



GLIFWC's 2016 Phenology Calendar



gichi-manidoo-giizis (January) Great Spirit Moon						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes: _____					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
● New Moon	17	18	19	20	21	22
24	25	26	27	28	29	30
○ Full Moon	31 Bear cubs born in dens; great horned owls begin hooting and claiming territories.					

namebini-giizis (February) Sucker Moon						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes: _____						
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	● New Moon	16	17	18	19	20
21	22	23	24	25	26	27
28	○ Full Moon	29	Deer shed antlers; ermines are active; ravens begin nesting; wolves mate; bald eagles begin nesting.			

onaabani-giizis (March) Hard Crust on the Snow Moon						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	● New Moon	17	18	19
20	21	22	23	24	25	26
○ Full Moon	27	28	29	30	31	
Snowshoe hare coats begin to turn brown; male red-winged blackbirds return; river otters give birth; grouse drum; maple sap begins to flow.						

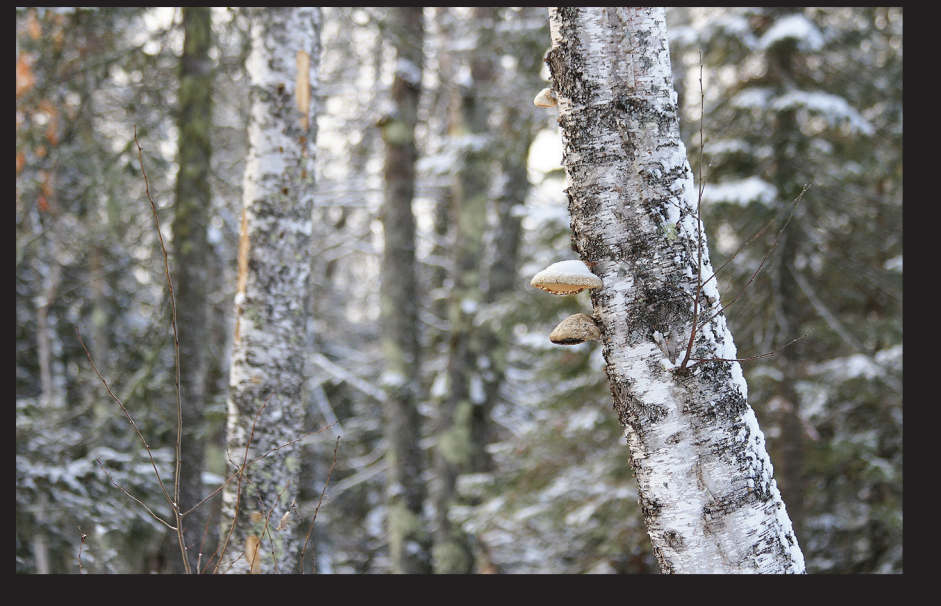
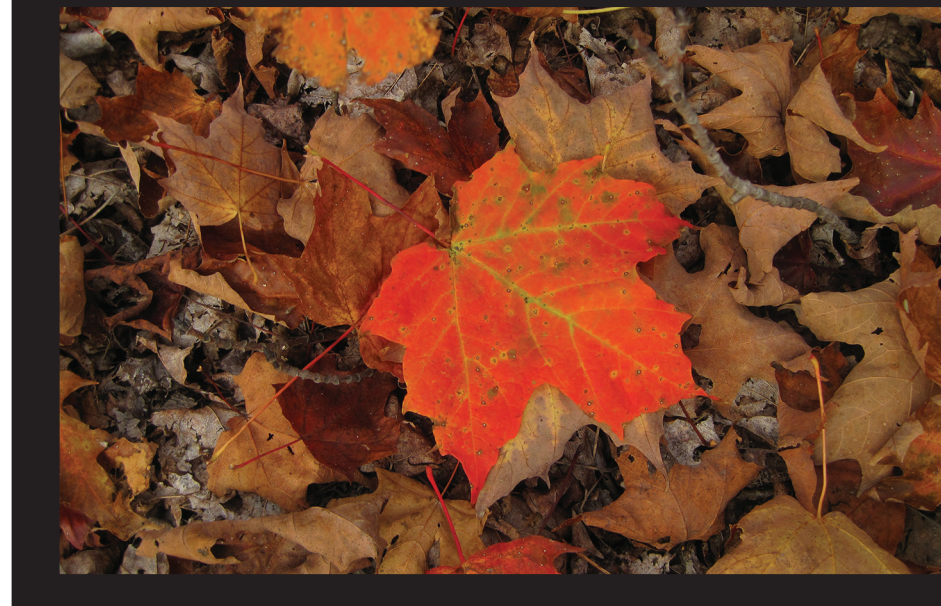
iskigamizige-giizis (April) Maple Sugar Moon						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes: _____					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
Ice goes out on lakes; wood frogs and spring peepers call; walleye spawn; wild leeks and fiddleheads emerge; early wildflowers bloom; some birds return; tree buds burst; trees begin to flower.						

waabigwanii-giizis (May) Flower Moon						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes: _____						
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	Many wildflowers bloom; hummingbirds and other birds return; mosquitoes out; tree leaves emerge; fawns born.			



ode'imini-giizis (June) Time for Picking Strawberry Moon						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes: _____			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		
Loon chicks hatch; turtles lay eggs; songbirds nest; fireflies out; strawberries ripen.						

aabita-niibino-giizis (July) Half Way Through the Summer Moon						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes: _____					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	Eaglets fledge; jewelweed pods ripen; blueberries and raspberries ripen.					



Phenology in the Ceded Territories

Phenology is the study of the timing of biological events throughout the year—when maple sap starts running or the first grouse begins drumming or blueberries ripen. Phenology is a useful way to monitor possible long-term trends in environmental conditions, such as a changing climate. We have included a few phenological events to watch for throughout the year, but we encourage you to write down additional observations from your location.

Observing seasonal changes can be a fun activity for your family or for students in the classroom. If you continue to record your observations over the years, it can be interesting to look back and compare what time of the year certain events took place. For more information on phenology or climate change, go to www.glifwc.org and click on "climate change."

**Treaty seasons in the 1837 and 1842 Ceded Territories of MN, WI & MN.*

manoominike-giizis (August) Ricing Moon						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	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			
Wild rice ripens; goldenrod blooms; nighthawks migrate.						

waatebagaa-giizis (September) Leaves Changing Color Moon						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes: _____				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	
Colors begin to turn; raptors migrate; monarch butterflies migrate; cranberries ripen; ferns turn brown.						

binaakwii-giizis (October) Falling Leaves Moon						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes: _____						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	Loons begin to leave lakes; tamaracks turn yellow; first frost.				

gashkadino-giizis (November) Ice is Forming Moon						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		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			
Waterfowl leave lakes; first snow; black bears find dens; deer in rut.						

manidoo-giizisoons (December) Little Spirit Moon						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes: _____				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
Lakes freeze over; snow accumulates.						