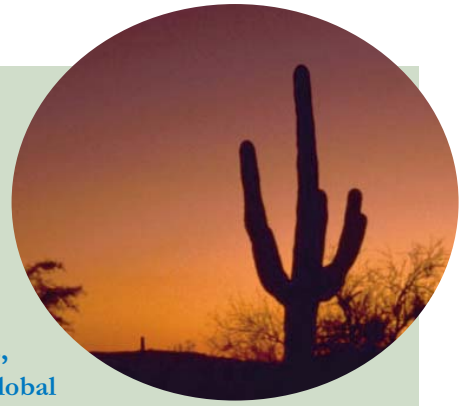




CHANGE THE FORECAST FOR WILDLIFE
SOLUTIONS TO GLOBAL WARMING

Global Warming and ARIZONA

The Intergovernmental Panel on Climate Change estimates average temperatures in Arizona could rise about 6.75 degrees Fahrenheit by 2100 if global warming continues unabated. The warmer climate is expected to cause more extreme fluctuations in precipitation levels across the region, contributing to heavier rainfall and flooding events in winter as well as more severe drought conditions and wildfires in summer. Global warming could also bring less snowpack in the mountains, reducing summer flows in many Arizona streams. We can solve global warming and revitalize our economy by rebuilding America with clean energy.



Global warming effects on Arizona wildlife

Arizona is home to an incredible diversity of native wildlife species, including 435 birds, 138 mammals, 28 fish, 102 reptiles and 25 amphibians. Rising temperatures in the state will likely change the makeup of entire ecosystems, forcing wildlife to shift their ranges or adapt.

- Higher average stream temperatures and declines in riparian vegetation due to global warming could contribute to a significant reduction in viable habitat for many of Arizona's already-threatened fish species, including native Apache trout.
- Scientists have found Mexican jays are breeding and laying eggs 10 days earlier than they did in 1971 due to warmer temperatures.
- The endangered southwestern willow flycatcher, which breeds in dense riparian areas along rivers and wetlands, has seen its numbers plummet during the last 100 years due to many factors leading to the loss of these fragile habitats. Global warming is

projected to contribute to hotter, drier conditions in the region, which could cause the species to disappear.

- Logging and other destructive activities have already pushed the habitat of the Mount Graham red squirrel to higher elevations. Its remaining forest habitat faces an additional threat from global warming. Higher average temperatures have contributed to more severe outbreaks of spruce bark beetles throughout the region, making forests such as those on Mount Graham more susceptible to fires.



Global Warming Pollution

Burning coal, gas and oil produces carbon dioxide, which is a greenhouse gas that warms the planet as it builds up in the atmosphere. Some of the carbon dioxide released today remains in the atmosphere after even 100 years, trapping more and more heat.

Since the mid-1800s, emissions of carbon dioxide have skyrocketed, causing global temperatures to rise by about 1° Fahrenheit in the last century. Earth has not experienced such a rapid change in temperature in thousands of years.

A Global Solution

The U.S. must lead the world by passing global warming legislation at home and working with other nations at the Copenhagen climate summit at the end of 2009 to sign a new climate treaty that keeps further warming below 2° Fahrenheit. With a global solution, we can avoid the worst impacts of global warming.



What's at stake for Arizonians?

The recent drought and intense wildfire seasons in Arizona are consistent with what climate scientists expect will occur more and more as global warming continues. These destructive weather events are just one way the warmer climate will touch the lives of Arizonians, as global warming resonates through the tourism, agriculture, wildlife recreation and timber industries.

- Arizona currently is experiencing a decade-long drought that has shown no signs of stopping and has already depleted water reservoirs. A longer drying trend could lead to severe water shortages for the state.
- Global warming's effect on crop production could include a 70-percent reduction in wheat yields and 11-percent reduction in cotton yields as temperatures rise beyond the tolerance level of the crops. To compensate, farmers would have to increase the number of farmed acres requiring irrigation, further stressing the water supply.
- Loss of wildlife and habitat could mean a loss of tourism dollars. In 2006, nearly 1.9 million people spent more than \$2.2 billion on hunting, fishing and wildlife viewing in Arizona. This in turn created 39,193 jobs in the state. *(Jobs are an average from 2001 and 2006 data.)*

“Global warming poses an overriding challenge to our responsibility to protect wildlife for our children's future. We must advance balanced solutions that work for people, wildlife and the economy to overcome this challenge.”—

Larry Schweiger
President, CEO
National Wildlife Federation

GLOBAL WARMING NATIONAL POLICY SOLUTION:

A federal legislative solution can drive American ingenuity, create millions of green jobs, and restore America's global leadership on global warming. Legislation should:

- * Include ambitious targets to reduce America's global warming pollution as swiftly and deeply as possible. Scientists say that developed countries as a whole need to reduce their global warming pollution by at least 80% from 1990 levels by 2050 to avoid the worst impacts of global warming.
- * Move America toward a 100% clean electricity future by maximizing energy efficiency, modernizing the electric power grid, expanding power generation from renewable energy resources, and investing in clean transportation infrastructure.
- * Invest in natural resources. Forests, coasts, wetlands, clean air and clean water are already being impacted by global warming. Funding is needed to safeguard the natural resources that are critical to wildlife populations and human health.
- * Lead a worldwide effort to finance clean energy technology, forest conservation, and adaptation to unavoidable impacts of global warming.

For more information, visit: www.nwf.org/globalwarming.



Arizona Public Service (NREL)

Arizona's solutions to global warming

Arizona has the potential to be a leader on developing solutions to global warming.

- The state's solar energy credit provides individuals and commercial businesses with tax credits for installing solar panels.
- Arizona leads the nation in solar power generation potential and could additionally meet more than 16 percent of its electricity needs from other renewable sources including wind, geothermal and biomass.

The Western Climate Initiative

The Western Climate Initiative is a collaboration between Arizona, California, New Mexico, Oregon, Washington, Utah, Montana, British Columbia and Manitoba to develop regional strategies to address climate change. WCI is identifying, evaluating and implementing collective and cooperative ways to reduce greenhouse gases in the region. The partners set an overall regional goal to reduce greenhouse gas emissions 15% below 2005 levels by 2020. By August 2008 the Partners will also complete the design of a market-based mechanism to help achieve that reduction goal.

Following some simple guidelines, you can cut your global warming pollution, become more energy efficient and give something back to nature.

- **Convert to compact fluorescent bulbs:** If every household in America replaced its next burned out light bulb with a compact fluorescent, we would prevent more than 13 billion pounds of carbon dioxide from being emitted.
- **Become a Green Tag subscriber:** Many states now offer options for homeowners to buy electricity from clean, renewable sources such as wind, solar and biomass that produce little or no global warming pollution. Green energy can also be purchased through the National Wildlife Federation by visiting

www.nwf.org/energy.



For more information, contact:
Dave Dittloff at 303-786-8001 or
DittloffD@nwf.org