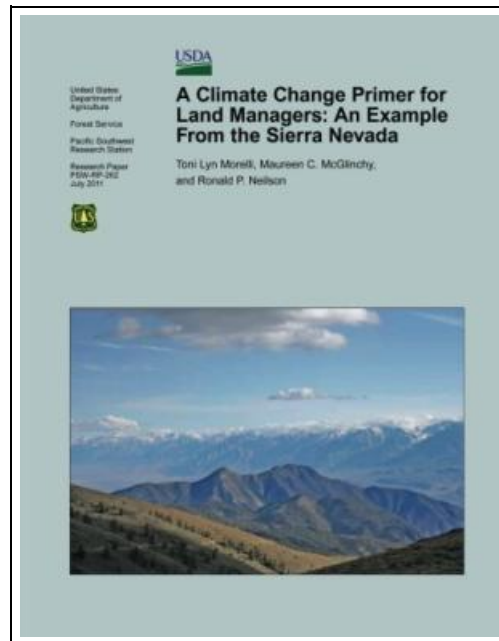


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Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 52 pages. Dimensions: 11.0in. x 8.5in. x 0.1in. The objective of this paper is to present a template for conducting a review of the latest climate research for a particular management unit. As an example, background material is provided from a recent climate change adaptation workshop held in Bishop, California, including some of the latest climate change projections relevant to the eastern Sierra Nevada, as well as a glossary of terms. This work was part of the Westwide Climate Initiative (WWCI)s Toolkit for Adapting to Climate Change on Western National Forests. Globally, the average, minimum, and maximum temperatures are rising as a result of human-induced increases in greenhouse gases. Other global physical effects of anthropogenic climate warming include the melting of arctic sea ice and land-based ice bodies, thawing of the permafrost, global sea level rise, earlier spring runoff, and more frequent and more extreme weather events. Biologically, species ranges are shifting poleward and upward, and phenology is changing. In California, rising sea levels, increasing average and extreme temperatures, changing precipitation regimes, and more frequent and severe wildfires are also projected. Scientists have already observed an increase in rain versus snow, earlier snowmelt, streamflow, and earlier budbreak. In the Sierra Nevada, winter temperatures are projected to increase the most. Changes in snowfall and snowmelt in the Sierra Nevada could cause water shortages throughout the state, as the Sierra Nevada is the source of most of Californias water supply in the dry season. Climate change could have cascading effects across the Sierra Nevada, starting with physical changes and working its way through food webs, as in Lake Tahoe. Climate change effects on wildlife and vegetation will be complex and are not yet understood. We also present specific modeled projections for...

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