






## TREES


 Cities without trees are "heat islands." 100 million additional mature trees in U.S. cities would save \$4 billion per year in energy costs.

 A windbreaker can lower home heating bills up to 30%


 Trees remove air pollution by lowering air temperature, through respiration, and by retaining particulates.


 Trees can improve the property value of your home by 15% or more.


 In less than 100 years over half of the forest has now been cut and burned, leaving whole areas of the earth bare and unprotected, rendering entire regions lifeless.


 Four days of global military spending, which is estimated to run about \$8 billion, could finance a five-year action plan to protect the world's tropical rain forest.



 Every year we dispose of 204 million tons of leaves and grass clippings, which could be composted to conserve landfills.


 Every year 900,000,000 trees are cut down to provide raw materials for American paper and pulp mills.


 Trees support many generations of birds and other wildlife and improve community pride.

 Shade trees planted east and west of your home can cut cooling cost 15% to 35%.


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## WATER


 An acre of water equals about 326,000 gallons, or enough water to cover an acre of land about the size of a football field.


 The water from your aquarium can be particularly good for watering plants; it's rich in nitrogen and phosphorus.




 **The earth's water consists of:**  
92% Salt Water  
2.8% Fresh Water  
0.6% Ground Water  
0.01% Lakes & Streams  
2.2% Glaciers & Ice Caps  
0.001% Water Vapor

 Water is the most common substance on earth covering 70% of the earth's surface.


 The United States uses 100 billion gallons of water for irrigation of crops per day.


 Humans take in over 16,000 gallons of water during their lifetimes, with an average of 2.5 quarts per day.


 Today 40% of our waters are still too polluted for fishing and swimming.


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## AIR POLLUTION & AUTOMOBILES

 Each Gallon of gas burned releases 2.2 pounds of carbon dioxide into the atmosphere. In a year, the average car emits five tons of carbon dioxide into the air.

 There are 120 million automobiles in the United States in use daily and they account for 33% of all carbon dioxide and 45% of all nitrous oxide released into the sky, making the car the largest contributor to global warming.


 Automobiles are responsible for 60% of the total air pollution in most U.S. cities. Cars emit 69% of all lead, 70% of the carbon monoxide and are responsible for 60% of the ground ozone.


 Half of all automobile trips in the United States are under 3 miles, a distance that could be walked in less than 1 hour which is cheaper and better on the environment.


 Air pollution costs the U.S. as much as \$40 billion annually in health care cost and lost economic productivity based on Worldwatch state of the World Report.


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## POLLUTION


 Americans use approximately 2.2 billion pounds of pesticides every year. Research shows that target pests will eventually develop resistance to these pesticides anyways.

 The cost of one nuclear weapon alone could finance the installment of eighty thousand and pumps, giving third world villages access to clean their environment.

 Mowing the lawn with a gas mower produces as much pollution in half an hour as driving a car 172 miles.


 More than 100 active pesticides ingredients are suspected of causing cancer, birth defects, and genemutation.


 An estimated cost to clean up the 24,000 nuclear facilities range from \$100 billion to \$400 billion.


 Everyone has some amount of dioxin in their body, and the average level is already high enough to endanger health.


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## OUR WASTE


 95% of our solid waste is disposed of in landfills and one out of every two of those landfills desperately needs repair so that it won't leak.


 Every Sunday, more than 500,000 trees are used to produce the 88% of newspapers that are never recycled.


 North Americans throw away 2.5 million plastic bottles every hour.


 Recycling one aluminum can a day saves the amount of energy equivalent to half that can filled with gasoline.

 Every year 45,000 tons of plastic waste are dumped into the world's ocean. One of the results of this is that up to 1 million sea birds and 100 thousand marine mammals are killed each year by plastic trash such as fishing gear, six pack yokes, sandwich bags, and disposable products of polystyrene foam.

 The U.S. generates approximately 208 million tons of municipal solid waste a year. That's 4.2 lbs. per person per day.

 The average college student produces 640 pounds of solid waste each year, including 500 disposable cups and 320 pounds of paper.


 Packaging accounts for 50 % of all paper produced in North America, 90% of all glass, and eleven percent of aluminum.


 About 130 million tons of MSW ends up in fills.


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## TOXINS

 South Africa produces approximately 350,000 tons of toxic waste annually.

 The institute of Waste Management is researching the possibility of carrying out environmental audits of toxic waste dumps. An environmental audit is an analysis of any human activity to assess its environmental consequences.


 Carbon monoxide reduces the ability of blood to deliver oxygen to vital tissues, affecting primarily the cardiovascular and nervous systems.


 A growing lists of pesticides have the potential to disrupt the immune and endocrine systems and causing long term impacts on the offspring of exposed humans and animals.


 73 different kinds of pesticides have been found in groundwater, which is potential drinking water.

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## ENERGY

 Space heating is the largest gas expense in most homes, accounting for around half of your annual gas usage. Reducing your energy use for heating, provides you with the single most effect way to reduce your gas bill.

 Switching to a natural gas furnace from an electric one can save up to 70% each year on your home heating cost.

 Most central forced-air heaters have a filter that cleans the air before circulating heated air throughout the house. A clogged filter can reduce your heater's efficiency and its ability to circulate heat.

 Check your furnace filter every month by holding it up to a light. If the filter is clogged, light will not pass through it. A clogged filter should be cleaned or replaced.

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## DID YOU KNOW?

1997 was the warmest year on record. Global warming is now happening faster than at any time in the last 10,000 years, and the 10 warmest years on record have been experienced during the last two decades.

Scientists agree the most likely cause is pollution of the Earth's atmosphere with greenhouse gases such as carbon dioxide from the burning of coal, oil, and gas to produce energy and fuel automobiles.

Human activities are causing some greenhouse gases, such as carbon dioxide. Whenever we burn fossil fuels, more carbon dioxide is emitted to the atmosphere. Forest destruction and agriculture also release greenhouse gases.

The pacific ocean west of California has warmed by 1.5 degrees Celsius, which has triggered declines of zoo plankton and the disappearance of an estimated 4 million sea birds.

We still have 70% of the forest that were here in 1600-737 million acres of the forest in the US.

Every year, each person in the U.S. uses paper, lumber and other wood equivalent to one tree, 100 feet tall and 16 inches in diameter.

Over 90% of drinking water is used for lawn and garden watering, washing machines and it flows down the toilets and drains.