

**STATE ENVIRONMENTAL HEALTH INDICATORS COLLABORATIVE (SEHIC)
CLIMATE CHANGE INDICATORS**

Indicator: CC5: Adaptation Indicators

Measure(s): CC5.1: Development of State Adaptation Plan

MEASURE: Development of State Adaptation Plan

Last updated:	April 25, 2010
Measurement units:	Recommended, In Progress/Completed
Geographic scale:	Statewide
Time scale:	Periodically updated
Significance/background:	Climate scientists have already observed climatic variations in the U.S. that are likely linked with rising levels of greenhouse gas emissions. While mitigation activities will slow long term climate change, scientists predict a minimum global ambient temperature increase of 2° Celsius.
Rationale:	Adaptation must inform mitigation strategies, both in terms of policy prioritization and in planning for the future. The development of an adaptation plan, usually in concert with or as a subset of a larger climate change action plan, is the first step in addressing the needs of climate change adaptation.
Limitations:	Most adaptation plans have been developed too recently to show a track record of implementation. They are generally crafted using broad language without specific policy priorities.
Data resources:	Pew Center on Global Climate Change: http://www.pewclimate.org/what_s_being_done/in_the_states/adaptation_map.cfm
Data limitations:	The Pew website identifies which states have developed or recommended developing adaptation plans. However, it does not provide links to the plans or more detail than a general overview of the relevant mandate.
Related data:	ICLEI Climate Resilient Communities Program: http://www.icleiusa.org/programs/climate/Climate_Adaptation Climate Impacts Group Climate Adaptation Case Studies (CASES) database: http://cses.washington.edu/cig/cases U.S. EPA listing of Local Adaptation Plans on the “Impacts & Adaptation” portion of the State and Local Climate and Energy Program website: http://www.epa.gov/statelocalclimate/local/topics/impacts-adaptation.html
Related SEHIC measures:	CC 1.1: Greenhouse Gas Emissions CC 1.2: Air Mass Stagnation Events CC 1.3: Ozone due to Climate Change CC 1.4: Maximum and Minimum Temperatures/Heat Index CC 1.5: Increase in Heat Alerts/Warnings

	CC 1.6: Pollen Counts CC 1.7: Frequency, Severity, Distribution, and Duration of Wildfires CC 1.8: Droughts CC 1.9: Harmful Algal Blooms CC 2.1: Excess Mortality due to Extreme Heat CC 2.2: Excess Morbidity due to Extreme Heat CC 2.3: Number of Injuries/Mortality from Extreme Weather Events CC 2.4: Human Cases of Infectious Disease/Positive Test Results in Sentinels and Reservoirs CC 2.5: Respiratory/Allergic Disease and Mortality Related to Increased Air Pollution and Pollens CC 3.1: Population Vulnerability or General Social Vulnerability CC 3.2: Heat Vulnerability CC 3.3: Flood Vulnerability CC 3.4: Sea Level Rise Vulnerability CC 5.2: Access to Cooling Centers CC 5.3: Number of Heat Alerts, Heat Health Watch/Warning Systems CC 5.4: Number of Municipal Heat Island Mitigation Projects and Plans CC 5.5: Number of Health Surveillance Systems Related to Climate Change CC 5.6: Number of Public Health Workforce Trained in Climate Change CC 6.1. Number, Percent, and Percent of Population of Local Governments Participating in ICLEI CC 6.2 Number, Percent, and Percent of Population Living in Cities Participating in the U.S. Conference of Mayors Climate Protection Agreement CC 6.3: Creation of a State Climate Change Advisory Board CC 6.4 Completion of a Greenhouse Gas Inventory CC 6.5 Completion of a State/Local Climate Change Action Plan
Recommendations:	The ICLEI Climate Resilient Communities Program is set to launch in 2010. It will provide a central location for tracking local adaptation plans and programs similar to the information on the Pew Climate Change website identified under this measure. Suggest adding a new measure, “Development of a Local Adaptation Plan” when the ICLEI Climate Resilient Communities Program is launched. In the meantime, the Pew Center on Global Climate Change has published a report, “Adaptation Planning – What U.S. States and Localities are Doing,” that lists the localities participating in various adaptation initiatives. The report was last updated August 2009 and available at: http://www.pewclimate.org/docUploads/state-adaptation-planning-august-2009.pdf

HOW-TO GUIDE: Development of State Adaptation Plan

1. Go to the Pew Center on Global Climate Change website:
http://www.pewclimate.org/what_s_being_done/in_the_states/adaptation_map.cfm
2. On the map on this website, if your state is shaded blue then an adaption plan is in progress or has been completed for your state. If your state is shaded brown then an adaptation plan is recommended by the state climate action plan.
3. By clicking the state, more information can be obtained about the status of the adaptation plan.