

# **California Green Jobs Corps Environmental Stewardship Resource Guide**

*The links below provide general information on air, weather and climate, as well as specific topics such as air quality/pollution; carbon and transportation emissions; ozone, radiation, and acid rain; and climate change and global warming. Please note that the links are provided for information purposes only. CaliforniaVolunteers and the Employment Development Department are not responsible for the content of referenced web pages or websites.*

# Table of Contents

<b>General and Sample Curriculum Links.....</b>	<b>3</b>
<b>Air, Weather, and Climate.....</b>	<b>5</b>
<b>Biodiversity, Agriculture, and Horticulture.....</b>	<b>9</b>
<b>Community Issues and Data.....</b>	<b>12</b>
<b>Energy, Resources, and Transportation.....</b>	<b>14</b>
<b>Environment and Society.....</b>	<b>17</b>
<b>Terrestrial Ecosystems and Land Use.....</b>	<b>21</b>
<b>Waste, Recycling, and Pollution.....</b>	<b>23</b>
<b>Water and Aquatic Ecosystems.....</b>	<b>25</b>

# General and Sample Curriculum Links

## *Curriculum*

### **California Environmental Protection Agency (Cal/EPA) and the California Integrated Waste Management Board (CIWMB) Education and the Environment Initiative (EEI)**

Contains links to draft curriculum developed specifically to enhance environmental education goals and academic standards in conjunction with the California Department of Education. Content frequently updated and may not be available long-term. Please save PDFs accordingly.

[www.calepa.ca.gov/Education/EEI/Curriculum/Default.htm#CurriculumUnits](http://www.calepa.ca.gov/Education/EEI/Curriculum/Default.htm#CurriculumUnits)

### **The California Conservation Corps (CCC) Conservation Awareness Program (CAP)**

Please note that while the Conservation Awareness Program provides an example of Corps-based conservation curriculum integrated with work projects, it was developed specifically for CCC members in context to the CCC experience. Developed in 1999, an update of the curriculum is currently underway. Please contact [jessica.alarcon@ccc.ca.gov](mailto:jessica.alarcon@ccc.ca.gov) to obtain the CAP curriculum.

### **California Regional Environmental Education Community (CREEC) Network**

An educational project supported by the California Department of Education in collaboration with state, regional and local partners to create environmental education resources. The online, searchable Resource Directory includes over 1,000 Environmental Education providers and over 2,000 programs/resources available to educators (K-12 to higher education) as well as the general public. The CREEC Network also includes regional calendars with environmental education activities and exhibits, funding opportunities, and teacher professional development opportunities.

[www.creec.org](http://www.creec.org)

### **The Ella Baker Center: Green-Collar Jobs Campaign Teaching Tools**

Designed by the Ella Baker Center, this five-part series of interactive activities explores key themes such as the green economy, eco-equity and eco-privilege, model cities, and restorative justice. Although these activities were designed with high school students in mind, they may be easily adapted for students of all ages. Green-Collar Jobs Campaign's Teaching Tools are aligned with California's English Language Arts and History-Social Science Content Standards.

<http://ellabakercenter.org/page.php?pageid=27&contentid=23>

## *General Information*

### **California Environmental Protection Agency (Cal/EPA)**

State agency charged with developing, implementing, and enforcing California's environmental protection laws that ensure clean air, clean water, clean soil, safe pesticides and waste recycling and reduction. Contains a number of links and resources.

[www.calepa.ca.gov](http://www.calepa.ca.gov)

**Environmental Protection Agency (EPA)**

Federal agency leading the nation's environmental science, research, education and assessment efforts.  
[www.epa.gov](http://www.epa.gov)

**National Geographic Society: Environment**

Contains information, facts, videos, photos and more related to a wide variety of environmental topics from acid rain to wildfires.

<http://environment.nationalgeographic.com/environment>

**U.S. Geological Survey (USGS) and Science Education Portal**

The U.S. Geological Survey provides scientific information intended to help educate the public about natural resources, natural hazards, geospatial data, and issues affecting quality of life. Includes online resources such as lessons, data, and maps to support teaching, learning, K-12 education, and university-level inquiry and research.

<http://education.usgs.gov>

# Air, Weather, and Climate

## *General Links*

### **California Air Resources Board**

List of fact sheets, frequently asked questions, brochures, pamphlets, and more providing general background on a variety of issues addressed by the California Air Resources Board (CARB).

[www.arb.ca.gov/html/fslist.htm](http://www.arb.ca.gov/html/fslist.htm)

### **Electronic Report on the Environment (eROE)**

Presents the best available indicators of national conditions and trends in air, water, land, human health, and ecological systems.

[www.epa.gov/roe](http://www.epa.gov/roe)

### **Envirofacts: EPA's Data Warehouse**

National information system providing an integrated single point of access to data extracted from six major EPA databases. Find data about air, water, waste, land, toxics, radiation, facilities, and more.

[www.epa.gov/enviro](http://www.epa.gov/enviro)

### **Environmental Literacy Council: Teaching Air and Climate**

The Environmental Literacy Council offers teachers a comprehensive index of lesson plans, background information, and interactive activities on the subjects of air quality, acid rain, air particles, and ozone.

[www.enviroliteracy.org/category.php/1.html](http://www.enviroliteracy.org/category.php/1.html)

### **National Oceanic and Atmospheric Administration (NOAA) Web Site**

Contains information, activities, and background information, on weather, climate change, and oceans.

[www.noaa.gov](http://www.noaa.gov)

## *Air Quality/Pollution*

### **Air Graphics Zip Code Locator**

Access air pollution data for the entire United States.

[www.epa.gov/air/data](http://www.epa.gov/air/data)

### **AIRNOW**

Look up information about air pollution in your community. Includes maps, forecasts, and information about the health effects of air pollution.

[www.epa.gov/airnow](http://www.epa.gov/airnow)

### **American Lung Association State of the Air report**

Text of the American Lung Association's 'State of the Air' report.

[www.lungusa.org/site/c.dvLUK9O0E/b.36864/k.9F49/State\\_of\\_the\\_Air.htm](http://www.lungusa.org/site/c.dvLUK9O0E/b.36864/k.9F49/State_of_the_Air.htm)

### **California Air Resources Board's Data and Statistics**

Compilation of the California Air Resources Board (ARB) air quality data.

[www.arb.ca.gov/html/ds.htm](http://www.arb.ca.gov/html/ds.htm)

### **EPA Air Quality Environmental Education Resources**

Contains a number of environmental education resources from the Environmental Protection Agency related to air quality, ozone, and transportation. All resources listed are free of charge and can be either downloaded or ordered online.

[www.epa.gov/Education/airquality.html](http://www.epa.gov/Education/airquality.html)

### **Indoor and Outdoor Air Pollution**

Covers the types, causes and effects of pollution in our atmosphere.

<http://www.lbl.gov/Education/ELSI/pollution-main.html>

### **The Inside Story**

Provides basic facts about pollutants found inside our buildings and homes.

[www.epa.gov/iaq/pubs/insidest.html](http://www.epa.gov/iaq/pubs/insidest.html)

### **Nature Net** (National Park Service)

Detailed materials about air pollution and other environmental issues within national parks.

<http://www.nature.nps.gov/air>

### **The Plain English Guide to the Clean Air Act**

Guide to understanding the Clean Air Act.

[www.earth1.epa.gov/air/caa/peg](http://www.earth1.epa.gov/air/caa/peg)

## ***Carbon and Transportation Emissions***

### **Count Down Your Carbon**

See how choices can result in real carbon reductions by tracking your individual reductions as well as the collective effort.

[www.CountDownYourCarbon.org](http://www.CountDownYourCarbon.org)

### **Fuel Economy Site**

Visit this site to learn about fuel economy, current and future fuel technology, and its importance to us.

[www.fueleconomy.gov/feg](http://www.fueleconomy.gov/feg)

### **XRT Road Trip**

Educational computer game designed to teach players how to analyze the transportation variables affecting air quality. Free copies of the game are available through the website.

[www.extraordinaryroadtrip.org](http://www.extraordinaryroadtrip.org)

### **Your Car and Clean Air (PDF)**

A fact sheet that answers some common questions about reducing emissions from private vehicles.  
[www.epa.gov/otaq/consumer/18-youdo.pdf](http://www.epa.gov/otaq/consumer/18-youdo.pdf)

## ***Ozone, Acid Rain, and Radiation***

### **Effects of Acid Rain**

Fact sheets that define acid rain, its causes and effects on our planet.  
[www.epa.gov/acidrain/effects/index.html](http://www.epa.gov/acidrain/effects/index.html)

### **Ozone Depletion**

Links to overview discussions and detailed answers to many questions about specific aspects of ozone depletion.  
[www.epa.gov/ozone/science](http://www.epa.gov/ozone/science)

### **Ozone: Good Up High, Bad Nearby**

Provides basic information about ground-level and high-altitude ozone.  
[www.epa.gov/oar/oaqps/gooduphigh](http://www.epa.gov/oar/oaqps/gooduphigh)

### **RadTown USA**

RadTown USA is a virtual community that aims to educate students about the sources of radiation in our daily lives.  
[www.epa.gov/radtown](http://www.epa.gov/radtown)

## ***Climate Change and Global Warming***

### **California Air Resources Board's Climate Change Curriculum Resources**

Website for educators containing links to lesson plans, activities and teaching modules on climate change subjects.  
[www.arb.ca.gov/cc/curriculum/curriculum.htm](http://www.arb.ca.gov/cc/curriculum/curriculum.htm)

### **Climate Change**

Site about climate change-- what it is, what it can do, and what's being done about it.  
[www.epa.gov/climatechange](http://www.epa.gov/climatechange)

### **Climate Prediction Center**

The Climate Prediction Center serves the public by assessing and forecasting the impacts of short-term climate variability and emphasizing enhanced risks of weather-related extreme events. Educational materials include information on the ENSO cycle, and fact sheets and monographs.  
[www.cpc.ncep.noaa.gov/products/outreach/education.shtml](http://www.cpc.ncep.noaa.gov/products/outreach/education.shtml)

### **CoolCalifornia.org**

Site providing tools for Californians to voluntarily reduce global warming pollution.  
[www.coolcalifornia.org/](http://www.coolcalifornia.org/)

### **EPA Global Climate Change Environmental Education Resources**

Contains a number of environmental education resources from the Environmental Protection Agency related to global climate change. All resources listed are free of charge and can be either downloaded or available by order online.

[www.epa.gov/Education/globalclimate.html](http://www.epa.gov/Education/globalclimate.html)

### **Global Warming Facts and Our Future**

Explore the latest scientific information on global warming. Discover how a warmer climate might affect your life and what could be done to minimize the potentially harmful effects of climate change.

[www.koshlandscience.org/exhibitgcc](http://www.koshlandscience.org/exhibitgcc)

### **National Wildlife Foundation(NWF): Wildlife and Global Warming**

Contains links related to the effects of global warming on wildlife. Includes discussion of the effect of weather changes on salmon, birds, sea-level, polar bears, and coral reefs.

[www.nwf.org/wildlifeandglobalwarming/](http://www.nwf.org/wildlifeandglobalwarming/)

### **U.S. Global Change Research Program (USGCRP)**

Federal research on changes in the global environment and their implications for society.

[www.globalchange.gov/](http://www.globalchange.gov/)

### **What's Up with Global Warming?**

Partnered with the National Wildlife Foundation, ClimateChange.org contains curriculum and resources to help students understand and analyze the science of global climate change and its relevance to both current events and their daily lives.

[www.climateclassroom.org/teens](http://www.climateclassroom.org/teens)

# Biodiversity, Agriculture, and Horticulture

## *General*

### **Action Bioscience: Environment**

Learn about current topics related to the environment through this wide range of peer-reviewed articles by scientists, science educators, and science students. Topics include climate change, deforestation, food and medicine, health of humans and ecosystems, overpopulation impacts and water resources. Site also provides original lessons and resources to enhance bioscience teaching.

[www.actionbioscience.org/environment/](http://www.actionbioscience.org/environment/)

## *Biodiversity and Wildlife*

### **Action Bioscience: Biodiversity**

Learn about current topics related to biodiversity through this wide range of peer-reviewed articles by scientists, science educators, and science students. Topics include diversity of species, endangered species, invasive species, management and conservation, and microorganisms. Site also provides original lessons and resources to enhance bioscience teaching.

[www.actionbioscience.org/biodiversity/](http://www.actionbioscience.org/biodiversity/)

### **Biodiversity Project**

List of resources and links about how individuals can protect biodiversity.

[www.biodiversityproject.org/html/biodiversity/individuals.htm](http://www.biodiversityproject.org/html/biodiversity/individuals.htm)

### **Biology Resources Division of the U.S. Geological Survey**

The Biology Resource Division of USGS includes, among other things, descriptions of cooperative project with schools and databases of information by state. Other topics include ecosystems, invasive species, as well as both terrestrial and aquatic endangered wildlife/resources.

<http://biology.usgs.gov>

### **Conservation and Biodiversity**

A hypertext book by Peter J. Bryant, School of Biological Sciences, University of California, Irvine, examines the origin, nature and value of biological diversity, the threats to its continued existence, and approaches to preserving what is left.

<http://darwin.bio.uci.edu/~sustain/bio65/Titlepage.htm>

### **Endangered Species Program**

Link to the Endangered Species Act as well as information and educational materials on endangered and threatened species.

[www.endangered.fws.gov](http://www.endangered.fws.gov)

### **EPA and Bird Conservation**

Learn about bird conservation initiatives and how to promote healthy wildlife and ecosystems.

[www.epa.gov/owow/birds](http://www.epa.gov/owow/birds)

### **Fish and Wildlife Species**

From the Fish and Wildlife Service, includes basic information about birds, invasive species, and more. Also contains an image library and wildlife fact sheets.

[www.species.fws.gov](http://www.species.fws.gov)

### **National Wildlife Foundation(NWF): Wildlife and Global Warming**

Contains links related to the effects of global warming on wildlife. Includes discussion of the effect of weather changes on salmon, birds, sea-level, polar bears, and coral reefs.

[www.nwf.org/wildlifeandglobalwarming/](http://www.nwf.org/wildlifeandglobalwarming/)

### **World Atlas of Biodiversity**

The United Nations Environment Program's (UNEP) first *World Atlas of Biodiversity* which includes an online interactive map searchable by species/land/water loss, extinction over time, and human global development.

<http://stort.unep-wcmc.org/imaps/gb2002/book/viewer.htm>

## ***Food and Agriculture***

### **Environmental Inquiry**

Developed by Cornell University to help students and teachers conduct environmental science research and participate in communities of fellow scientists. Includes topics such as biodegradation (composting, bioremediation, and wastewater treatment), invasive species, and watersheds.

<http://ei.cornell.edu>

### **Environmental Literacy Council: Teaching Food**

Contains a number of teaching resources related to food land use including crops, fisheries, food supply and production, food safety, livestock, and integrated pest management.

[www.enviroliteracy.org/category.php/6.html](http://www.enviroliteracy.org/category.php/6.html)

### **National Wildlife Foundation's Gardener's Guide to Global Warming**

Resources on how climate change is affecting plants.

[www.nwf.org/gardenforwildlife](http://www.nwf.org/gardenforwildlife)

## *Pesticides and Pest Management*

### **EPA Pesticides, Toxic Substances, and Integrated Pest Management Environmental Education Resources**

Contains a number of environmental education resources from the Environmental Protection Agency related to pesticides, toxic substances, and integrated pest management. All resources listed are free of charge and can be either downloaded or ordered online.

<http://www.epa.gov/Education/pesticides.html>

### **National Pesticide Information Center (NPIC)**

Everything you ever wanted to know about pesticides. This cooperative effort between EPA and Oregon State University provides information from EPA, state agencies, academia and Canada, including information for health care providers.

[www.npic.orst.edu](http://www.npic.orst.edu)

### **What is a Pesticide?**

This page includes a definition of what a pesticide is as well as examples of common pesticides that can be found around the house.

[www.epa.gov/pesticides/about](http://www.epa.gov/pesticides/about)

### **University of California, Davis Statewide Integrated Pest Management Program**

Contains research, links, and interactive tools about pest management problems.

[www.ipm.ucdavis.edu](http://www.ipm.ucdavis.edu)

# Community Issues and Data

## **Air Graphics Zip Code Locator**

Access air pollution data for the entire United States.

[www.epa.gov/air/data](http://www.epa.gov/air/data)

## **AIRNOW**

Get up-to-the-minute information about air pollution in your community. Includes maps, forecasts, and information about the health effects of air pollution.

[www.epa.gov/airnow](http://www.epa.gov/airnow)

## **Earth 911**

Network of environmental hotlines, web sites and other information sources nationwide, community-specific information on eCycling and much more. Also provides tools to locate recycling centers in your community for all types of recyclables.

<http://earth911.com/>

## **Ecological Footprint Quiz**

The Ecological Footprint Quiz estimates how much productive land and water you need to support what you use and what you discard.

[www.earthday.net/footprint/index.html](http://www.earthday.net/footprint/index.html)

## **Ecological Research Program**

Provides information on research conducted by the Ecological Research Program to identify, quantify and assess the goods and services of ecosystems.

[www.epa.gov/ord/esrp/index.htm](http://www.epa.gov/ord/esrp/index.htm)

## **Electronic Report on the Environment (eROE)**

Presents the best available indicators of national conditions and trends in air, water, land, human health, and ecological systems.

[www.epa.gov/roe](http://www.epa.gov/roe)

## **Envirofacts: EPA's Data Warehouse**

National information system providing an integrated single point of access to data extracted from six major EPA databases. Find data about air, water, waste, land, toxics, radiation, facilities, and more..

[www.epa.gov/enviro](http://www.epa.gov/enviro)

## **Healthy School Environments**

A gateway to on-line resources to help facility managers, school administrators, architects, design engineers, school nurses, parents, teachers and the general public address environmental health issues in schools.

[www.cfpub.epa.gov/schools/index.cfm](http://www.cfpub.epa.gov/schools/index.cfm)

### **RadTown USA**

RadTown USA is a virtual community that aims to educate students about the sources of radiation in our daily lives.

[www.epa.gov/radtown](http://www.epa.gov/radtown)

### **Surf Your Watershed**

Locate, use, and share environmental information on your watershed or community.

[www.epa.gov/surf](http://www.epa.gov/surf)

### **The Ultraviolet (UV) Index**

Several publications explaining the Ultraviolet Index and steps you can take to minimize the risks from overexposure to the sun's rays. Each is available for reading online and downloading. You can also find the current UV index for your zip code.

[www.epa.gov/sunwise/uvindex.html](http://www.epa.gov/sunwise/uvindex.html)

### **Water Where You Live**

Find all about streams, rivers, lakes, and beaches in your state.

[www.epa.gov/ow/states.html](http://www.epa.gov/ow/states.html)

### **Window to My Environment**

This interactive map enables you to see land use and environmental conditions for your community, including local population density, release of toxic substances, Superfund sites, and environmental monitoring stations.

[www.epa.gov/myenvironment](http://www.epa.gov/myenvironment)

### **Zip Code Search**

Get specific environmental information about your neighborhood by entering your zip code on this site.

[www.epa.gov/epahome/commsearch.htm](http://www.epa.gov/epahome/commsearch.htm)

# Energy, Resources, and Transportation

## *Energy*

### **Environmental Literacy Council-Teaching Energy**

Provides educators with many lab and activity plans for nuclear energy, wind energy, fossil fuels, and more.

[www.enviroliteracy.org/category.php/4.html](http://www.enviroliteracy.org/category.php/4.html)

### **EPA: Energy Portal**

Contains a variety of energy topics and ways to locate information about EPA energy programs.

[www.epa.gov/Energy/index.html](http://www.epa.gov/Energy/index.html)

### **EPA Clean Energy**

Contains information for individuals, state/local programs, clean energy and programs. Also has links to resources such as a Power Profiler and Greenhouse Gas Equivalencies Calculator.

[www.epa.gov/cleanenergy/index.html](http://www.epa.gov/cleanenergy/index.html)

### **Clean Energy Resources Database**

Compiled by more than 60 leading organizations and the EPA, this searchable database describes key resources and documents relevant to the National Action Plan for Energy Efficiency, which addresses the following issues: Evaluation, Measurement and Verification; Energy Efficiency Potential Studies; Cost Effectiveness; Program Design and Implementation; Dynamic Rates; Resource Planning; Cost Recovery and Incentives; and Codes and Standards. The database also includes information on the following subjects: Funding and Incentives; Emissions Trading; State Management Best Practices; Air Quality; Clean Energy Supply; Local Government; and Portfolio Standards.

[www.epa.gov/cleanenergy/energy-programs/napee/resources/database.html](http://www.epa.gov/cleanenergy/energy-programs/napee/resources/database.html)

### **Energy Star**

Joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy to promote environmental stewardship by promoting energy efficient products and practices in homes and businesses.

[www.energystar.gov](http://www.energystar.gov)

### **Green Power Partnership**

The Green Power Partnership is a voluntary program that supports the organizational procurement of green power by offering expert advice, technical support, tools and resources.

[www.epa.gov/greenpower/index.htm](http://www.epa.gov/greenpower/index.htm)

## ***Resources***

**California Environmental Resources Evaluation System (CERES)**—Environmental Education  
Developed by the California Resources Agency to facilitate access to a variety of electronic data describing California's rich and diverse environments, CERES integrates natural and cultural resource information from multiple contributors.  
<http://ceres.ca.gov/education>

**Environmental Monitoring and Assessment Program (EMAP)**  
Data, metadata, data set descriptions and documents from EPA's Environmental Monitoring and Assessment Program. The research program develops tools to monitor and assess the status and trends of national ecological resources.  
[www.epa.gov/emap](http://www.epa.gov/emap)

**EPA's Clean Energy Program**  
Contains information and resources about clean energy policy and technology.  
[www.epa.gov/RDEE/index.html](http://www.epa.gov/RDEE/index.html)

**Your Environment, Your Choice**  
Provides resources about making environmentally sound choices products and natural resources, waste, and the environment.  
[www.epa.gov/epawaste/education/teens](http://www.epa.gov/epawaste/education/teens)

## ***Transportation***

**Count Down Your Carbon**  
See how choices can result in real carbon reductions by tracking individual reductions as well as the collective effort.  
[www.CountDownYourCarbon.org](http://www.CountDownYourCarbon.org)

**EPA Sustainability: Energy, Biofuels & Climate Change**  
Contains information about policy, programs, research, tools, and technology related to energy, biofuels, and climate change.  
[www.epa.gov/sustainability/water.htm](http://www.epa.gov/sustainability/water.htm)

**Fuel Economy Site**  
Learn about fuel economy, current and future fuel technology, and its importance to us. Also contains information on hybrids, biodiesel, and fuel cell technology.  
[www.fueleconomy.gov/feg](http://www.fueleconomy.gov/feg)

**XRT Road Trip**  
Educational computer game designed to teach players how to analyze the transportation variables affecting air quality. Free copies of the game are available through the website.  
[www.extraordinaryroadtrip.org](http://www.extraordinaryroadtrip.org)

**Your Car and Clean Air (PDF)**

A fact sheet that answers some common questions about reducing emissions from private vehicles.

[www.epa.gov/otaq/consumer/18-youdo.pdf](http://www.epa.gov/otaq/consumer/18-youdo.pdf)

# Environment and Society

## *General Links*

### **Environmental Literacy Council: Teaching Environment and Society**

Contains a number of teaching resources related to the environment including topics such as economics, resource use, health, materials use, population, transportation, and waste management.

[www.enviroliteracy.org/category.php/5.html](http://www.enviroliteracy.org/category.php/5.html)

## *Health and Safety*

### **A Citizen's Guide to Radon**

The complete guide to taking action to lower the radon level in your home. It offers radon testing strategies, discussions of next steps, the risks of radon as well as radon myths.

[www.epa.gov/radon/pubs/citguide.html](http://www.epa.gov/radon/pubs/citguide.html)

### **AIRNOW**

Get up-to-the-minute information about air pollution in your community. Includes maps, forecasts, and information about the health effects of air pollution.

[www.epa.gov/airnow](http://www.epa.gov/airnow)

### **American Lung Association State of the Air report**

Want to learn about the air quality in your community? Read the American Lung Association's 'State of the Air' report to find out more.

[www.lungusa.org/site/c.dvLUK9O0E/b.36864/k.9F49/State\\_of\\_the\\_Air.htm](http://www.lungusa.org/site/c.dvLUK9O0E/b.36864/k.9F49/State_of_the_Air.htm)

### **Asthma**

Learn about asthma and upper respiratory illnesses.

[www.epa.gov/iaq/asthma](http://www.epa.gov/iaq/asthma)

### **Envirofacts: EPA's Data Warehouse**

National information system providing an integrated single point of access to data extracted from six major EPA databases. Find data about air, water, waste, land, toxics, radiation, facilities, and more..

[www.epa.gov/enviro](http://www.epa.gov/enviro)

### **EPA Indoor Air and Asthma Environmental Education Resources**

Contains a number of environmental education resources from the Environmental Protection Agency related to indoor air and asthma. All resources listed are free of charge and can be either downloaded or ordered online.

[www.epa.gov/Education/airasthma.html](http://www.epa.gov/Education/airasthma.html)

### **EPA Sustainability: Materials Management & Human Health**

Contains information about policy, programs, research, tools, and technology related to managing materials and health concerns.

[www.epa.gov/sustainability/water.htm](http://www.epa.gov/sustainability/water.htm)

### **The Inside Story**

Questions about indoor air quality? This page provides basic facts about pollutants found inside our buildings and homes.

[www.epa.gov/iaq/pubs/insidest.html](http://www.epa.gov/iaq/pubs/insidest.html)

### **Lead in Paint, Dust, and Soil**

Find information from the National Lead Information Center, including pamphlets featuring general information about lead hazards and lead poisoning prevention in the home.

[www.epa.gov/opptintr/lead/](http://www.epa.gov/opptintr/lead/)

### **Mercury**

Information about mercury, its health effects, studies, and what you can do to reduce exposures to mercury.

[www.epa.gov/mercury](http://www.epa.gov/mercury)

### **Ozone: Good Up High, Bad Nearby**

Ozone acts as a protective layer high above the Earth, but it can be harmful to breathe. This publication provides basic information about ground-level and high-altitude ozone.

[www.epa.gov/oar/oaqps/gooduphigh](http://www.epa.gov/oar/oaqps/gooduphigh)

### **RadTown USA**

RadTown USA is a virtual community that aims to educate students about the sources of radiation in our daily lives.

[www.epa.gov/radtown](http://www.epa.gov/radtown)

### **The Ultraviolet (UV) Index**

Several publications explaining the Ultraviolet Index and steps to minimize the risks from overexposure to the sun's rays. Each is available for reading online and downloading. You can also find the current UV index for your zip code.

[www.epa.gov/sunwise/uvindex.html](http://www.epa.gov/sunwise/uvindex.html)

## ***Green Economy, Business, and Technology***

### **The Center for Environmental Leadership in Business**

The Center develops and demonstrates innovative, replicable business practices that focus on three critical issues: biodiversity, water, and climate change.

[www.celb.org/xp/CELB](http://www.celb.org/xp/CELB)

### **Eco-Earth**

An environmental portal providing full text searches of reviewed Internet content, news, links and more at the international level.

[www.ecoearth.info](http://www.ecoearth.info)

### **EPA Green Communities Program**

Green Communities is a web-based toolkit and planning guide designed to help communities access the tools and information to help them become more sustainable, Green Communities. The Green Communities website contains a portal to tools and information on the best strategies, programs and policies to reduce your environmental footprint. A 5-step environmental planning framework can help lead you to a greener, sustainable future.

[www.epa.gov/greenkit/basicinformation.htm](http://www.epa.gov/greenkit/basicinformation.htm)

### **GreenBiz**

Contains resources on aligning environmental responsibility with businesses including daily news, tools, electronic newsletters, online events, reports, blogs, checklists, case studies, and links to best practices, organizations, technical assistance programs, government agencies, and recognition programs.

[www.greenbiz.com](http://www.greenbiz.com)

### **National Geographic's "Green Guide"**

Guide for everyday living containing tips and resources on how to live "green."

[www.thegreenguide.com/](http://www.thegreenguide.com/)

### **State of Green Business Report**

Report on what U.S. businesses are doing to be greener and more environmentally responsible. Also includes the GreenBiz Index, a set of 20 indicators of progress, tracking the resource use, emissions, and business practices of U.S. companies: carbon, materials, energy, and toxics intensity, clean-tech investments, e-waste recovery, paper use, employee commuting, and more.

[www.stateofgreenbusiness.com](http://www.stateofgreenbusiness.com)

## ***Environmental Justice and Stewardship***

### **CalEPA Environmental Justice Program Resources and Links**

Contains policy information as well as resources and links to other local, state, federal and environmental justice websites.

[www.calepa.ca.gov/EnvJustice/Resources](http://www.calepa.ca.gov/EnvJustice/Resources)

### **CooperativeConservation.gov**

Partnership among Federal agencies to provide Web-based information, tools, and resources to enhance, restore, and protect lands, waters, air, and wildlife resources on public and private lands. The partner agencies include the Department of Agriculture, Department of Commerce, Department of Defense, Department of the Interior, and the Environmental Protection Agency.

<http://cooperativeconservation.gov/>

### **EPA: Environmental Stewardship**

Contains links to information, program and tips for individuals, communities, and business to practice environmental stewardship.

[www.epa.gov/stewardship/index.htm](http://www.epa.gov/stewardship/index.htm)

### **EPA: Sustainability**

Examines sustainability and provides links to EPA programs and tools in four key areas: the Built or Human-Created Environment; Water, Ecosystems and Agriculture; Energy and the Environment; and Materials and Toxics. Links to the programs and tools are organized in three categories: Policies and Programs; Research, Tools and Technologies; and Assessments and Performance Measures.

[www.epa.gov/sustainability/](http://www.epa.gov/sustainability/)

### **Office of the Federal Environmental Executive**

Promotes sustainable environmental stewardship throughout the federal government. Activities include: encouraging sustainable practices; identifying and sharing success stories, best practices, and other tools to make sustainable practices easier to adopt and maintain; providing training, awareness, and outreach; assisting in coordinating and advancing sustainability policies across agencies; publicly advocating and supporting sustainable practices and policies; and measuring and reporting on agencies' progress.

[www.ofee.gov](http://www.ofee.gov)

### **The Tellus Institute**

Tellus Institute works to advance a global civilization of sustainability, equity and well-being through research, education, and action.

[www.tellus.org](http://www.tellus.org)

### **UN Division for Sustainable Development**

Authoritative source on sustainable development issues worldwide.

[www.un.org/esa/dsd/index.shtml](http://www.un.org/esa/dsd/index.shtml)

### **University of California, Santa Cruz: Center for Justice, Tolerance, and Community (CJTC) Environmental Justice Project**

Contains links to research and reports on a variety of topics related to environmental justice.

<http://cjtc.ucsc.edu/environmentaljustice.htm>

# Terrestrial Ecosystems and Land Use

## *General Links*

### **Ecological Footprint Quiz**

The Ecological Footprint Quiz estimates how much productive land and water you need to support what you use and what you discard.

[www.earthday.net/footprint/index.html](http://www.earthday.net/footprint/index.html)

### **Ecological Research Program**

Provides information on research conducted by the Ecological Research Program to identify, quantify and assess the goods and services of ecosystems.

[www.epa.gov/ord/esrp/index.htm](http://www.epa.gov/ord/esrp/index.htm)

### **Electronic Report on the Environment (eROE)**

Presents the best available indicators of national conditions and trends in air, water, land, human health, and ecological systems.

[www.epa.gov/roe](http://www.epa.gov/roe)

### **Envirofacts: EPA's Data Warehouse**

National information system providing an integrated single point of access to data extracted from six major EPA databases. Find data about air, water, waste, land, toxics, radiation, facilities, and more..

[www.epa.gov/enviro](http://www.epa.gov/enviro)

### **Environmental Literacy Council: Teaching Land**

Contains a number of teaching resources related to land use including planning, urbanization, forests, soil, and more.

[www.enviroliteracy.org/category.php/2.html](http://www.enviroliteracy.org/category.php/2.html)

## *Land Use and Planning*

### **California Environmental Digital Atlas**

From the California Natural Recourse Agency, the California Environmental Digital Atlas offers an array of environmental data to aid in regional conservation planning and analysis.

<http://atlas01.resources.ca.gov/mx>

### **CERES' Land Use Planning Information Network (LUPIN)**

Provides an aggregate view of California's land use and environmental planning information including county general plans, environmental assessment documents, and related information. LUPIN enables Californians to make better informed decisions about land use, resource conservation, and ecosystem management by identifying and assessing the cumulative environmental impact of planning decisions.

<http://ceres.ca.gov/planning>

### **EPA's Urban Sustainability and the Built Environment**

Contains information about policy, programs, research, tools, and technology related to urban sustainability.

[www.epa.gov/sustainability/builtenvironment.htm](http://www.epa.gov/sustainability/builtenvironment.htm)

### **UN Division for Sustainable Development**

Authoritative source on sustainable development worldwide.

[www.un.org/esa/dsd/index.shtml](http://www.un.org/esa/dsd/index.shtml)

## ***Terrestrial Ecosystems***

### **American Forests**

From the U.S. Forest Service comes this Primer on Forest Ecosystem Health, focusing on seven general concerns including loss of biodiversity and pollution.

[www.fs.fed.us/dxnf/lrmp3.htm](http://www.fs.fed.us/dxnf/lrmp3.htm)

### **Action Bioscience: Environment**

Learn about current topics related to the environment through this wide range of peer-reviewed articles by scientists, science educators, and science students. Topics include climate change, deforestation, food and medicine, health of humans and ecosystems, overpopulation impacts and water resources. Site also provides original lessons and resources to enhance bioscience teaching.

[www.actionbioscience.org/environment](http://www.actionbioscience.org/environment)

### **Biology Resources Division of the U.S. Geological Survey**

The Biology Resource Division of USGS includes, among other things, descriptions of cooperative project with schools and data bases of info by state. Other topics include ecosystems, invasive species, as well as both terrestrial and aquatic endangered wildlife/resources.

<http://biology.usgs.gov>

### **Nature Net (National Park Service)**

Detailed materials about environmental issues within national parks.

[www.nature.nps.gov](http://www.nature.nps.gov)

# Waste, Recycling, and Pollution

## *General*

### **Ecological Footprint Quiz**

The Ecological Footprint Quiz estimates how much productive land and water you need to support what you use and what you discard.

[www.earthday.net/footprint/index.html](http://www.earthday.net/footprint/index.html)

### **Envirofacts: EPA's Data Warehouse**

National information system providing an integrated single point of access to data extracted from six major EPA databases. Find data about air, water, waste, land, toxics, radiation, facilities, and more.

[www.epa.gov/enviro](http://www.epa.gov/enviro)

## *Pollution*

### **About Superfund**

Provides an overview of the Superfund program, highlights key steps in the Superfund cleanup process, explains how the program is enforced, describes EPA's Superfund offices, and links to other EPA hazardous-waste programs.

[www.epa.gov/superfund/about.htm](http://www.epa.gov/superfund/about.htm)

### **EPA Global Pollution Prevention Environmental Education Resources**

Contains a number of environmental education resources from the Environmental Protection Agency related to global climate change. All resources listed are free of charge and can be either downloaded or ordered online.

[www.epa.gov/Education/pollutionprev.html](http://www.epa.gov/Education/pollutionprev.html)

### **Window to My Environment**

This interactive map enables you to see land use and environmental conditions for your community, including local population density, release of toxic substances, Superfund sites, and environmental monitoring stations.

[www.epa.gov/myenvironment](http://www.epa.gov/myenvironment)

## *Recycling*

### **Earth 911**

Network of environmental hotlines, web sites and other information sources nationwide, community-specific information on eCycling and much more. Also provides tools to locate recycling centers in your community for all types of recyclables.

<http://earth911.com>

### **EPA Resource Conservation and e-Cycling**

Web sites and organizations that can provide information on opportunities for donating and recycling computers and other electronics.

<http://www.epa.gov/epawaste/consERVE/materials/ecycling/donate.htm>

### **Where Can I Donate or Recycle My Old Computer and Other Electronic Products?**

Web sites and organizations that can provide information on opportunities for donating and recycling computers and other electronics.

[www.epa.gov/epawaste/consERVE/materials/ecycling/donate.htm](http://www.epa.gov/epawaste/consERVE/materials/ecycling/donate.htm)

### **Recycling**

Discusses a combination of solutions to manage reducing and reusing waste, recycling, burning trash for energy recovery, and land filling are all parts of the solution.

[www.epa.gov/epawaste/consERVE/rrr/recycle.htm](http://www.epa.gov/epawaste/consERVE/rrr/recycle.htm)

## ***Waste***

### **The Consumer's Handbook for Reducing Solid Waste**

Discover why trash is a problem, why recycling is useful, and what you can do to reduce solid waste.

[www.epa.gov/osw/wycd/catbook](http://www.epa.gov/osw/wycd/catbook)

### **Cornell Waste Management Institute (CWMI)**

List of written and audio-visual materials produced by CWMI about managing wastes.

<http://cwmi.css.cornell.edu/resources.htm>

### **Environmental Inquiry**

Developed by Cornell University to help students and teachers conduct environmental science research and participate in communities of fellow scientists. Includes topics such as biodegradation (composting, bioremediation, and wastewater treatment), invasive species, and watersheds.

<http://ei.cornell.edu>

### **EPA Solid and Hazardous Waste Environmental Education Resources**

Contains a number of environmental education resources from the Environmental Protection Agency related to global climate change. All resources listed are free of charge and can be either downloaded or ordered online.

[www.epa.gov/Education/solidwaste.html](http://www.epa.gov/Education/solidwaste.html)

### **Municipal Solid Waste in the United States**

Report providing the latest facts and figures on municipal solid waste generation, recycling, and disposal in the United States, based on data collected since 1960.

[www.epa.gov/epawaste/nonhaz/municipal/msw99.htm](http://www.epa.gov/epawaste/nonhaz/municipal/msw99.htm)

# Water and Aquatic Ecosystems

## *General Links*

### **Action Bioscience: Environment**

Learn about current topics through this wide range of peer-reviewed articles by scientists, science educators, and science students. Topics include climate change, deforestation, food and medicine, health of humans and ecosystems, overpopulation impacts and water resources. Site also provides original lessons and resources to enhance bioscience teaching. See below for particular articles of interest.

[www.actionbioscience.org/environment](http://www.actionbioscience.org/environment)

[The State of Ecosystems](#)

[Wetlands loss and impacts on Birds](#)

[America's Oceans in Crisis](#)

[Ecosystem Services](#)

[Bringing Coastal Deadzones](#)

[Beach Closings](#)

### **Ecological Research Program**

Provides information on research conducted by the Ecological Research Program to identify, quantify and assess the goods and services of ecosystems.

[www.epa.gov/ord/esrp/index.htm](http://www.epa.gov/ord/esrp/index.htm)

### **Envirofacts: EPA's Data Warehouse**

National information system providing an integrated single point of access to data extracted from six major EPA databases. Find data about air, water, waste, land, toxics, radiation, facilities, and more..

[www.epa.gov/enviro](http://www.epa.gov/enviro)

### **Environmental Inquiry**

Developed by Cornell University to help students and teachers conduct environmental science research and participate in communities of fellow scientists. Includes topics such as wastewater treatment processes and watersheds.

<http://ei.cornell.edu>

### **Environmental Literacy Council: Teaching Water**

Provides teachers with labs, exercises, and activities for teaching about watersheds, water quality, water conservation, aquatic life, and more.

[www.enviroliteracy.org/category.php/14.html](http://www.enviroliteracy.org/category.php/14.html)

### **EPA Water Environmental Education Resources**

Contains a number of environmental education resources from the Environmental Protection Agency related to water such as marine and coastal ecosystems, wetlands, and watersheds. All resources listed are free of charge and can be either downloaded or available by order online.

[www.epa.gov/Education/watergeneral.html](http://www.epa.gov/Education/watergeneral.html)

### **Electronic Report on the Environment (eROE)**

Presents the best available indicators of national conditions and trends in air, water, land, human health, and ecological systems.

[www.epa.gov/roe](http://www.epa.gov/roe)

### **GreenTreks Television**

An innovative program that brings the watershed community right to your home.

[www.greentreks.org/allprograms/ourwatersheds2/ourwatersheds2.asp](http://www.greentreks.org/allprograms/ourwatersheds2/ourwatersheds2.asp)

### **Journey to Planet Earth**

A PBS educational program that explores the fragile relationship between people and the world we inhabit. Includes videos, teaching guides and internet resource links. Topics include “Rivers of Destiny” and “The State of the Ocean’s Animals.”

[www.pbs.org/journeytoplanetearth](http://www.pbs.org/journeytoplanetearth)

### **National Project WET**

National environmental education organization featuring an online store for educator materials; downloadable activities, and further resources for environmental education. Also available in Spanish.

<http://projectwet.org/water-resources-education>

### **Water Environment Federation Resource Page**

List of links and educational resources about water and water systems.

[www.wef.org/AboutWater/ForEducators/SupplementalResources/WebResources.htm](http://www.wef.org/AboutWater/ForEducators/SupplementalResources/WebResources.htm)

### **U.S. Geological Survey: Water Resources in the United States**

The main portal to USGS Water Resources Program provides links to real-time data for surface and groundwater, and water quality information for all states. Also contains data resources pertaining to regional science investigations, floods, droughts, toxic substances hydrology, water use, recreation, and state, national, and international research initiatives.

<http://water.usgs.gov>

## ***Terrestrial Aquatic Ecosystems***

### **Adopt Your Watershed**

Learn about what groups in your area are doing to protect watersheds, and find out how you can help.

[www.epa.gov/adopt](http://www.epa.gov/adopt)

### **America's Wetlands**

Provides an overview of the rich variety of wetlands, their importance, how they are threatened, and what can be done to conserve them.

[www.epa.gov/owow/wetlands/vital/toc.html](http://www.epa.gov/owow/wetlands/vital/toc.html)

### **Biology Resources Division of the U.S. Geological Survey**

The Biology Resource Division of USGS includes, among other things, descriptions of cooperative project with schools and data bases of info by state. Other topics include ecosystems, invasive species, as well as both terrestrial and aquatic endangered wildlife/resources.

<http://biology.usgs.gov>

### **California Watershed Portal**

Contains information and links related to California Watersheds.

<http://cwp.resources.ca.gov>

### **CERES' Wetlands Information System**

Provides comprehensive wetlands information through a compilation of public and private sector information, including maps, environmental documents, agency roles in wetlands management, restoration and mitigation activities, regulatory permitting, and wetland policies.

<http://ceres.ca.gov/wetlands>

### **National Wetlands Research Center**

Site from the U.S. Geologic Survey exploring the many factors that affect wetland health. Also provides resources for preserving wetlands.

[www.nwrc.usgs.gov](http://www.nwrc.usgs.gov)

### **Nature Net**

Detailed materials about natural resources that the National Park Service maintains including biology, geology, air, and water resources. Water topics include issues related to wetlands, water quality, water rights, and water resources planning/conservation.

[www.nature.nps.gov/water](http://www.nature.nps.gov/water)

### **Surf Your Watershed**

Locate, use, and share environmental information on your watershed or community.

[www.epa.gov/surf](http://www.epa.gov/surf)

### **Stream Corridor Project**

Provides an explanation of the structure of streams, their role in the environment, and stream restoration.

[www.epa.gov/owow/watershed/wacademy/acad2000/stream](http://www.epa.gov/owow/watershed/wacademy/acad2000/stream)

## ***Marine and Coastal Ecosystems***

### **About Estuaries**

Describes the importance of protecting estuaries and includes links to sites on related material.

<http://www.epa.gov/owow/estuaries/index.html>

### **Coral Reef Protection**

This site explores why coral reefs are important and what is being done to protect them.

[www.epa.gov/owow/oceans/coral](http://www.epa.gov/owow/oceans/coral)

### **California Ocean and Coastal Environmental Access Network (Cal OCEAN)**

Web-based virtual library for the discovery of and access to ocean and coastal data and information from a wide variety of sources and in a range of types and formats. Cal OCEAN provides information and tools to support ocean and coastal resource management, planning, research and education via the Internet.

<http://ceres.ca.gov/ocean>

### **National Oceanic and Atmospheric Administration (NOAA) Web Site**

Contains information, activities, and background information, on weather, climate change, and oceans.

[www.noaa.gov](http://www.noaa.gov)

### **NOAA Fisheries Office of Protected Resources**

Learn what this office of the National Oceanic and Atmospheric Administration is doing to protect marine mammals and endangered species.

[www.nmfs.noaa.gov/pr](http://www.nmfs.noaa.gov/pr)

## ***Water (Drinking Water, Wastewater, Groundwater)***

### **Clean Water Act**

The Clean Water Act (CWA) is the cornerstone of surface water quality protection in the United States. This site provides a history of the CWA, a summary of the Act, and links to additional information about the CWA.

[www.epa.gov/regulations/laws/index.html#cwa](http://www.epa.gov/regulations/laws/index.html#cwa)

### **Ecological Footprint Quiz**

The Ecological Footprint Quiz estimates how much productive land and water you need to support what you use and what you discard.

[www.earthday.net/footprint/index.html](http://www.earthday.net/footprint/index.html)

### **Ground Water Primer**

Computer program presenting the basic concepts of ground water, the contaminants that can affect water quality along with the risks they pose, activities that an individual or community can do to help protect and conserve ground water, and programs that are now in place to help protect ground water.

[www.purdue.edu/dp/envirosoft/groundwater/src/title.htm](http://www.purdue.edu/dp/envirosoft/groundwater/src/title.htm)

### **Water on Tap: What You Need to Know**

Where does your drinking water come from? How is it treated? How do you protect it? This is the place to get the answers to these and other drinking water questions.

[www.epa.gov/safewater/wot/index.html](http://www.epa.gov/safewater/wot/index.html)

### **Water Where You Live**

Find all about beaches, streams, rivers, and lakes within your state.

[www.epa.gov/ow/states.html](http://www.epa.gov/ow/states.html)

## ***Water Conservation and Sustainability***

### **Educating Young People about Water**

Provides several guides to establishing and implementing a water education program that meets community needs. Also available in Spanish.

[www.uwex.edu/erc/ey paw/choose.html](http://www.uwex.edu/erc/ey paw/choose.html)

### **EPA Sustainability: Water & Ecosystem Services**

Contains information about policy, programs, research, tools, and technology related to water and ecosystems.

[www.epa.gov/sustainability/water.htm](http://www.epa.gov/sustainability/water.htm)

### **Watershare**

Would you like to learn more about water conservation? Check out this site to find information about water conservation in the city and on the farm.

[www.usbr.gov/mp](http://www.usbr.gov/mp)

### **EPA Sustainable Infrastructure for Water & Wastewater**

Provides information on a number of activities EPA is supporting to improve energy efficiency at water utilities across the country.

[www.epa.gov/waterinfrastructure/bettermanagement\\_energy.html](http://www.epa.gov/waterinfrastructure/bettermanagement_energy.html)