



# Tuesday's Tip

information provided by Adriance Memorial Library to make your life a little bit easier . . . .

Climate.gov

September 2, 2014

Where do you turn when you want authoritative and scientifically accurate information about climate? To **Climate.gov**, of course, the site vetted and run by the National Oceanic and Atmospheric Administration (the folks that also run the National Weather Service).

The screenshot shows the NOAA Climate.gov website. At the top left is the NOAA logo and the text 'Climate.gov science & information for a climate-smart nation'. A search bar is on the top right. Below the header is a navigation menu with links: Home, News & Features, Maps & Data, Teaching Climate, Supporting Decisions, About, Contact, FAQs, Site Map, and What's New?. The main content area is titled 'About NOAA Climate.gov' and includes sub-links: Mission, Staff, Background, Science Panel, Data Panel, Editorial policies & procedures, and NOAA Climate.gov team structure. The 'Mission' section is highlighted and contains the following text:

NOAA Climate.gov provides science and information for a climate-smart nation. Americans' health, security, and economic well-being are closely linked to climate and weather. People want and need information to help them make decisions on how to manage climate-related risks and opportunities they face.

NOAA Climate.gov is a source of timely and authoritative scientific data and information about climate. Our goals are to promote public understanding of climate science and climate-related events, to make our data products and services easy to access and use, to provide climate-related support to the private sector and the Nation's economy, and to serve people making climate-related decisions with tools and resources that help them answer specific questions.

Each of the tabs in NOAA Climate.gov is designed to serve a different audience:

1. **News & Features** is a popular-style magazine for the science-interested public covering topics in climate science, adaptation, and mitigation. [Visit the section...](#)
2. **Maps & Data** is a gateway for scientists and specialists to find and use climate maps and data for research and analysis. [Visit the section...](#)
3. **Teaching Climate** offers learning activities and curriculum materials, multi-media resources, and professional development opportunities for formal and informal educators who want to incorporate climate science into their work. [Visit the section...](#)
4. **Supporting Decisions** is a clearinghouse of reports, resources, and decision-support tools for planners and policy leaders who want authoritative climate science information to help them understand and manage climate-related risks and opportunities. [Visit the section...](#)

The sections for the site most suitable for general audiences are the 'News' and 'Teaching' parts. There are news stories in addition to detailed data sets, so historical comparisons of multiple factors-- like carbon dioxide released into the atmosphere can be correlated with global climatological events and conditions.

NOAA Climate.gov  
science & information for a climate-smart nation

News & Features | Maps & Data | Teaching Climate | Supporting Decisions | About | Contact | FAQs | Site Map | What's New?

Featured on Climate.gov 1 2 3 4 5

### 2014 temperature extremes: U.S. runs hot and cold

August 29, 2014

Filed in: News & Features

Never in the historical record have such large areas of the country experienced such radically different temperature extremes as they have so far in 2014.

[read more](#)

Recent Topics

- Learning Pathways for Educators that help Unpack the National Climate Assessment**  
August 29, 2014  
Filed in: Teaching Climate
- 2013's Billion Dollar Weather & Climate Disasters**  
August 25, 2014  
Filed in: Supporting Decisions
- What's the hottest Earth's ever been?**  
August 12, 2014  
Filed in: News & Features

NOAA Climate.gov  
science & information for a climate-smart nation

News & Features | Maps & Data | Teaching Climate | Supporting Decisions | About | Contact | FAQs | Site Map | What's New?

Reviewed resources for teaching about climate and energy

Climate Systems | Causes of Climate Change | Measuring & Modeling Climate | Climate Impacts | Human Responses to Climate | Nature of Climate Science

Featured Resources 1 2 3 4

### Global Patterns

This activity supports educators in the use of the activities that accompany the GLOBE Program's Earth System Poster 'Exploring Connections in Year 2007'. Students identify global patterns and connections in environmental data that include soil moisture, insolation, surface temperature, cloud fraction, precipitation, world topography/bathymetry, aerosol optical thickness, and biosphere (from different times of the year) with the goal of recognizing patterns and trends in global data sets.

[view resource](#)

Teaching Climate Literacy

Climate and energy are complex topics. There are many ways to approach climate and energy depending on the grade level, course topics and instructional method.

[Read more](#)

Professional Development [view all](#)

**Sep 8**

### Learning Pathways for Educators that help Unpack the National Climate Assessment

The presentation will provide an overview of the learning pathways developed for educators that help them...

[View event](#)

Search

Grade Level  
- Any -

[Find Resources](#)

Reviewed learning activities from [cleanet.org](#)

**Educational Resources**

Visuals | Videos | Demos & Experiments | Interactive Tools

### Introduction to Earth's Climate

This is the first of nine lessons in the "Visualizing and Understanding the Science of Climate Change" website. This lesson is an introduction to Earth's climate and covers key principles regarding Earth's unique climate, atmosphere, and regional and temporal climate differences.

### Teaching Climate Science by Studying Misinformation

In this activity, students critically evaluate the arguments about climate change raised in a climate contrarian newspaper op-ed. This exercise is intended to strengthen student critical thinking and content knowledge at the end of unit on the

There are a wealth of materials for teachers—or anyone interested in understanding and interpreting information in the atmospheric sciences.

The site also has detailed factual information on the economic impacts of natural disasters (storms, flooding, etc.) that are caused by changes in atmospheric conditions—underscoring the financial costs attached to climate change.

 **NOAA** NATIONAL CLIMATIC DATA CENTER  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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Home > Billion-Dollar Weather/Climate Disasters

## Billion-Dollar Weather/Climate Disasters: Overview

- Overview
- Mapping
- Time Series
- Summary Stats
- Table of Events

The National Climatic Data Center (NCDC) is the Nation's Scorekeeper in terms of addressing severe weather/climate events in their historical perspective. As part of its responsibility of monitoring and assessing the climate, NCDC tracks and evaluates climate events in the U.S. and globally that have great economic and societal impacts. NCDC is frequently called upon to provide summaries of global and U.S. temperature and precipitation trends, extremes, and comparisons in their historical perspective. Found here are the weather/climate events that have had the greatest economic impact from 1980 to 2013. The U.S. has sustained 170 weather/climate disasters since 1980 where overall damages/costs reached or exceeded \$1 billion (including CPI adjustment to 2013). The total cost of these 170 events exceeds \$1 trillion.



### 2013 in Context

In 2013, there were 9 weather/climate disaster events with losses exceeding \$1 billion each across the United States. These events included a drought event, 2 flooding events, and 6 severe storm events. Overall, these events resulted in the deaths of 113 people and had significant economic effects on the areas impacted.



### Methodology and Data Sources

In 2012, NOAA's National Climatic Data Center reviewed its methodology on how NCDC develops Billion-dollar Disasters. NCDC held a workshop with economic experts (May, 2012) and worked with a consulting partner to examine possible inaccuracy and biases in the data sources and methodology used in developing the loss assessments (mid-2013). This ensures more consistency with the numbers NCDC provides on a yearly basis and give more confidence in the year-to-year comparison of information.

After exploring this site, you will better understand the issues to be discussed at the UN Climate Summit (<http://www.un.org/climatechange/summit/category/news/>) later this month, exploring concerns and international approaches to climate change...