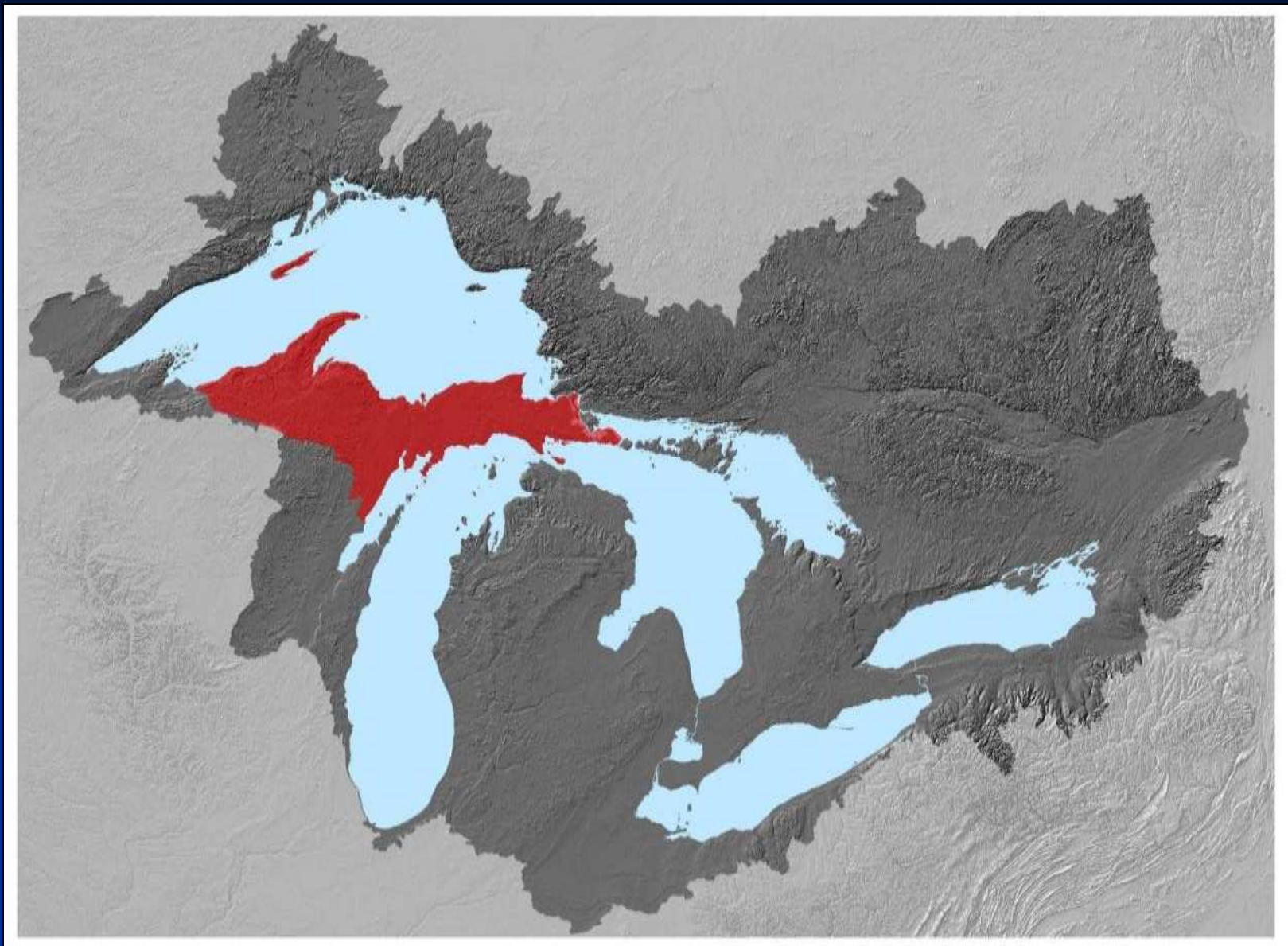




SUPERIOR
WATERSHED
PARTNERSHIP
AND LAND TRUST



The New York Times

The New York Times

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Sponsored Links

[Deck Drainage System](#) Double the enjoyment of your deck! Creates dry space under raised deck
www.dekdrain.com/

Theater Listings: March 2 & 3

2 days ago ... The young cast members who inhabit this premiere revival of Jonathan Larson's **watershed** rock opera from 1996, directed by Michael Greif, ...

March 2, 2012

Tune-In Music Festival Salutes Philip Glass

3 days ago ... At the Park Avenue Armory's Tune-In Music Festival, a celebration of Philip Glass's 75th birthday, included his **watershed** "Music in 12 Parts" ...

February 29, 2012 - By STEVE SMITH

atHurt Village, & by Katori Hall

4 days ago ... the new Pershing Square Signature Center, as a rousing, latter-day response to Hansberry's **watershed** drama of 1959, "A Raisin in the Sun."

February 28, 2012 - By BEN BRANTLEY

Santorum Draws the Faithful at Michigan Rally

4 days ago ... LANSING — At an energetic rally here, Rick Santorum said Monday afternoon that the Michigan primary on Tuesday could mark a **watershed** in ...

February 27, 2012 - The Caucus

In Paris, Damir Doma and Limi Feu Go Back in Time

3 days ago ... After a **watershed** collection last season of dresses with waist-high slits and sexy exposed skin, expectations were high for the designer ...

March 1, 2012 - By JESSICA MICHAULT

Egypt Court Sets Mubarak Verdict for June

Any outcome will be a **watershed** in the history of the region. Mr. Mubarak, along with his interior minister, is charged with directing the killing of ...

February 25, 2012 - By DAVID D. KIRKPATRICK

Is China Ripe for a Revolution?

But this **watershed** moment for modern China will not be widely celebrated in the People's Republic. The political climate in Beijing is tense as ...

February 12, 2012 - By STEPHEN R. PLATT

Wild Salmon Are Not Holding Up, Study Finds

Salmon populations in California's Mokelumne **watershed** are on the rise, but it turns out that only 4 percent are of wild origins.

February 9, 2012 - Green Blog

TIMES TOPICS: Salmon

Salmon populations in California's Mokelumne **watershed** are on the rise, but it ... Lagunitas Creek **Watershed** in Marin County Is Prime Breeding Ground for ...

THE MINING Journal

Your search for:

watershed

returned **100** results.

Results in News, Blogs, Polls & Events:

page: | 1 | 2 | 3 | 4 | 5 |

1) in NEWS

Mine changeover looks like good deal for area

June 16, 2013 At first glance it appears the \$325 million sale announced this week of the Rio Tinto Eagle Mine to Toronto-based Lundin Mining will produce little change to the plans, staffing, tax revenue and... more **

2) in NEWS



Great Lakes guys take aim at invasive species

June 1, 2013 MACKINAC ISLAND — Despite an unresolved dispute over Asian carp, states that surround the Great Lakes hope to develop a common strategy for battling invasive species during a meeting of governors... more **

3) in NEWS



Wisconsin college students visit Marquette for community development discussion

May 20, 2013 MARQUETTE — Students from Northland College in Ashland, Wis., visited the area last week for a chance to learn about efforts to increase the community's

sustainability. more **

4) in NEWS



Yellow Dog adventure

May 15, 2013 MARQUETTE — Fifth-grade students from Bothwell Middle School got a little taste of life as a scientist Tuesday morning as they ventured out into the woods

TOWNSHIPS AND CITIES OF THE UPPER PENINSULA OF MICHIGAN



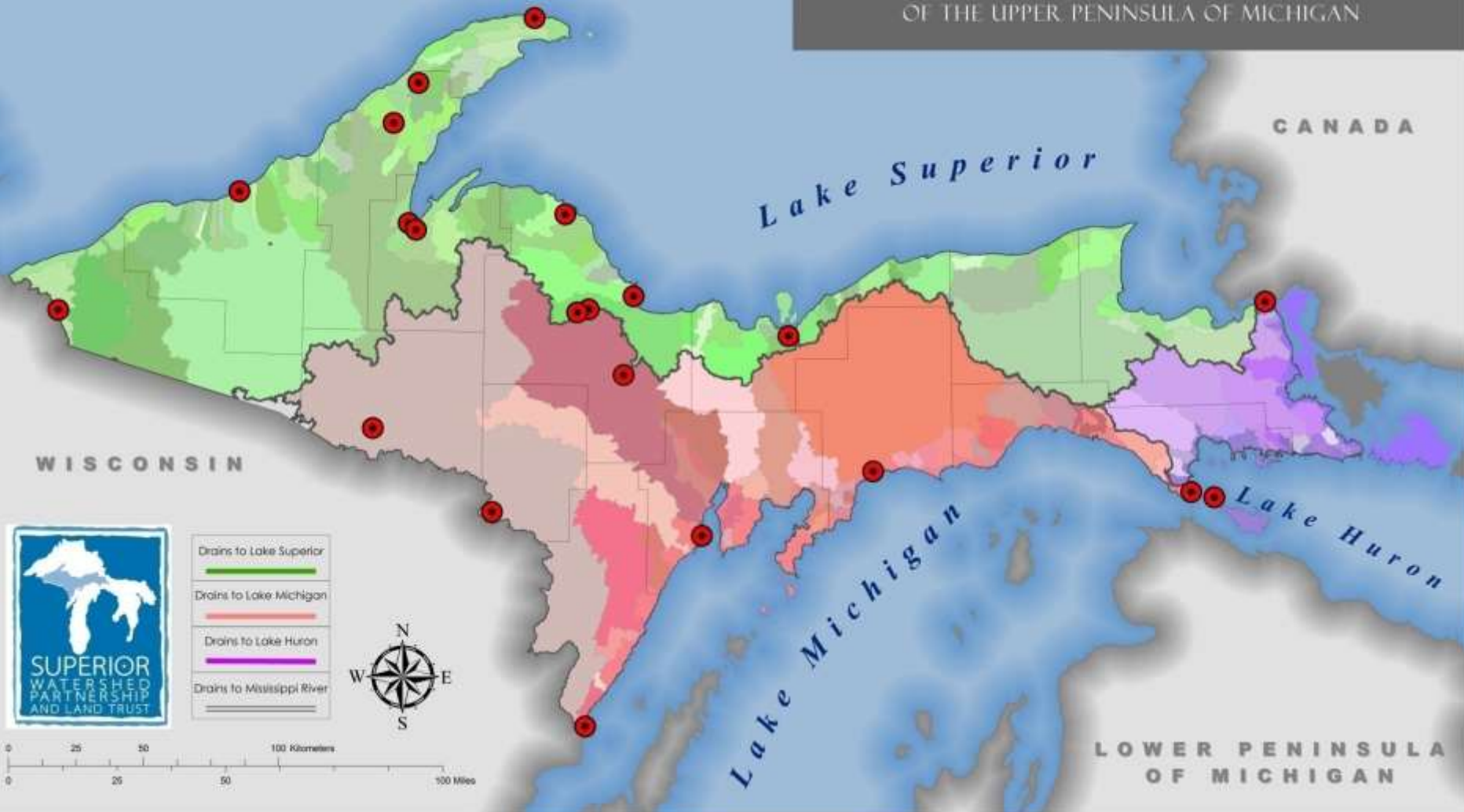
WATERSHEDS

OF THE UPPER PENINSULA OF MICHIGAN



WATERSHEDS

OF THE UPPER PENINSULA OF MICHIGAN





U.S. Global Change Research Program

National Climate Assessment

“Substantial adaptation planning is occurring....however, few measures have been implemented.”

City of Marquette Watersheds

What Watershed Do You Live In?



Carp River Watershed

Lake Superior

Marquette

Ishpeming Negaunee



LOWER DEAD RIVER WATERSHED MANAGEMENT PLAN

July 2003



In Cooperation with the
Marquette County Conservation District and
Central Lake Superior Watershed Partnership







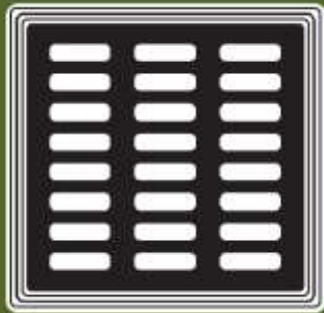
TAKE THE STORMWATER CHALLENGE!

Cleaner stormwater means a cleaner Lake Superior

The City of Marquette includes four major watersheds that naturally drain to Lake Superior (Dead River, Whetstone Brook, Orianna Creek and the Carp River). But did you know that underneath the city there is a system of stormwater pipes that also drain directly to the lake (see map)?



Each time it rains (or snow melts) water from roads, roofs, sidewalks and yards enters the nearest storm drain and makes its way to an outlet at Lake Superior. It's important to keep our stormwater runoff as clean as possible especially since most stormwater outlets are located near our public beaches.



Did you know that there are over 3,300 storm drains in the City of Marquette and they ALL drain to Lake Superior! Stormwater is a Resource, Not a Waste Product. Please Help Keep it Clean!



City of Marquette Storm Drain Underground Stormwater Drainage System (not to scale) Storm Water Outlet



WHEN YOU TREAT THE LAWN

REMEMBER

YOU'RE NOT JUST

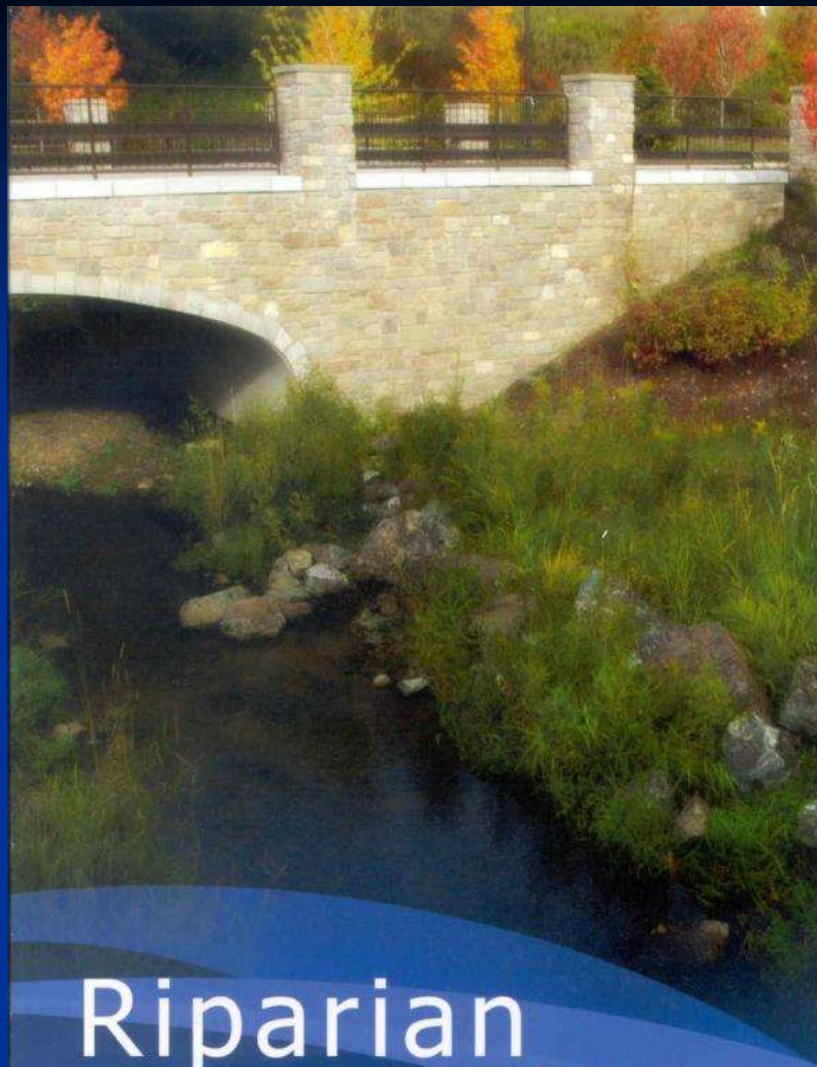
TREATING THE LAWN.



Did you know that there are over 3,300 storm drains in the City of Marquette and they ALL drain to Lake Superior! Stormwater is a Resource, Not a Waste Product. Please Help Keep it Clean!

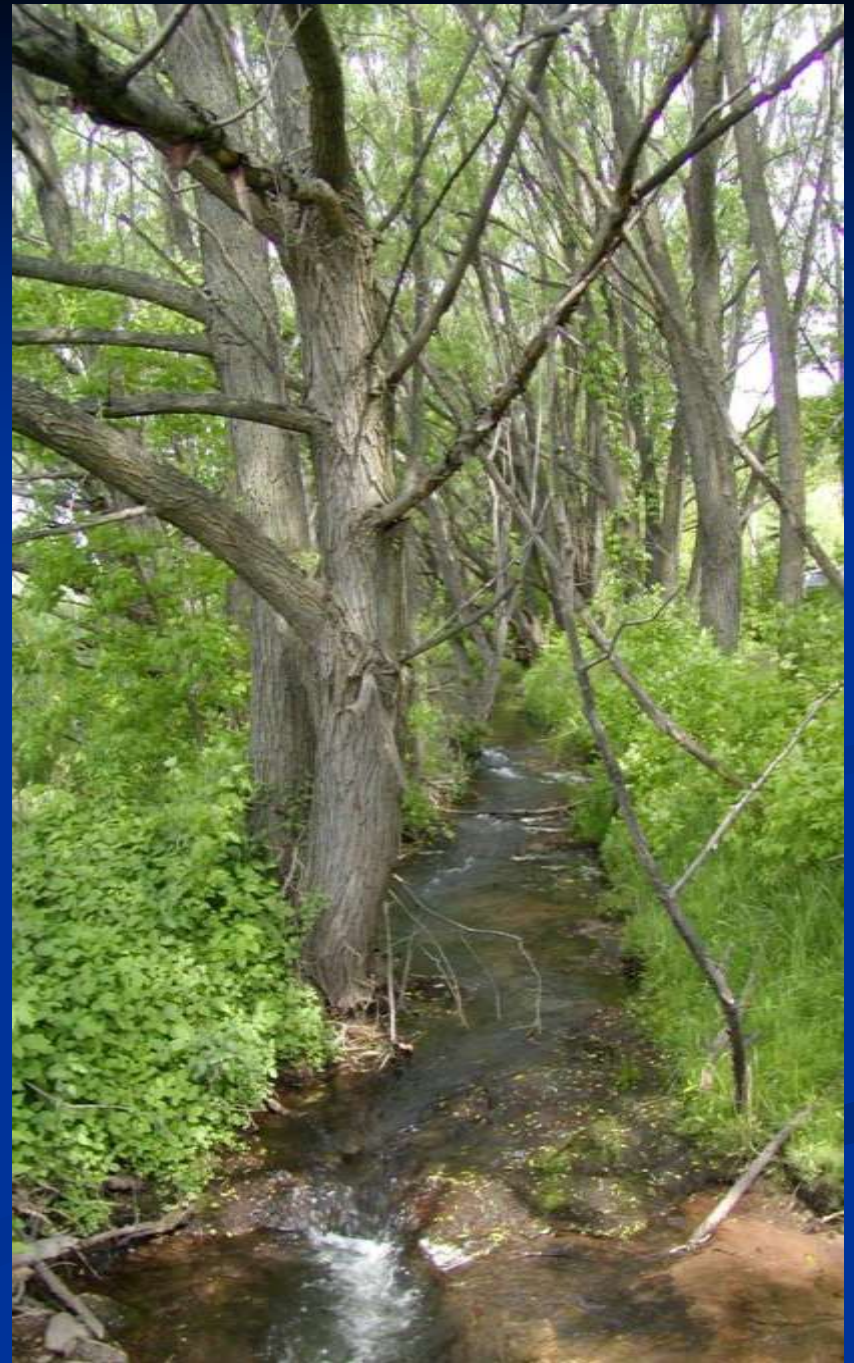
Suggestion: Sweep up any fertilizer that lands on the sidewalk, driveway or road.
Get your soil tested; you may not need fertilizer. Consider natural landscaping alternatives.

Brought to you by the Superior Watershed Partnership. For more information contact the SWP:
www.superiorwatersheds.org or 906.228.6095



Riparian Buffers

Water's natural defense















U.S. Environmental Protection Agency Great Lakes National Program Office (GLNPO) Significant Activities Report



Is Your Home Ready for Winter?

**Call today to
schedule a
comprehensive
home energy
assessment!
(for only \$50)**

906.228.6095

**Funding is available to
help you improve your
home's energy efficiency
and lower your utility bills.**



**Superior Watershed Partnership
www.marquettebbfm.org**

BetterBuildings for Michigan: Making Michigan More Energy Efficient— One Building at a Time!

When your home or business loses energy, you lose money. That's why we've built a program from the ground up, focusing on communities across Michigan to help families and businesses save hundreds on their energy bills.

BetterBuildings for Michigan gives families and businesses the financial tools and expert advice to make affordable energy saving improvements.

Join us in this statewide movement to make Michigan more energy efficient. Together we can make a difference one building at a time.

- The BetterBuildings for Michigan residential program provides direct support—including **home energy assessments, incentives and access to affordable loan options**—to Michigan homeowners looking to make their homes more energy efficient.
- The residential program will offer energy efficiency improvements to more than **11,340 homes** statewide.
- Participating homeowners can expect to save hundreds on their utility bills while improving the comfort and value of their home.
- The **SmartBuildings Detroit** program leverages other incentives and energy optimization programs available to commercial property owners to encourage energy efficiency improvements in commercial, institutional and public buildings in downtown Detroit.

For more information about the residential and commercial programs, visit www.betterbuildingsformichigan.org.



BetterBuildings for Michigan uses a community approach to deliver energy efficiency improvements for homes and businesses by providing access to incentives and affordable loans. The program is supported by the American Recovery and Reinvestment Act (ARRA) and developed by the Michigan Energy Office, Michigan Saves, the City of Grand Rapids, the Economic Development Corporation of the City of Detroit, and the Southeast Michigan Regional Energy Office.





Community Wind Power

A GUIDE FOR UPPER PENINSULA COMMUNITIES





LAKE SUPERIOR CLIMATE ADAPTATION, MITIGATION and IMPLEMENTATION PLAN

For Communities in the Lake Superior Watershed of Michigan's Upper Peninsula



Developed by the
Superior Watershed Partnership

In cooperation with Climate Solutions University,
Pictured Rocks National Lakeshore, US Forest Service,
Great Lakes Integrated Science Assessments,
Headwaters Economics and the Great Lakes
and St. Lawrence Cities Initiative

WATERSHEDS

OF THE UPPER PENINSULA OF MICHIGAN

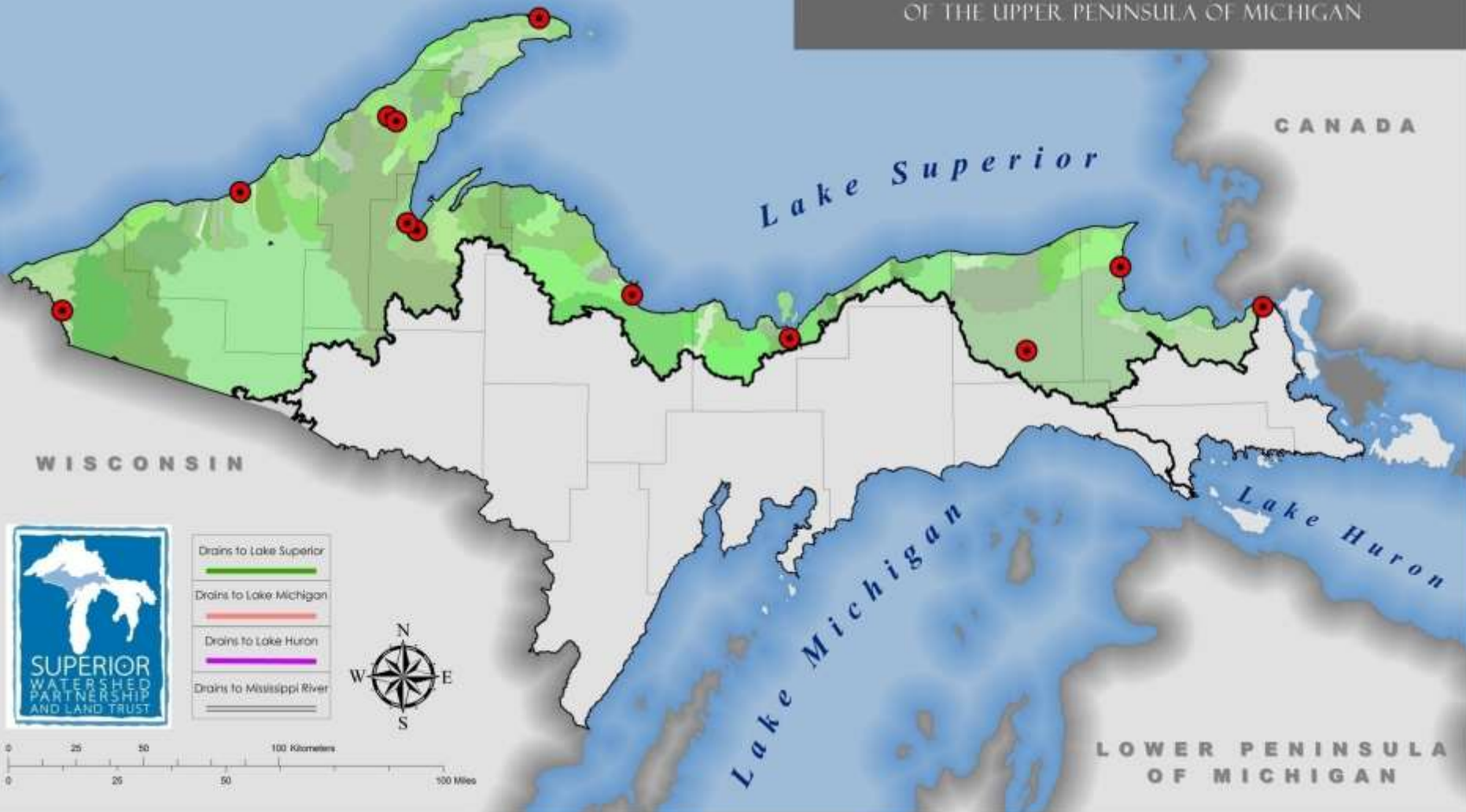


Fig. 8: Goals and Actions for the Lake Superior Watershed Region

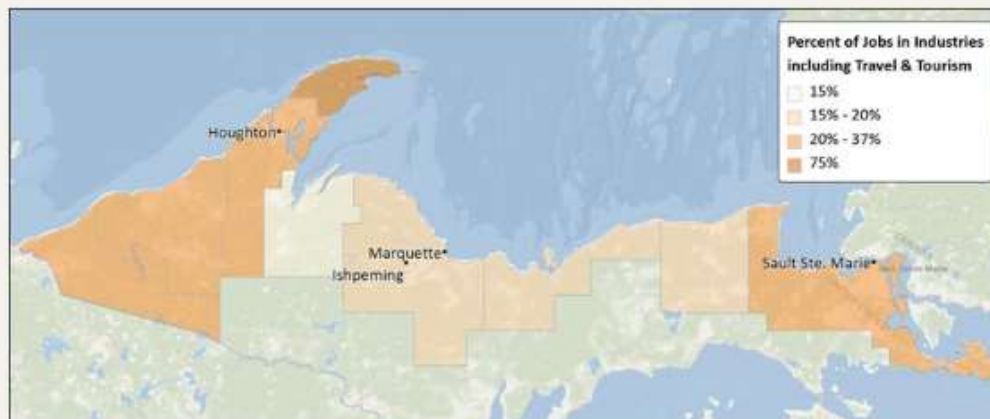
GOALS AND ACTIONS FOR THE LAKE SUPERIOR WATERSHED REGION							
Sector	Goals	Actions	Time Frame	Action Type	Applicable to...		
					Region	Counties	Towns
All Sectors		• Hold meetings with public officials in communities to discuss how they can make climate readiness a routine part of future planning processes.	ST	Outreach	✓	✓	✓
		• Implement monitoring or data collection activities to develop a baseline against which to compare future changes.	ST	Action	✓	✓	✓
Lake Superior (and other water bodies)	Protect the Lake Superior shoreline from damage due to fluctuating lake levels, increased lake storm action, habitat loss, and poorly regulated human development.	• Determine projected changes in water levels and storm surge extents in the area.	ST	Research	✓		
		• Identify and map critical habitat to be protected along the Lake Superior shoreline.	ST	Research	✓	✓	✓
		• Identify beach/dune areas along shore in need of habitat restoration and resilience work. Secure funding to accomplish work.	ST	Research	✓	✓	✓
		• Expand existing programs and create new programs to restrict spread of invasive species in Lake Superior, including zebra and quagga mussels, sea lamprey, and spiny waterflea.	ST	Action	✓	✓	
		• Implement at least one habitat restoration project in each county, incorporating climate change impacts.	ST	Action	✓	✓	
		• Re-establish and maintain physical stability of streams. Protect river corridors and floodplains to accommodate river adjustment and floodplain processes.	ST	Action	✓	✓	✓
		• Remove barriers to aquatic organism passage.	ST	Action	✓	✓	
		• Devise grey water storage and reuse systems to recycle and utilize water resources more efficiently.	ST	Action	✓	✓	✓
		• Research current set-back ordinances and other zoning standards regarding shoreline development. Present recommendations to appropriate governing boards.	ST	Research	✓		
		• Establish shoreline protection zones for new development.	LT	Policy		✓	✓
		• Establish and enforce shoreline setback requirements.	LT	Policy		✓	✓

Travel and Tourism

The UP's reputation as the "Snow Capital of the Midwest" is an economic asset that could be challenged by climate change. Winter recreation based on consistent deep snow and lake ice is sensitive to warming temperatures, less predictable snowpack, and declining ice cover on Lake Superior. Lake Superior moderates winter air temperature over much of the UP and therefore bitter cold is rare. The moderating effect also means that if temperatures go up even slightly, snow will change to rain and create poor conditions for winter recreation.

Many communities rely on income from winter festivals that include snowmobile, nordic and alpine ski events, and dogsled races. In February 2011, the celebrated UP 200, a dogsled race that serves as a qualifier for the Iditarod, was cut short in Alger County due to lack of snow and poor conditions, costing businesses tourism income. In February 2012, poor snow conditions again altered this event. The annual February Michigan Ice Festival in Munising took place with temperatures above freezing, and attendance at the event was down from the previous year.

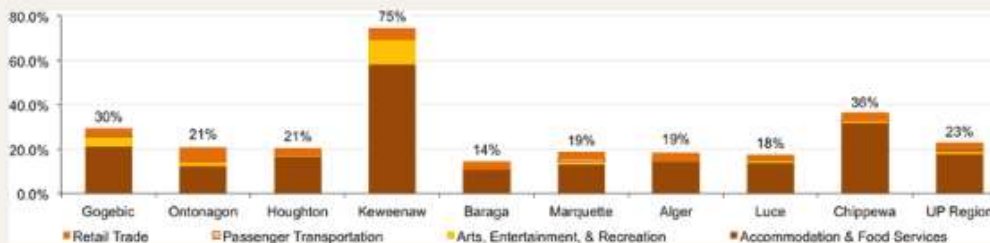
Map 2: Percent of Jobs in Industries that Include Travel and Tourism, 2009

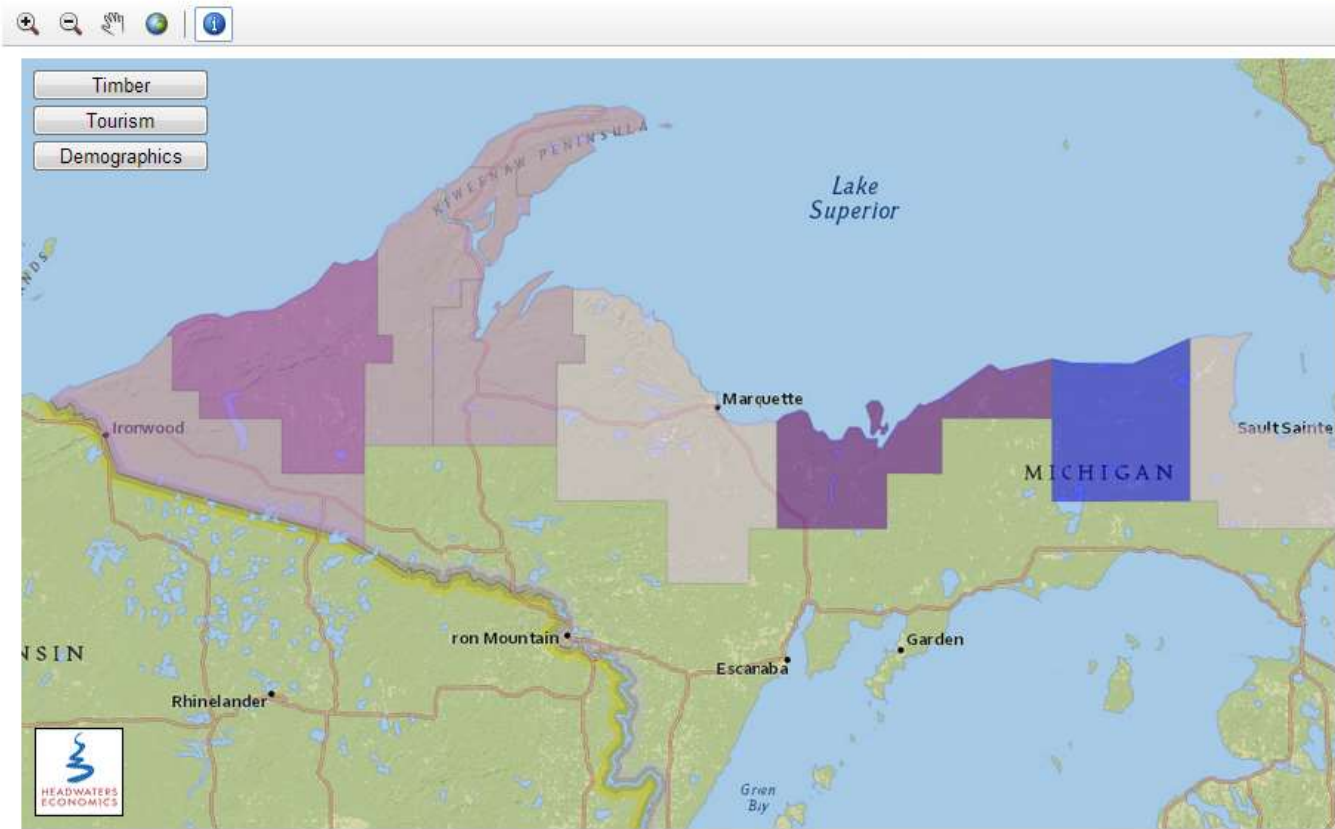


Winter recreation is most important to Gogebic and Ontonagon counties. Winter recreation is important, but balanced with summer tourism opportunities in Marquette, Baraga, Houghton, and Alger Counties. Summer tourism-dependent communities are mainly in Keweenaw, Luce, and Chippewa Counties.

Figure 3 shows jobs in economic sectors that provide goods and services to visitors to the local economy, as well as to the local population. It is not known, without additional research such as surveys, what exact proportion of the jobs in these sectors is attributable to expenditures by visitors, including business and pleasure travelers, versus by local residents. Some researchers refer to these sectors as "tourism-sensitive." They could also be called "travel and tourism -potential sectors" because they have the potential of being influenced by expenditures by non-locals. Here, they are referred to as "industries that include travel and tourism."

Figure 3: Percent of Jobs in Industries that include Travel and Tourism, 2009





Why Is the Timber Industry Sensitive to a Changing Climate?

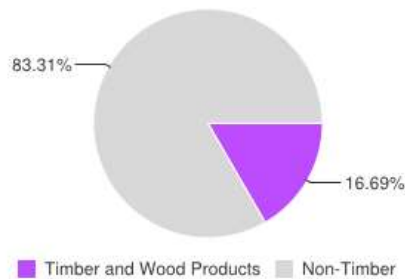
[Great Lakes Climate Information](#)

[The Timber Economy](#)

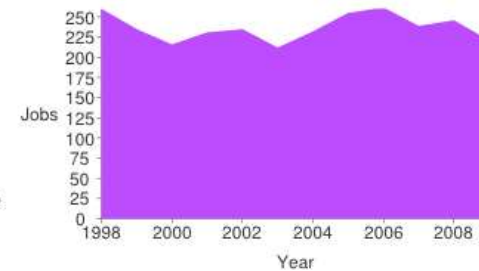
[Adaptation Plan for the UP \(5MB pdf\)](#)

Data source for base map: National Geographic (National Geographic, Esri, DeLorme, NAVTEQ, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, IPC) under CC-by-sa License

Jobs by Sector, Luce County



Jobs in Timber, Luce County



Socioeconomics and Climate Change in the Great Lakes Region




This interactive shows how the social and economic characteristics of the Great Lakes Region are impacted by regionally specific changes in climate. [Related Research »](#)

Economy

Many sectors of the economy can be affected by climate change. Here we show three sectors likely to be affected; we describe which industries employ the most people; and we show historic climate changes.

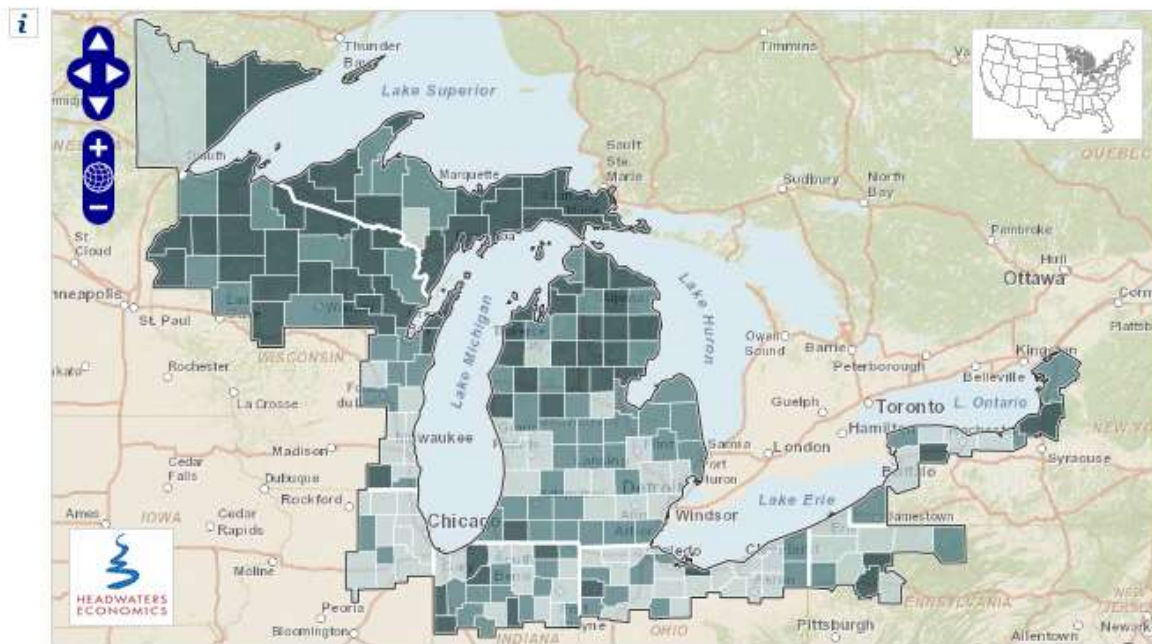
Marquette, MI

Job-Dependence on Climate-Vulnerable Sectors: Farming, Timber, and Tourism

-  Most Dependent
-  Moderately Dependent
-  Least Dependent

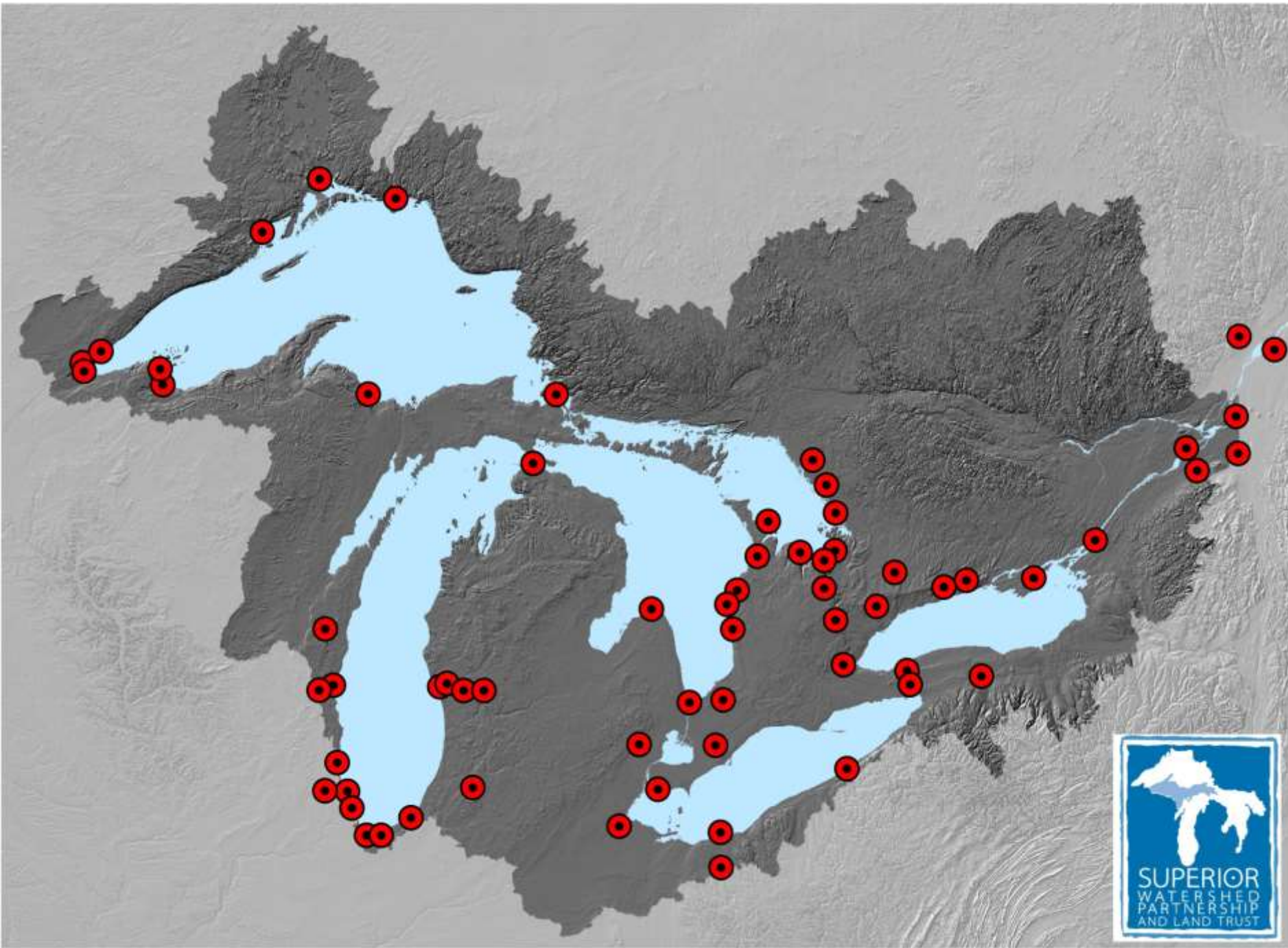
Infrastructure

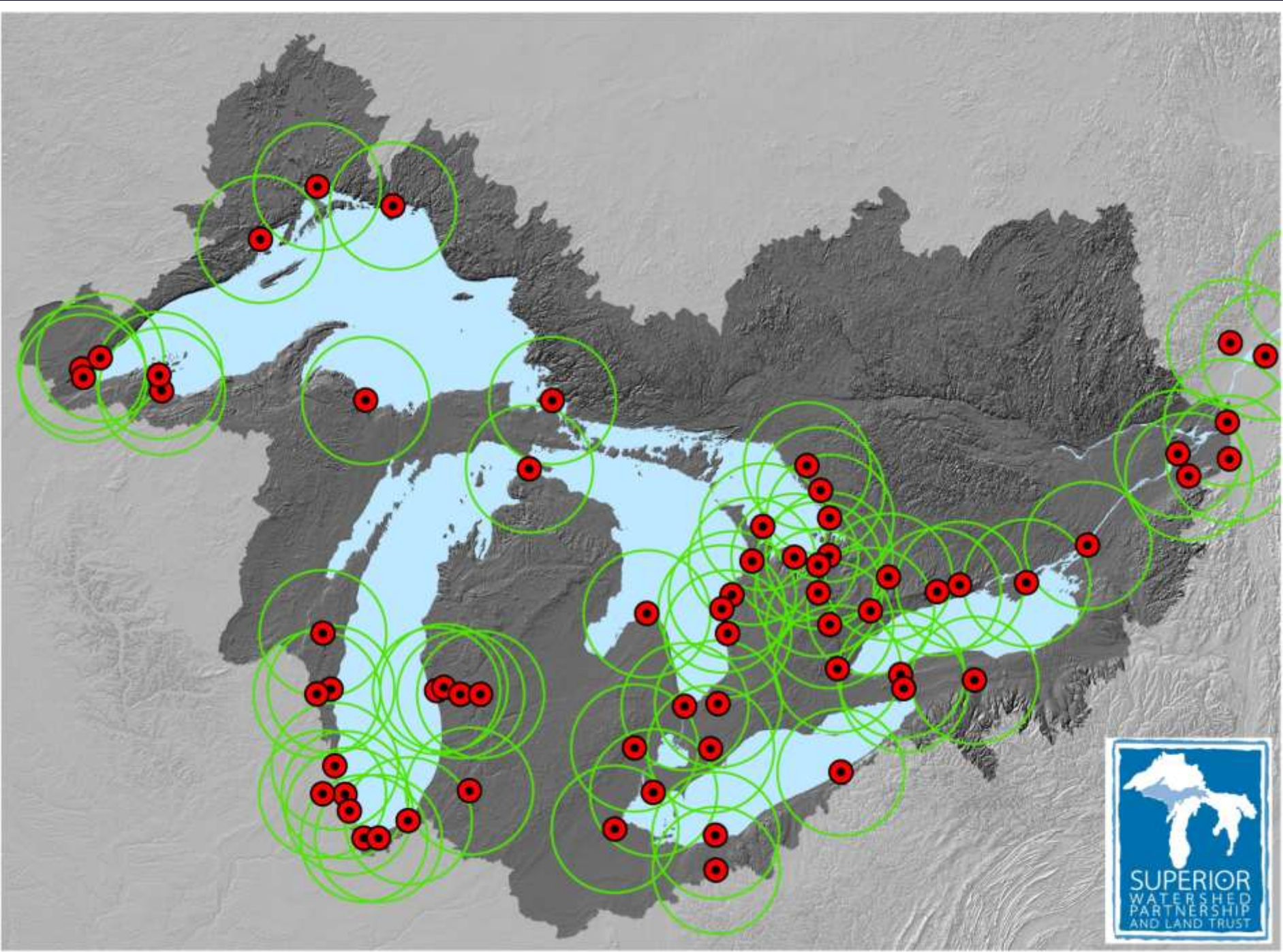
Vulnerable Populations













“It’s not just the big cities where change is happening. It’s also in towns like Marquette...where our future will be won”.

~President Obama in Marquette, February 10th, 2011



CLIMATE SUMMIT

WHAT IF IT'S
A BIG HOAX AND
WE CREATE A BETTER
WORLD FOR NOTHING?

- ENERGY INDEPENDENCE
- PRESERVE RAINFORESTS
- SUSTAINABILITY
- GREEN JOBS
- LIVABLE CITIES
- RENEWABLES
- CLEAN WATER, AIR
- HEALTHY CHILDREN
- ETC. ETC.



12/19 USA TODAY

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