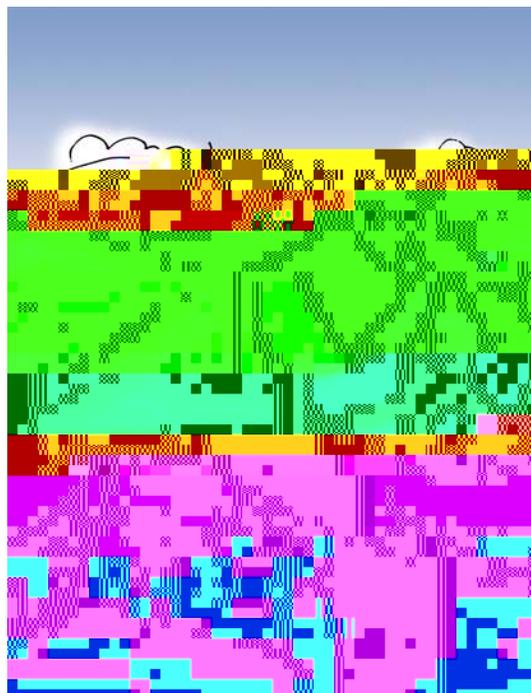




# The Particulate Matter and Ozone Action Plan



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# Why Should We Care About Air Pollution?



Why could you get sick and die from air pollution? On average, each person breathes 3,000 gallons of air each day. You may have a hard time breathing. How often do you know how breathing polluted air can make you sick?

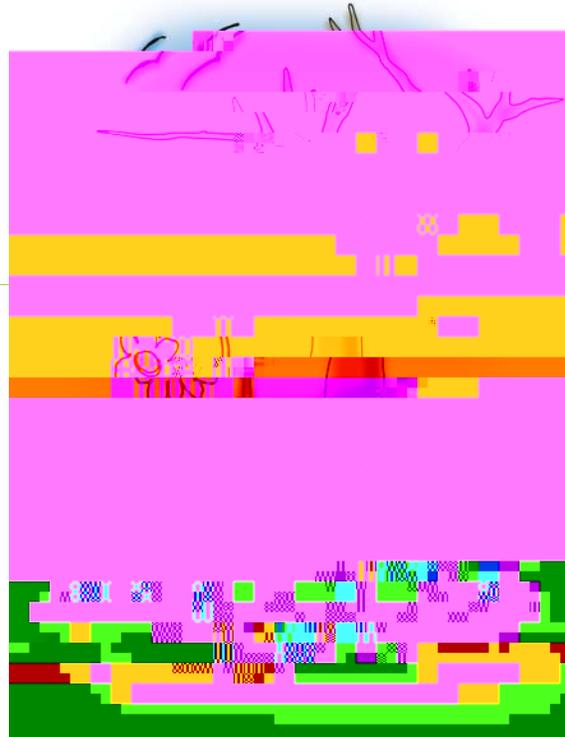
Air pollution can damage trees, forests, lakes, and animals. In addition to damaging the natural environment, air pollution also damage buildings, monuments, and art. In addition, polluted air can cause health problems and diseases, especially in vulnerable populations.

In 1970, Congress created the Environmental Protection Agency (EPA) and passed the Clean Air Act, giving the federal government authority to clean up air pollution in the country. Since then, EPA and state, tribal, local governments, industry, and environmental groups have worked together to reduce the amount of air pollution in the atmosphere.

The Clean Air Act has helped change the way many of us live. In some cases, it has even changed the way we live. This guide provides a brief introduction to the program, history, and policies in the Clean Air Act.

## Air Pollution and Your Health

Breathing polluted air can make you feel sick and even die. It can irritate your eyes and make breathing difficult. In fact, air pollution is like a bad cold and can trigger a variety of health problems, especially for vulnerable populations. Today, nearly 30 million adults and children in the United States have been diagnosed with asthma. Asthma often can



be especially affected by air pollution. Air pollution can also aggravate health problems for the elderly and those with heart disease.

Some toxic chemicals released in the air such as benzene, vinyl chloride are highly toxic and can cause cancer, birth defects, lung disease, and other health problems. And in some cases, breathing these chemicals can even cause death.

Other pollutants make their way into the atmosphere, causing acid rain and global warming. This has led to changes in the environment and dramatic increases in skin cancer and cataracts (eye damage).

## Air Pollution and the Environment

Air pollution is just a health, it also damage the environment. Toxic air pollutants and the chemical have formed acid rain and ground level ozone can damage trees, forests, wildlife, lakes and the bodies of water. These pollutants can also harm fish and the aquatic life.



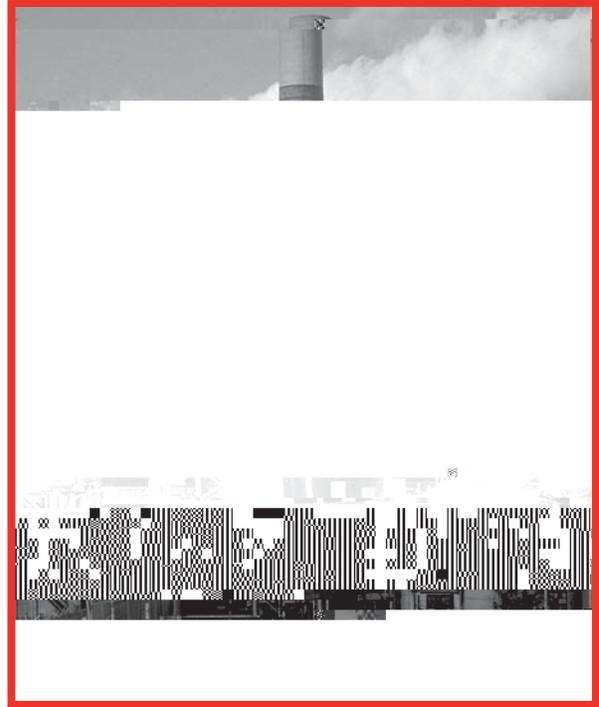
Ian Greaves, M.D., University of Minnesota School of Public Health, Minneapolis, MN

Why should we care about air pollution?



## EPAs Role

Under the Clean Air Act, EPA sets limits on certain air pollutants, including setting limits on how much can be in the air any day in the United States. This helps ensure the basic health and environmental protection for all Americans. The Clean Air Act also gives EPA the authority to limit emissions of air pollutants coming from sources like chemical plants,



# Key Elements of the Clean Air Act



Public health and the environment. To achieve this mission, EPA implements a variety of programs under the Clean Air Act that

include:

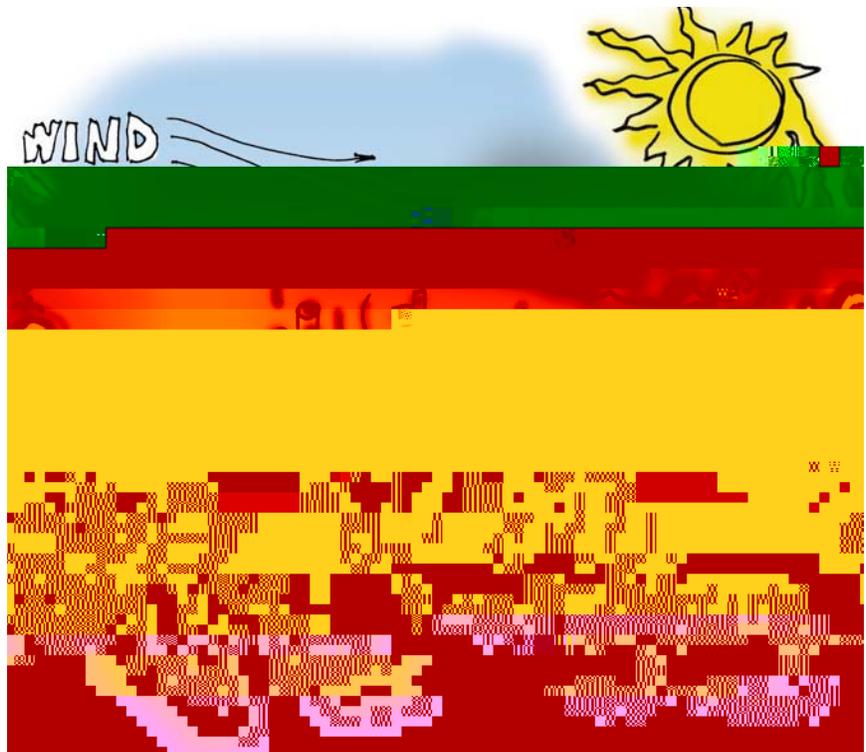
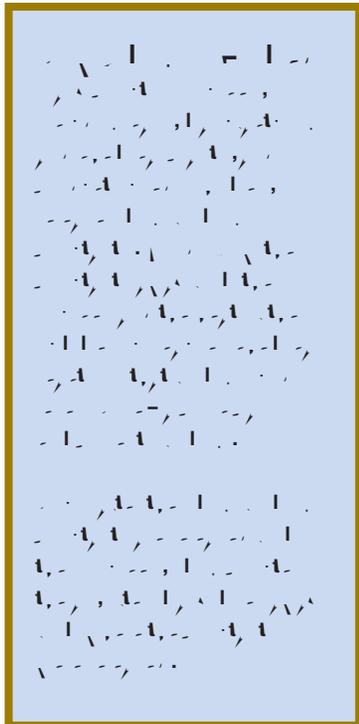
- reducing outdoor ambient concentrations of air pollutants such as ozone, particulate matter, carbon monoxide, nitrogen dioxide, and lead;
- reducing emissions of toxic air pollutants that are known or suspected of causing cancer or other serious health effects; and
- managing disposal and use of chemical hazardous waste.

The act also sets standards for air quality (like chemical pollutants, gases, and soot) and mobile sources (like cars, trucks, and planes).

## Cleaning Up Common Found Air Pollutants

Six common air pollutants (also known as "criteria pollutants") are found all over the United States. They are ozone, carbon monoxide, lead, nitrogen dioxide, sulfur dioxide, and particulate matter. These pollutants can harm your health and the environment, and cause property damage. Of the six pollutants, ozone, carbon monoxide, lead, and sulfur dioxide are the most harmful. They can be reduced by controlling their emissions. For information about the common pollutants, see EPA's website at <http://www.epa.gov/air/>.

EPA calls the six pollutants "criteria" pollutants because they are harmful by degrading human health and/or the environment. Each pollutant has a health-based guideline for setting the maximum allowable level. The level of maximum human health is called the primary standard. An additional level is called the secondary standard and is used to prevent property damage and aesthetic effects. A geographic area that consistently fails to meet the primary standard is called a "non-attainment" area; an area that does not meet the secondary standard is called a "non-attainment" area.





Hair sprays, interior and exterior paints, foam plastic

use, or disposal can contribute to air pollution.



The

They

active health advisories, which can include,

concerning) when exceeded level of ozone  
during the day of measurement.

). VOC

industrial facilities. The then used in air and

The Clean Air Act has set standards for ground-level ozone. It also sets standards for particulate matter. These standards are based on the health effects of these pollutants. The Clean Air Act also sets standards for other pollutants, such as carbon monoxide, lead, and sulfur dioxide.

Weather and the layout of the land (for example, hills and valleys, high mountains, and urban areas) help determine the ground-level ozone and hazardous air pollutant concentrations. When emissions are concentrated in a valley or a dead-end street, the ground-level ozone and hazardous air pollutant concentrations can be higher. Affecting these concentrations is also affected by the weather, the layout of the land, and the way we live.

### How the Clean Air Act Reduces Air Pollution Such as Particle Pollution and Ground level Ozone

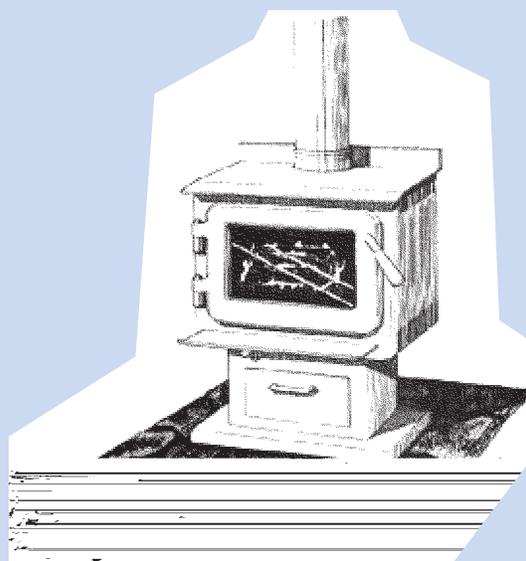
First, EPA took important steps to reduce emissions from power plants and industrial sources. These steps include setting limits on the amount of pollutants that can be emitted. EPA also set standards for new sources of air pollution. These standards are based on the health effects of these pollutants. EPA also set standards for other pollutants, such as carbon monoxide, lead, and sulfur dioxide.

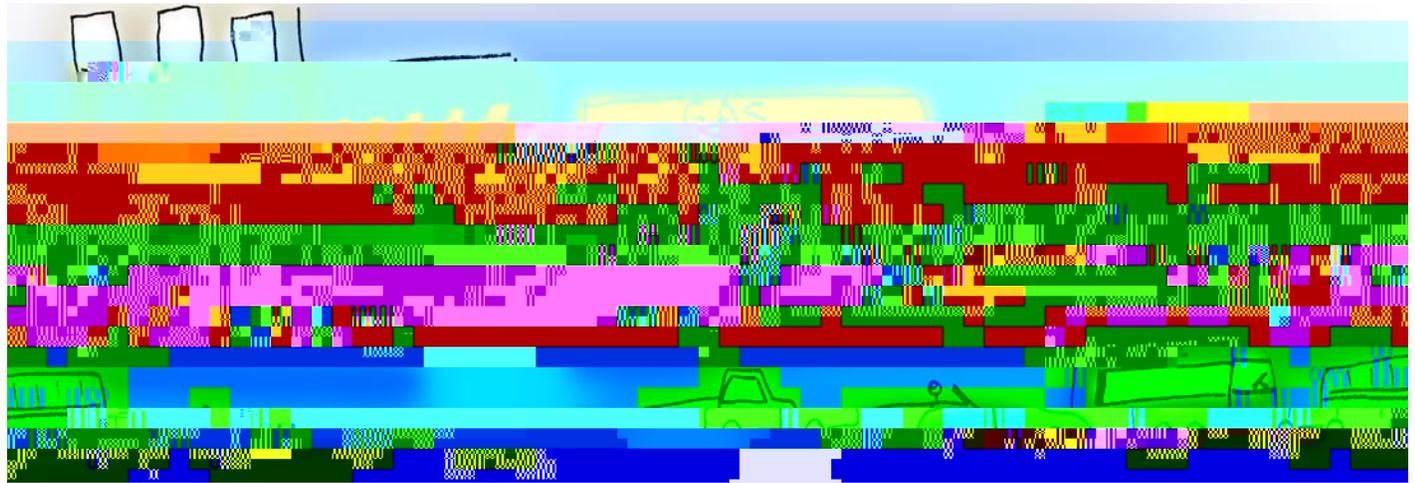
The Clean Air Act also sets standards for ground-level ozone and other pollutants. These standards are based on the health effects of these pollutants. The Clean Air Act also sets standards for other pollutants, such as carbon monoxide, lead, and sulfur dioxide. EPA also set standards for new sources of air pollution. These standards are based on the health effects of these pollutants.

Residential wood smoke (from wood stoves, fireplaces, and outdoor wood-fired hydronic heaters) contributes 6 percent (420,000 tons) of the total amount of fine particle pollution (PM<sub>2.5</sub>) directly emitted in the United States each year. That contribution can be significantly higher in some areas with increased wood burning. EPA and state and local agencies are working on a number of fronts to help reduce residential wood smoke pollution. To learn more, visit [www.epa.gov/woodstoves](http://www.epa.gov/woodstoves).

#### If you use wood:

- replace your old wood stove or fireplace with an EPA-certified model, and get more heat and less pollution while burning less wood;
- burn only clean, dry, "seasoned" wood;
- regularly remove ashes from your wood stove and store outside away from wood.





## Cars, Trucks, Buses, and Nonroad Equipment

Today, motor vehicle and nonroad equipment emit nearly one-half of man-made ground-level ozone and VOC, more than half of the nitrogen oxide (NO<sub>x</sub>) emissions, and about half of the carbon dioxide emissions in the United States. Motor vehicles, including nonroad vehicles, now account for 75 percent of carbon dioxide emissions nationwide.

The total vehicle miles traveled in the United States increased 178 percent between 1970 and 2005 and continues to increase at a rate of about one percent each year. In the United States, there are more than 210 million cars and light-duty trucks on the road. In addition, the types of vehicles have changed greatly since 1970. Beginning in the late 1980s, Americans began driving more vans, utility vehicles (SUV), and pickup trucks as a result. By the year 2000, the average light-duty truck accounted for about half of the new passenger vehicle sales. The average vehicle typically carries more passengers per mile and many of them drive for a longer time more than cars.

The Clean Air Act takes action when it is a health concern by setting limits on the amount of pollutants that can be emitted by new and existing motor vehicles and nonroad equipment. EPA has issued a series of regulations affecting passenger cars, light-duty trucks and buses, and so-called nonroad equipment (recreational vehicles, lawn and garden equipment, etc.) that will dramatically reduce emissions of carbon dioxide from new vehicles and equipment.

## Cleaner Cars

The Clean Air Act required EPA to improve the fuel economy and reduce tailpipe emissions of carbon dioxide, particulate matter, and nitrogen oxides. As a result, emissions from a new car have declined by more than 90 percent since 1970. This includes SUVs and pickup trucks as well. Beginning in 2004, all new passenger vehicles, including SUVs, minivans, vans and pickup trucks, must meet more stringent fuel economy standards. This makes the fuel economy of light-duty trucks, including SUVs, pickups, and minivans a subject of the same national fuel economy standards as cars. As a result of the cleaner vehicle emissions, the national fleet has had a 15 percent reduction in carbon dioxide emissions since 1990.

The reduction in carbon dioxide emissions has also led to a decline in other pollutants, including particulate matter and nitrogen oxides. In addition to the direct emissions benefits, cleaner fuels enable a significant emissions reduction through more efficient combustion. Combustion engines that burn cleaner fuels are emitting less carbon dioxide and other pollutants. EPA anticipates that by 2015, the Clean Air Act will have reduced carbon dioxide emissions from new cars and light-duty trucks by 15 percent.

## Lead and Other Toxic Pollutants

One of EPA's early actions was to eliminate lead from gasoline. Elevated levels of lead can damage organs and the brain and nervous system, and affect the heart and blood. Adverse health effects range from behavioral disorders and anemia to mental retardation and permanent nerve damage. Children are especially vulnerable to lead's toxic effects. The nervous system, which can be damaged in learning deficits and lowered IQ. In the mid-1970s, EPA began to lead phase-out of leaded gasoline. By the summer of 1974, unleaded gasoline was widely available.

available and the company, improving public health and reducing toxic emissions from the manufacturing began in all new vehicles. This effort was followed by even more aggressive action in the leaded gasoline in the 1980s. In 1996, leaded gasoline was finally banned as a result of the Clean Air Act.

Under the Clean Air Act, EPA has also taken action to reduce toxic air emissions from mobile sources. The ethanol and sulfur dioxide emissions from gasoline, vehicles, and even gas stoves.

### Reformulated Gasoline

The Clean Air Act requires certain measures to reduce air pollution and lead levels. Reformulated gasoline has been formulated to reduce air pollution. Other areas, including the District of Columbia and 17 states, have higher lead levels exceeding the public health standard, have implemented their own reformulated gasoline. Reformulated gasoline reduces emissions of toxic air pollutants, such as benzene, a well-known carcinogen.

### Low Sulfur Fuels

Beginning in 2006, refineries have been lowering gasoline sulfur levels much lower than in the past, reducing sulfur levels in gasoline by 90 percent. Sulfur in gasoline inhibits a vehicle's catalytic converter from effectively cleaning the exhaust. The advanced vehicle emission control systems in a range of cars and light trucks are even more sensitive to sulfur, reducing the sulfur content of gasoline will enable these vehicle emission control devices to be effective in reducing pollution. In addition, reducing emissions from new vehicles, lower sulfur fuels will help to reduce emissions from existing engines, such as in the old.

Since 2006, refineries have begun lowering diesel fuel sulfur levels from high sulfur diesel vehicles. A high gasoline vehicle, efficient new emission control on diesel engines is available. Ultra-Low Sulfur Diesel (ULSD) fuel is now available. High sulfur diesel fuel levels are 97 percent cleaner than diesel in 2006. In 2007, refineries began reducing sulfur in diesel fuel to reduce emissions from diesel engines, such as in the old.

Photo - Steve Delaney



EPA has reduced the CO<sub>2</sub> emissions from new and non-road vehicle by more than 90 percent by combining engine emissions and fuel efficiency. Under the Clean Air Act, EPA is also adding new information requirements, including locomotive and marine diesel, recreational vehicle, and lawn and garden equipment. Together, these measures will significantly reduce emissions from the transportation sector.

### Transportation Policies

Congress passed the Clean Air Act Amendments of 1990. In the act, an important objective is the reduction of highway and airline carbon dioxide emissions. In addition, an important objective is to reduce the number of vehicles on the road, to encourage carpooling, to delay the implementation of new vehicle technologies.

The transportation industry has had to examine the long-term implications of the clean air goals. In doing so, the industry has had to manage the change in the air quality and the air quality to achieve the necessary emissions reduction.

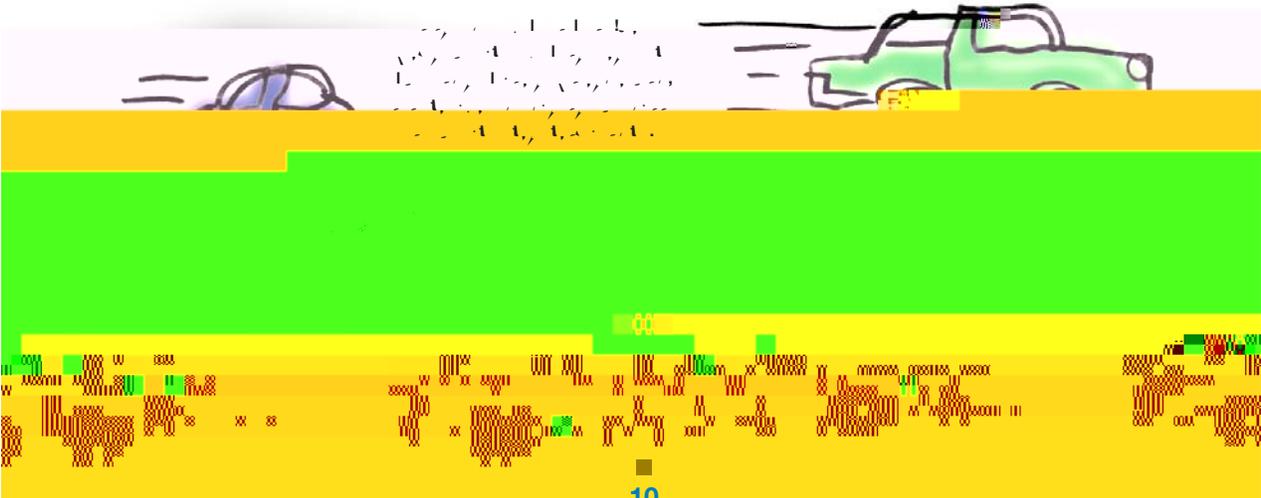
### Inspection and Maintenance Programs

The maintenance of a car, engine and air conditioning is a critical step to reduce air pollution. The Clean Air Act requires that all vehicles be inspected and maintained (I/M) program. The 1990 Act established the emissions testing program. The diagnostic system designed to detect a bad check engine light indicating a failure in the engine malfunction. The maintenance and the check engine light in a timely manner, the Act requires that I/M program include an inspection of the bad diagnostic system.

### Interstate and International Air Pollution

Air pollution is a transboundary issue. Pollution can be carried long distances by the wind. Day after day, in place of the day, like national air quality standards in the United States.

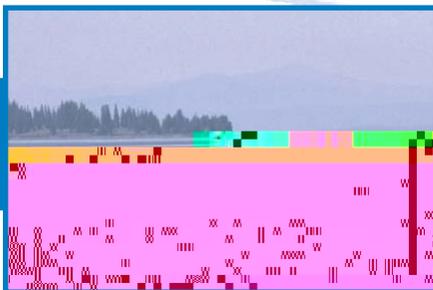
State make a contribution to high air quality and local community by the air quality.



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# Clearing the Air in Our National Parks

## Yellowstone



poor



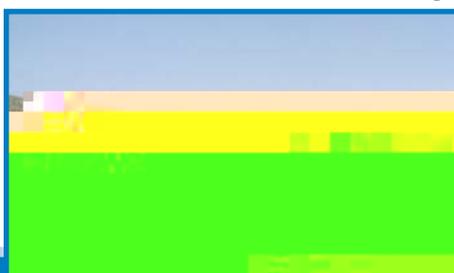
good

## Rocky Mountains



good

## Big Bend



poor



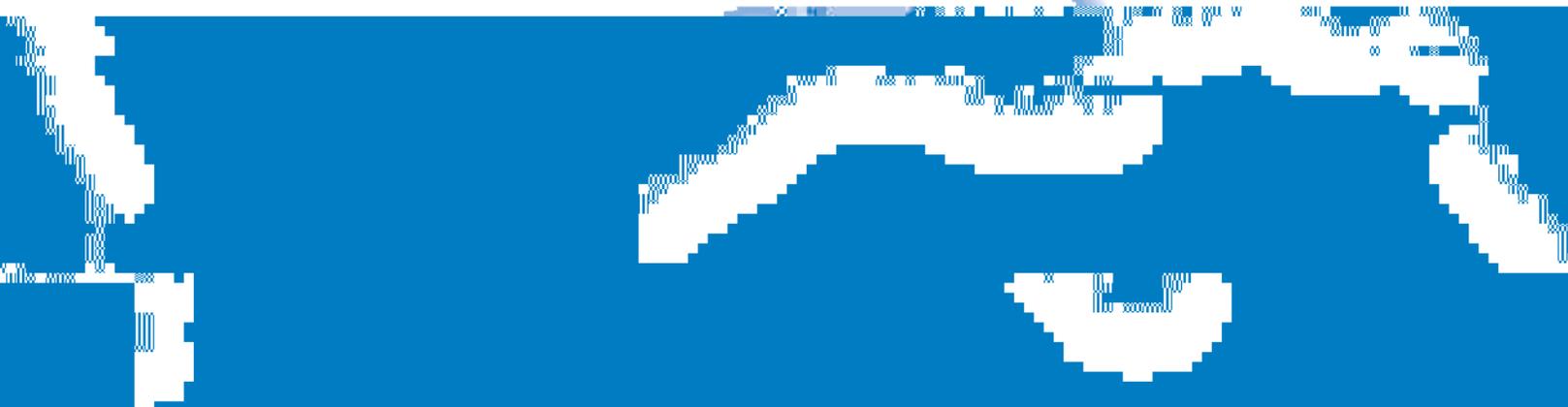
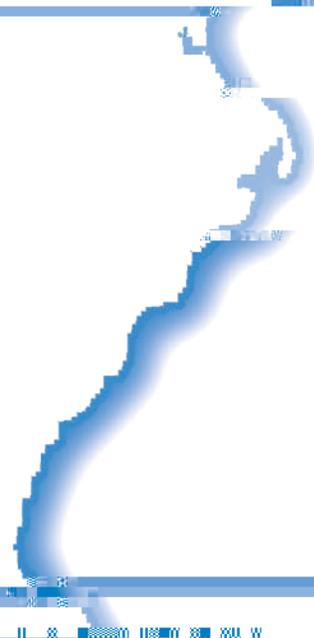
good

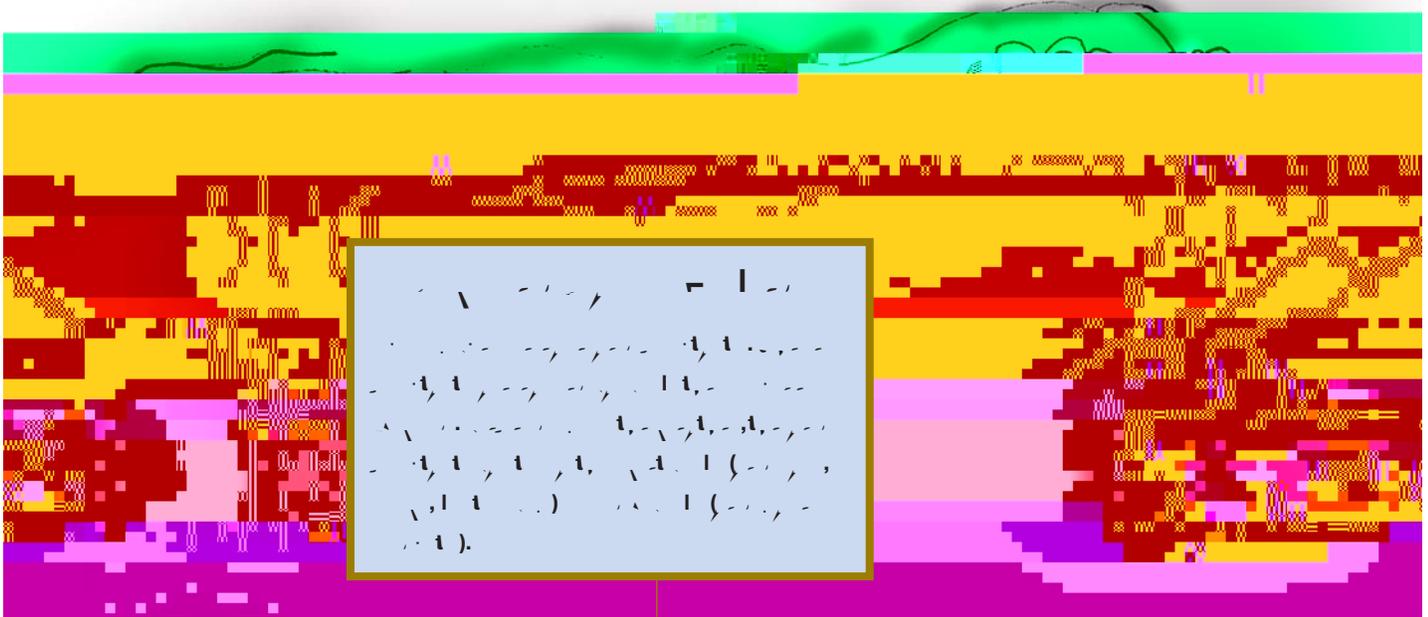
These photos show how good and bad the visibility can be at national parks from coast to coast. You can see real time pictures of visibility at several national parks by visiting the National Park Service Website, [www.nps.gov](http://www.nps.gov). Air resource specialists at national parks rangers who specialize in air pollution present visitor programs, participate in air pollution monitoring and research, and provide information to visitors in areas affected in air quality.



Photos - National Park Service and Colorado State University

## Acadia





Acid rain is a form of precipitation that is acidic due to the presence of sulfuric acid and nitric acid. It is caused by the release of sulfur dioxide and nitrogen oxides into the atmosphere, which then combine with water vapor to form these acids. Acid rain can cause damage to buildings, trees, and aquatic life.

### Reducing Acid Rain

You have probably heard of "acid rain." But you may not have heard of the form of acid precipitation called acid rain, acid fog, mist, or dry form of acidic pollution called acid gas and acid dew. All of these can be formed in the atmosphere and fall to Earth causing human health problems, haze, visibility, environmental problems and property damage. Acid precipitation is reduced hence rain is very effective in cleaning the atmosphere in the air from an acid. The acid then falls to Earth as rain, snow, or fog. Even though the acid is dry, acid rain may fall to Earth in the form of a drizzle.

Sulfur dioxide (SO<sub>2</sub>) and nitrogen oxide (NO<sub>x</sub>) are the principal pollutants that cause acid precipitation. SO<sub>2</sub> and NO<sub>x</sub> emissions released from the air are the main and the chemical form of acid rain fall back to Earth. Power plant burning coal and heavy oil produce

the highest of the annual SO<sub>2</sub> emissions in the United States. The majority of NO<sub>x</sub> (about 50 percent) come from cars, buses, trucks, and the form of acid rain. About 40 percent of NO<sub>x</sub> emissions are from the power plants. The emissions of sulfur dioxide like industrial and commercial buildings.

Heavy rain and melting snow can cause a temporary increase in acidity in lakes and streams, primarily in the eastern United States. The temporary increase may last for days or even weeks, causing harm to fish and the aquatic life.

The acid rain has caused acid rain can damage the human health. High level of SO<sub>2</sub> in the air aggravate a respiratory problem in especially the asthma and can cause breathing difficulties in children and the elderly. In some instances, breathing high level of SO<sub>2</sub> can even damage lung tissue and cause permanent death.

Acid lakes and streams have been found all over the country. For instance, lakes in Acadia National Park on Maine's Mt. Desert Island have become acidic due to pollution from the midwest and the east coast. Streams in Maryland and West Virginia, as well as lakes in the Upper Peninsula of Michigan, have been damaged by acid rain. Since the wind can carry pollutants across the country, the effects of acid rain can be seen far from the original source of the acid-forming pollutant.

Acid rain has damaged trees in the mountains of Vermont and other states. Red spruce trees at high altitudes appear to be especially sensitive to acid rain. The pollutants that cause acid rain can make the air hazy or foggy; this occurs in the eastern United States in areas like the Great Smokies and Shenandoah National Park, areas where vacationers go to enjoy the beautiful scenery and awe-inspiring views. In addition to damaging the natural environment, acid rain can damage manmade objects such as stone statues, buildings, and monuments.

The 1990 change to the Clean Air Act included a nationwide acid deprecating acid rain. The law is designed to reduce acid rain and improve public health by dramatically reducing emissions of sulfur dioxide (SO<sub>2</sub>) and nitrogen dioxide (NO<sub>x</sub>). Using a market-based approach, the program allows companies to trade allowances for SO<sub>2</sub> that may be emitted by electric power plants nationwide. As of 2005, emissions reductions were more than 7 million tons from power plants, a 41 percent below 1980 level.

The initial phase of EPA's Acid Rain Program was in effect in 1995. The law established the highest emissions limits for 110 power plants in 21 Midwestern, Appalachian, and Northeastern area electric utility emissions of SO<sub>2</sub>. The second phase of the program was in effect in 2000, further reducing SO<sub>2</sub> emissions from big coal burning power plants. Some smaller plants were also included in the second phase of the program. Total SO<sub>2</sub> emissions have nationwide power plant allowances limited to the level set by the 1990 Clean Air Act, about 50 percent of the level emitted in 1980.

Each allowance is a share of SO<sub>2</sub> emissions allowed from the plant, market. Plants may only emit the amount of SO<sub>2</sub> equal to the allowance they have been limited to the level 9 2 T 11\_0 1 lll anli /MCID 5 Be6ic6a7 the amount of SO



EPA has published regulations regarding a wide range of industrial categories, including chemical plants, incinerators, dry cleaners, and manufacturers of finished products. Hazardous air pollutants from industrial sources, such as chemical plants, petroleum refineries, and steel mills, have been reduced by nearly 70 percent. The regulations mostly apply to large, so-called "major" sources and also to some smaller sources known as "area" sources. In many cases, EPA does not receive a specific technological standard, but the effectiveness level based on a technological standard is achieved by the best available and latest emitting source in an industry. EPA's development of regulations has given companies much flexibility and is able in deciding how they reduce hazardous air emissions along a health and environmental level established in the regulations.

The 1990 Clean Air Act gave EPA the authority to regulate air quality based on performance based standards for hazardous air pollutants from industrial sources. After EPA evaluates the technological based regulations, the Act gave EPA the authority to set any remaining ("residual") risks, and decide whether it is necessary to control the source further. The assessment of remaining risks is initiated in the year 2000 for some of the industries covered by the technological based standards.

The 1984 chemical disaster that resulted in thousands of deaths in Bhopal, India, inspired sections of the 1990 Clean Air Act that require factories and other businesses to develop plans to prevent accidental releases of highly toxic chemicals.

The 1990 Act also established the Chemical Safety Board, an independent agency that investigates and reports on accidental releases of toxic chemicals from industrial facilities. The Board operates much like the National Transportation Safety Board, the agency that investigates airplane and train crashes. The Chemical Safety Board assembles the information necessary to determine how and why an accident involving toxic chemicals happened. The goal is to apply understanding of accidents to prevent other accidents involving toxic chemicals.

## Air Toxics and Risk

The Clean Air Act sets a number of diesel-related EPA best practices to reduce human health and environmental impacts. These diesel-related information, planning and national and local efforts address risks through legislation, enforcement and the Clean Air Act. Among the risks addressed are:

- The Integrated Urban Air Toxic Strategy, includes local and community-based initiatives to reduce local toxic air emissions. The primary goal of the strategy is to reduce public health risks from both indoor and outdoor sources of toxic air pollutants. More information can be found at [www.epa.gov/ua](http://www.epa.gov/ua).
- The Great Waters Program includes a series of initiatives to improve and protect the health of toxic air pollutants in the "Great Waters," which include the Chesapeake Bay, Lake Champlain, the Great Lakes, National Estuary Program areas, and National Estuarine Research Reserves. To learn more, visit [www.epa.gov/gw](http://www.epa.gov/gw).
- Initiatives to reduce emissions of eleven bioaccumulative toxic (PBT) like mercury, DDT (a pesticide banned in the United States), and dioxin.

## Protecting the Stratospheric

### Ozone Layer

Ozone can be good or bad depending on where it is located. Close to the Earth's surface, ground level ozone is a harmful pollutant. Ozone in the stratosphere, high above the Earth, protects human health and environmental health from harmful ultraviolet radiation. This natural shield has been gradually depleted by manmade chemicals. Since 1990, Congress added provisions to the Clean Air Act for protecting the stratospheric ozone layer.

Ozone in the stratosphere, a layer of the atmosphere located 10-30 miles above the Earth, is a natural shield, protecting people and environmental health from the harmful ultraviolet radiation. The stratospheric ozone layer filters harmful rays, including a type of ultraviolet called ultraviolet B. Excessive ultraviolet B (UVB) has been linked to skin cancer (eye damage) and skin cancer. Scientists have also linked increased UVB exposure to cataracts and damage to ocean life.

In the mid 1970s, science became concerned that chlorofluorocarbons (CFC) could deplete the ozone. At the time, CFCs were widely used as a propellant in consumer products such as hair spray and deodorant, and as a coolant in refrigerators and air conditioning. In 1978, the U.S. government banned CFC as a propellant in most aerosols.

Scientists have been monitoring the ozone layer since the 1970s. In the 1980s, scientists began accumulating evidence that the ozone layer was being depleted. The ozone hole in the region of the South Pole, which has appeared each year during the Antarctic winter (summer), is the biggest than the continental United States. Between 1978 and 1997, scientists have measured a 50 percent decrease in the ozone a significant amount.

Over the 1990s, including the major industrialized nations such as the United States, have signed the 1987 Montreal Protocol, which calls for elimination of chemical that deplete the ozone. Countries have signed the Protocol and committed to limiting the production and use of these chemical.

The 1990 Clean Air Act required EPA to set a program for limiting production and use of ozone depleting chemical. In 1996, U.S. production ended for many of the chemical capable of depleting the ozone. Many have replaced CFC, halon, and methyl chloroform.

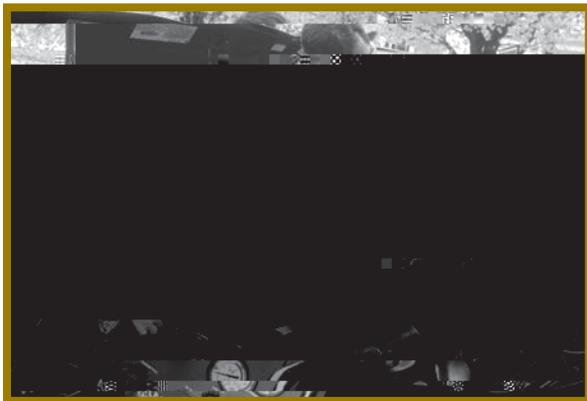
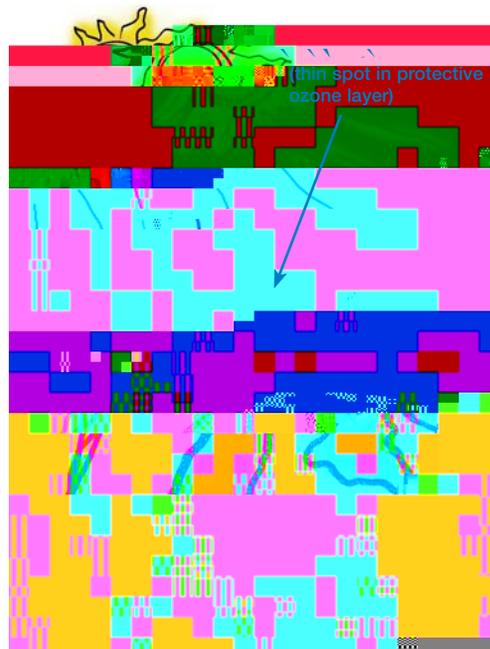
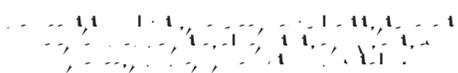


Photo - Steve Delaney

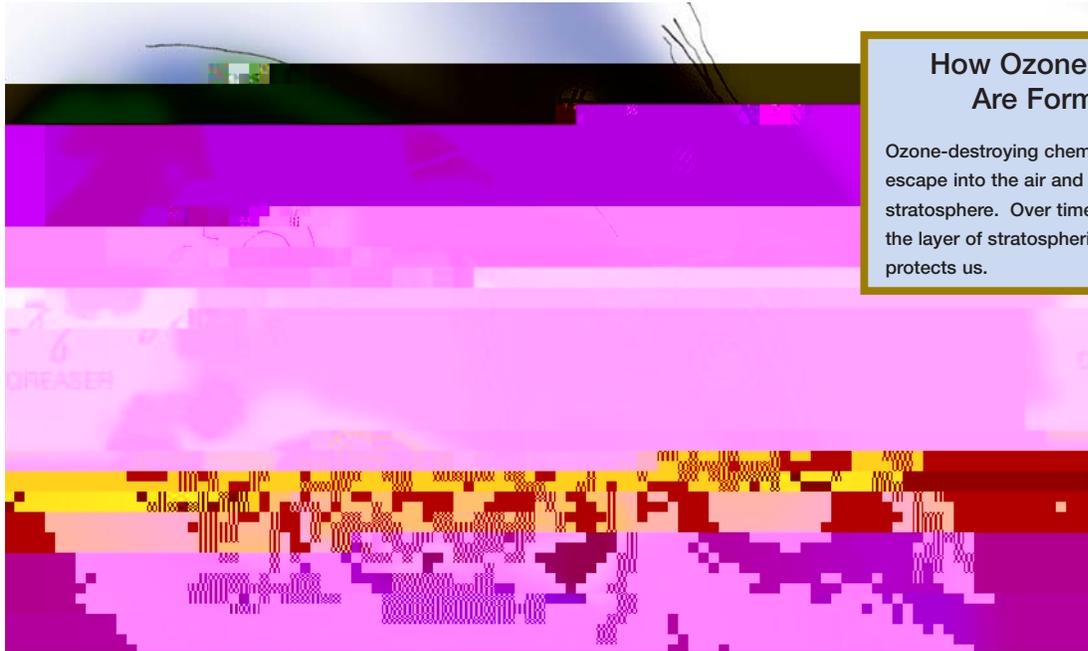


When the protective ozone layer is damaged, there is an increase in harmful rays from the sun reaching the Earth. These rays can harm both health and the environment.

Unfortunately, it will be about 60 years before the ozone layer heals. Because of the ozone depleting chemical already in the atmosphere and how long it will take to disappear, the ozone layer depletion will likely continue throughout the decade. September 24, 2006, recorded the largest ozone hole on record at 29 million square kilometers (11.4 million square miles). The year 2006 also had the second largest ozone hole.

The Clean Air Act includes the reduction of the ozone layer. The Act encourages the development of "ozone friendly" substitutes for ozone depleting chemical. Many products and processes have been reformulated to become "ozone friendly." Financial incentives encourage the use of CFC.

Some time in the near future, there will be an ozone depleting chemical. Financially, substitutes have not been found for CFC used in certain medical applications. The limitation on the production of methyl bromide, a pesticide, was ended because farmers did not yet have an effective alternative. Despite the inevitable delay because of technical and economic concerns, ozone depleting chemical are being phased out, and, it is hoped that, some time the depletion of the ozone layer will be repaired.



## How Ozone Holes Are Formed

Ozone-destroying chemicals escape into the air and reach the stratosphere. Over time they reduce the layer of stratospheric ozone that protects us.



# How the Clean Air Act Works



The Clean Air Act can help all of us breathe cleaner air. Over time, the Clean Air Act will continue to reduce air pollution, but it will take time for some of the Act's provisions to have their full impact.

In general, the EPA's national and regional ground-level ozone standards will be reached by 2015. For instance, the large industrial facilities are required in all states to reduce emissions, especially those that hold down the ozone in the atmosphere. On the other hand, in the case of cars and trucks, it may take several years for the full effect of cleaning cars and trucks to be seen.

You can also check on how individual facilities are meeting their clean air requirements. Air and other individual facilities check a website online in the facility's permit, which can be found. This document provides information on a national, regional, and local air pollution agency that can give you more information on how to get access



## A, P

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### At Home

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- [gov/woodstoves](http://gov/woodstoves).

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- Connect your outdoor lights to a timer or use solar lighting.

# State and Tribal Contact Information

For more information on state and tribal air quality information agencies, visit [www.epa.gov](http://www.epa.gov).

For more information on tribal air quality information agencies, visit [www.epa.gov/tribal](http://www.epa.gov/tribal) or [www.epa.gov/tribal](http://www.epa.gov/tribal).

## EPA Regional Office

### Region 1

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1 Congress Street, Suite 1100  
Boston, MA 02114-2023  
Phone: 888-372-7341 (Inside Region I)  
Phone: 617-918-1111 (Outside Region II)  
Web Site: [www.epa.gov/region1](http://www.epa.gov/region1)

### Region 2

(New Jersey, New York, Puerto Rico, Virgin Islands)  
290 Broadway, 26th Floor  
New York, NY 10007-1866  
Phone: 212-637-3000  
Web Site: [www.epa.gov/region2](http://www.epa.gov/region2)

### Region 3

(Delaware, Maryland, Pennsylvania, Virginia, West Virginia, District of Columbia)  
1650 Arch Street  
Philadelphia, PA 19103-2029  
Phone: 800-438-2474 (Inside Region 3)  
Phone: 215-814-2100 (Outside Region 3)  
Web Site: [www.epa.gov/region3](http://www.epa.gov/region3)

### Region 4

(Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee)  
Atlanta Federal Center  
61 Forsyth Street, SW  
Atlanta, GA 30303-3104  
Phone: 404-562-9900  
Phone: 1-800-241-1754 (Toll-free)  
Web Site: [www.epa.gov/region4](http://www.epa.gov/region4)

### Region 5

(Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin)  
77 W. Jackson Boulevard  
Chicago, IL 60604  
Phone: 800-621-8431 (Inside Region 5)  
Phone: 312-353-2000 (Outside Region 5)  
Web Site: [www.epa.gov/region5](http://www.epa.gov/region5)

### Region 6

(Arkansas, Louisiana, New Mexico, Oklahoma, Texas)  
1445 Ross Avenue, 7th Floor, Suite 1200  
Dallas, TX 75202-2733  
Phone: 214-665-6444  
Web Site: [www.epa.gov/region6](http://www.epa.gov/region6)

### Region 7

(Iowa, Kansas, Missouri, Nebraska)  
901 N 5th Street  
Kansas City, KS 66101  
Phone: 800-223-0425 (Toll free)  
Phone: 913-551-7003  
Web Site: [www.epa.gov/region7](http://www.epa.gov/region7)

### Region 8

(Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming)  
999 18th Street, Suite 300  
Denver, CO 80202-2466  
Phone: 800-227-8917 (Inside Region 8)  
Phone: 303-312-6312 (Outside Region 8)  
Web Site: [www.epa.gov/region8](http://www.epa.gov/region8)

### Region 9

(Arizona, California, Hawaii, Nevada, and Pacific Islands, Tribal Nations subject to U.S. law)  
75 Hawthorne Street  
San Francisco, CA 94105  
Phone: 415-744-1500  
Web Site: [www.epa.gov/region9](http://www.epa.gov/region9)

### Region 10

(Alaska, Idaho, Oregon, Washington)  
1200 6th Avenue  
Seattle, WA 98101  
Phone: 206-553-1200  
Web Site: [www.epa.gov/region10](http://www.epa.gov/region10)

