

NAP

NATURAL AREA PRESERVATION

VOLUME 22, NUMBER 2
SUMMER 2017

Park Focus: Fuller Park

*Becky Gajewski,
Stewardship Specialist*

When you think of Fuller Park, you may think of cooling off in the pool, zipping down the water slide, or playing a game of soccer. But did you know that Fuller Park also has its own natural area? North and east of the soccer fields, a floodplain forest curves around with the bend in the Huron River, and extends all the way down to Fuller Road. A small foot path begins at the bridge that leads to Island Park and runs along the edge of the river, all the way through the forest.

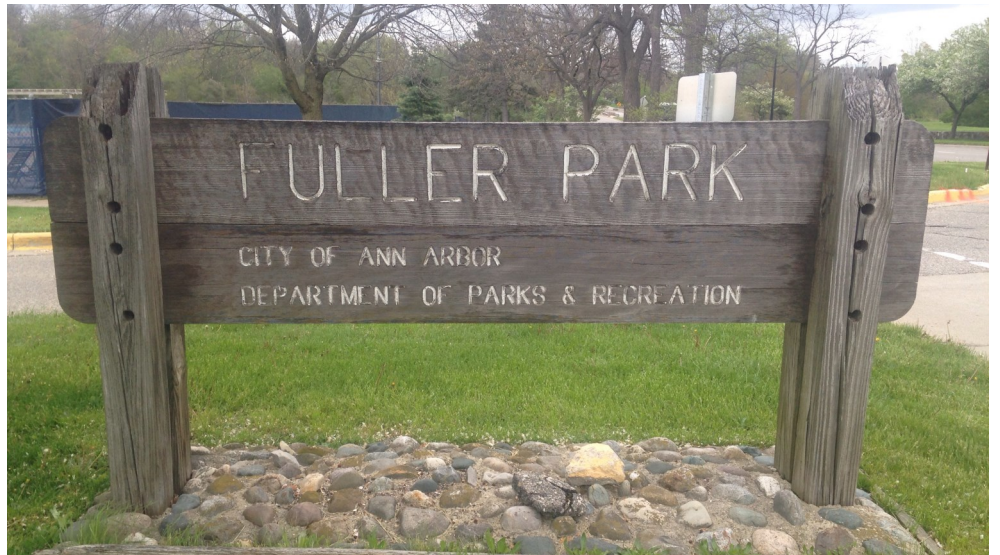
The path begins up on a bank above the river, but very shortly, it drops down and enters the river floodplain. A floodplain is a flat area next to a river that floods



Spring flooding at Fuller Park

when the river is high. This flooding usually happens following big rain storms or when the snow melts in the spring. The floodplain forest at Fuller is full of interesting features you can only find along a river, and they tell a story about the natural processes that happen here.

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The entrance to Fuller Park. Its many recreational opportunities make this park a great spot for summer family activities.

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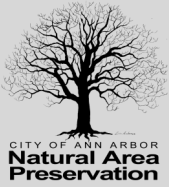
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COORDINATOR'S CORNER

A unit of the City of Ann Arbor Community Services Area, Parks and Recreation Services.

The mission of Natural Area Preservation is to protect and restore Ann Arbor's natural areas and to foster an environmental ethic among its citizens.

3875 E. Huron River Drive
Ann Arbor, MI 48104
Phone: 734.794.6627
Email: NAP@a2gov.org
Website: a2gov.org/NAP
facebook.com/ann.arbor.NAP
twitter.com/a2NAP

Natural Area Preservation Manager:

Dave Borneman

Stewardship Specialists:

Becky Gajewski
Michael Hahn

Inventory Staff

George Hammond *Biologist*
Juliet Burger *Ornithologist*
Patrick Terry *Herpetologist*

Conservation Workers:

Alex Sasky
Amy Wells
Drew Zawacki
Morgan Boyer

Volunteer and Outreach

Coordinator:

Tina Stephens

Outreach Assistants:

Alex Cherry
Dana Novak
Katie Carlisle

Natural Area Preservation is funded by the voter-approved 2013-2018 Park Maintenance & Capital Improvements Millage.

Dave Borneman, Natural Area Preservation Manager

Details, Details, Details...

I'm getting married in June, perhaps at about the time you're reading this article. June's a popular time for a wedding, given the beautiful weather, blooming flowers, and the start of summer vacation. I knew that. What I didn't know was just how much preparation and work is required to pull off a wedding! So many details to work through: venues, caterers, flowers, dresses, music, vows, etc... etc... etc... It's been a very busy few months for those working so hard to pull this together, mainly my fiancée!

Now, a wedding is certainly a big deal, a once-in-a-lifetime sort of thing. So of course it requires a lot of work and a huge amount of planning. But perhaps you've never really stopped to think just how much planning and preparation goes into pulling off the many dozens of workdays, prescribed burns, and other volunteer events that NAP hosts every year. Consider, for example, our prescribed burn program. You may get a text at 9:00 a.m. inviting you to participate in a burn with NAP that afternoon. But long before that text was sent, and long before you show up with your leather boots to work on the day's burn crew, the staff, park stewards, and other dedicated volunteers have been putting together the plans and working out the details to make that burn possible.

It's an on-going process, but let's just jump in and start in the middle of the field season, when staff and Park Stewards are out in their parks. We're taking note of how areas are looking, where there are infestations of invasives that need attention, and where controlled fire might be an appropriate restoration tool to deploy. Later that winter, those field observations come into consideration when we develop lists of potential prescribed burn sites. Then there's a long list of controlled burn plans, burn permits, neighbor notification letters, park signs, and burn crew training that needs to be accomplished before burn season actually starts. And then it's a matter of monitoring the weather, checking field conditions (often early in the morning at first light!), getting equipment ready, prepping individual sites, notifying volunteers and others, etc... that all must happen before the first volunteer ever shows up for the burn.

It's a different but similarly rigorous process that goes into every one of our workdays, some of which are quite large, involving hundreds of students from local schools. If we're doing our job well, the burn or the workday goes off without a hitch, and everyone comes and goes safely and efficiently after the 3-hour event. But know that, for every hour of field time spent by a volunteer at a NAP event, there are many, many other hours of behind-the-scenes work that went into making that event happen. Most of those logistical hours are put in by hard-working NAP staff, but not all of them. We benefit greatly from volunteers who help lead other volunteers, who organize and run workdays, who lead nature walks, and who work in the office doing administrative tasks. All of these efforts contribute to the success of NAP's big events.

So the next time you're participating in a burn, or a big workday, or another big NAP event, please take a moment and thank those who helped make it all happen. And if you're one of those gifted individuals who likes to help make things happen, we hope you'll consider becoming an official workday leader with NAP.

Unlucky Four-Leaf Clovers

Mike Hahn,
Stewardship Specialist

Have you ever found a four-leaf clover? I have never been so lucky, but it's not always cause for celebration if you do. Last summer, the Michigan Department of Natural Resources identified two populations of European water-clover (*Marsilea quadrifolia*) where some of our parks meet the Huron river. There is currently one in Barton Pond, along Barton Nature Area, and another in Argo Pond, adjacent to Argo Nature Area. This clover may have four leaves, but it is a decidedly unlucky find. It is an invasive species that degrades native aquatic habitat and vegetation.



Photo by Krzysztof Ziarnik, Kenraiz via Wikimedia Commons

European water-clover is European in origin, as the name implies, but it can also be found in Asia. Its leaflets resemble those of a four-leaf clover (despite belonging to the fern family) and usually float near the water's surface. It can also be found standing tall as an emergent plant. The leaves are smooth and can adjust their angle towards the sun. Rhizomatous roots help it form dense mats in shallow, slow-moving rivers and ponds, and any root that breaks off will easily establish new populations. All of these attributes combined make it a plant that easily outcompetes native aquatic vegetation.

European water-clover is currently a "watch list" species, which means it is still allowed to be sold commercially. Despite its wide availability, it is only present in three other Michigan counties besides Washtenaw, according to the U of M Herbarium. This is why it is so important to address the populations in our parks before they spread farther through the Huron River watershed.

We have been coordinating with the Michigan DNR for the past year to come up with solutions to the problem. The DNR's plan of action includes the installation of benthic mats over both populations of European water-clover. This is a mechanical control method that smothers the plants, much like using a tarp or cardboard to suppress weeds in a garden bed. Benthic mats are made out of biodegradable jute fiber, which reduces negative impacts on the environment compared to other control methods. The largest mat will cover an area of about 1000 square feet in Argo Pond, and a smaller mat covering about 350 square feet will be installed in Barton Pond. Both will be anchored to the lake bed with sand bags. The mats will be submerged, but there may be some visible sections along the shoreline, covering exposed mud.



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If you would like to learn more about aquatic invasive plants or invasive species in general, Michigan's invasive species program is a helpful resource. This cooperative program is managed by several different state departments, and offers information about common weed species like phragmites as well as newer invaders like European water-clover. You can check it out at michigan.gov/invasives.



NAP

VOLUNTEER STEWARDSHIP CALENDAR

Summer 2017

Volunteers assist NAP in all aspects of our work. Community involvement is vital to the success of NAP's conservation and education efforts. Please join us for one of these events!

For all of our Stewardship Workdays, please wear sturdy shoes good for off trail travel and wet ground, and dress in layers. Workdays are free and suitable for all ages. Minors must be accompanied by a guardian or have a signed release form. Contact NAP for release forms. Tools, snacks, and know-how provided. Contact NAP at 734.794.6627 or NAP@a2gov.org.

JUNE

National Trails Day! Stewardship Workday Saturday, June 3, 9 a.m. to noon Bird Hills Nature Area

Bring friends and family to help do some trail maintenance for the benefit of park-goers. Meet at the Newport Road entrance, just north of M-14.

Summertime Frog & Toad Survey Training Saturday, June 3, 1 to 3 p.m. NAP Office, 3875 E. Huron River Dr.

Learn to identify and record summer breeding frogs & toads in this second training. To register, call 734.794.6627 or email NAP@a2gov.org.

National Trails Day! Stewardship Workday Saturday, June 3, 1 to 4 p.m. The Ponds Park

Come help build a trail through the park and then come back to enjoy it. Meet at the park entrance at the corner of Emerald Avenue and Candlewick Drive.

Stewardship Workday Sunday, June 4, 9 a.m. to noon Huron Parkway Nature Area

Bring friends and family out to hand-pull invasive plants that are crowding out native ones! Meet at the Park Steward's house—3470 Woodland Road, off East Huron River Drive.

Stewardship Workday Sunday, June 4, 1 to 4 p.m. Leslie Woods Nature Area

This park has some of the most towering trees in the city! Come protect their seedlings from invasive species. Meet us at the park entrance at the north end of Upland Drive, north of Plymouth Road.

Bird Walk Saturday, June 10, 7:30 to 9:30 a.m. Wheeler Service Center, 4150 Platt Rd

This walk is a great opportunity to see Bobolinks and Meadowlarks! Bring binoculars if you have them, but they aren't required. Use the Platt Road entrance and look for us in the small parking lot at the first turnoff on the right.

Stewardship Workday Saturday, June 10, 9 a.m. to noon Ruthven Nature Area

Come help maintain Ruthven's trails and remove invasive plants on a beautiful glacial kame. Meet us at the Gallup boat launch parking lot, at the southeast corner of Huron Parkway and Geddes Road.

Stewardship Workday Saturday, June 10, 9 a.m. to noon Furstenberg Native Garden

Furstenberg Nature Area features some of the most diverse flora anywhere in Ann Arbor. Come learn about these from Park Steward and Master Gardener Aunita Erskine. Meet in the parking lot off Fuller Road.

Stewardship Workday Saturday, June 10, 1 to 4 p.m. Argo Nature Area

Help us remove spring invasives to make room for native plants. We may also do some trail work. Meet in the parking lot north of the Argo Canoe Livery, off Longshore Drive.

STEWARDSHIP NETWORK STEWARDS' CIRCLE

SECOND TUESDAY OF EVERY
MONTH, EACH EVENT HELD FROM
7:30 TO 8:30 a.m.

BRUEGGER'S BAGELS
709 N. UNIVERSITY AVE.

Interested in learning more about to care for our natural areas? Join the Stewardship Network's Huron Arbor cluster for an informal discussion on a monthly topic with volunteer and professional land stewards, plus others interested in nature. Free!

For more information, go to stewardshipnetwork.org.

Tuesday, June 13 | Land Conservation Basics

Whether you are new to land preservation or you're a seasoned conservationist, please join us for a discussion about land preservation with Barry Lonik. We will explore public and private funding options and take some time to talk through other methods of protecting land.

Tuesday, July 11 | Political Action

Are you curious to learn more about how government works at the county or state level? Join us for a discussion with State Representative (and former County Commissioner) Yousef Rabhi about how to navigate the political system to advocate for the environment at all levels of government.

Tuesday, August 8 | Prairie Restoration

Did you know less than 1% of Michigan's native prairie still remains intact? Taking on restoration of a prairie is not an easy task. Join us to learn about some of the prairies in Southeast Michigan including their importance, restoration and management techniques, and which plants to target this time of year.

National Get Outdoors Day!

Stewardship Workday

Sunday, June 11, 1 to 4 p.m.

Redbud Nature Area

Help us remove invasive species so more natives can thrive and provide food and habitat for wildlife. Meet at the park entrance at the intersection of Parkwood Avenue and Jeanne Street.

Stewardship Workday

Saturday, June 24, 9 a.m. to noon

Bluffs Nature Area

Volunteers are needed to pull invasive plants that crowd out native wildflowers in this lovely park. Meet at the entrance on Sunset Road near Wildt Street.

Nature Walk with Ann Arbor

District Library

Thursday, June 29, 6:30 to 8 p.m.

Barton Nature Area

This unique nature area is cradled by an oxbow in the Huron River, which supports a patchwork of interesting habitats. Staff from NAP will lead a family-friendly nature walk through the woods. Meet at the Barton Dam parking lot on Huron River Drive.

JULY

Stewardship Workday

Sunday, July 9, 9 a.m. to noon

Barton Nature Area

Restoration work has brought back a grassland in this bend of the river, but it is being invaded by exotic species. Volunteers will help pull these plants. Meet at the Barton Dam parking lot on Huron River Drive.

Huron River Day

Sunday, July 9, noon to 4 p.m.

Gallup Park.

Huron River Day activities will be held at Gallup Park from noon to 4 p.m. Visit the exhibit tents, enjoy live music, do science activities, step into a Butterfly House, and try out stand-up paddleboarding (SUP). Canoe and kayak rentals are just \$5 and free if you ride your bike. For more information visit a2gov.org/hrd.

Stewardship Workday

Saturday, July 15, 9 a.m. to noon

Furstenberg Native Garden

Park Steward and Master Gardener Aunita Erskine will lead this workday to maintain the Native Garden. Meet in the parking lot off of Fuller Road.

Stewardship Workday

Saturday, July 15, 9 a.m. to noon

Furstenberg Nature Area

This park along the river has high ecological diversity in its restored prairie and oak savanna. Help protect it from invasive weeds that crowd out natives and provide little food for wildlife. Meet in the parking lot off Fuller Road.

Nature Walk with Ann Arbor

District Library

Thursday, July 27, 6:30 to 8 p.m.

Bluffs Nature Area

Under NAP's care, prairies and oak seedlings are establishing here after many years of disturbance. Staff from NAP will lead a family-friendly nature walk through the woods. Meet at the entrance on Sunset Road near Wildt Street.

Stewardship Workday

Saturday, July 29, 9 a.m. to noon

Bluffs Nature Area

Volunteers are needed to remove invasive plants that threaten this beautiful natural area. Meet at the entrance on Sunset Road near Wildt Street.

Stewardship Workday

Sunday, July 30, 1 to 4 p.m.

Marshall Nature Area

Volunteers are needed to help remove invasive plant species that are taking over the open woodlands and meadows here. Meet in the parking lot off Dixboro Road, north of Plymouth Road.

AUGUST

Stewardship Workday

Saturday, August 5, 9 a.m. to noon

Olson Park

This park has come a long way from its past as a gravel quarry. Volunteers are needed to hand-pull invasive weeds where they are invading open meadows. Meet at the entrance on Dhu Varren Road, just east of Pontiac Trail.

Stewardship Workday

Saturday, August 5, 1 to 4 p.m.

Black Pond Woods Nature Area

Come on out to experience a woods filled with oak, hickory, maple and dogwood. Volunteers will work on removing summer invasive plant species. Meet us on Tibbits Court, off Pontiac Trail.

Stewardship Workday

Saturday, August 19, 9 a.m. to noon

Bird Hills Nature Area

Volunteers are needed to help remove invasive weeds throughout the natural area. Join us at the Bird Road entrance to this park, west of Huron River Drive (additional parking in Barton Nature Area Dam entrance).

Stewardship Workday

Sunday, August 20, 1 to 4 p.m.

Mary Beth Doyle Park

Walk along Malletts Creek and you're sure to see the effects of restoration work. Help continue the effort by removing invasive weeds in the open areas of this park. Meet us on Verle Avenue, off of Platt Road.

Stewardship Workday

Saturday, August 26, 9 a.m. to noon

Bandemer Nature Area

A patch of dry prairie with many uncommon plants line the Border-to-Border Trail along the river. Help maintain this special habitat by hand-pulling exotic weeds. Meet at the main parking area off Barton Drive.

Nature Walk with Ann Arbor

District Library

Thursday, August 31, 6:30 to 8 p.m.

Furstenberg Nature Area

This nature area along the Huron River has many beautiful open areas, where habitats like prairies, and even a sedge meadow can be found. Come learn more about this beautiful park at this event. Meet in the parking lot off Fuller Road.



Echinacea by Bill White

Fuller continued from page 1

One thing you might notice while walking down the trail is that the trees here are different than in most of Ann Arbor's other natural areas. A stately patch of sycamores, a characteristic tree of the floodplain, sits right at the beginning of the trail. One of the easiest trees to identify, the bark at the base of the tree has a tan alligator skin-like appearance, which changes as you look up the trunk. This bark transitions into a patchwork of gray, blue, white, and yellow patches, which eventually get smaller and change into smooth, flat, bright white bark, almost making the top of the tree look dead when its leaves are gone. Other floodplain trees you can find here are cottonwood, elm, bur oak, and willow. These trees don't mind "getting their feet wet" along the river.

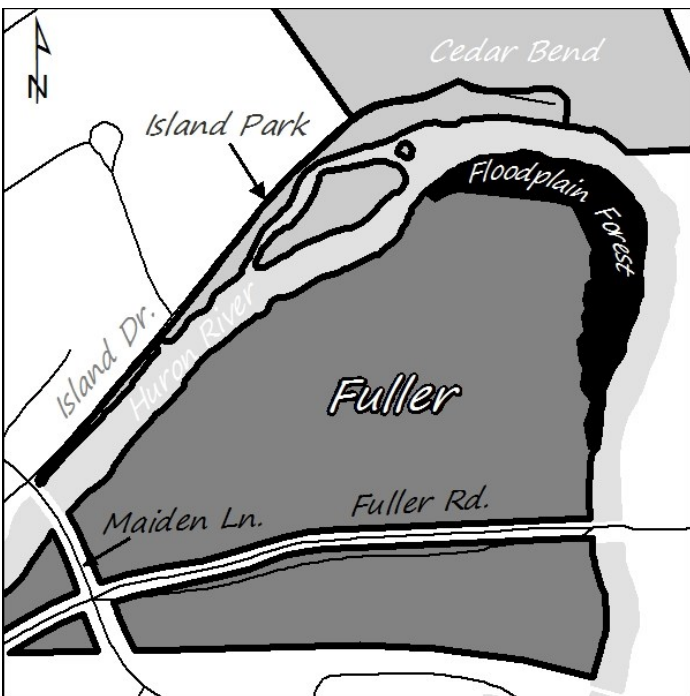
The trees in the floodplain have evolved a safety mechanism that helps keep them from being washed away during heavy flooding. While you're out on the trail, take a look at the bases of the trees. You will notice that many of them widen, or flare out, at the bottom. Flared roots help keep the tree stable, which is especially important when floodwaters are rushing past.

While you're examining the bottoms of the trees, check out the ones closest to the river. You may be able to see a layer of dried mud on the bottom portion of the trees and on the vegetation around them. That mud was deposited during a flood. You can get an idea of how deep the floodwaters were by looking at how far up the trunk the mud reaches.



Close up of the bark on a sycamore in Fuller Park

As you continue down the trail, you will eventually start to see low ridges paralleling the river. These formations are created during a flood when the rushing water of the river rises above its banks. As the water spreads out over the floodplain, it slows down, allowing any sediment it's carrying to drop out. Over time, that sediment builds up to form ridges and mounds. If it has rained recently, you may also see elongated low spots filled with water along the trail. These are called meander scars, and they mark a place where the river channel used to be. Rivers are continuously bending, curving, and changing



their paths due to erosion and deposition of sediments from place to place.

Although the floodplain forest can be a chaotic and changeable place, many critters are quite happy to call it home. Wood ducks occasionally nest in the forest, as do woodpeckers and other birds that make their homes in tree cavities. Gray squirrels, chipmunks, and groundhogs forage for food under the leaf litter. Frogs sing on warm, damp evenings, and deer pass through on their daily routes through town. In the springtime, carpets of trout lilies and patches of violets and bloodroot bloom among the previous year's fallen leaves. Next time you find yourself at Fuller Park for a dip in the pool or a baseball game, take a wander out through the natural area and explore the floodplain forest. There is much beauty to be found in the changes that happen here throughout the year.

NAPpenings

GARLIC MUSTARD MUNCHERS

Have you noticed a bunch of small holes in garlic mustard leaves this year? Argo Park Steward Rob Davenport first brought this to our attention in mid-April and then we started seeing them in a several of our other parks! Rob was able to catch an insect in the act of the munching one of these holes and sent the offender off to the USDA for identification. They confirmed that he had captured a flea beetle, *Phyllotreta ochripes*, and that this was the first time it has been officially confirmed in the U.S.! Researchers in Switzerland considered this beetle as a candidate for a garlic mustard biocontrol, but their diet isn't specific enough to garlic mustard, and it was feared they may also damage commercial legumes. Because this is all very new, there is some natural skepticism as to if this really is *Phyllotreta ochripes* so the next step is to collect some samples of the insects and send them off to Italy for confirmation. If you notice small holes like those pictured below in your garlic mustard leaves, look for this beetle and let us know if you see them. You can email us at NAP@a2gov.org or call 734.794.6627.



Flea Beetle by Rob Davenport

THANK YOU!

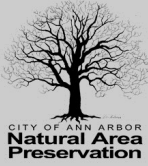
Many thanks to the groups who volunteered with NAP recently. We could not make such a difference without you!

- Alpha Epsilon Delta, UM
- Alpha Phi Omega Nature Committee, UM
- Arbor Preparatory High School
- Circle K, UM
- Concordia University Ann Arbor
- Community High School
- Cub Scout Pack 3131
- Delta Sigma Phi, UM
- Delta Sigma Pi Professional Business Fraternity, UM
- Honey Creek Community School
- King Elementary School
- SBD North America
- Science Olympiad Invasive Species Team, Slauson Middle School
- Sigma Chi Zeta Theta A
- Spiral Scouts Acorn Circle 295
- Tau Beta Pi Ann Arbor Area Alumni Chapter
- TCF Bank
- Temple Beth Emeth 7th graders
- Pre-Dental Association, UM
- Pre-Surgical Club, UM
- Vision Volunteer Center, EMU
- Youth for Understanding
- Zeta Beta Tau, UM

CITIZEN BAT MONITORS NEEDED!

NAP has been accepted as a partner organization with the Organization for Bat Conservation's Citizen Bat League! As part of their volunteer Bat Monitoring Program, NAP will train volunteers to record bat calls while driving along preset routes in and around the city.

All monitoring equipment will be provided, and the surveys will take place on one night in June and one night in July. Would you like to be involved? Let us know at NAP@a2gov.org!



NAP

Natural Area Preservation
City of Ann Arbor
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SUMMER 2017



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CITY OF ANN ARBOR



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Invasive Garlic Mustard Pesto Recipe

Madison Roze , Outreach Assistant

You may know invasive species are bad for native ecosystems, but did you know that some of them can be incorporated into your diet for a healthy, flavorful shot of vitamins and minerals? Wild plants often have higher levels of nutrients than their cultivated counterparts. Garlic mustard for instance, infamous for its aggressive growth patterns, is high in essential minerals, proteins, and vitamins A and C. So next time you pull it, don't toss it in the trash just yet! Bust out the food processor and make some pesto instead.



Garlic Mustard Flowers

INGREDIENTS:

- 11 cups packed garlic mustard leaves, coarsely chopped.
- 1/4 cup pine nuts
- 2 garlic cloves
- 1/3 cup grated parmesan cheese
- 1 cup extra virgin olive oil
- 1/2 teaspoon sugar
- coarse ground black pepper, salt, and lemon juice to taste

INSTRUCTIONS:

1. In a blender or food processor, pulse together the pine nuts, garlic and cheese.
2. Slowly add the garlic mustard leaves, a little at a time.
3. While the blender/food processor is on, add the olive oil in a steady pour over the course of one minute or until the consistency is to your liking.
4. Add lemon juice, sugar, pepper and salt to taste. Blend until mixed.



You can add this to pasta, have it on toast, with a meat dish, or anywhere you would normally use pesto. Happy foraging!