

GLIFWC's 2016 Phenology Calendar ******

Friday

15

22

29

O Full Moo

Saturday

16

23

30

gichi-manidoo-giizis (January) **Great Spirit Moon**

dicat 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	23		
24	25	26	27	28	29	30		
O Full Moon								
31	Bear cubs b territories.	orn in dens;	great horned	owls begin	hooting and	claiming		

waabigwanii-giizis (May)	
waabigwaiiii giizib (may)	
Flower Moon	
Flower Woon	

		1.10	WEI M	UUII		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes:					•	
			4			
1	2	3	4	5	6	7
					New Moon	
8	9	10	11	12	13	14
15	16	17	18	19	20	21
10	10	' '		10	20	-
						O Full Moon
22	23	24	25	26	27	28
Mars at its brightest						
29	30	31			n; hummingl	
			other birds		quitoes out; t	ree leaves

aabita-niibino-giizis (July) Half Way Through the Summer Moon

			<u> </u>			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes:					1	2
	1	1	1			
3	4	5	6	7	8	9
	New Moon					
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	O Full Moon	27	28	29	30
31	Eaglets fled	ge; jewelwe	ed pods riper	n; blueberrie	s and raspbe	rries ripen.

waatebagaa-giizis (September) Leaves Changing Color Moon

	LCUVC			Coloi	MOOI	
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes:			1	2	3	
				New Moon		
4	5	6 Hunting season opener (deer, bear, pheasant, grouse, turkey)	7	8	9	10
11	12	13	14	15	16 O Full Moon	17
18	19	20	21	22 First Day of Autumn	23	24
25	26	27	28	29	30	
C-1	·					

Colors begin to turn; raptors migrate; monarch butterflies migrate; cranberries ripen; ferns turn brown.

namebini-giizis (February) **Sucker Moon**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday			
Notes:	Notes:								
	1	2	3	4	5	6			
		-		-		Ū			
7	8	9	10	11	12	13			
	New Moon								
14	15	16	17	18	19	20			
	'	' '		'	"				
21	22	23	24	25	26	27			
				_	_				
	O Full Moon								
28	29	Deer shed a	ntlers; ermin	es are active	; ravens begi	n nestina:			
-	-	wolves mate	e; bald eagle:	s begin nesti	ng.	5,			
	T. Control of the Con	I .		-	-				

onaabani-giizis (March) **Hard Crust on the Snow Moon**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
6	7	8 Jupiter at its brightest	9 New Moon	10	11	12
13	14	15	16	17	18	19
20 First Day of Spring	21	22	23 O Full Moon	24	25	26
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** Tuesday Wednesday Thursday Notes: 6 13 14

19

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.

21

28

20

27

		110	WCI IVI					
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
Notes:								
1	2	3	4	5	6	7		
					New Moon			
8	9	10	11	12	13	14		
15	16	17	18	19	20	21		
						O Full Moon		
22	23	24	25	26	27	28		
Mars at its brightest								
29	30	31		owers bloom return; moso vns born.				







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.

binaakwii-giizis (October) **Falling Leaves Moon**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
Notes:	Notes:							
2	3	4	5	6	7	8		
9	10	11	12	13	14	15		
16 O Full Moon	17	18	19	20	21	22		
23	24	25	26	27	28	29		
30	31	Loons begin	n to leave lak	es; tamarack	s turn yellow	; first frost.		

glifwc.org and click on "climate change." *Treaty seasons in the 1837 and 1842 Ceded Territories of MN, WI & MN. gashkadino-giizis (November)

Ice is Forming Moon

				8		
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4	5
6	7	8	9	10	11	12
13	14 O Full Moon	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29 New Moon	30			

Waterfowl leave lakes; first snow; black bears find dens; deer in rut.

ode'imini-giizis (June) Time for Picking Strawberry Moon

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes:	,		1	2	3	4
					Saturn at its brightest	
5	6	7	8	9	10	11
New Moon						
12	13	14	15	16	17	18
19	20 First Day of Summer O Full Moon	21	22	23	24	25
26	27	28	29	30		

Loon chicks hatch; turtles lay eggs; songbirds nest; fireflies out; strawberries ripen.

manoominike-giizis (August) **Ricing Moon**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2 New Moon	3	4	5	6
7	8	9	10	11	12 Perseid meteor shower peak	13
14	15	16	17	18 O Full Moon	19	20
21	22	23	24	25	26	27
28	29	30	31			

Wild rice ripens; goldenrod blooms; nighthawks migrate.

manidoo-giizisoons (December) **Little Spirit Moon**

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Notes:			1	2	3
5	6	7	8	9	10
12	13 Gemenid meteor shower peak	14 O Full Moon	15	16	17
19	20	21 First Day of Winter	22	23	24
26	27	28	29 New Moon	30	31
	5 12 19	5 6 12 13 Gemenid meteor shower peak 19 20	5 6 7 12 13 14 Gemenid meteor shower peak O Full Moon 19 20 21 First Day of Winter	1 8 12 13 14 15 Germenid meteor shower peak O Full Moon 19 20 21 22 First Day of Winter 26 27 28 29	1 2 5 6 7 8 9 12 13 14 15 16 Gemenid meteor shower peak O Full Moon 19 20 21 22 23 First Day of Winter 2 2 30

Lakes freeze over; snow accumulates.