Planning for North Carolina's Future: Ask the Climate Question Climate Change Adaptation Workshop hosted by N.C. Interagency Leadership Team And Next Steps

Report to
N.C. Legislative Commission on Global Climate Change
March 15, 2010

Overview

- 1. Interagency Leadership Team
- 2. Summary of Climate Change Adaptation Workshop
- 3. Next Steps

























Interagency Leadership Team's Climate Change Activities

Goal 2:

Partner with local governments and other stakeholders to integrate local use and long-range transportation planning as well as applicable environmental & economic planning initiatives to meet mobility, economic, and environmental goals

Climate Change Activities:

- Communicate to internal and external stakeholders the challenges created by climate change in order to raise awareness
- Work with stakeholders in vulnerable areas of NC to develop strategies for adaptation to climate change



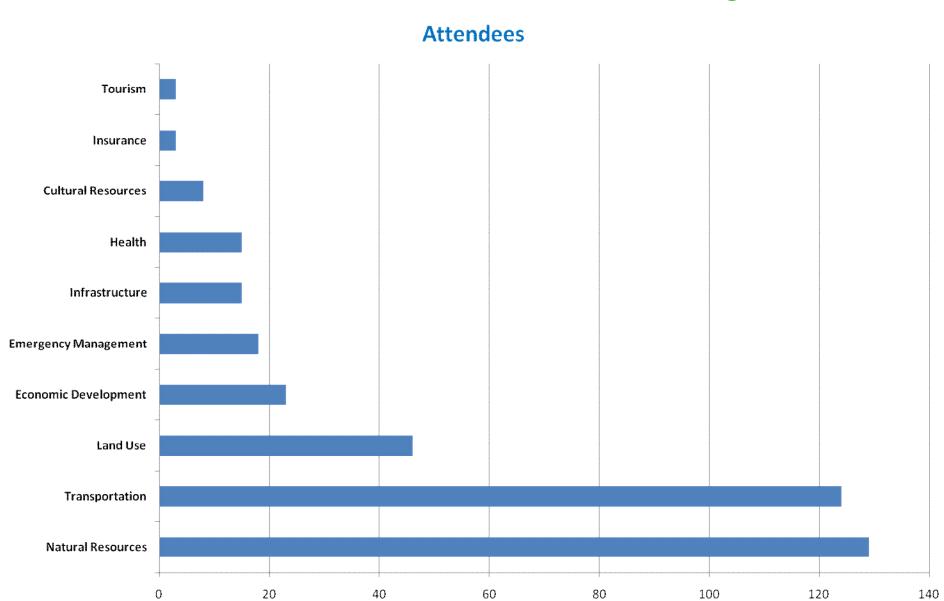
Ask The Climate Question

Workshop Purpose

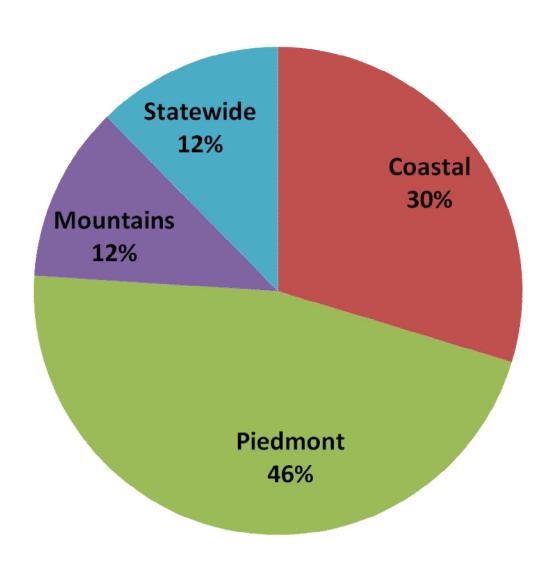
 Educate decision makers about the projected climate change impacts and adaptation strategies that can build our state's resilience

 Build partnerships to work toward development of State Climate Action Plan.

Broad Interest Across Planning Areas



Regional Representation



Governor's Support

"By proactively planning and working together, we can be better prepared to address the challenges of climate change ... and be better positioned to find new opportunities for our state in the face of those challenges."

Governor Beverly Perdue

State Agency Support

Top leadership of Environment & Natural Resources, Transportation, Commerce, Cultural Resources, and Insurance addressed how their agencies will need to address climate change.

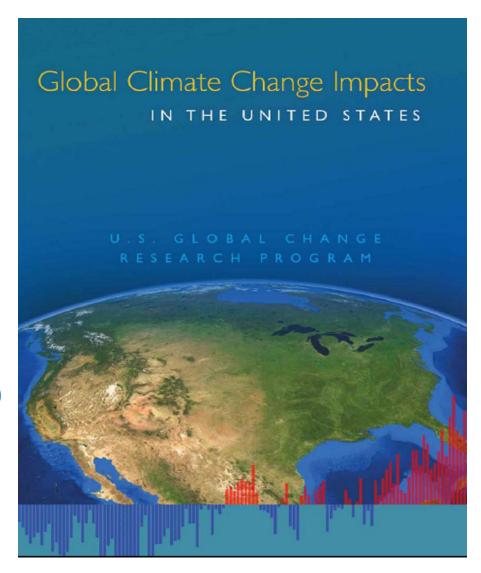
Highlights

- Overview of Global Climate Change Impacts on U.S.
- Projected Impacts and Adaptive Responses:
 - Water
 - Transportation & Infrastructure
 - Energy
 - Ecosystems
 - Human Health
 - Society

To What Are We Adapting?

- Key Summary for
 Decision Makers:

 Regional Impacts of
 Climate Change and
 Weather Extremes in
 the United States
 - From US Global Change Research Program (USGCRP)
 & NOAA 2009



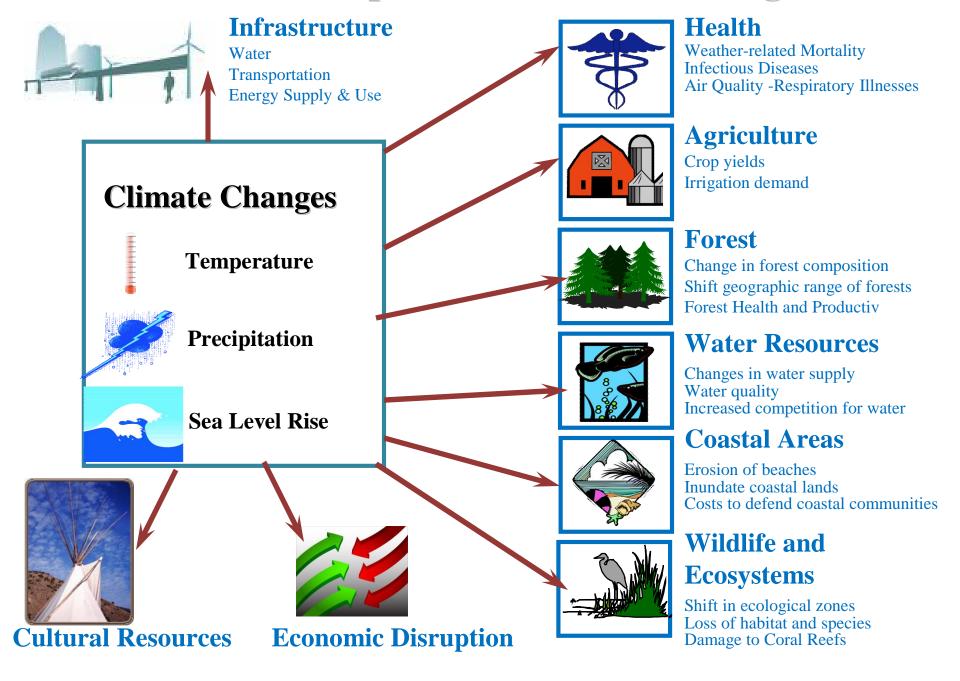
Key Finding 10: Future climate change and its impacts depend on choices made today

- Two (or 3) options
 - Adaptation to improve our ability to cope with or avoid harmful impacts and take advantage of beneficial ones
 - 2. Mitigation to reduce emissions of heat trapping gases or increase their removal
- Both are necessary
- 3rd Option: Simply to do nothing and suffer.

What is Climate Adaptation?

- 1. Preparedness: Risk & Hazard "Mitigation"
- 2. Passive Adaptation: Reacting to Climate Change
- 3. Active Adaptation: Planning Ahead for Climate Change
 - ➤ <u>Toward Resilience</u>: Ability to cope with or bounce back from climate impacts

Potential Impacts of Climate Change



Other Highlights

- Communicating Climate Science in a Changing Media Environment
- Bridging the Hazards Management-Climate Change Adaptation Divide
- •Maryland's example of how they developed their climate change policy and practices

MD Adaptation Planning Process

Review state of the science

Assess climate vulnerability

Identify critical information gaps

Consider and prioritize key issues of concern

Explore potential adaptation strategies

Evaluate adaptation infrastructure (institutional framework)

Identify opportunities & mechanisms to affect change

Recommend action strategies (short, medium long-term)

Varying Regional Impacts

Mountains

- Water resources and climate variability
- Vulnerability and Emergency Response
- Ecosystem Services

Piedmont

- Urban societal issues and growth, land use change
- Water and Power
- Transportation

Coastal Plain

- Sea Level Rise and Storm Surge
- Agriculture
- Coastal population patterns, protection, and retreat

Next Steps

- 1. Continue DENR Climate Change Initiative.
- 2. Begin dialogue about development of a Climate Action Plan for the state.
- 3. ILT will discuss involvement in development of a Climate Action Plan for the state.
- 4. Begin coordinating with other partners (universities; federal, state and local government agencies).

Presentations are archived at www.climatechange.nc.gov