

Session: Spring 2011
Section: 51569 3 Units
Class Location: NVC 838

Days / Time: W 6:00 PM - 8:50 PM

Instructor: RIDDELL

# Raven, Berg, Hassenzahl: Environment, 7th Edition Chapter 18 Land

- 1. What two new U.S. national parks were founded in 2003 and 2004?
  - a) Congaree and Sand Dunes
  - b) Mojave and Yellowstone
  - c) Yosemite and Sand Dunes
  - d) The Grand Canyon and Congaree
  - e) none of these

Ans: a

Difficulty: Easy Response:

Chapter Opener; 18.0

- 2. Which organization(s) helped preserve Congaree National Park over the years?
  - a) The Nature Conservancy
  - b) The Sierra Club
  - c) The Audubon Society
  - d) all of these
  - e) none of these

Ans: d

Difficulty: Easy Response:

Chapter Opener; 18.0

- 3. Which of the following national parks preserves the largest remaining intact Difficultwood bottomland forest in the U.S.?
  - a) Great Sand Dunes
  - b) Joshua Tree
  - c) Yosemite
  - d) Congaree
  - e) Yellowstone

Ans: d

Difficulty: Easy Response:

Chapter Opener; 18.0



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- 4. What is the current percentage of land used by humans for agriculture?
  - a) 28%
  - b) 42%
  - c) 55%
  - d) 31%
  - e) 38%

Ans: e

Difficulty: Medium

Response:

World Land Use; 18.1.1

- 5. Cities make up what percentage of the world's total land area?
  - a) 5%
  - b) 17%
  - c) 3%
  - d) 12%
  - e) 7%

Ans: c

Difficulty: Medium

Response:

World Land Use; 18.1.1

- 6. Which U.S. government agency manages the federally owned land?
  - a) Bureau of Land Management
  - b) U.S. Fish and Wildlife
  - c) National Park Service
  - d) U.S. Forest Service
  - e) all of these

Ans: e

Difficulty: Easy Response:

Land Use in the United States; 18.1.2

- 7. Which of the following statements is not true about public planning of land use?
  - a) Land use decisions are complex because they have multiple effects.
  - b) Public planning of land should take all repercussions into account.
  - c) Public planning is concerned primarily with immediate effects.
  - d) Initial land development spawns additional land development.
  - e) all of these are true

Ans: c

Difficulty: Medium

Response:

Land Use in the United States; 18.1.2



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- 8. All of the following are benefits of coastal wetlands except:
  - a) reduced flooding through their ability to hold excess water
  - b) improved water quality
  - c) reduced impact of ozone depletion
  - d) provide habitat for endangered species
  - e) produce important commercial products

Ans: c

Difficulty: Easy Response:

Wetlands and Coastal Areas; 18.5

- 9. Which of the following is not one of the top 5 countries with the greatest tree harvests?
  - a) United States
  - b) Canada
  - c) China
  - d) Germany
  - e) Brazil

Ans: d

Difficulty: Medium

Response:

Forest Management; 18.3.1

- 10. Which of the following statements about clear cutting is false?
  - a) It is the most cost-effective way to harvest trees.
  - b) When done on a small scale, it can benefit some wildlife species.
  - c) It increases soil erosion and causes mudslides.
  - d) Clear-cutting forests at higher altitudes is more Difficult to regenerate than low altitudes.
  - e) none of these are false

Ans: e

Difficulty: Medium

Response:

Forest Management; 18.3.1



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- 11. Which of the following is a direct cause of deforestation?
  - a) insects
  - b) indigenous people
  - c) decrease of agriculture
  - d) diseases
  - e) both insects and diseases

Ans: e

Difficulty: Easy Response:

Deforestation; 18.3.2

- 12. Which organization is a provision of the 1990 Farm Bill which helps landowners protect environmentally important forestlands from development?
  - a) Forest Legacy Program
  - b) Bureau of Land Management
  - c) Environmental Protection Agency
  - d) Department of Environmental Management
  - e) Sierra Club

Ans: a

Difficulty: Easy Response:

Forest Trends in the United States; 18.3.3

- 13. Which of the following statements about forest ownership in the United States is true?
  - a) The federal government owns the majority of the forests.
  - b) State and local governments own about 25% of the forests.
  - c) Private individuals own the majority of the forests.
  - d) Corporations own about half of the forests.
  - e) none of these are true

Ans: c

Difficulty: Medium

Response:

Forest Trends in the United States; 18.3.3



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Instructor: RIDDELL

- 14. Which of the following is not a method currently used to harvest trees?
  - a) clear-cutting
  - b) selective cutting
  - c) seed tree cutting
  - d) shelterwood cutting
  - e) none of these

Ans: e

Difficulty: Easy Response:

Forest Management; 18.3.1

- 15. The natural or human-induced process that decreases the future ability of the land to support crops or livestock is known as:
  - a) desertification
  - b) land degradation
  - c) overgrazing
  - d) clear cutting
  - e) undergrazing

Ans: b

Difficulty: Easy Response:

Rangeland Degradation and Desertification; 18.4.1

- 16. Approximately 55 percent of the land in the United States is owned by:
  - a) the federal government, as national parks
  - b) Native Americans
  - c) citizens, corporations, and non-profit organizations
  - d) state and local governments
  - e) the federal government, as national forests and rangelands

Ans: c

Difficulty: Easy Response:

Land Use in the United States; 18.1.2



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- 17. Most of the federally owned land in the United States is located in:
  - a) Alaska and 11 western states
  - b) Alaska and the Rocky Mountain area
  - c) 11 western states and the Upper Midwest
  - d) Alaska and Texas
  - e) Alaska, Arizona, California, and Nevada

Ans: a
Difficulty: Easy
Response:

Land Use in the United States; 18.1.2

- 18. The Wilderness Act of 1964:
  - a) established five new national parks
  - b) limits the percentage of an area that can be developed for human habitation and other activities
  - c) gives designated wilderness areas the highest protection of any public lands
  - d) established wilderness areas, but only within existing national parks
  - e) safeguards mountain areas but not tundra or desert

Ans: c

Difficulty: Easy Response:

Wilderness, Parks, and Wildlife Refuges; 18.2

- 19. National parks may include:
  - a) significant modern architecture
  - b) economically significant areas or buildings
  - c) historic battlefields
  - d) farm land
  - e) none of these

Ans: e

Difficulty: Easy Response:

National Parks; 18.2.1



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- 20. Which of the following is not a threat to national parks?
  - a) ecosystem services
  - b) vandalism
  - c) collecting plants, minerals, and fossils
  - d) declining wildlife populations
  - e) proliferating wildlife populations

Ans: a
Difficulty: Easy
Response:

National Parks; 18.2.1

- 21. The National Wildlife Refuge System was established by which President of the United States?
  - a) Abraham Lincoln
  - b) Woodrow Wilson
  - c) Harry Truman
  - d) Herbert Hoover
  - e) Theodore Roosevelt

Ans: e

Difficulty: Easy Response:

Wildlife Refuges; 18.2.2

- 22. Forests:
  - a) fix large amounts of oxygen, removing it from the atmosphere
  - b) promote soil erosion
  - c) maintain watersheds
  - d) provide habitat for few animal species
  - e) release large amounts of carbon monoxide into the atmosphere

Ans: c

Difficulty: Easy **Response:** Forests; 18.3



PRACTICE MIDTERM EXAM 2

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Instructor: RIDDELL

- 23. Timber companies prefer to harvest trees by:
  - a) clear-cutting
  - b) seed tree cutting
  - c) selective cutting
  - d) shelterwood cutting
  - e) even-age harvesting

Ans: a

Difficulty: Easy Response:

Forest Management; 18.3.1

- 24. The removal of all mature trees in an area over an extended period of time is known as:
  - a) clear-cutting
  - b) even-age harvesting
  - c) selective cutting
  - d) seed-tree cutting
  - e) shelterwood cutting

Ans: e

Difficulty: Easy Response:

Forest Management; 18.3.1

- 25. Tropical dry forests are being destroyed largely due to demand for:
  - a) food
  - b) pharmaceutical products
  - c) mining ores
  - d) industrial wood and wood fiber
  - e) fuel

Ans: e

Difficulty: Easy Response:

Trends in Tropical Forests; 18.3.5

- 26. Boreal forests:
  - a) comprise the world's largest biome
  - b) are currently the primary source of the world's industrial wood and wood fiber
  - c) are harvested primarily by clear-cut logging
  - d) are comprised of evergreen trees, such as spruce, fir, cedar, and hemlock
  - e) all of these

Ans: e

Difficulty: Easy Response:

Boreal Forests and Deforestation; 18.3.6



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- 27. Public rangelands in the United States:
  - a) have been on the decline since the early 1900s
  - b) are maintained exclusively by fees collected from private livestock operators
  - c) do not currently support large populations of free-ranging grazers
  - d) make up approximately 50% of the total land area in the United States
  - e) can be used for grazing private livestock for a fee if you have a permit

Ans: e

Difficulty: Easy Response:

Rangeland Trends in the United States; 18.4.2

- 28. Which of the following is not a commercial product of freshwater wetlands?
  - a) blueberries
  - b) cranberries
  - c) grapes
  - d) peat moss
  - e) wild rice

Ans: c

Difficulty: Easy Response:

Wetlands and Coastal Areas; 18.5

- 29. Which of the following includes a provision to protect and restore freshwater wetlands?
  - a) Wilderness Act
  - b) Wild and Scenic Rivers Act
  - c) Federal Land Policy and Management Act
  - d) Land and Water Conservation Fund Act
  - e) Food Security Act

Ans: e

Difficulty: Easy Response:

Wetlands and Coastal Areas; 18.5

- 30. Conservation strategies that set aside ecosystems for preservation:
  - a) are the best way to preserve an area's diversity
  - b) increase the likelihood that a given ecosystem will be exploited
  - c) decrease the number of endangered species living in that ecosystem
  - d) can only be carried out by government agencies
  - e) are impractical and not encouraged

Ans: a

Difficulty: Easy Response:

Conservation of Land Resources; 18.6



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- 31. A legal agreement that protects privately owned forests or other property from development for a specified number of years is termed:
  - a) a public range land
  - b) a sanctuary deed
  - c) a conservation easement
  - d) an ecosystem lien
  - e) a habitat right of way

Ans: c

Difficulty: Easy Response:

Forest Trends in the United States: 18.3.3

- 32. According to the Defenders of Wildlife, the top three most endangered ecosystems in the U.S. include:
  - a) Northwestern grassland, Heartland savanna, and California native grassland
  - b) South Florida landscape, Southern Appalachian spruce-fir forest, and longleaf pine forests and savannas
  - c) Alaskan tundra, Hawaii's rainforest, and coastal wetlands
  - d) Bogs, Arizona's deserts, and Rocky Mountain evergreen forests
  - e) Freshwater lakes, prairie lands, and volcanic landscapes

Ans: b

Difficulty: Easy Response:

Conservation of Land Resources; 18.6

- 33. An ecological simplification in which only one type of plant is cultivated over a large area is called a:
  - a) wildlife corridor
  - b) natural regulation
  - c) wise-use move
  - d) monoculture
  - e) single species standard

Ans: d
Difficulty: Easy
Response:

Forest Management; 18.3.1



PRACTICE MIDTERM EXAM 2

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Instructor: RIDDELL

- 34. Which of the following is not an ecosystem service performed by rural lands?
  - flood and erosion control
  - b) waste recycling
  - leaching of mineral nutrients c)
  - d) wildlife habitat
  - e) groundwater recharge

Ans: c

Difficulty: Medium

Response: Land Use; 18.1

- 35. The controversy involving the decline of white pine trees (source of a major part of the grizzly bears' diet) is based on:
  - the popularity of the grizzly bears compared to their destruction of the local a) forest community
  - the fact that global warming and ozone depletion are responsible for the trees' b) decline
  - c) the exotic nature of the fungus that is killing the trees
  - the provision of the Wilderness Act that intentional ecological management will d) be avoided
  - e) none of these

Ans: d

Difficulty: Medium

Response:

Wilderness, Parks, and Wildlife Refuges; 18.2

- 36. Which of the following statements regarding trees and climate change is true?
  - The oxygen produced by trees helps to moderate climate change. a)
  - b) When trees act as carbon "sinks," they accelerate climate change.
  - There is much more carbon stored in trees than there is in the atmosphere. c)
  - d) The process of photosynthesis removes greenhouse gases from the atmosphere.
  - Trees take greenhouse gases and turn them into CO2, an important compound e) for many living organisms.

Ans: d

Difficulty: Easy Response: Forests; 18.3



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- 37. Which of the following federal agencies is not charged with the managing of federally owned lands?
  - a) Department of Agriculture
  - b) Department of Interior
  - c) Bureau of Land Management
  - d) U.S. Forest Service
  - e) Department of Commerce

Ans: e

Difficulty: Medium

Response:

Land Use in the United States; 18.1.2

- 38. According to recent climate projections, how is Amazonia likely to be affected by deforestation?
  - 1) rainfall will decrease
  - 2) temperatures will increase due to a negative feedback loop between forest cover, drought, and air temperature
  - 3) drought frequency could increase forest loss
  - 4) all of these
  - a) 1
  - b) 2
  - c) 3
  - d) 4
  - e) Both 1 and 3

Ans: e

Difficulty: Medium

Response:

Conservation and Land Resources; 18.6;

- 39. The purpose of the National Wildlife Refuge System is to:
  - a) preserve lands and waters for the conservation of wildlife
  - b) preserve historically significant buildings
  - c) maintain quality drinking water for urban areas
  - d) raise money to protect wilderness areas of the United States
  - e) more than one of the above

Ans: a

Difficulty: Medium

Response:

Wildlife Refuges; 18.2.2



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- 40. What prompted the 88th Congress to implement the Wilderness Act of 1964?
  - a) the need to preserve areas of land for future timber harvest
  - b) concern that human population expansion could drastically reduce the amount of land remaining in pristine condition
  - c) lobbying by individuals such as John Muir
  - d) the need to make more land accessible to citizens for recreational purposes
  - e) a decrease in land prices, facilitating purchases of large areas by the Federal Government

Ans: b

Difficulty: Medium

Response:

Wilderness, Parks, and Wildlife Refuges; 18.2

- 41. Forests play an important role in the hydrologic cycle by:
  - a) returning most moisture to underground storage as groundwater
  - b) recycling small amounts of water to the atmosphere
  - c) recycling 75% of precipitation to the atmosphere by transpiration and evaporation
  - d) removing large amounts of carbon monoxide from the atmosphere
  - e) increasing runoff to local streams

Ans: c

Difficulty: Medium

Response: Forests; 18.3

- 42. Forest management for timber production:
  - a) includes the harvesting of trees
  - b) results in forests with high biodiversity
  - c) maintains the natural species composition of the forest
  - d) results in forests less susceptible to disease
  - e) specifically avoids producing monoculture forests

Ans: a

Difficulty: Medium

Response:

Forest Management; 18.3.1



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- 43. Habitat corridors are intended to provide:
  - a) further habitat fragmentation
  - b) increased species richness within forest monocultures
  - c) a means for controlling insect pests and invasive species
  - d) increased timber production
  - e) opportunities for larger animals to establish larger territories

Ans: e

Difficulty: Medium

Response:

Forest Management; 18.3.1

- 44. Deforestation is linked to all of the following except:
  - a) release of CO2, which may contribute to an increase in global temperature
  - b) decreased soil fertility
  - c) the extinction of many species
  - d) increasingly dry local climates
  - e) decreased surface water flow into streams and rivers

Ans: e

Difficulty: Medium

Response:

Deforestation; 18.3.2

- 45. Why are tropical rain forests considered so important to global ecology?
  - a) they contribute greatly to the world's carbon and oxygen cycles
  - b) they retard soil erosion
  - c) they contain much of the world's biodiversity
  - d) they mitigate floods and droughts
  - e) all of these

Ans: e

Difficulty: Medium

Response:

Trends in Tropical Forests; 18.3.5

- 46. The countries of Indonesia and the Philippines have which of the following in common?
  - a) desertification
  - b) drought
  - c) rare cold fronts during winter
  - d) high rates of deforestation
  - e) extensive dry tropical forests

Ans: d

Difficulty: Medium

Response:

Trends in Tropical Forests; 18.3.5



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# 47. Subsistence agriculture:

- a) has little or no impact on deforestation since it is a small-scale approach
- b) is where a family produces just enough food to feed itself
- c) is only used by 1 to 2 million farmers today since it is an outdated farming practice
- d) does not use the slash-and-burn agriculture method
- e) is a typical land use practice in highly developed countries

Ans: b

Difficulty: Medium

Response:

Trends in Tropical Forests: 18.3.5

- 48. Which of the following is not a way to slow deforestation?
  - a) replant trees
  - b) allow the land that has been under slash-and-burn agricultural practices to rest for 20 to 100 years
  - c) promote additional slash-and-burn agricultural practices
  - d) harvest trees only at the time they reach harvestable size
  - e) promote land reform changes

Ans: c

Difficulty: Medium

Response:

Trends in Tropical Forests; 18.3.5

- 49. Which of the following statements is true?
  - a) Temperate forests are currently the primary source of the world's industrial wood and wood fiber.
  - b) Temperate forests in the eastern United States are holding steady or even expanding.
  - c) Government protection is responsible for the expansion of virgin stands in the eastern United States.
  - d) Well over sixty percent of U. S. forests are owned and supervised by the government.
  - e) The Forest Legacy Program is a provision of the 1990 Farm Bill that helps to further protect public lands.

Ans: b

Difficulty: Medium

Response:

Forest Trends in the United States: 18.3.3



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- 50. Which of the following statements about Tongass National Forest is false?
  - A single large Sitka spruce from Tongass may yield as much as 10,000 board feet of high-quality lumber.
  - b) Tongass is the largest forest in the National Forest System.
  - Tongass is a prime logging area because it was clear-cut in the early 1900s c) and has now fully re-grown.
  - The modified Tongass Land Management Plan calls for reduced road density d) to protect wildlife habitat.
  - The 1999 modified Tongass Land Management Plan increased timber harvest e) rotations to 200 years.

Ans: c

Difficulty: Medium

Response:

Case in Point: Tongass National Forest; 18.3.4

- 51. Which of the following statements about rangelands is true?
  - Rangelands have native grasses with fibrous root systems that can survive extended periods of drought.
  - Rangelands are valuable for food production but yield no other economically b) valuable resources.
  - c) Rangelands can benefit from overgrazing by cattle since it may actually increase the plant diversity.
  - Rangelands are found in temperate regions, but not in tropical climates. d)
  - e) About 10% of the human population lives in rangelands that border deserts.

Ans: a

Difficulty: Medium

Response:

Rangeland Degradation and Desertification; 18.4.1

- 52. All of the following are benefits of coastal wetlands except:
  - providing food a)
  - b) acting as nurseries for many marine organisms
  - reducing the impact of ozone depletion c)
  - protecting coastlines from erosion d)
  - reducing the damage from hurricanes e)

Ans: c

Difficulty: Medium

Response:

Coastlines: 18.5.1



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- 53. The policy of no net loss of wetlands in the U.S. is only partially successful because:
  - 1) wetland dynamics are not totally understood; reconstructed wetlands do not always provide the essential elements necessary to attract the species of the original habita
  - 2) wetlands developed for the drinking water supply do not have to be replaced; this contributes to overall net loss of wetland
  - 3) there is no routine tracking of compliance to document success
  - 4) the definition of wetland was broadened by Congress, adding marginal wetlands in addition to swamps and marshes
  - a) 1
  - b) 2
  - c) 3
  - d) 4
  - e) Both 1 and 3

Ans: e

Difficulty: Medium

Response:

Wetlands and Coastal Areas; 18.5

- 54. What is the relationship of overgrazing to desertification?
  - a) overgrazing is the destruction of vegetation; desertification is the destruction of a desert ecosystem
  - b) overgrazing results in barren exposed soil; if erosion continues, it contributes to desertification
  - c) overgrazing is brought about by cattle; desertification is brought about by temperature
  - d) overgrazing is caused by too fertile rangeland; desertification is caused by too fertile agricultural land
  - e) overgrazing is a synonym for desertification

Ans: b

Difficulty: Medium

Response:

Rangeland Degradation and Desertification; 18.4.1