

# REFERENCE UNITS

Human population =  $8 \times 10^9$

area

soccer field = 7000 m<sup>2</sup>  
tennis court = 300 m<sup>2</sup>  
room = 10 m<sup>2</sup>

volume

shipping container = 10 m<sup>3</sup>  
bathtub = 0.1 m<sup>3</sup>  
incandescent lightbulb = 100 W

mass

pick-up truck = 2000 kg  
refrigerator = 100 kg  
cinder block = 10 kg

## CATEGORIES

LAND

ENERGY

WATER

FLORA & FAUNA

ATMOSPHERIC & BIOGEOCHEMICAL CYCLES

## SURFACE TEMPERATURE

change in surface temperature since 1850 = 1 °C

## ICE MELT

glaciers =  $3 \times 10^{11}$  m<sup>3</sup>/yr = 1 per 100 per 100 yr  
ice sheets =  $5 \times 10^{11}$  m<sup>3</sup>/yr = 2 per 100 per 100 yr  
sea ice =  $3 \times 10^{11}$  m<sup>3</sup>/yr = 1 per 100 per 100 yr  
total =  $10^{12}$  m<sup>3</sup>/yr = 4 per 100 per 100 yr

## SEA ICE AREA

sea ice area =  $2.5 \times 10^{11}$  m<sup>2</sup> = 1 per 100 per 100 yr

## MATERIAL PRODUCTION

concrete =  $3 \times 10^{11}$  kg / yr = 2 per 100 per 100 yr  
steel =  $2 \times 10^{11}$  kg / yr = 2.5 per 100 per 100 yr  
plastic =  $4 \times 10^{11}$  kg / yr = 5 per 100 per 100 yr

## LIVESTOCK POPULATION

chickens =  $3.5 \times 10^{11}$  = 4 per 100 per 100 yr  
cattle =  $1.5 \times 10^{11}$  = 1 per 50 per 100 yr  
swine =  $1.5 \times 10^{11}$  = 1 per 50 per 100 yr  
all livestock =  $4.5 \times 10^{11}$  = 6 per 100 per 100 yr

## NITROGEN FIXATION

synthetic nitrogen fixation =  $1.5 \times 10^{11}$  kg = 2 per 100 per 100 yr

## OCEAN ACIDITY

% increase in H<sup>+</sup> = 0.4% per 100 yr

## HUMAN POPULATION

urban =  $4.5 \times 10^9$   
rural =  $3.5 \times 10^9$   
total =  $8 \times 10^9$

## GREENHOUSE GAS EMISSIONS

CO<sub>2</sub> =  $4 \times 10^{11}$  kg = 2.5 per 100 per 100 yr  
CH<sub>4</sub> =  $4 \times 10^{11}$  kg = 5 per 100 per 100 yr  
H<sub>2</sub>O =  $1 \times 10^{11}$  kg = 1 per 100 per 100 yr

## SEA LEVEL RISE

rise due to added water = 2 mm per 100 yr  
rise due to thermal expansion = 1.2 mm per 100 yr  
total rise = 3.2 mm per 100 yr

## OCEAN WARMING

heat uptake = 150 TW = 435 per 100 per 100 yr  
temperature change in top 700 m since 1960 = 0.2 °C

## NUCLEAR FALLOUT

globally-distributed mass of plutonium from = 3300 kg = 1.5 per 100 per 100 yr

## CONTEMPORARY EXTINCTION

animal species extinct since 1500 > 750  
plant species extinct since 1500 > 120

## EARTH MOVING

waste from =  $7 \times 10^{11}$  kg / yr = 4 per 100 per 100 yr  
coal mining urbanization >  $15 \times 10^{11}$  kg / yr = 9 per 100 per 100 yr  
agriculture =  $2 \times 10^{11}$  kg / yr = 1 per 100 per 100 yr

## LAND USE

agriculture =  $5 \times 10^{11}$  m<sup>2</sup> = 1 per 100 per 100 yr  
urban =  $7 \times 10^{11}$  m<sup>2</sup> = 1 per 100 per 100 yr

## WATER WITHDRAWAL

agriculture =  $1.3 \times 10^{11}$  m<sup>3</sup>/yr = 6 per 100 per 100 yr  
industrial =  $6 \times 10^{11}$  m<sup>3</sup>/yr = 2.5 per 100 per 100 yr  
domestic =  $5 \times 10^{11}$  m<sup>3</sup>/yr = 65 per 100 per 100 yr  
total =  $2 \times 10^{12}$  m<sup>3</sup>/yr = 8 per 100 per 100 yr

## TOTAL POWER USE

global = 16 TW = 23 per 100 per 100 yr

## POWER FROM FOSSIL FUELS

natural gas = 4.5 TW = 6 per 100 per 100 yr  
coal = 5 TW = 7 per 100 per 100 yr  
oil = 6.5 TW = 8 per 100 per 100 yr  
total = 16 TW = 20 per 100 per 100 yr

## POWER FROM RENEWABLES

wind = 0.3 TW = 1 per 100 per 100 yr  
solar = 0.2 TW = 1 per 100 per 100 yr  
hydroelectric = 1 TW = 1.5 per 100 per 100 yr  
total = 2 TW = 2.5 per 100 per 100 yr

## POWER FROM NUCLEAR FISSION

nuclear power = 0.8 TW = 1 per 100 per 100 yr

## RIVER FRAGMENTATION

volume of dammed and fragmented rivers =  $6 \times 10^{11}$  m<sup>3</sup> = 3 per 100 per 100 yr

## TREE COVERAGE AREA LOSS

deforestation =  $6 \times 10^{11}$  m<sup>2</sup> = 14 per 100 per 100 yr  
forestry =  $5 \times 10^{11}$  m<sup>2</sup> = 15 per 100 per 100 yr  
wildfire =  $7 \times 10^{11}$  m<sup>2</sup> = 1 per 100 per 100 yr  
agriculture =  $7 \times 10^{11}$  m<sup>2</sup> = 1 per 100 per 100 yr  
urbanization =  $2 \times 10^{11}$  m<sup>2</sup> = 1 per 40 per 100 yr  
total =  $2 \times 10^{11}$  m<sup>2</sup> = 2.5 per 100 per 100 yr

## FOSSIL FUEL EXTRACTION

natural gas =  $4 \times 10^{11}$  m<sup>3</sup> / yr = 16 per 100 per 100 yr  
oil =  $6 \times 10^{11}$  m<sup>3</sup> / yr = 8 per 100 per 100 yr  
coal =  $8 \times 10^{11}$  kg / yr = 10 per 100 per 100 yr

## COAL MINERAL RESOURCES

## OIL & NATURAL GAS MINERAL RESOURCES

# Environmental Systems And Human Impact Update

**Gary S. Thorpe**



## **Environmental Systems And Human Impact Update:**

**Complex Environmental Systems** NSF Advisory Committee for Environmental Research and Education, 2003 The success of environmental research and education depends on advances in all science and engineering disciplines and effective collaborations between disciplines

*Human Impact on the Natural Environment* Andrew S. Goudie, 2018-08-20 A brand new edition of the definitive textbook on humankind's impact on the Earth's environment now in full color This classic text explores the multitude of impacts that humans have had over time upon vegetation animals soils water landforms and the atmosphere It considers the ways in which climate changes and modifications in land cover may change the environment in coming decades Thoroughly revised to cover the remarkable transformation in interest that humans are having in the environment this book examines previously uncovered topics such as rewilding ecosystem services techniques for study novel and no analogue ecosystems and more It also presents the latest views on big themes such as human origins the anthropocene domestication extinctions and ecological invasions Extensively re-written *Human Impact on the Natural Environment* Eighth Edition contains many new and updated statistical tables figures and references It offers enlightening chapters that look at the past and present state of the world examining our impact on the land itself and the creatures that inhabit it the oceans lakes rivers and streams and the climate and atmosphere The book also takes a deep look at our future impact on the planet and its resources our affect on the coastal environments the cryosphere and the drylands as well as the hydrological and geomorphological impacts Fully updated to take account of recent advances in our understanding of global warming and other phenomena Offers current opinions on such topics as human origins the anthropocene domestication extinctions and ecological invasions Features a full color presentation to allow for more and clearer photographs and diagrams Contains more international case studies than previous editions to balance UK examples *Human Impact on the Natural Environment* is essential reading for undergraduates in geography and environmental science and for those who want a thorough wide ranging and balanced overview of the impacts of humans upon natural processes and systems from the Stone Age to the Anthropocene and who wish to understand the major environmental issues that concern the human race at the present time

*Instructor's Manual to Chris Park's The Environment* Greg Lewis, 2012-11-12 The very survival of the planet is at risk human misuse of natural resources and disturbance of natural environmental systems is pushing the Earth to the limits of its capacity *The Environment* is a lively comprehensive introduction for environmental study explaining how the environment functions how environmental systems relate and the ways in which people and environment interact Focussing particularly on the environmental impacts of human activities the book explains the ways in which an understanding of basic physical principles can help us to use the environment and its resources Three particular approaches are adopted throughout a systems approach highlighting the interactions and interrelationships between the environment's diverse parts an interdisciplinary perspective stepping back from individual subject focus to examine the complex breadth of the environment

s diversity a global perspective incorporating stimulating examples drawn from around the world to illustrate broad global patterns and contrasts The Environment explains the principles and applications of the different parts of the Earth s system the lithosphere the atmosphere the hydrosphere and explains the interrelationship across these systems It explores the present environmental crisis examines how the planet Earth fits into the wider universe and explores human environment interactions to offer a clear understanding of the diverse and complex environment we live in and new ways of thinking about the way it is changing Specific features include Lively stimulating and accessible text Superb illustrations 4 colour plate sections Case studies drawn from around the world boxed within the text Chapter summaries Annotated further reading lists

A Lecturer s Manual is available to accompany the text **Environmental Science , Principles of Environmental Science and Technology** ,2011-10-10 Principles of Environmental Science and Technology **Environmental Science & Environmental Biology** Mr. Rohit Manglik,2024-03-19 EduGorilla Publication is a trusted name in the education sector

committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *AP Environmental Science Premium, 2025: Prep Book with 5 Practice Tests + Comprehensive Review + Online Practice* Gary S. Thorpe,2024-07-02 Be prepared for exam day with Barron s Trusted content from AP experts Barron s AP Environmental Science Premium 2025 includes in depth content review and practice It s the only book you ll need to be prepared for exam day Written by Experienced Educators Learn from Barron s all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent exam Get a leg up with tips strategies and study advice for exam day it s like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test taking skills with 5 full length practice tests 2 in the book and 3 more online plus detailed answer explanations for all questions Strengthen your knowledge with in depth review covering all units on the AP Environmental Science exam Reinforce your learning with practice questions at the end of each unit that cover all frequently tested topics Learn to think like an environmentalist by reviewing dozens of relevant laws acts and Case Studies that can be cited in your responses to the FRQs Robust Online Practice Continue your practice with 3 full length practice tests and virtual lab experiments on Barron s Online Learning Hub Simulate the exam experience with a timed test option Deepen your understanding with detailed answer explanations and expert advice for all test and lab questions Gain confidence with scoring to check your learning progress **AP Environmental Science Premium, 2026: Prep Book With 5 Practice Tests + Comprehensive Review + Online Practice**

Barron's Educational Series,Gary S. Thorpe,2025-08-05 Be prepared for exam day with Barron s Trusted content from AP experts Barron s AP Environmental Science Premium 2026 includes in depth content review and practice It s the only book you ll need to be prepared for exam day Written by Experienced Educators Learn from Barron s all content is written and reviewed by AP experts Build your understanding with

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**Environmental Science and Technology** Stanley E. Manahan,1997-08-26 This broad overview covers the four traditional spheres of the environment water air earth and life and introduces a fifth sphere the anthrosphere which the author defines as the sphere of human activities especially technology that affect the earth Environmental Science and Technology is organized into six major areas one for each of the five spheres and one introductory section that explains the fundamentals of chemistry biology biochemistry and environmental chemistry Throughout the book the relationships among the five spheres and their connections to the sciences are emphasized For better or worse technology is closely intertwined with the other four spheres Humans utilize resources manufacture goods practice agriculture and engage in other activities that have profound effects on the planet This unique text reference takes a realistic look at the environmental effects of human activities and shows how constructively directed technology can have a beneficial effect on the Earth

**Environmental Science and Technology** Frank R. Spellman,Nancy E. Whiting,2006-06-02 This newly updated reference uses scientific laws principles models and concepts to provide a basic foundation for understanding and evaluating the impact that chemicals and technology have on the environment Designed for both professional and student use the new Second Edition includes recent improvements in the application of new technologies and materials on the environment It places greater emphasis on the three environmental media of air water and soil and discusses how technology can be used to mitigate contamination of all three This edition has been made even more user friendly by communicating with more environmental terms and fewer scientific ones Major topics covered include connections between environmental science and technology air quality water quality soil science and the impact of solid and hazardous waste on the environment Each chapter includes a list of objectives discussion questions and a bibliography for further research

*Our Changing Planet* U.S. Global Change Research Program,1997 **Fundamentals of Environmental Science** Dr. Muthukumaran Pakkirisamy,Chaitali Bhattacharya,Dr. V. Sumalatha,Dr. Shalini Rawat,2024-09-02 Fundamentals

of Environmental Science provides a comprehensive introduction to the essential principles and practices of environmental science. Covering topics like ecosystems, biodiversity, pollution, climate change, and sustainable resource management, this book equips readers with the foundational knowledge needed to understand and address environmental challenges. Designed for students and professionals, it blends scientific concepts with practical applications, offering insights into human impact on the environment and strategies for conservation and sustainability.

**Environmental Science For Beginners** Nicky Huys, 2024-06-18. Environmental Science For Beginners provides a comprehensive introduction to the fundamental concepts of environmental science. From the intricate workings of ecosystems to the impact of human activity on the environment, this book offers a clear and accessible exploration of key environmental issues. Readers will gain a deeper understanding of topics such as climate change, biodiversity, pollution, and sustainable resource management. With engaging explanations and real-world examples, this book serves as an essential primer for anyone seeking to grasp the complexities of environmental science and the urgent need for environmental stewardship.

Environmental Science Daniel Chiras, 2010. Completely updated, the eighth edition of Environmental Science enlightens students on the fundamental causes of the current environmental crisis and offers ideas on how we as a global community can create a sustainable future.

Excel Senior High School Earth and Environmental Science Raimund R. Pohl, 2003.

**Learning Progressions in Science** Alicia C. Alonzo, Amelia Wenk Gotwals, 2012-07-30. Learning progressions are descriptions of increasingly sophisticated ways of thinking about or understanding a topic. National Research Council 2007 represent a promising framework for developing organized curricula and meaningful assessments in science. In addition, well-grounded learning progressions may allow for coherence between cognitive models of how understanding develops in a given domain, classroom instruction, professional development, and classroom and large-scale assessments. Because of the promise that learning progressions hold for bringing organization and structure to often disconnected views of how to teach and assess science, they are rapidly gaining popularity in the science education community. However, there are significant challenges faced by all engaged in this work. In June 2009, science education researchers and practitioners, as well as scientists, psychometricians, and assessment specialists, convened to discuss these challenges as part of the Learning Progressions in Science (LeaPS) conference. The LeaPS conference provided a structured forum for considering design decisions entailed in four aspects of work on learning progressions: defining learning progressions, developing assessments to elicit student responses relative to learning progressions, modeling and interpreting student performance with respect to learning progressions, and using learning progressions to influence standards, curricula, and teacher education. This book presents specific examples of learning progression work and syntheses of ideas from these examples and discussions at the LeaPS conference.

**Encyclopedia of Environmental Change** John A. Matthews, 2013-12-13. Accessibly written by a team of international authors, the Encyclopedia of Environmental Change provides a gateway to the complex facts, concepts, techniques, methodology, and philosophy of environmental change. This

three volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field The encyclopedia includes all of the following aspects of environmental change Diverse evidence of environmental change including climate change and changes on land and in the oceans Underlying natural and anthropogenic causes and mechanisms Wide ranging local regional and global impacts from the polar regions to the tropics Responses of geo ecosystems and human environmental systems in the face of past present and future environmental change Approaches methodologies and techniques used for reconstructing dating monitoring modelling projecting and predicting change Social economic and political dimensions of environmental issues environmental conservation and management and environmental policy Over 4 000 entries explore the following key themes and more Conservation Demographic change Environmental management Environmental policy Environmental security Food security Glaciation Green Revolution Human impact on environment Industrialization Landuse change Military impacts on environment Mining and mining impacts Nuclear energy Pollution Renewable resources Solar energy Sustainability Tourism Trade Water resources Water security Wildlife conservation The comprehensive coverage of terminology includes layers of entries ranging from one line definitions to short essays making this an invaluable companion for any student of physical geography environmental geography or environmental sciences

*The Science of Environmental Pollution* Frank R. Spellman, 2017-07-20 This new edition of *The Science of Environmental Pollution* presents common sense approaches and practical examples based on scientific principles models and observations but keeps the text lively and understandable for scientists and non scientists alike It addresses the important questions regarding environmental pollution What is it What is its impact What are the causes and how can we mitigate them But more than this it stimulates new ways to think about the issues and their possible solutions This third edition has been updated throughout and contains new information on endocrine disruptors in drinking water contaminated sediments in surface waters hydraulic fracturing wastewater and more Also it will include new case studies examples and study questions Environmental issues continue to attract attention at all levels Some sources say that pollution is the direct cause of climate change others deny that the possibility even exists This text sorts through the hyperbole providing concepts and guidelines that not only aid in understanding the issues but equip readers with the scientific rationale required to make informed decisions

**I.S.C. Environmental Science for Class XI** Dr. Nirmal Kapoor, Goyal Brothers Prakashan, 2016-01-01 Goyal Brothers Prakashan

*Environmental Science* Frank R. Spellman, Melissa L. Stoudt, 2013-02-14 *Environmental Science Principles and Practices* provides the scientific principles concepts applications and methodologies required to understand the interrelationships of the natural world identify and analyze environmental problems both natural and manmade evaluate the relative risks associated with these problems and examine alternative solutions such as renewable energy sources for resolving and even preventing them Frank R Spellman and Melissa Stoudt introduce the science of the environmental mediums of air water soil and biota to undergraduate students Interdisciplinary

by nature environmental science embraces a wide array of topics Environmental Science Principles and Practices brings these topics together under several major themes including How energy conversions underlie all ecological processes How the earth's environment functions as an integrated system How human activities alter natural systems How the role of culture social and economic factors is vital to the development of solutions How human survival depends on practical ideas of stewardship and sustainability Environmental Science Principles and Practices is an ideal resource for students of science in the classroom and at home in the library and the lab



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