

A Guide to Planning Successful Invasive Plant Management Projects



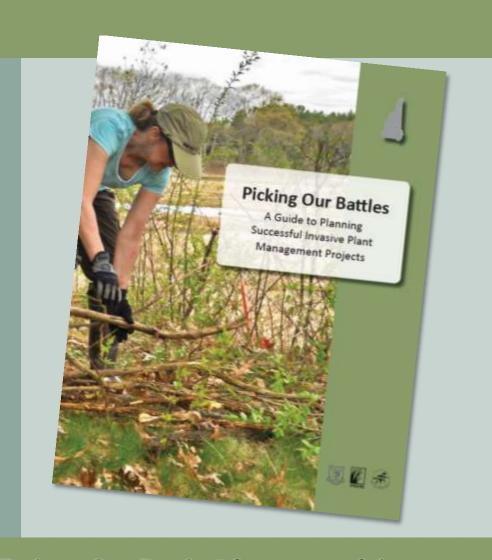




Picking Our Battles

WHAT IT IS HOW TO USE IT

SMART STRATEGIES HERE TO HELP



Here's what this presentation about "Picking Our Battles" for successful invasive plant projects will cover.

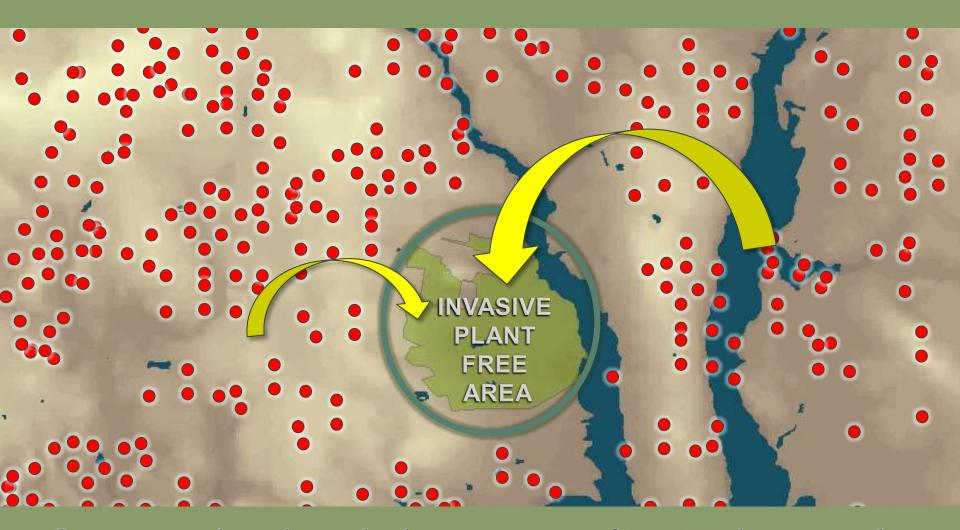
Picking Our Battles





First we describe why "Picking Our Battles" was developed and overview what it is.

Invasive Plants Know No Boundaries



Once present throughout a landscape, a species of invasive plant can easily return to an area you have successfully made invasive free unless a large-scale strategic approach is taken to prioritizing invasive plant management projects.

Pulling Together

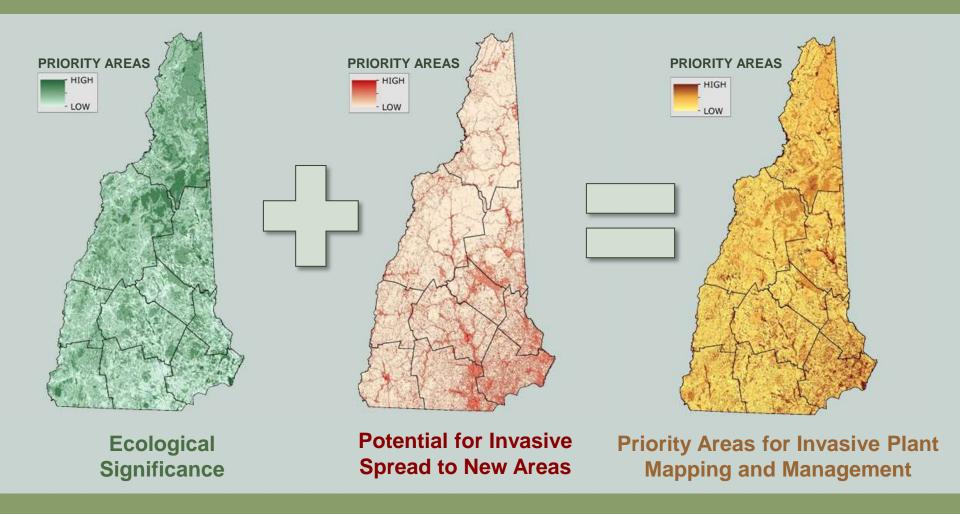
Antioch University of New England Audubon Society of NH Great Bay National Estuarine Research Reserve Natural Resources Conservation Service NH Aquatic Resources Mitigation Fund Program NH Botany Club NH Coastal Watershed Invasive Plant Partnership NH Department of Agriculture NH Department of Transportation NH Fish and Game Department, NH Natural Heritage NH Office of Information and Technology NH State Invasive Species Committee The Nature Conservancy New England Wildflower Society Piscataqua Regional Estuaries Partnership Society Protection of NH Forests University of NH Cooperative Extension University of New Hampshire Department of Natural Resources and the Environment US Forest Service US Fish and Wildlife Service





For this reason, the NH Fish and Game Department, NH Natural Heritage Bureau, and Great Bay National Estuarine Research Reserve teamed up with over 120 community members, natural resource managers, and academics...

"Hot Spots" for Invasive Plant Management



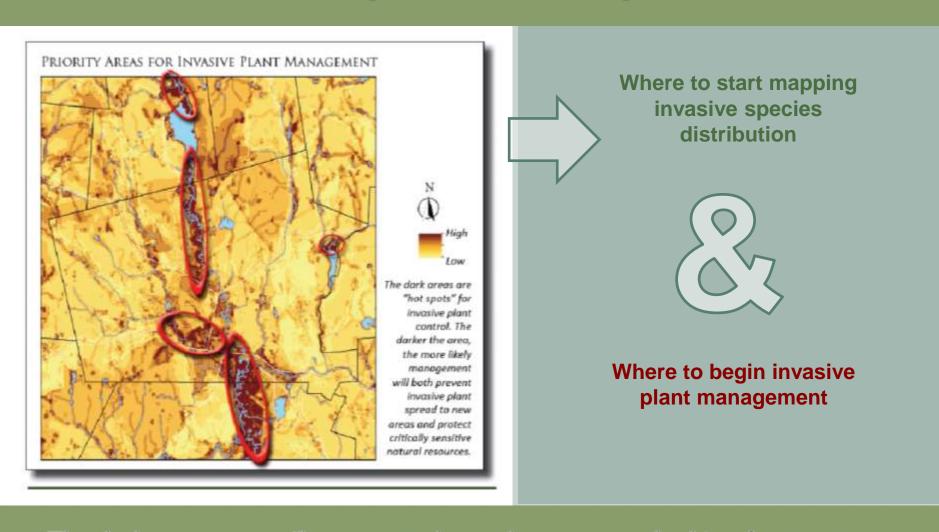
...to develop a statewide prioritization plan for management of upland, wetland, and intertidal invasive plant species.

Invasive Plant Priority Area Maps



The darker an area, the more likely management will BOTH prevent the spread of invasive plants to new areas AND protect sensitive ecological resources.

Prioritize "Hot Spots" on Maps



The darkest areas, or "hot spots", show where to start looking for invasive plants <u>and</u> where to start management once you have an idea of the types of species and distribution of invasive plants present.

Available for Download





wildnh.com/invasives

In This Section Customized Town Strategies Maps in Action Plan Your Project Success

Resources

Picking Our Battles

Planning Successful Invasive Plant Management Projects

Invasive plants can cause significant ecological and economic harm and are changing the face of America. They may impact wildlife by choking out natural habitats such as freshwater wetlands, causing loss of available food, or by altering habitat structure or function.

The importance of minimizing the spread of invasive plants across the landscape means they are a common focus of restoration projects. However, invasive plants know no boundaries and can easily reestablish from surrounding areas unless a landscape-scale



Download the
"Picking Our Battles"
Handbook

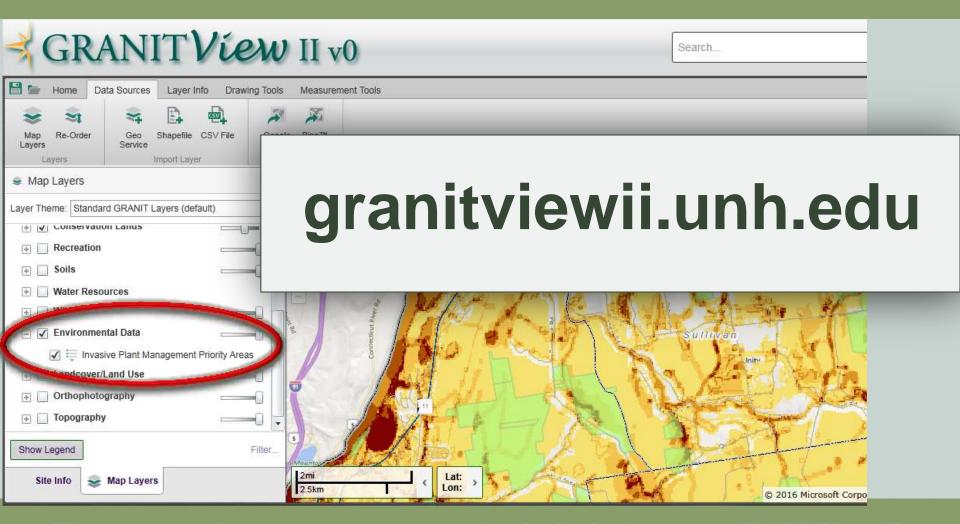
Invasive plant priority maps can be downloaded at wildnh.com/invasives...

Customized for YOUR Community



...on this website a customized map is available for each community in New Hampshire along with a list of "early detection" species that are just coming into that location.

Online Interactive Viewer



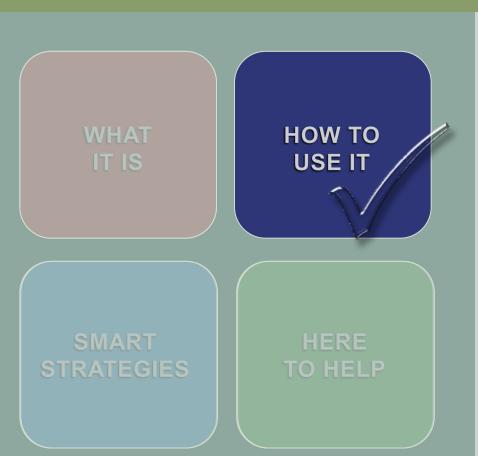
The invasive plant priority maps can also be looked at using GRANITView II. Click on the "Environmental Data" tab and then the "Invasive Plant Management Priority Areas" sub menu to zoom into wherever is of interest to you.

Geographic Information System



If you are a GIS user, files can be downloaded from NH GRANIT. An easy way to find them is to type the search term "invasive" in the Data Discovery Tool search engine.

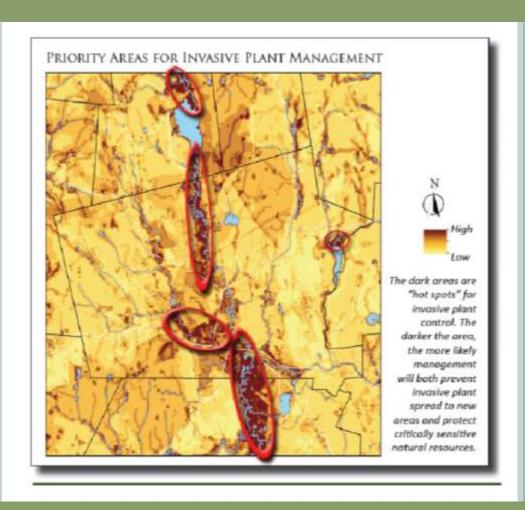
Picking Our Battles





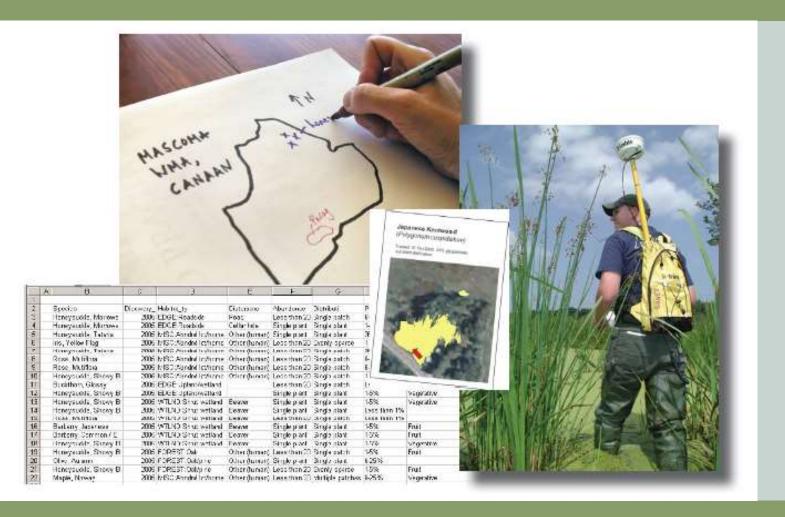
What is the best way to use "Picking Our Battles" to get successful invasive plant projects on the ground?

First, Choose Where to Begin Work



Hot spots for invasive plant control are a great place to start. Use the prioritization maps to identify one or more of these areas to begin working within.

Then Map Where Invasives Are



Next, map what types of invasive plants occur there. The mapping technique you use can be as simple or complex as you choose to make it.

Learn How to Identify Invasive Plants



Learn what to look for before you head out. A good guide, created especially for NH, can be downloaded at the state Department of Agriculture's website.

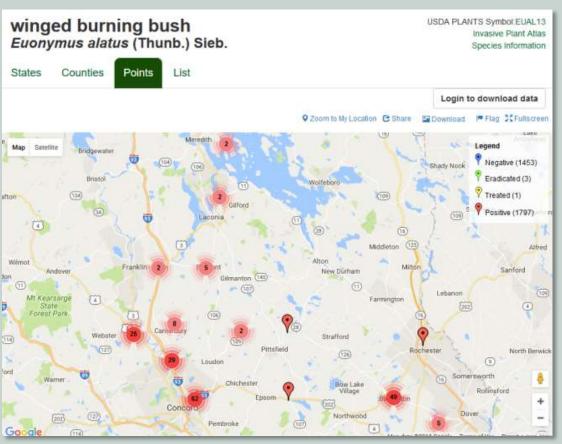
Best Management Techniques



As well as helping with identification of invasives, it points out similar looking native species and suggests most effective management techniques.

Shared Online Mapping Tool



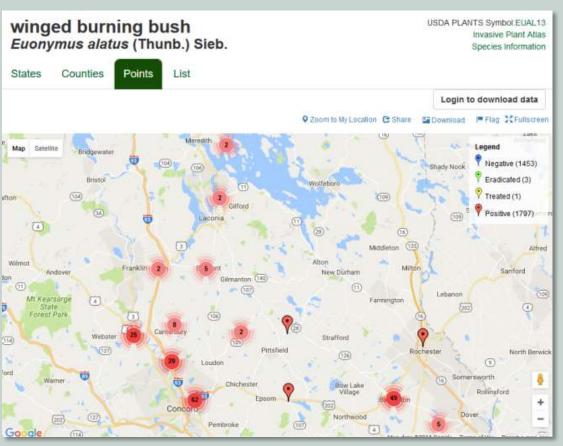


EDDMapS graphic

A great thing to do is to add the location of any new invasives you find to EDDMapS. This stands for "Early Detection and Distribution Mapping System". It is a free online tool that anyone in New Hampshire can contribute to.

Pooled Information





EDDMapS graphic

It is what the natural resource professionals that created "Picking Our Battles" decided to contribute their data to. The more comprehensively we understand invasive plant distribution, the better decisions we can make about how to manage them effectively.

Identify A Management Goal



Once you know what invasive plants are out there, identifying a management goal is the first priority.

Set an Attainable Goal



Your goal could be as general as "remove all invasive plants in the project area" or as specific as "manage knotweed along road edges". Making your goal attainable in the time period you have available is important.

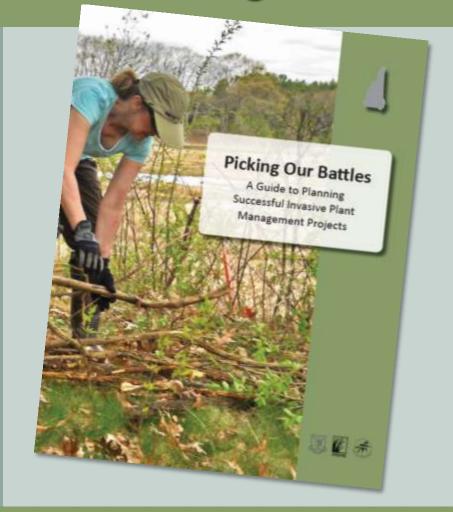
Achieve Success Before Moving On



Starting with a few projects, and maintaining their success before beginning a new project is key to making a difference.

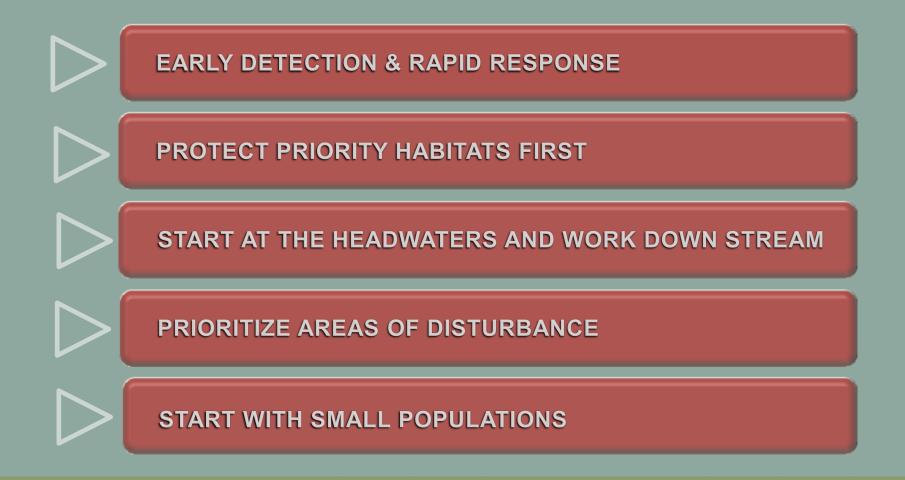
Picking Our Battles: Smart Strategies





What are some of the best ways to approach invasive plant projects that "Picking Our Battles" recommends?

Try to Use One, or More, Smart Strategy



There are several smart ways to plan an invasive species project. Using one, or a combination of, these strategies will make the most difference ecologically and will use your time and/or money resources most efficiently.

Early Detection and Rapid Response

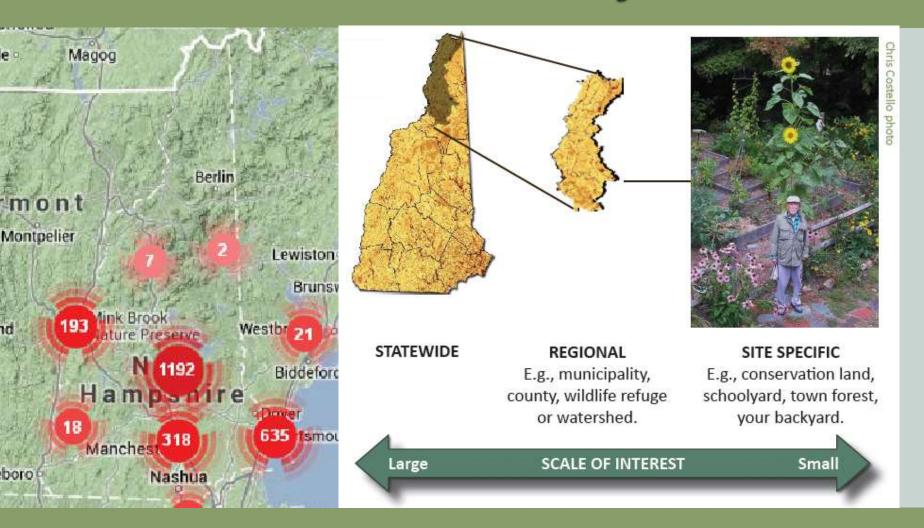




Meredith

Early detection and rapid response, that is, removing a species before it becomes well established within your project area is by far the most effective strategy. This well known approach is often abbreviated to "EDRR".

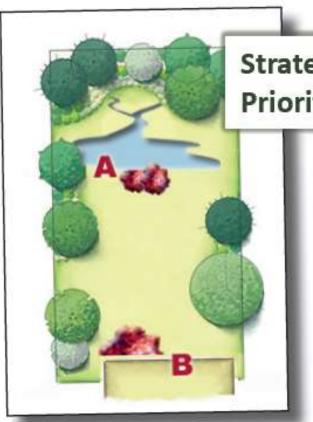
EDRR Can Take Place At Any Scale



Early detection can take place at any scale. Even if a plant is common in surrounding areas, but not present in your chosen project area, focus on preventing it from moving in. This is the most important battle to pick!

Protect Priority Habitats First





Strategy: Protect Priority Habitats First

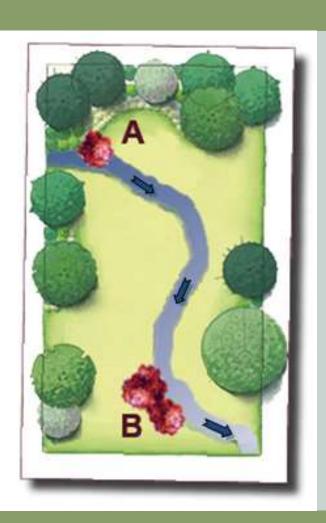
Selecting habitats that are a priority to you is a good place to start managing invasive plants. In this example, a homeowner decided to start with population "A" which is located next to a wetland and leave population "B", which is next to the house, until later.

Selecting habitats of priority within your project area is a good approach. It could be an uncommon habitat in NH, such as salt marsh, or an area you are just particularly fond of such as the wetlands or a meadow on your property.

Start At the Headwaters

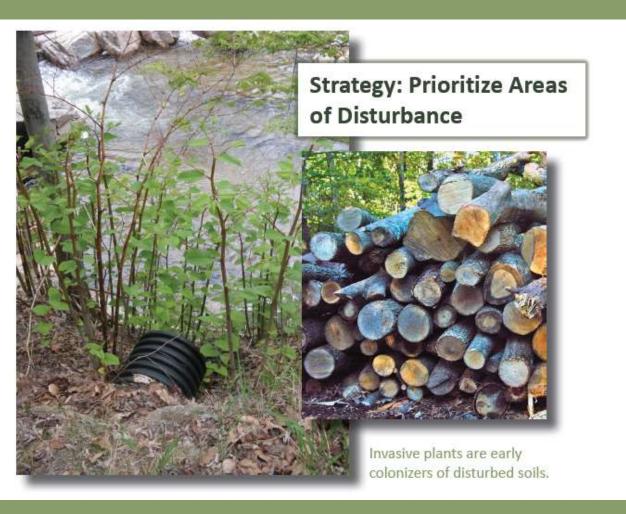
Strategy: Start at the Headwaters and Work Downstream

Starting invasive plant management with the upstream population "A" before "B" prevents reinfestation from upstream..



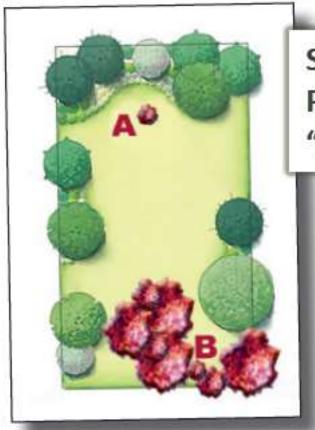
Starting at the headwaters prevents reinfestation from upstream populations. This is just as important a strategy for a major river such as the Saco or Merrimack as it is for a small order stream.

Prioritize Areas of Disturbance



Invasive plants are early colonizers of disturbed soils, so being proactive and trying to manage any invasives present before a timber harvest, construction project, or other disturbance takes place can be very effective.

Start With Small Populations



Strategy: Start with Small Populations, or Deal With "Spot Fires"

Starting with small populations is more likely to result in early success.

Starting with a small population is more likely to result in early success. Early removal also prevents its growth into a large population that is more challenging to remove.

A Network of Professionals

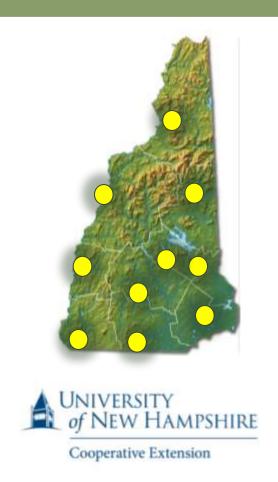


Who can help us get our invasive project done?

Working Together to Make a Difference



Putting an invasive plant project together can be rewarding and fun. There are a network of people out there to help.





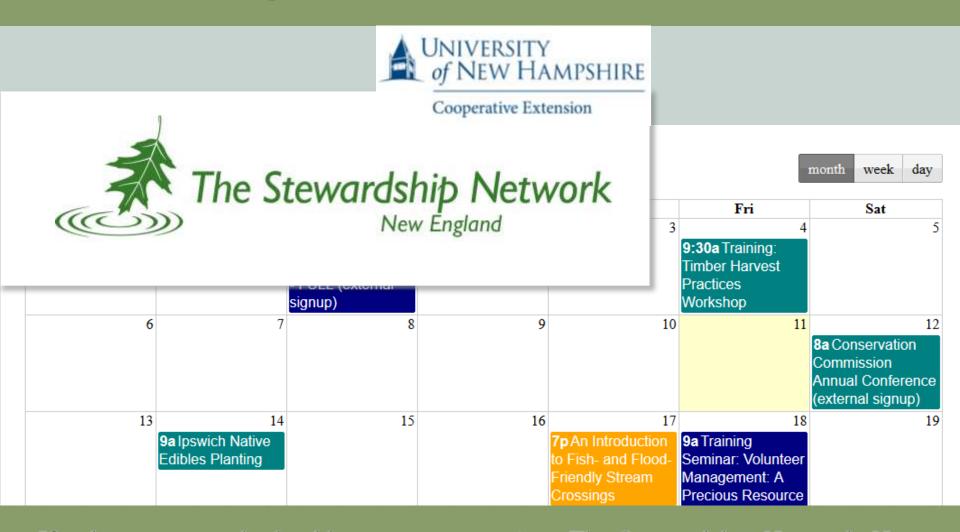
Cooperative Extension County Foresters have a fantastic wealth of knowledge and are experts in advising how to deal with invasive species.



The NH Department of Agriculture has an Invasive Species Coordinator who can share guidance on invasive plant identification and management options.



The Natural Resource Conservation Service and NH's County Conservation Districts are available to give technical advice and can sometimes provide partial funding.



If volunteers are the backbone to your project, The Stewardship Network: New England is available to help. You can post your event on their calendar, they provide training, and they can help recruit volunteers.

A Recipe for Success



Using each step of this "recipe for success" will mean your invasive plant project makes the most difference ecologically and will be done making most efficient use of resources needed to complete it.

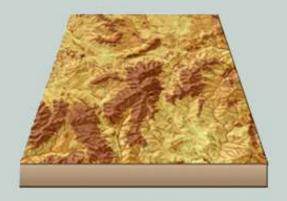
Together We Can Make a Difference!



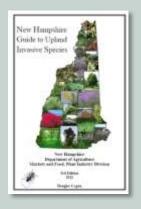
Working together on shared invasive plant goals we can make a difference and help maintain our native biodiversity for everyone to enjoy!

Questions?

About this "Picking Our Battles" for successful invasive plant projects



rachel.stevens @ wildlife.nh.gov About invasive plants and their management



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