

Finger Lakes - Partnership for Regional Invasive Species Management Working Group Purpose, Strategy, and Priority Invasive Species List*

I. Steering Committee (SC)

Purpose:

To guide the 5-yr strategic planning process, plan and set overall direction for priority areas and IS and ensure that major goals and timeline are achieved. Set annual work plan and monitor progress, which may include tracking timelines and evaluation procedures. Provide strategic direction and coordination for the four working groups and serve as a liaison for the NYS IS Council and IS TF

Structural Statement

The steering committee will be made up of representatives from the Finger Lakes PRISM with an interest in the mission of the FL-PRISM. The working groups represent the larger stakeholder group. The structure of the PRISM, the steering committee and working groups is designed to ensure equality in decision-making for the Finger Lakes region (see structure document).

Strategies to accomplish purpose:

- To develop bylaws
- Establish a good working relationship with partners and working groups.
- Work in partnership with the working groups to develop priorities such as key invasive species to monitor and control, and locations in the FL region.
- Adopt a monitoring strategy for IS in the FL-region based on the outcomes from the WGs
- Adopt an Early Detection Rapid Response (ED/RR) plan that will help communities detect and respond to IS coming into the region, based on outcomes from the WGs.
- Develop the annual and work plan that brings together various stakeholders to establish the synergy necessary to tackle IS within the community through clear and concise strategies for prevention, control and remediation
- Help communicate the priority list and methods of introduction, which will include information about vectors of transmission, information about where IS are coming from and where they will go to be disseminated via FL-PRISM website.
- Develop a marketing and communication strategy, including a robust and all-inclusive website, to enable the community to recognize and consider FL-PRISM as the entity for information, management ideas, ED/RR, and all things invasive in the region providing a key element for citizen science or community members to submit their questions or early detection organisms- Report invasive species sighting utilizing tools such as iMap, or reporting fields to identify IS



*Developed and approved by the FL-PRISM working groups and Steering Committee, fall 2014.



II. Agricultural Working Group (AgWG)

Purpose of Agriculture Working Group:

- To create agriculture- specific priorities for invasive species management and prevention, determine highly probable locations and conditions appropriate for invasion and develop agricultural invasive species management plan. This working group will develop an agriculture-focused work plan, support best management practices intended to reduce or control invasive species, and support the steering committee as needed.

Strategies to accomplish purpose:

- Establish good working relationships with partners such as farmers, Cornell, DEC, Ag and Markets, and others.
- Working in concert with the E&OWG and the SC, determine the target audience in order to provide an Ag IS-specific toolbox with items to effectively and efficiently educate people about the impact of Ag IS and how to detect, prevent, mitigate and report Ag IS.
- Develop or identify a monitoring strategy, including monitoring protocols, for Ag IS in the FL-region
- Create an ED/RR plan that will help communities detect and respond to Ag IS coming into the region.
- Develop or identify a mitigation strategy with best management practices to mitigate impacts and help farmers deal with impacts.
- Develop or identify a prevention, management and work plan that brings together various stakeholders to establish the synergy necessary to tackle Ag IS within the community through a clear and concise strategies for prevention, control and remediation
- Develop or identify a protocol for the FL-region to deal with Ag IS issues at locations such as hedgerows, fallow field, etc. to provide consistent and clear messaging.
- Develop or identify a priority list and methods of introduction, which will include information about vectors of transmission, information about where Ag IS are coming from and where they may go, and how to prevent them to be disseminated via FL-PRISM website.
- Synthesize and disseminate data to the public via the FL-PRISM website.
- Create material on priority Ag IS for the FL-region (fliers, handbooks, datasheets, etc.).
- Establish the FL-PRISM website as the premiere location for all information on invasive species.

Develop a matrix to use when determining priority organisms and locations for IS invasion and management.

Priority invasives of concern:

Plants

1. Autumn and Russian olive
2. Canada thistle
3. Field bindweed
4. Japanese knotweed
5. Johnson grass
6. Ragweed
7. Spotted knapweed
8. Swallow-wort
9. Velvet leaf
10. Wild parsnip

2. Grape crown gall, *Agrobacterium tumefaciens*
3. Late blight, *Phytophthora infestans*
4. Phytophthora blight, *Phytophthora capsici*
5. Plum pox virus, *Potyvirus*

Insects

1. BMSB (*Halyomorpha halys*)
2. Garlic bloat nematode (*Ditylenchus dipsaci*).
3. Golden nematode (*Globodera rostochiensis*) - not an insect
should be included
4. Spotted wing drosophila (*Drosophila suzukii*)
5. Swede Midge (*Contarinia nasturtii*)

Diseases

1. Basil downy mildew, *Peronospora belbahrii*

III. Aquatic Working Group (AWG)

Purpose of Aquatic Working Group:

- To develop aquatic- specific invasive species priorities, determine highly probable areas, create an aquatic invasive species management, and work plan.
- The AIS working group will help in the prevention of new invasive species into the region, focus on early detection/rapid response of AIS, and support the steering committee as needed.
- The AWG and FL-PRISM will serve as the direct point of reference for AIS and establish a simple and effective means for preventing, detecting, reporting, controlling, and managing priority AIS of concerns
- To develop a robust website that serves as a clearinghouse for AIS issues (prevention, detection, response, management, control) in the Finger Lakes region.
- A secondary focus of this working group will be on the containment and management of established invaders within the region and provide information about conferences, workshops, and literature to the E&O WG.

Strategies to accomplish purpose:

- Establish a good working relationships with partners such as NYS OPRHP, DEC, NYSFOLA, and others
- Develop protocols for lakes without stewards.
- Working in concert with the E&OWG and the SC, determine whom the FLPRISM target audience is and how to provide an AIS-specific toolbox to effectively and efficiently educate people about the impact of AIS and how to detect, prevent, mitigate and report AIS.
- Develop a monitoring strategy, including monitoring protocols, for AIS in the FL-region
- Create an ED/RR plan that will help communities detect and respond to AIS coming into the region.
- Develop a mitigation strategy with best management practices to mitigate impacts and help communities deal with impacts.
- Develop a prevention, management, and work plan that brings together various stakeholders to establish the synergy necessary to tackle AIS within the community through a clear and concise strategies for prevention, control, and remediation.
- Develop a protocol for the FL-region to deal with AIS issues at locations such as boat launches, marinas, etc. at all the waterbodies in the region to provide consistent and clear messaging (Lake Ontario, Sodus Bay, Finger Lakes, Oneida Lake, Erie Canal, small glacial lakes).
- Develop a priority list and methods of introduction, which will include information about vectors of transmission, information about where AIS are coming from and where they may go, and how to prevent them to be disseminated via FL-PRISM website.
- Synthesize and disseminate watercraft steward/boat steward data to the public via the FL-PRISM website.
 - Develop a consistent marketing strategy to convey the importance of watercraft stewards to the public (i.e., Clean, Drain, Dry!, Stop Aquatic Hitchhikers!)
- Create material on priority AIS for the FL-region (fliers, handbooks, datasheets, etc.).
- Establish the FL-PRISM website as the premiere location for all information on invasive species.
 - I.e., create a simple spreadsheet with highlighted AIS where the public can click and find a simple page with the biology and information regarding which waterbody has infestation. Public can determine the highly probable areas (HPAs) of the area, etc. This will help to clarify and provide information on experts, points of contact for species of concern, legislation enacted, etc.
- Develop a matrix to use when determining priority organisms and locations for AIS invasion and management.
 - Create information about regional AIS and then lake-specific AIS

Priority areas:

- Boat launches
- Primary inlets and tributaries
- Marinas and bait shops
- HPA

Priority invasives of concern:

1. Macrophytes
 - a. Hydrilla
 - b. Trapa natans (water chestnut)
2. Macroalgae
 - a. Nitellopsis obtuse (starry stonewort)
3. Invertebrates
 - a. Corbicula fluminea (Asian clam)
 - b. Hemimysis (bloody red shrimp)
4. Fish and Fish Diseases
 - a. Web to send list of fish diseases to group
 - b. Neogobius melanostomus(round goby)
5. HABs—is there a need to put this information on the website? Reach out to SUNY Buffalo to see about Asian clam connection HABs

IV. Education and Outreach Working Group (E&OWG)

Purpose of the Education and Outreach WG:

- To establish a strong connection between FL-PRISM and the general public, volunteers, institutions of higher education, NGOs, agencies and other stakeholders.
- To promote FL-PRISM in a way that fosters awareness of our mission; generates interest in being a partner; enhances visibility within agencies, and the Finger Lakes region to increase general knowledge (detection, prevention, control) of invasive species.
- The E&O WG will educate the Finger Lakes community on invasive species issues and provide the tools necessary to make sound management decisions.
- The E&O WG will determine appropriate means for education and outreach based on resources available.
- The E&O WG also seeks to demonstrate to the general public and others the mutual benefit of investing human and economic resources in the FL-PRISM.

Strategies to accomplish purpose:

- Generate and increase invasive species awareness and education within the FL-PRISM
- Create a network of information sharing for marketing collateral and resource sharing across the FL-PRISM
- Create a strong web-presence for the FL-PRISM E&O to include necessary resources for managers, general public, lake associations, etc. on dealing with invasive species- flow chart
- Create fact sheets and information for professionals and educators
- Develop a list of venues/events to offer opportunities to raise awareness about the FL-PRISM and invasive species
- Sponsor education and outreach conferences, symposiums and public forums to increase invasive species awareness across the region

- Offer technical training on IS identification and management options for professionals and educators in the region
- Create a list of experts in the field to draw upon for a speaker series- who is doing what (GAP analysis)
- Support the Agric, Aquat, and Terrest WGs to ensure that their priorities and products are delivered to the general public and the FL-PRISM
- Develop a process to ensure that FL-PRISM publications are consistent and appropriate for the region (vetted through Steering Committee)

V. Terrestrial Working Group (TWG)

Purpose of Terrestrial Working Group:

- To guide terrestrial- specific invasive species priorities, determine highly probable areas for invasion and engage in invasive species research
- The TWG will develop a terrestrial-focused work plan and invasive species management plan.
- The TWG will assist in the prevention of new invasive species into the region, focus on early detection/rapid response of invasive species and support the steering committee as needed.
- A secondary focus of this working group will be on the containment and management of established invaders within the region and provide information on terrestrial invasive species of concern, conferences, workshops, and literature to the E&O committee.
- Engaging in regional research on terrestrial invasive species (TIS)
- Promoting the FL-PRISM as a central clearinghouse for TIS

Strategies to accomplish purpose:

- Prevent new invasions through rapid detection and remediation of new invasions of plants
- Manage invaded areas
- Promote native planting (i.e., as landscaping) thereby decreasing potential for invasion
- Collaborate and network with regional invasive species educational institutions
- Inventory, survey and map populations of invasive plants
- Restore sites where weed management and control have occurred
- Monitor changes and evaluate management results

Priority areas:

- a. Areas where the infestation is low on the invasion curve and our effort can make a difference—i.e., Japanese knotweed in the Natl Forest is very low abundance
- b. Easily accessible areas for recreation where the plant can be spread—highly probable areas (HPAs) for invasion
- c. Edge of ecological important communities
- d. Transportation corridors/right ways

Priority invasives of concern:

1. EAB
2. Hogweed
3. HWA
4. Japanese knotweed
5. Oriental bittersweet
6. Swallow-wort (pale and black)
7. Wild parsnip