

Climate Change Adaptation Introductory Training for Local Governments *Resources List*

Section 1 – Introduction

Slides 1.1-1.4

No additional references

Section 2 – Climate Change Basics

Slide 2.1

No additional references

Slide 2.2

World Bank “Climate Change and Development”

<http://documents.worldbank.org/curated/en/2009/07/11472618/climate-change-development>

The President’s Climate Action Plan. June 2013

<http://www.whitehouse.gov/sites/default/files/image/president27sclimateactionplan.pdf>

Chicago’s Green Roofs Program

http://www.cityofchicago.org/city/en/depts/dcd/supp_info/chicago_green_roofs.html

IPCC Working Group II: Impacts, Adaptation and Vulnerability. Fourth Assessment Report: Climate Change 2007

http://www.ipcc.ch/publications_and_data/ar4/wg2/en/ch3s3-4-3.html

EPA Portal for Information on Emissions of Greenhouse Gases

<http://epa.gov/climatechange/ghgemissions/>

EPA Climate Change Mitigation Efforts

<http://www.epa.gov/climatechange/reducing-emissions.html>

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NASA Sustained Long-Term Climate Warming Trend

<http://www.nasa.gov/topics/earth/features/2012-temps.html>

National Climate Assessment, 2014. Recent U.S. Temperature Trends
<http://nca2014.globalchange.gov/report/our-changing-climate/recent-us-temperature-trends>

National Climate Assessment, Projected Temperature Change by 2071-2099
<http://nca2014.globalchange.gov/report/our-changing-climate/recent-us-temperature-trends>

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National Climate Assessment, 2014, Changes in Precipitation
<http://nca2014.globalchange.gov/report/our-changing-climate/precipitation-change#tab2-images>

National Climate Assessment, 2014, Heavy Downpours Increasing
<http://nca2014.globalchange.gov/report/our-changing-climate/heavy-downpours-increasing>

National Climate Assessment, 2014, Precipitation Change Projections
<http://nca2014.globalchange.gov/report/our-changing-climate/precipitation-change#tab2-images>

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National Oceanic and Atmospheric Administration. National Climatic Data Center. Historical Palmer Drought Indices
<http://www.epa.gov/climatechange/science/indicators/weather-climate/drought.html>

Strzepek, K., Yohe, G., Neumann, J., Boehlert, B., Characterizing changes in drought risk for the United States from climate change. December 7, 2010

Harvard School of Engineering and Applied Sciences. "Wildfires projected to worsen with climate change" August 28, 2013
<http://www.seas.harvard.edu/news/2013/08/wildfires-projected-worsen-with-climate-change>

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NOAA, Tides and Currents
<http://tidesandcurrents.noaa.gov/sltrends/slrmap.htm>

National Climate Assessment, 2014 Report
<http://nca2014.globalchange.gov/report/our-changing-climate/sea-level-rise>

Slide 2.7

Jane Hawkey, IAN Image Library. Sea Level Rise and Storm Surge
<http://ian.umces.edu/imagelibrary/>

Thomas R. Knutson, Global Warming and Hurricanes. Last Revised January 20, 2013
<http://www.gfdl.noaa.gov/global-warming-and-hurricanes>

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No additional references

Section 3 – Vulnerabilities of Local Communities

Slides 3.1-3.2

No additional references

Slide 3.3

CREAT Tool
<http://water.epa.gov/infrastructure/watersecurity/climate/creat.cfm>

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No additional references

Slide 3.5

U.S. EPA, *Climate Change: The Cost of Inaction*
<https://www.youtube.com/watch?v=1o8qJJ8jcx0>

Slides 3.6-3.7

No additional references

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EPA: Particulate Matter

<https://www.epa.gov/pm-pollution>

EPA: Ozone

<https://www.epa.gov/ozone-pollution>

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Salt Lake City Sustainability Department

<http://www.slccgreen.com/>

Slide 3.10

Centers for Disease Control and Prevention. "Climate Effects on Health"

<http://www.cdc.gov/climateandhealth/effects/default.htm>

Chicago Climate Action Plan

<http://www.chicagoclimateaction.org/pages/adaptation/11.php>

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No additional references

Slide 3.12

Facing Climate Change: Plateau Tribes

<http://www.frequency.com/video/facing-climate-change-plateau-tribes/76643783/-/5-1280694>

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Chicago Climate Action Plan. 2008

<http://www.chicagoclimateaction.org/filebin/pdf/finalreport/CCAPREPORTFINALv2.pdf>

Climate Change and Chicago: Projections and Potential Impacts, Executive Summary. November 7, 2007

http://www.chicagoclimateaction.org/filebin/pdf/report/Chicago_Climate_Impacts_Report.pdf

Climate Ready Boston. October 2013

http://www.cityofboston.gov/news/uploads/30044_50_29_58.pdf

City of Chester Vision 2020:

<http://seagrant.noaa.gov/SeaGrantSearch/TabId/526/ArtMID/3568/ArticleID/303/The-City-of-Chester-Vision-2020-Climate-Adaptation-Planning-Elements.aspx>

Section 4 – Key Takeaways and Resources

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No additional references

Slide 4.2

Federal resources can be found at:

US Climate Data Portal

<https://www.data.gov/climate/>

Here you can find data related to climate change that can help inform and prepare America’s communities, businesses, and citizens. You can find data and resources related to coastal flooding, food resilience, water, ecosystem vulnerability and human health. Over time, you will be able to find additional data and tools relevant to other important climate-related impacts, including risks to human health, and energy infrastructure.

US Climate Resilience Toolkit

<http://toolkit.climate.gov/>

The Climate Resilience Toolkit provides resources and a framework for understanding and addressing the climate issues that impact people and their communities.

Smart Growth principles and practices

<http://www2.epa.gov/smart-growth/about-smart-growth>

ADDITIONAL RESOURCES

Climate Change Vulnerability Assessment for San Juan Bay, Puerto Rico

<https://www.youtube.com/watch?v=rdlWakSnvww>

Uploaded on Feb 13, 2015

The San Juan Bay (Puerto Rico) National Estuary Program used EPA’s publication, “Being Prepared for Climate Change: A Workbook for Developing Risk-Based Adaptation Plans” to create a risk-based climate change vulnerability assessment. This video describes some climate change impacts that are already affecting San Juan, documents why the San Juan Bay National Estuary Program undertook this vulnerability assessment project, and explains the benefits of conducting the study.

- For more information about Climate Ready Estuaries or to download the “Being Prepared for Climate Change” workbook, go to <http://www.epa.gov/cre>

Being Prepared for Climate Change: A Workbook for Developing Risk-Based Adaptation Plans

<https://www.youtube.com/watch?v=djcdjMGRRz0>

Published on Oct 8, 2014

Identifying risks associated with climate change and managing them to reduce their impacts is essential. The Climate Ready Estuaries publication, "Being Prepared for Climate Change: A Workbook for Developing Risk-Based Adaptation Plans" is a much needed guide for conducting risk-based climate change vulnerability assessments and developing adaptation action plans. The workbook helps organizations to identify, analyze and prioritize their climate change challenges. In developing an action plan, the workbook guides users to address their most pressing problems and identify potential adaptation actions to lower those risks.

Climate change is happening

<https://www.youtube.com/watch?v=PRv3mZQDYEE>

Published on Apr 21, 2014

Earth is getting warmer. Our planet's average temperature has risen by 1.4 degrees in the past century and is projected to increase during the next hundred years. The rise in global temperatures has been accompanied by changes in weather and climate. Rainfall patterns are shifting causing more floods, droughts, intense storms and severe heat waves. Oceans are warming and becoming more acidic. Ice caps are melting causing sea levels to rise. Human activities are mainly responsible for releasing large amounts of carbon dioxide and greenhouse gases into the atmosphere, causing it to warm.

Climate change and the economy

<https://www.youtube.com/watch?v=BKkf99VtaB8&list=PLBhfkkujnoRB2-MJKSMN9SL0jZ0jXz8Am&index=6>

Published on Aug 26, 2013

History shows we can take care of our environment while growing our economy. Innovation is where our economic and environmental interests meet -- and where future jobs are created. Americans can meet the challenge of climate change.

Becoming Climate Ready

<https://www.youtube.com/v/hzT6TP1p29g?hl>

Uploaded on Aug 7, 2013

This video highlights the importance of water and wastewater utility extreme weather event and climate change adaptation planning. Ms. Annie Chiodo of the Waynesboro Water System represents a small water utility in southern Tennessee. She learned through real-world experience that one must adapt to survive. A string of floods in 2003, 2004, and 2010 devastated her utility, but by taking small steps, such as installing waterproof doors, Waynesboro reduced its "downtime" due to severe floods from four days (2003 flood) to just 18 hours (2010 flood).

EPA's Climate Showcase Communities Program

<https://www.youtube.com/watch?v=hcPeP8R7I38>

Published on May 8, 2013

EPA's Climate Showcase Communities Program helps local and tribal governments pilot innovative, cost-effective, and replicable community-based greenhouse gas reduction projects. There are 50 Climate Showcase Communities across the U.S. that represent a range of cities, towns, counties, regional governments, and tribal nations. Your community can learn from these pilot projects and replicate their successes. These projects can help communities become more energy efficient and save consumers money through renewable energy production, residential and commercial energy efficiency, waste management, transportation, and sustainable land use. Interested in learning more and taking action? Contact us at <http://epa.gov/climateshowcase>

Preparing the United States for the Impacts of Climate Change," Executive Order, 13653

<https://www.whitehouse.gov/the-press-office/2013/11/01/executive-order-preparing-united-states-impacts-climate-change>

Executive Order 13653, "Preparing the United States for the Impacts of Climate Change," calls for managing the risks of climate change through deliberate preparation, close cooperation and coordinated planning, modernizing Federal programs to support climate resilient investment, and managing lands and waters and providing information, data, and tools for climate preparedness and resilience. The Order also describes the requirements for Federal Agency Adaptation Plans, and establishes an interagency Council on Climate Preparedness and Resilience.

State, Local, and Tribal Leaders Adaptation Task Force

<http://www.whitehouse.gov/administration/eop/ceq/initiatives/resilience/taskforce>

Executive Order 13653, "Preparing the United States for the Impacts of Climate Change," created a State, Local, and Tribal Leaders Task Force on Climate Preparedness and Resilience to inform Federal efforts in terms of responding to the needs of communities nationwide that are dealing with the impacts of climate change. The Task Force met throughout the year and members included governors, mayors, county officials, and Tribal leaders from across the country.

States-Tribes-EPA Adaptation Symposium

<http://www.climate-adaptation-symposium.org/>

A webinar series hosted by North Carolina State, in cooperation with EPA, that aimed to bring together tribal, state and local stakeholders, federal representatives, and experts from a variety of sectors to consider the impact of EPA's new Climate Change Adaptation Plan on the implementation of federal environmental programs. The series presented case studies, tools and solutions to some of the most pressing climate change adaptation challenges.

US EPA Climate Change Adaptation Implementation Plans

<http://www.epa.gov/climatechange/Downloads/EPA-climate-change-adaptation-plan.pdf>

Following completion of the draft Climate Change Adaptation Plan, each EPA National Environmental Program Office, all 10 Regional Offices, and several National Support Offices developed a Climate Adaptation Implementation Plan to provide more detail on how it will carry out the work called for in the agency-wide plan. Each Implementation Plan articulates how the office will integrate climate adaptation into its planning and work in a manner consistent and compatible with its goals and objectives. Taken together, the Implementation Plans demonstrate how the EPA will attain the 10 agency-wide priorities presented in the Climate Change Adaptation Plan.