

# Ashi-niswi giizisoog (Thirteen Moons)

## Manidoo-giizis

*Gichi-Manidoo-giizis is the Great Spirit Moon. The new moon begins January 5. Other names for this moon are Maajii-bibooni-giizis, the Start of the Winter Moon; Oshki-bibooni-giizis, New Winter Moon.*

## Aquatic invasive species in the winter?!

By **George Knutson**,  
MN GreenCorps Service Member

**B**oozhoo! Many of you probably know about aquatic invasive species (AIS). For those who don't, here is a quick reminder on the subject. AIS are aquatic organisms that invade ecosystems beyond their natural, historic range. AIS harm native ecosystems and commercial, agricultural, and recreational activities. AIS can also harm human health. Some common AIS are zebra mussels, Asian carp, spiny water flea, Chinese mystery snail, and Eurasian

water milfoil. While spring, summer, and fall are usually the time when the risk for AIS spread is at its peak and prevention efforts like staffing boat launches are underway, it doesn't mean that spreading can't and doesn't occur during the winter months. The potential for spreading AIS may decrease in winter months with some species due to hibernation, dormancy, annual life cycles, etc. However, there are still definite instances where AIS can be spread on equipment and/or via bait buckets.

Some of you may still be thinking, "There's no way AIS

can be spread when lakes are covered with ice. And even if it could, it wouldn't affect anything once it warms up because the species can't survive the cold." Unfortunately, some invasive species are very resilient to cold temperatures and survive through the winter. Furthermore, invasive species are usually the first active in the spring which can lead to further spread and dominance over native species. For example, let's take a quick look at Eurasian water milfoil (EWM).

EWM is an invasive plant species that can be mistaken for many native beneficial water milfoils found in Minn. lakes. It only takes a single plant fragment to start a new population of EWM. It can survive over the winter with an overwintering bud called a turion. One way to tell if something may be invasive is they tend to be the only remaining living vegetation while natives have died off (Like the terrestrial invasive species Buckthorn. It is usually still green while other trees have lost their leaves).

Once spring hits, EWM will re-appear before any native vegetation giving it a head start to the growing season and may lead to it out-competing native vegetation. EWM is just one example of AIS. There are many others that negatively affect our native ecosystems, including all the ones listed at the beginning of this article.

To stop the spread of AIS, remember that the two main ways AIS is spread is via equipment and bait buckets. Follow these tips to prevent spreading AIS this winter:

Inspect and clean all equipment before taking it to a new water body. Even if you haven't touched any of your equipment since fall, you still need to inspect and clean off all of your equipment before bringing it to any water body. Be on the lookout for any pieces of plant matter and muddy debris which could carry animal or zebra mussel larvae. Even if you don't plan to do any ice fishing this winter, it's a perfect time to take a look at your equipment to see if any mussels, snails, vegetation, or other things are attached to it, so when spring rolls around, you know your equipment is invasive species free. If you do find anything, please contact Fond du Lac's Invasive Species

Coordinator, Kelsey Wenner. Kelsey's contact info is listed at the end of this article.

Bait buckets. Do not transfer live bait such as crayfish, minnows, night crawlers, etc. which can be invasive species themselves, but can also carry invasive disease such as viral hemorrhagic septicemia (VHS) which is deadly to fish. One such species is the invasive carp, which can easily survive through the winter and could be transported via bait buckets on accident. Purchase bait from a local, licensed bait dealer and properly dispose of bait before heading to new water bodies.

Please contact Kelsey Wenner, Fond du Lac's Invasive Species Coordinator, if you have any questions or need help identifying a species on your equipment or at water bodies you visit: (218) 878-7147 and [KelseyWenner@fdlrez.com](mailto:KelseyWenner@fdlrez.com).

Reminder: Fond du Lac is hosting the We Are Water MN exhibit this spring. The dates are March 10th through April 22nd at the Great Lakes Aquarium in Duluth. Information on events and activities will be sent out closer to the start date. If you have any questions, please contact FDL Resource Management at (218) 878-7101.

**Fond du Lac Band of Lake Superior hosts**

**WE ARE WATER**

**WHEN: MARCH 10<sup>th</sup> - APRIL 22<sup>nd</sup>, 2019**

**WHERE: GREAT LAKES AQUARIUM, DULUTH MN**

**CONTACT:**

**FOND DU LAC RESOURCE MANAGEMENT**

**218-878-7101**

☒ Listen to stories from the Fond du Lac community about what water means to them. ☒  
-MN Humanities Center

Learn from others how water affects us all in our daily lives and what we can do to protect it.

☒ Explore connections between the humanities and water through hands-on exhibits, events, and activities. ☒  
-MN Humanities Center

Share your own water story!

**NIBIIWAN BIMAADIZIWIN - WATER IS LIFE**

Sign up to the 13 Moons listserv for the latest information on workshops and events by emailing [thirteenmoons@fdlrez.com](mailto:thirteenmoons@fdlrez.com) Don't forget to check us out on Facebook! 13 Moons Ashi niswi giizisoog

*This page addresses culture, ecology, and natural resource management. Thirteen Moons is the Fond du Lac Tribal College Extension Program and is a collaboration of Fond du Lac Tribal and Community College, Fond du Lac Resource Management, funded by the USDA-National Institute of Food and Agriculture.*

# Ashi-niswi giizisoog Ojibwemowin Page

## Anishinaabemowin Lessons

Basic Ojibwe words and phrases:

### Double Vowel Chart

This is how to pronounce Ojibwe words.  
All consonants sound the same as in English.

“Zh”- sounds like the “su” in measure

“a”- sounds like the “u” in sun

“aa”- sounds like the “a” in father

“i”- sounds like the “i” in sit

“ii”- sounds like the “ee” in feet

“o”- sounds like the “o” in go

“oo”- sounds like the “oo” in food

“e”- sounds like the “ay” in stay

### Biiwan blizzard

#### Four Stages of Life

Baby(ies)- Abinoojiiyens(ag)

Child(children)- Abinoojii(yag)

Boy(s)- Gwiiwizens(ag)

Girl(s)- Ikwesens(ag)

Women(Women)- Ikwe(wag)

Man(men)- Inini(wag)

Source: [www.ojibwe.org/home/pdf/ojibwe\\_beginner\\_dictionary.pdf](http://www.ojibwe.org/home/pdf/ojibwe_beginner_dictionary.pdf)

## Ashi-niswi giizisoog BIGADA'WAA WORD SEARCH

Find the Ojibwe words in the puzzle below

N D O K A A W G N I N I N I I O O B Y V  
 N A A Q G J M R G Z G O C J C P O C D B  
 B F G B S I M J P I H H P K H I D A Z M  
 V S Z I J T C N C C I S U I I G I J A U  
 H X J C H U O H N N P J E P G O N B D T  
 Y Y Y C R Z I L I R Q T F X I O M X L C  
 K X K P A N I N Y G A X N I S Z O C P L  
 X R G P O G G I E A I G L O I I G Z J D  
 K D U O T W N A G D K Z H R N H O E F I  
 P D D C A A G A L O Y G H S A C F D Q B  
 W I K A W G A I X K N Y O I A I M J A E  
 N N K I L Z E Q S X C I I I D G T T A T  
 K O M F I O G A O I I V M X J E W S E A  
 D I C H H T K W X L N Y K Y I M L Z C A  
 G Y C G I Z H I D E B A F I N P G O Y G  
 N I D B D X J P B S M W A S T J N M C A  
 G S X Q G U B G K P C V Q B J F C E A A  
 V B I T E L B B S M Y L U V P A X K E Z  
 D A G I H Z I I G O N I M G G H B H M C

Minogiizhigad	It is a good day.
Minogiizhigan	It is a good day.
Gimiwan	It is raining.
Gichigimiwan	It is raining hard.
Zoogipon	It is snowing.
Gichizoogipon	It is snowing hard.
Noodin	It is windy.
Gichinoodin	It is very windy.
Gizhide	It is hot.
Gichigizhide	It is very hot.
Gisinaa	It is cold.
Gichigisinaa	It is very cold.
Zaagaate	It is sunny.
Gichizaagaate	It is very sunny.
Ningwaakod	It is cloudy.
Gichiningwaakod	It is very cloudy.

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## 13 Moons FDLTCC Extension Program Producer Training Program



Apply by January 18, 2019  
Contact: Nikki Crowe  
218-878-7148  
nikkicrowe@fdlrez.com

Community members who want to learn about organic and sustainable farming. The program will provide training and technical assistance, heirloom seeds, supplies, soil amendments, tools and \$ 250.00 Scholarship. Participants will attend to Midwest Organic & Sustainable Education Service Conference, group meetings, local farm tours, weekly classes during March to May and May to September for those willing to commitment 10 to 20 hours a week to learning about growing a successful farm business.

- The program will provide:
- Technical assistance through hands on trainings
  - Saving heirloom seeds,
  - Using soil amendments,
  - Farm Safety using farm implements and machines
  - Attend MOSES Conference

Producers will learn about operating a farm, establish connections with other producers, service providers and USDA programs; use Food Safety and Sustainable Agricultural practices, and pest management techniques.

Participants will complete be able to create a plan to reach goals for future farm enterprises!

Call or email Nikki Crowe at 218-878-7148 or nikkicrowe@fdlrez.com for any questions and to sign up!



Fond du Lac Tribal and Community College



## Gichi Manidoo Giizis Traditional Pow Wow “Taking Care of the Land and Community”

Saturday January 12th, 2019



EMCEE  
Les Gibbs

Arena Director  
David Manuel

Spiritual Advisor  
Roxanne Delille

Host Drum  
Miziwekaamilkinaan

Cohost Drum

Stonebridge Singers

Head Dancers  
Michelle DeFoe and Doug Diver

Registration: 10am  
Grand Entry: 1pm & 7pm  
Feast at 5pm

Black Bear Casino Resort  
Otter Creek Event Center  
1785 Highway 210  
Carlton, MN 55718

Hotel Reservations: 1-888-771-0777

Free Admission—Open to the Public  
Alcohol & Drug Free Event

Moccasin Game & 50/50 Raffle

Join our event on the 13 Moons Ashiniswi giizisoog Facebook page

### Taking Care of the Land and Community

Info booths and displays of Tribal, State and Federal programs involved in taking care of the land and community.

Vendor tables available For more information contact:  
Nikki Crowe 218-878-7148



Sponsored by  
Fond du Lac Band of Lake Superior Chippewa  
Fond du Lac Tribal and Community College  
USDA-NIFA Funds

