

# Tettegouche State Park

## Summer Visitor Survey



Survey Dates:

July 15 - August 3, 2015

Number of Visitors Surveyed:

1398 North Shore Visitors

80 Tettegouche State Park Visitors

### Project Overview:

A changing climate can impact recreation and tourism. We wanted to know how current visitors to Minnesota's North Shore think changing conditions will change their future travel plans.

### Trip Characteristics

#### Current Trip Length:

North Shore: 4 nights

Tettegouche: 4 nights

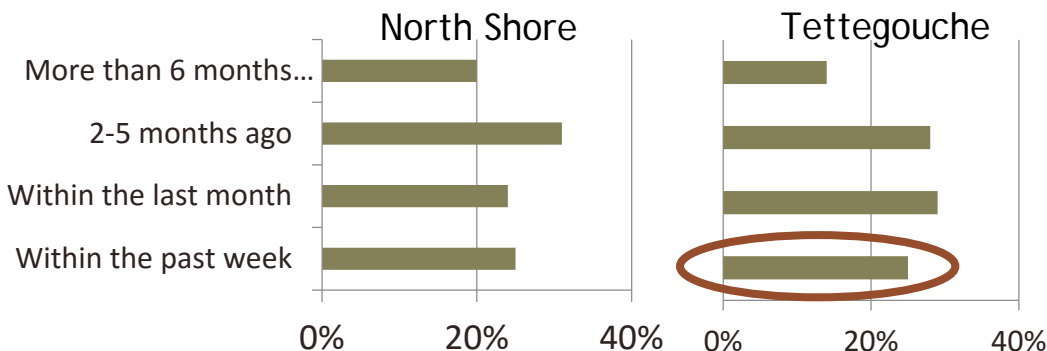
#### # of Summer 2016 Trips:

North Shore: 2 trips

Tettegouche: 2 trips

Average  
Group  
Size  
3  
people

#### When did they plan their trip?



1/4

of visitors plan their trip spontaneously.

### Who Visits?

#### North Shore:

56% female

55% age 45 or older

66% from Minnesota

#### Tettegouche:

55% female

62% age 45 or older

70% from Minnesota

# of years participants have been visiting the North Shore:  
North Shore: 16 years  
Tettegouche: 20 years

53% of Tettegouche visitors agree that "The North Shore is part of my identity."

# How might changing environmental conditions alter visitors' travel plans?

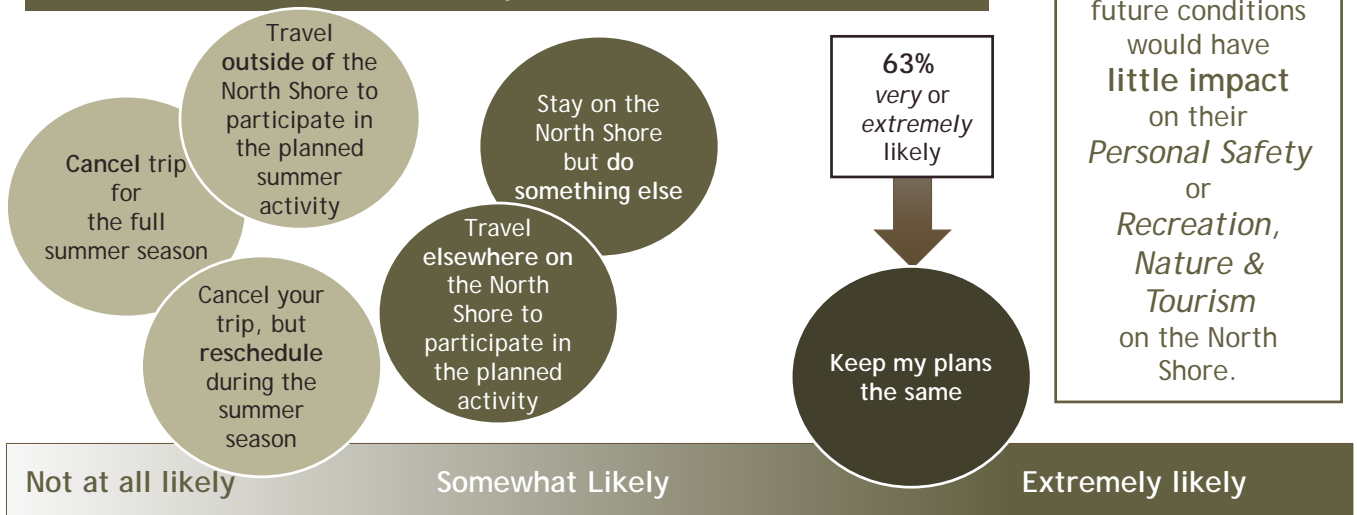
Tettegouche State Park  
Summer Visitor Survey

We presented visitors with *recent* and one of four different sets of *potential future* conditions and asked them how many trips in the summer if the future conditions were what was to be expected instead of the current conditions.

| % of days in a month                             | Recent        | Future        |
|--|---------------|---------------|
| above the avg. temperature (60°F)                | 15 of 30 days | 19 of 30 days |
| above the avg. heat index (66°F)                 | 14 of 30 days | 20 of 30 days |
| with 'high,' 'very high,' or 'extreme' fire risk | 5 of 30 days  | 6 of 30 days  |
| with greater than ¼" rainfall                    | 5 of 30 days  | 4 of 30 days  |
| % of inland streams                              | Recent        | Future        |
| with brook trout                                 | 77%           | 20%           |
| with small mouth bass                            | 53%           | 58%           |

If the conditions on the North Shore matched the *potential future* conditions, **Tettegouche** visitors report they would make, on average, two recreational trips to the region each summer.

If faced with the *potential future* conditions, Tettegouche visitors said that they would:



Visitors were asked to consider an opportunity to contribute to a fund (public or private) for a North Shore organization to plan and adapt recreation and tourism resources to climate change...

**37%** of all visitors & **45%** of Tettegouche visitors

would be willing to pay \$30 annually for a climate change adaptation fund.

This work is the result of research sponsored by the Minnesota Sea Grant College Program supported by the NOAA office of Sea Grant, United States Department of Commerce, under grant No. R/CC-05-14. The survey was developed & administered by researchers (faculty, graduate students & undergraduate students) at NC State University, the University of Minnesota, & Carleton College. This fact sheet was developed by Allie McCreary & Erin Seekamp (NC State University) on July 25, 2016.

For more information on the survey and other parts of the project, visit:  
[www.NorthShoreClimate.com](http://www.NorthShoreClimate.com)



# Tettegouche State Park

## Winter Visitor Survey



Survey Dates:

January 8-19 & February 13-16, 2015

Number of Visitors Surveyed:

852 North Shore Visitors

59 Tettegouche State Park Visitors

### Project Overview:

A changing climate can impact recreation and tourism. We wanted to know how current visitors to Minnesota's North Shore think changing conditions will change their future travel plans.

### Trip Characteristics

#### Current Trip Length:

North Shore: 2 nights

Tettegouche: 2 nights

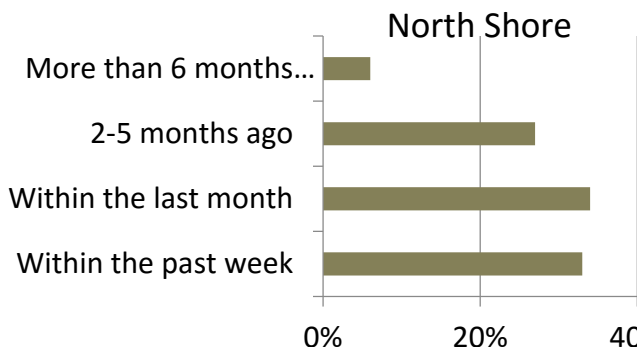
#### # of Winter 2016 Trips:

North Shore: 2 trips

Tettegouche: 3 trips

Average  
Group  
Size  
2  
people

#### When did they plan their trip?



### Who Visits?

#### North Shore:

51% male

54% age 18 - 45

77% from Minnesota

#### Tettegouche:

51% male

45% age 18 - 45

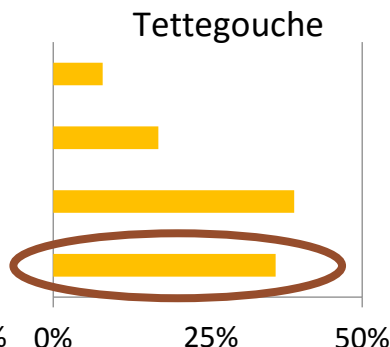
81% from Minnesota

# of years participants  
have been visiting  
the North Shore:

North Shore: 17 years

Tettegouche: 22 years

52% of Tettegouche visitors agree that "The North Shore is part of my identity."



1/3

of visitors  
plan their trip  
spontaneously.

# How might changing environmental conditions alter visitors' travel plans?

Tettegouche State Park  
Winter Visitor Survey

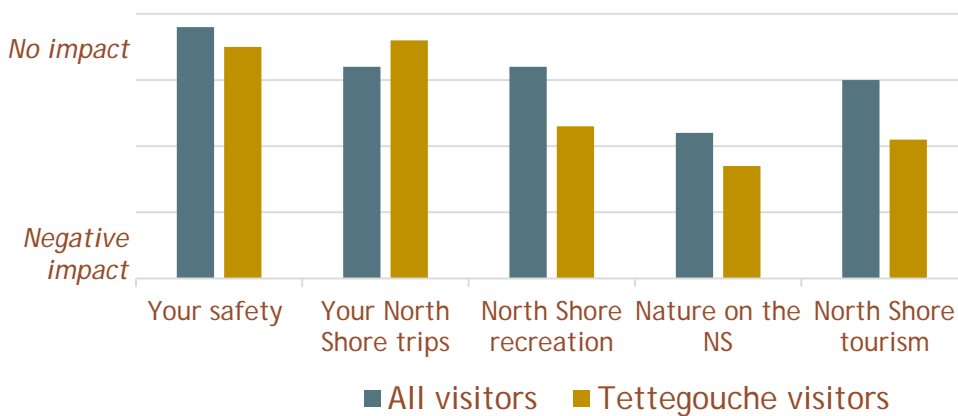
We presented visitors with *recent* and one of three different sets of *potential future* conditions and asked them how many trips in the winter if the future conditions were what was to be expected instead of the current conditions.

| Winter Conditions                     | Recent      | Future      |
|---------------------------------------|-------------|-------------|
| Average snow depth                    | 13.6 inches | 7.7 inches  |
| Average ice thickness at inland lakes | 18.7 inches | 15.1 inches |
| Average daily high temperature        | 18.8°F      | 23.5°F      |
| Average daily low temperature         | 3.5°F       | 8.7°F       |
| Average daily maximum wind chill      | 13.9°F      | 20.8°F      |
| Average daily minimum wind chill      | -9.2°F      | 0.1°F       |

If the conditions on the North Shore matched the *potential future* conditions, Tettegouche visitors report they would still make, on average, three recreational trips to the region each winter.

In general, Tettegouche visitors felt that the potential future conditions would have **little impact** on their *Personal Safety, Future North Shore Trips* or *Recreation, Nature & Tourism* on the North Shore.

## How do you think the future *winter* conditions would impact the following items:



To consider an opportunity to contribute to a fund (public or private) for a North Shore organization to plan and adapt recreation and tourism resources to climate change...

**37%** of all visitors **&** **39%** of Tettegouche visitors

would be willing to pay \$30 annually for a climate change adaptation fund.

This work is the result of research sponsored by the Minnesota Sea Grant College Program supported by the NOAA office of Sea Grant, United States Department of Commerce, under grant No. R/CC-05-14. The survey was developed & administered by researchers (faculty, graduate students & undergraduate students) at NC State University, the University of Minnesota, & Carleton College. This fact sheet was developed by Allie McCreary & Erin Seekamp (NC State University) on July 25, 2016.

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