

## Environmental Science – Chapter 7

### The value, use, and restoration of ecosystems

Patterns of human use of natural ecosystems

#### Consumptive use

People harvest natural resources to provide themselves with food, shelter, tools, fuel, and clothing

#### Productive use

Exploitation of ecosystem resources

Overall productivity of this area is reduced

Standing stock of nutrients and biomass, once stored in the trees and leaf litter, is enormously reduced

Biodiversity is greatly diminished

Soil is more prone to erosion and drying

The hydrologic cycle is changed as water drains off the land instead of being released by transpiration

A major CO<sub>2</sub> sink is lost

Land no longer yields forest products

People who depend on harvesting forest products lose their livelihood

1. Clear – Cutting and even aged management
  - a. Efficient at the time of harvesting, and does not involve much active management and planning
2. Selective cutting
  - a. Some mature trees are removed in small groups or single
3. Shelterwood cutting
  - a. Mature trees are cut in groups over a period of 10-20 years
  - b. Both 2 and 3 require active management and skill

Since 1990, ecosystem management by the U.S. Forest Service has involved cutting trees at 200-year intervals

Magnuson Stevens Fishery Conservation and Management Act – 1976

FAO (2013)

52% of fish stocks are fully exploited

16% are over exploited and will likely decline

8% are depleted and much less productive than before

# Environmental Science Chapter 7 Concept Review

**William M. Marsh, John Grossa (Jr.)**



## **Environmental Science Chapter 7 Concept Review:**

*Visual Concept Reviews* Richard O. Straub, 2006-08-30 This full color booklet available for free when shrink wrapped with the book or Study Guide offers fill in the blank style concept charts that allow students to apply their understanding of the concepts to real life situations with answers in an appendix Some of the Concept Reviews focus on the biopsychosocial approach thus extending the levels of analysis theme that David Myers has further applied in the text for this edition

**Environmental Science**, *Environmental Science* Robert K. Kaufmann, Cutler J. Cleveland, 2008 Unlike any other introductory environmental science text Robert Kaufmann and Cutler Cleveland's *Environmental Science* takes a fresh approach to the subject by weaving themes of energy and materials economic systems and policy throughout the entire text A story of real science is simply told through examples of cutting edge content real world applications and a distinctive conceptual illustration program *Nations of the Earth Report* United Nations, 1992 **Human Biology** Daniel D.

Chiras, 2013 *Holt Science and Technology* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2001 *Climate Change 2014 - Impacts, Adaptation and Vulnerability: Part A: Global and Sectoral Aspects: Volume 1, Global and Sectoral Aspects* Intergovernmental Panel on Climate Change (IPCC), 2014-12-29 This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change IPCC will again form the standard reference for all those concerned with climate change and its consequences including students researchers and policy makers in environmental science meteorology climatology biology ecology atmospheric chemistry and environmental policy *Climate Change 2014 - Impacts, Adaptation and Vulnerability: Global and Sectoral Aspects* Christopher B. Field, Vicente R. Barros, 2014-12-29 This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change IPCC will again form the standard reference for all those concerned with climate change and its consequences including students researchers and policy makers in environmental science meteorology climatology biology ecology atmospheric chemistry and environmental policy

*Environmental Science* Barbara W. Murck, 2005-05-30 The only popular study guide available on environmental science This new Wiley Self Teaching Guide introduces learners to all the basics of environmental science from air pollution to the water cycle covering both natural systems and human impacts on the environment Using quick quizzes and self tests to reinforce key concepts *Environmental Science* walks students through this interdisciplinary topic with clarity and thoroughness With 125 photographs and illustrations this book is a unique and valuable resource for anyone interested in learning more about and in preserving our green home **Sfaw DuBay Environmental Science Student Edition 1999c**

, 2000 *Environmental Science* Richard T. Wright, Nancy M. Ostiguy, 2005 **The Politics of Healthcare in Britain** Stephen Harrison, Ruth McDonald, 2007-12-18 This is an excellent textbook for which there is currently a niche in the market The chapters on rationing professionalism politics of clinical knowledge and the politics of democracy and participation are particularly strong and will be invaluable to students of health policy health studies and health service research Professor

Michael Calnan University of Bristol Written by leading academics in their field this book provides a clear and considered overview of the politics of health care in Britain Bringing together a wide range of material on both past events and recent developments the chapters cover issues such as the politics of health professionalism clinical knowledge and organisation and management Each chapter offers a a unique combination of theory historical detail and analysis of contemporary events It features case studies to illustrate how policy has evolved and developed in recent years and the implications these changes have for practice Written in an accessible style the chapters also include comprehensive introductions summaries and further reading sections The final chapter is based on three detailed case studies that illuminate the tensions and debates discussed throughout the book The Politics of Healthcare in Britain is a timely and authoritative textbook that covers a key topic of the curriculum whilst also contributing to topical debates The book will be essential reading for students of social policy health policy public policy and nursing It will also be of interest to policy makers and practitioners in the field of health care

*Water Pollution-causes and Cures* Stephen D. Morton,1976      **Teacher's Manual, Introduction to Horticulture**  
Charles B. Schroeder,Eddie D. Seagle,Jasper S. Lee,1997-10      *Psychiatric-Mental Health Nursing* Sheila Videbeck,Sheila Videbeck, PhD RN,2013-07-29 Succeed in your course and prepare for effective practice with Psychiatric Mental Health Nursing 6th Edition Focused throughout on helping you develop the skills and knowledge you ll need on the job this practical book explores the full psychiatric nursing curriculum and gives you opportunities to practice specific nursing interventions build therapeutic communication skills and apply content within the framework of the nursing process A study guide built into every chapter helps you master key concepts and build critical reasoning skills Publisher s description      [Introduction to Environmental Geology](#) Edward A. Keller,2002 CD ROM contains Interactive probelm solving activities corresponding to issues faced by environmental professionals      **A Complete Preparation for the MCAT** Aftab S. Hassan,James L. Flowers,1992 This guide for MCAT preparation applies the principles of active and problem based learning to an updated review of content and skills with models for enhanced problem solving and critical thinking abilities There are details on setting up a self managed study programme with guidelines for time management and stress management All areas tested on the exam are covered verbal reasoning physical science writing sample biological sciences with practice questions to chart progress      *Physical Principles of the Plant Biosystem* George E. Merva,1995 Biosystems engineering as an engineering science Mathematical modeling in the biosystem Properties of water in the green plant biosystem Water movement in the soil plant atmosphere continuum Elementary concepts of green plant anatomy Elements of the green plant physiology Soil environment of the green plant Radiant energy in the green plant environment Heat flow in the soil Water movement in the soil Bibliography      *Environmental Geography* William M. Marsh,John Grossa (Jr.),1996 Describes the use and misuse of the environment and where we seem to be headed as a species on the planet Emphasizes the geographic aspects of problems such as air pollution locational factors scales considerations distributions and spatial associations Provides an overview of the

modern environmental dilemma and the factors which need to be examined in order to gain an understanding of the problem  
Features a review of our planet s open lands and the effort to preserve and manage them Prentice Hall Science Explorer:  
Teacher's ed ,2005

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