

The Scourge of the Midwest

Think back to Mid-March. The unrelentingly cold winter suddenly went into retreat, and the daytime temperatures quickly reached 50, 60, 70 degrees. Outside, the plants that had lain dormant all winter began to stir. One shrubby plant seemed to send out its green leaves before all the other plants around it. Not simply an early riser, this same plant had been the last to lose its leaves back in November. In nature's competition for light, other plants around it simply don't have a chance. They never get their moment in the sun. Each year, they lose more ground to this shrubby invader. What is this plant so perfectly honed to outcompete the others?

Bush honeysuckle.

How bad is it really? Put it this way: in some areas of Glen Helen, the only thing growing in the understory is honeysuckle. No wildflowers. No other shrubs or small trees; just honeysuckle, with the occasional canopy tree poking up through it. And what of the big trees? A mighty white oak might drop thousands of acorns down through the layer of honeysuckle at its base. How many of those acorns will germinate and grow to become the next generation of great oaks?

None.

Such is the way of invasive species. The story of how invasive plants took over the American landscape, spreading through parks, preserves, and backyards alike, is replete with cruel ironies. None are more ironic than the fact that we brought this on ourselves. Examine a list of the most invasive species in Glen Helen, and you see a list of plants that were once encouraged. The dreaded honeysuckle was once recommended as a "living fence." After all, it grows quickly to form an impenetrable thicket. Same thing for privet and multiflora rose. Perhaps our forebearers didn't realize that these plants wouldn't respect property lines; perhaps they didn't realize that birds and other animals would transport the seeds far and wide.

Others species were planted and cultivat-



The top ranked invader – garlic mustard.

ed as landscape plants. That's the case with plants like wintercreeper (aka Euonymus), Oriental bittersweet, and burning bush. Over 50 years or more, these backyard ornamentals have left our gardens, leapt over buildings and roads, and landed in the midst of the most remote, most fragile habitats of the Glen.

But these invaders pale in comparison to one that was first introduced as a food crop. It is so harmful to the natural landscape that its name is often muttered with a mixture of reverence and disgust: "garlic mustard." Garlic mustard, with its abundant seeds and, like honeysuckle, its early jump on the growing season, is a prolific invader. Each mature plant can produce a thousand seeds or more, and once those seeds land in the soil, they can survive for 5-7 years. In just the past few years, garlic mustard had moved rapidly into the "Oak Triangle" area between Birch and Yellow Springs creeks. Now, the clock is ticking. The Ohio Department of Natural Resources reports that garlic mustard is capable of completely displacing native species within 10 years after invading an area.

We need to figure out a way to push the invaders back, or we will lose what is native.

In spite of the enormity of the challenge, there is cause for hope. The vision of pushing

back the invasive species carries with it the promise of a healthier Glen – one with more nesting birds, more abundant wildflowers, and healthier populations of oaks, hickories, and other trees. The area outside the Glen Helen Building has become a showcase for demonstrating the resilience of native species. Just a few years ago, this area was so thick with honeysuckle that visitors could barely make their way down the choked trails. Then volunteer "Habitat Healers" went to work. They pulled hundreds of honeysuckle bushes – some close to 15 feet tall, and gradually opened the understory again. Now each year brings a greater profusion of wildflowers. Instead of the dreaded honeysuckle, visitors find may-apple, Dutchman's britches, bloodroot, cut-leaf toothwort, and more.

Everyone deserves the chance to feel the self-worth and satisfaction that comes from clearing an acre of honeysuckle or garlic mustard. Fittingly, the job is big enough that it will take the involvement of everyone who cares for the Glen.

Habitat Healers are at work daily pulling garlic mustard and the other invasive species. Come on out and join our efforts for an hour or a day. Removing the invaders will require supreme effort and constant vigilance. But with your help, we can restore our native wildlands.

– Nick Boutis (nboutis@antioch-college.edu)

Where to go to find out more:

www.glenhelen.org/science/invasive_species.html: list of the common invasive plants found within Glen Helen, along with links to ODNR fact sheets.

Invasive Plants of the Upper Midwest, by Elizabeth Czarapata, 2005, University of Wisconsin

A well-written, comprehensive guide to the identification and control of invasive plants.

The Dirty Dozen The 12 most invasive plants in the Glen

How many are in your yard? Find out with our chart of the worst offenders.

See page 7

Director's Report to the Community



Nick Boutis

This issue of *In the Glen* sees us dabbling in the rewarding but frustrating domain of managing invasive species. Rewarding, because a group of 20 volunteers, given an assortment of weed wrenches, loppers, and other weapons, can clear an acre of honeysuckle in just a few hours. There is a sweet satisfaction to pulling a 15-foot tall honeysuckle tree out by its roots, knowing that native wildflowers may return as soon as next year. Go ahead — hoist that tree over your head. If no one's watching, bellow at it. Tell that honeysuckle that it no longer has a home in Glen Helen, that its parking space is reserved for spicebush and white oak saplings, that it should go back to Asia where it belongs. Now what could be more satisfying than that?

But it is frustrating work as well, because having cleared that acre, you turn around and see 999 more that await your effort. And the math sinks in. If we are able to clear an acre a year, it will take us a thousand years to finish the job. Which leads to the hard questions: Do we plod forward, resolving to finish the job, even if it takes until the next millennium? Do we just throw in the towel? Or, do find a way to accelerate our efforts, bringing in more people and more tools until we can take the task from a 1000-year plan down to, say, a 10-year plan? I know which I would choose...

But beyond these hard questions, why tell this tale if there is nothing we can learn from it. Please consider these as possible morals to this story

- We should tread especially lightly when the consequences of our actions are uncertain. Nearly all the invasive plants we now struggle to contain were purposefully introduced into the Ohio landscape.

- Nature is incredibly resilient. Sometimes we can use that to our advantage. Just as a stand of honeysuckle is hard to kill, the native wildflowers that once peppered that same hillside may be lying dormant beneath its smothering branches. If we can remove the invasives, we can give our natives another chance to prosper.

- And a semi-rhetorical question: If diligence now will produce the reward of a healthier environment, what result will inattention produce?

— Nick Boutis (nboutis@antioch-college.edu)

Glen Helen Calendar Photo Contest

Each year, we receive hundreds of spectacular photos of Glen Helen. Only 13 can be included in the annual Glen Helen calendar! Have you taken some special pictures in the Glen? We need photos that show the preserve throughout the year. Landscape-format pictures work best. Complete entry forms are available online at www.glenhelen.org, and can also be picked up at the Glen Helen Building, 405 Corry St.

The submission deadline is June 4th. Be sure to turn your photos in at the Glen Helen Building Offices by 4:30 pm.

Enchanted Forest Ball

**Saturday, June 16, 8 pm – 12 midnight
Glen Helen Building**

Once a year, the Glen Helen Building is transformed into a wild, fantastical forest. Colored lights and giant flowers beckon visitors for our biggest party of the year — the Glen Helen Association Enchanted Forest Ball!

Featuring live music on the dance floor, great food, a well-stocked bar, and fun, fun, fun. Plus, all proceeds benefit the Glen!

Friends Music Camp Concert

**Saturday, July 28, 7:30 pm
Kelly Hall, in Main Building on the Antioch College Campus**

For the second straight year, the young musicians at the Friends Music Camp have pledged that proceeds from their annual concert will benefit Glen Helen. In 2006, these gifted performers astounded audience members with their range and virtuosity. By the time they wound up the evening with their traditional all-camp chorus, everyone was on their feet for a rousing ovation.

Tickets are available in advance at the Glen Helen Nature Shop, or, while supplies last, can be purchased at the door on the night of the performance.

Volunteers Tackle the Outdoor Education Center

Despite the nip in the air, twenty-three volunteers donned their green overalls and came out to the St. Paddy's Volunteer Work Day at the Outdoor Education Center on Saturday, March 17. The diverse bunch, from a Glen Helen board member to a Fairborn High School service group, and many community folks in between, made a huge impact on the overall look and condition at the Outdoor Education Center.

Three teams worked hard in the morning before sitting down to a pizza, salad and soup buffet (a feast made possible from a donation by Bentino's Pizza). They were so dedicated they went right back to work after lunch!

Team Kitchen made staff cook Sue Harphant's dreams come true when she arrived Monday to see scrubbed floors, shiny stove vents, and walls without the usual splatter marks. Martha Stewart would be proud.

Team Dorm did an outstanding job of sprucing up the living quarters for the school groups that stay there each week. Walls, bathrooms, floors and windows were given a much-needed polish.

Team Mulch didn't flinch when they saw the six cubic yards of mulch towering before them. With wheelbarrows and pitchforks in hand, they spread the shredded bark around the fire pit, office, lodge entrance, climbing wall and amphitheater in what seemed like record time.

It was a Herculean effort and we're sure the children, parents and teachers who came to School Camp afterwards noticed a big difference. The Glen Helen staff would like to thank the volunteers who participated.

— Cindy Steffen

In the Glen

is published quarterly for Glen Helen Association members and other friends of the Glen Helen Ecology Institute. Send comments and suggestions to *In The Glen*, 405 Corry Street, Yellow Springs, OH 45387.

Editor: Nick Boutis

Contributors: Nick Boutis, Don Hollister, Beth Krisko, Betty Ross, Ann Shaw, Cindy Steffen

Design: Bob Bingenheimer



Team Dorm: Debbie Schmidt, Beth Scott, Julia Valentine, Joe Valentine, Aimee, Kersten & Megan Ginnever, Diana Partee, Brian Walters.



Team Kitchen: Mel Fine, Sheila Miller, Laura Toscani-Hardman, Shannon Stireman, Mary Mahr, Kathleen Boutis.



Team Mulch: Nick Jaramillo, Wally Rehm, Jeanne Ulrich, Cathy Phillips, Macy Reynolds, Linda Wei, Amour Inman, Alexandra Hebert.

Ed. Note: With this issue of *In the Glen*, we bid farewell to Cindy Steffen, who ably served as our Volunteer Coordinator from 2005 through April of this year. Many people that worked with Cindy may not have realized that not only did she ably coordinate the volunteers for the front desk, nature shop, mailing parties, cleaning/repairing blitzes, Trailside Museum, Glen Guides, Habitat Healers, etc, she also found time to pinch-hit as our PR and publications person, and worked to advertise our events, plus produce materials like our wonderful calendar. We're terribly sorry to see her go, but wish her the best with her new adventures.

Summer at a Glance – Upcoming Events

June

Art in the Atrium – Miami Valley Art Quilt Network

Fri, June 1- July 15, Glen Helen Building

Wildflower Walk

Sat, June 2, 10 am, Trailside Museum

Calendar Photo Submissions Due

Mon, June 4, BY 4:30 pm, Glen Helen Building

Wildflower Walk

Sat, June 9, 10 am, Yellow Springs Parking Lot

Reptile Feeding

Sat, June 9, 11 am, Trailside Museum

Evening Bird Walk

Wed, June 13, 7 pm, Trailside Museum

Wildflower Walk

Sat, June 16, 10 am, Trailside Museum

Edible & Useful Plants – For Camping & Hiking

Sat, June 16, 6 pm, Trailside Museum

Enchanted Forest Ball

Sat, June 16, 8 pm –12 midnight, Glen Helen Building

Summer's Round the Corner Medallion Hike

Father's Day, Sunday, June 17, 9 am, Trailside Museum

Glen Helen Association Board Meeting

Wed, June 20, 7 pm, Glen Helen Building

Falcon Program & Release

Thu, June 21, 1:30 pm, Outdoor Education Center Meadow
Bring a blanket or lawn chair.

Wildflower Walk

Sat, June 23, 10 am, Yellow Springs Parking Lot

Full Moon Hike

Fri, June 29, 9 pm, Yellow Springs Parking Lot

Wildflower Walk

Sat, June 30, 10 am, Jacoby Road Canoe Launch (Off Clifton Rd.)

July

Glen Helen Ecology Institute Offices Closed

Wednesday, July 4

Reptile Feeding

Sat, July 7, 11 am, Trailside Museum

Bird Walk

Sat, July 8, 9 am, Trailside Museum

Owl Program & Release

Thursday, July 12, 8:00 pm, Horace Mann Meadow
(Off Bryan Park Road near John Bryan State Park)
Bring a blanket or lawn chair.

Edible & Useful Plants - Summer Mushrooms

Sun, July 15, 6 pm, Trailside Museum

Art in the Atrium – Mildred Manny

Mon, July 16 – Aug 31, Glen Helen Building

Wildflower Walk

Sat, July 7, 10 am, Jacoby Road Canoe Launch (Off Clifton Road)

Glen Helen Association Board Meeting

Wed, July 18, 7 pm, Glen Helen Building

Glen Helen Ecology Institute Board Meeting

Thu, July 19, 7:15, Glen Helen Building

Wildflower Walk

Sat, July 21, 10 am, Trailside Museum

Friends Music Camp Benefit Concert

Sat, July 28, 7:30 pm, Kelly Hall, Antioch College Campus

Full Moon Hike

Sun, July 29, 9 pm, Yellow Springs Parking Lot

AUGUST

Wildflower Walk

Sat, August 4, 10 am, Yellow Springs Parking Lot

Reptile Feeding

Sat, August 4, 11 am, Trailside Museum

Glen Helen Association Board Meeting

Wed, August 15, 7 pm, Glen Helen Building

Medallion Hike to the Prairie

Sat, August 18, 9 am, Trailside Museum

Edible & Useful Plants - Wild Soup & Salad

Sat, August 18, 6 pm, Trailside Museum

Bird Walk

Sat, August 25, 9 am, Trailside Museum

Full Moon Hike

Mon, August 27, 8 pm, Yellow Springs Parking Lot

Friends of Glen Helen e-mail network

It's the best way for you to communicate with Glen Helen Staff.

It's our best way of sharing information with you.

It's free and available to all supporters of the Glen.

Join today by simply sending a message to friends@www.glenhelen.org.

Outdoor Education Center

Tales from the Front

The Outdoor Education Center's Winter/Spring term is coming to a close. The intern naturalist staff of twelve has worked incredibly hard to give the best possible experiences



School Camp attendees spent a week getting to know the Glen and more about their relation to nature.

to the schoolchildren that visit the Glen, ensuring a successful season of School Camp. What a difference these interns make on the lives of young people as they teach, inspire, and challenge students to think about the environment in new ways.

Likewise the students have an impact on the naturalists. They surprise the staff with their curiosity and interest, they raise questions that challenge, and most noticeably, they bring joy and laughter to camp. After thirteen weeks on the trails with kids, the Naturalists are able to reflect on some of their funniest moments teaching kids in the Glen. Here are a few of them:

Our twenty-three year old intern Kristin told her trail group of 2nd graders that the barn next to the Farmhouse was built in the 1860s. One of the 2nd graders asked, "Is that when you were born?"

During a sharing circle at the culmination of the week's activities, a 5th grade student in David's group was taking her time sharing her thoughts about her experiences at the Glen. Another student grew impatient and said, "Hurry up with this sharing before Angelina Jolie adopts another baby."

During a visit to the Raptor Center, a boy in Kristin's group asked while peering into

the vulture's cage, "Is that a mouse's brain or just cheese?" Another student answered, "Mice don't have brains!"

During an owl talk with a group of 2nd grade students, Raptor Center Assistant, Jaime, asked the students for some examples of nocturnal animals. A student raised her hand and answered in a soft voice, "rabies."

While visiting the broken dam, Whitney had her trail group observe it and try to figure out what the structure was. One 5th grader in her trail group raised his hand and said, "I think I know what it is, but I don't want to say it because it's a bad word."

It is no wonder that past interns look upon their work at the Outdoor Education Center with fond memories. There is no shortage of things to smile about! The kids make each day and each hike, a new and enjoyable experience. Each student that comes to the Glen offers new experiences and challenges for the Naturalists, and many offer fun memories to add to the collection above.

— Beth Krisko (bkrisko@antioch-college.edu)

EcoCamps at the Outdoor Education Center



EcoCamps are exciting alternatives to recreational camps, where children explore, discover, and learn in the outdoors. Each camp has a unique theme designed to inspire kids and bring them closer to nature. Choose from a variety of camps, including Frontier Ohio, where kids get an inside view of what life was like in the late 1700s, and Night Camp, where children stay up during the night to explore the nocturnal world. Day camps and/or overnight camps are available for children aged five through fourteen.

Visit www.glenhelen.org to register on-line, or call the Outdoor Education Center for a brochure and registration form.

GHA Notes

One of the most frequently asked questions from visitors to the Glen Helen Building, behind "Where are the birds?" and "Do you have a bathroom?" is "What is the difference between the Glen Helen Association and the Glen Helen Ecology Institute?" Allow us to set that record straight...

The Glen Helen Ecology Institute is the staff and programs of the Glen. In its role as an operating unit of Antioch College, the Ecology Institute runs the Outdoor Education Center, the Raptor Center, and Trailside Science Museum, plus manages the land. In all these efforts it is supported by the Glen Helen Association. The Association, or "GHA", is a "Friends-of" organization that provides the core of financial support for the Glen through the contribution of its members. Our members are the donors and volunteers who enable all the programs of the Glen to function.

The Association also acts as advocates for the Glen, and has twice saved the preserve from major threats — first when a highway project was proposed, and later when a sewer line was planned to run through the heart of the Glen.

The GHA also builds support for the Glen through events that we traditionally host. Each year, people throughout the region look forward to our annual Enchanted Forest Ball, Pancake Breakfast, Bird Seed Sale, and Nature Arts and Crafts Show.

The Nature Shop is another way that the GHA supports Glen Helen. Our volunteers staff two shifts, seven days a week to keep the shop open and well-stocked with bird feeders, greeting cards, books, clothing, plus a host of toys. When you visit the Nature Shop to pick up a T-shirt or book or the latest Glen Helen calendar, be sure to acknowledge the hard work of the volunteer on the other side of the counter. He or she is there because of their love for the Glen.

We are now in the midst of a membership drive, aimed at ensuring that *everyone* who enjoys the Glen understands their role in caring for the continued health of the preserve. If you haven't become a member yet, why not make today the day!

In Appreciation

Gifts to the Glen

We are profoundly thankful for the following contributions received between our previous newsletter deadline on December 31, 2006 and April 15, 2007. All of our efforts on behalf of Glen Helen are made possible by the generosity of our donors and volunteers. We appreciate your continued support.

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Young's Jersey Dairy

GHEI Mission Statement

The Glen Helen Ecology Institute exists to protect the Glen for present and future generations. The GHEI fulfills its mission by engaging in land stewardship, education, community outreach and service, and research.

Glen Helen Advisory Board

Kara Anastasio, Wayne Carmichael, Marilyn Faulconer, Mel Fine, Tom Haugsby, Bryan Hawkins, Michael Krug, Ron Lewis, Mark Meister, Nancy Nery, Virginia Paget, Bob Parker, David Rubin, Lynn Tobey, Kathryn Van der Heiden, Edward Wingard, Sam Young

Glen Helen Ecology Institute Staff

Nick Boutis, Executive Director;
George Bieri, Property Manager;

Charlene Buster, Office Manager, Outdoor Education Center; Sue Harphant, Cook; Ray Harphant, Glen Helen Crew Leader; Beth Krisko, Director, Outdoor Education Center; Rebecca Jaramillo, Outdoor Education Center Assistant Director; Betty Ross, Director, Raptor Center; Ann Shaw, Assistant Director of Administration

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Our Education Birds— Wildlife Ambassadors and Friends

For the newsletter I usually share stories and highlights of the birds that come in for rehabilitation, so I thought it might be a nice change to write about our permanent resident raptors, wildlife ambassadors that reach so many people. Big Red, a non-releasable red-tailed hawk, was the first resident at the Raptor Center in 1970. Others quickly joined her, one being Buzzy, a turkey vulture, who delighted visitors for almost thirty years. She was even featured in *Ranger Rick* magazine with a story about how she visited a school and threw up on the principal's shoes. Guess that's why she didn't go traveling very often.

Not all of our birds have such strong personalities, but we do become very attached to them. I'm the type who considers my dogs part of the family and I have a tendency to do that with the birds as well. The difference is that they don't return the affection, unless it's an occasional misplaced courtship display. We usually feel closer to the birds we handle, as do audiences who meet them up-close. Solo, our bald eagle, who is on display only, is an exception to that. He's one of our most popular birds for adopting and to visit, partly because eagles are so special, but also because he sometimes communicates quite vocally with visitors.

We are responsible for the birds, so we feel a strong commitment to provide a high quality of life for all of them that spend their lives with us. They live in a beautiful wooded area, are free to move around in their cages, have wild and human visitors to watch, plenty of good food, and except for Solo, live with others. We have a number of mated pairs and quite a few eggs laid each season, as well as other interactions, including some conflicts. Usually, temporarily removing an offender resolves the problem, but one time we had to build a cage within a cage so no one would get hurt.



"Nesting" red-tails, Scarlet and mate Rusty, with friend Artie, a rough-legged hawk

Naturally, breeding season causes the most activity, not only for positive relationships, but also for aggressive and defensive behavior. Bo, our female barn owl, begins laying eggs in the winter and continues through the spring, so her mate Ty "protects" her from all of us for quite a long time. Scarlet and Rusty, our red-tailed hawks, pull sticks into their cage for a nest, the barred owls go into their stump with eggs, although we don't know which one lays them, and even some of our single female hawks produce eggs. Although we aren't permitted to allow the eggs to hatch, when the birds go through these nesting behaviors, it means they are not only physically healthy, but feeling comfortable with their living arrangements.

It also means we may have seasonal behavior issues to deal with, but it's a small price for us to pay to enhance their quality of life. None of them are seriously dangerous, but we do have to be careful at times, and respectful of their strong feet and talons! Varia, a barred owl, was our best example of a "head bopper" through her entire twenty years here. Marcia and Harrianna, Northern harriers, both had a tendency to attack rakes, but that was preferable to attacking us. Some birds have different reactions to men and women, a few don't like hats, several

jump on toes if you forget and wear sandals into a cage, and many take advantage of new naturalists during training,

There are over thirty permanent residents living at the Raptor Center right now. Many of them live very long lives; Solo is almost thirty years old, Rusty and Townie are close to twenty, and many others are over ten years old. Losing one is never easy, even when it has had a long, healthy life, and losing one to a predator or disease is really awful. Nothing could be much worse than what we went through when West Nile virus hit in 2002 and three of our own great horned owls, Karma, Hibou, and Jess died.

Many other people besides staff become attached to the birds, especially those who form a connection with an adoption. Every child that comes to the Outdoor Education Center visits the Raptor Center and enjoys a close-up introduction to one of the birds. Thousands of others visit on their own, or see the birds at special events and scheduled programs. One of my favorite ways to enjoy them, however, is observing them during their quiet times, after a bath, sunning, preening, and relaxing together. You are welcome to come spend a little time with them, too.

— Betty Ross (bross@antioch-college.edu)

Our Adoption Program

The adoption fee is \$75 per year; a photo and certificate will be sent, and a sign will be placed at the bird's cage. You may also request a visit with your bird to a school, scout pack, club, office, or home. The money helps to support not only the adopted bird, but all the birds that come into the Raptor Center needing help. An adoption is a wonderful way for a group to help the Raptor Center, or makes a unique anniversary, birthday, holiday, or memorial gift for someone special.

To set up an adoption for the raptor of your choice, please contact Betty Ross at bross@antioch-college.edu.

Thank you for these renewals:

Joan Barton
In memory of Jake Chappars
Clark County Audubon
Lorena and Greg Helentjaris
Laura Kearns
Licking Heights North (4 birds)
Miami Valley Bird Club (2 birds)
John Seiler and Frances Robbins
Blake Ross
Carol and Michael Soehner
Watts Middle School

Welcome to our adoption family:

Vance and Hudson Cunningham
Lynn Field
Alex Ross
Stuebaker Middle School Roots and Shoots

Upcoming Raptor Events

Falcon Program and Release--Thu, June 21, 1:30pm, Outdoor Education Center Meadow off SR 343 in Yellow Springs.

Young American kestrels will be released for Eco-Campers. You are invited to join us and to visit the Raptor Center afterwards with Raptor Campers as your tour guides. Bring a blanket or lawn chair.

Owl Program and Release--Wed, July 11, 8pm, Corps of Engineers Visitor Center, C.J. Brown Reservoir and Dam near Springfield

Call 937-325-2411 for directions. The program will feature owls of the area and conclude with the release of young screech-owls.

Owl Program and Release--Thu, July 12, 8pm, Horace Mann Meadow off Bryan Park Road near John Bryan State Park

The program will feature owls of the area and conclude with the release of young screech-owls. Parking is available in the meadow; bring a blanket or lawn chair.

The Dirty Dozen

The 12 worst invasive plants in Glen Helen

No.	Name	Why it's so bad	Cruel ironies
1	Garlic Mustard (<i>Alliaria petiolata</i>)	Count the ways... It grows fast It harms the soil that other plants depend on Its seeds last for years in the soil It rapidly invades new areas	Introduced in the late 1800s as a potential food crop, although reviewers report that it doesn't taste as good as either garlic or mustard
2	Bush Honeysuckle (<i>Lonicera Maackii</i>)	First to leaf out in spring, last to drop leaves in the fall, the bush honeysuckle has become the dominant species in many parts of the Glen. When its branches become thick enough, nothing grows beneath it.	Not so long ago, farmers were encouraged to plant this bad, bad plant.
3	Wintercreeper (<i>Euonymus fortunei</i>)	Euonymus has penetrated some of the best wildflower habitat in the Glen, and where it grows, it forms a thick green mat that smothers all other plants.	Still sold as groundcover, this species is widely found in Yellow Springs and surrounding communities.
4	Common Privet (<i>Ligustrum vulgare</i>)	Privet is now present in an estimated 30% of Glen Helen. Like many other invasives, it forms dense thickets that crowd out native species.	This species name is practically synonymous with hedgerows; hedgehogs not included.
5	Oriental Bittersweet (<i>Celastrus orbiculatus</i>)	This fast-growing vine can form stands so dense that it kills the trees on which it grows. Its orange berries are spread far and wide by birds.	Widely available as an ornamental plant (still sold for that purpose).
6	Japanese Knotweed (<i>Polygonum cuspidatum</i>)	Fast growing, crowds out other species, very hard to contain or kill.	This tough, hard-to-kill plant has even been known to poke up through asphalt.
7	Multiflora Rose (<i>Rosa multiflora</i>)	Forms dense thickets that prevent other plants from growing. An individual plant can produce a half million seeds a year. And it has thorns.	Farmers were originally encouraged to plant Multiflora Rose in the 1930s to control erosion, then in the 1950s as a livestock barrier, then in the 1960s as food and cover for wildlife. Now it is illegal to plant in many states.
8	Japanese (vining) Honeysuckle (<i>Lonicera japonica</i>)	Like other invasive vines, Japanese honeysuckle is capable of killing the trees and shrubs it grows on. If left unchecked, it forms a dense cover that crowds out wildflowers as well.	It thrives in the edge habitats that are common in the Glen.
9	Burning Bush (<i>Euonymus alatus</i>)	With fruit spread by birds, this species is capable of springing up just about anywhere in the Glen.	Still commercially available as a landscape plant.
10	Autumn Olive (<i>Eleaagnus umbellata</i>)	This aggressive spreader is especially dangerous to native species because it fixes nitrogen in the soil, changing the soil chemistry that native plants depend on.	Studies have found that one plant can drop up to eight pounds of fruit annually – fruit that is spread by birds and mammals.
11	Tree of Heaven (<i>Ailanthus altissima</i>)	This fast-growing invader is so named because it can ascend to the heavens at four feet a year. This tree can spread both by seeds and by sending up new shoots from its roots.	What could be more ironic than a foul-smelling, nearly indestructible tree named for Heaven?
12	Cressleaf Groundsel (<i>Senecio glabellus</i>)	This new arrival is a rapid invader. Rarely found in Ohio prior to 1990, it is now throughout the state. A poisonous plant.	Because of its life cycle as a winter annual, some blame no-till agriculture for providing this species a leg up.

Our Wish List

We are seeking items in good condition for educational programs and staff houses. We currently need:

- Photo inkjet printer paper
- Environmentally friendly cleaning products
- DVD player
- TV and rolling TV cart (similar to what is used in schools)
- Folding tables
- Folding chairs
- New or used candles

Please call or email Beth Krisko (bkrisko@antioch-college.edu, 937-767-7648) to arrange a time for pick-up or drop-off.

A Special Thanks to Our Morgan Society Donors

Every little bit of support helps us better protect the preserve and manage our programs. And, larger contributions help a little bit more. We gratefully acknowledge the following individuals and organizations who have joined or renewed membership in the Lucy and Arthur Morgan Society in 2007: Anonymous, Robert Baldwin, Jr., Ruth Bean, Nick and Kathleen Boutis, Dr. Robert Brandt, Jr., Ken and Peg Champney, Mel Fine and Peg Peterson, Stan and Esther Friedman, Glen Helen Association, William and Tara Miller, Amy Munich, The Riding Centre Association, Philip and Esther Rothman, Katherine and John Vassallo.

Glen Helen Nature Preserve

Trails are open daily, sunrise to sunset. All wildlife, vegetation, and natural features are protected. For general information: 937-769-1902

Glen Helen Ecology Institute Administrative Offices

Located in the Glen Helen Building
405 Corry Street, Yellow Springs, OH 45387
Mon-Fri, 9:30-4:30; 937-769-1902
For facility rentals: 937-769-1903

Trailside Science Museum

505 Corry Street, Yellow Springs
For information on hours, walks & programs:
937-767-7798 or 937-767-7648

Outdoor Education Center

Residential environmental education center for school groups and summer EcoCamps.
1075 State Route 343, Yellow Springs
937-767-7648

Raptor Center

Raptor education and rehabilitation center
Visitors are welcome to visit the center and see the resident birds.
1075 State Route 343, Yellow Springs
937-767-7648

Glen Helen Nature Shop

Located in the Glen Helen Building
405 Corry Street, Yellow Springs
Mon-Fri, 9:30-4:30; Sat-Sun 10-4;
937-769-1905

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405 Corry Street
Yellow Springs, Ohio 45387-1895
Phone 937.769.1902
Fax 937.769.1910
www.glenhelen.org

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