Howard will climate change affect winter recreation?
Recent research from Northern Minnesota

Many communities that depend on winter tourism are at risk. What happens, for instance, when there is not enough snow to support skiing? With a changing climate, will winter recreation-based economies still be sustainable? Although climate change happens slowly, community planners and natural resource managers need to understand how to best respond to changing environmental conditions. The sustainability of winter recreation destinations depends on decisions made today.

Scientists from across the country have recently come together in an effort to better understand how climate change will affect the winter outdoor recreation opportunities offered along Minnesota’s North Shore region (Smith et al., 2016; Bitsura-Meszaros et al., 2015).

In their research, winter visitors were given a survey to determine how their outdoor recreation decisions might change in the next 20 years under future climatic conditions. Overall, the researchers found little change in the way visitors said they would travel after considering how climate change would affect outdoor recreation settings along the North Shore. However, they learned that not all visitors think alike. When researchers broke the respondents into groups, they found the people who visited just once or twice in a winter season preferred colder weather and sought it out as an important part of their trip.

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The second group were those who were more frequent visitors to the North Shore. Although this group was in the minority overall, they were more sensitive to the impacts of climate change and preferred warmer temperatures. This group reported they would take more trips to the North Shore in the future as temperatures increased and the shoulder seasons become longer. This information suggests some visitors believe climate change might actually improve the quality of outdoor recreation opportunities offered along the North Shore (warmer weather = more desirable conditions = more trips).

The research highlights the importance of not lumping all visitors together in one group. People have differing tastes, preferences and expectations for outdoor experiences. Knowing how outdoor recreationists’ behavioral responses to climate change vary will help community planners and natural resource managers make decisions that will benefit both their communities and their winter guests.

The researchers also found that economics drove outdoor recreationists’ decision making. If a person spent $461.14 and made two trips to the region during the winter, their costs would have to increase by $32.14 for them to change plans and visit just once. People also said that if the changing climatic conditions negatively impacted the economies of the communities they were visiting, that they would visit less often in the future.

Minnesota’s North Shore of Lake Superior is typical of many regions facing difficult decisions about how to best plan for a shifting climate. More research is needed to understand how outdoor recreation systems will respond to climate change so that decision makers will know how to best plan for long term development and growth.

REFERENCES