

Wisconsin's GREAT LAKES!

2014-2015 CALENDAR

Wisconsin Department of Natural Resources | Office of the Great Lakes



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Wisconsin is defined by its waters, including two of Earth's largest lakes — Lake Michigan to the east and Lake Superior to the north. We are fortunate to be able to enjoy all that these world-class resources have to offer. We can take in the beauty of a sunset on the shores of an inland sea, fish the tributaries that feed these lakes, paddle the wetlands that surround them and view the diversity of creatures they support.

The Great Lakes region is home to some of North America's most impressive mammals — grey wolf, moose, Canada lynx, river otter and beaver. This region is also important to many species of migratory and resident birds, especially waterfowl, birds that nest in colonies, and neotropical migrants. Bald eagles, common terns, piping plover, common loons, and Kirtland's warbler are among the species that breed, feed or rest here during migration.

Native muskellunge, walleye, northern pike, yellow perch, lake sturgeon, whitefish, and introduced salmon species can all be found here, making our Great Lakes an angler's paradise.

In the sidebars of this year's calendar, we touch on some of our Great Lakes' natural wonders. From Lake Superior's spectacular sea caves to Lake Michigan's rolling dunes, there is much to see and do. Discover Wisconsin's Great Lakes — observe, explore and enjoy!

Great Lakes Fun Facts

- Wisconsin boasts 1000 miles of Great Lakes shoreline.
- Lake Superior is the world's largest lake (in surface area).
- Wisconsin's tallest sand dunes can be found at Whitefish Dunes State Park; the longest stretch of dunes at Kohler-Andrae State park, both on Lake Michigan.
- Right off Bayfield, 21 islands are designated as the Apostle Islands National Lakeshore.
- Fishing spiders can walk on water.
- When lightning strikes a beach, a fulgurite (hollow glass tube made of fused sand) can form.
- More than 180 invasive species of plants and animals have been introduced into the Great Lakes.
- Lake sturgeon can grow to 6 feet and 200 pounds; females can live 150 years.

"Bury my bones by the trees, where the apple blossoms bloom in the cool lake breeze, where time stands still, on the old iron bridge, where Gitche Gumee lies, that is where my heart lives. Up the road on the hill, as grand as the new found day, wills first light of early morning, and a compass point North way. To God's Country — that is where I wish to spend my time away. Beneath the star lit skies, watching over the Apostle Islands below, heaven awaits for me if you could make this so."

- Tom Nimsgern

*Look deep into nature,
and then you will
understand everything better.*

- Albert Einstein

Wisconsin DNR's Office of the Great Lakes is pleased to present our annual *Wisconsin's Great Lakes* calendar. We hope this calendar will be a daily reminder of how magnificent Wisconsin's Great Lakes are and how we can all help protect them. The calendar is a collection of photos from our 2014 photo contest, poems submitted by Wisconsin authors, lake information and fun facts, and some simple steps all of us can take to help protect these unique and beautiful resources.

Photographers from Wisconsin and beyond submitted over 500 beautiful photos for this year's contest. Wisconsin authors contributed a lovely collection of poems and essays to our Great Lake Writing Project. As the photos and writings clearly show, the Great Lakes are among Wisconsin's most scenic and beloved natural resources.

Thank you to all 2014 photographers and authors for sharing your talent with us!

Visit the Office of the Great Lakes website to see more photos and writing submissions. dnr.wi.gov (Search: *photo and writing submissions*)

THE WISCONSIN DNR IS ON:



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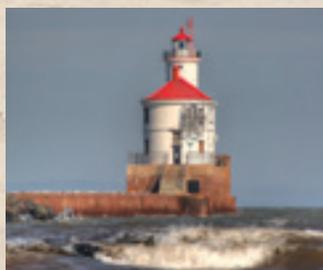
www.youtube.com/user/WIDNRTV



www.pinterest.com/WIDNR/



www.flickr.com/photos/widnr/



Nestled between two of Earth's largest lakes and the Mississippi River, Wisconsin is a unique place in the world. We enjoy access to 20% of the world's fresh surface water and all of the natural wonders that come with it. Our opportunities for recreation and enjoyment of these world-class resources are endless. I invite you to discover and enjoy everything our Great Lakes have to offer.

- Governor Scott Walker



Background Photo by Scott Pearson



I love to explore and share our Great Lakes natural areas. Crashing waves, serene sunsets, glistening ice caves, shifting sand dunes, beautiful migratory birds, and magnificent lake sturgeon are just a few of the treasures you can find here. Wisconsin state parks and state natural areas, county parks, and the Apostle Islands National Lakeshore offer many opportunities to enjoy our Great Lakes and their rivers, wetlands and shorelines. Visit a lakeshore park and let the adventure begin!

- Cathy Stepp, DNR Secretary



Background Photo by Glenn Marcell



Wisconsin residents and visitors alike find immense joy in recreating on the Great Lakes — from catching the "big one" on a Lake Superior charter boat to enjoying a quiet stroll on a Lake Michigan beach. Careful management is the key to maintaining the recreational value of these resources. We are thankful for our many partners in this important effort — federal and state agencies, local and tribal governments and private businesses and industries. Together we can protect and restore these magnificent resources and enhance our enjoyment of their many treasures.

- Ken Johnson, DNR Water Division Administrator and Great Lakes Commission Chair



Background Photo by Bob Ford

2015 "Wisconsin's Great Lakes" Photo Contest

Send us your best photos of Lake Michigan or Lake Superior. We're looking for beautiful shorelines, kids and adults enjoying the lakes, cultural and historic aspects of the lakes, and people involved in lake protection or restoration of Wisconsin's Great Lakes. Winning photos will be used in the 2015-2016 *Wisconsin's Great Lakes* calendar and in other DNR publications, presentations, websites and displays. Photo submission deadline is February 1, 2015. **Photos of all seasons are needed!**

Entry Categories (limit three photo entries per individual):

- 1. People enjoying Wisconsin's Great Lakes.** Images of people fishing, canoeing, sailing, playing on the beach, etc.
- 2. Natural features and wildlife.** Great Lakes shorelines, wetlands and tributaries, fish and other wildlife.
- 3. Historic and cultural features.** Lighthouses, harbor towns, festivals, etc.
- 4. Lake protection activities.** Storm drain stenciling, beach clean-ups, sturgeon guards, habitat restoration, research, etc.

Rules and instructions:

The contest is open to anyone. Photos must be submitted electronically.

- 1.** Attach each photo (jpeg format) to a separate e-mail.
- 2.** In each e-mail, please include the photo title, where in Wisconsin the photo was taken, the entry category, your name, e-mail address, mailing address and phone number. *Photos must be high resolution and horizontal in orientation.*

- 3.** The Wisconsin DNR reserves the right to use an electronic or print copy of any image entered in the contest for non-commercial educational or promotional use with credit to the photographer. For example, prints may be used for DNR displays, slide shows, videos, publications and website.

Judging:

Photos will be judged by a panel of Wisconsin DNR staff. Criteria for judging will include creativity, visual and technical merit, and composition.

Awards and Prizes:

Winning photographs will be included in the 2015-2016 Wisconsin's Great Lakes calendar. Winning photographers will be contacted by mail, phone or e-mail and will receive the calendar by mail.

E-mail photos and entry information to: DNRGreatLakesPhotoContest@wisconsin.gov.

"Wisconsin's Great Lakes" Writing Project

Is your talent writing? Send us your original Great Lakes quote, essay, poem, song or rap. Help get the word out about how great Wisconsin's Great Lakes are. Share your favorite writings with us and you may find your words on our website, calendar, publications and displays! (All authors will be credited.) Deadline February 1, 2015.

E-mail writings to: DNRGreatLakesWriting@wisconsin.gov.



ABOVE: "A Storm is Coming"
by **NICOLE TUFFORD**
Racine, WI

September 2014

Two Great Lakes
By **Patricia Williams**

Of five Great Lakes glacier-formed in the last ice age, two contour Wisconsin's margins:

Superior, surface size of South Carolina, gichigami or 'great sea' to Ojibwa population; Michigan, sole one among the Greats not shared with northern neighbors, area somewhat less than West Virginia.

Wave-washed beaches, lofty bluffs, dunes and birch-filled shorelines, coast home to slipper orchids; far side too distant to see. Jade-like chain of island jewels, yellow perch, and bankside grasses, alive in liquid crystal;

inland seas with shifting moods and awful power; untold ships consumed.

Background Photo by **Cheryl Barrett**
Photo by **Karen Gersonde**



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ABOVE: "Cana Island Lighthouse"
 by **CHRIS MILLER**
 1st Place – Cultural & Historic Features
 Cana Island, WI

October 2014

Of Sand and Wind

Sand dunes are a work in progress, constantly moved and sculpted by the wind. When the wind blows across the smooth surface of Lake Michigan, there's little to hinder its momentum. As it reaches the shore, it picks up grains of sand, pushing them inland. As the wind velocity slows, the sand drops to the earth, a pile forms, and a sand dune is born.

Over time, wind blows sand grains up the gently sloping upwind face of the dunes, piling them higher. Once cresting the top, the wind moves down the steeply sloping backside. This creates momentum for the wind to pick up sand grains and continue inland. The wind speed slows once again and sand drops to earth, beginning another sand dune, and the process starts over.

To learn more, visit dnr.wi.gov
 (Search: *Whitefish Dunes State Park*)

Whitefish Dunes and Kohler-Andrae State Parks are great places to explore Lake Michigan's sand dunes.
dnr.wi.gov (Search: *find a park*)

Photo by Cheryl Barrett

SUNDAY

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SATURDAY



Photo by Chuck Miller

SEPTEMBER 2014

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Yom Kippur Begins at Sundown

Columbus Day

Clean Water Act Signed in 1972

Halloween



ABOVE: "Bald Eagles"
by **REGGIE GAUGER**
Sheboygan, WI

November 2014

Seiches, Surges and Edge Waves

Great Lake waves can be both beautiful and dangerous. There are three main types of waves. A **seiche** (pronounced "saysh") is a rise or drop in Great Lakes water level caused by local atmospheric disturbances. This large scale sloshing can last up to eight hours and can cause repeated flooding of the coastline. Small seiches occur every day and go mostly unnoticed.

A **storm surge** is a temporary change in water level caused by storm winds. Water is pushed along by winds and can pile up along coastlines, raising or lowering water levels. Surges last as long as the strong winds driving them.

An **edge wave** is caused by large storms some distance away. Because there is no local weather cue, edge waves can be unexpected and dangerous for those along the coast.

To learn more, visit www.seagrant.wisc.edu (Search: *storm surge*)

For animated wave diagrams, visit earthguide.ucsd.edu (Search: *seiche* or *wind wave*)

Photo by **Bill Carroll**

SUNDAY

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Photo by **Chris Muller**

OCTOBER 2014						
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Photo by **Martha Trowe**

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Daylight Savings
Time Ends



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Edmund Fitzgerald
Sinks in Lake Superior
in 1975

Veteran's Day



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Thanksgiving Day





ABOVE: "Cold Morning"
by **CHRIS GAZIANO**
Milwaukee, WI

December 2014

Household Chemicals

Many chemicals that we use in our homes cannot be removed by water treatment facilities and can end up in our lakes, streams and drinking water. Some of these chemicals have serious health effects on aquatic wildlife. Microbeads (tiny plastic beads) from a variety of personal care products have recently raised concern because they have been found in the Great Lakes. The microbeads have replaced ground walnut shells, sea salt, and other natural materials as an abrasive in many personal care products. Once in the water, microbeads may collect toxins and can be mistaken for food by small fish and wildlife.

- Keep household chemicals out of our waters:
- Use medicines as directed and take any remaining pharmaceuticals to local medicine disposals.
 - Consider healthier alternatives to home, yard and personal care products.
 - Use up personal care products when possible.
 - Properly dispose of all leftover chemicals. Never flush them down the toilet or pour them down the sink, storm drain or on the ground. Check for Clean Sweep events in your area.
 - Recycle or properly dispose of old computers and other electronic equipment.

To learn more, watch this video by the Northwest Wisconsin Regional Planning Commission www.nwrpc.com/mediacenter.aspx?VID=1

Medicine disposal and electronics recycling: dnr.wi.gov (Search: *pharmaceuticals* or *ecycle*)

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7	8 Great Lakes Compact Enacted in 2008	9	10	11	12 Great Lakes Restoration Strategy Released in 2005	13 Great Lakes Compact Signed by Governors in 2005
14	15	16 Hanukkah Begins at Sundown	17	18	19	20
21 Winter Begins	22	23	24	25 Christmas Day	26 Kwanzaa Begins	27
28	29	30	31 New Year's Eve			<p>JANUARY 2015</p> <p>S M T W T F S</p> <p>1 2 3</p> <p>4 5 6 7 8 9 10</p> <p>11 12 13 14 15 16 17</p> <p>18 19 20 21 22 23 24</p> <p>25 26 27 28 29 30 31</p>

Photo by Linda Geier



ABOVE: "Ice Formation"
by **CHUCK GERMAIN**
Cave Point Co. Park

January 2015

Awesome Ice

Lake ice is amazing! Depending on conditions, ice can take many different forms. Pancake ice can form when temperatures are around freezing and waves are large enough to agitate and break up large sheets of ice. New ice builds up around each broken piece, creating icy "lily pads" or "pancakes."

Ice balls form when ice is broken into small pieces and moved back and forth by waves, slowly collecting more ice in layers (kind of like rolling a snowball). Sometimes very large balls or "ice boulders" can form.

Watch ice boulders along the Lake Michigan shore: www.itv.com/news/update/2014-01-09/giant-ice-boulders-found-on-lake-michigan-shore-as-polar-vortex-persists/

For more information on ice science, recreation, hazards and tips for staying safe on the ice: lakeice.squarespace.com/

I go to nature to be soothed and healed, and to have my senses put in order.

-John Burroughs, American Naturalist and Essayist

Photo by **Inge Harris**

SUNDAY

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FRIDAY

SATURDAY



Photo by **Ema Carroll**

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Martin Luther King Day

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Remember to submit your best Great Lakes photos and writings!
See information on the first pages of this calendar.
The deadline is February 1, 2015.



ABOVE: "Ice Boats"
by **BRENT WINEBAR**
Green Bay, WI

February 2015

Ancient Treasure

Lake sturgeon were once threatened by habitat loss and overfishing. Now, their numbers are on the rise in Wisconsin thanks to careful management, captive rearing and habitat restoration. (Lake Winnebago has the largest lake sturgeon population in the world!)

A torpedo shaped body, greenish grey color and bony plates give the sturgeon a prehistoric look. In fact, the sturgeon is a remnant of a family of fish that has existed for more than 135 million years! Females can grow to more than 6 feet in length and can weigh 200 pounds. Despite their intimidating size, lake sturgeon are gentle giants. They feed on bottom dwelling invertebrates (clams, snails and insect larvae) and fish eggs, which they find with whisker-like organs called barbels.

The lake sturgeon is the longest lived and slowest maturing freshwater fish. Males mature at 15 years and can live 55 years; females mature at 25 years and can live 150 years. Females spawn once every 4-8 years and males every 1-2 years. On several Wisconsin rivers, volunteer sturgeon guards keep watch over these magnificent fish during spawning to protect them from poachers.

For information on sturgeon or becoming a sturgeon guard, visit **dnr.wi.gov** (Search: *critter corner sturgeon* or *sturgeon guard*)

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Valentine's Day

President's Day

Chinese New Year



Photo by Philip Schwarz

JANUARY 2015

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Photo by David Ming

MARCH 2015

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ABOVE: "Wildwood Island Before and After"
 by **DEBBIE BEYER**
 1st Place – Lake Protection Activities
 Sheboygan, WI

March 2015

Celebrate Fix a Leak Week

The average household wastes more than 10,000 gallons of water every year through easy-to-fix leaks. That's enough water to wash nearly 10 months' worth of laundry! Fixing household water leaks can save homeowners more than 10% on their water bills.

A leaky toilet can waste up to 200 gallons of water per day. That is a lot of money down the drain! Check your toilet for silent leaks:

- Put a few drops of food coloring into the tank of your toilet.
- Wait 15 minutes without flushing. If colored water appears in the bowl during that time, you have a leak.
- Make sure to flush the colored water as soon as the test is done. Food coloring can stain.

Be sure to also check for dripping faucets, showerheads and fixture connections. Check irrigation systems and outdoor spigots, too!

To learn more:
dnr.wi.gov (Search: *fix a leak*)
www.epa.gov/watersense/our_water/fix_a_leak.html

Photo by **Gervase Thompson**



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Photo by **Gervase Thompson**



ABOVE: "Path to Sunrise"
by **JEFFREY EWIG**
Kohler-Andrae State Park

April 2015

Great Migration

The shorelines of our Great Lakes offer wonderful bird watching opportunities, especially during migration. In the spring and fall, millions of birds fly thousands of miles to and from breeding grounds in Wisconsin and beyond. Migration is difficult and dangerous and mortality is the highest of the year during this time. Survival depends on healthy "stopover" habitat. Wetlands, open water and woods along the lakes provide protection and food which allows birds to rest and refuel. But this important stopover habitat has been degraded and fragmented and some bird populations are in decline.

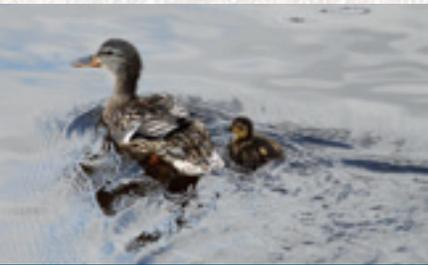
Protecting and restoring habitat is critical for our migratory birds. The Wisconsin Stopover Initiative was launched in 2005 to protect migratory stopover sites, especially along the Great Lakes. To find out more about this effort and how you can help, visit:

**[www.wisconsinbirds.org/
Migratory/](http://www.wisconsinbirds.org/Migratory/)** **dnr.wi.gov**
(Search: *respites for migratory birds*)
<http://youtu.be/MpzD6z-LTC0>

Interactive habitat maps
glmigratorybirds.org

Wisconsin's Bird Cities:
www.birdcitywisconsin.org

Photo by **Holy Gertz**



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ABOVE: "A Hidden Gem"
 by **SHERI ERICKSON**
 1st Place – Natural Features & Wildlife
 Cornucopia, WI

May 2015

Lakeshore Parks

Our lakeshore state parks are great places to experience the natural wonders of the Great Lakes. Hike, bike, swim, camp or attend a nature program at these beautiful parks: Big Bay (on Lake Superior), Rock Island, Peninsula, Newport, Kohler-Andrae, Whitefish Dunes, Harrington and Lakeshore (all on lake Michigan).

To find a park or a nature program, **visit dnr.wi.gov** (Search: *find a park or get outdoors*)

State forests, county parks and national lake shores can also be found along our Great Lakes. Some favorites to explore: Point Beach State Forest, Cave Point County Park and the Apostle Islands National Lakeshore. (Remember to bring your camera!)

And this, our life, exempt from public haunt, finds tongues in trees, books in the running brooks, sermons in stones, and good in everything.

- William Shakespeare

Photo by **Andrew Jalbert**

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY



Photo by **Glenn Mancel**

APRIL 2015						
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Photo by **Terry Ann Morris**

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Memorial Day



ABOVE: "Footloose & Fancy Free"
by **CHRIS KUHLLOW**
Newport State Park

June 2015

Take Technology Outdoors

Kids are growing up in a technological world and it's often hard for them to break away from their electronic devices. So bring your technology along on an outdoor adventure! A digital photo scavenger hunt or geocaching with a GPS and digital maps can help engage a young (or not-so-young) technology lover.

Check out the many free fun apps for smart phone users. Here are a few examples:

- Project Noah – wildlife viewing
- Oh, Ranger! – parks and outdoor activities
- Geocaching.com – finding and logging geocaches
- Chirp! Lite – bird songs
- Planets – solar system
- Skyview – star gazing
- Pocket Ranger – hunting, fishing, and wildlife viewing **dnr.wi.gov**
(Search: *mobile apps*)

Check out some frog calls before you go out at **dnr.wi.gov/eek** (Search: *frogs*)
For more ideas, visit **www.nwf.org**
(Search: *digital age*)

Photo by **Colette Broadway**



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
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Photo by **Michael Bradley**



ABOVE: "Angry Bird"
by **MARK STRAUB**
Milwaukee, WI

July 2015

Fulgurites

It happens in a flash. Lightning strikes a beach and a rare oddity forms – a fulgurite. From fulgur, Latin for lightning bolt, fulgurites are also known as “petrified lightning.” These hollow glass tubes form when temperatures of at least 3,270 °F melt silica and fuse grains of sand. Fulgurites can be several centimeters thick and are often long and branched, like a root.

While gnarly, grainy and not much to look at on the outside, fulgurites are lined with smooth glass on the inside. Fulgurites are resistant to weathering and can last thousands of years if undisturbed, but they are delicate to the touch and must be handled very carefully to avoid breaking.

Look for fulgurites on our Great Lakes beaches (look for puckers in the sand or irregular rocks), or see one on display at Kohler-Andrae State Park near Sheboygan.

Like music and art, love of nature is a common language that can transcend political or social boundaries.

– **Jimmy Carter**

Photo by **Stephanie Stevens**



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ABOVE: "Dragon Boats"
by **PHILIP SCHWARZ**
2nd Place – People Enjoying
Wisconsin's Great Lakes
Barker's Island, WI

An ancient Chinese tradition takes place on Lake Superior in late August when the Superior and Duluth Rotary clubs hold their annual Dragon Boat festival. During the festival, teams race colorful dragon-shaped boats to raise funds for local charities and organizations. For information, visit lakesuperiordragons.com

The Fairlawn Mansion and Museum pictured in the background was the family home of lumber and mining baron Martin Pattison.

The Harbor
By **Annette Clark**

at the touch of the breakwater, flaming sun-kissed waves are tamed
slower among the bay, waters flow into slips and to cradle sailboats
docks filled in bays and at the shores for fishing, festivals and more –
seagulls and good friends flock to take in grand Lake Michigan

Photo by **Dan Fearing**

August 2015

SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY



Photo by **Patty Keuck**

JULY 2015						
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Photo by **Annette Knapstein**

SEPTEMBER 2015						
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Wisconsin State Fair Begins
Pick up your 2015
Great Lakes Calendar! ☾

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Wisconsin State Fair Ends ☽

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ABOVE: "Little Sand Bay Sunset"
 by **ANDREW JALBERT**
 2nd Place – Natural Features & Wildlife
 Little Sand Bay, WI

September 2015

Fishing Spiders

With a leg span up to three inches, a fishing spider can startle an unsuspecting boater as it scurries across the dock. But no worries. Wisconsin's three species of fishing spiders (genus *Dolomedes*) are harmless to humans.

These fascinating spiders can "skate" across the water or dive beneath the surface to capture prey. Each of the spider's legs is tipped with hydrophobic fluid that repels water and its feet create tiny dimples on the water's surface. Hairs on the spider's abdomen trap a silvery bubble of air that allows the spider to submerge for up to 30 minutes. Fishing spiders eat mainly aquatic insects, but sometimes dine on small tadpoles or fish.

To learn more dnr.wi.gov
 (Search: *dockside hunters*)

Video of fishing spider hunting fish: www.youtube.com/watch?v=hgUnRRRep5YQ



Photo by **Michele Thielke**



SUNDAY

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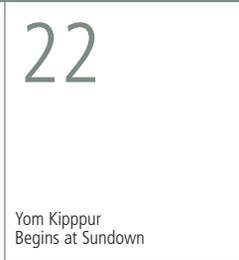
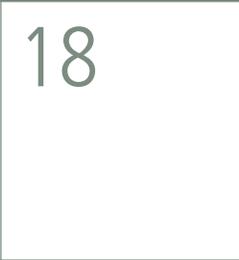
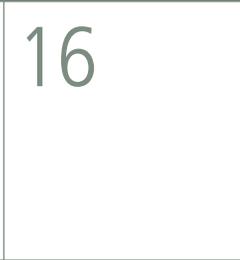
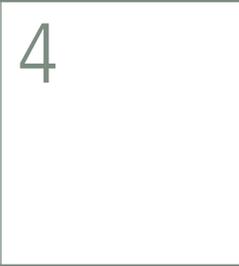
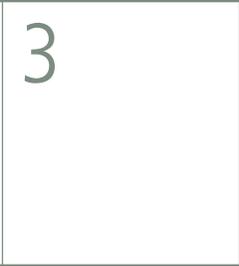
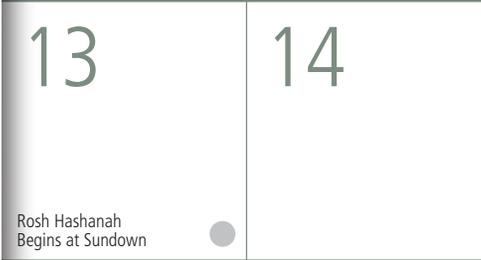
THURSDAY

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Photo by **Gervase Thompson**



AUGUST 2015

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Photo by **Jill Schless**



ABOVE: "A Retired Eagle"
 by **SHERI ERICKSON**
 2nd Place – Cultural & Historic Features
 Cornucopia, WI

October 2015

Sea Caves

Centuries of wave action, freezing and thawing have sculpted the beautiful sea caves of Wisconsin's Apostle Islands. The delicate sandstone arches, chambers, and honeycombed passageways formed by these forces can be seen on Devils Island, Sand Island, and in places along the mainland.

The sea caves draw thousands of visitors each year to view the beautiful red rock against the intense blues of Lake Superior and the rich greens of the north woods. The caves can be seen by boat or kayak in the warm months and on foot some years in the winter when the caves are transformed into spectacular ice caves. During the winter of 2014, favorable conditions allowed more than 100,000 visitors to enjoy the ice caves. Since the caves can be hazardous in all seasons, take care to check local conditions before you visit.

To learn more, visit www.nps.gov/apis/naturescience/caves.htm

Time lapse video of 2014 visitors to the Apostle ice caves:
<http://vimeo.com/87638069>

Photo by **Deborah AZ Johnson**

SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY



Photo by **Edward Deiro**

SEPTEMBER 2015							NOVEMBER 2015								
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Clean Water Act
 Signed in 1972

Columbus Day

Halloween





ABOVE: "Blue Hour Hoan"
by **EDWARD DEIRO**
Milwaukee, WI

November 2015

Magnificent Morphing By **Karen Gersonde**

Great Lakes are jagged shorelines, sandy beaches, rocky beaches, no beaches. High cliffs, no cliffs, rolling hills and steep ravines.

Trees and vegetation dot the shores, Numerous fish call these waters home. Fox, raccoons, squirrels, and rabbits, delight on the water's edge. Birds fly above, dive in, catch dinner, fly away.

Children play in the sand, in the water, with each other, and alone. Grandma sits, mother watches, dad fishes... families enjoying the lakes.

Water...friendly, evil, calm, beautiful, mean, sparkling, murky, turquoise, blue. Crashing waves, white caps, no caps, ripples, serene.

The Great Lakes are all of these – always changing, always morphing, always Great!

When you've come to the end of the road, step into the wilderness and you'll find where the road was leading.

-Submitted by **Tom Nimsgern**

Photo by **Jim Lundstrom**

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
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ABOVE: "Light Meets Lighthouse"
by **AARON LEIST**
Algoma, WI

December 2015

Climate Time Machine

Do you ever wonder what Wisconsin's climate will be like 70 years from now? Scientists with the Wisconsin Initiative for Climate Change Impacts (WICCI) have produced an interactive map — a visual time machine of sorts — that can give us a glimpse of Wisconsin's future climate. While the climate models used to build the map differ somewhat in their predictions, all foreshadow a warmer future climate. A warmer climate will bring changes in Wisconsin's plants, fish, wildlife, crops, invasive species and disease.

See WICCI's interactive map at www.wicci.wisc.edu/climate-map.php

To learn more about climate change and its possible effects on Wisconsin fishing, shipping, sugaring, forestry, skiing, phenology and urban environment, visit climatewisconsin.org/

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		1 <small>Photo by David Herrick</small>	2	3 	4	5																																																																																																	
6 <small>Hanukkah Begins at Sundown</small>	7	8 <small>Great Lakes Compact Enacted in 2008</small>	9	10	11 	12 <small>Great Lakes Restoration Strategy Released in 2005</small>																																																																																																	
13 <small>Great Lakes Compact Signed by Governors in 2005</small>	14	15	16	17	18 	19																																																																																																	
20 <small>Photo by Aaron Leist</small>	21	22	23	24	25 <small>Christmas Day</small> 	26 <small>Kwanzaa Begins</small>																																																																																																	
27	28	29	30	31 <small>New Year's Eve</small>	<p>NOVEMBER 2015</p> <table border="1"> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr> <tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr> <tr><td>29</td><td>30</td><td></td><td></td><td></td><td></td><td></td></tr> </table>	S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						<p>JANUARY 2016</p> <table border="1"> <tr><th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>2</td></tr> <tr><td></td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> <tr><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td></td></tr> <tr><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td></td></tr> <tr><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td></td></tr> <tr><td>31</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	S	M	T	W	T	F	S							1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16		17	18	19	20	21	22	23		24	25	26	27	28	29	30		31							
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"The ultimate test of a man's conscience may be his willingness to sacrifice something today for future generations whose words of thanks will not be heard."

GAYLORD NELSON

former Wisconsin governor and co-founder of Earth Day



Photo by Amy Callis



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