

# Native Plant

SPRING/SUMMER 2018

FOR OUR MEMBERS AND SUPPORTERS

## NEWS

## How Will Climate Change Affect Invasive Species?

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## Native Plant News

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Charles T. Bryson, USDA Agricultural Research Service, Bugwood.org



**On the Cover:** Watch out for this plant! Red sesbania (*Sebania punicea*), now growing in southeastern and western states and listed as invasive in several, will likely find suitable climate in New England by 2050. See page 4.



## From the Executive Director



### RAISE YOUR VOICE

In my letter for last spring's magazine, I clanged an alarm bell about an administration "intent on gutting environmental regulations and slashing funding for programs that protect land, water, and the air we all breathe." In January of this year, the New York Times published an update to its list of "67 Environmental Rules on the Way Out," based on research from Harvard Law School, Columbia Law School, and other sources. That's 67 rules in a single year. We owe it to ourselves and the planet to ignore the staged noise and pay attention to the substantive changes behind the curtain.

Consider the impact on all living things of pulling out of internal environmental treaties; rolling back regulations on industrial polluters, power plants, sewage treatment facilities, vehicle emissions, and offshore drilling; and lifting protections for whales, sea turtles, migratory birds, and the habitat for endangered species. And think about the mindset that scraps climate action plans for national parks and scrubs agency handbooks of science-based guidelines for managing 500 million acres of public land facing multiple stressors and climate impacts. Policies that capture years of best practices are disappearing—along with experienced staff.

All of this is happening without any public debate or, in most cases, without input from scientific advisory panels with actual scientists. And that's where you come in. Our elected officials are not hearing much from the environmental community—in large part because we the people are busy contacting them about all the other things we value. But in politics as elsewhere, squeaky wheels get attention. So I urge you to stay informed about agency proposals and budgets, and then raise your voice to call for laws, regulations, and the necessary funding to protect the planet.

For our part, the Society works with agency staff directly or through national partnerships, such as the Plant Conservation Alliance and Native Plant Conservation Campaign, to ensure plants are not overlooked in management and funding decisions and to advocate for stronger protections for endangered plants. Our actions will be more effective if together we insist that every day is Earth Day.

Sincerely,

Debbi Edelstein

## Coauthors of the Society's Latest Book Give *NPN* the Backstory

By Jane Roy Brown, Writer-Editor; with Mark Richardson, Director of the Botanic Garden; and Dan Jaffe, Propagator and Stock Bed Grower at Garden in the Woods



Mark Richardson

### ***NPN*: Why this book, now?**

**MR:** For years, Dan and I have talked about writing a native gardening book to update earlier titles from the Society, because we have refined our definition of native. Then, last year, someone from Globe Pequot Press asked me if I had any book ideas.

**DJ:** We knew there was an audience. We teach about gardening with native plants, and people always ask us, when are you going to write a book?

### ***NPN*: How has the Society refined the definition of native?**

**DJ:** For horticultural purposes, we now use ecoregions, which are based on climate, geology, and other factors, rather than political boundaries like state lines, to define where species are native. New England has six states but only five ecoregions.

**MR:** Most of the 100 plants in our book are native to all of our ecoregions. We wanted to focus on geographically wide-ranging species. And we wanted them to be gorgeous, easy to grow even for novices, and suitable in a variety of conditions.

### ***NPN*: Are there any surprising plant choices?**

**MR:** For people who love unusual plants, we tucked in some less common species, such as flowering spurge (*Euphorbia corollata*), spotted bee-balm (*Monarda punctata*), and Bowman's-root (*Gillenia trifoliata*). And we suggested less familiar ways to use common plants, like growing wild geranium (*Geranium maculatum*) for its beautiful fruits or wild strawberries (*Fragaria virginiana*) as a lawn substitute.



**DJ:** With native plants, you don't have to give anything up—they're beautiful, many are edible, they're environmentally beneficial, and, when planted in the right conditions, they require next to no maintenance.

### ***NPN*: What are some of the environmental benefits?**

**DJ:** Broadly speaking, native plants provide crucial habitat for pollinators and native insects, which are often the pathway to move plant energy up the food chain. Ordinary plants can hold surprising habitat value. Did you know that hummingbirds collect hairs from the stalks of cinnamon fern (*Osmundastrum cinnamomeum*) for their nests? And that Pennsylvania sedge (*Carex pensylvanica*) supports more pollinators than typical showier species?

**MR:** In the end, what really resonates with gardeners is beauty. You can grow a beautiful garden with native plants, and we've filled our book with stunning examples. 🌿

## Pollinator Palooza: Gardens, Workshops, and More

By Courtney Allen,  
Director of Public Programs

Pollinate New England—the Society's regionwide program to raise awareness of waning pollinator populations—hits the ground this summer, with activities popping up all over. Available right now are two new resources: an online course, "Gardening with Pollinators," and a native-plant database on [www.newenglandwild.org](http://www.newenglandwild.org) to help gardeners choose plants for their home growing conditions.

Starting in June, we will build demonstration pollinator gardens at 12 locations throughout the region provided by partner organizations. (See schedule and locations inside the back cover of this issue.)

Our goal is to showcase native plants that support native pollinators—bees, butterflies, moths, and birds. The garden installations will serve as how-to workshops for homeowners who want to build

similar gardens. Those who cannot come to the daytime workshops can attend evening lectures to learn why and how to expand vital pollinator habitat in their own backyard gardens.

Pollinate New England is made possible by a matching grant from the Institute of Museum and Library Services and by the generosity of donors. *All programming is free and open to the public.* 🌿

## Testing Techniques to Restore Plants on Cadillac Mountain

By Bill Brumback, Director of Conservation

For a third year, the Society is working with the National Park Service to experiment with methods of restoring native plants to the highly disturbed, subalpine summit of Cadillac Mountain in Acadia National Park in Maine. In previous seasons, we have collected seed on the site and either sown it directly into the ground or grown seedlings and transplanted them to test plots. Our goal is to learn which method is cheaper and which more effective. (These outcomes may be mutually exclusive.) Results are yet to come, but we have established that adding organic matter is crucial for growing plants in these depleted soils.

This season, an additional experiment will compare two types of plantings: small plugs and plant “modules”—flats of 12 plants comprising 8 species grown from seed collected on site. A module has two benefits: it can be lifted as a 12 x 16-inch mat and nestled into bare ground, and it can be used on steep slopes with less risk of erosion, because the plants are already



rooted together. Planting single-species plugs, on the other hand, enables us to add plants of the same species as those already growing on the site. Our experiments seek to discern which technique works better in terms of utility, cost, and effectiveness. 🌱

Want to support our native plant Conservation work? Please contact the Philanthropy Department: 508-877-7630, x3802; [development@newenglandwild.org](mailto:development@newenglandwild.org).

## Trials by Fire and Other Torments: Will Bearberry Seed Give Up Its Secret?

By Alexis Doshas, Propagator and Facilities Coordinator, Nasami Farm

Bearberry (*Arctostaphylos uva-ursi*), a low-growing evergreen shrub that thrives in poor, dry soils, is a favorite alternative to turf grass, especially on slopes. Birds and other animals eat its leaves and red fruit. But it is nearly impossible to find genetically diverse, seed-grown specimens in the horticultural trade, because bearberry seed can stay dormant for years. As a result, most nurseries propagate this plant through cuttings from one or two parent plants, producing genetically identical individuals. These contribute to a lack of biodiversity in the designed landscape, putting specimens at risk of being wiped out by diseases or pests for which the parent plants lack resistance.

At Nasami Farm, we are conducting a series of experiments with staff at Greenfield Community College and its laboratory to discover what triggers *Arctostaphylos* seed to germinate. During the winter, we treated the seeds' hard coats with heat, smoke, and chemical baths. We will monitor results over the next 18 months to try and determine the best practices for germination, which could lead to more nurseries growing bearberry from seed—and bolstering the species' genetic diversity. 🌱

## SEEDS FOR HURRICANE SANDY RESTORATION: BAGGED AND TAGGED

By Michael Piantedosi, New England Plant Conservation Program and Seed Bank Coordinator

If you lined up the 868 bags of seeds Conservation staff and interns collected along coastline damaged by Hurricane Sandy in five New England states, the grapefruit-sized sacks would stretch for a few city blocks, or stuff a school bus, floor to ceiling.

The seeds come from plants native to the coastal habitats that were flooded, washed out, or buried by the 2012 superstorm. Over three years, we visited 127 sites and collected seed from more than 215,000 plants.

These represent the Society's contribution to a \$2.3 million initiative, in partnership with the North Carolina Botanic Garden and Mid-Atlantic Regional Seed Bank, to ensure that genetically appropriate plants are available for post-hurricane restoration projects from Maine to Virginia.

Funded chiefly by the U.S. Department of the Interior, the project expanded the federal Bureau of Land Management's largely western-focused Seeds of Success program and represents the first large-scale, coordinated seed-banking effort in the eastern United States. As of the vernal equinox, managers of 14 restoration projects had requested seeds, and 5 of these projects had started. During the next two years, we will distribute the remaining seeds to other projects. 🌱

Our Seed Ark project to collect and permanently store the seeds of all the region's imperiled plants by 2020 is ongoing and needs your support. To donate, please contact the Philanthropy Department: 508-877-7630, x3802; [development@newenglandwild.org](mailto:development@newenglandwild.org).



# Will New England Be an Invasive Species Hotspot as the Climate Changes?

Yes. And no. A leading researcher explains.

By Jenica M. Allen



*At the University of New Hampshire's Department of Natural Resources and the Environment, Assistant Professor Jenica M. Allen, a quantitative plant ecologist, crunches numbers, stacks layers of data, and conducts field experiments to forecast how invasive and native plants could respond to climate change. With colleague Bethany A. Bradley at the University of Massachusetts, Allen led a study on how climate change could alter the geographic distribution of invasive species by 2050. The research points to future invasive species hotspots as well as conservation opportunities.*

Climate change and invasive species are two of the major causes of ecological change. To manage potentially disastrous outcomes, biologists naturally want to understand how these two dynamic, complex processes interact to cause or limit ecological change. Investigating this interaction presents many challenges, however, including the lack of a comprehensive set of examples. Though some studies have documented cases in which a warming climate spurred the spread of an invasive species, it is difficult to find examples of the opposite outcome—that of climate change keeping invasives in check. Consequently, many biologists have assumed that a warming climate would accelerate biological invasions rather than slow or contain them. (We use the USDA definition of invasive species: “an alien species whose introduction does or is likely to cause economic or environmental harm or harm to human health.” All of the species we study appear on state and/or federal invasive species lists.)

But in our recent research, published in the journal *Biological Conservation*, we found that the predicted spread of invasives as the climate changes is not in fact linear. Our research quantified the shifting invasion risks posed by 900 terrestrial plant species that are already present in the continental United States. We did this by assembling data from public and private databases to create one of the most comprehensive such databases to date. Using this powerful tool, we were able to break out the invasion risk for these species by region. For example, New England could be a hotspot for some invasive species now growing in southern and western states, while some invasives that occur here now will shift to the north. More about our region follows, but first, here is the short version of how we came to this conclusion.

Buffel grass (*Cenchrus ciliaris*), above, and tansy ragwort (*Senecio jacobaea*), left, are two invasive plants likely to migrate into New England.

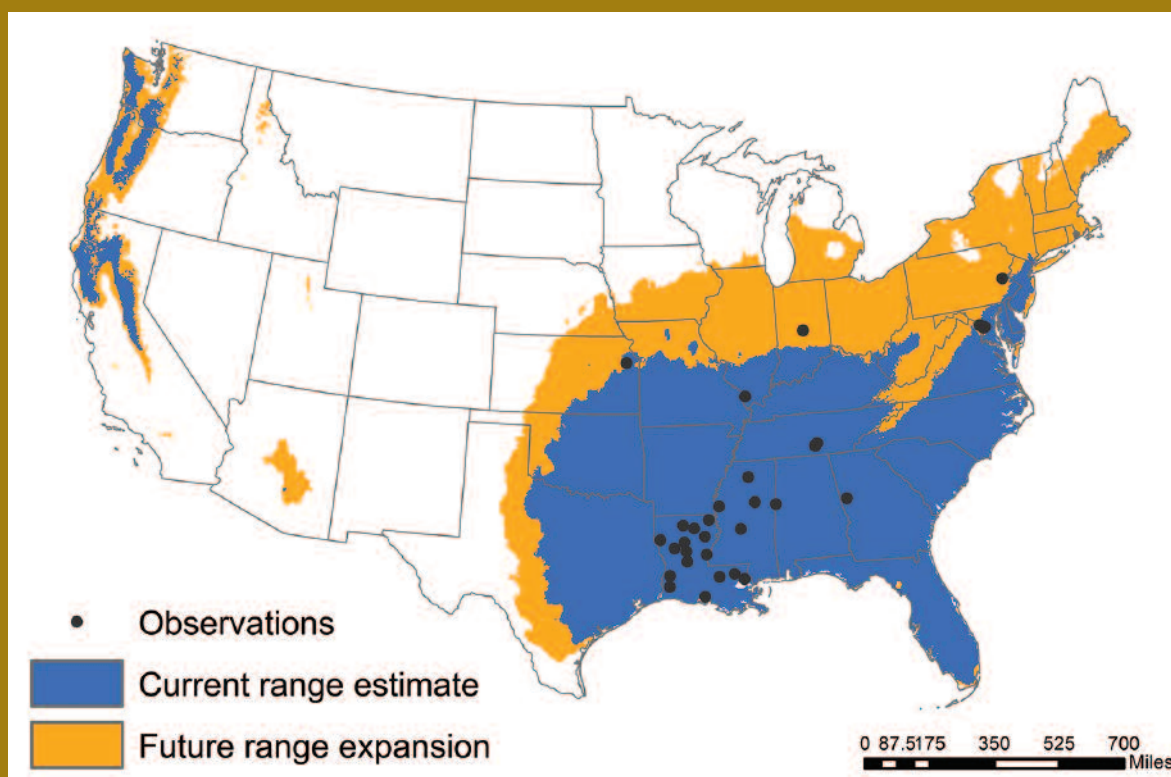
## INVASIVE SPECIES

We began by mapping the species' ranges, because range is one attribute that can be altered by climate change. Although other factors, such as local habitats and soils, also help determine where a species occurs, at large geographic scales, climate is the dominant driver. (Temperature and precipitation are the climate components used in the models.) The geographic areas in which species occur are determined by the species' biology; specifically, in what climatic conditions a particular species can survive. Some species, like buffelgrass (*Cenchrus ciliaris*, formerly *Pennisetum ciliare*), prefer warm, dry climates. Others, like tansy ragwort (*Senecio jacobaea*), favor cool, wet ones. Where the edge of a species' range might contract and expand in the future depends on how its suitable climate moves on a map. So, mapping ranges for an invasive species is the first step in predicting—and ultimately managing—the effects a changing climate will have on native species, agricultural crops, and so on.

Having mapped each species' existing range, we then assembled climate data for that range. We then

correlated species occurrences and climate data to create species distribution models. These models enable us to estimate where a species is likely to occur anywhere on a map, given the climate conditions at a given location, and even if a species has suitable climate in places that have not been sampled yet. The distribution models for each of those 900 terrestrial invasive plants enabled us to estimate the geography of invasion risk with climate change and to project future ranges for these species at 2050.

Because no single model holds true for all climate characteristics in all parts of the world, we used projections from several models to bracket the range of possible future changes in climate. If projections from many models agree, we have higher confidence that the projected event will occur. And, because we do not know how the social, economic, and political factors that dictate greenhouse-gas concentrations will unfold, we needed to represent these variables. The International Panel on Climate Change has conducted studies that produced that data, and we incorporated that into our projections.



### Heading Our Way: Sawtooth Oak (*Quercus acutissima*)

The current range of *Quercus acutissima* stretches from Florida to New York. With changes in temperature and precipitation by 2050, its range could expand into most of southern and central New England.



## WHAT CAN NEW ENGLAND EXPECT?

Our analysis surprised us by predicting that by mid-century, many areas of the continental U.S. may experience fewer impacts from the current pool of invasive species. That sounds like great news, but there are caveats. First, our analysis focused on invasive plants that are already present on the landscape, but new invasive plant species could fill in as the current invasives vacate some areas. Without strong preventive measures in place, this could simply prime the country for a new wave of invasive species. Second, our study predicts that higher-latitude and mountainous areas, which currently have cooler temperatures, are expected to gain invasive plant species.

Range projections under climate change afford those of us who are interested in plant conservation the opportunity to identify and monitor invasive species that may expand into New England. We have identified 140 unique species that have high potential to find suitable climate in one or more New England states by 2050. Though the wide range of environments within the region makes it likely that only a handful of these will find suitable climate in all six states, we need to monitor all 140 species across this large geographic region, as well as to track problem species through state watch lists.

One challenge in identifying the range-shifting species of most concern is that comprehensive analyses of impacts are not yet available. Some species will have multiple types of impacts, such as competition with native plants and changes in soil chemistry. Others may have a single but powerful negative impact. We also recognize that those who monitor for range-expanding plant invaders may focus only on certain types of impacts, which also makes producing unified data more challenging.

To this end, we have begun working on multiple, simultaneous projects to put information in the hands of users, such as botanists who work for state and federal agencies and other members of New England Wild Flower Society's New England Plant Conservation Program. They will be able to prioritize the information according to their needs. Also, impact assessments are underway for all invasive plants predicted to expand their ranges into New England. We are designing these using an adapted version of a method developed in Europe and are including a review of all published literature on impacts for each range-expanding species. We are also building an interactive online tool that provides access to range maps for all the species in our study. Users will also

be able to summarize future range maps by state into a watch list and to filter the listed species according to their immediate needs.

Watch lists may help us prevent range-expanding invasive plants from establishing themselves in our region in the face of climate change. Knowing which species to look for, and where, can help to improve monitoring. Integrating data modeling with ecological knowledge opens many possibilities to get ahead of invasives—and conserve native species—as the climate changes. 🌱



Karan A. Rawlins, University of Georgia, Bugwood.org

Turnipweed (*Rapistrum rugosum*), an invasive annual herb, is poised to expand its range into New England and neighboring states.



Chuck Barger, University of Georgia, Bugwood.org

Sawtooth oak (*Quercus acutissima*), an invasive tree native to Asia, is now established as close as Pennsylvania and will likely find suitable climate here by 2050.



# Two Foragers Feast:

Society Experts  
Cook Up a  
Wild Harvest

By Arthur Haines and Dan Jaffe

Wild plants can play a big role in a healthy lifestyle. Numerous studies show that, on average, wild plants boast more vitamins and minerals, more beneficial phytochemicals (plant compounds), and more fiber than their cultivated counterparts. But one of the most significant advantages of wild foods has nothing to do with human health: They are ecologically adapted to their place, where they grow without fertilizers, irrigation, and intensive human tending. We simply need to gather them. Harvesting them in a sustainable manner—that is, in ways that do not deplete populations over time—can be an environmentally responsible way of obtaining food, especially when borrowing the traditional methods of North American indigenous people, who collected food plants for thousands of years. It is through such vital connections to plants that many people come to understand the value of wild places, the plants that grow there, and the need to protect both.

—Arthur Haines

*To read a more detailed account of how each author prepared his meal, visit our website. And share photos of your own wild-harvest meals on our Facebook and Instagram pages.*



Sara Moore

# Eating Wild during the Ripening Moon

By Arthur Haines, the Society's Research Botanist and author of *Flora Novae Angliae*

*Wild foods are a regular part of my life in western Maine, so the chance to share such a meal with readers is a special occasion. Aside from some herbs and accompaniments, I harvested all ingredients from the forests, marshes, and waters of Maine. I also wanted to include some species that most people today never have tasted. So, passing over the first flush of spring, which produces more familiar wild edible plants, I gathered the food during the time the Maine native people called Accihtewsiket Kisuhs (aht-chee-tew-SEE-ged GEE-zoos), the Ripening Moon (early June through July).*

## MENU

(Courses served simultaneously on a single plate)

### Beverage

Wild grape mead

### Plant side dishes

Boiled glaucous cattail flowers  
(*Typha × glauca*)

Garlic mashed ground-nuts  
(*Apios americana*)

### Main course

Fried brown bullheads (catfish)  
in fresh-ground cornmeal

### Dessert

Fresh wild strawberries  
(*Fragaria virginiana*)

I started by collecting glaucous cattail in a large wetland, where this hybrid between broad- and narrow-leaved species has colonized several hectares of shallow water. The plant's vertical growth over such a large expanse is visually striking, and the constant calls of red-winged blackbirds filled the air during the time I spent in the marsh. The native word for cattail, *pkuwahqiyasq* (pkoo-wah-KWEE-yaskw), means "bog root" or "swamp root." While native people typically ate its rhizomes, I was after the pollen-bearing flowers. Cattail pollen is tedious to harvest, so I follow the practice of some South American indigenous groups by gathering the entire inflorescence (flower head) and consuming both pollen and flower parts. This wild food contains significantly more vitamin C than citrus fruits, as well as calcium, iron, fiber, and protein.

Facing page: Fruits of wild strawberry at peak ripeness and maximum flavor.

This page:

Left: The author in a large cattail marsh gathering the pollen-bearing portion of the inflorescence for use in the featured wild meal.

Right: The gathered pollen-bearing spikes, which will be unsheathed from any bracts, briefly rinsed, and then cooked.



Several of the gathered ground-nuts with the wooden tool used to loosen the ground around them.



Brown bullheads, a species of catfish, caught by hook and line from a section of fresh tidal river in mid-coast Maine.



Prepared meal with garlic-mashed ground-nut tubers (lower), cattail pollen-bearing flowers (center), brown bullhead filets (upper), and wild strawberries (sides).

The inflorescence of cattail consists of a pollen-bearing spike rising above an ovule-bearing portion. To gather the pollen-bearing flowers, I detach only the top parts, leaving intact the ovule-bearing flowers to be wind pollinated. I peel off any remaining sheathing bracts, then rinse and boil the spikes for five to six minutes. Like corn on the cob, they taste wonderful with melted butter, and, like corn cobs, you eat the flowers by rotating the central spike. The flavor is refreshing, like a blend of corn and greens.

Next, I gather common ground-nuts, or *ktahkitom* (ktah-KEE-dum). The “nuts” are actually starchy tubers, ranging in size between acorns and walnuts, that grow along a thin underground rhizome. They taste a bit like potatoes, but nuttier. (*Caution: Do not eat raw ground-nuts, because they contain compounds that interfere with protein metabolism. Cooking renders these inert.*) They contain almost three times more protein and significantly more calcium and iron than cultivated potatoes, and are rich in genistein, an isoflavone. (Isoflavones function as antioxidants.) I peel and boil the tubers for about 30 minutes, then mash them with a fork with sautéed garlic and a dash of raw Jersey cream. (Jersey cow milk is notably rich in protein, calcium, butterfat, and other nutrients.)

For the animal portion of the meal, I chose brown bullhead (*Ameiurus nebulosus*), a species of catfish native to Maine, which Maine’s indigenous people called *motepèhs* (muh-deh-BASS): an unseen animal that sloshes around in the water. Abundant in the tidal waters of Merrymeeting Bay in the state’s mid-coast region, they have a mild flavor that pairs well with many foods. At this time of the year, brown bullheads are spawning, so it was relatively easy to catch several with hook and line. (I immediately and humanely dispatch any fish I catch.) Also, spawning females provide roe for those who enjoy this prized traditional food. Brown bullheads are generally filleted to remove their many fine bones. I soak the fillets in cold water overnight to eliminate the sometimes muddy flavor bullheads can acquire. I coat the soaked fillets with fresh-ground corn flour and herbs and fry them in a generous dollop of rendered black bear fat, which is similar to lard.

For the final plant course, I was seeking color and a little sweetness. At this time of year, wild strawberries grow abundantly around my home, where I often pick them with my daughter, Samara. I gather a heaping palmful for the meal. Maine’s native people call strawberries *pskihqiminsok* (pkee-kwee-MEEN-sug), or “grass berries,” similar to the English word—although technically, strawberries are not a berry but an aggregate of achenes, or dry, usually single-seeded fruits. Wild specimens, though smaller than cultivated ones, are tastier and higher in the phenolic compounds that support health.

With this menu, I pair a homemade grape mead, a kind of wine in which honey is used as the sugar for fermentation. This mead incorporates three different species of wild grape native to Maine: fox grape (*Vitis labrusca*), river grape (*V. riparia*), and their hybrid, New England grape (*Vitis × novae-angliae*). The combination yields a fruity, mildly alcoholic drink with a small amount of carbonation, delicious to sip during and after the meal. 🍷



# Backyard Foraging in the 'Burbs

By Dan Jaffe, Propagator and Stock Bed Grower at Garden in the Woods

*Creating a wild-food menu at the height of our growing season means working with an optimal variety of ingredients, so the bigger challenge was to construct the framework guiding my choices: Should I use only wild ingredients? Include nonnative species or preserved wild ingredients harvested previously? Because I live in metropolitan Worcester, MA, I decided to take a flexible approach focused on flavor, combining unique flavors found only in foraged foods (several of which I grow at home) with ingredients sold in stores. This allowed me to create dishes anyone can make.*

## MENU

### Cocktails

Cucumber Hyssop Hiccup  
(Anise hyssop, *Agastache foeniculum*)

### Starter

Ground-nut chips  
(American ground-nut, *Apios americana*)

### Plant side dishes

Scalloped sunchokes (*Helianthus tuberosus*)

Wild rice (*Zizania palustris*) with  
ramps (*Allium tricoccum*)

### Main course

Sautéed salmon topped with ramps  
(*Allium tricoccum*)

### Dessert

Vanilla ice cream with wild strawberry (*Fragaria virginiana*) and bee-balm (*Monarda didyma*) sauce

In my opinion, a great meal starts with cocktails and finger food. One of my favorite combinations is Cucumber Hyssop Hiccup cocktails served with ground-nut chips, shallow-fried with salt and cracked pepper. I craft the cocktail with anise hyssop, a species native to the Acadian Plains and Hills ecoregion, one of the five New England ecoregions. I grow this sun-loving plant at home in a semi-wild meadow. Its anise-tinged sweetness is wonderful in cocktails. Even if you think you don't like anise, give this a try—this drink has converted nonbelievers. Anise, lime, and vodka make for a powerful flavor trio, and the cucumber mellows it into a smooth libation. If you're willing to lose the cocktail's whimsical name, substitute scarlet bee-balm (*Monarda didyma*) or wild bergamot (*Monarda fistulosa*) for anise hyssop. (The hiccups come later, after you've forgotten how many of them you've had.)

Finger food doesn't get much better than freshly fried potato chips, but ground-nut chips are just as crisp and add a dimension of sweet, rich nuttiness. The combination of their sweetness and some added salt and freshly ground black pepper makes these tubers pair well with just about any drink. Next time, try replacing black pepper with cumin or red pepper flakes.

As the vegetable side dish, I chose sunchokes, a.k.a. Jerusalem artichokes. They're tubers like ground-nuts, and both

This page:

Left: Ground-nuts and sunchokes are tastier than they look before cooking.

Right: Ramps are rare in the wild, so these were grown in garden containers.



Dan preps anise hyssop leaves for cocktails.



Ramps, rolled and sliced, top the salmon for the main course.



Salmon topped with ramps nestles on a bed of wild rice and ramps.

are ready to harvest at the same time in the fall. I grow these common plants together in a barrel-sized container, because these vigorous perennials would soon overrun my small backyard. Sunchoke flower stalks can reach heights of 14 feet, so I cut them back at least once before summer. Ground-nut is a vine, which will twine up the sunchoke stems. Watch for their dusky-pink flower clusters emerging in midsummer, ahead of the yellow sunchoke flowers that bloom in fall. Sunchoke tubers are tasty prepared in a lot of different ways, but in my kitchen, good things get better with onions, cream, and lots of cheese. Like potatoes, these tubers hold their firmness when sliced and baked with these ingredients.

Though it would be hard to choose, ramps could take the prize for the region's tastiest wild native plant. Whether raw or cooked, this wild onion has a mild, sweet flavor reminiscent of Vidalia onion, and it can be used in a variety of ways. (*NOTE: Because ramps are a rare plant in New England, I harvest only home-grown specimens and leave wild populations alone. Ramps are easy to cultivate in a raised bed filled with rich soil and compost, with regular additions of leaves or leaf mold. The first harvest, in early spring, yields the most tender shoots, while later harvests provide leaves with more texture.*) This meal uses ramps in two ways: cooked into the wild rice, adding a rich background flavor; and as a soft, yet complex topping for the salmon.

For the rice, I sauté the ramps in butter with sliced garlic. I add water and uncooked rice to this mixture, so that the flavors infuse the rice as it absorbed the liquid. For the salmon, I sauté the ramps with brown butter and lemon and set them aside. I cook the salmon in a heavy frying pan and serve it on a bed of wild rice, place the cooked ramps atop the salmon, and squeeze fresh lemon over both before serving.

Many cooks prefer cooking dessert after dinner, which requires a simple recipe that can be whipped up fast. Strawberry-bee-balm sauce, good over ice cream or cake, is simple to make and tastes anything but. The leaves of scarlet bee-balm (*Monarda didyma*) can be harvested as soon as they emerge in spring and through the summer. In a saucepan, I cook minced bee-balm leaves with sugar and the wild berries until the mixture is a little runny. Wild strawberries (*Fragaria virginiana*) deliver a burst of intense sweetness that is perfectly grounded by the earthy notes of the bee-balm leaves. 🍷



Bee-balm leaves add earthy notes to wild strawberries for a dessert sauce.

## MESSAGE FROM THE TREASURER

In 2017 the Society continued its record of success in core programs and ended the year in a strong financial position. In addition, the Society made progress on its goal to substantially increase the endowment.

The Society continued to attract support for key initiatives and ended the year with an operating surplus of \$130,280 and with \$782,331 in purpose-restricted funds on hand. The Board of Trustees also voted to reserve an unrestricted bequest of \$265,989 for capital improvements.

The performance of the endowment, managed since 2002 by the Investment Committee, reflected general market trends and earned 16.1% in 2017. The endowment portfolio—corpus plus appreciation—was \$6,335,736 as of December 31, 2017.

Net assets increased this past year from \$10,615,806 to \$14,240,255, largely due to a \$3 million pledge to the endowment, in the form of a Charitable Remainder Unit Trust.

Thanks to the hard work of our Board, dedicated staff, committed volunteers, and the generous gifts of our many members and supporters, the Society had a successful year in 2017.

Sincerely,



Janet Ganson

## Fiscal Year 2017 Operating Results

### Income

Grants and Contributions	\$	1,918,159
Program Income	\$	598,738
Membership Dues	\$	250,730
Investment Income	\$	231,815
<b>Total Income</b>	<b>\$</b>	<b>2,999,442</b>

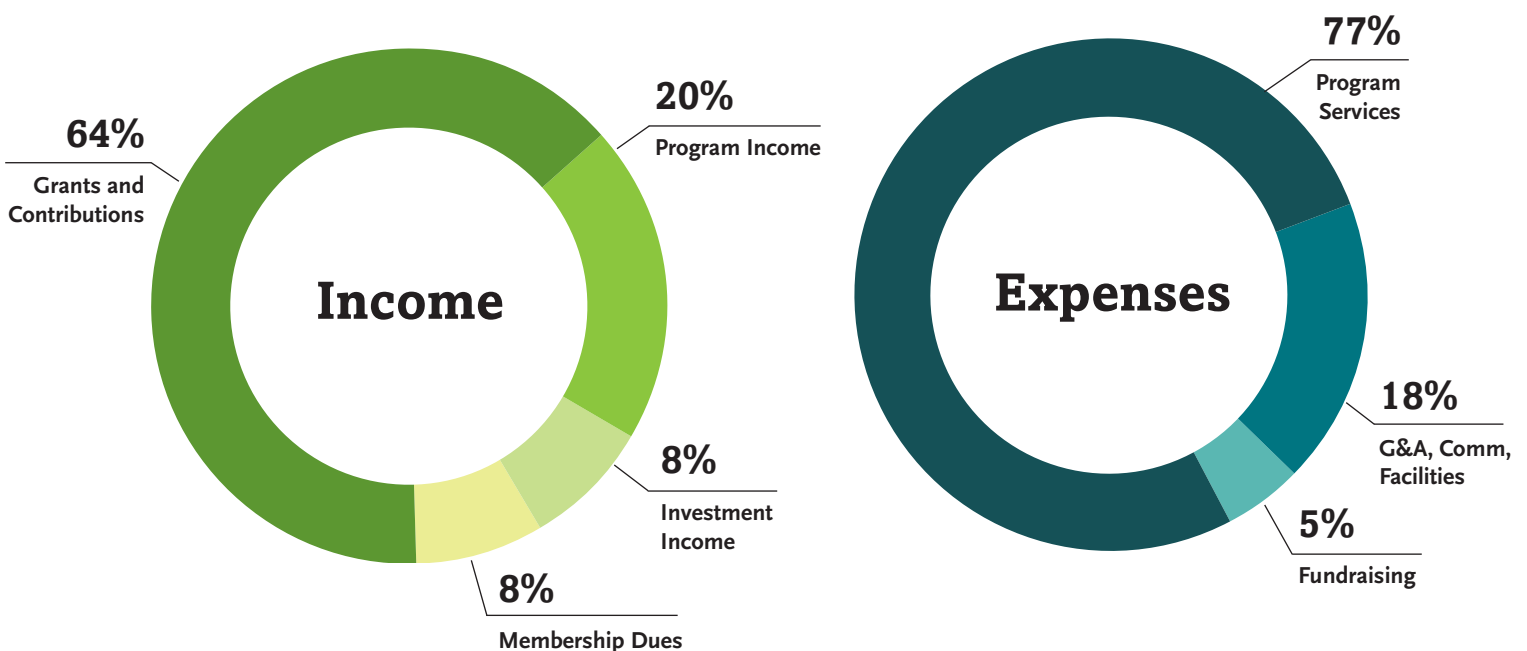
### Expenses

<b>Program Services</b>		
Conservation & Sanctuaries	\$	768,660
Horticulture	\$	620,128
Education	\$	344,277
Member Services	\$	220,527
Retail Shops	\$	255,307
<b>Total Program Services</b>	<b>\$</b>	<b>2,208,899</b>
<b>Support Services</b>		
G&A, Comm, Facilities	\$	524,051
Fundraising	\$	136,212
<b>Total Support Services</b>	<b>\$</b>	<b>660,263</b>

<b>Total Expenses</b>	<b>\$</b>	<b>2,869,162</b>
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<b>Operating Surplus</b>	<b>\$</b>	<b>130,280</b>
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**Note:** A complete copy of the audited financial statements is available on our website or upon request by emailing [twillmott@newenglandwild.org](mailto:twillmott@newenglandwild.org).



# Celebrating Your Support

Our ambitious vision is for landscapes where New England's native plants exist in vigorous populations within healthy, evolving ecosystems. In this section, we are delighted to thank everyone whose financial support has helped conserve, promote, and protect native flora. We celebrate friends like you who understand that plants are the cornerstones of life on our planet!

## CONSERVATION CIRCLE AND LEADERSHIP GIFTS

The total giving noted below for fiscal year 2017, ending December 31, reflects restricted and unrestricted gifts, membership dues, and pledges. Our Conservation Circle honors individuals whose generous personal philanthropic support reached \$1,000 or more. Leadership gifts and grants from companies and foundations also had an extraordinary impact on the Society.

† denotes deceased donors

### \$100,000+

Anonymous (2)  
Bromley Charitable Trust  
Estate of Dr. Allen E. Everett†  
Estate of Dr. M. Priscilla Hele†  
Hope Goddard Iselin Foundation

### \$50,000 - \$99,999

Fidelity Charitable Gift Funds  
Litowitz Foundation, Inc.  
Amelia Peabody Charitable Fund  
Barbara and Edward Scolnick  
Jackie and Thomas E. Stone

Vanguard Charitable Gift Funds  
Martha Wallace and Ed Kane

### \$20,000 - \$49,999

Anonymous  
BNY Mellon Charitable Trust  
Institute of Museum and Library Services  
Michele H. Mittelman  
May H. Pierce  
Johanna Ross  
Sandplain Fund at Schwab Charitable  
U.S. Charitable Gift Trust

### \$10,000 - \$19,999

Anonymous (2)  
John C. Barber  
Lalor and Patricia N. Burdick  
Center for Plant Conservation  
Dana Foundation  
Marjorie D. and Nicholas P. Greville  
Johnson-Stillman Family Foundation  
Network for Good  
Jessie B. and Jon Panek  
Geri and Douglas D. Payne  
Dr. Alan E. Smith and Leigh A. Dunworth

### \$5,000 - \$9,999

Anonymous (2)  
Frances H. Clark and Bernard J. McHugh  
Abby and Peter B. Coffin  
Christopher R. and Carole M. Ely  
Christina T. Hobbs  
Massachusetts Cultural Council  
New Hampshire Charitable Foundation  
New Hampshire Charitable Trust  
Ruetggers Family Charitable Foundation  
J. F. Swope Fund  
Caroline Blanton Thayer 1990 Charitable Trust

### \$1,000 - \$4,999

1772 Foundation, Inc.  
Louise F. Ahearn  
Annemarie Altman and David Cook  
Anonymous (7)  
Beacon Hill Garden Club  
Molly and John E. Beard  
Michele L. and Alan Bembenek  
Nancy A. Benchoff  
Benevity  
Bose Corporation  
Ralph Brown and Sue Murray  
Kimberly and Dennis Burns  
Donna L. Burrell and Dr. Jane Eggerstedt



Lita Nelsen identifying native fungi and flora on a nature walk in New Hampshire last summer.



Dr. Rebecca Cannon and  
Dr. Scott Miller  
Susan B. and David D. Clark  
Charlton Clay  
Dr. Rebecca E. and  
Dr. David L. Conant  
William G. Constable  
Judith H. Cook  
Dr. William W. and  
Martha P. Cooper  
Stuart L. Cummings  
Martha R. Davis  
Ruah Donnelly and  
Steven E. Dinkelaker  
Pamela B. and  
David Durrant  
Ralph C. Eagle, Jr.  
Echo Charitable Foundation  
Debbi Edelstein  
Ann R. Elliman  
Ellis Charitable Foundation  
Elizabeth S. and  
Frederic A. Eustis  
Farnsworth Fund of the  
Essex County  
Community Foundation  
Lisa and George B. Foote  
Foundation for MetroWest  
Framingham Garden  
Club, Inc.  
Janet W. and  
John P. Ganson  
Betty D. Gardescu  
Sarah O. Garland-Hoch  
and Roland E. Hoch  
Goldman, Sachs & Co.  
Harold Grinspoon Charitable  
Foundation  
Mary Griffin and  
Andy O'Neill  
Jane C. Hallowell  
Susan S. and  
Douglas B. Harding



Christine Psathas and Robert Shabot  
savoring the plantings around the Lily  
Pond during our 2017 Intern Walk.



Susan Harding and Barbara Scolnick admiring colorful displays during our 2017 Art and Nature event in Connecticut.

Rebecca M. Harvey  
Timothy Helbig and  
Adam Beerman  
Thelma K. and  
John H. Hewitt  
Daniel Hildreth  
Timothy T. Hilton  
and Sara Miller  
John and Ingrid Hotchkiss  
Barbara Katzenberg and  
Peter Piela  
Dr. Barbara M. and  
Robert A. Keller  
Marilyn K. Kucharski  
Peggy Lahs  
Lucinda H. and  
David S. Lee  
David L. Lindsay  
Brian K. and  
Anne S. Mazar  
Stephen McCarthy  
Virginia McIntyre and  
John Stevens  
Deirdre Menoyo  
Thomas J. and  
Jo-Ann Michalak  
Wyatt J. and Gwyn A. Mills  
Anthony Mirenda and  
Tracey Cornogg



Ralph Brown, Jackie Stone, and Casey Sklar enjoying our 2017 Leadership Summit, preceding the American Public Gardens Association's "Partnerships for Protecting Plants and Habitats" symposium.

Dr. Sandra O. Moose  
and Eric Birch  
Elliott Morra and  
Kimberly E. Gurlitz  
John W. Murphy  
William L. Murphy and  
Claire M. Corcoran  
Lita and Donald Nelsen  
Ken Nimblett  
Geoffrey† and  
Clare H. Nunes  
Carolyn M. and  
Robert T. Osteen  
Overhills Foundation  
Robert Treat Paine  
Association  
Dr. Leroy M. and  
Dr. Winifred B. Parker  
Richard B. and  
Beverly S. Peiser  
Edward P. Petcavage  
Karen D. and  
Matthew V. Pierce  
Gloria J. and  
Roger P. Plourde  
Barbara F. and  
Frederick M. Pryor  
Katherine E. Putnam and  
Timothy G. Delaney



Barbara Keller making new friends with attendees of the American Public Gardens Association's Partnerships for "Protecting Plants and Habitats" symposium.



Rich Dube making selections at our 2017 Members' Plant Exchange.



SusanA Litowitz learning about Smith College students' hybridizing experiments as part of our 2017 Behind-the-Scenes Tour.

Elisabeth A. Raleigh  
 Bob and Amy Rands  
 Pamela P. and  
 Griffith L. Resor  
 Peter M. Richards  
 Estate of Sandra S. Rogers†  
 Sacajawea Charitable  
 Foundation  
 Johanna Schmitt and  
 James C. Dunn  
 Bruce M. and  
 Sarah T. Schwaegler  
 Kathleen E. and  
 Robert C. Shamberger  
 Wendy Shattuck and  
 Samuel Plimpton

Nicholas A. Skinner  
 Edwin E. and  
 Katharine T. Smith  
 Mark Smith and  
 John O'Keefe  
 Rachael Solem and  
 Barry Herring  
 Anita E. Springer and  
 James P. Lerner  
 John Springfield  
 Galen† and Anne Stone  
 Dr. Thomas S. and  
 Karen Thornhill  
 Upper Valley Native Plant  
 Conservation Fund  
 Emily Wade  
 Tony and Lorraine A. Wain  
 Carolyn and Sturtevant  
 Waterman  
 Hartley D. and  
 Benson Webster  
 Gray H. and  
 Paul M. Wexelblat  
 Jim and Betty Wickis  
 Robin E. Wilkerson  
 and Steve Atlas  
 Tracey Willmott  
 Richard S. Wood  
 Dr. Deborah Woodcock

Kathy H. Wrean and  
 Hugh W. Chandler, Jr.  
 Candace J. Young  
**\$500 - \$999**  
 Walter L. and  
 Beverlee A. Adamski  
 John A. Alic  
 William S. Andreas  
 Anonymous (5)  
 Lisa M. Bendixen  
 Janet S. and  
 Dr. Robert A. Bissell  
 Doris E. Bouwensch  
 David A. Bristol  
 Aviva and Douglas Brooks  
 Frederick and  
 Judy Buechner  
 Kim and Lawrence Buell  
 Ronald R. Campbell  
 Mary Ann Carey  
 Diana Chaplin  
 John A. Clark and  
 Elizabeth P. Barringer  
 Robert A. Clark  
 Community Foundation of  
 Western Massachusetts  
 Scott Cousland

Anne L. Cross  
 Grace M. Donnelly  
 Dr. Karen P. Doppke and  
 Dr. Philip Judy  
 Walter J. and Anne Gamble  
 Virginia Gauss  
 Joyce M. Greenleaf and  
 Mike Fallon  
 Beverly J. Greer  
 Dena and G. F. Hardymon  
 Lucile P. and  
 William C. Hicks  
 Richard K. Johnson  
 Dr. Kristina N. Jones and  
 Dr. Peter Hecht  
 K Foundation  
 Susan M. and  
 Christopher A. Klem  
 Deborah Krupenia  
 Marta Jo Lawrence  
 Emily L. and George Lewis  
 Faye H. and David P. Lieb  
 Deborah and Bob Lievens  
 Peter and Joy Madnick  
 Curtis W. Marble  
 Elizabeth A. and  
 Bernard Meyer  
 Enid R. Mingoelli  
 Martha S. and  
 Todd S. Moore  
 Karen Nathan  
 Deborah Nowers  
 Lise M. Olney and  
 Timothy Fulham  
 Elizabeth S. Paynter  
 Garry R. and  
 Virginia L. Plunkett  
 Bonnie B. Potter  
 George and Nancy Putnam  
 Richard and Carol Rader  
 Rare Plant Group, G.C.A.  
 Charles A. Rheault, Jr.



Carrie Waterman appreciating and photographing pollinators during our 2017 Intern Walk.



The Society's hard-working Sanctuary Committee and Stewards taking a well-deserved rest during the 2017 trail maintenance day at our Annie Sturgis Sanctuary in Maine.

Lucas Rogers and Mathieu Gagne  
 Wickie Rowland  
 Amy and John Saar  
 Ellen Schoenfeld-Beeks and David Schoenfeld  
 Russell P. Selvitella  
 Dr. Dick Snellgrove  
 Carolyn Summers and David Brittenham  
 Anne Symchych  
 Polly Townsend  
 Cornelia Trubey  
 Linda D. Walker  
 Wilma K. Wilensky  
 Elizabeth and Hugh M. Wilkinson III  
 Ellen S. Withrow and Robert Noah  
 Sara L. Wragge  
 Susan and Paul Young  
 Margaret W. and Charles A. Ziering

**\$250 - \$499**

Ellen Abdow  
 Michael Ahearn  
 Michael Alterman  
 Anonymous (3)  
 Rosemary Van Antwerp



Joseph Rothleutner and Jim Salyards at our 2017 Leadership Summit and American Public Gardens Association reception.

James R. Baker  
 Brad Barber  
 Ingrid J. Barrett  
 Dotty and Nicholas Beckwith  
 Rob and Katherine Beede  
 Reinier and Nancy Beeuwkes  
 Lisa A. Bielefeld  
 Dr. Sarah L. Booth and Dr. Edward Saltzman  
 Roland H. Boutwell III  
 Peter M. and Elaine Brem  
 Eleanor F. Briggs  
 Patricia A. Brooks  
 David† and Marti Budding

Diana P. and Stephen A. Cebra  
 Dr. Maureen H. Conte and Robert W. Busby  
 Peter T. and Leslie E. Cope  
 Todd N. Creamer  
 Edward N. and Arabella S. Dane  
 Barbara David  
 Elizabeth Davidson  
 Lucy W. and Neil J. Dean  
 James Doris and Lucille Cameron  
 Elaine Eadler and Daniel Robbins  
 Robin B. and Samuel Fan  
 Eileen R. Farrell

Charles and Carol Fayerweather  
 Louisa Ferree  
 Elaine W. Fiske and Philip L. Ladd  
 Patricia Freysinger  
 Garden Club of America  
 Garden Club of Amherst  
 Keith E. and Jennifer H. Garrant  
 Michele A. and Donald Girard  
 Jane C. and Bernard Gottschalk  
 Joan P. Gulovsen  
 Benjamin W. Guy III  
 Barbara F. Hall  
 Helen C. Hamman and Peter C. Isakson  
 Robert and Michele Hanss  
 Dr. Tammy C. Harris  
 Syed Hashmi and Asma Rashid  
 Deborah and Richard D. Hellmold  
 J. Duncan and Dorene J. Higgins  
 Patricia H. Highberg  
 Stanley Howe  
 Fern and David Jaffe



Murphy Westwood, Amy Highlands, and Anne Frances at our 2017 Leadership Summit and American Public Gardens Association reception.



Our Members' Open House at Nasami got last year's season off to a great start with Alexis Doshas, right, helping customers find the perfect native plants for their gardens.

Nancy E. Jaysane and James J. Darr

Diab Jerius and Sherry Winkelman

Dr. Alvin Kho and Myles Green

Warren King

Lynne Klemmer and Erik Husby

Ted Lapres and Connie Keeran

Anne and Robert Larner

Dr. Catherine C. Lastavica

Madeline Leone and John Mastrobattista

Leslie and Walter J. Leslie

Wanda and Richard N. MacNair

Lee Mason and Peter Hamlin

Judith P. and Michael H. McKay

Mary E. Memmott and George A. Burton

Donald B. Miller and Anne Gibbs

Gloria A. Mooney

Linea K. and Robert A. Murray

Cindy K. Neels and David Beck

Dr. Christopher Neill and Dr. Linda A. Deegan

Greta and Allen Newman

Noanett Garden Club

Peggy and Rick Novak

Melinda S. and Robert E. Oleksiak

C. W. Eliot and Linda Paine

Susan W. Peck

Sandra Peters and Alan L. Frohman

Robert A. and Veronica S. Petersen

Dennis Picker

Wallace Pinfold

Karl L. and Pamela W. Reichelt

Virginia Remeika and E. James Burke

Margaret E. Richardson

Jacqueline Rigolio

Catherine Ritch

Charles W. and Patricia K. Robertson

Susan Schadler

Loring L. and Andrew M. Schwarz

Martha W. and Peter V.D. Schroeder

Catherine and George G. Schwenk

Karen I. Sebastian

Jo Seibel and Stuart Levitz

Dr. Ellen Senghas and Dr. Mark Kassis

Susan and Adam Shipman

Thomas A. Smarr, Jr.

Frank W. Smith

Mundi and Syd Smithers

Nancy Sommers and Joshua Alper

David B. Soule and Patricia J. O'Reilly

Peggy Spaeth

Claire B. and Meir J. Stampfer

M. K. Swain

Jane M. and Hooker Talcott, Jr.

Heather and Jared F. Tausig

David V. N. Taylor

J. David Tholl and Carol Thomas

Charity and Thomas Tremblay

L. Jeanne VanPatten

Paul and Jennifer Walsh

Charles H. and Louise E. Weed

Catherine M. and Craig L. Weston

Mercy H. and Bancroft R. Wheeler

Valerie A. Wilcox

Deborah Wiley

Alan and Charlotte B. Wilson

Tobias Wolf and John Skurchak

#### LIFE MEMBERS

These dedicated individuals have chosen to play a long-term role in the preservation of our region's native flora by becoming life members.

Anonymous

Judy A. Artley and Charles T. Moses

Nancy H. August

John C. Barber

Julia A. Barber

Patricia Callan and Chuck Crafts

Martha F. and Robert W. Carlson

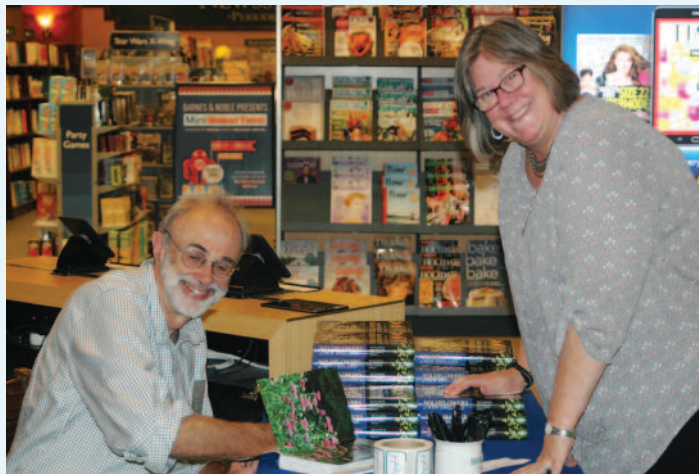
John S. and Jane Chatfield

Terry A. Chvisuk

Edward H. and Sandy Coburn  
 Frederick and Jeanine Coburn  
 Robert S. Coburn  
 Virginia and Jay Coburn  
 Judith H. Cook  
 David L. DeKing  
 Ann Dinsmore and Richard Nemrow  
 Elizabeth Dudley  
 Elizabeth S. and Frederic A. Eustis  
 Janet Fillion and Richard Laine  
 Mary F. and Joseph Fiore  
 Joanne C. and Lionel L. Fray  
 Anne and Walter J. Gamble  
 Nancy Goodman and Mike Kotarba  
 Christine M. Gradijan  
 Marjorie D. and Nicholas P. Greville  
 T. C. Haffenreffer  
 Jane C. Hallowell  
 Ervina Hamilton  
 Dena and G. F. Hardymon  
 Allyson Hayward  
 Thelma K. and John H. Hewitt  
 Robert C. Hooper  
 Dr. Kristina N. Jones and Dr. Peter Hecht  
 Larry L. Jones  
 Kathleen A. Klein  
 Catherine Z. Land  
 David R. Longland  
 Ellen West and George M. Lovejoy, Jr.  
 Jane Lyman  
 Eugene I. Majerowicz  
 Ellen B. and Duncan McFarland



The thrill of getting great new plants from fellow members is the highlight of our annual Plant Exchange.



Botanist and author Ted Elliman signing copies of *Wildflowers of New England* for Karen Pierce following his talk at our Trillium Society's 2017 special event.

Michele H. Mittelman  
 Monadnock Garden Club  
 Sally McGuire Muspratt  
 Beverly Myers  
 Bruce Patterson  
 May H. Pierce  
 Peggy and Hollis Plimpton  
 E. M. Poss  
 Patricia Pratt  
 Christine A. Psathas and Robert E. Shabot  
 Harriet D. Purcell  
 Dr. Paul John Rich  
 Chandler S. Robbins

Johanna Ross  
 Barbara V. and George R. Rowland  
 Maureen L. and Michael C. Ruettgers  
 David B. Rundle and Catherine M. Huntley  
 Aire-Maija Schwann  
 Catherine and George G. Schwenk  
 Robin R. Shield and John Tariot  
 William and Hatsy Shields  
 Mary M. Smithline  
 Peggy Spaeth  
 Gwen L. Stauffer

Galen† and Anne Stone  
 Edward S. Valentine  
 Emily Wade  
 Nancy L. Weiss  
 Louise Westcott  
 Weston Garden Club  
 Cheryl K. Wilfong  
 Robin E. Wilkerson and Steve Atlas  
 Patty Wylde  
 Margaret F. and T. C. Price Zimmermann

**TRILLIUM SOCIETY**

The following generous friends have included the Society in their estate plans, to help ensure our future ability to conserve native plants and their habitats.

Elizabeth L. Aghajanian  
 Annemarie Altman and David Cook  
 Anonymous  
 Joyce H. Bisson  
 Lalor Burdick  
 Frances H. Clark  
 Stuart L. Cummings  
 Ruah Donnelly  
 Peter V. Doyle and Ellen Clancy  
 Christopher R. Ely  
 Nancy Goodman  
 George C. and Diantha C. Harrington  
 Patti Laier  
 Ann R. Lemmon  
 Deirdre Menoyo  
 Carole M. Merrifield  
 Bettina L. Messina  
 Carolyn M. Osteen  
 Jessie B. Panek



Nathan Evans and Toby Wolf at our 2017 Leadership Summit, preceding the American Public Gardens Association's "Partnerships for Protecting Plants and Habitats" symposium.



Students from Framingham State University getting hands-on experience last fall cleaning rare and endangered specimens for our seed bank.

Musician Ben Cosgrove entertaining the Society's members at our 2017 Night of Illumination event.



Sunshine and smiles...the late Elizabeth Farnsworth demonstrating her trademark humor with Mollie Babize at our opening of the 2017 season at Nasami Farm.

Dr. Barbara Keller  
Virginia McIntyre  
Dr. Richard Melchreit  
Mary H. Norton  
Mark Richardson  
Dr. Michael J. Robinson  
Kathleen Shamberger  
Carolyn Waterman  
Gray H. Wexelblat  
Christina D. Wood

Deborah L. Mister  
Caitlin O'Hara  
Daphne B. Prout  
Beverly H. Ryburn  
Anne T. Sears  
Douglas H. Sears  
Dorothy D. Thorndike

**GIFTS-IN-KIND**

Gifts-in-kind uniquely allowed us to expand our outreach in 2017 without impacting our outgoing expenses. It is our pleasure to thank the following gift-in-kind donors.

Bee Good Apiary  
Wildflower Meadow  
Pollinator Sanctuary  
Big Y Foods, Inc.  
Boston Gourmet Chefs  
Ruah Donnelly  
Janet Ganson  
Hannaford Brothers  
Company  
Insomnia Cookies  
Kathleen Rao  
Julie Richburg  
Roche Brothers  
Supermarkets

Geri and Douglas D. Payne  
Karen D. and  
Matthew V. Pierce  
Barbara F. Pryor  
Dori Smith  
Anita E. Springer  
Natalie C. Starr  
Jackie and  
Thomas E. Stone  
Mary Ann Streeter  
Leslie Turek  
Dr. Edward S. Valentine  
Martha Wallace  
Cheryl K. Wilfong  
Elizabeth H. Wright  
Patty Wylde

**TRIBUTES**

In 2017 we received hono-  
raria or memorial dona-  
tions in tribute to the  
following friends, col-  
leagues, mentors, and  
loved ones.

**IN HONOR OF**

Dorothy C. Ahearn  
Janet Bissell  
Deborah Conant  
Arabella Dane  
Rosetta Dymond  
Liza Green  
Marjorie D. Greville  
Logan Hughes  
Dan Jaffe

**IN MEMORY OF**

Bob August  
Walter Berezanksy  
Leah Blumenfeld  
Catherine A. Cannon  
Dr. Shirley Cross  
Carolyn Drury  
Col. Leonard Edelstein  
Robert Evans  
Dr. Elizabeth Farnsworth  
Paul G. Gardescu  
Bertha K. Kelner  
Ellen Leszczak  
Glen T. Macon  
Phoebe D. A. McCarthy  
Susan Mehigan

Dr. Alan E. Smith  
Stop & Shop  
Trader Joe's  
Turkey Hill Dairy  
Elizabeth Haight  
Carolyn Waterman  
Wegmans Food  
Markets, Inc.  
Robin Wilkerson  
Whole Foods Market, Inc.  
Tobias Wolf

**MATCHING GIFT COMPANIES**  
We extend special thanks to the following businesses for their generous support in 2017.

Aetna Foundation, Inc.  
Apple Inc. Matching Gifts Program  
Autodesk Foundation  
Eaton Vance Management  
FM Global Foundation

GE Foundation  
IBM Corporation Matching Gifts Program  
Intel Corporation Matching Gifts Program  
Liberty Mutual  
Mass Mutual  
Medtronic Foundation

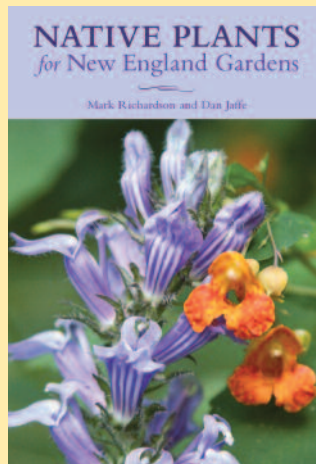


Barbara Weinstein eagerly awaiting her next plant selection at our 2017 Members' Plant Exchange.

## 2018 Book Launch *Native Plants for New England Gardens*



Dan Jaffe and Mark Richardson



Ron and Karen Riggert



Deirdre Menoyo



William Gil, Lucy and Neil Dean, and Sid Koul



Kathy and Robert Shamberger with Noni Macon (center)



# OAK SPRING GARDEN FOUNDATION CREATES NEW FELLOWSHIP

By Tracey Wilmott, Director of Philanthropy




SIR PETER CRANE

**We are pleased to announce that the Oak Spring Garden Foundation (OSGF) has chosen New England Wild Flower Society as one of the first partners in a new fellowship program for early career professionals.**

The year-long Native Plant Fellowship extends the recently established foundation's mission to support and inspire scholarship, public dialogue, and bold action on the history and future of plants, including the art and culture of plants, gardens, and landscapes, and the importance of plants for human well-being. In announcing the fellowship, OSGF President Sir Peter Crane, who previously headed the Field Museum in Chicago; Royal Botanic Gardens, Kew; and Yale School of Forestry & Environmental Studies, said: "We are excited about this new opportunity to collaborate with the Society. Its professional training program is much admired and has a long and successful history."

The OSGF fellow will train with the Society's staff in New England and at the Foundation's

700-acre property in Virginia, which is part of the estate of the late Rachel (Bunny) Lambert Mellon. The fellow will conduct botanical research and integrate his or her studies with practical native plant conservation, restoration, and horticultural strategies. Work with Society staff at Garden in the Woods, Nasami Farm, and in the field will complement ecological management projects at the Oak Spring estate, which contains historic gardens, former pastures, and woodlands. The fellow's training and projects may encompass seed collection and propagation of native species from wild-collected sources, rare plant monitoring, floristic survey work, invasive species management, garden inventory and curatorial work, and native plant display horticulture. "This new fellowship will help create strong leaders in plant conservation and native plant horticulture," said Debbi Edelstein, the Society's executive director. "We are honored to be partnering with the Oak Spring Garden Foundation and its distinguished leadership." 



**CUSTOM HORTICULTURE SERVICES**

The following organizations either contracted with us for custom growing or purchased quantities of plugs for their projects, or engaged us for design services.

\* indicates a partner nursery

**Contract Grow Customers and Partners**

- Allandale Farm (MA)
- Russell Cohen (MA)
- William Danforth (VT)
- Greenfield Community College (MA)
- J. Patrick McIntyre (CT)
- New England Wild Flower Society, Garden in the Woods (MA)
- Summer Hill Nursery (CT)\*
- Sustainable Wellesley (MA)
- Van Berkum Nursery (NH)\*
- Lisa C. Van Dusen (MA)

**Additional Plug Customers**

- Kate Brittenham (NY)
- Broadfork Permaculture (MA)
- Ruah Donnelly (MA)
- Elizabeth Dowey (MA)
- David Falk Gardening/Wild City Gardens (MA)
- Friends of Mashpee National Wildlife Refuge, Inc. (MA)
- Manitoga, Inc. (NY)
- Montshire Museum of Science (VT)
- Moosewood Ecological Services (NH)
- Muddy River Herbals (MA)
- State of New Hampshire (NH)
- Bruce Patterson (MA)
- Rhode Island Wild Plant Society (RI)
- RSE Landscape (MA)
- Ruth Shelley (MA)

- Smithfield Conservation Commission (RI)
- Speaking of Landscapes, LLC (CT)
- Carolyn Summers (NY)
- The Trustees of Reservations (MA)

**Design Services**

- Michael Kerstein

**CONSERVATION SERVICES**

In 2017, the following organizations contracted for our services or utilized our expertise in rare plant surveys, seed collection, invasive species management, botanical inventories, and restoration.

**National Park Service**

- Acadia National Park (ME)
- Boston Harbor Islands National Recreation Area (MA)

**U.S. Army Corps of Engineers**

**U.S. Department of Agriculture - Natural Resources Conservation Service**

- Cape May Plant Materials Center (NJ)
- Agricultural Research Service (WA)
- National Plant Germplasm System - Western Regional Plant Introduction Station (WA)

**U.S. Department of the Interior – Bureau of Land Management**

- Seeds of Success (East) with partners:
- New York City Department of Parks and Recreation – Mid-Atlantic Regional Seed Bank
- North Carolina Botanic Garden
- Chicago Botanic Garden

**U.S. Fish and Wildlife Service**

- Petit Manan National Wildlife Refuge (ME)
- Rhode Island NWR Complex (RI)
- Hyde Pond, Mystic River (CT)
- Great Bay NWR (NH)
- Parker River NWR (MA)
- Rachel Carson NWR (ME)

**U.S. Forest Service**

- Northern Research Station (NH)
- White Mountain National Forest (NH)
- Green Mountain & Finger Lakes National Forests (VT)

**Center for Plant Conservation**

**North American Orchid Conservation Center (Smithsonian Experimental Research Center)**

**State Natural Heritage Programs (or their equivalent)**

- CT Natural Diversity Data Base
- MA Natural Heritage and Endangered Species Program
- ME Natural Areas Program
- NH Natural Heritage Bureau
- RI Natural History Survey
- VT Natural Heritage Inventory

**State Offices**

- CT Department of Energy and Environmental Protection – Bluff Point Coastal Reserve
- CT Department of Energy and Environmental Protection – Nathan Hale State Forest
- CT Department of Energy and Environmental Protection - Wildlife Division
- CT Department of Environmental Protection – Gillette Castle State Park
- CT Department of Environmental Protection – Osbornedale State Park

- CT Department of Environmental Protection – Wildlife Division
- Connecticut Department of Transportation
- MA Department of Conservation & Recreation – Division of Reservations & Historic Sites
- MA Department of Conservation & Recreation – Harold Parker State Forest
- MA Department of Conservation & Recreation – Kingston State Forest
- MA Department of Conservation & Recreation – Mt. Greylock State Reservation
- MA Department of Conservation & Recreation – Mt. Tom State Reservation
- MA Department of Conservation & Recreation – Myles Standish State Forest
- MA Department of Conservation & Recreation – Savoy Mountain State Forest
- MA Division of Fisheries & Wildlife
- MA Department of Ecological Restoration
- Maine Department of Inland Fisheries & Wildlife
- Maine Department of Inland Fisheries & Wildlife – ME Dept. of Marine Resources
- NH Department of Environmental Services
- NH Division of Parks & Recreation – Crawford Notch State Park, White Mountains Region
- NH Division of Parks & Recreation – Franconia Notch State Park
- NH Fish & Game Department
- RI Coastal Resources Management Council
- RI Department of Environmental Management – Department of Fish and Wildlife

RI Department of Environmental Management  
– Division of Fish and Wildlife

RI Department of Environmental Management  
– Water Resources Board

Rockingham County Conservation District (NH)

Vermont Department of Forests, Parks and Recreation

Vermont Department of Forests, Parks and Recreation – Niquette Bay State Park

### OTHER PARTNERS

Includes towns, land trusts, utility companies, and other private and public landowners who allowed staff and volunteers access to their properties for conservation of our native flora. The names of individual landowners granting access are not included.

A. D. Makepeace Company (MA)

Amherst Country Club (NH)

Androscoggin Land Trust (ME)

Aquarion Water Company (CT)

Aquidneck Land Trust (RI)

Audubon Society of MA

Audubon Society of RI

Avalonia Land Conservancy Inc. (CT)

Bear Hill Conservancy Trust (NH)

Benedictine Monastery of the Immaculate Heart of Mary (VT)

Berkshire Natural Resource Council (MA)

Book Brothers Incorporated (VT)

Botanical Club of Cape Cod and the Islands (MA)

Brown Ledge Foundation Inc. (VT)

Cambridge Plant and Garden Club (MA)

Camp Isabella Freedman (CT)

Central Maine Power Company (ME)

Champlain Valley Exposition (VT)

Charles River Conservancy (MA)

Chatham Conservation Foundation, Inc. (MA)

City of Burlington (VT)

City of Gloucester (MA)

City of Holyoke (MA)

City of Lebanon (NH)

City of Lynn (MA)

City of Meriden Parks and Recreation Department (CT)

City of Newport (RI)

City of Salem (MA)

Concord Land Conservation Trust (MA)

Connecticut Forest and Park Association

Cumberland Land Trust (RI)

Episcopal Diocese of Vermont

Eversource – NU Corporate Land Management (CT)

Franklin Land Trust (MA)

Green Mountain Power (VT)

Groton Utilities (CT)

Hanover Conservancy (NH)

Hooksett Sewer Commission (NH)

Horatio Colony Nature Preserve (NH)

Lake Champlain Land Trust (VT)

Land Stewardship, Inc.

LVRT – Lamoille Valley Rail Trail (VT)

Mahoosuc Land Trust (ME)

Massachusetts Audubon Society – Allens Pond Wildlife Sanctuary

Massachusetts Audubon Society – Berkshires Office

Massachusetts Audubon Society – Pleasant Valley Wildlife Sanctuary

Merrimack Valley Planning Commission (MA)

Middlebury Area Land Trust (VT)

Mount Hope Cemetery Association (ME)

Mystic Aquarium (CT)

Narrow River Land Trust (RI)

National Audubon Society – Bent of the River Sanctuary (CT)

Northfield Mt. Hermon School (MA)

Opacum Land Trust (MA)

Polatin Ecological Services, LLC

Providence Water (RI)

Rock Cobble Farms LLC (CT)

Save the Bay (RI)

Save the Sound (CT)

Shultz Family Farm Trust (CA)

Society for the Protection of New Hampshire Forests (NH)

Somerset Woods Trustees (ME)

South Central CT Regional Water Authority (CT)

South East Land Trust (NH)

South Kingstown Land Trust (RI)

Southbury Land Trust (CT)

Sudbury Valley Trustees (MA)

Tiverton Land Trust (RI)

The Nature Conservancy – Connecticut State Chapter (CT)

The Nature Conservancy – Hawley Bog (MA)

The Nature Conservancy – Massachusetts Chapter (MA)

The Nature Conservancy – Maine State Chapter (ME)

The Nature Conservancy – New Hampshire State Chapter Main Office (NH)

The Nature Conservancy – Rhode Island State Chapter (RI)

The Nature Conservancy – Vermont State Chapter (VT)

The Trustees of Reservations (MA)

Town of Berlin (CT)

Town of Chatham (MA)

Town of Concord (MA)

Town of Cumberland (RI)

Town of Dartmouth (MA)

Town of Duxbury (MA)

Town of Durham (NH)

Town of Enfield (NH)

Town of Exeter (NH)

Town of Groton (MA)

Town of Hampton (NH)

Town of Jamestown (RI)

Town of Lyme (CT)

Town of Lynnfield (MA)

Town of Marshfield (MA)

Town of Moultonborough (NH)

Town of Northfield (VT)

Town of Yarmouth (MA)

Town of Pelham (NH)

Town of Redding (CT)

Town of Rye (NH)

Town of Salisbury (CT)

Town of Sandwich (MA)

Town of Skowhegan (ME)

Town of South Hadley (MA)

Town of Stratford (CT)

Town of Vernon (VT)

Town of Wallingford (CT)

Town of West Warwick (RI)

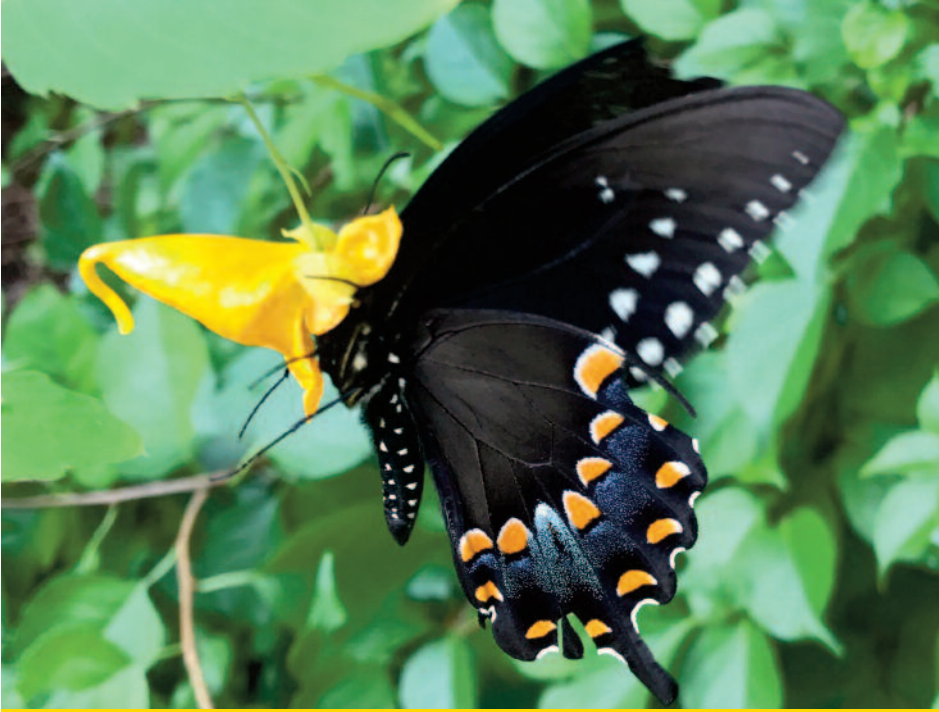
University of Vermont

Weantinog Heritage Land Trust (CT)

Westerly Land Trust (RI)

Wildlands Trust of Southeastern Massachusetts (MA)

Woods Hole Oceanographic Institute (MA)



# POLLINATE NEW ENGLAND

*This Summer, Head to a  
Free Pollinator Garden  
Workshop Near You!*

We have all the resources you need to create beautiful gardens that feed and shelter New England's native pollinators—garden kits from our nursery, an online course, a plant database, and a series of educational programs. Visit [newenglandwild.org](http://newenglandwild.org) for the latest information and to register for a hands-on workshop or an evening lecture (both at no charge) at the locations below.

Can't make a workshop? Take our new online course, "Gardening with Pollinators," and visit our new native plant database to help choose plants for your garden. Find both at [www.newenglandwild.org](http://www.newenglandwild.org).

*Pollinate New England is funded by a matching grant from the Institute of Museum and Library Services. To donate matching funds, please contact our Philanthropy Department: 508-877-7630 x3802; [gifts@newenglandwild.org](mailto:gifts@newenglandwild.org).*



## CONNECTICUT

East Haddam Land Trust,  
East Haddam - **Wednesday, July 25**

The Friends of Goodwin Forest,  
Hampton - **Tuesday, July 31**

## MAINE

Wells Reserve at Laudholm,  
Wells - **Wednesday, June 27**

## MASSACHUSETTS

Springfield Triangle Park,  
Springfield - **Tuesday, July 24**

SSYMCA/South Shore Natural  
Science Center,  
Norwell - **Wednesday, July 11**

Wellesley Natural Resources  
Commission, Wellesley Police  
Station - **Tuesday, June 26**

## NEW HAMPSHIRE

Keene State College,  
Keene - **Saturday, September 8**

Portsmouth Public Library,  
Portsmouth - **Monday, July 9**

## RHODE ISLAND

Wilcox Park, Westerly -  
**Tuesday, July 17**

Roger Williams Park Zoo,  
Providence - **Thursday, September 6**

## VERMONT

North Branch Nature Center,  
Montpelier - **Saturday, June 30**

Jericho Center Green,  
Jericho - **Thursday, August 2**



Smaller capitula (flower heads) and less hairy stems distinguish a globally rare variety, Provancher's Philadelphia fleabane (left in each photo pair), from the common Philadelphia fleabane.

## RARE PLANT SPOTLIGHT



The rare *Erigeron philadelphicus* var. *provancheri*

# Provancher's Philadelphia fleabane (*Erigeron philadelphicus* var. *provancheri*)

Philadelphia fleabane (*Erigeron philadelphicus*) is a relatively common, native member of the aster family that grows primarily in open areas, such as fields, clearings, shorelines, and human-disturbed sites. Flowering chiefly in June and July, this plant has flower heads composed of a yellow disk ringed by narrow, white to pink rays (florets) that resemble single petals. Its clasping leaves and hairy stems further characterize this species.

So why feature this common species in a column about rare species? Because though the species may be common, two varieties of Philadelphia fleabane occur in New England, one of which is globally rare and a conservation priority in our region: Variety *provancheri*, or Provancher's Philadelphia fleabane, grows on calcium-rich outcrops on river shorelines and has been documented in only three New England sites, two in Vermont and a third in Connecticut. This specialized habitat is itself rare in this region, except in western and northern New England.

Provancher's Philadelphia fleabane looks much like the more widespread form, variety *philadelphicus*, except that it is smaller overall, with less hair on the stems, smaller flower

heads, and basal leaves that persist during flowering. Such subtle differentiators between varieties often escape the notice of plant enthusiasts focused on higher taxonomic ranks, such as family, genus, and species. Provancher's Philadelphia fleabane is an example of a classification only one rank below species, where subdivisions are subtler to differentiate. The genetic and physically observable differences are not considered sufficient to treat the plant as a separate species, yet the variety that escapes notice is so rare that it merits conservation efforts.

Fortunately, the *Flora Novae Angliae* manual includes this distinction between varieties, as does the Society's Go Botany website. This documentation will bring some awareness to this rare element of our flora, hopefully resulting in the discovery of more populations. 🍀

—Arthur Haines, Research Botanist, Author, *Flora Novae Angliae*

Read more about the distinctions between rare and common varieties of Philadelphia fleabane on [www.newenglandwild.org](http://www.newenglandwild.org).

*We rely on your generous support for ongoing botanical research.*