

# Summary of the Science Supporting EPA's Finding That Greenhouse Gases Threaten Public Health and Welfare



For a full discussion of the rationale for EPA's proposed findings, please see the Proposal describing the findings as well the underlying Technical Support Document for a comprehensive synthesis of the science at: [www.epa.gov/climatechange/ endangerment.html](http://www.epa.gov/climatechange/ endangerment.html). All of the points in this fact sheet come from the published scientific literature, particularly from the assessments of the U.S. Climate Change Science Program, the National Research Council, and the Intergovernmental Panel on Climate Change.

## Key Points About Climate Change:

- Heat-trapping greenhouse gases are now at record-high levels in the atmosphere compared to the recent and distant past. **TRUE for RECENT history but no data for distant past therefore a LIE also. while CO2 has risen, average temperatures falling, google "heliosphere of the sun"**
- These high atmospheric levels are the clear result of human emissions of carbon dioxide and other greenhouse gases. **LIE- unproven, only political claims or from an opinion, no credible data to support this**
- Warming of the climate system is now well documented, as is evident from increases in global average air and ocean temperatures, widespread melting of snow and ice, and rising global average sea level. Eight of the 10 warmest years on record have occurred since 2001. **LIE- average temperatures have fallen since 1998, warmest period after data "corrected" in the 1930's**
- The buildup of greenhouse gases in the atmosphere is **very likely** the cause of the observed increase in average temperatures and other climatic changes. Most of the warming cannot be explained by natural variability such as variations in solar activity. **LIE- solar flares, weakening heliosphere, magnetic poles all have correlation to changes in the climate**
- Future warming over the course of the 21st century, even when assuming emissions growth will be low, is very likely to be greater than observed warming over the past century. **LIE- computer models being used are flawed and have never simulated much less predicted climate activity**
- The effects of climate change observed to date and/or projected to occur in the future include, but are not limited to: more frequent and intense heat waves, more wildfires, degraded air quality, more heavy downpours and flooding, increased drought, greater sea level rise, more intense storms, harm to water resources, harm to agriculture, and harm to wildlife and ecosystems. **LIE-unproved even with historical data, this is cited from the IPCC political declaration**
- The changes to our climate may increase the likelihood of extreme and high-impact events such as more intense hurricanes. **LIE- there is no evidence supporting number of or strenght of hurricanes related to CO2 or warming**

## Health Effects Associated With Elevated Greenhouse Gas Concentrations in the United States

### Temperature Effects:

- There is evidence that extremely hot days are already increasing. Severe heat waves are projected to intensify, which can increase heat-related mortality and sickness. A possible benefit of moderate temperature increases includes fewer deaths from exposure to extreme cold. **This is yet another bold faced lie- no account for urbanization of temperature recording and the average temperature has been declining since 1998**

### Air Quality Changes:

- Climate change is expected to worsen regional ozone pollution, with associated risks in respiratory infection, aggravation of asthma, and premature death. The impact on particulate matter remains less certain. **once again, no credible science and they are predicting the future**

## Extreme Events:

- Storm impacts are likely to be more severe, especially along the Gulf and Atlantic coasts. Heavy rainfall events are expected to increase, increasing the risk of flooding, greater runoff and erosion, and thus the potential for adverse water quality effects. These projected trends can increase the number of people at risk from suffering disease and injury due to floods, storms, droughts and fires.

## Climate-Sensitive Diseases:

- Potential ranges of certain diseases affected by temperature and precipitation changes, including tick-borne diseases, are expected to increase.

## Welfare Effects Associated With Elevated Greenhouse Gas Concentrations in the United States

*Under the Clean Air Act, "welfare" includes impacts such as effects on soils, water, crops, vegetation, man-made materials, animals, wildlife, weather, visibility, and climate; damage to and deterioration of property and hazards to transportation; as well as effects on economic values and on personal comfort and well-being.*

- The global sea level gradually rose in the 20th century and is currently rising at an increased rate, exacerbating storm-surge flooding and shoreline erosion.  
**LIE- the rise of 3mm is well below the margin for error on of the measuring devices**
- Rising temperatures will diminish snowpack in the Western U.S., affecting seasonal availability of water.  
**another lie; ignoring water tables, natural rain caused by the heating of the water which make clouds**
- Climate change will likely further constrain already over-allocated water resources in some areas of the U.S., increasing competition among agricultural, municipal, industrial, and ecological uses.  
**a half truth, but water has always been an issue, rainy years versus normal 7 year drought cycles, but it is a LIE that CO2 causes warming and that warming will definitely occur**
- Modest climate change, plus elevated CO<sub>2</sub>, may bring agricultural yield increases in the near term. But, as temperatures continue to rise, these crops will increasingly begin to experience failure. Increases in regional ozone levels will also adversely impact certain crops.  
**the LIE is that they are assuming the temperature will rise, whne there is no evidence to support that it will be caused by CO@**
- Climate change has very likely already increased the size and number of forest fires, insect outbreaks, and tree mortality in the interior West, the Southwest, and Alaska, and will continue to do so.  
**insect outbreaks due to ban on DDT, 90% of forest fires are started by human causes, the lie here is that they want you to believe that forests will be more suseptible to fire due to dry conditions caused by C)2 causing wamring, the big LIE**
- Changes in climate will cause species to shift north and to higher elevations and fundamentally rearrange U.S. ecosystems.  
**an opionion not a fact, nor any basis in actual science, an if then prediction, presented as fact- therefore a LIE**
- Ocean acidification is projected to continue, which can affect the productivity of marine life such as corals.  
**there is no proof that oceans which release billions of tons of CO2 are absorbing or becoming acidic due to man's .00017% contrubtion of CO2 to the Greenhouse effect, another LIE**
- Climate change impacts in certain regions of the world may exacerbate problems that raise humanitarian, trade, and national security issues for the United States.  
**which would happen naturally, but , since man made climate change has yet to be proven, this is simply fear mongering about issues that would happen regardless of man made CO2 once again assuming that man is causing climate change...another LIE**

*This fact sheet is intended to assist the public to understand key aspects of the proposal. However, this fact sheet is not intended to be a substitution for the proposal itself. Visit EPA's website at the address above for more information, including the proposal, or go to [www.regulations.gov](http://www.regulations.gov) to access the rulemaking docket (EPA-HQ-OAR-2009-0171) which will be opened when the proposal is published in the Federal Register. For questions that cannot be answered through the Web site or docket, call 202-343-9927.*