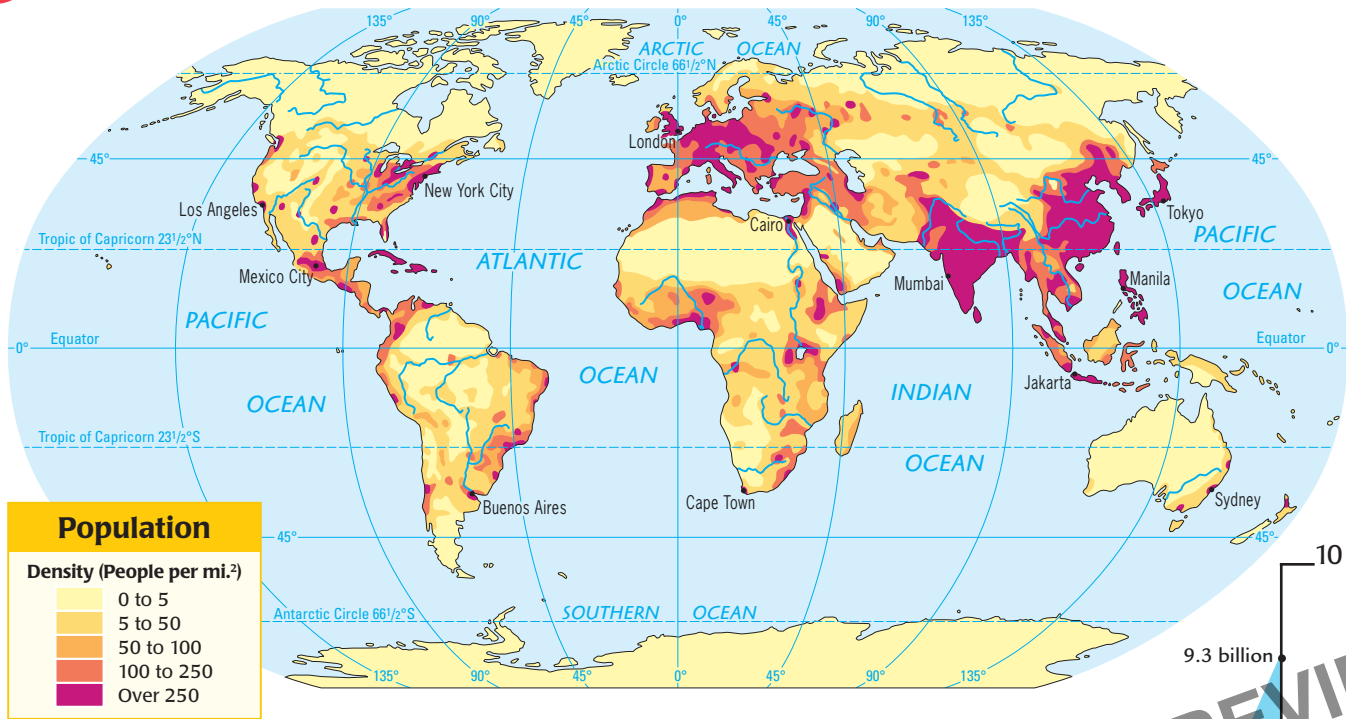


10
Venezuela



2
United States





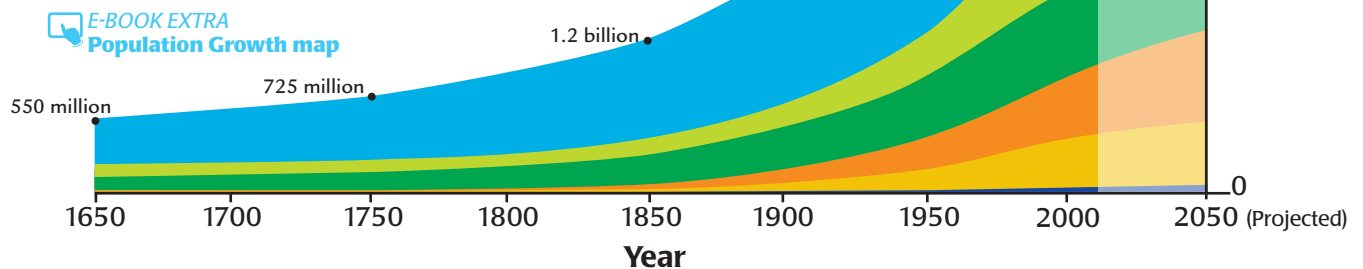
Understanding Population

The people living in a particular place are its population.

- The world has over 7 billion people.
- Despite this number, only certain regions of the world are densely populated.
- Population density tells the population per square mile.
- Areas that are very cold or very dry are sparsely populated and likely to remain so.

World Population Growth, 1650-2050

- Asia
- Africa
- Europe
- North America
- South America
- Australia and Oceania



Understanding Urban & Rural

Population can be classified as urban or rural.

- Urban areas include cities of 50,000 people or more. They are centers of trade, manufacturing, finance, or government.
- Urban areas also include the suburbs surrounding those cities.
- Rural areas include small towns away from large cities, as well as farming and mining communities.
- In the last 100 years, the world population has become far more urban.
- On these graphs, each dot represents 1 percent. There are 100 dots in each graph.



Many people live in rural villages. This small town is in Morocco. Unlike suburbs, small towns can be miles from the next village.



Tall buildings and crowded streets are typical of major cities at the center of urban areas. This is Lisbon, the largest city in Portugal.

Why move?

Modern farming and mining require fewer people than in the past. As a result, millions have left rural areas for urban ones, hoping to find better economic opportunities.

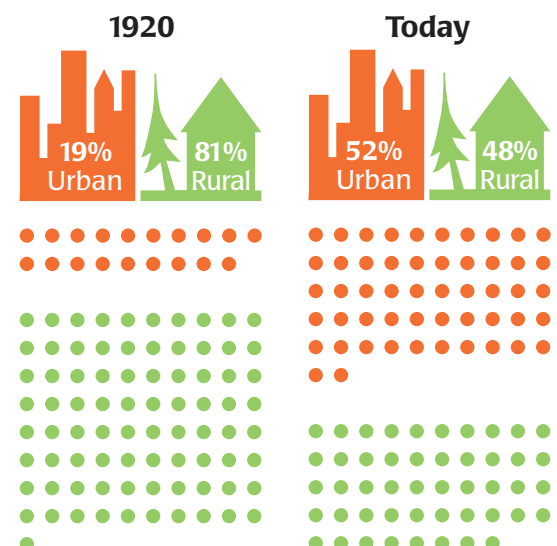


Most rural areas are sparsely populated. This cattle station in Australia is huge and miles from town.



Spreading suburbs account for more and more of the urban population in prosperous countries. This suburb is outside Atlanta.

World Urban & Rural Population



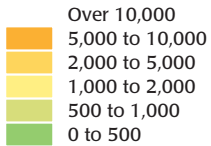






Elevation

Above sea level (ft.)

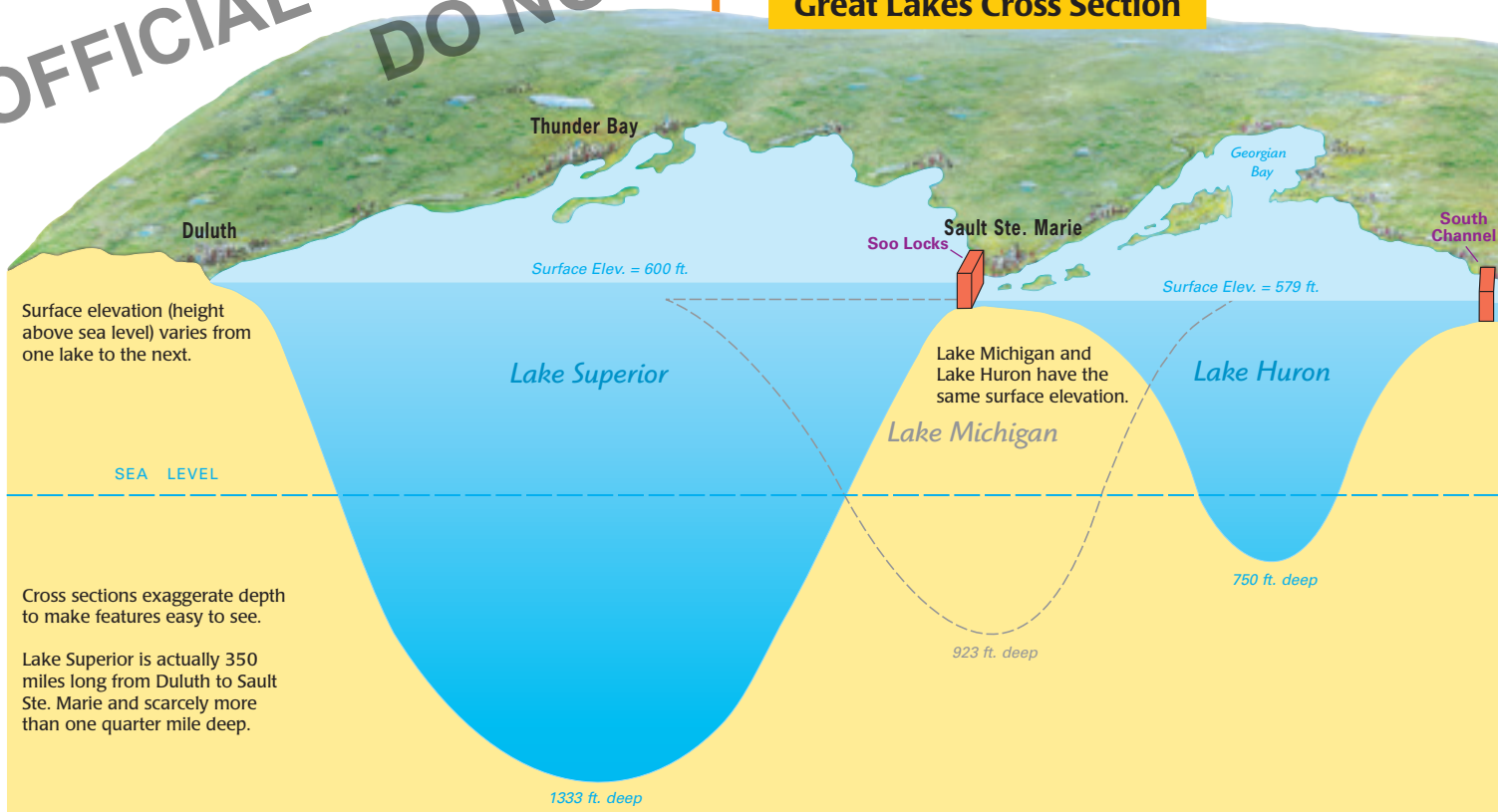


Beyond Chicago's famous skyline, Lake Michigan stretches to the horizon.

Are we there yet?

Ships leaving Duluth, Minnesota, sail 1,340 miles through the Great Lakes and the St. Lawrence River to reach Montréal. The Atlantic Ocean is roughly another 1,000 miles beyond that. It usually takes a ship a week to make the entire trip.

Great Lakes Cross Section

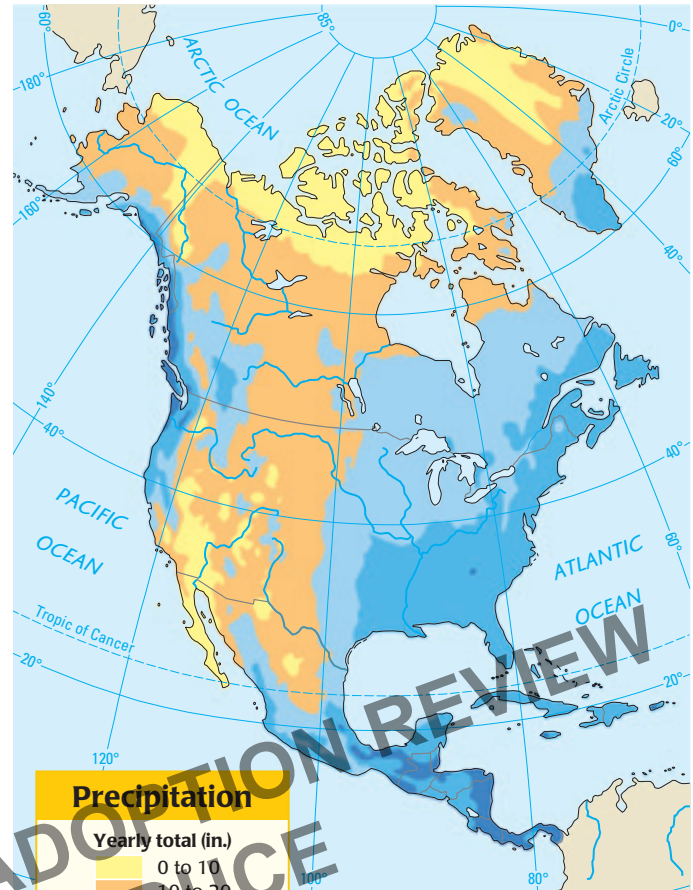


Focus on the Great Lakes

The Great Lakes are Lakes Superior, Michigan, Huron, Erie, and Ontario.

- These five lakes are large enough to be called *inland seas*.
- The Great Lakes 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



Precipitation

Yearly total (in.)

0 to 10

10 to 20

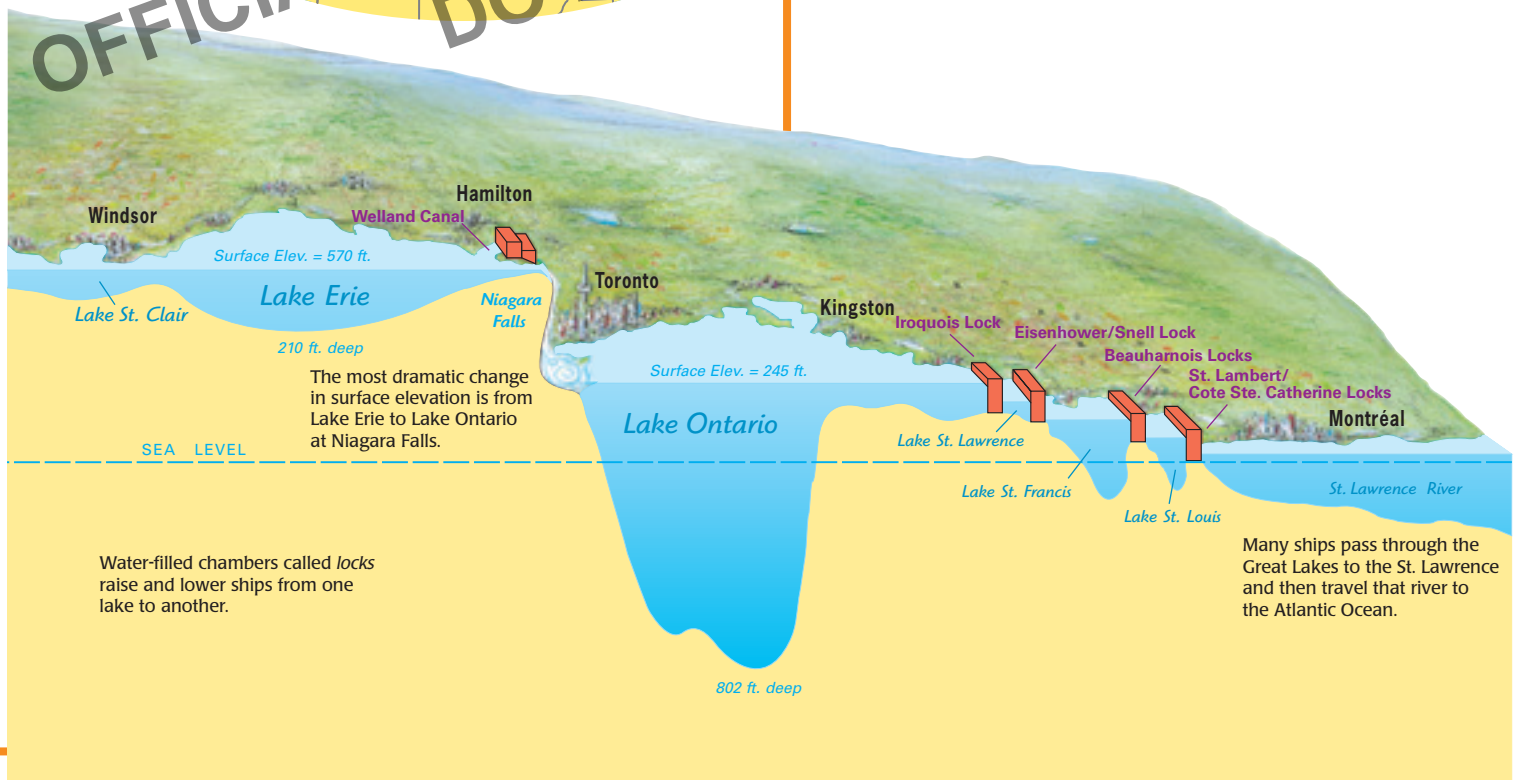
20 to 40

40 to 80

Over 80



p.16





People per Car



p.23

105
Haiti



7
Mexico



3
Canada



2
United States



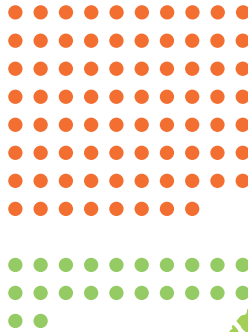
Why call it green?

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. Viking Erik the Red named it Greenland to attract settlers.

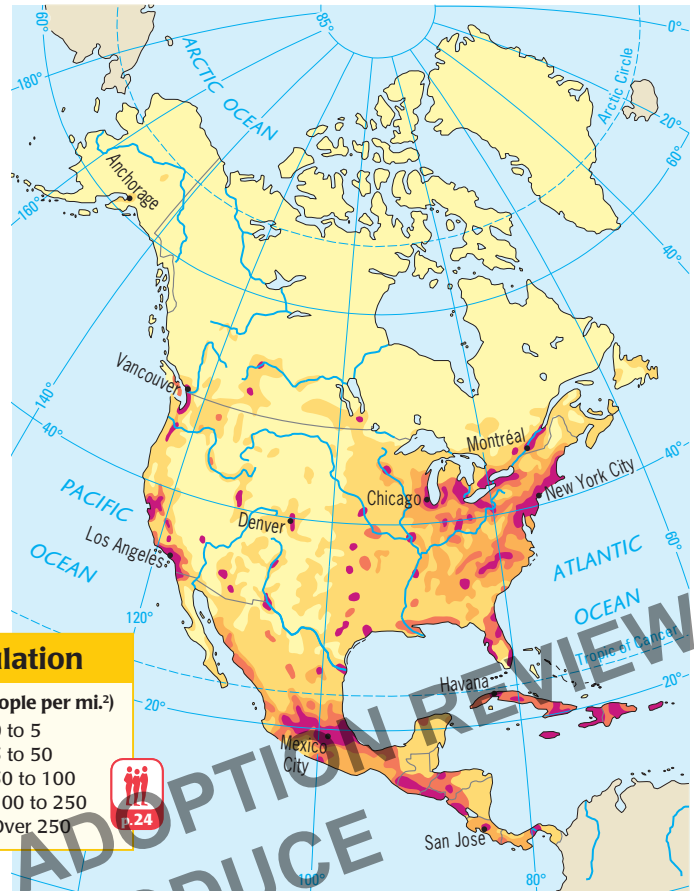
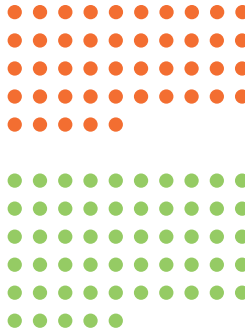


Large areas of North America are still forested. For more information on the impact of forestry in Canada, see page 36.

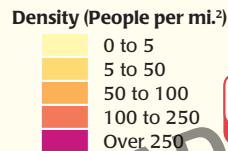
Mexico's Urban & Rural Population



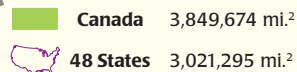
Belize's Urban & Rural Population



Population



Canada's Size and Shape



Focus on

Immigration

Most people in North America have ancestors who *immigrated* from another country.

- The United States and Canada are major destinations for immigrants today.
- Immigrants come to other countries in North America as well, but in much smaller numbers.
- Immigrants are influenced by *pull factors*, such as the hope of better jobs and opportunities.
- Immigrants can also be influenced by *push factors*, such as a desire to escape violence or poverty.

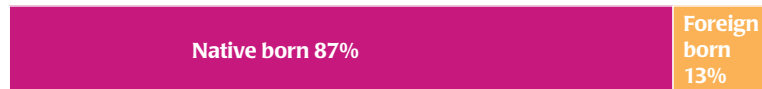


E-BOOK EXTRA

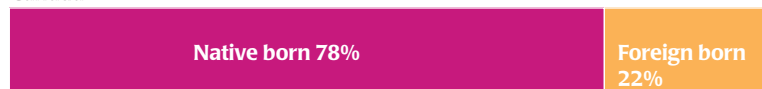
Immigrant's Experience primary source

Immigrant Population

United States



Canada



The ancestors of most North Americans are from Europe. However people from all over the world have moved here.



E-BOOK EXTRA

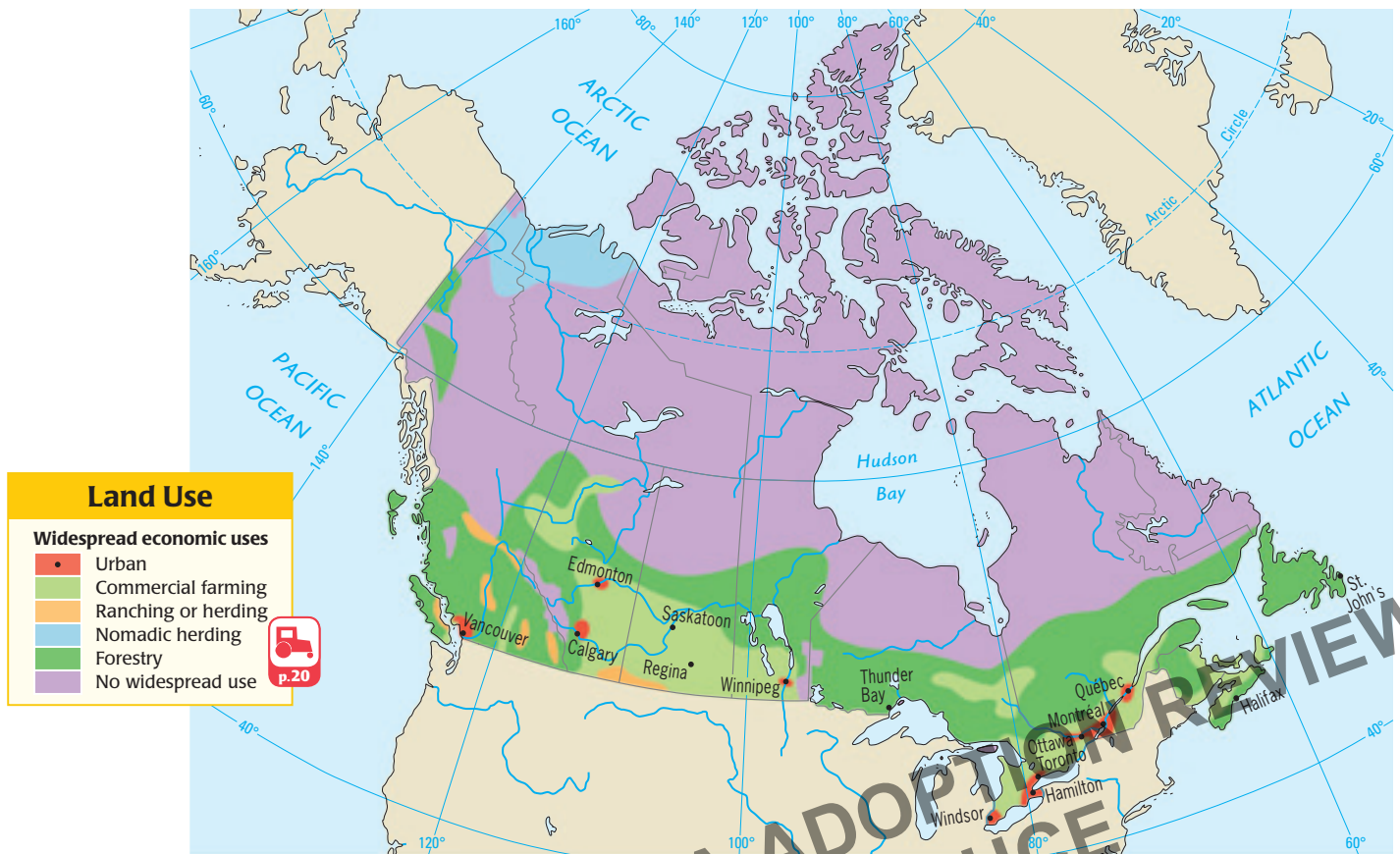
Global Migration map











Focus on

Canada's Resources

Natural resources—minerals, forests, rich soil—are key to the Canadian economy.

- Canada mines more than 60 minerals and metals.
- Canada has 10 percent of the world's remaining forests. It is the second largest exporter of forest products in the world.
- Rich black soil is found in those Canadian provinces that are major producers of wheat, barley, and canola. All three of these agricultural products are exported.

Canada's Wheat

Total Production

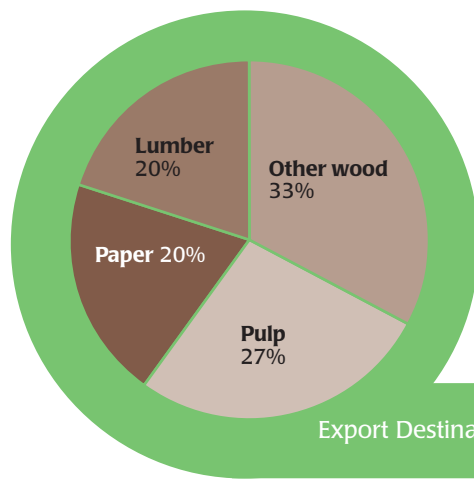


27% Domestic Consumption

Exports

Forestry Exports

Export Products

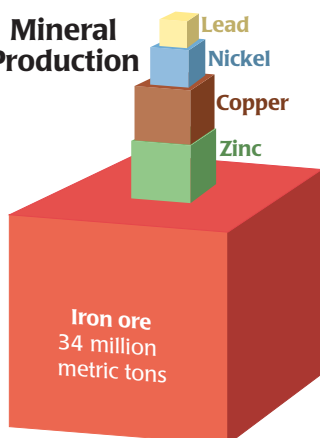


Export Destinations

[E-BOOK EXTRA](#)
World Trade Routes map

United States 72%
China 8%
European Union 6%
Japan 5%
South Korea 2%
all others 7%

Mineral Production





Toronto is the largest city in Canada. Its landmarks include the CN Tower. Can you find the CN Tower in the cross section of the Great Lakes on pages 28–29?





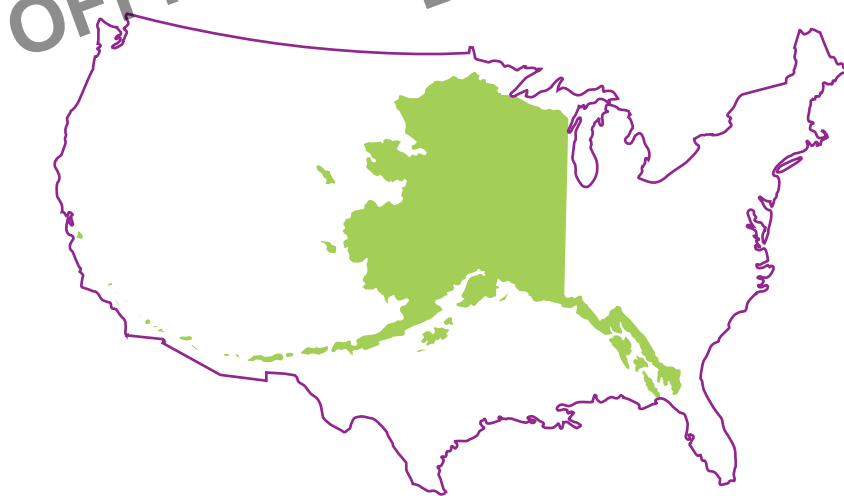
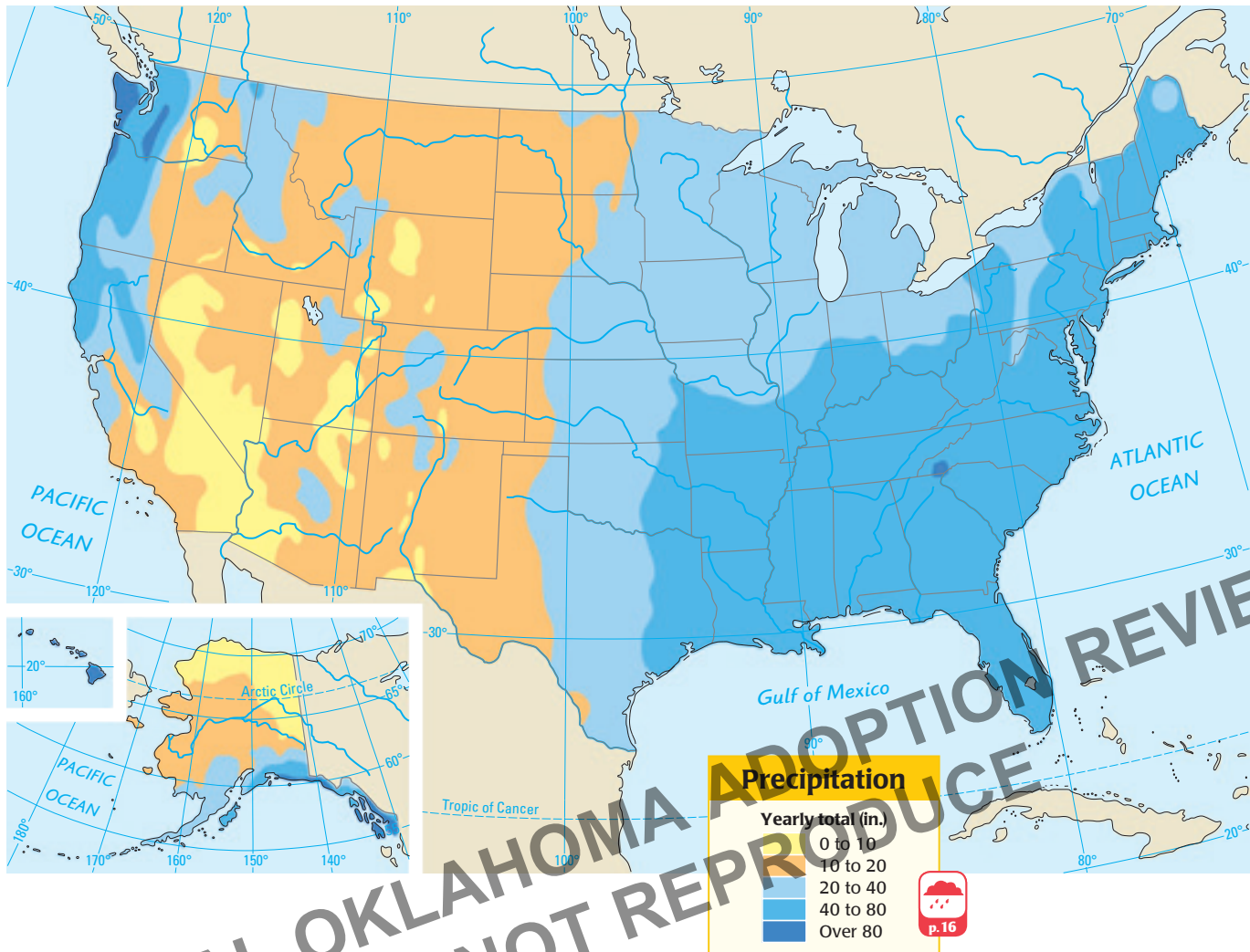










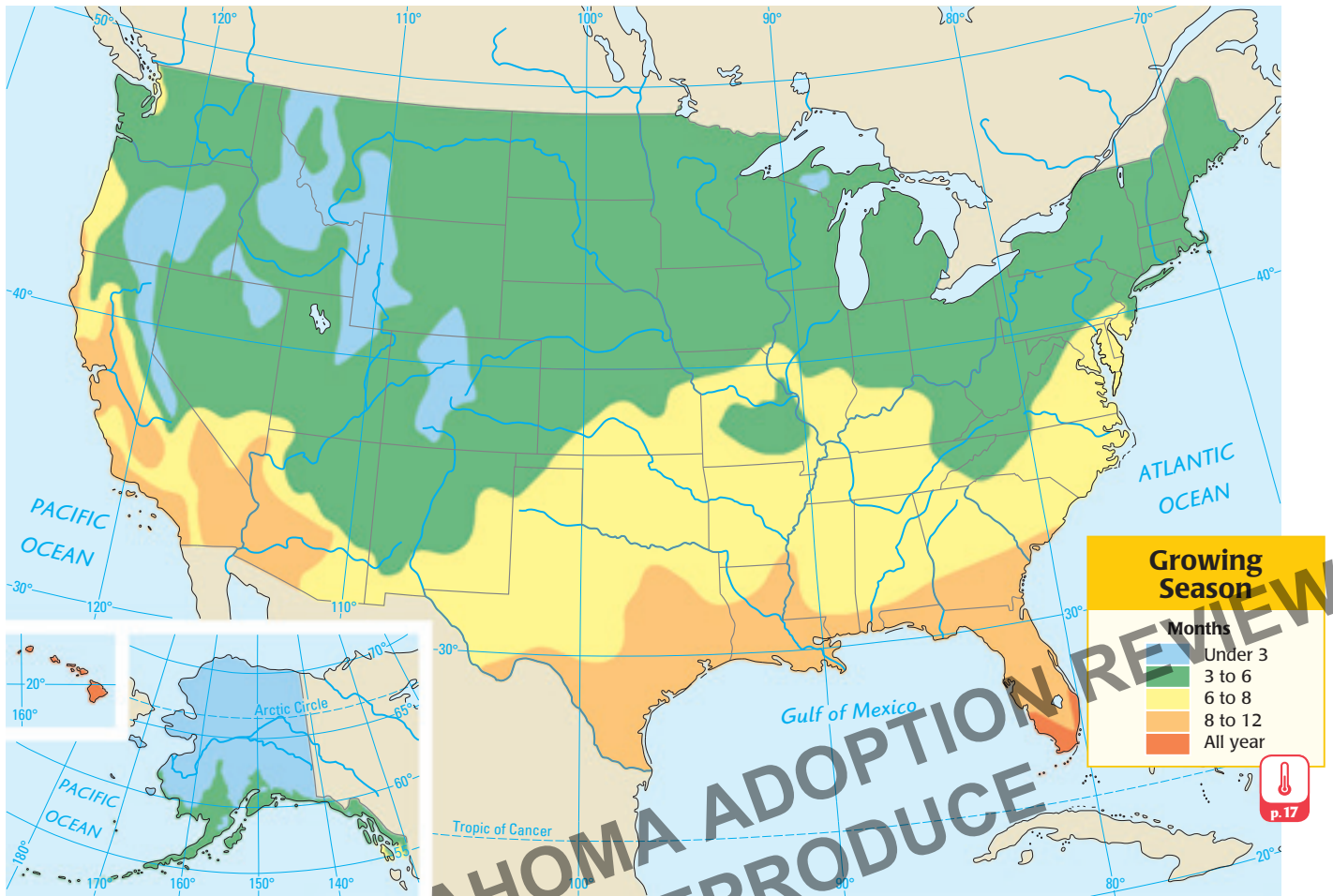


Alaska's Size and Shape

	Alaska	591,004 mi. ²
	48 States	3,021,295 mi. ²



Snow blankets Mt. Hood in Oregon. Because it is in the Cascade Range, it has a Highland climate. It is colder than Portland to the west.



Focus on Regions

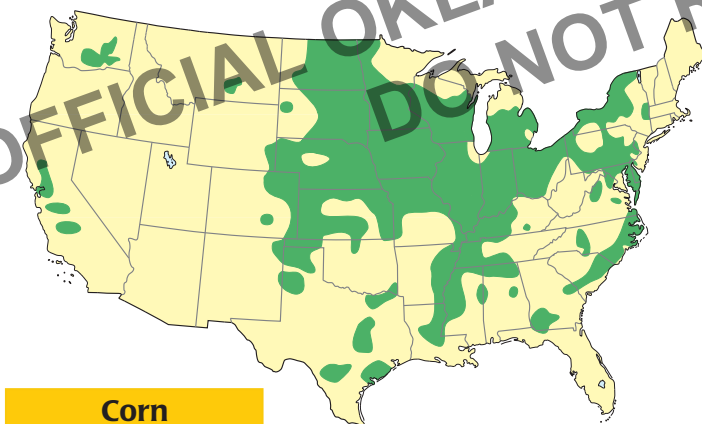
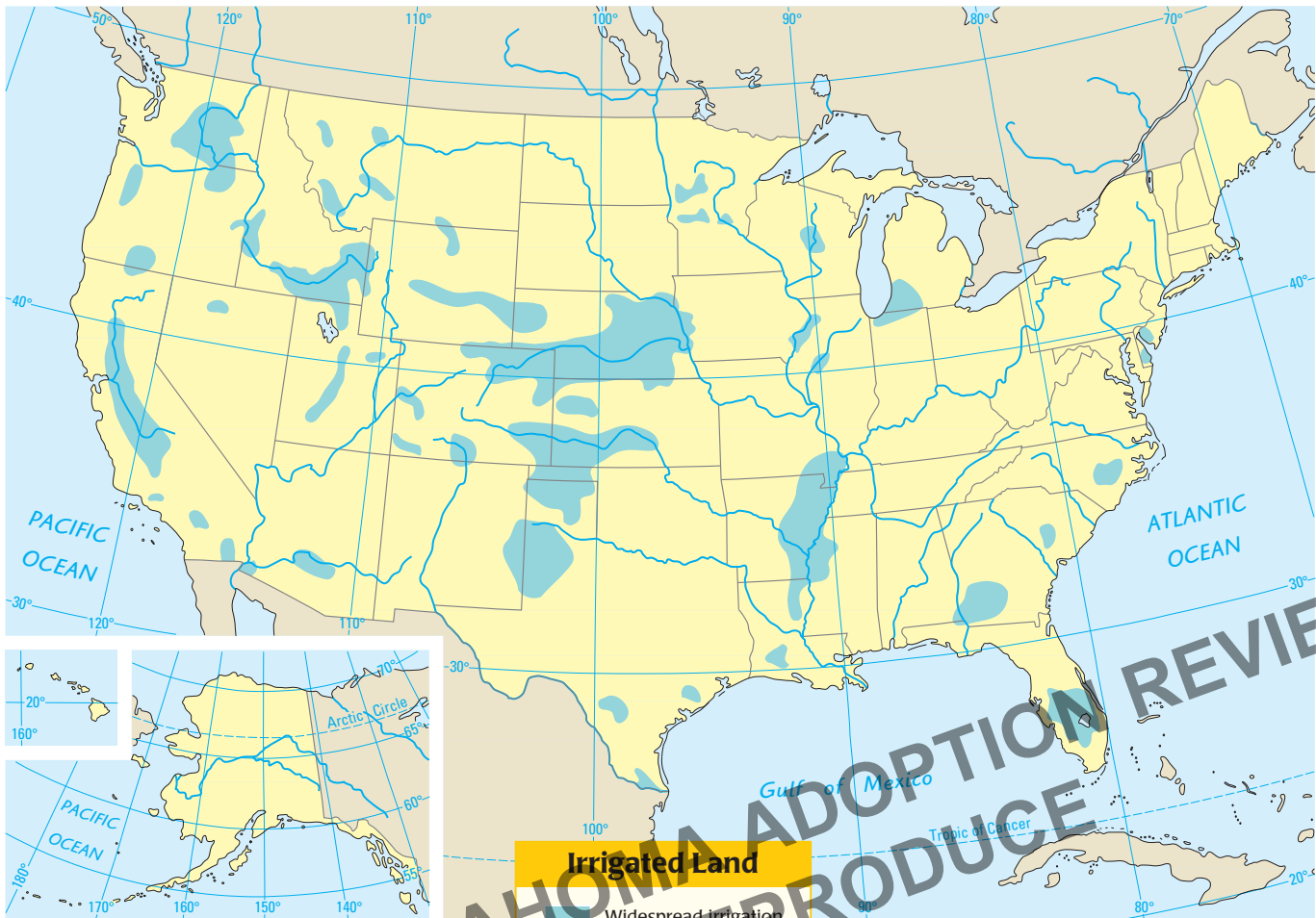
A region is an area that is different than the areas around it.

- This map shows regions based mainly on geographical location.
- Other regions can be based on wetness or dryness, on hot and cold weather, or on any number of other factors.
- A place can be in several regions. For example, the state of Florida is in the Southeast region. It's a Gulf Coast state. It's on the Atlantic. It's also in a wet region and a hot region.

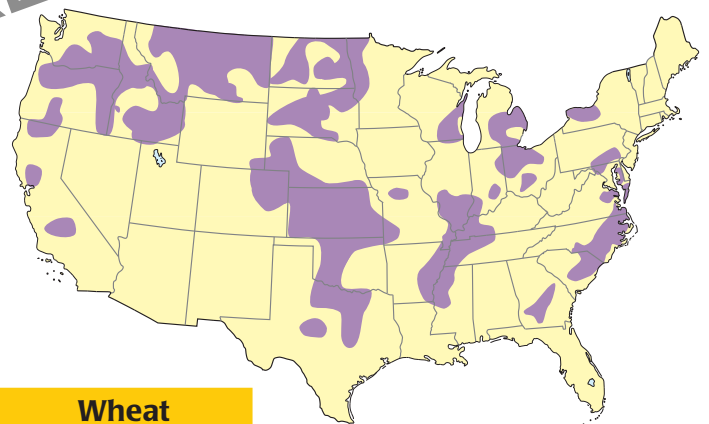


U.S. Regions

MIDWEST	Large region
Pacific Northwest	Smaller region

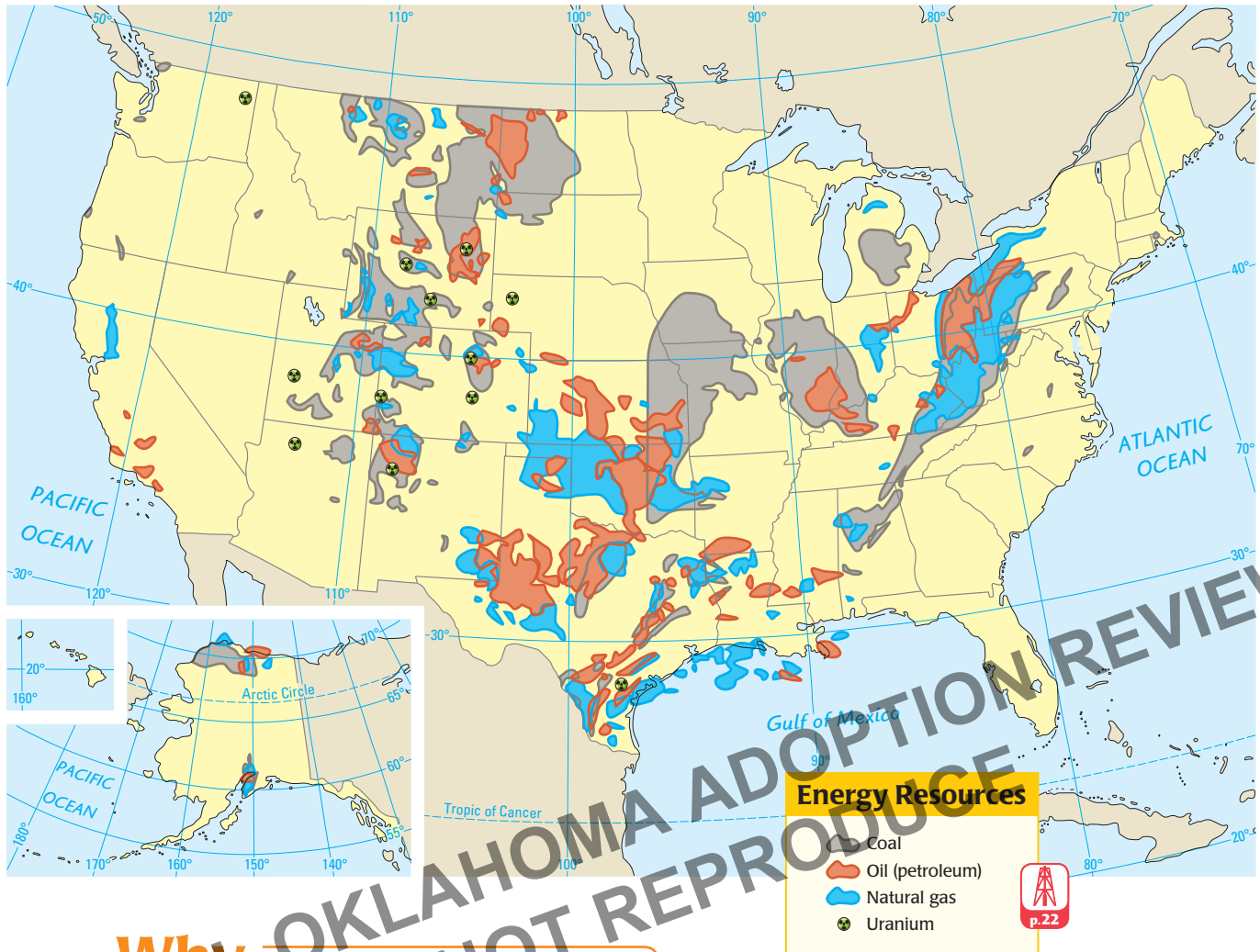


United States' Corn
Total Production



United States' Wheat
Total Production



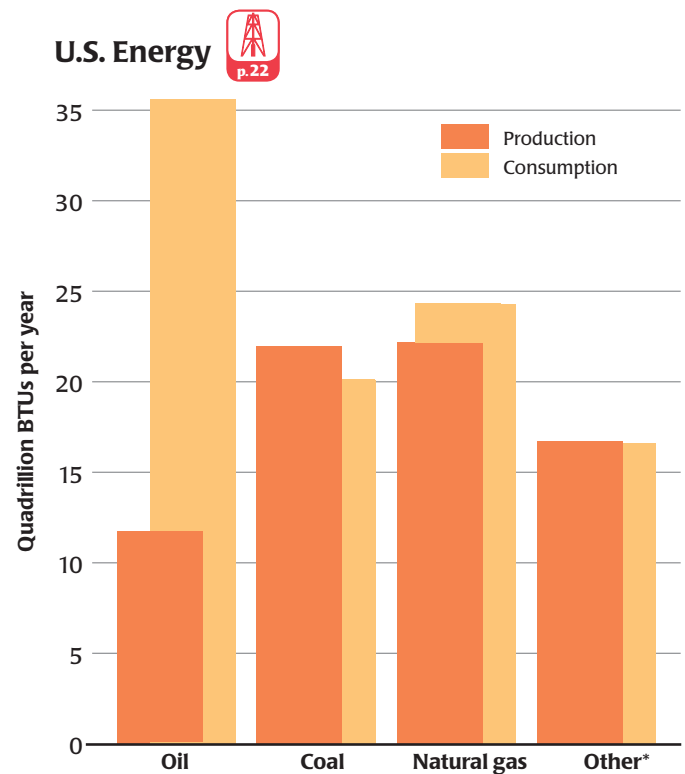


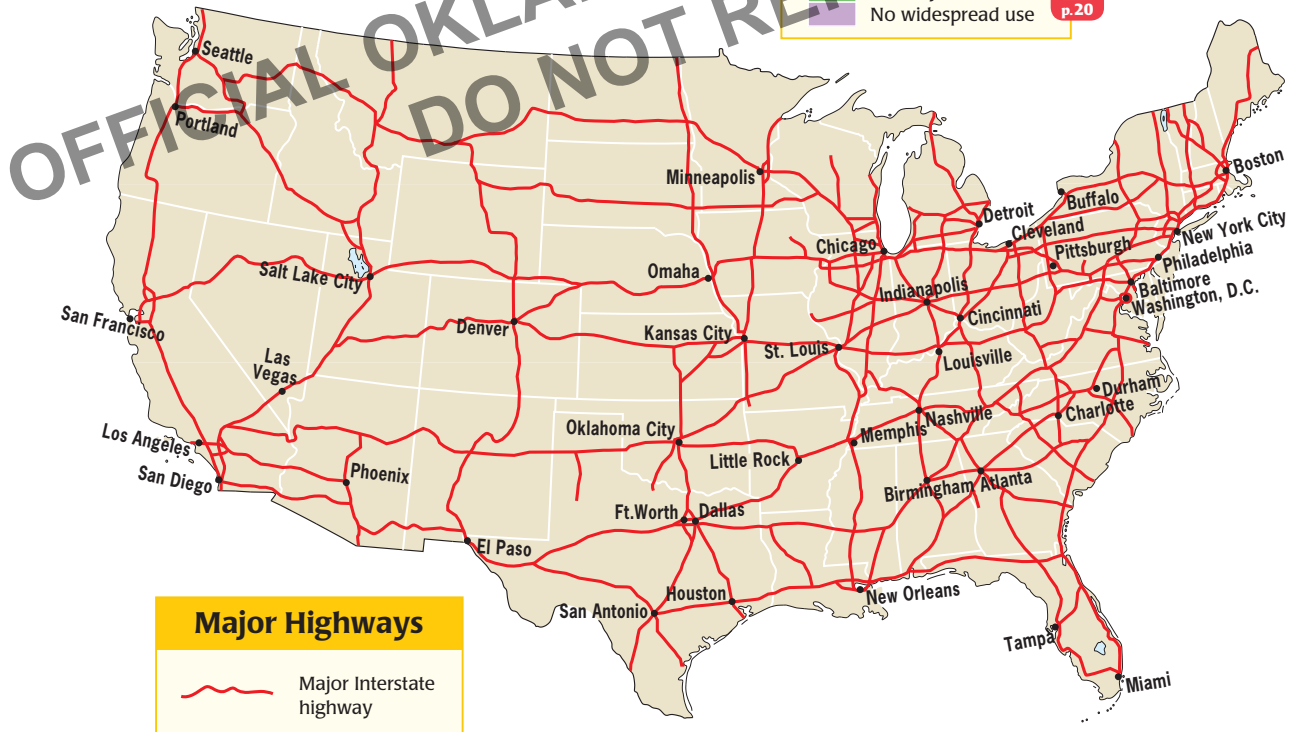
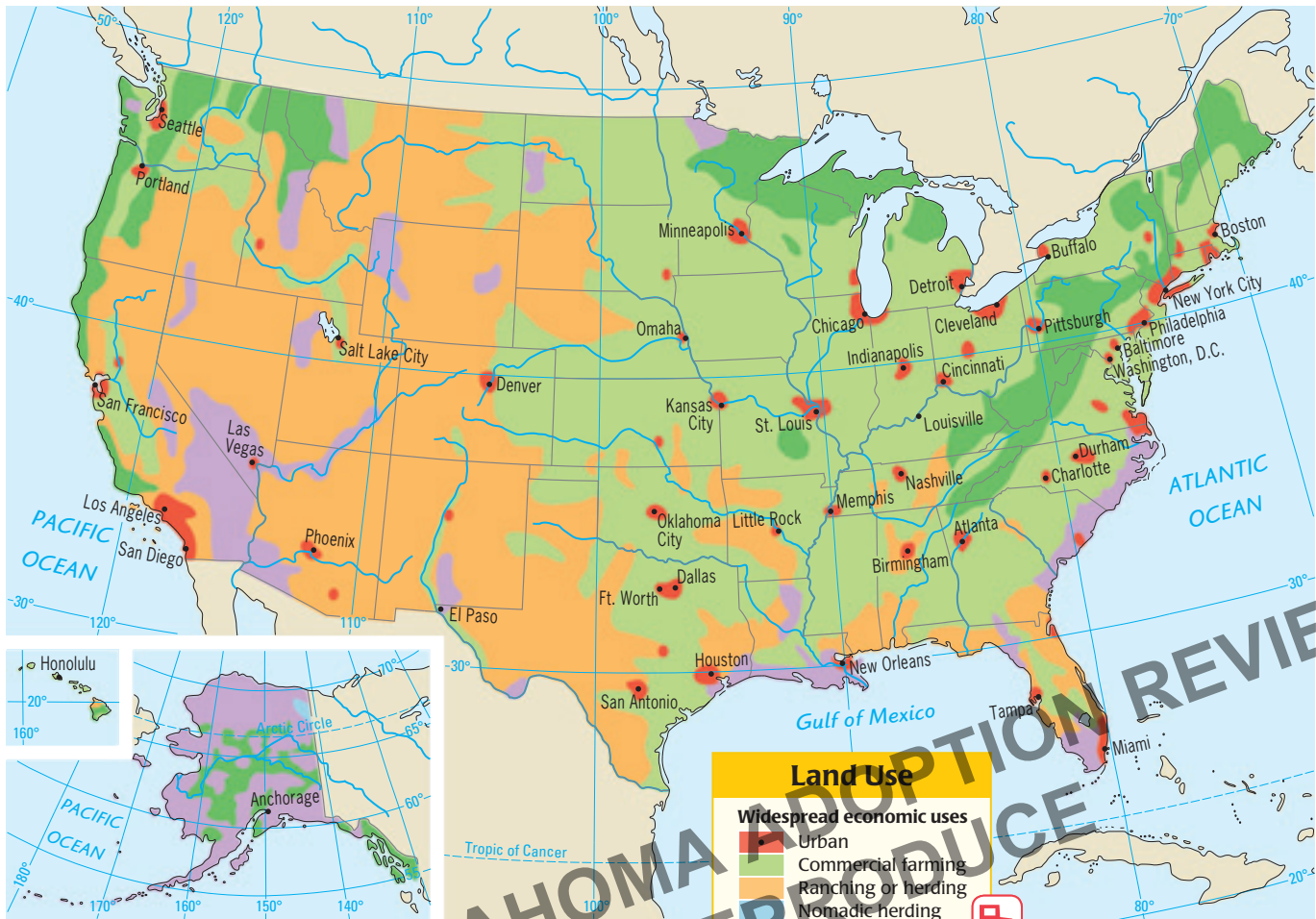
Why do we need oil to grow crops?

In much of the world, farm work relies on muscle power. But in wealthier countries 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.













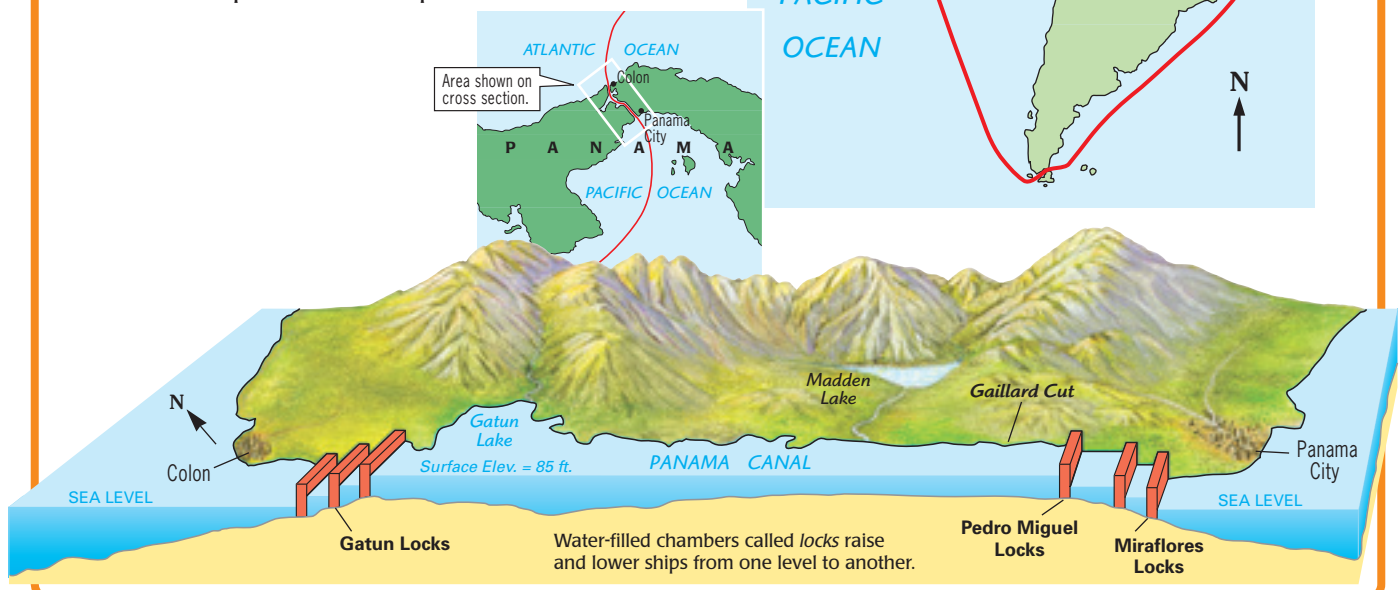


Focus on

the Panama Canal

The 48-mile Panama Canal connects the Atlantic Ocean and Pacific Ocean.

- Most ships traveling between Atlantic and Pacific ports pass through the Panama Canal.
- The canal saves ships thousand of miles and several days of travel.
- However, the canal's popularity and narrowness makes it a potential "choke point."





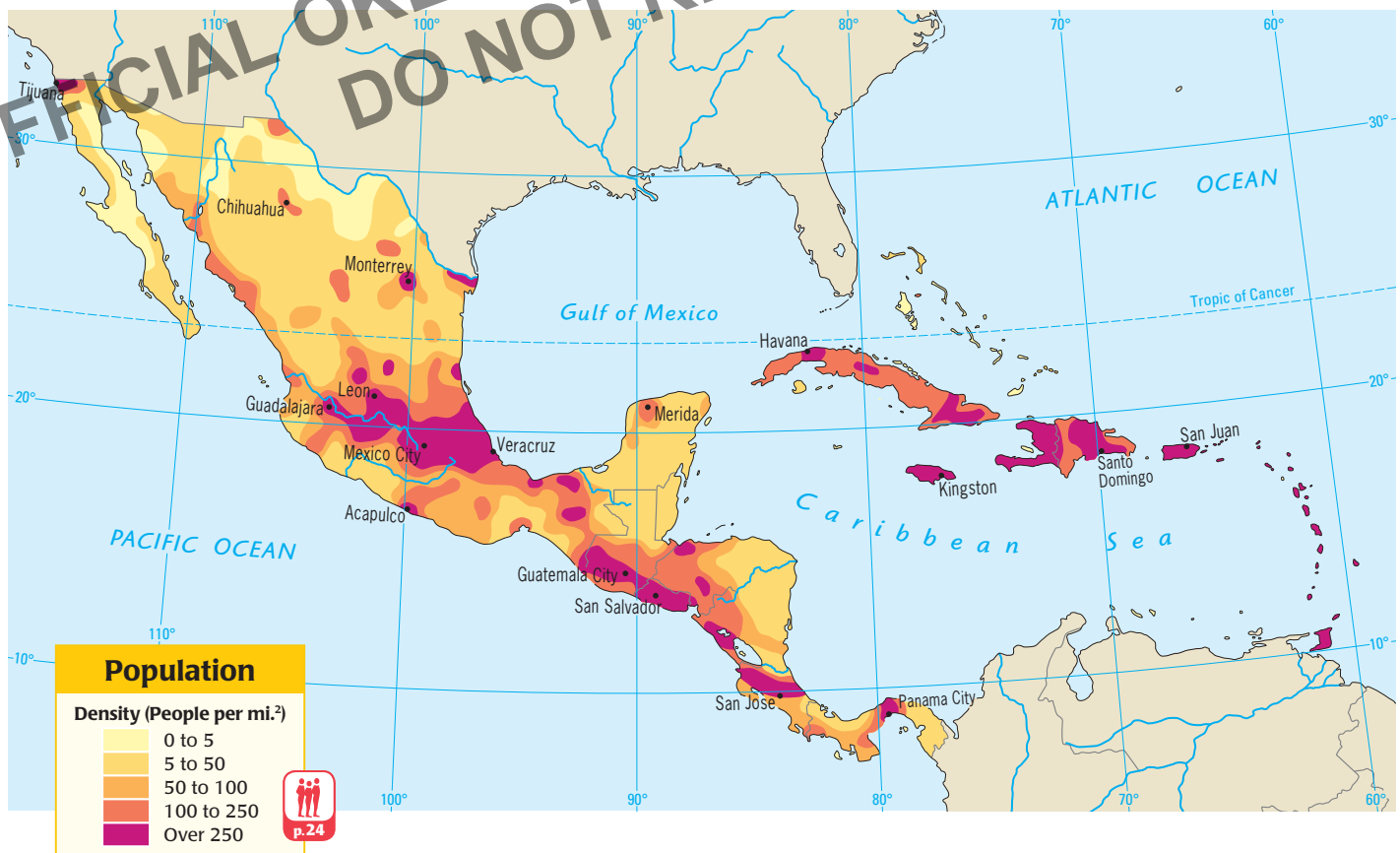
Workers harvest sugar cane in Martinique. Sugar cane was one of the early crops brought to the Caribbean by the Spanish.

Why is the Caribbean different?

In the 1500s, most Native Americans on Caribbean islands died from European diseases and slave labor. European colonizers quickly replaced them with enslaved Africans. So people in the Caribbean often have African ancestors, while those in Central America have Native American ancestors.



Mexico City was built on the site of the Aztec city of Tenochtitlan. These Aztec ruins were recently unearthed in the city.









Chile is the leading exporter of grapes. Different grapes prefer different growing conditions. Chile's mix of growing seasons makes it possible to grow many varieties of grapes.

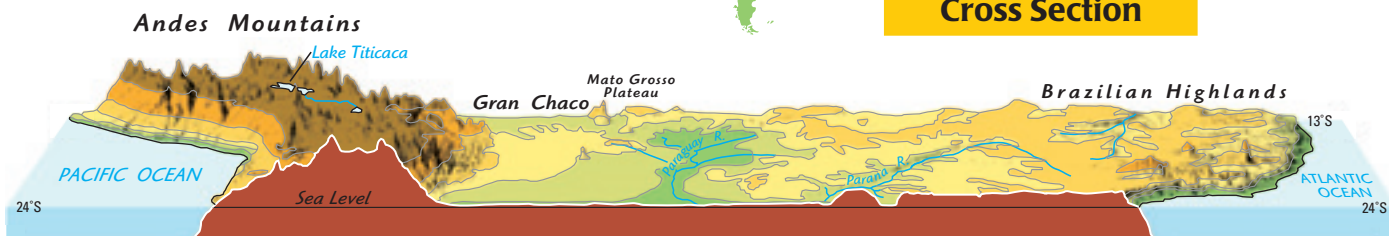


Snow in July?

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.



Cross Section



Focus on the Amazon Rain Forest

The Amazon Rain Forest, the largest in the world, is shrinking.

- Tropical rain forests are an important source of the oxygen we breathe.
- The Amazon Rain Forest is biodiverse. It has more plant and animal species than anywhere else on Earth.
- Large areas of the Amazon Rain Forest have been *deforested*, cleared for farming and mining.
- Deforestation contributes to global climate change.

 **E-BOOK EXTRA**
Deforestation
primary source

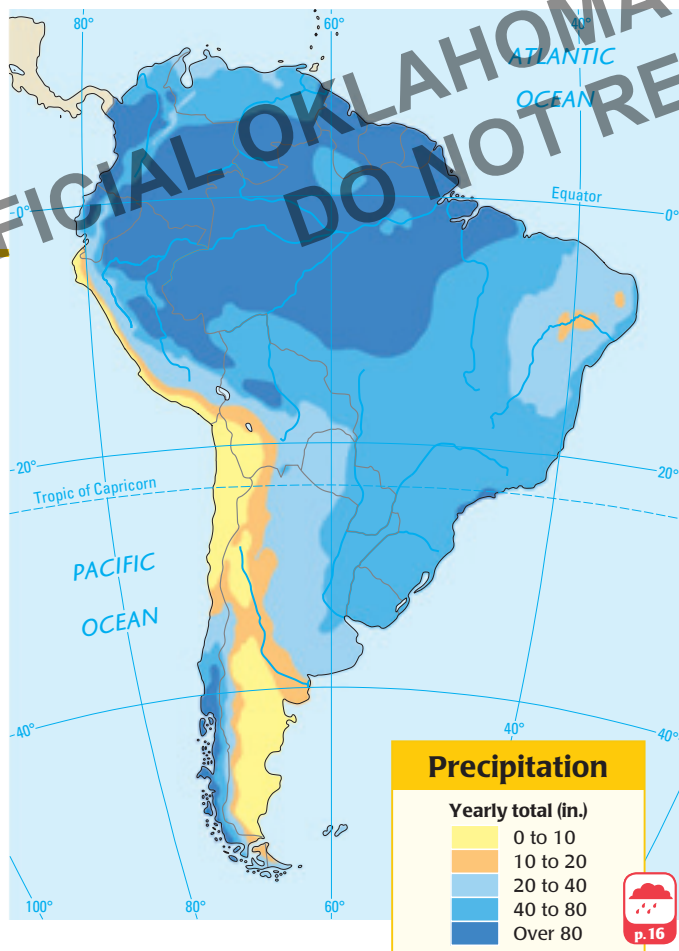


The Amazon Rain Forest was cleared here to make way for a road, an oil pipeline, and a town. How will these changes impact the rain forest?

Shrinking Rain Forest

- Deforested area since 2000
- Remaining rain forest

 **E-BOOK EXTRA**
Tropical Rain Forests map



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



What is farmed there?

In western South America, elevation plays a big role in land use. At low elevations, commercial farms grow bananas, sugar, and cacao. As the elevation increases, crops change to coffee and corn and then potatoes and wheat. Above 10,000 feet, only llamas, alpacas, and sheep can be raised.



Argentina's dry climate is suited to ranching. Cowboys in Argentina are called *gauchos*.



Brazil's Size and Shape

	Brazil	3,286,500 mi. ²
	48 States	3,021,295 mi. ²

People per Car

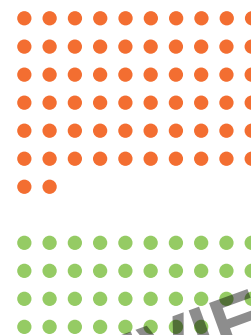
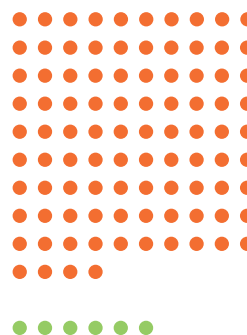




Venezuela's Urban & Rural Population



Paraguay's Urban & Rural Population



Focus on

Latin America

The people of South America and Middle America are known as *Latin Americans*.

- Most Latin Americans speak languages based on Latin, such as Spanish, Portuguese, or French.
- Half of all Latin Americans live in Brazil. Most Brazilians speak Portuguese.
- A few countries in Latin America speak non-Latin languages, such as English or Dutch.
- Spanish, Portuguese, French, English, and Dutch were the languages of the Europeans who colonized the region.



Language

- Spanish, Portuguese, French
- Other (non-Latin)

E-BOOK EXTRA
Languages of the Americas map



The Spanish, Portuguese, and French introduced Catholicism to Latin America. Spanish colonizers completed this church in Quito, Ecuador, in 1605.







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

The huge Sahara divides northern Africa from the rest of Africa.

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

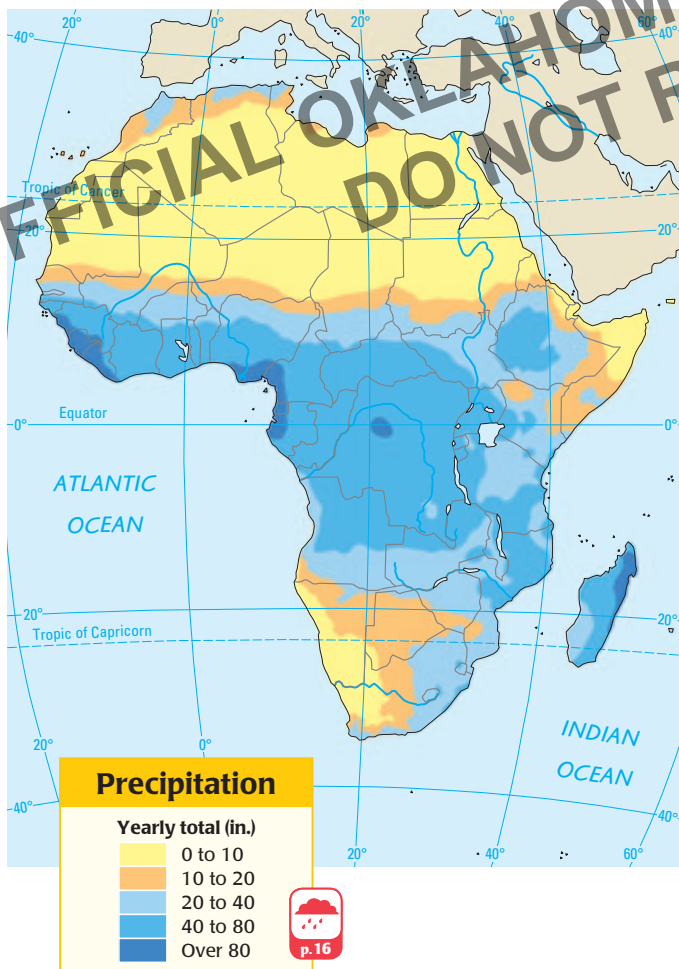
 **E-BOOK EXTRA**
Sahara Journey primary source

The Sahara's Size and Shape

	Sahara	3,500,000 mi. ² (approx.)
	48 States	3,021,295 mi. ²



OFFICIAL OKLAHOMA ADOPTION REVIEW
DO NOT REPRODUCE



How can a desert have a shore?

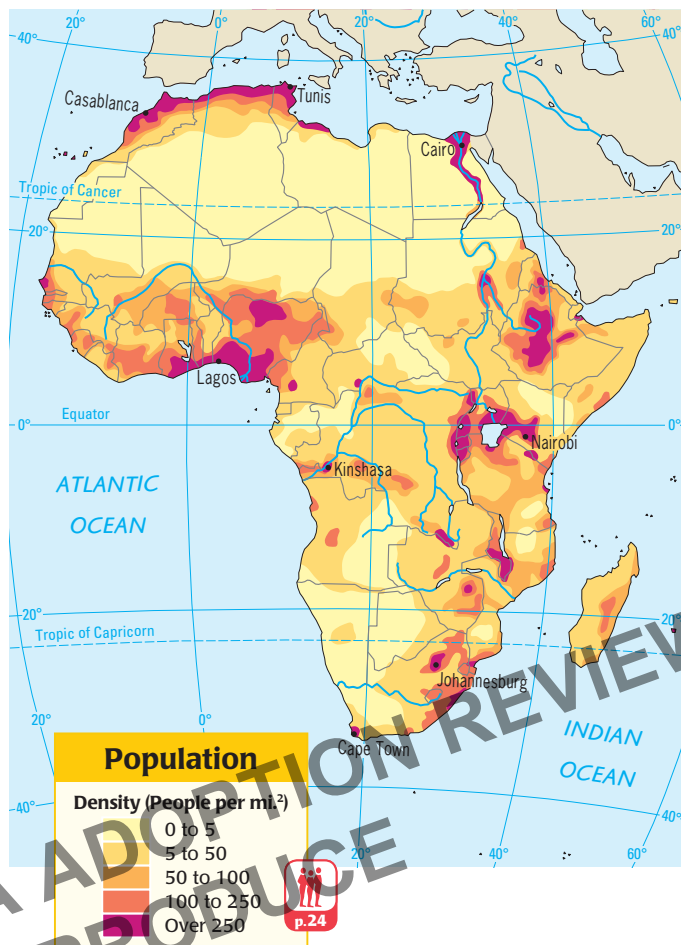
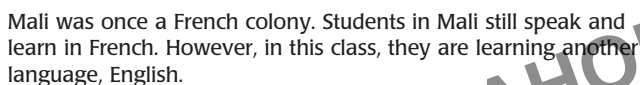
Just south of the Sahara is a dry grassland called the *Sahel*—Arabic for “shore.” Rainfall in the Sahel varies so much that the boundary between the Sahel and the Sahara shifts, like waves on a shoreline.



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

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.

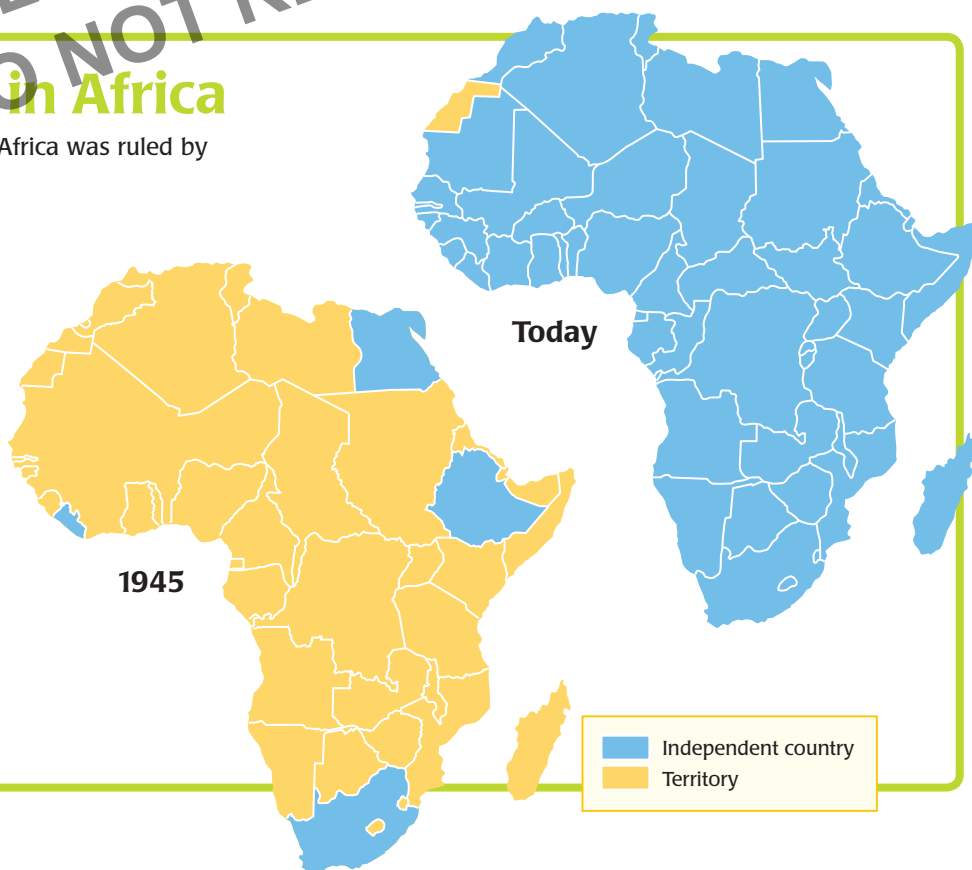
 E-BOOK EXTRA
Official Languages of Africa map



Between 1884 and 1945, most of Africa was ruled by European countries.

- In 1945 only Liberia, Egypt, Ethiopia, and South Africa ruled themselves.
- From 1945 to 1968, 38 African countries won their independence.
- Twelve more African countries gained their independence between 1973 and 2011.
- Which African country is still ruled by another government?

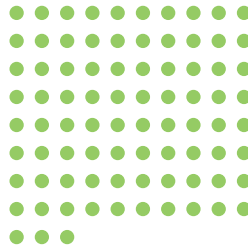
 **E-BOOK EXTRA**
African Independence
primary source



Algeria's Urban & Rural Population



Ethiopia's Urban & Rural Population



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



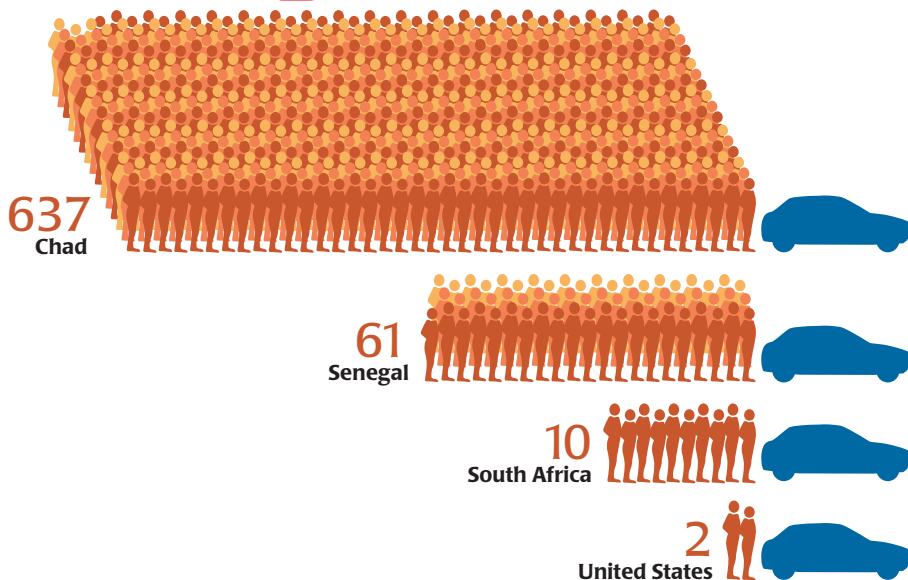
Land Use

Widespread economic uses

- Urban
- Commercial farming
- Subsistence farming
- Ranching or herding
- Nomadic herding
- Forestry
- No widespread use

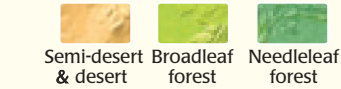
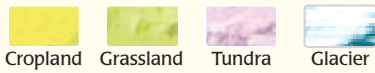


People per Car

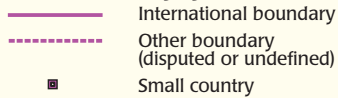


Nairobi is the capital of Kenya and a major business center for East Africa.

Land Cover Map Europe



Boundary Symbols



Scale

0 100 200 300 400 miles

1 inch stands for 275 miles

Detailed legend on page 3





Political Relief Map Europe

Boundary Symbols

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

City Symbols

- Hamburg** ● A city's relative size is shown by the size of its symbol and lettering.
- Seville** ●
- Orel** ●

- Prague** ⊗ National capital

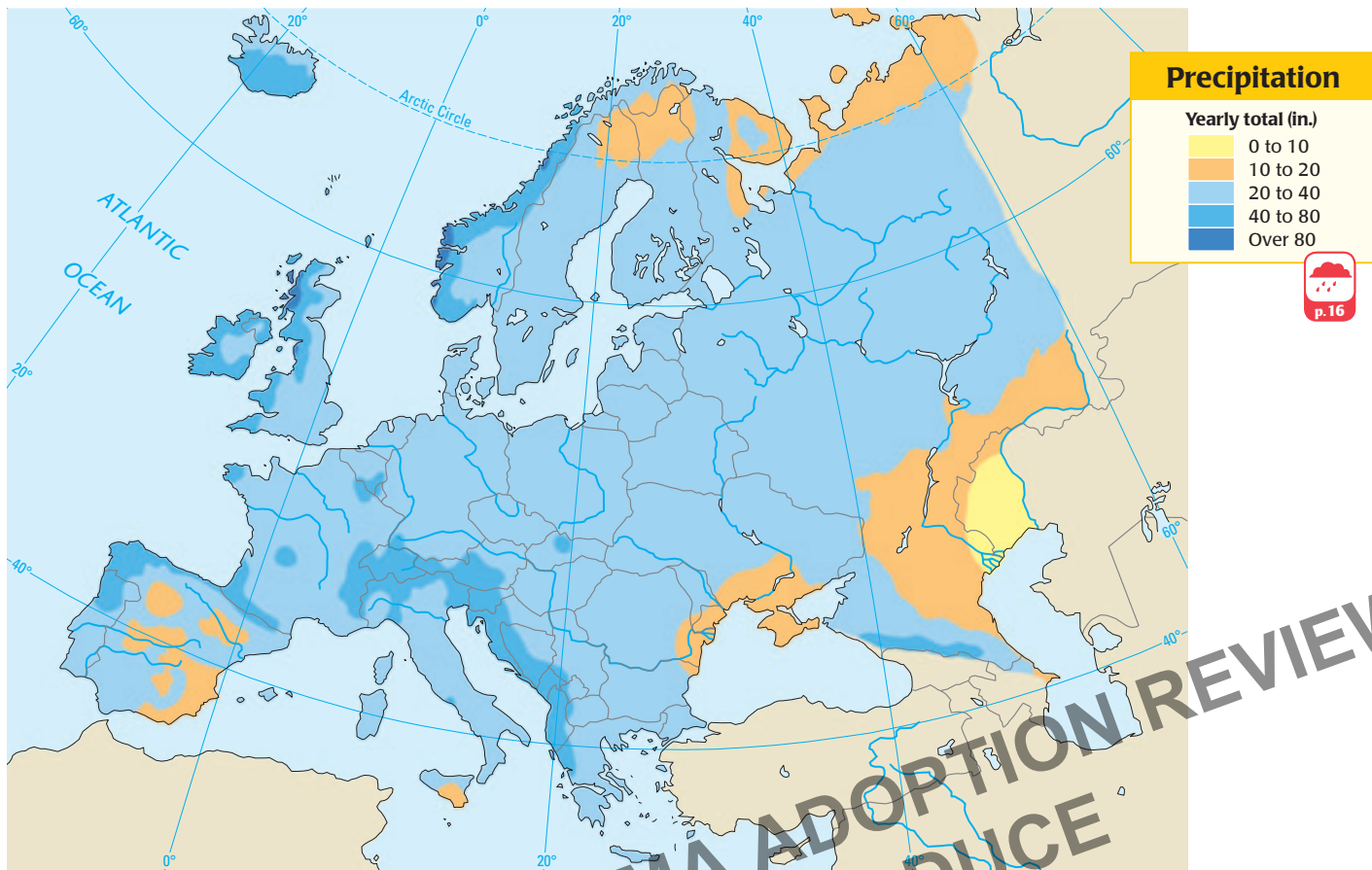
Scale

0 100 200 300 400 miles
1 inch stands for 275 miles

Detailed legend on page 3







Focus on

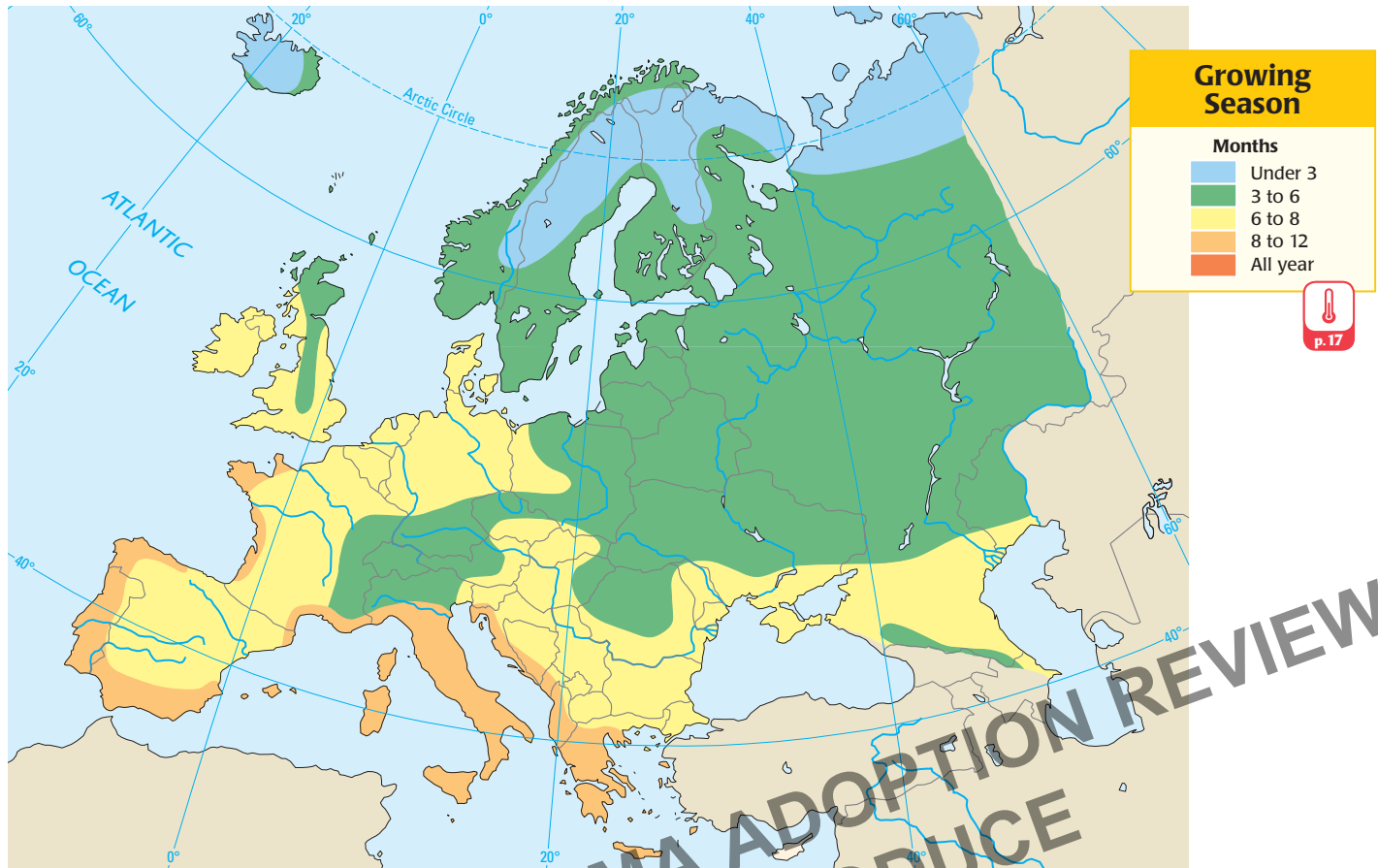
Highways of Water

The Rhine and Danube Rivers and the rivers and canals that flow into them form a vast inland waterway.

- This navigable waterway connects the North Sea in the northwest with the Black Sea in the southeast.
- Barges and boats use this waterway to provide cheap transportation for raw materials and finished goods.
- The network's busiest river is the Rhine.



A river barge passes Paris, France. The city sits on the banks of the busy Seine River, which flows into the English Channel.



France's Wheat
Total Production



49%
Domestic
Consumption

51%

Exports



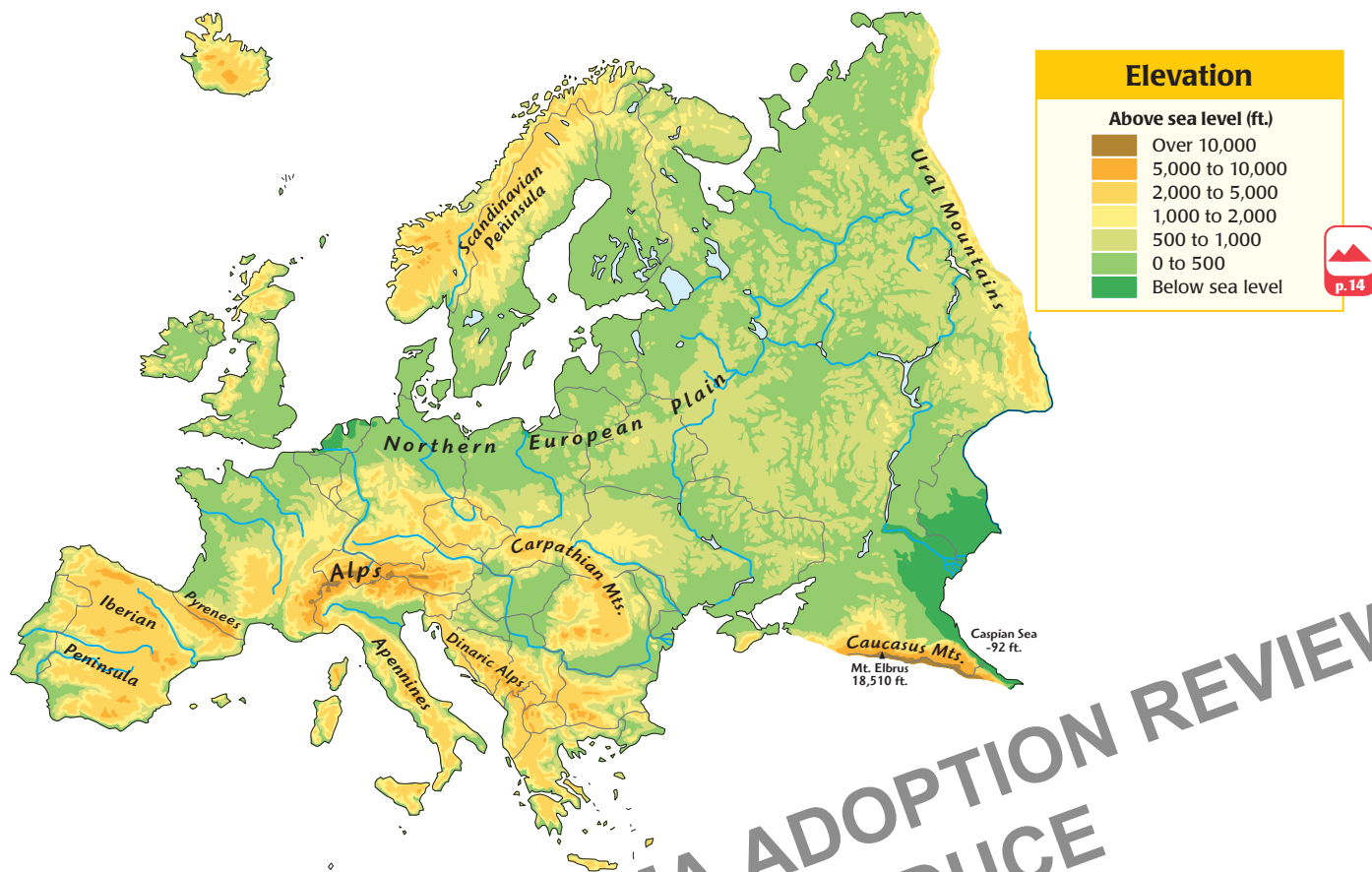
Europe's Size and Shape

	Europe	4,033,000 mi. ²
	48 States	3,021,295 mi. ²

E-BOOK EXTRA
Continent Area graph



Most of Europe has a climate that favors farming. Olives need a long, hot growing season, so they grow best in the Mediterranean area.



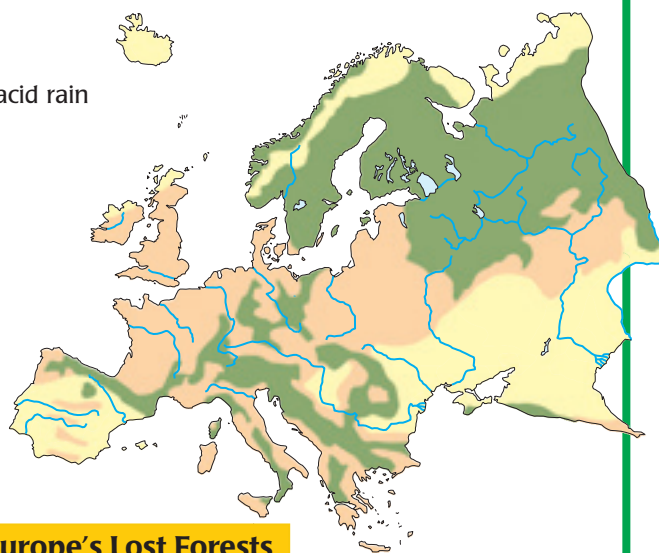
Focus on

Environmental Damage

For centuries Europeans changed the land 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.
- This pollution can result in smog which can kill people and acid rain which can damage trees, statues, and buildings.
- Recent laws have helped restore cleaner air and water.

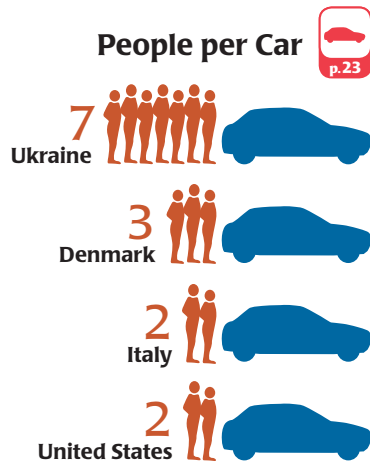
 **E-BOOK EXTRA**
London Death Fog primary source



Acid rain damaged this forest in Poland. Acid rain is often the result of burning fossil fuels, such as coal.

Where was that one made?

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



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



Land Use

Widespread economic uses

- Urban
- Commercial farming
- Subsistence farming
- Ranching or herding
- Nomadic herding
- Forestry
- No widespread use



p.20



European Union

Member country

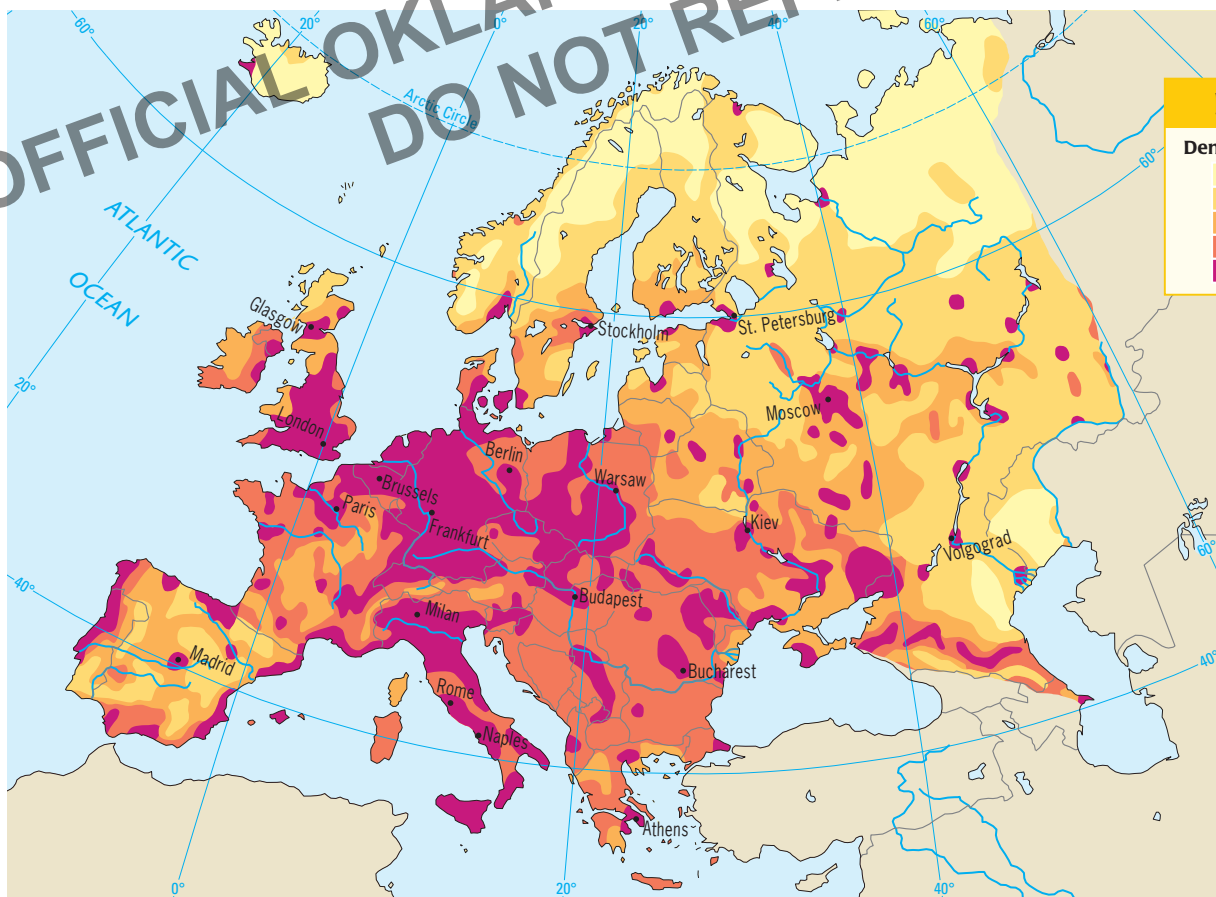
The European Union exists to encourage prosperity, security, and cooperation among its members.

E-BOOK EXTRA
European Union speech
primary source

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.

E-BOOK EXTRA
English-Speaking World map





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.

France's Urban & Rural Population



Portugal's Urban & Rural Population



Focus on the United Kingdom

The United Kingdom is a country on the British Isles.

- The British Isles include the islands of Great Britain and Ireland, as well as several smaller islands.
- The United Kingdom consists of England, Scotland, and Wales on Great Britain and Northern Ireland on Ireland. The Isle of Man and Channel Islands are also part of the country.
- The southern part of the island of Ireland is a separate country also called Ireland. Talk about confusing!

Political Relief Map United Kingdom

- ⊙ National capital
- ★ Secondary capital

Scale

0 50 100 miles
1 inch stands for 153 miles



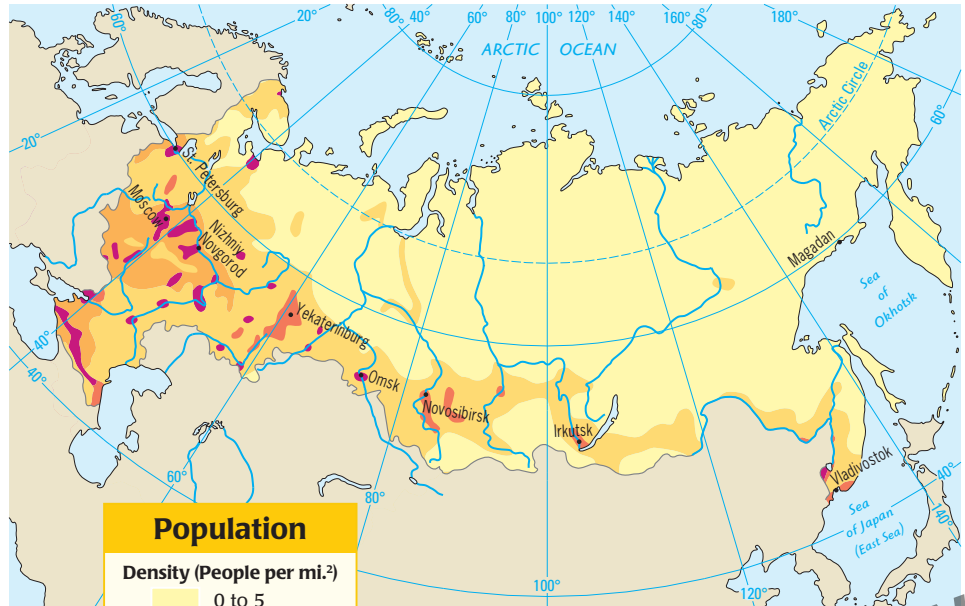
Edinburgh is the capital of Scotland. Its modern Parliament Building stands in sharp contrast to the older buildings in Edinburgh.

E-BOOK EXTRA
Parliamentary Government chart

E-BOOK EXTRA
Presidential Government chart



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



Russia's Wheat
Total Consumption

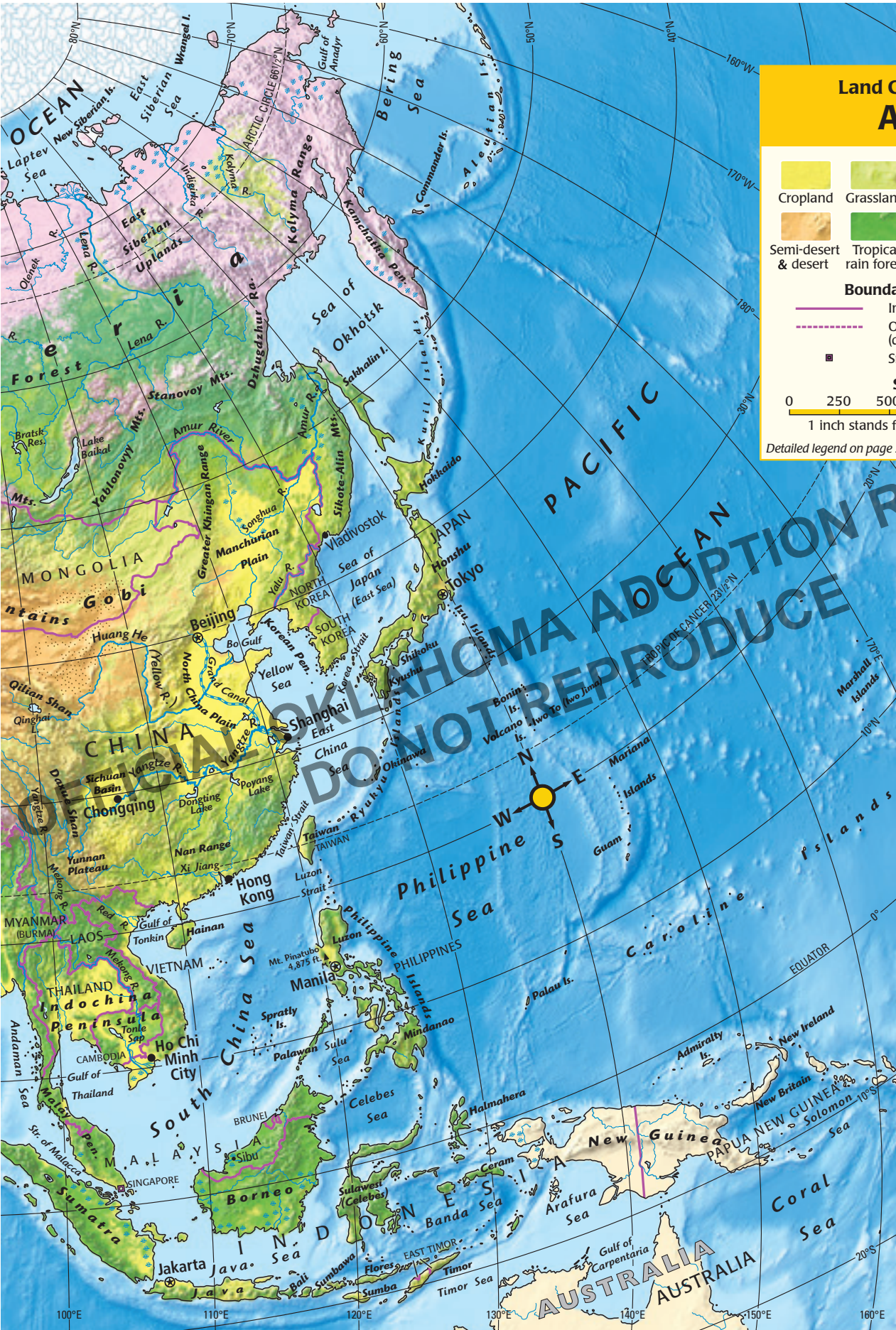


Soviet Union — what's that?

The Soviet Union 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. The border of the Soviet Union is shown in red on the map to the left.







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

0 250 500 750 1000 miles

1 inch stands for 680 miles

Detailed legend on page 3





Political Relief Map

Asia

Boundary Symbols

.....

International boundary

Other boundary (disputed or undefined)

■

Small country

City Symbols

Karachi ●

Vladivostok ●

Aden ●

Tokyo ⊗

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

National capital

Scale

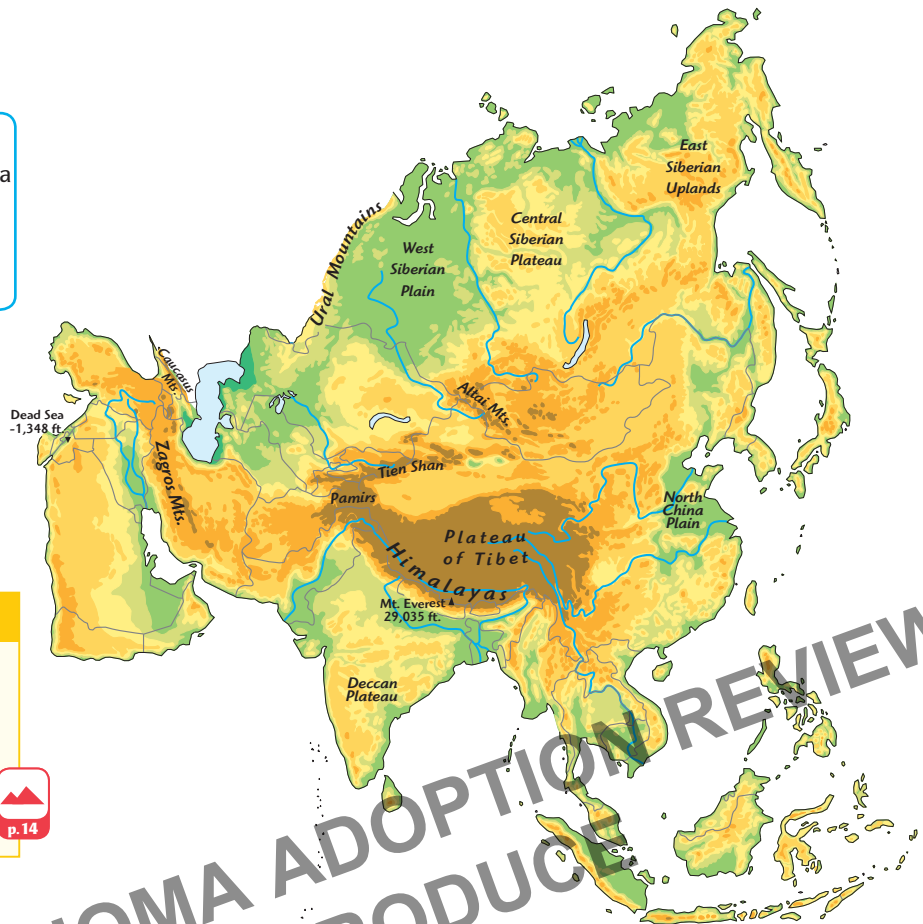
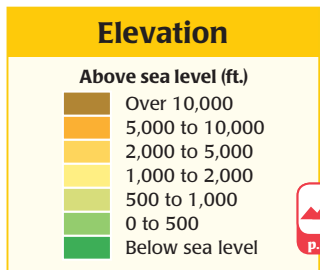
02505007501000 miles

1 inch stands for 680 miles

Detailed legend on page 3

How low can you go?

You can go more than a quarter-mile below sea level. The coast of the Dead Sea is the lowest land on Earth at 1,385 feet below sea level. The Dead Sea is located in southwestern Asia, between Israel and Jordan. (See page 95.)



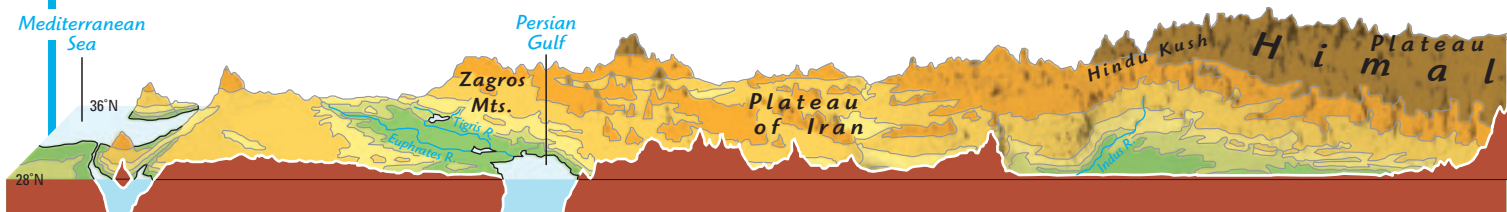
A glacier flows down a valley in the Himalayas. In Sanskrit, the ancient language of India, *Himalaya* means “House of Snow.”

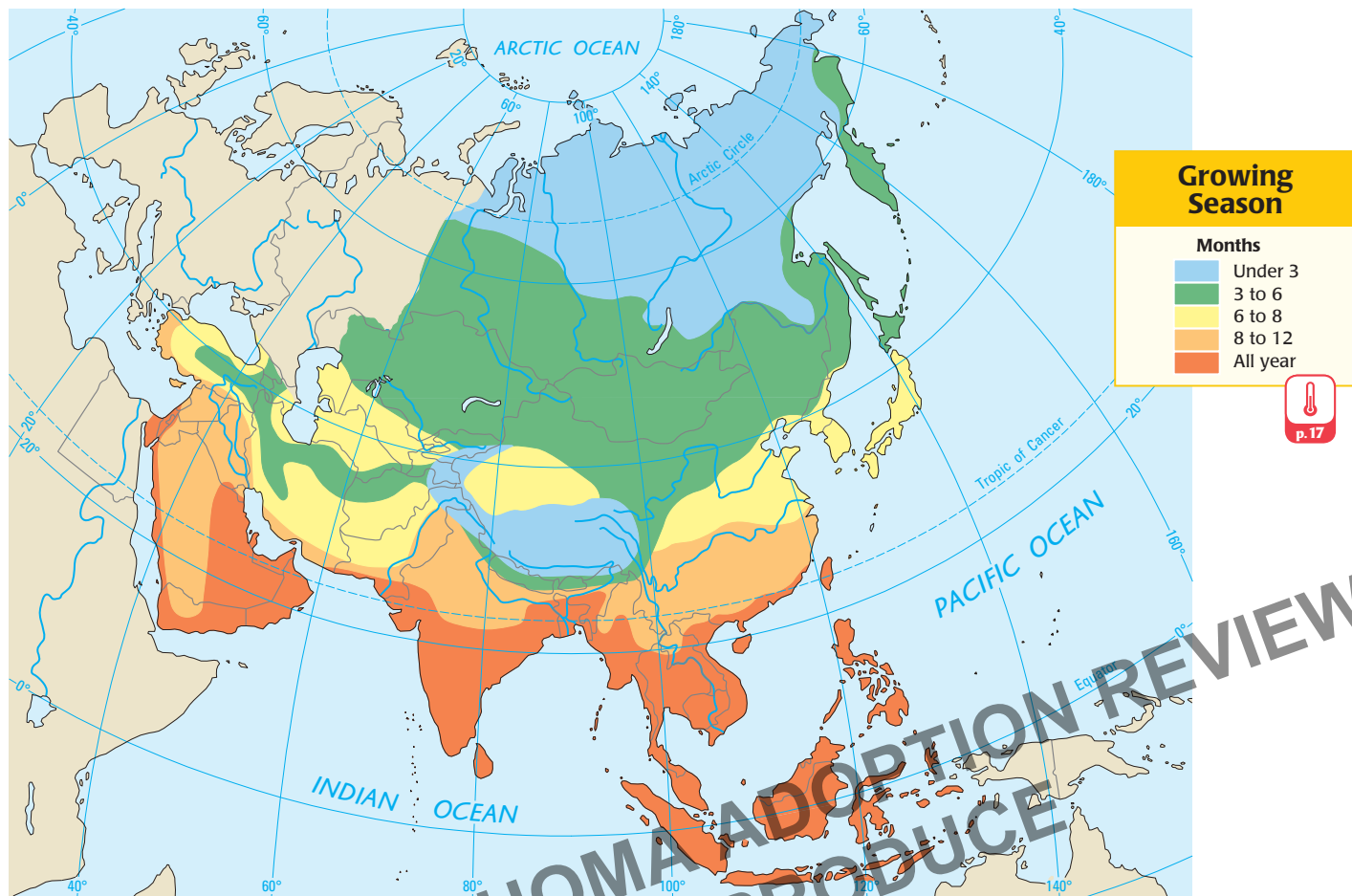
Focus on the Himalayas

The Himalayas are the world’s highest mountain range.

- Mt. Everest, the highest peak in the world, as well as hundreds of other towering peaks are in the Himalayas.
- The Himalayas form a massive barrier along northern Pakistan, India, Nepal, and Bhutan and southern China.
- To their north is China’s high, dry Plateau of Tibet—the world’s highest plateau.

 **E-BOOK EXTRA**
Tallest Mountains graph



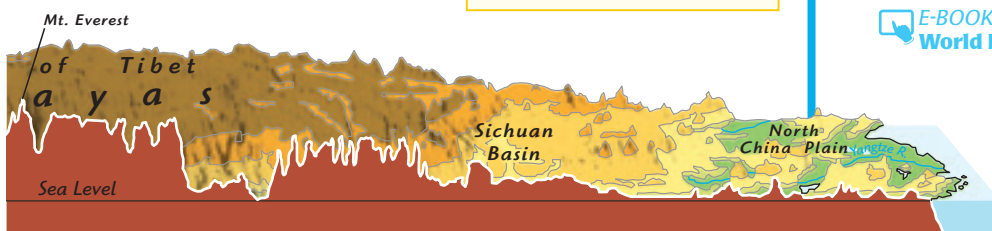


OFFICIAL OKLAHOMA ADOPTION REVIEW
DO NOT REPRODUCE



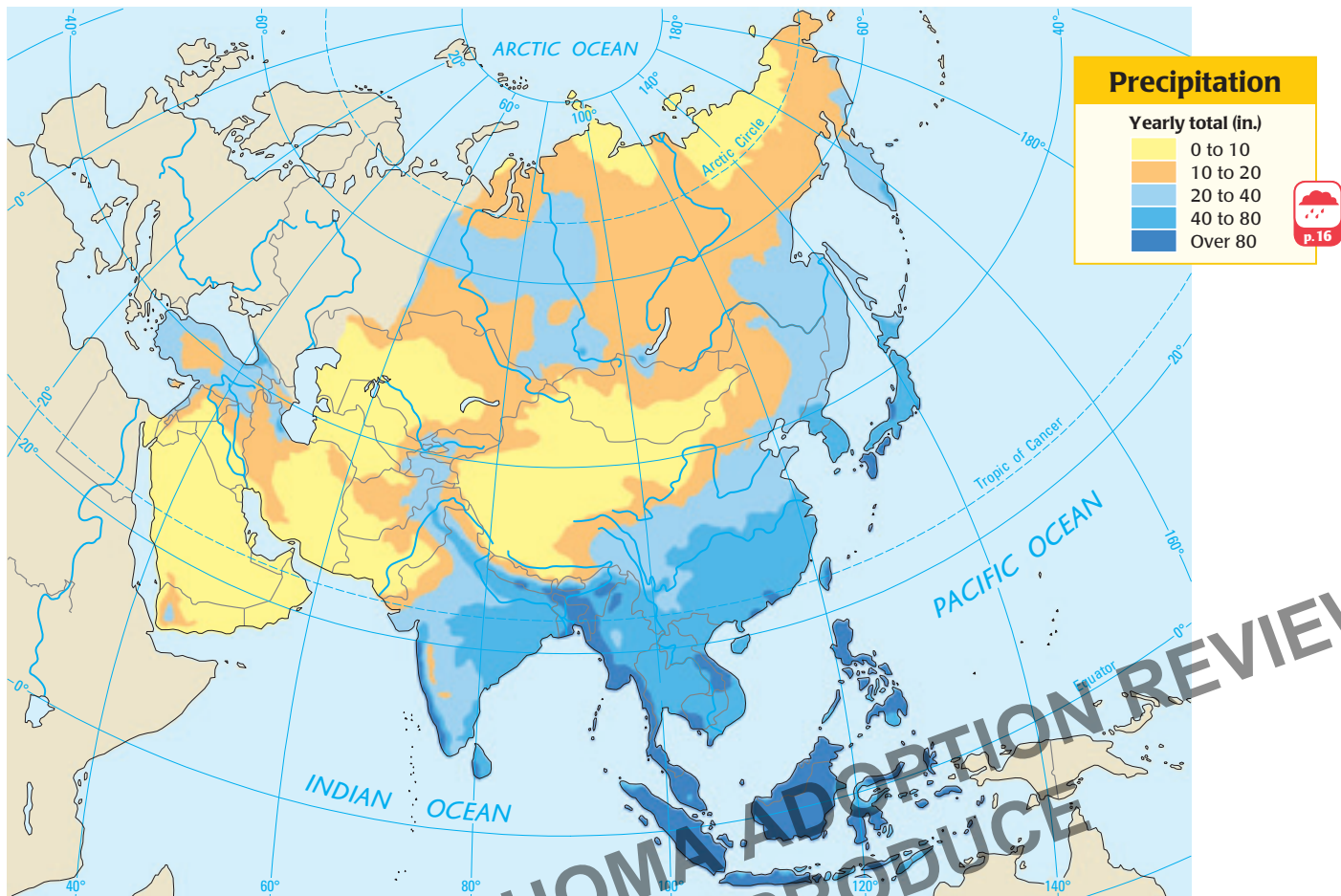
Elevation Cross Section

Above sea level (ft.)	
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	



Young Buddhist monks in Myanmar ask for food and other offerings. Most Buddhist boys in Myanmar spend at least three months as monks.

[E-BOOK EXTRA](#)
[World Religions: Buddhism map and graph](#)



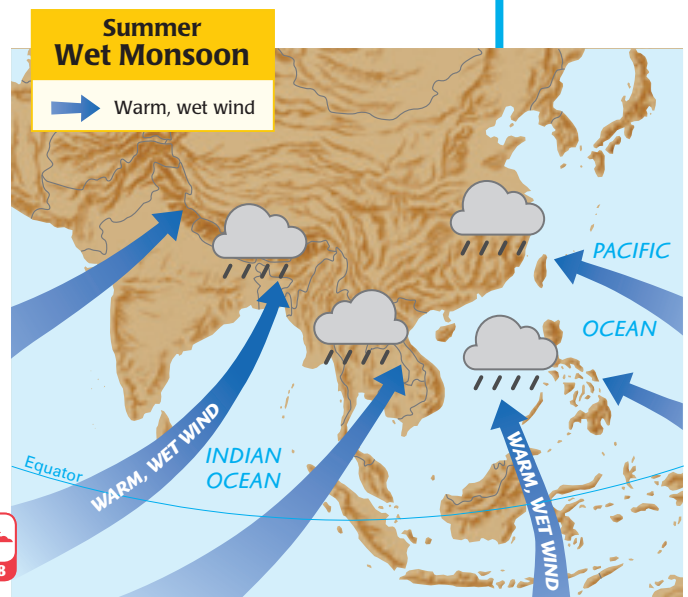
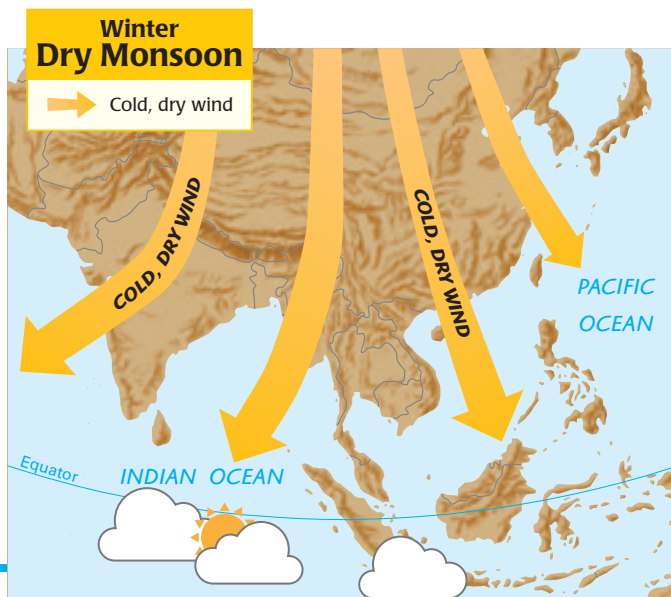
Focus on

Monsoons

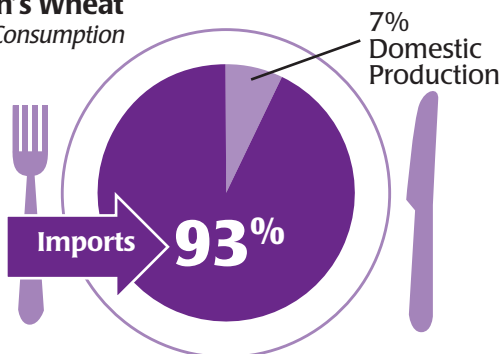
Seasonal winds called *monsoons* control southern Asia's climate.

- 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.
- The wet monsoon signals the start of the region's planting season.

[E-BOOK EXTRA](#)
Monsoon Precipitation graphs



Japan's Wheat Total Consumption

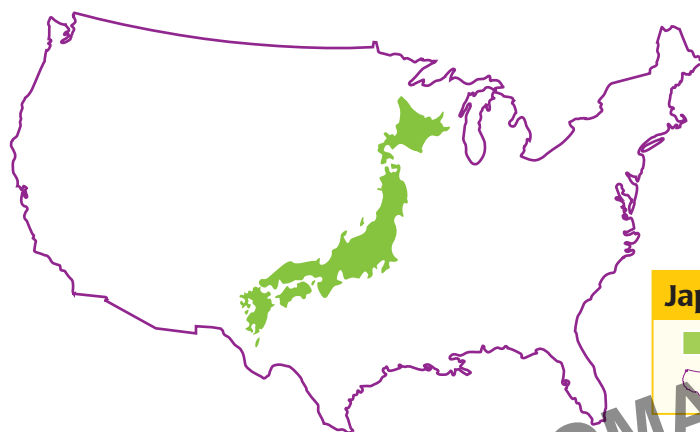


A villager in India carries her harvest of marigolds. Marigolds are used in many Hindu ceremonies.



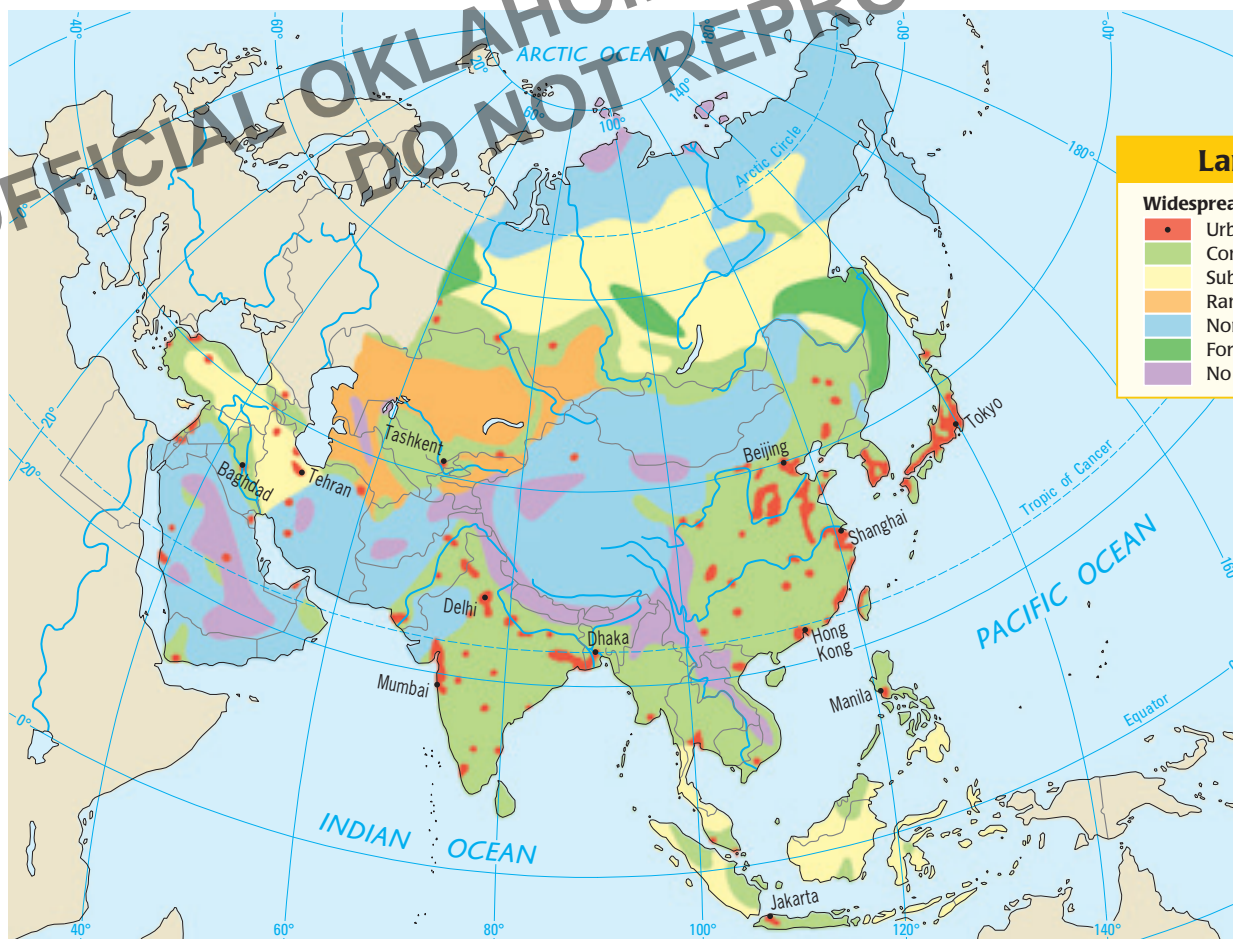
E-BOOK EXTRA

World Religions: Hinduism map and graph



Japan's Size and Shape

	Japan	145,883 mi. ²
	48 States	3,021,295 mi. ²



Land Use

Widespread economic uses

- Urban
- Commercial farming
- Subsistence farming
- Ranching or herding
- Nomadic herding
- Forestry
- No widespread use



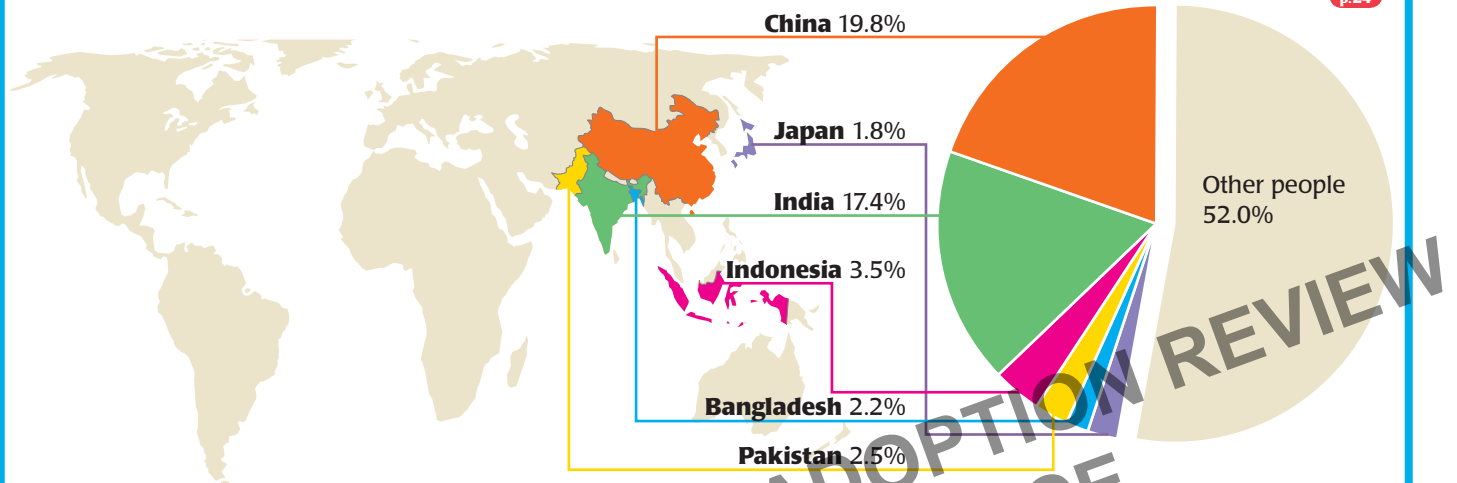
Focus on

Crowded Countries

Southern and eastern Asia are among the world's most crowded regions.

- Six Asian countries occupy less than 11 percent of the world's land.
- However, these same countries have nearly half the world's population.
- Although seven of the ten largest urban areas in the world are in these countries, many of their people still live in rural areas.
- China and India each have more people than all of Africa, the second most populous continent.

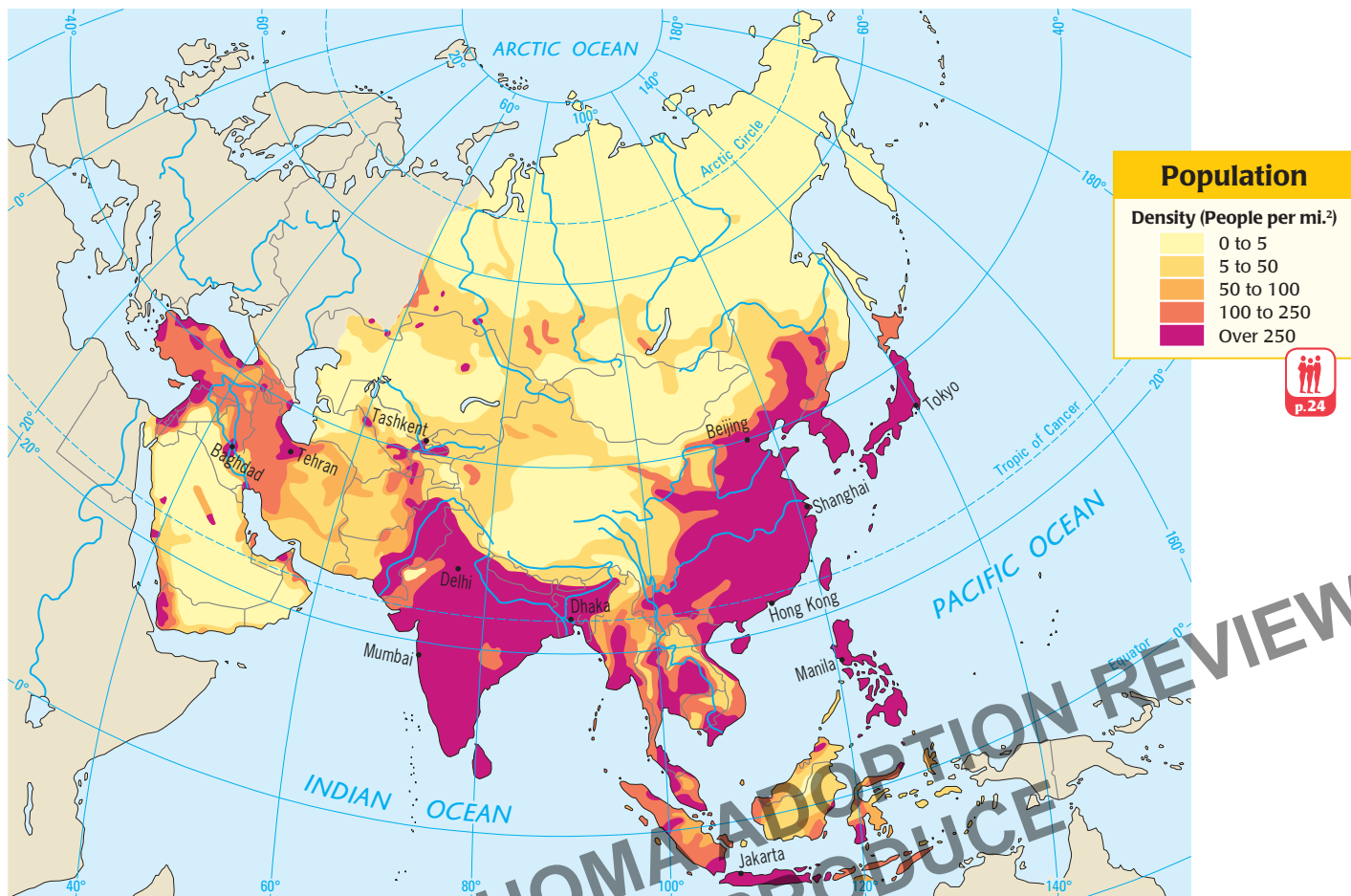
World Population



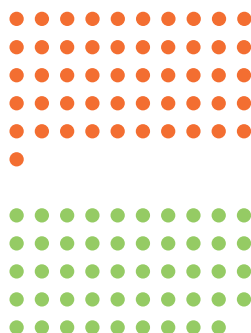
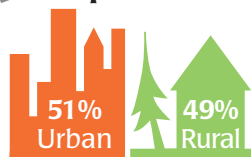
Shoppers crowd the Harajuku district in Tokyo, checking out its trendy stores and restaurants. Over 38 million people live in Tokyo, the largest urban area in the world.



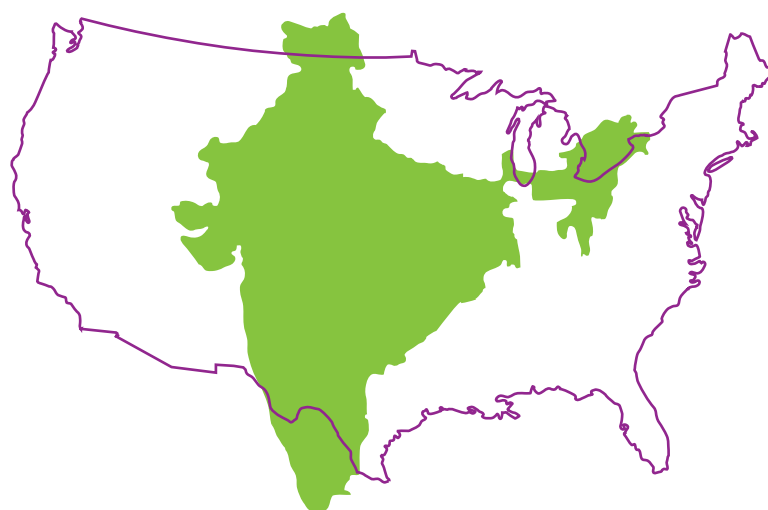
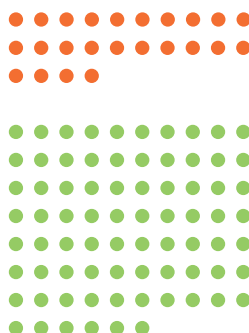
Almost 70 percent of India's population lives away from urban areas. In western India, camels are bought and sold at rural fairs.



Indonesia's Urban & Rural Population



Afghanistan's Urban & Rural Population



India's Size and Shape

	India	1,222,243 mi.²
	48 States	3,021,295 mi.²

Focus on a Giant of Trade

China is the largest exporter of manufactured goods in the world.

- China exports computers, clothing, cell phones, electrical machinery, and more.
- Most of its trade growth has taken place since the 1970s, when China's government began to allow greater economic freedom.
- Although China is a top producer of rice, wheat, and corn, the size of its population has forced China to import food.

 **E-BOOK EXTRA**
World Trade Routes map



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



Political Relief Map China and Taiwan

Boundary Symbols

- International boundary
- Other boundary (disputed or undefined)

City Symbols

- Shanghai •
- Handan •
- Macau •
- Beijing ⊕ National capital

Scale

0 200 400 600 800 miles
1 inch stands for 548 miles

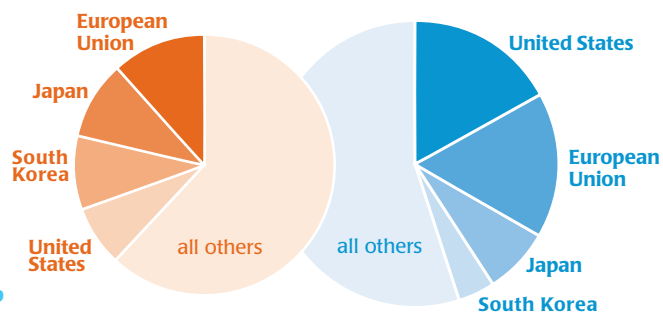
Detailed legend on page 3

Imports total
\$1.82 trillion

China's Trade



Exports total
\$2.05 trillion



 **E-BOOK EXTRA**
World Trade
Organization map

China's Urban & Rural Population



Japan's Urban & Rural Population



People per Car



106
India



77
Vietnam



2
Japan



2
United States



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.





Political Relief Map Middle East

Boundary Symbols

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

City Symbols

- Jiddah •
 - Kirkuk •
 - Taizz •
- A city's relative size is shown by the size of its symbol and lettering.

- Tehran ⊕ National capital

Scale

0 100 200 300 400 500 miles

1 inch stands for 322 miles

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

OPEC is the Organization of Petroleum Exporting Countries.

- Several OPEC members are in the Persian Gulf area: Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.
- Algeria, Angola, Libya, and Nigeria in Africa and Ecuador and Venezuela in South America are also in OPEC.
- Countries in OPEC have a surplus of oil that they can export.
- OPEC sets the price its members charge for oil, strongly affecting oil prices worldwide.

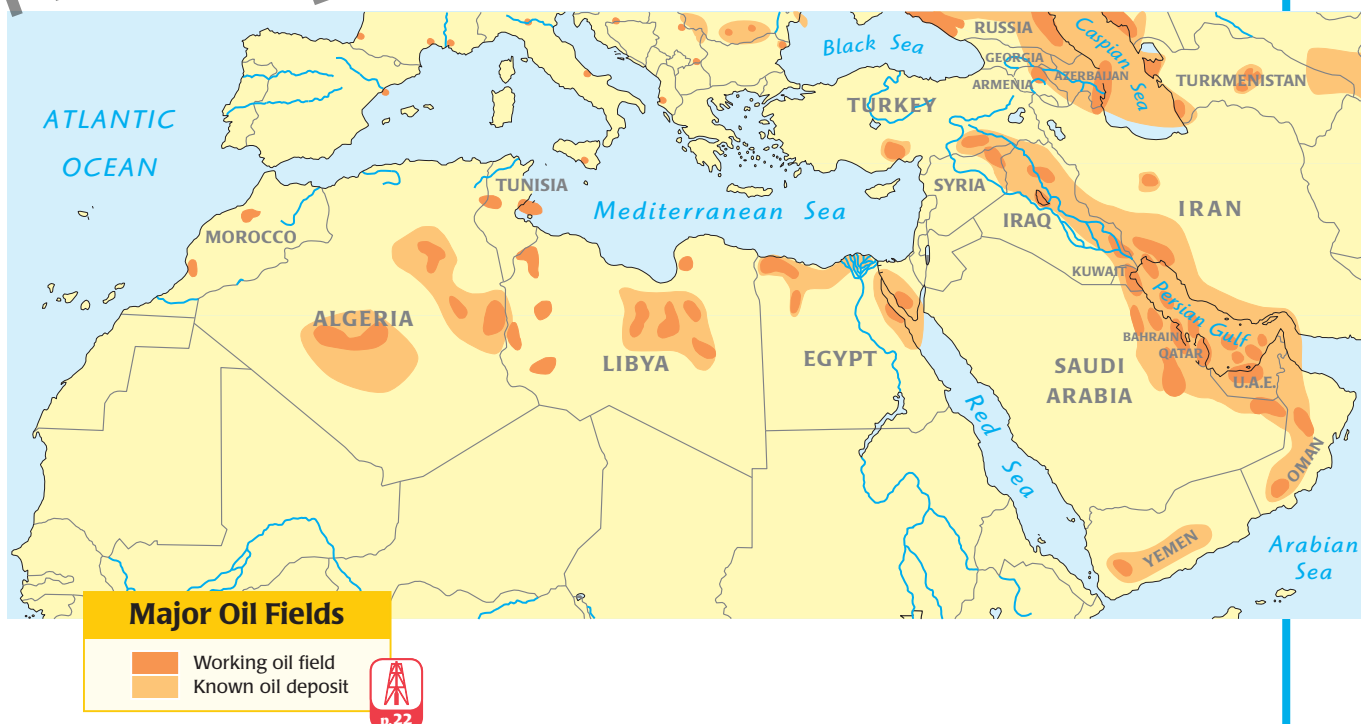
 E-BOOK EXTRA
OPEC map

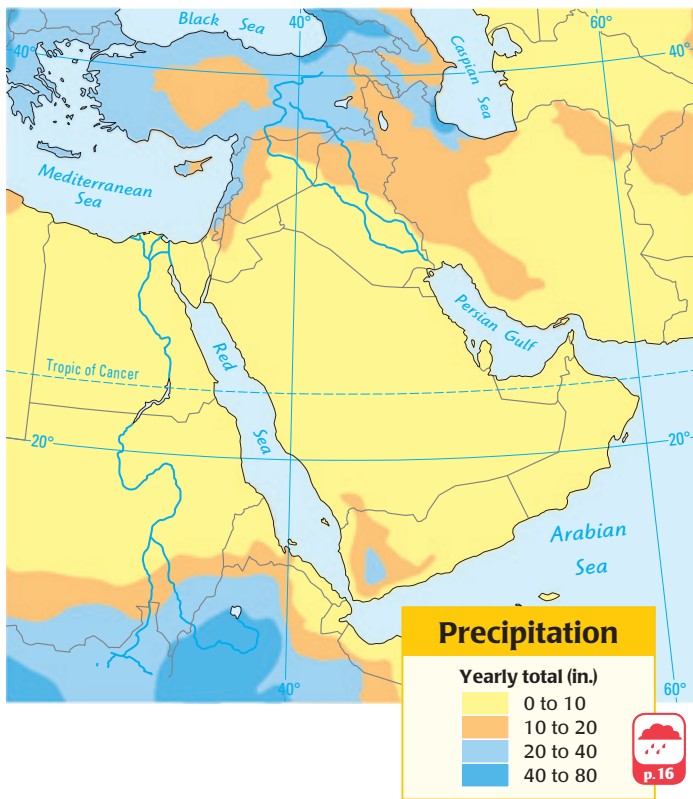


Pipelines carry oil and natural gas across the desert in Qatar to a port on the Persian Gulf.



 E-BOOK EXTRA
World Trade Routes map





People per Car

82
Iran35
Egypt4
Israel2
United States

Can you drink salt water?

The Arabian Peninsula has few year-round freshwater rivers or lakes. As the region's population increases, water levels in its aquifers are dropping. So oil-rich countries in the Middle East operate de-salting (desalination) plants that turn sea water into fresh water.

Focus on

Israel Over Time

Israel was established in 1948 as a country for the Jewish people.

- Israel has had many conflicts with its Arab neighbors since its creation.
- In 1967 Israel took land from Egypt, Jordan, and Syria during the Six-Day War.
- Israel returned the Sinai Peninsula to Egypt in stages between 1975 and 1982.
- In 1994 Palestinians began administering the Gaza Strip and most of the West Bank.
- In 2005 Israel voted to remove most Israeli settlements from the Gaza Strip and the West Bank.

Israel's Size and Shape

	Israel	7,992 mi. ²
	Florida	58,681 mi. ²

1947 UN Plan

- Jewish state (Israel)
- Arab state (Palestine)
- International zone

E-BOOK EXTRA
United Nations map



E-BOOK EXTRA
Israel's Struggle
primary source



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.



E-BOOK EXTRA
World Religions:
Islam map and graph

Predominant Religion

- Green Islam—Sunni
- Light Green Islam—Shi'ah
- Yellow Christianity
- Purple Judaism





Uluru, also known as Ayers Rock, is a natural landmark in central Australia. This huge rock formation is over 1000 feet high and almost 6 miles in circumference.



Political Relief Map Australia and Its Neighbors

Boundary Symbols

- International boundary
- State or territory boundary

City Symbols

- Brisbane ● A city's relative size is shown by the size of its symbol and lettering.
- Auckland ●
- Penrith ●
- Canberra ⊙ National capital

Scale

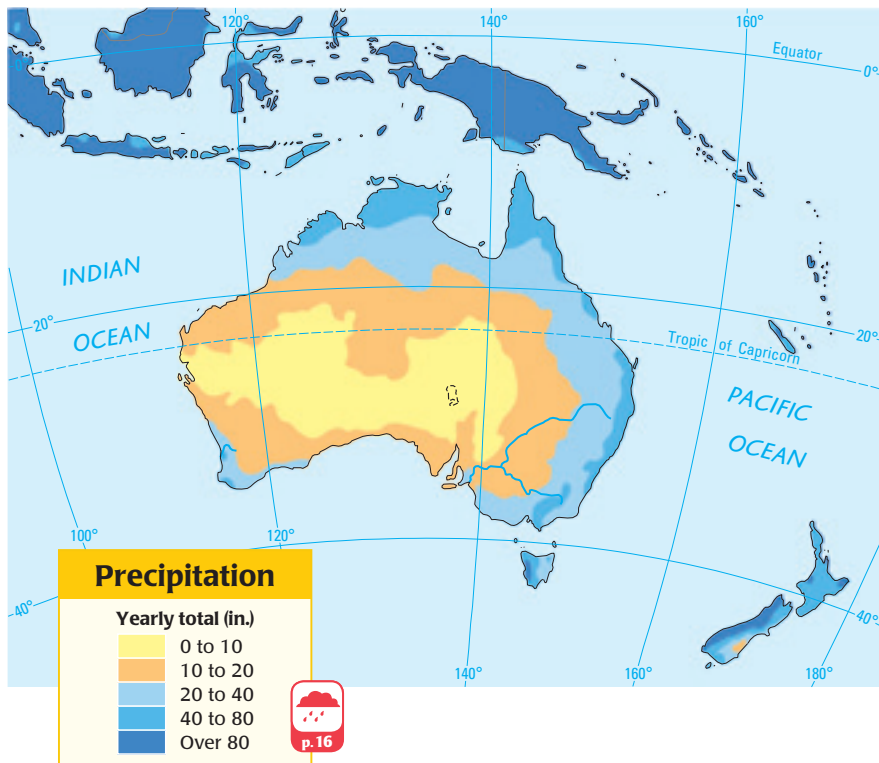
0 200 400 600 800 miles
1 inch stands for 565 miles

Detailed legend on page 3

Australia's Size and Shape

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

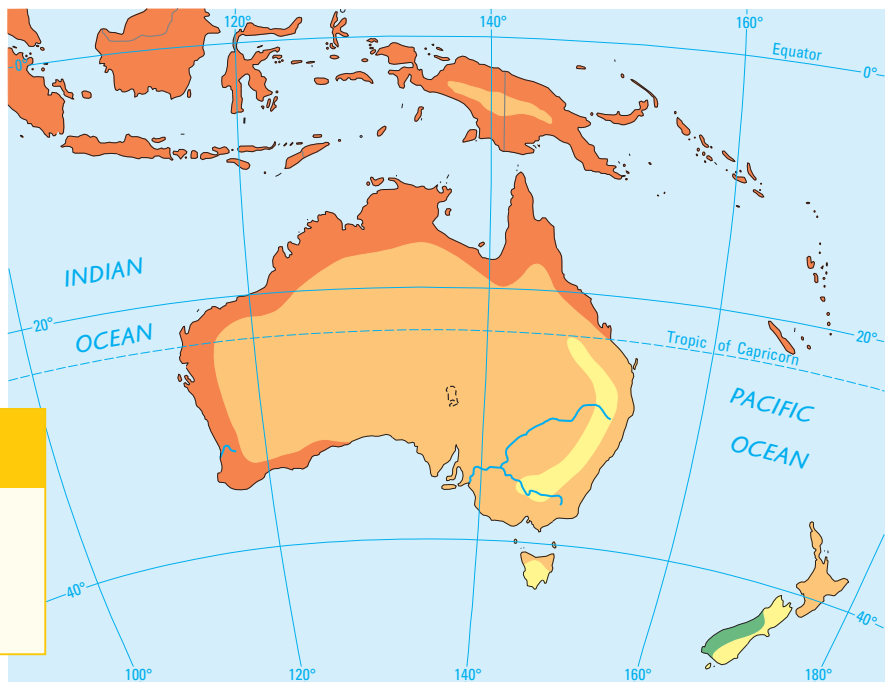
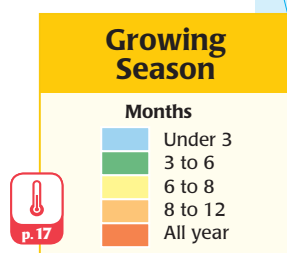
E-BOOK EXTRA
Continent Area graph



The Asmat people live in a hot, wet tidal swamp in New Guinea. They rely on canoes to get around. Here they recreate a traditional canoe war ceremony.



Parts of the South Island of New Zealand have a short growing season. However, the climate is perfect for raising sheep.



Does it ever get cold in Australia?

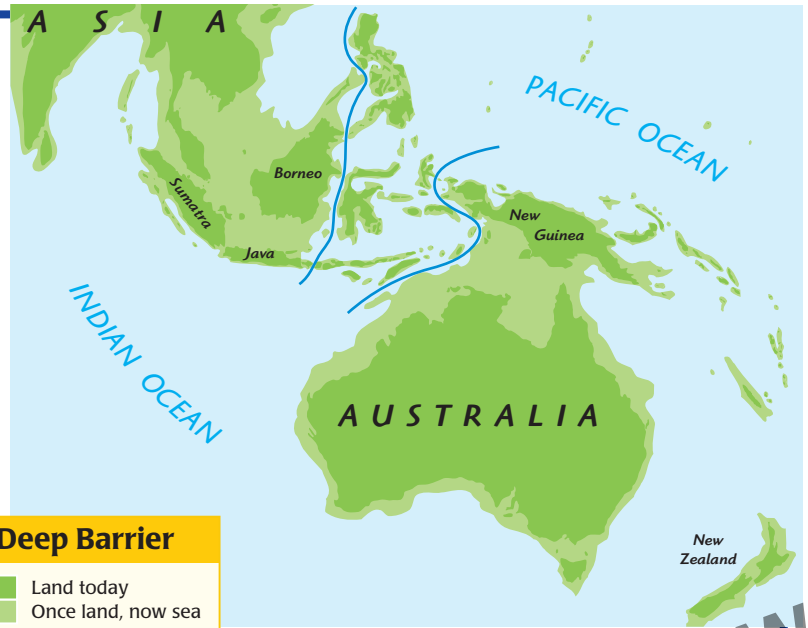
Dry desert regions cool off quickly when the sun goes down. It is said that Aboriginal people of the Australian desert talked of a "three-dog-night"—a night so cold you had to curl up with three dogs to stay warm.

Focus on

Australia's Isolation

Australia's distance from other continents has resulted in unique animal and plant life.

- During the Ice Ages, sea level dropped—exposing land between most continents.
- At that time, animals crossed from continent to continent on the exposed land.
- But Asian species rarely reached Australia. Deep seas east of Borneo remained a watery barrier.
- Australia's unique animals include the platypus and Tasmanian devil.

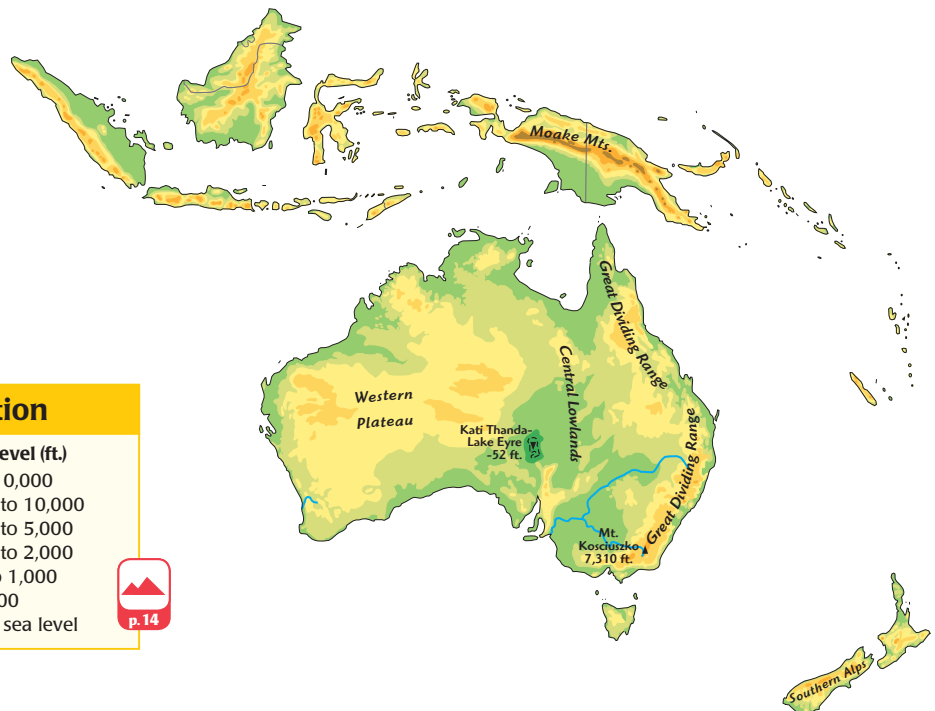
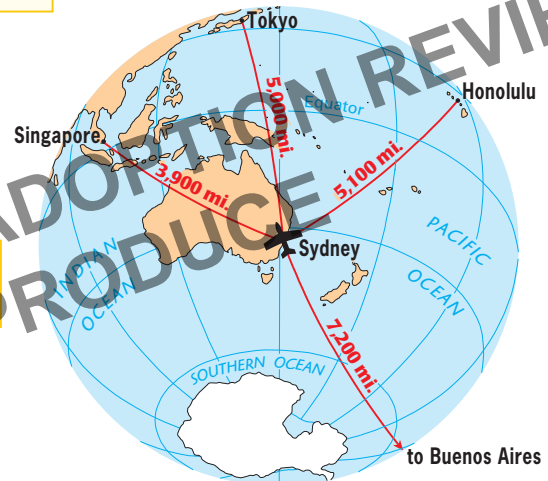


Wallabies, kangaroos, and koalas were once unique to Australia. These three mammals are all *marsupials*, animals that carry their young in pouches.

Deep Barrier

- Land today
- Once land, now sea
- Deep water barrier

Distances from Sydney



Elevation

Above sea level (ft.)

- 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





Why so few people?

Most of Australia is a dry desert region known as the Outback. Here cattle and sheep ranches can be as large as a U.S. state and have their own airstrip and plane. See one of those stations in the rural photo on page 25.

People per Car

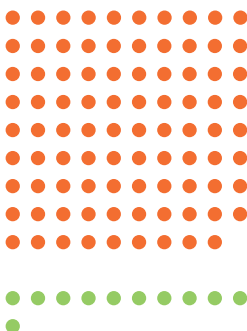
261
Solomon Islands

31
Samoa

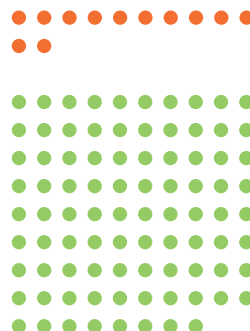
2
Australia

2
United States

Australia's Urban & Rural Population



Papua New Guinea's Urban & Rural Population



People enjoy the view of one of Sydney's landmarks, the Sydney Harbour Bridge. Australia's largest cities are located along the coast.

Focus on

People of the Pacific

People first began settling the Pacific Islands about 60,000 years ago.

- The Aboriginal people, the oldest continuous culture on Earth, arrived in Australia at least 50,000 years ago.
- People sailed from island to island across the ocean in simple boats.
- These settlers probably came from Asia. However, Easter Island may also have been settled by people from South America.



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

E-BOOK EXTRA
Pacific Explorer primary source

Australia's Wheat

Total Production



27%
Domestic
Consumption

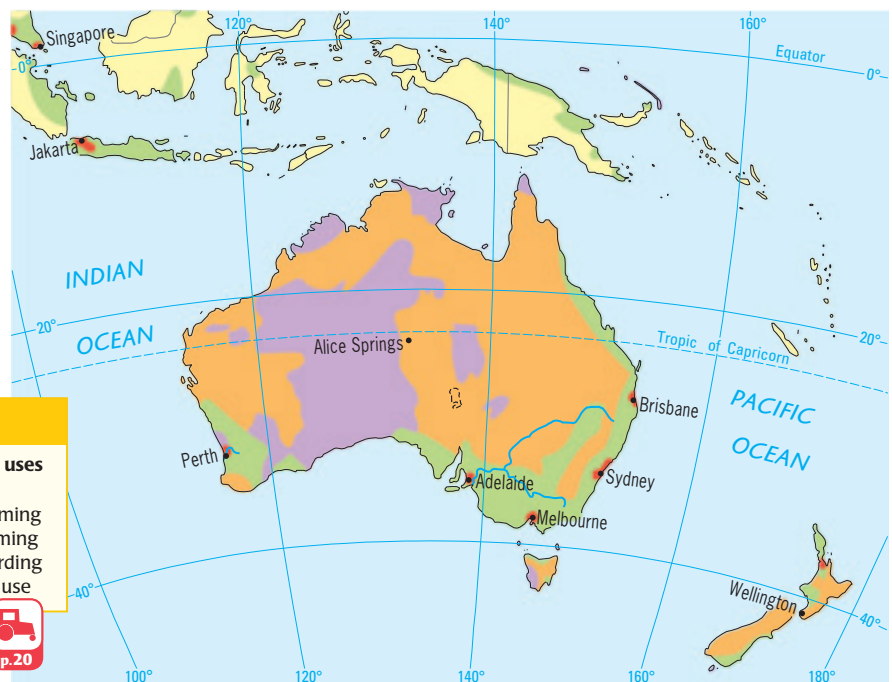
73%

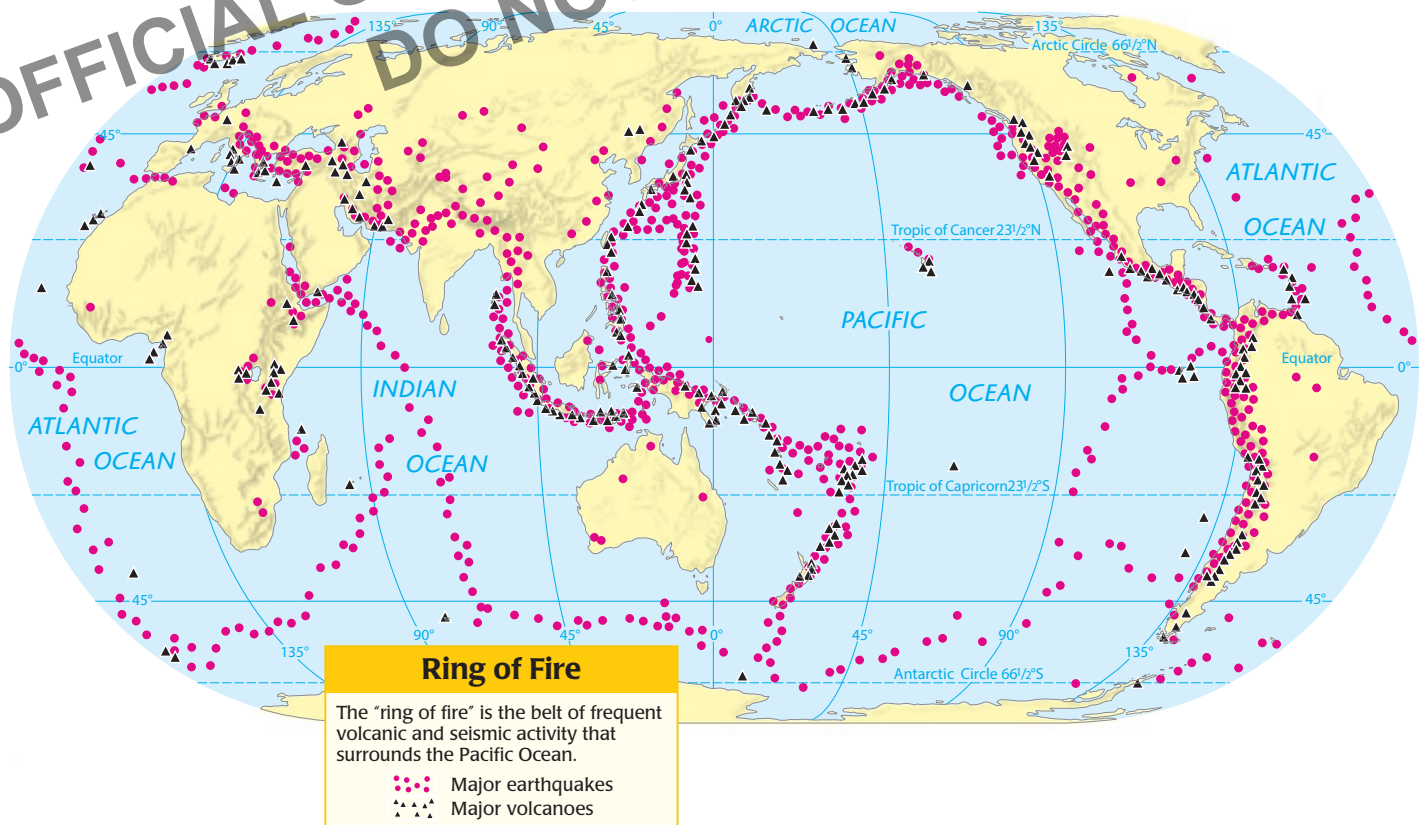
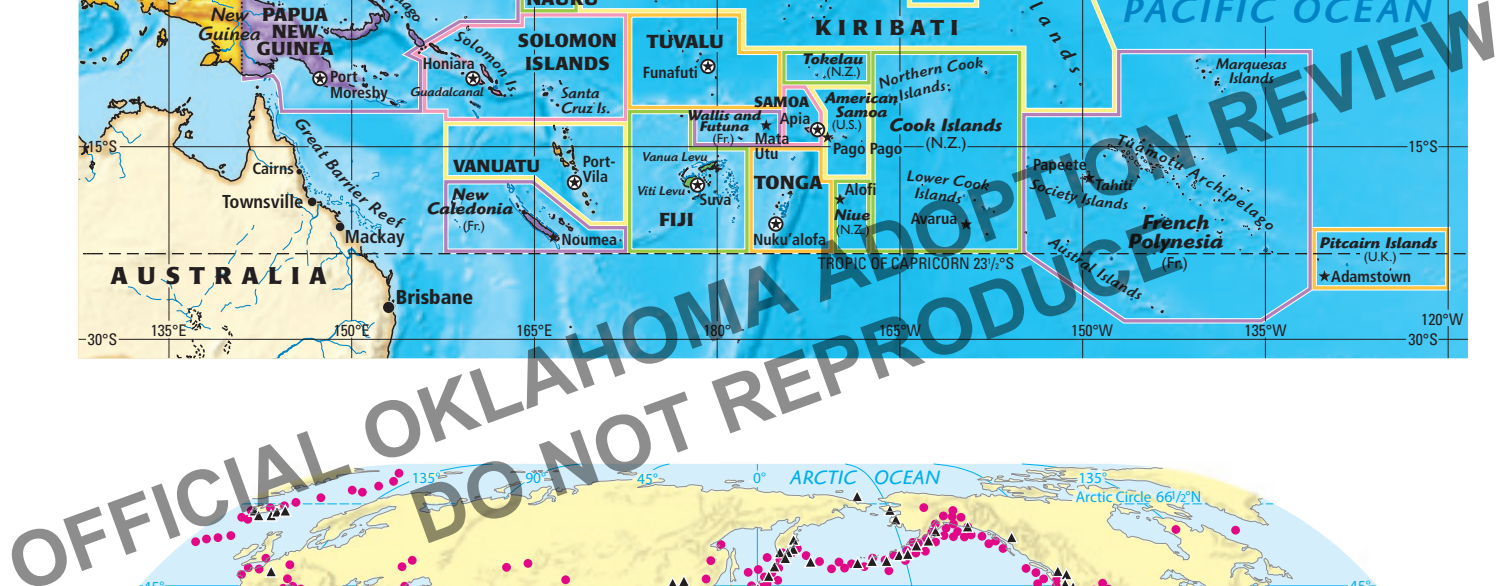
Exports

Land Use

Widespread economic uses

- Urban
- Commercial farming
- Subsistence farming
- Ranching or herding
- No widespread use





Focus on Coral Reefs

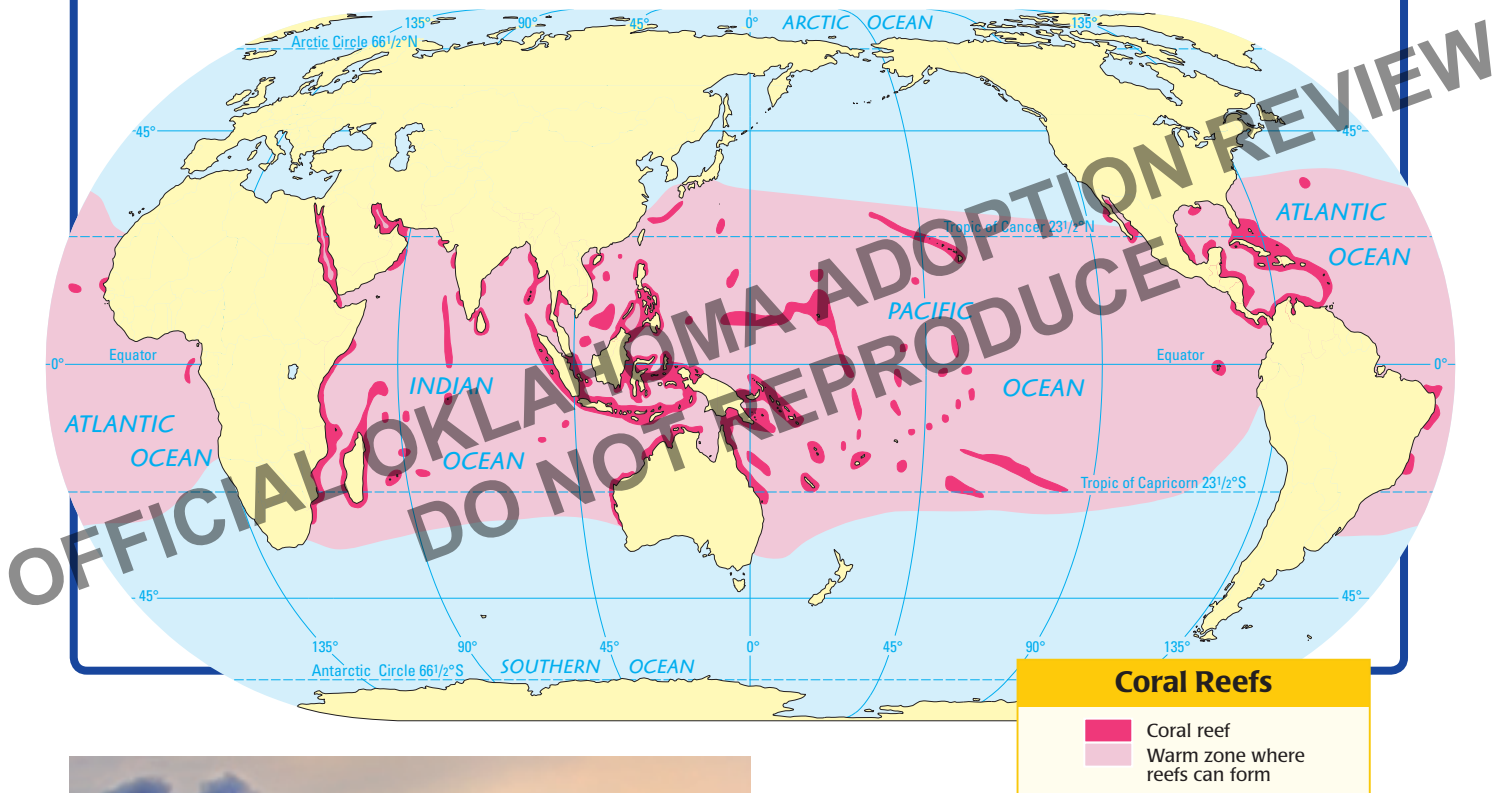
Coral is the rock-like substance formed by the outer skeletons of tiny sea animals.

- Those 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.
- Climate change has caused some coral reefs to die.

 **E-BOOK EXTRA**
Coral Atoll Formation diagram



Coral reefs come in a variety of colors. This coral reef is found near the South Pacific country of Fiji.



This island in Indonesia began as an undersea volcano. Each eruption added to the volcano's height, raising it above the ocean's surface.

What causes the Ring of Fire?

The floor of the Pacific Ocean is part of the largest *tectonic plate* on Earth. As this plate moves, it scrapes neighboring plates, causing earthquakes and volcanoes. The Ring of Fire shows the boundary of the Pacific Plate with neighboring plates.

 **E-BOOK EXTRA**
Plate Tectonics map



E-BOOK EXTRA
Polar Sea Ice satellite photo

Focus on

Permafrost

Roughly one quarter of Earth's land is covered in permafrost.

- Permafrost is land that is frozen much or all of the year.
- In summer, seasonal permafrost becomes deep mud.
- This mud threatens roads and buildings.



In Arctic regions, buildings are built on stilts. Otherwise, heat from the building would warm the permafrost and the building would sink. This building is in Nunavut, in Canada's Far North.

Permafrost

- Continuous permafrost
- Scattered permafrost



Focus on the Cold Continent



About 98 percent of Antarctica is covered in ice and snow.

- Antarctica's ice cap is up to 2.5 miles thick.
- This ice cap holds 70 percent of the world's fresh water supply.
- Away from the coast, Antarctica is too cold and dry for most living things.

 **E-BOOK EXTRA**
Antarctic Explorer
primary source

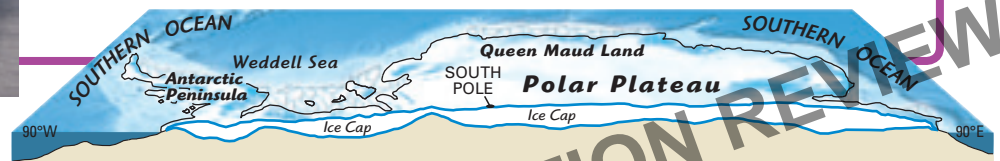
The Ross Ice Shelf rises 50 feet or more above the Ross Sea. However, 90 percent of the ice is below the surface.

Size and Shape

	Antarctica	5,400,000 mi. ²
	48 States	3,021,295 mi. ²

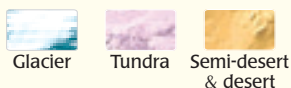
 **E-BOOK EXTRA**
Continent Area graph

Cross Section



SOUTH AMERICA

Land Cover Map Antarctica



• Research station

Boundary Symbols

— International boundary

Scale

0 250 500 750 miles

1 inch stands for 679 miles

Detailed legend on page 3



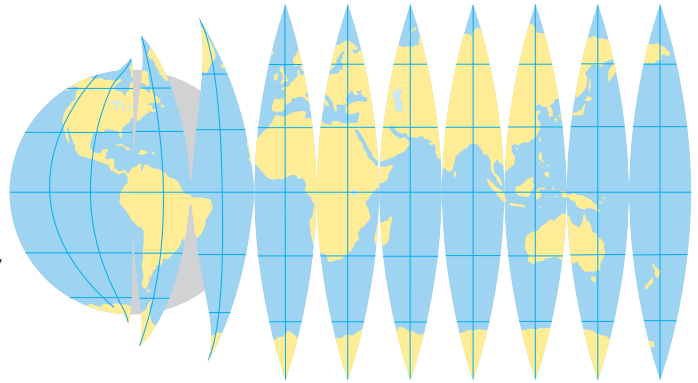
p.12



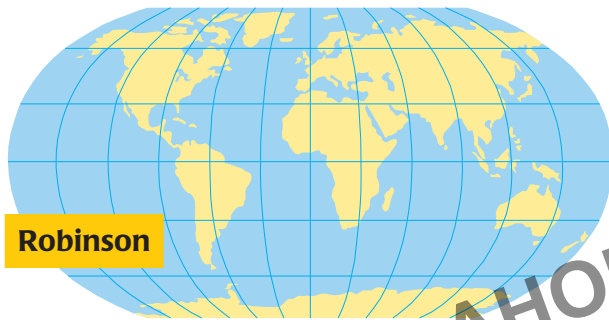
Understanding Map Projections

Because the earth is a sphere, a globe is its only perfect model.

- Map projections transfer the curved surface of the earth to the flat surface of a map.
- While the globe shows accurate shapes, sizes, distances, and directions, every world map distorts at least one of them.
- **Conformal projections** show true shapes, but distort sizes.
- **Equal-area projections** show all areas in their relative sizes, but distort shapes.
- **Compromise projections** allow some size distortions in order to portray shapes more accurately.



World map projections used in *The Nystrom World Atlas*



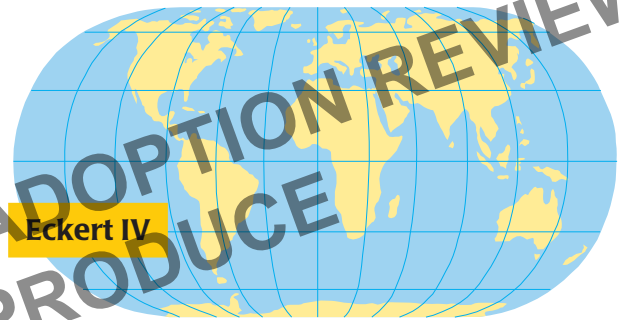
Robinson

Projection: compromise

Benefits: area distortions are minor

Drawbacks: distorts shapes, especially near polar areas

Examples: World maps, pages 6–11



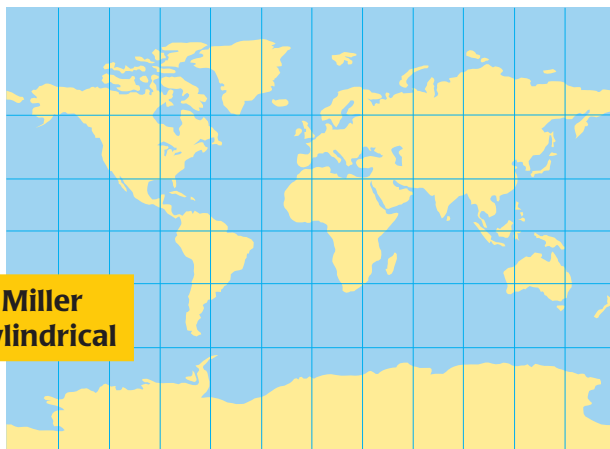
Eckert IV

Projection: equal-area

Benefits: true relative size

Drawbacks: distorts shapes near Equator and poles

Examples: World maps, pages 16–17, 20



Miller
Cylindrical

Projection: compromise

Benefits: good for zones defined by longitude

Drawbacks: shapes are not accurate

Examples: Time Zone map, page 109

 **E-BOOK EXTRA**
Mercator Projection map

Why are maps distorted?

Look at the peeling globe above. When cartographers stretch the spaces near the poles, sizes and shapes can get distorted. Distortion is generally the least near the center of world maps and greatest at the poles.

 **E-BOOK EXTRA**
Great Circle Routes map

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.

Aquifer Underground bed of rock that holds water.

Basin **1.** Area drained by a river and its branches. **2.** Area surrounded by higher land. (14)

Bay Body of water partly surrounded by land and partly open to a larger body of water such as 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. (13G)

Canal Narrow waterway built for transportation or irrigation. (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)

Coal Rock formed underground when buried plants decompose. Coal can be burned to provide heat. (22, 47)

Commercial farming Growing crops or raising livestock, largely for sale to others. (20A, 47, 58, 73)

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

Consumption Amount of a commodity that is used in a given amount of time. (21)

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, 47, 67)

Cross section Drawing or special map that shows a section of the earth as seen from the side. (54, 84–85, 105)

Deciduous Losing leaves or needles in autumn. (13)

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. (12E, 18B, 59, 65)

Elevation Height above or below sea level of a place on land. (14–15, 28–29, 59, 84–85)

Elevation map Map that uses color to show land elevations and, sometimes, water depths. (10–11, 29, 42–43, 58, 64, 74, 84, 99)

Environment Living and non-living things in an area on Earth. (59, 74)

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. (21, 36, 46, 73, 90, 101)

Forestry Use of forests for lumber, paper, and other products. (30, 36)

Glacier Large body of ice formed from a long-lasting accumulation of snow on mountains and in polar regions. See **ice cap**. (12D, 84)

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

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

Ice cap Immense glacier covering much or all of a continent or very large island. (105)

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

Immigration Movement of people to a new country to live. (31)

Import Something that is bought from a seller in another country. (21, 79, 87)

Independence State of being free from rule by another country. (66)

Irrigation Artificially supplying land with water so crops can grow there. (46)

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

Key **1.** Illustrated explanation of a map's symbols or colors. **2.** A low island or reef.

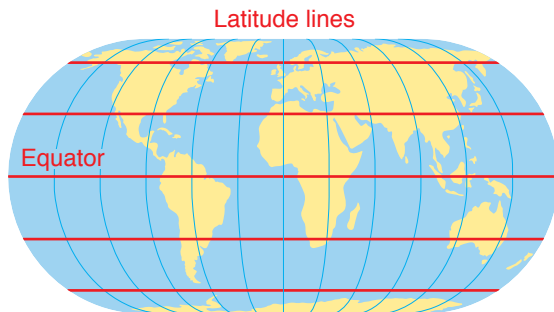
Land cover Vegetation, deserts, and glaciers now covering the earth's land surface. (12–13)

Land cover map Map that uses color to show land cover, sea ice, and ocean floors. (6–7, 26, 32–33, 38–39, 50–51, 56, 62, 68–69, 80–81, 96, 104–105)

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)

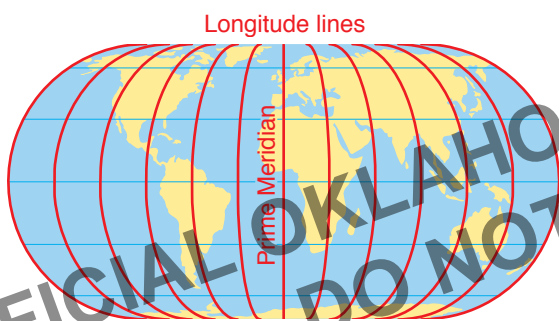
Latitude Distance north or south of the Equator, as measured in degrees of a circle.



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

Lock A device that raises and lowers boats between waterways at two different levels. (28–29, 54)

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)

Millet A small, round grain that is often cooked as a porridge. (21)

Monsoon Pattern of seasonal winds. In Asia, the summer monsoon is wet, and the winter monsoon is dry. (86)

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, 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.

Oil Liquid formed underground when buried plants and animals decompose. Oil can be burned to provide heat and fuel. (22, 47, 93)

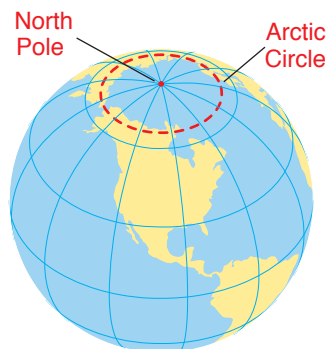
Peninsula Area of land that is almost surrounded by water.

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

Plain Broad area of land that is gently rolling or almost flat. (14)

Plateau Elevated plain, usually with at least one steeply dropping or rising side; also called *tableland*. Some plateaus are heavily eroded. (15)

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 relief map Map that uses color to show countries, states, provinces, or other political divisions. It also uses shading to show select landforms. (8–9, 27, 34–35, 40–41, 52–53, 57, 63, 70–71, 77, 78–79, 82–83, 90, 91, 92, 97)

Population People, especially those living in a particular place. (24–25)

Population density The population per square mile.

Port Place where cargo or passengers are moved onto or off of ships. (90)

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

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. (21)

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

Ranching and herding Raising herds of livestock on large, open ranches. The livestock graze or feed on the natural grasses that grow there. (20C, 60)

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

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. (25)

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

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, 28–29, 54)

Semi-desert Region covered by scattered vegetation but too dry for crops without irrigation. Also called semi-arid. (13E)

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.

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)

Suburb A town or small city located in an urban area near a large city. (25)

Summit The highest place on a mountain. (15, 44, 84)

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

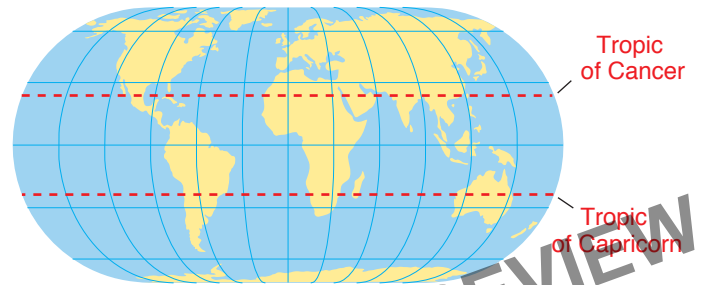
Tableland Elevated plain, usually with at least one steeply dropping or rising side; also called *plateau*. Some tablelands are heavily eroded. (15)

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. (109)

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

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



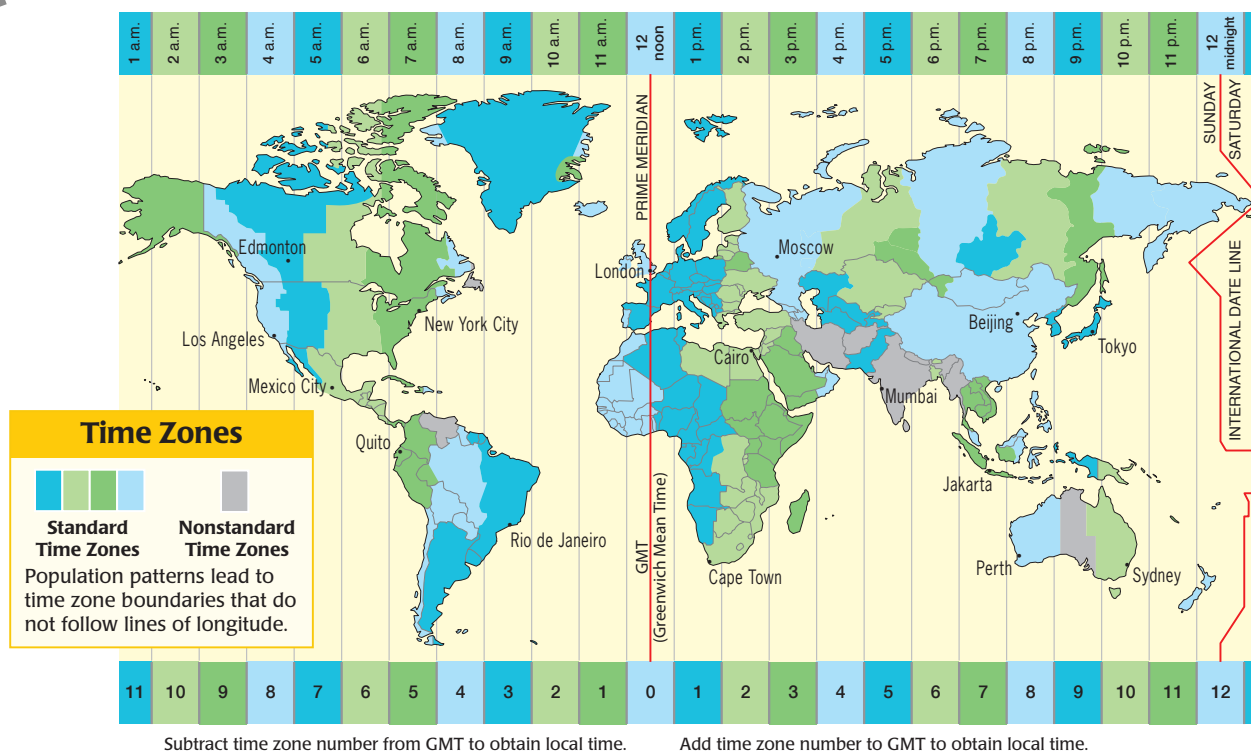
Tundra 1. Polar or mountainous area with no glaciers but too cold for trees to grow. 2. Small plants that grow close to the ground in places that are cool or cold most of the year. (12C)

Uranium A radioactive metal that is used to produce nuclear energy. (22, 47)

Urban Consisting of cities or towns; the opposite of rural. Urban areas may be centers of manufacturing, trade, finance, or government. (25, 28, 37, 67, 77, 78, 89, 100)

Weather Temperature, precipitation, 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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Zimbabwe , country in Africa, 20°S, 30°E	63

Abbreviations

&	and
adm.	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 and 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 or Sainte
Str.	Strait
Switz.	Switzerland
U.A.E.	United Arab Emirates
U.K.	United Kingdom
U.S.	United States
W.	West

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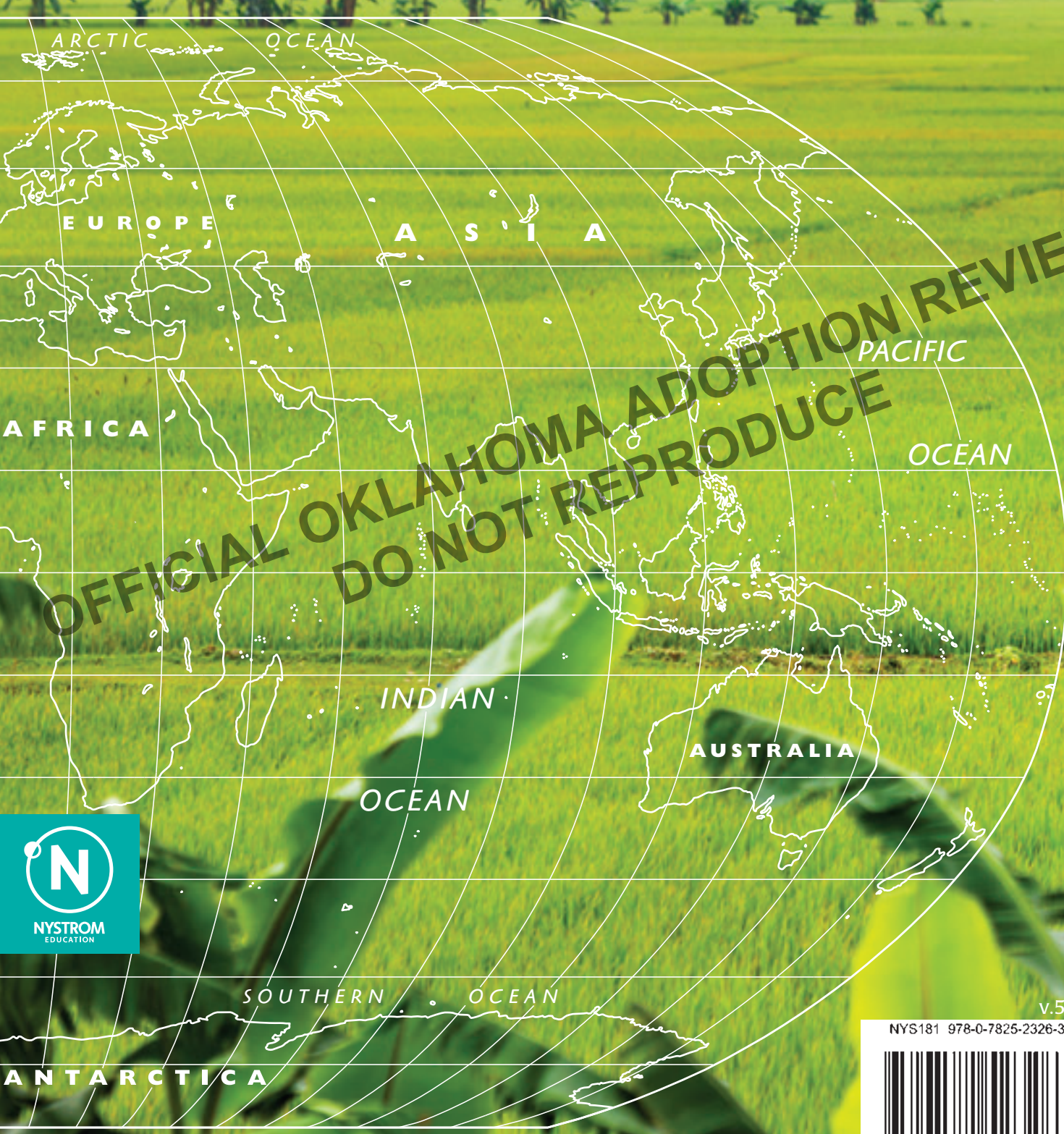
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