

# 2022 Phenology Calendar

## Gichi-Manidoo-Giizis (January) Great Spirit Moon

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2 New Moon	3	4	5	6	7	8 hoarfrost on trees (2021—Cassidy Lake North St. Paul, MN)
9	10 first day above freezing (2015—Bayfield, WI)	11 first rain (2018—Bayfield, WI)	12 robins spotted (2019—Ashland, WI)	13 striped skunk spotted (2020—Casey Lake, Ashland, WI)	14	15
16 black wolf (2020—Conley Road, Chequamegon-Nicolet NF, WI)	17 Full Moon	18	19 wasp spotted on sidewalk (2017—Odanah, WI)	20 bat flying around on ski trails (2016—Ironwood, MI)	21	22
23	24	25	26 bear cubs born	27	28 barred owls begin hooting & claiming territories	29 great horned owls begin hooting & claiming territories
30 polar vortex (2019—Upper Midwest)	31 New Moon					

## Namebini-Giizis (February) Sucker Moon

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 ermine are active	2 beavers begin mating	3 albino buck spotted (2017—near Ashland, WI) less than 5% ice cover on Lake Superior (2020) (avg. for end of January is 25%)	4 red foxes begin mating	5 wolves begin mating
6	7	8 gray squirrels begin mating	9	10	11	12 crows yelling like crazy in edgarbush (2018—Red Cliff, WI)
13	14	15	16 Full Moon	17 high of 57° (2017—Ashland, WI) first arrival of robins (2018—Duluth, MN) crow carrying nest material (2020—Ino, WI)	18	19 first day above freezing (2015—Shell Lake, WI & Brampton, MI)
20	21	22 several hatches of in- sects out in the forests (2020—Bayfield County, WI)	23 three trumpeter swans (2018—Hayward, WI) woolly bear crawling across snow (2020—Odanah, WI)	24 deer shed antlers	25	26 dead skunk on highway (2016—Odanah, WI)
27	28 chickadees singing (2018—Bayfield, WI)					

## Onaabani-Giizis (March) Hard Crust on the Snow Moon

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 ravens nesting	2 New Moon first crusty snow (2018—Shell Lake, WI) gull sighting (2020—Ashland, WI)	3 first snow fleas (2018—Ashland, WI)	4 Canada geese spotted (2018—Ashland, WI)	5 first robin (2018—Shell Lake, WI)
6 bald eagles on breeding grounds and courting	7 sap stops running (2017—Mason, WI) daffodil plants emerging through the snow (2020—Bayfield, WI)	8 first red-winged blackbird (2016—Benoit, WI) song sparrows (2018—Duluth, MN) starlings arrive (2018—Bayfield, WI) chipmunk out (2020—Ino, WI)	9 look for deer ticks as soon as the snow melts	10 Canada geese on the ice (2020—Chequamegon Bay, WI) pair of swans on the ice (2020—Odanah, WI)	11 eagle building nest (2020—Ino, WI) male dove calling (2020—Ino, WI)	12 flock of robins (2016—Mason, WI)
13 bat out feeding during day (2016—Mason, WI) sandhill cranes return (2018—Prentice, WI) willow catkins (2020—Hatchery Rd, Bayfield, WI)	14 snow buntings moving north	15 maple sap begins to flow	16 maple sap flowing: February 21, 2016 (Mason, WI) March 6, 2017 (Mason, WI) February 28, 2018 (Brampton, MI) March 28, 2018 (Saginaw, MI) April 11, 2018 (Ishpeming, MI) March 11, 2019 (Ashland, WI)	17 first mourning dove (2018—Bayfield, WI)	18 Full Moon snowshoe hare coats begin to turn brown	19 common mullin leaves emerging (2020—Wisconsin Point, Superior, WI) first goldfinches at feeder (2021—Washburn, WI)
20 Spring Equinox	21 eagles mating (2018—Chippewa Flowage, WI)	22 early leek growth	23 wolf pups born	24 woodcocks peenting	25 male red-winged blackbirds return	26 woodpeckers drumming (2018—Bayfield, WI)
27 hail (2019—Penokee Range, WI)	28 first robins (2018—Siren, WI & Bayfield, WI)	29 northern white cedar flowering (2018—Odanah, WI)	30 buds on large red maple (2020—Bessmer, MI) Chequamegon Bay free of ice (2021)	31 New Moon grouse drumming sandhill cranes arrive		

## Iskigamizige-Giizis (April) Maple Sugar Moon

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1 walleye spawning	2 American kestrel (2020—Moquah, WI)
3 first mourning cloak butterfly (2018—Bayfield, WI)	4 first grouse drumming (2020—Bayfield, WI) juncos back (2021—Bayfield, WI) first tick (2021—Washburn, WI) first peepers (2021—Washburn, WI)	5 LCO opened first spearling lakes (2016—Hayward, WI) sandhill cranes, woodcock, wood ducks, & pine warblers spotted (2020—Grand View, WI)	6 sandhill cranes calling (2020—Marango, WI)	7 wood frogs heard calling (2020—Washburn, WI) kingfisher calling (2020—Friendly Valley Beach, Bayfield, WI) first thunderstorm (2021—Ashland, WI)	8 average spearing opening 1988-2015 (2020—Mason, WI) first bear spotted (2020—Mason, WI)	9 end of maple sap season (2018—Brampton, MI) northern flicker pecking at something under snow (2020—Moquah Barrens, WI)
10 first woodcock mating call (2021—Bayfield, WI)	11 beaked hazelnut flowers (2021—Bayfield, WI)	12 Canada buffaloberry leaves emerging (2020—Wisconsin Point, Superior, WI) merlins calling (2020—Wisconsin Point, Superior, WI)	13 red maple buds swelling	14 loons arrive	15 36 inches of snow! (2018—Ishpeming, WI)	16 Full Moon first bluebirds (2018—Marango, WI) last snow of season (2018—Shell Lake, WI & Brampton, MI)
17 first loon (2016—Spider Lake, WI) juncos back (2018—Bayfield, WI)	18	19 first tick (2018—Bayfield, WI) violets in yard (2018—Ironwood, WI)	20 first butterfly (2018—Duluth, MN) first dragonfly (2018—Shell Lake, WI) last snow of season (2018—Saginaw, MN)	21 first spider outside (2018—Duluth, MN) first red-winged black- bird (2018—Shell Lake, WI) first night above freezing (2018—Brampton, MI)	22 first double-crested cormorants (2020—Chequamegon Bay, WI)	23 first painted turtle basking (2021—Marango, WI)
24 sugar maple flowering fiddleheads emerge	25 wood frogs calling	26 bloodroot begins blooming trout lily leaves emerge last snow of season (2021—Ashland, WI)	27 yellow-rumped warblers return	28 first wildflowers blooming (dandelion) (2018—Shell Lake, WI)	29 hermit thrush singing (2019—Barkdale, WI)	30 New Moon first spring peepers (2018—Bayfield, WI)

## Waabigwanii-Giizis (May) Flower Moon

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 first flowering trees— quaking aspen (2018—Rice Lake, WI) end of maple sap season (2018—Saginaw, MN)	2 leatherwood blooming (2018—Mason, WI)	3 fox kits (2018—Ashland, WI)	4 house wrens back (2018—Washburn, WI) first woodcock mating call (2018—Saginaw, MN) mole running in circles in backyard (2015—Ashland, WI)	5	6 common loon spotted (2016—Twin Bear Lake, Delta, WI) leaves out on apple, birch, serviceberry, plum (2018—Marango, WI) long-stalked sedge flowering (2020—Bayfield, WI)	7 marsh marigold blooming (2020—Bayfield, WI)
8 snow/sleet, and songbirds singing (2018—Ashland, WI)	9 strawberry flowering (2017—Ashland, WI)	10 first hummingbird (2018—Odanah, WI)	11 first canoe (2018—Ishpeming, MI) eastern meadowlark (2018—Saginaw, WI)	12 fiddleheads (2016—Mason, WI) end of maple sap season (2018—Ishpeming, MI) first grouse drumming (2018—Shell Lake, WI) first trout lily flowering (2020—Mellen, WI)	13 trillium blooming starflower blooming	14 first suckers running (2018—Ishpeming, MI)
15 Full Moon first fiddleheads harvested (2018—Shell Lake, WI) ostrich, lady, & bracken fern fiddleheads (2020—Frog Bay, WI)	16 bumblebee on leatherleaf flowers (2020—Job Lake, WI)	17 first leeks harvested (2018—Ishpeming, MI)	18 first new needle growth on trees (2018—Brampton, MI) first apple blossom (2018—Bayfield, WI)	19 first American toads calling (2020—Washburn, WI)	20 box elder flowers (2020—Bayfield, WI) flowers on raspberry plants (2020—Duluth, MN) red osier dogwood leafing out (2020—Red Cliff, WI)	21
22 first whitetail deer fawn (2020—Mason, WI) starflower blooming (2020—Bayfield, WI)	23 first dragonfly (2018—Brampton, MI) late frost (2018—Brampton, MI)	24 spring azure butterfly (2020—Bayfield, WI)	25 first monarch of the year (2021—Ironwood, MI)	26 yellow swallowtail sighting (2018—Bayfield, WI) pin cherries blooming (2020—Bayfield, WI) staghorn sumac leafing out (2020—Bayfield, WI)	27 last frost before summer (2021—Ashland, WI)	28 first bear (2018—Brampton, MI)
29	30 New Moon black ash leaves out tadpoles (no legs yet) (2020—Duluth, MN)	31 wood duck swimming with her ducklings (2020—Bayfield, WI)				

## Ode'imini-Giizis (June) Time for Picking Strawberry Moon

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 common milkweed emerging (2018—Bayfield, WI)	2 chokecherry blooming (2020—Red Cliff, WI) wild black currant blooming (2020—Red Cliff, WI)	3 watch for fireflies	4 buck with antlers starting (2016—Mason, WI)
5 watch for turtles laying eggs	6 watch for nesting songbirds	7 first firefly dates: May 27, 2015 (Marango Lac du Flambeau & Ashland, WI) June 29, 2017 (Mason, WI) June 20, 2018 (LCO, WI) June 30, 2018 (Cornucopia, WI) July 12, 2019 (Ashland, WI) June 15, 2020 (White River, WI) June 3, 2021 (Hurley, WI)	8	9 jack-in-the-pulpit blooming (2020—Bayfield, WI) hooked buttercup blooming (2020—Bayfield, WI)	10 highbush cranberry starting to bloom (2020—Red Cliff, WI)	11 beach heather blooming (2020—Superior, WI) purple rock cress blooming (2020—Superior, WI)
12 Labrador tea & thimbleberry blooming (2018—Red Cliff, WI)	13 pink moccasin flower blooming (2020—Moquah Barrens, WI)	14 Full Moon (Supermoon)	15 wild rice floating leaf stage (2020—Grand Marais, MN)	16 sandhill crane chicks (2019—Hayward, WI)	17 hawkweed blooming (2019—Ironwood, WI)	18 woodcock chicks (2018—Siren, WI)
19 tiny loon chick! (2019—Spider Lake, Ino, WI)	20 twinflower blooming (2020—Superior, WI) heavy rains (2020—Ishpeming, MI)	21 Summer Solstice blue flag iris blooming	22 loons with chicks (2020—Bayfield, WI)	23 push honeysuckle blooming (2020—Bayfield, WI)	24	25 deer flies start (2018—Mellen, WI)
26 flowers on berry plants (blue, straw, june) (2020—Ishpeming, MI) pitcher plants in bloom (2020—Bayfield, WI)	27 bluet blooming (2020—Two Harbors, MN)	28 New Moon	29 yarrow & wild chamomile flowering (2018—Bayfield & Ashland Counties, WI)	30		

# 2022 Phenology Calendar

## Aabita-Niibino-Giizis (July) Half Way Through the Summer Moon

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1 downy woodpecker in nest with very noisy chicks (2020—Bayfield, WI)	2 watch for eaglets fledging (2020—Bayfield, WI)
3 turkey poults (2019—Lac Seul, WI)	4	5 litty bitty blueberries ripe (2019—Moquah Barrens, WI) one-flowered pyrola blooming (2020—Superior, WI)	6 dwarf enchanter's nightshade blooming (2020—Bayfield, WI)	7	8 ghost pipe blooming (2020—Bayfield, WI)	9
10 pipsissewa blooming (2020—Bayfield, WI)	11 aphrodite and atlantis fritillary butterflies feeding (2020—Moquah Barrens, WI) blueberries and thimbleberries ripe (2020—Moquah Barrens, WI)	12	13 Full Moon (Supermoon) ☉	14 heavy rains (2020—Ishpeming, MI)	15 wild mint blooming (2020—Ashland, WI) enchanter's nightshade blooming (2020—Bayfield, WI)	16 wild raspberries ripe (2020—Bayfield, WI)
17	18 two golden eagles (2019—Lake Superior, near Washburn, WI)	19	20 jewelweed pods ripen	21 bluebead fly berries turn blue	22	23 cattails done pollinating (2016—Odanah, WI)
24	25 giant sunflower blooming (2020—Lake County, MN)	26 blueberries & raspberries ripen	27	28 New Moon ☾	29	30 northern barrens tiger beetle active (2020—Moquah Barrens, WI)
31 partridge berry fruits ripening (2020—Red Cliff, WI)						

## Manoominike-Giizis (August) Ricing Moon

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 fessellated rattlesnake plantain blooming (2020—Superior, WI)	2	3 thimbleberries ripe (2017—Washburn, WI)	4 chanterelle mushrooms fruiting (2020—Bayfield, WI)	5	6
7 winterberry (holly) bearing fruit (2020—Russell, WI)	8	9	10 blue vervain blooming (2020—Bayfield, WI) bald-faced hornets active (2020—Bayfield, WI)	11 Full Moon ☉	12 hairy goldenrod blooming (2020—Washburn, WI) six-spotted fishing spider active on lily-pads (2020—Washburn, WI) destroying angel mushrooms observed (2020—Washburn, WI)	13
14 milkweed pods ripe (2017—Bayfield County, WI)	15 watch for manoomin ripening on rivers	16 second brood of bluebirds in nest box fledged (2016—Marengo, WI) franklin's ground squirrel active (2020—Duluth, MN)	17	18 swamp beggarticks blooming (2020—Russell, WI) swamp aster blooming (2020—Russell, WI)	19	20 ricing opened on Kakagon Slough (2016—Odanah, WI)
21 nighthawk migrating in Upper Michigan (2020)	22 leaves turning color (maple, birch, ash) (2019—Drummond, WI) first wild rice ripe (2020—Duluth, MN)	23 pickerelweed blooming (2020—Mercer, WI)	24 ricing opened on part of Kakagon Slough (2017—Odanah, WI)	25	26	27 New Moon ☾
28 first leaves changing color (oak) (2020—L-Anse, MI)	29 aporosa fungus blooming & fruiting (2020—Bayfield, WI)	30	31			

## Waatebagaa-Giizis (September) Leaves Changing Color Moon

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			leaves begin to turn color	1 first apples harvested (2018—Burnett County, WI)	2	3
4 autumn meadowhawk dragonflies active (2020—Russell, WI)	5 autumn meadowhawk dragonflies active (2020—Russell, WI)	6 hunting season opens (deer, bear, pheasant, grouse, turkey) (2020—Superior, WI)	7 geese start heading south (2016—Ashland, WI) jewelweed seed pods popping (2020—Russell, WI)	8 light frost (32°) (2017—Ironwood, MI) last hummingbirds (2020—L-Anse, MI) Canadian wood nettle ready to harvest (2020—Ashland, WI)	9 deer getting winter coats (2018—Vilas County, WI)	10 Full Moon ☉ raptors migrating
11 first grouse harvested (2018—Siren, WI)	12 hummingbirds gone (2017—Mason, WI)	13	14 ferns yellow (2020—L-Anse, MI)	15 first polished deer antlers (2018—Siren, WI)	16 first polished deer antlers (2018—Siren, WI)	17
18 buck still in velvet (2017—Washburn, WI) baby snapping turtles hatching (2020—Grand Rapids, MN) first hard frost (2020—Ironwood, MI) rabbit tobacco blooming (2020—Superior, WI)	19 wild plums ripe & very sweet (2020—Two Harbors, MN)	20 monarch butterflies migrating	21 cranberries ripening	22 Fall Equinox grapes are ripe (2020—L-Anse, MI) migrating robin flocks (2020—L-Anse, MI)	23	24
25 New Moon ☾ first leaves changing colors (2020—Ishpeming, MI)	26 bucks and does together eating acorns (2018—Siren, WI)	27	28	29 first frost (30°) (2020—Siren, WI) harvested pumpkins (2020—Siren, WI)	30	

## Binaakwii-Giizis (October) Falling Leaves Moon

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				watch for peak fall colors	snowshoe hare begins to turn white	1 hunting season opener (hobcat) first snowfall dusting (2020—Ironwood, MI) wolfberry fruiting (2020—Bayfield, WI)
2	3 snow geese (2018—White River Dam, WI)	4 blueberry flowers & unripe blueberries remain (2015—Perkasies, WI) red clover still blooming (2020—Bayfield, WI)	5 first duck harvested (2018—Siren, WI)	6 watch for peak fall colors	7	8 peak fall colors (2015—Ironwood, MI)
9 Full Moon ☉	10 highbush cranberry ripe (2020—Ashland, WI)	11 record high temp (79°) (2015—Cable, WI) bumblebees still active at late-blooming flowers (2016—Odanah, WI)	12 first duck harvested (2018—Siren, WI)	13 loons leave lakes	14 slate colored juncos arrive (2020—L-Anse, MI)	15 first snow: October 1, 2017 (Shell Lake, WI) October 31, 2017 (Ishpeming, MI) November 3, 2017 (Saginaw, MN) November 12, 2017 (Brampton, MI) October 11, 2018 (Siren, WI) October 11, 2019 (Ironwood, MI) October 2, 2020 (Ishpeming, MI) October 22, 2021 (Ironwood, MI)
16 robins still observed (2015—Moquah, WI) sleet (2015—Ironwood, MI) woolly bears on the road (2017—Odanah, WI)	17 first hard frost (26°) (2015—Cornucopia, WI) first ski (2015—Ironwood, MI) first snowfall that sticks (2020—Ishpeming, MI, Duluth, MN, & Bayfield, WI)	18 frozen puddles (2020—L-Anse, WI)	19	20 peak fall colors: October 8, 2015 (Ironwood, MI) October 11, 2019 (Ironwood, MI) October 2, 2020 (Duluth, MN) October 10, 2020 (Ishpeming, MI) October 19, 2020 (L-Anse, MI)	21	22
23	24 flying squirrel in the house overnight (2020—Bayfield, WI)	25 New Moon ☾ snow buntings migrating (2020—Herbster, WI)	26	27 66 loons on waterfowl survey (2015—Ashland County, WI)	28	29 first skisnowshoe (2017—Ishpeming, MI) valerian root ready to harvest (2020—Bayfield, WI)
30 lake freezes (2020—Long Lake, Iron County, WI)	31 bear season ends (WI & MI)					

## Gashkadino-Giizis (November) Ice is Forming Moon

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 polished deer antlers (2020—Ishpeming, MI)	2	3 108 loons on waterfowl survey (2015—Ashland County, WI) large flocks of swans in harvested bean field (2018—Polk County, WI)	4 dragonflies still active (2016—Iron Belt, WI)	5 first snowshoe (2017—Shell Lake, WI) first temperature below 0 (2017—Shell Lake, WI)
6 snow begins to stick	7 first dates of snow sticking: October 22, 2017 (Bayfield, WI) October 27, 2017 (Duluth, MN) December 5, 2017 (Brampton, MI) December 14, 2017 (Saginaw, MN) November 7, 2018 (Siren, WI)	8 Full Moon ☉ first day temperature stays below 0 (2018—Ishpeming, MI)	9 bucks in rut (2017—Ishpeming, MI)	10 waterfowl leaving lakes first snow fleas (2020—Ishpeming, MI)	11 last sandhill cranes migrating south	12 one foot of snow (2015—Cornucopia, WI)
13 Elbow Lake frozen solid (2018—Burnett County, WI)	14	15 bear season ends (MN)	16 first ermine with white coat (2017—Saginaw, MN)	17 first temperature below 0 (2017—Saginaw, MN)	18	19
20	21	22 five fish houses out (2017—Big Grand, Saginaw, MN)	23 New Moon ☾ lake freezes (2017—Baldy Lake, Brampton, MI)	24	25	26
27	28	29	30			

## Manidoo-Giizisoons (December) Little Spirit Moon

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		lakes begin freezing over	snow starts accumulating	1 snowy owl spotted (2015—Benoit, WI) first white coat on snowshoe hare (2017—Ishpeming, MI) Silver Lake Basin frozen solid (2020—Ishpeming, MI)	2 first temperature below 0 (2017—Ishpeming, MI)	3
4 first deer antlers dropped (2017—Saginaw, MN) huge thunderstorm (2017—Ironwood, MI)	5	6	7 Full Moon ☉	8 grouse drumming at 6 am (2015—Mason, WI)	9 ruffed grouse active at edge of woods (2020—Bayfield, WI)	10 white snowshoe hare on Long Lake (2020—Washburn, WI)
11 look for mink and otter slides	12 night crawler on sidewalk (2015—Washburn, WI)	13 first below 0 night (2016—Ironwood, MI)	14	15	16	17
18	19	20 rain (2018—Odanah, WI)	21 Winter Solstice	22	23 New Moon ☾	24 last deer with antlers seen (2017—Brampton, MI)
25	26 look for snow fleas in the snow	27	28 lots of rain in Washburn and melted much of the snow (2020—Washburn, WI)	29	30	31 many (not all) hunting seasons end (see regulations)