



WELCOME!

Aug. 31, 2016

Tonight's Agenda

Project Overview

Harry Burkholder, Executive Director (LIAA)

- Who Is LIAA?
- What is the project and what is “resilience”?
- What is a Master Plan and what does it mean for the Island?

Resilience For Community Health

Roger Racine, Michigan Dept. of Health and Human Services

- How Climate Variability Impacts health
- Community Vulnerability

Leveraging Recreational Resources for Economic Development

Harry Burkholder, Executive Director (LIAA)

Group Visioning Activity

Who Are You?



LIAA is a Section 501(c)3 nonprofit corporation created in 1993 to stimulate & support greater civic engagement.

Our mission statement is:

*Helping people shape
better communities through:*

- *participation,*
- *education,*
- *information &*
- *the effective use of technology*



What Are We Doing?

Update the Peaine and St. James Twp. Master Plan

What About All The Work That's Been Accomplished Already?

- Last full master plan update: 2006
- Utilize and build upon all the work and revisions that the planning commission has been working on
- Utilize and build upon the work of the Island Institute
- Utilize and build upon the public/private initiatives already accomplished and underway

Planning for Resilient Communities

Program Partners



Project Grant Support from:

Coastal Zone Management, MDEQ

Kresge Foundation

Water Center, University of Michigan



Similar Resilient Planning Efforts Underway in
Monroe, Ludington, St. Joseph, Grand Haven, Macomb County and East Jordan

What We're Proposing

A Unique Master Planning Effort

Planning for a Resilient Beaver Island

Learning, Adapting & Thriving

A different way of viewing the master plan process, focusing on the cooperative preparation, adaptation and the creative development of **community systems in the face of changing conditions and circumstances.**

Planning for a Resilient Community

If Beaver Island can plan and prepare for change, they can reduce exposures and increase their adaptive capacity; that is, communities can develop greater **resilience**.

Community Resilience Is:

1. The capacity to withstand disruptions & shocks (i.e., take the hit)
2. The capacity learn from adversity and adapt quickly to new circumstances

What Changing Conditions and Circumstances?

- Aging population
- Workforce housing
- Access to health care
- Reliable Access to broadband technology
- Education
- Year round economic viability for residents
- The next unknown shift

How the island is already working to meet changing conditions and circumstances?

- Eco-Tourism
- Invasive Species
- Community supported projects
- Community partnerships
- Island Institute

What is a Master Plan?

A formal assessment of the strengths & weaknesses of the community

Through civic engagement, it's the expressed vision for the future of the community

A formal policy guide or "blueprint" for community development

A flexible document - should respond to changing conditions, innovations, new information



How is a Master Plan used?

Basis for land use regulation (e.g., zoning)

Guides decisions on development and public capital improvements

Provides support and improves eligibility for potential projects

- Grant Requests
- Millage
- Public/Private Partnerships

Provides a guide for the conservation of community resources and quality of life

Positions community to meet future challenges



Proposed Timeline

August

- Review existing documents
- Meet with community stakeholders and public kick-off meeting

September 13th

- Present data on the island
- Stakeholder meetings for vulnerability assessment

September 26th & 27th

- Present draft outline of master plan
- Stakeholder meetings for vulnerability assessment

October 10th & 11th

Master Plan Workshop

- Speakers
- Vulnerability/Risk Presentation
- Community and School Exercises

October 24th

- Draft Plan to Planning Commission

Proposed Timeline, Continued

November 8th

- Summary of the plan available on project website
- Present draft goals and objectives, future land use to the public (open house)
- Implementation matrix

November 15th

- Special study session to edit and revise the plan

November 22nd

- Present public comments to the planning commission
- Joint Board/PC Meeting to Begin 63 day public comment period

January

- Hold public hearing(s)
- Adopt Master Plan

How Do I Know What's Going On and How Do I Stay Engaged?

- Beaver Island Forum
- Facebook
- News on the Net
- Advertisements and Press Releases
- Radio
- Email Notices
- **Project Website**

www.resilientmichigan.org/beaverisland

www.resilientmichigan.org/beaverisland

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www.resilientmichigan.org/beaver_island.asp

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ABOUT COMMUNITIES BUILDING RESILIENCE CONTACT US

Home > Communities > Resilient Beaver Island

RESILIENT BEAVER ISLAND

At 54 square miles, Beaver Island is the largest island in Lake Michigan, located about 30 miles offshore from the City of Charlevoix in northwest Lower Michigan. The island's rich history includes Native American and European settlers and industries such as fishing and logging. Today, it is a popular tourist destination.

The purpose of the Resilient Beaver Island project is to engage the residents of Peaine Township and St. James Township in the development of a new joint master plan for the two island jurisdictions. Much like a blueprint, a master plan serves as the public's guide for the development of a community and the management of its resources. Although portions of the current joint master plan have been updated throughout the years, the last comprehensive update to the master plan was completed several years ago.

"Resilience" is a measure of the sustained ability of a community to utilize available resources to respond to, withstand, and/or recover from adverse situations. Communities that are resilient are able to learn from adversity and adopt quickly to change, both of which are hallmarks of successful communities today. The Resilient Beaver Island planning process will address a wide range of concerns such as natural resource preservation, efforts to build the local economy, and ways to manage the impacts of climate variability.

Most of the resources for the Resilient Beaver Island effort are being provided through the Traverse City-based nonprofit Land Information Access Association (LIAA), which is also managing the project. Most of the project costs will be covered by a grant provided to LIAA by the Michigan Coastal Zone Management Program, Office of the Great Lakes, Department of Environmental Quality.

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Sign up for Resilient Beaver Island E-News

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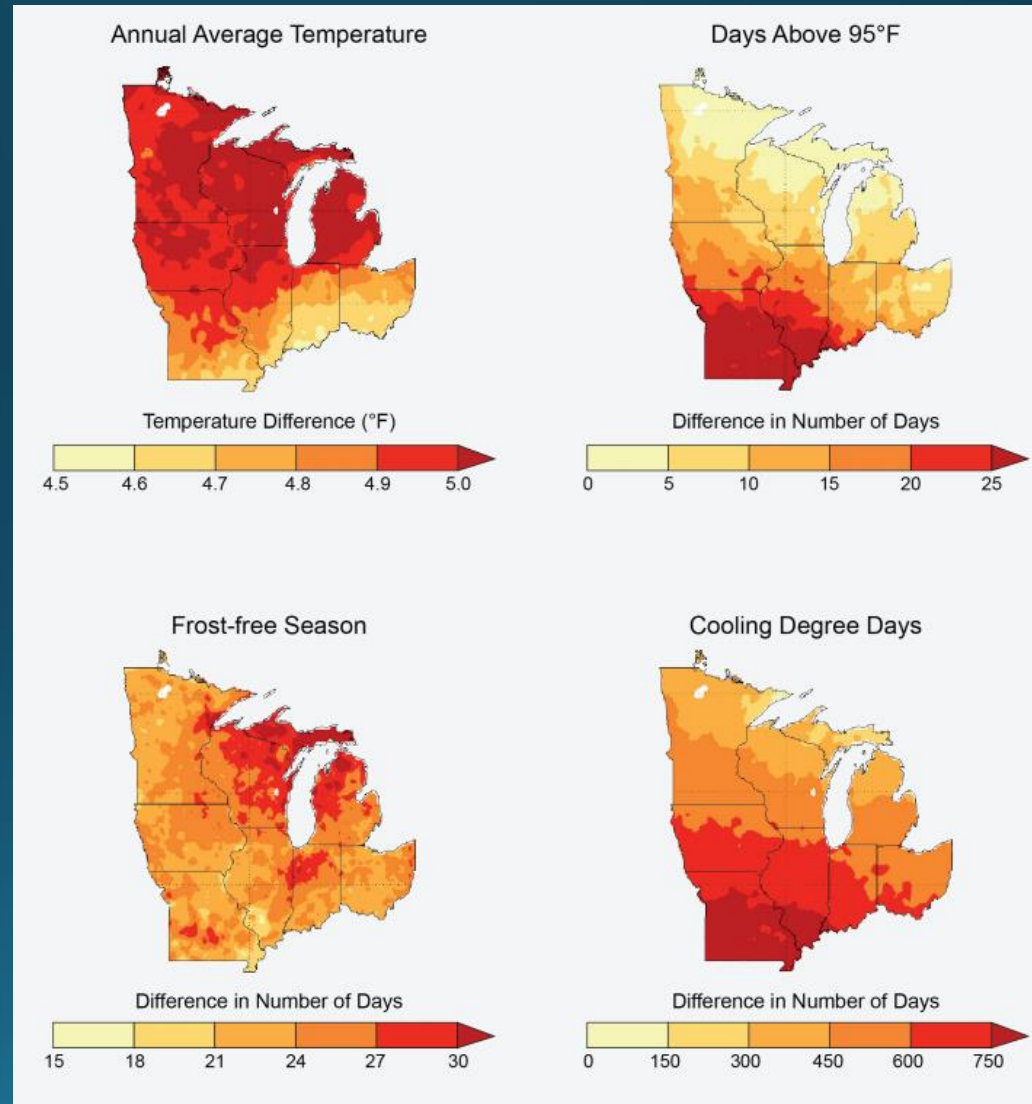
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Leveraging Recreational Resources for Economic Development

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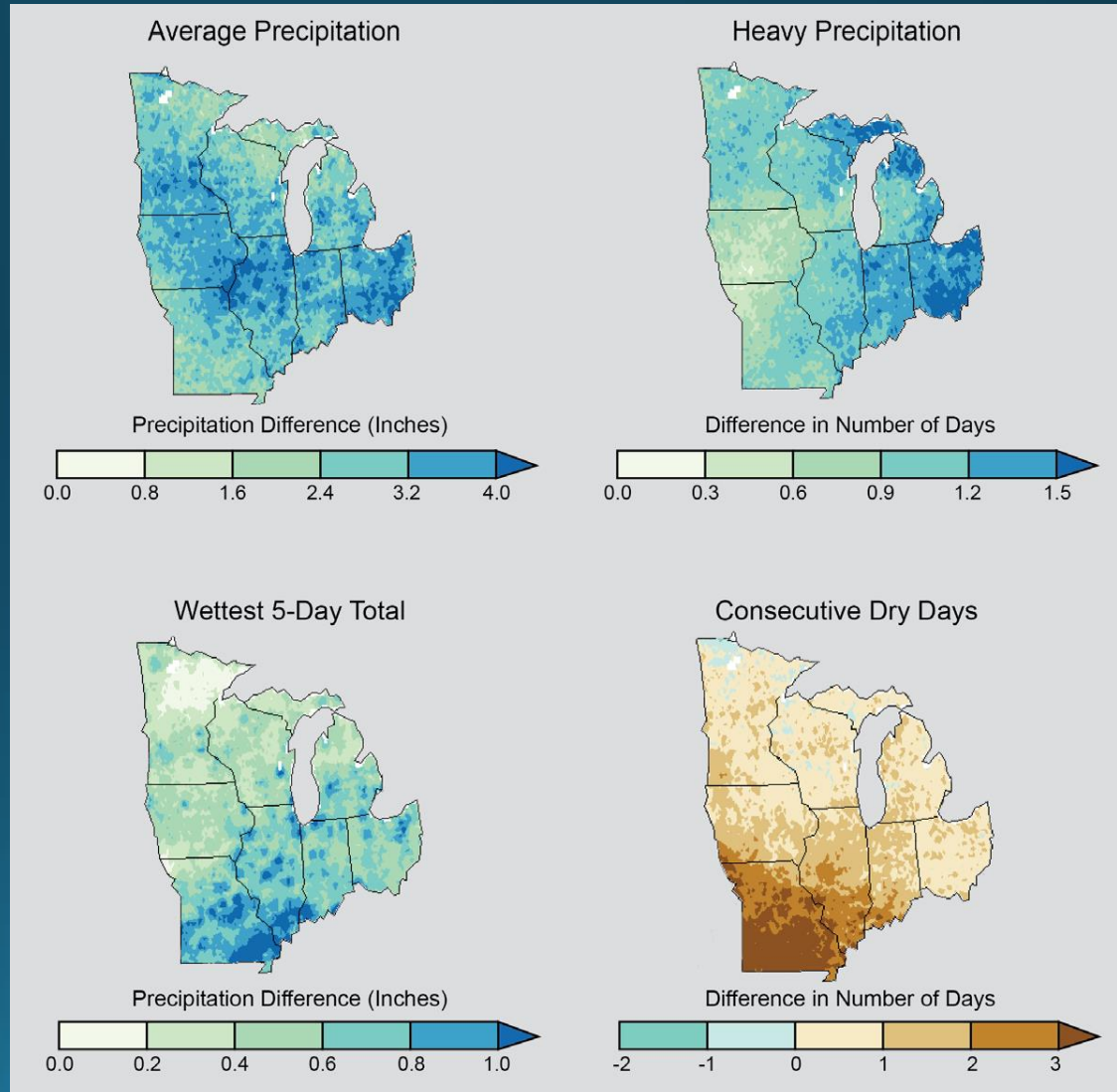
Extreme Weather Events and Climate Variability

Projected Temperature-Related Changes 2041-2070 vs. 1971-2000



Extreme Weather Events and Climate Variability

Projected Precipitation-Related Changes 2041-2070 vs. 1971-2000



Acknowledging Community Challenges

Climate Change and Variability Potential Impacts and Challenges

- Increases in winter and spring precipitation
- Less precipitation as snow and more as rain
- Less winter ice on lakes
- Greater frequency and intensity of storms
- More flooding events and risk of erosion
- Increases in frequency and length of severe heat events
- Increased risk of drought, particularly in summer

Rivers, Streams and Lakes

Decline in cold water fish - changing fisheries

Increases in stormwater runoff

Lower lake levels

Plants and Wildlife

Increase in invasive species that damage trees and plants

Changes in tree species able to survive

Extended growing seasons

Energy & Industry

Increase in electrical demand

Reduced water availability

Transportation

Increased damage to roads and other infrastructure

Public Health

Increased risk of illness due to heat

Increased risk of water contamination

Increased risk of vector diseases

Group Exercise

Questions

1. What new ideas or information could we bring to help the island?
2. What health concerns do you have about the island and it's residents ?
3. How could the master plan strengthen the island?
4. How could recreation be improved on the island?
5. What has changed on the Island in the time that you have been here?