

Selected Climate Change Publications by Resource Area

Topic	Reference
CHANGES IN CLIMATE (National)	<p>US Global Change Resource Program. 2017. Climate Science Special Report – This report is an authoritative assessment of the science of climate change, with a focus on the United States.</p> <p>US Forest Service. 2018. A Gallery of Climate Data and Resources – The Office of Sustainability and Climate has compiled web-based maps and resources related to climate change, including projections of temperature, precipitation, and snow residence time</p>
CHANGES IN CLIMATE (Regional)	<p>New England and New York Forest Ecosystem Vulnerability Assessment and Synthesis: A Report from the New England Climate Change Response Framework (Janowiak et al. 2018) – Chapter 2 of the report summarizes regional changes in climate.</p> <p>US Forest Service. 2018. A Gallery of Data and Resources Related to the New England and Northern New York Vulnerability Assessments – The Office of Sustainability and Climate has compiled web-based maps and resources related to the New England forest vulnerability assessment.</p> <p>Trends in Extreme Precipitation for the Northeast United States, 1948-2007</p> <p>Trends in Wintertime Climate in the Northeast United States, 1965-2005</p>
CHANGES IN CLIMATE (State)	<p>New Hampshire State Climate Summary (NOAA/Runkle et al.: 2017) – Provides a nice overview and figures related to past climate trends and future projections.</p> <p>The University of New Hampshire produced several state-level reports: Climate Change in Northern New Hampshire: Past, Present, and Future Climate Change in Southern New Hampshire: Past, Present, and Future Climate Change and Human Health in New Hampshire</p> <p>NOAA's Climate-at-a-Glance interface provides an easy way to look up historical data and make figures.</p>
Forests	<p>New England and New York Forest Ecosystem Vulnerability Assessment and Synthesis: A Report from the New England Climate Change Response Framework (Janowiak et al. 2018) – Summarizes current understanding of climate change impacts on forests ecosystems and provides model projections of tree species and forest change (see appendices 4-6 for additional model results..</p> <p>A Gallery of Data and Resources Related to the New England and Northern New York Vulnerability Assessments (US Forest Service: 2018) –The Office of Sustainability and Climate has compiled web-based maps and resources related to the New England forest vulnerability assessment.</p> <p>Changing Climate, Changing Forests: The Impacts of Climate Change on Forests of the Northeastern United States and Eastern Canada (Rustad et al.: 2012) – This report also provided a regional overview.</p> <p>USDA Forest Service Climate Change Tree Species Atlas – Provides model projections of potential suitable habitat for Eastern tree species in different climate scenarios. Climate change projections for New England tree species derived from the Tree Atlas can be found here.</p>
Wildlife (incl. fish and aquatic orgs.)	<p>New Hampshire Wildlife Action Plan (New Hampshire Fish and Game Department: 2015) – Chapter 4 includes a section on Climate Change and Severe Weather.</p> <p>Staudinger et al. 2015. Integrating Climate Change into Northeast and Midwest State Wildlife Action Plans – Summarizes regional climate change impacts on wildlife and identifies ecosystems and species at greatest risk. Potentially most relevant is Chapter 3: Biological Responses to Climate Impacts with a Focus on Northeast and Midwest Regional Species of Conservation Need, which highlights vulnerable terrestrial and aquatic species.</p> <p>New England and New York Forest Ecosystem Vulnerability Assessment and Synthesis: A Report from the New England Climate Change Response Framework (Janowiak et al. 2018) – Appendix 8 contains additional description of some impacts to wildlife.</p> <p>USDA Forest Service Climate Change Bird Atlas – Maps and numerical summary data that show how each species' suitable habitat is projected to change under three different climate models, for both high and low emissions scenarios.</p>

	<p>Brook Trout Atlas – Interactive atlases that allow users to explore mapped data related to brook trout populations, habitats, and threats in local watersheds and across their eastern range.</p> <p>Littlefield, C. E., & D'Amato, A. W. (2022). Identifying trade-offs and opportunities for forest carbon and wildlife using a climate change adaptation lens. Details potential trade-offs when managing for forest carbon and wildlife benefits amidst climate change.</p>
Recreation	<p>There is a good amount of literature (a few references included here) related to changes in winter recreation and tourism:</p> <p>Climate Impacts on the Winter Tourism Economy of the United States (Natural Resources Defense Council and Protect Our Winters: 2012) – Provides a good overview of economic and social impacts.</p> <p>Riding Winter's Trails (Hubbard Brook Research Foundation: 2014) – Summarizes discussion from a roundtable of NH snowmobile groups.</p> <p>Projected Climate Change Impacts on Skiing and Snowmobiling (Wobus et al: 2017) – Includes projections for 2050 and 2090 that indicate significantly reduced seasons.</p> <p>A temporal importance-performance analysis of recreation attributes on national forests: a technical document supporting the Forest Service update of the 2010 RPA Assessment (Askew et al.: 2017) – provides a comprehensive analysis of projected changes in recreation given changes in demographics and climate. Identifies activities expected to increase and decrease.</p>
Water Resources	<p>Streamflow responses to past and projected future changes in climate at the Hubbard Brook Experimental Forest, New Hampshire, USA (Campbell et al.: 2011) – Modeled response of Hubbard Brook watershed to future changes in climate.</p> <p>Regional climate change projections of streamflow characteristics in the Northeast & Midwest U.S. (Demaria et al.: 2016) – Includes coarse-scale projections of stream changes in New England and New York using more recent climate models.</p>
Riparian Areas	<p>Incorporating climate change projections into riparian restoration planning and design (Perry et al: 2015) – Review paper that discusses how restoration activities can respond to anticipated climate impacts.</p>
Botany	<p>Do invasive alien plants benefit more from global environmental change than native plants? (Liu et al: 2016) – Review paper showing that invasive plants are better able to take advantage of increased temperature and carbon dioxide levels relative to native plants.</p>
Cultural Resources	<p>Climate Change and World Heritage (UNESCO: 2006) – Older report, but table 1 provides a good summary of the type of impacts that climate change could have on heritage resources. Part of a series.</p>