

Each SSEA Municipality was provided with an individual report. For the purposes of the SSEA website, the reports have been combined into one document.

Table of Contents

Township of Georgian Bay Report	2
Town of Midland Report	6
Township of Oro-Medonte	10
Town of Penetanguishene	14
Township of Severn	18
Township of Springwater	22
Township of Tay	26
Township of Tiny	30
SSEA Watershed Report	34

For more information contact: Patrick Jackson, Invasive Species Program Coordinator 705-534-7283 x.211 | invasivespecies@severnsound.ca

Severn Sound Environmental Association (SSEA) 489 Finlayson Street, P.O. Box 460 Port McNicoll, ON L0K 1R0 www.severnsound.ca



















Township of Georgian Bay



Lesser Periwinkle

Severn Sound watershed municipalities are leading the way on cross-municipal invasive species education and management. The Severn Sound Environmental Association (SSEA) works with the Township of Georgian Bay, seven other municipalities and local agencies to coordinate the monitoring and management of invasive species on a watershed scale. With support from the Township of Georgian Bay, monitoring of invasive species has been conducted on municipal properties by SSEA staff and supplemented by additional observations throughout the Township from community members.

In 2022, **31** invasive species of plants, fish, and invertebrates were identified within the Township of Georgian Bay with a total of **82** species to date. **7** species are further classified as priority invaders in **Table 1**. These species pose a threat to the ecosystems, economy and public health of community members and should be a focus for coordinated management activities and educational opportunities. Priority rankings can change as a result of invasiveness of non-native species, new species introductions, public interest and yearly invasive species monitoring results. A total of **119** invasive species have been documented in the watershed to date (**Table 2**).

82

Invasive species identified in Georgian Bay

7

Priority Invasive Species Detected Within the Township of Georgian Bay

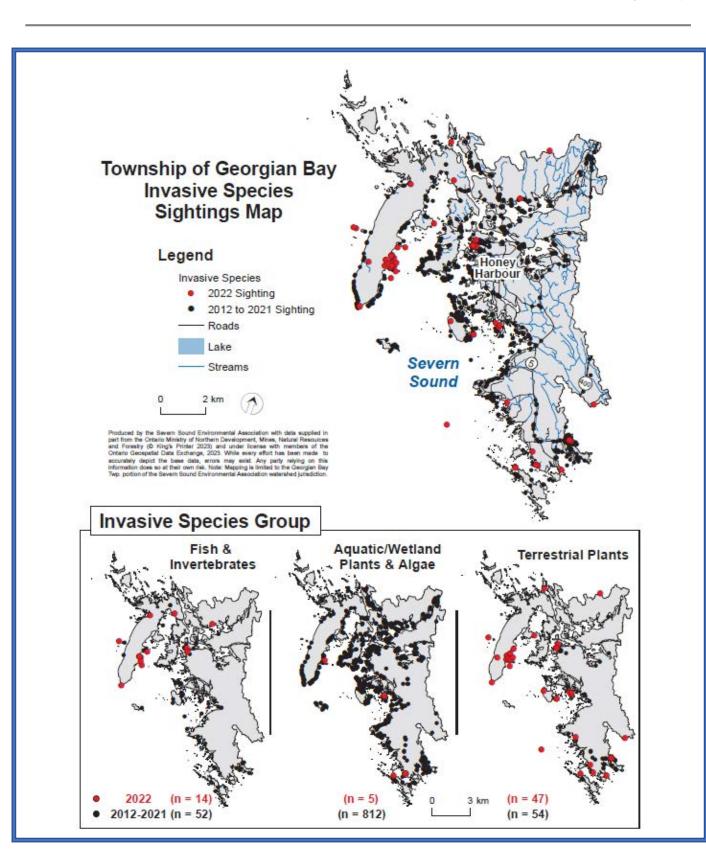


Species Group	Species Name
Aquatic Plants & Algae	Eurasian water-milfoil Starry stonewort
Terrestrial Plants	Glossy buckthorn Japanese knotweed
Wetland Plants	Phragmites
Invertebrates	Spongy moth (Ldd) Mystery Snails



Banded Mystery Snail found during SSEA aquatic invasive survey







Municipalities are vulnerable to the economic and social impacts of priority invasive species such as those listed in **Table 1**. For the Township of Georgian Bay, high traffic areas including public boat launches, public parks and trail systems are examples of places that are at risk for invasive species introduction and establishment.

Three areas were surveyed by SSEA for invasive species in 2022 including Honey Harbour Landing, Paragon Marina, and Port Severn Park. These locations are susceptible to the introduction and movement of both aquatic and terrestrial invasive species.

In fall of 2022, SSEA surveyed selected forested locations across the Severn Sound area for the invasive forest pest, spongy moth. The surveys help to forecast potential defoliation for the upcoming season (2023). In areas surveyed, numbers of spongy moth egg masses were low, resulting in a nil to light potential defoliation forecast.







Japanese Knotweed

Invasive Honeysuckle

Black Locust

Recommendations

The SSEA proposes to lead the following priority actions with the Township of Georgian Bay in 2023, with accommodations for COVID-19 restrictions as necessary:

- Continue to monitor the spongy moth across the Severn Sound watershed and use data to help with future defoliation forecasting
- Support and coordinate community invasive species management events
- Continue monitoring for aquatic invasive plants and macroalgae such as starry stonewort along the Severn Sound portion of the Georgian Bay coastline
- Assist with communication about invasive species (e.g., giant hogweed, Japanese knotweed)
- Support partner organizations and groups in their work to manage invasive species, by providing technical expertise and assistance when possible, and collaborating to expand invasive species knowledge and management efforts across the watershed
- Promote engagement in Citizen Science initiatives to residents to increase invasive species awareness and reporting
- Provide invasive species workshops/educational opportunities for Township of Georgian Bay staff and residents







Town of Midland



Lily of the Valley, Little Lake Park

Severn Sound watershed municipalities are leading the way on cross-municipal invasive species education and management. The Severn Sound Environmental Association (SSEA) works with the Town of Midland, seven other municipalities and local agencies to coordinate the monitoring and management of invasive species on a watershed scale. With support from the Town of Midland, monitoring of invasive species has been conducted on municipal properties by SSEA staff and supplemented by additional observations throughout the Town from community members.

In 2022, **40** invasive species of plants, fish, and invertebrates were identified within the Town of Midland with a total of **94** species to date. **9** species are further classified as priority invaders in **Table 1**. These species pose a threat to the ecosystems, economy and public health of community members and should be a focus for coordinated management activities and educational opportunities. Priority rankings can change as a result of invasiveness of non-native species, new species introductions, public interest and yearly invasive species monitoring results. A total of **119** invasive species have been documented in the watershed to date (**Table 2**).

94

Invasive species identified in Midland

9

Priority Invasive Species Detected Within the Town of Midland

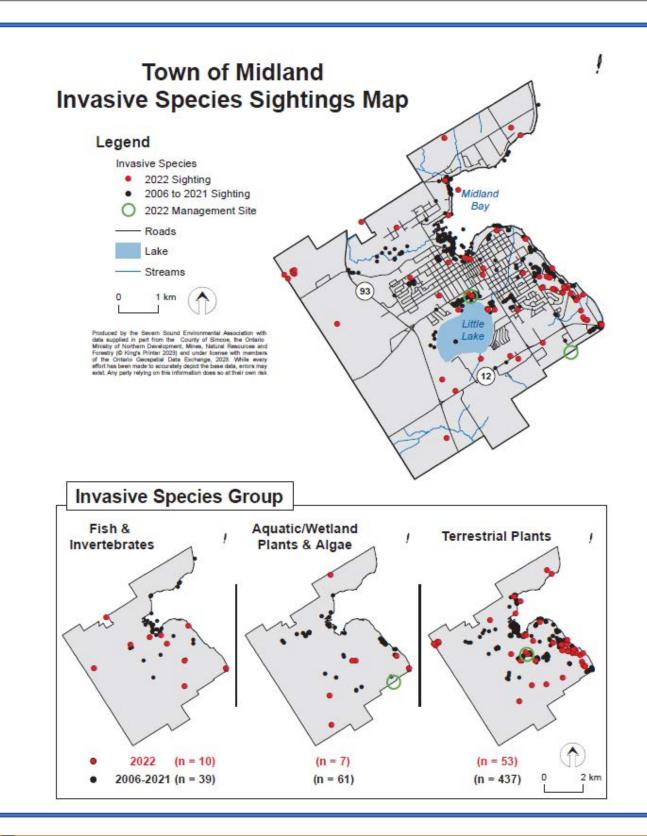


Species Group	Species Name
Aquatic Plants & Algae	Eurasian water-milfoil Starry stonewort Water Lettuce
Terrestrial Plants	Giant hogweed Glossy buckthorn Japanese knotweed
Wetland Plants	Phragmites
Invertebrates	Chinese mystery snail Spongy moth (Ldd)



Garlic Mustard covering forest floor







Municipalities are vulnerable to the economic and social impacts of priority invasive species such as those listed in **Table 1.** For the Town of Midland, high traffic areas including public boat launches, public parks and trail systems are examples of places that are at risk for invasive species introduction and establishment.

SSEA hosted several invasive species management events to control numerous high priority invasive species in Little Lake Park. With the help of local students, volunteers, and Town of Midland staff, SSEA managed Lily of the Valley, Lesser Periwinkle, and Invasive Buckthorns towards the north end of Little Lake Park and Invasive Phragmites along the shoreline adjacent to the boat launch. Surveying and managing additional parks in Midland will be a priority moving forward.

In fall of 2022, SSEA surveyed selected forested locations across the Severn Sound area for the invasive forest pest, spongy moth. The surveys help to forecast potential defoliation for the upcoming season (2023). In areas surveyed, numbers of spongy moth egg masses were low, resulting in a nil to light potential defoliation forecast.



Lesser Periwinkle removal at Little Lake Park



Lesser Periwinkle



Black Locust



Yard waste dumped in local park

Recommendations

The SSEA proposes to lead the following priority actions with the Town of Midland in 2023, with accommodations for COVID-19 restrictions as necessary:

- Continue to monitor the spongy moth outbreak across the Severn Sound watershed and use data to help with future defoliation forecasting
- Continue to manage invasive species at public sites by hosting community removal events (e.g., designated Midland Bee City sites, stormwater management ponds)
- Complete surveillance for the invasive macroalgae starry stonewort in Little Lake
- Support partner organizations and groups in their work to manage invasive species, by providing technical expertise and assistance when possible, and collaborating to expand invasive species knowledge and management efforts across the watershed
- Promote engagement in Citizen Science initiatives to residents to increase invasive species awareness and reporting
- Provide invasive species workshops/educational opportunities for Town of Midland staff and residents







Township of Oro-Medonte



Lily of the Valley, Copeland Forest

Severn Sound watershed municipalities are leading the way on cross-municipal invasive species education and management. The Severn Sound Environmental Association (SSEA) works with the Township of Oro-Medonte, seven other municipalities and local agencies to coordinate the monitoring and management of invasive species on a watershed scale. With support from the Township of Oro-Medonte, monitoring of invasive species has been conducted on municipal properties by SSEA staff and supplemented by additional observations throughout the Township from community members.

In 2022, **29** invasive species of plants, fish, and invertebrates were identified within the Township of Oro-Medonte with a total of **87** species to date. **6** species are further classified as priority invaders in **Table 1**. These species pose a threat to the ecosystems, economy and public health of community members and should be a focus for coordinated management activities and educational opportunities. Priority rankings can change as a result of invasiveness of non-native species, new species introductions, public interest and yearly invasive species monitoring results. A total of **119** invasive species have been documented in the watershed to date (**Table 2**).

87

Invasive species identified in Oro-Medonte



Priority Invasive Species Detected Within the Township of Oro-Medonte

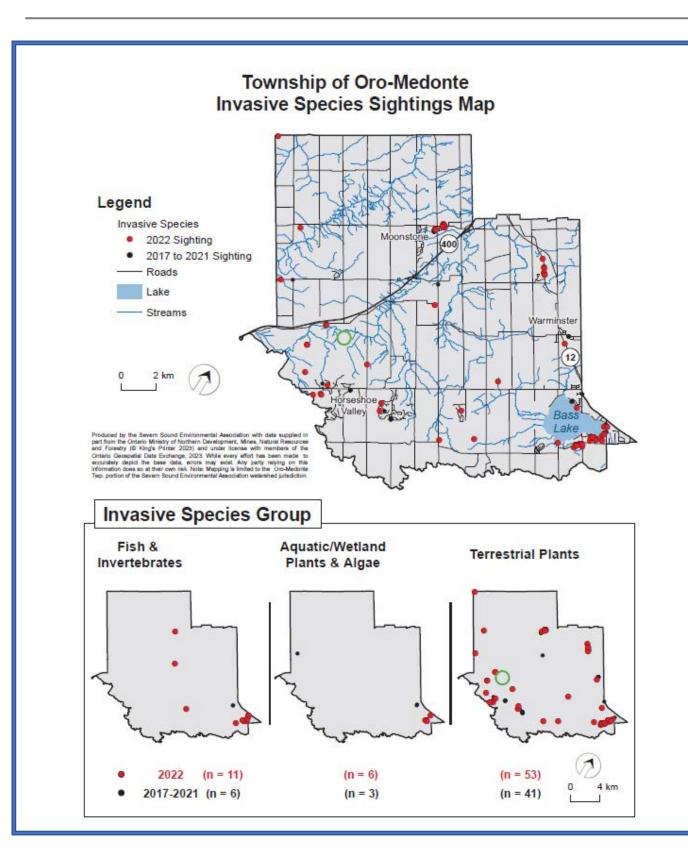


Species Group	Species Name
Aquatic Plants & Algae	European frog-bit
Terrestrial Plants	Garlic mustard Glossy buckthorn
Wetland Plants	Phragmites
Invertebrates	Mystery snails Spongy moth (Ldd)



Coltsfoot patch at Ramey Memorial Park







Municipalities are vulnerable to the economic and social impacts of priority invasive species such as those listed in **Table 1.** For the Township of Oro-Medonte, high traffic areas including Bass Lake, public parks and trail systems are examples of places that are at risk for invasive species introduction and establishment.

Four areas were surveyed by SSEA for invasive species in 2022 including Bass Lake shoreline (public access areas), Horseshoe Valley Memorial Park, Ramey Memorial Park, and Richelieu Park. These locations are susceptible to the introduction and movement of both aquatic and terrestrial invasive species.

In fall of 2022, SSEA surveyed selected forested locations across the Severn Sound area for the invasive forest pest, spongy moth. The surveys help to forecast potential defoliation for the upcoming season (2023). In areas surveyed, numbers of spongy moth egg masses were low, resulting in a nil to light potential defoliation forecast.



Bladder Campion at Ramey Memorial Park



Yard waste dumping at local park



Greater Burdock



Goutweed growing from yard waste dump site

Recommendations

The SSEA proposes to lead the following priority actions with the Township of Oro-Medonte in 2023, with accommodations for COVID-19 restrictions as necessary:

- Continue to monitor the spongy moth outbreak across the Severn Sound watershed and use data to help with future defoliation forecasting
- Support and coordinate community invasive species management events
- Support partner organizations and groups in their work to manage invasive species, by providing technical expertise and assistance when possible, and collaborating to expand invasive species knowledge and management efforts across the watershed
- Promote engagement in Citizen Science initiatives to residents to increase invasive species awareness and reporting
- Provide invasive species workshops/educational opportunities for Township of Oro-Medonte staff and residents







Town of Penetanguishene



Phragmites, Rotary Champlain Wendat Park

Severn Sound watershed municipalities are leading the way on cross-municipal invasive species education and management. The Severn Sound Environmental Association (SSEA) works with the Town of Penetanguishene, seven other municipalities and local agencies to coordinate the monitoring and management of invasive species on a watershed scale. With support from the Town of Penetanguishene, monitoring of invasive species has been conducted on municipal properties by SSEA staff and supplemented by additional observations throughout the Town from community members.

In 2022, 18 invasive species of plants, fish. and invertebrates identified within the Town were Penetanguishene with a total of 63 species to date. 7 species are further classified as priority invaders in Table 1. These species pose a threat to the ecosystems, economy and public health of community members and should be a coordinated management activities educational opportunities. Priority rankings can change as a result of invasiveness of non-native species, new species introductions, public interest and yearly invasive species monitoring results. A total of 119 invasive species have been documented in the watershed to date (Table 2).

63

Invasive species identified in Penetanguishene

7

Priority Invasive Species Detected Within the Town of Penetanguishene

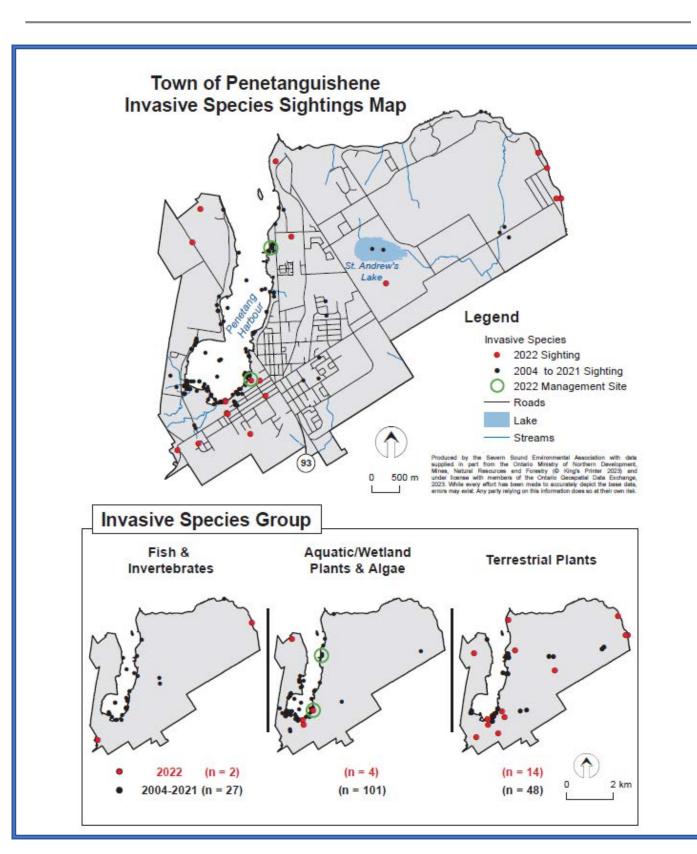


Species Group	Species Name
Aquatic Plants & Algae	Eurasian water-milfoil Starry stonewort
Terrestrial Plants	Glossy buckthorn Spotted knapweed
Wetland Plants	Phragmites
Invertebrates	Spongy moth (Ldd) Zebra mussels



Garlic Mustard in first growing year







Municipalities are vulnerable to the economic and social impacts of priority invasive species such as those listed in **Table 1.** For the Town of Penetanguishene, high traffic areas including public parks, public boat launches and marinas and trail systems are examples of places that are at risk for invasive species introduction and establishment.

SSEA and the Town of Penetanguishene continued community management of Phragmites at Rotary Champlain Wendat Park to help preserve its ecological and recreational value. Two sites that were managed for the second year in a row. Phragmites was entirely removed at the pond and ditch sites. Continued management will be required for long-term management success. Provided training to municipal roads staff on invasive species detection and management techniques.

In fall of 2022, SSEA surveyed selected forested locations across the Severn Sound area for the invasive forest pest, spongy moth. The surveys help to forecast potential defoliation for the upcoming season (2023). In areas surveyed, numbers of spongy moth egg masses were low, resulting in a nil to light potential defoliation forecast.









Invasive Phragmites

Manitoba Maple

Glossy Buckthorn

Crown Vetch at Ecology Garden

Recommendations

The SSEA proposes to lead the following priority actions with the Town of Penetanguishene in 2023, with accommodations for COVID-19 restrictions as necessary:

- Continue to monitor the spongy moth outbreak across the Severn Sound watershed and use data to help with future defoliation forecasting
- Continue to manage Phragmites in Rotary Champlain Wendat Park by hosting community removal events, and purchase and plant native local appropriate species as funding permits.
- Continue monitoring for the invasive macroalgae starry stonewort along the Penetanguishene coastline
- Support partner organizations and groups in their work to manage invasive species, by providing technical expertise and assistance when possible, and collaborating to expand invasive species knowledge and management efforts across the watershed
- Promote engagement in Citizen Science initiatives to residents to increase invasive species awareness and reporting
- Provide invasive species workshops/educational opportunities for Town of Penetanguishene staff and residents





Township of Severn



Giant Hogweed, Uhthoff Trail

Severn Sound watershed municipalities are leading the way on cross-municipal invasive species education and management. The Severn Sound Environmental Association (SSEA) works with the Township of Severn, seven other municipalities and local agencies to coordinate the monitoring and management of invasive species on a watershed scale. With support from the Township of Severn, monitoring of invasive species has been conducted on municipal properties by SSEA staff and supplemented by additional observations throughout the Township from community members.

In 2022, **31** invasive species of plants, fish, and invertebrates were identified within the Township of Severn with a total of **88** species to date. **8** species are further classified as priority invaders in **Table 1**. These species pose a threat to the ecosystems, economy and public health of community members and should be a focus for coordinated management activities and educational opportunities. Priority rankings can change as a result of invasiveness of nonnative species, new species introductions, public interest and yearly invasive species monitoring results. A total of **119** invasive species have been documented in the watershed to date (**Table 2**).

88

Invasive species identified in Severn

8

Priority Invasive Species Detected Within the Township of Severn

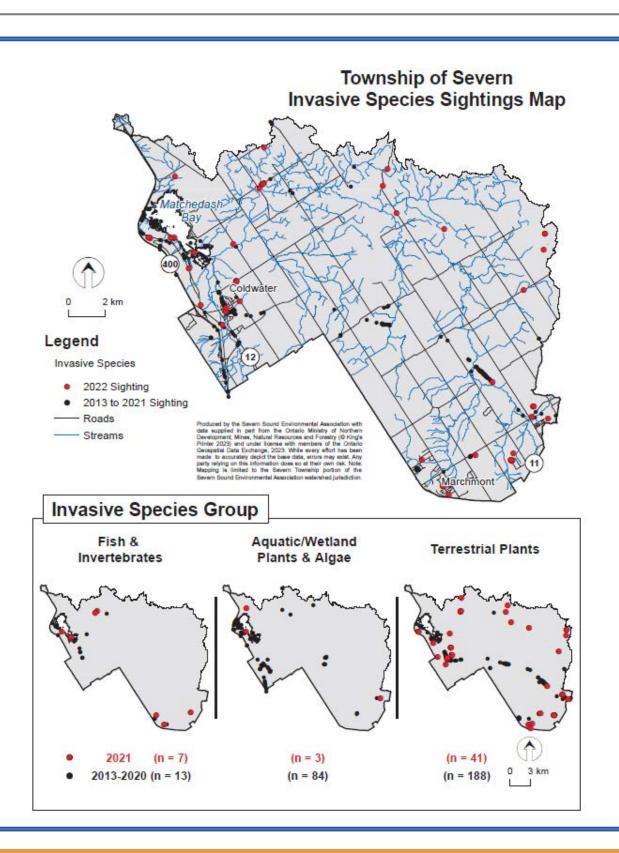


Species Group	Species Name
Terrestrial Plants	Dog-strangling vine Garlic mustard Giant hogweed Glossy buckthorn Japanese knotweed
Wetland Plants	Phragmites
Invertebrates	Chinese mystery snails Spongy moth (Ldd)



Giant hogweed along the Uhthoff trail







Municipalities are vulnerable to the economic and social impacts of priority invasive species such as those listed in **Table 1**. For the Township of Severn, high traffic areas including public parks and road and trail systems are examples of places that are at risk for invasive species introduction and establishment.

SSEA continued assist Township of Severn staff with giant hogweed identification and management through private contractors. The preferred management technique has been foliar herbicide application to target giant hogweed infestations along the Uhthoff trail. As an extremely noxious species, SSEA will continue to prioritize hogweed management throughout the township with the goal of eradication.

In fall of 2022, SSEA surveyed selected forested locations across the Severn Sound area for the invasive forest pest, spongy moth. The surveys help to forecast potential defoliation for the upcoming season (2023). In areas surveyed, numbers of spongy moth egg masses were low, resulting in a nil to light potential defoliation forecast.









Giant hogweed leaf

Black locust tree found while monitoring

Spotted Knapweed

Scots Pine

Recommendations

The SSEA proposes to lead the following priority actions with the Township of Severn in 2023, with accommodations for COVID-19 restrictions as necessary:

- Assist with giant hogweed and other invasive/noxious weed identification along roadsides, public
 properties, and trail systems. Support Severn in their hogweed management programs through technical
 support and staff training
- Support and coordinate community invasive species management events
- Support partner organizations and groups in their work to manage invasive species, by providing technical expertise and assistance when possible, and collaborating to expand invasive species knowledge and management efforts across the watershed
- Promote engagement in Citizen Science initiatives to residents to increase invasive species awareness and reporting
- Provide invasive species workshops/educational opportunities for Township of Severn staff and residents







Township of Springwater



Zebra Mussels, Orr Lake

Severn Sound watershed municipalities are leading the way cross-municipal invasive species education management. The Severn Sound Environmental Association (SSEA) works with the Township Springwater, seven other municipalities and local agencies to coordinate the monitoring and management of invasive species on a watershed scale. With support from the Township of Springwater, monitoring of invasive species has been conducted on municipal properties by SSEA staff and supplemented by additional observations throughout the Township from community members.

In 2022, 39 invasive species of plants, fish and invertebrates were identified within the Township of Springwater, with a total of 88 species to date. 8 species are further classified as priority invaders in Table 1. These species pose a threat to the ecosystems, economy and public health of community members and should be a focus for coordinated management activities and educational opportunities. Priority rankings can change as a result of invasiveness of non-native species, new introductions, public interest and yearly invasive species monitoring results. A total of 119 invasive species have been documented in the watershed to date (Table 2).

88

Invasive species identified in Springwater

8

Priority Invasive Species Detected Within the Township of Springwater

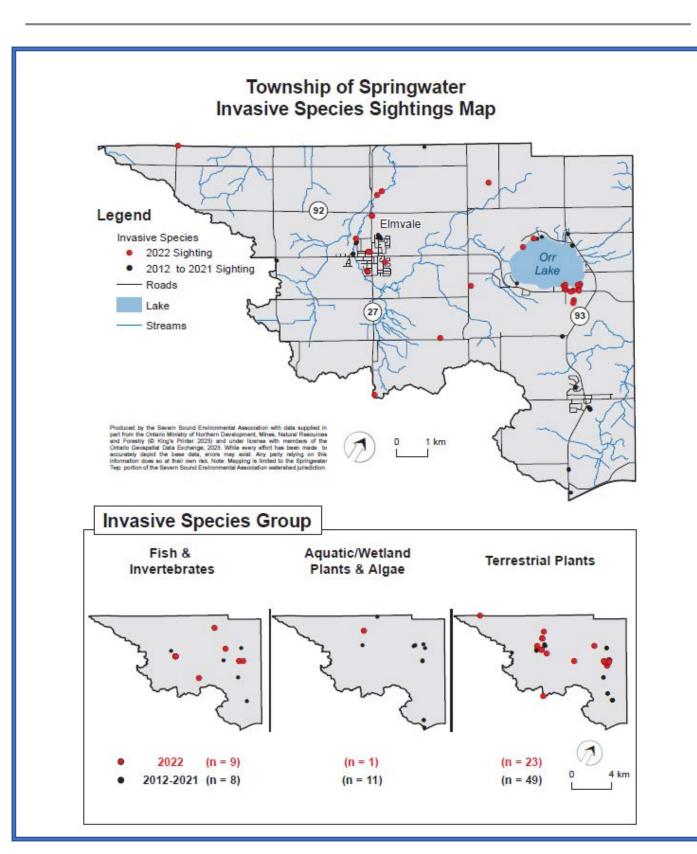


Species Group	Species Name
Aquatic Plants & Algae	Eurasian water-milfoil
Terrestrial Plants	Dog-strangling vine Glossy buckthorn Japanese knotweed
Wetland Plants	Phragmites
Invertebrates	Chinese mystery snails Spongy moth (Ldd) Zebra & quagga mussels



Lesser Periwinkle at Orr Lake Park







Municipalities are vulnerable to the economic and social impacts of priority invasive species such as those listed in **Table 1.** For the Township of Springwater, high traffic areas including public boat launches, public parks and trail systems are examples of places that are at risk for invasive species introduction and establishment.

Seven public areas were surveyed by SSEA for invasive species in 2022 including Bishop Park, Elmvale Heritage Park, Graham Macdonald Park, Hillsdale Community Park, Homer Barret Park, Robinson Park, and Orr Lake Park. These locations are susceptible to the introduction and movement of both aquatic and terrestrial invasive species. In addition to terrestrial sites, SSEA completed a targeted survey for zebra mussels in Orr Lake, and confirmed that zebra mussels are established in the lake.

In fall of 2022, SSEA surveyed selected forested locations across the Severn Sound area for the invasive forest pest, spongy moth. The surveys help to forecast potential defoliation for the upcoming season (2023). In areas surveyed, numbers of spongy moth egg masses were low, resulting in a nil to light potential defoliation forecast.



Field Bindweed



Chinese Mystery Snail, Orr Lake Park



Bittersweet Nightshade



Common Buckthorn

Recommendations

The SSEA proposes to lead the following priority actions with the Township of Springwater in 2023, with accommodations for COVID-19 restrictions as necessary:

- Continue to monitor the spongy moth outbreak across the Severn Sound watershed and use data to help with future defoliation forecasting
- Support and coordinate community invasive species management events
- Support partner organizations and groups in their work to manage invasive species, by providing technical expertise and assistance when possible, and collaborating to expand invasive species knowledge and management efforts across the watershed
- Promote engagement in Citizen Science initiatives to residents to increase invasive species awareness and reporting
- Provide invasive species workshops/educational opportunities for Township of Springwater staff and residents







Township of Tay



Glossy Buckthorn, Mackenzie Beach

Severn Sound watershed municipalities are leading the way on cross-municipal invasive species education and management. The Severn Sound Environmental Association (SSEA) works with the Township of Tay, seven other municipalities and local agencies to coordinate the monitoring and management of invasive species on a watershed scale. With support from the Township of Tay, monitoring of invasive species has been conducted on municipal properties by SSEA staff and supplemented by additional observations throughout the Township from community members.

In 2022, **37** invasive species of plants, fish, and invertebrates were identified within the Township of Tay with a total of **83** species to date. **7** species are further classified as priority invaders in **Table 1**. These species pose a threat to the ecosystems, economy and public health of community members and should be a focus for coordinated management activities and educational opportunities. Priority rankings can change as a result of invasiveness of non-native species, new species introductions, public interest and yearly invasive species monitoring results. A total of **119** invasive species have been documented in the watershed to date (**Table 2**).

B3 Inva

Invasive species identified

7

Priority Invasive Species Detected Within the Township of Tay



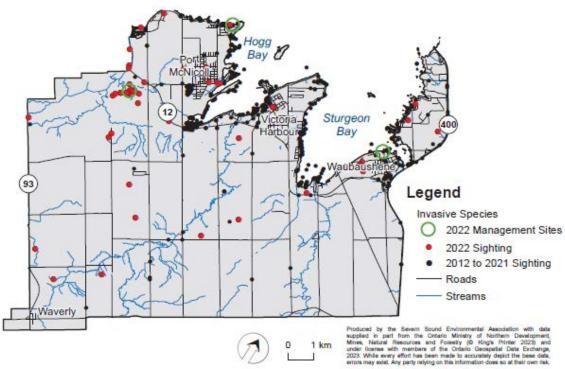
Species Group	Species Name
Aquatic Plants & Algae	Eurasian water-milfoil
Terrestrial Plants	Dog-strangling vine Glossy buckthorn Himalayan balsam Japanese knotweed
Wetland Plants	Phragmites
Invertebrates	Zebra & quagga mussels

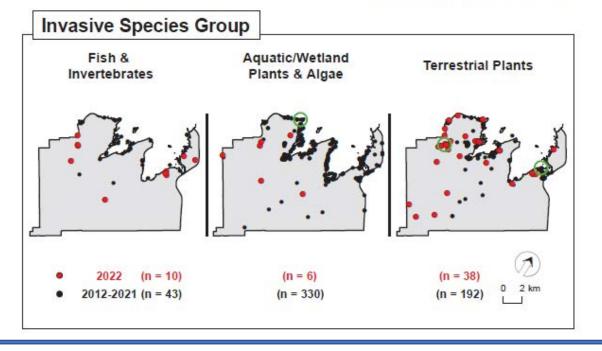


Invasive Phragmites at Patterson Park











Municipalities are vulnerable to the economic and social impacts of priority invasive species such as those listed in **Table 1**. For the Township of Tay, high traffic areas including public or shared beach areas, public parks and trail systems are examples of places that may be at greater risk for invasive species introduction and establishment.

Seven areas were surveyed by SSEA for invasive species in 2022 including Calvert Park, Eplett Park, Magnus Beach, McKenzie Beach, Patterson Park, Talbot Park and the Waubaushene Town Dock. These locations are susceptible to the introduction and movement of both aquatic and terrestrial invasive species. With community support, SSEA coordinated invasive species management activities at four locations including Waubaushene Beach, Patterson Park, Tay Shore Trail, and Wye Marsh.

In fall of 2022, SSEA surveyed selected forested locations across the Severn Sound area for the invasive forest pest, spongy moth. The surveys help to forecast potential defoliation for the upcoming season (2023). In areas surveyed, numbers of spongy moth egg masses were low, resulting in a nil to light potential defoliation forecast.







Coltsfoot on Tav Shore Trail



White Sweet Clover at Patterson Park

Recommendations

The SSEA proposes to lead the following priority actions with the Township of Tay in 2023, with accommodations for COVID-19 restrictions as necessary:

- Continue to monitor the spongy moth outbreak across the Severn Sound watershed and use data to help with future defoliation forecasting
- Support the Township in managing invasive species along the Tay trail (e.g., dog-strangling vine, Japanese knotweed, wild parsnip)
- Support partner organizations and groups in their work to manage invasive species, by providing technical expertise and assistance when possible, and collaborating to expand invasive species knowledge and management efforts across the watershed
- Promote engagement in Citizen Science initiatives to residents to increase invasive species awareness and reporting
- Provide invasive species workshops/educational opportunities for Township of Tay staff and residents
- Support and coordinate community invasive species management events





Township of Tiny



Yellow Iris, Lafontaine Beach

Severn Sound watershed municipalities are leading the way on cross-municipal invasive species education and management. The Severn Sound Environmental Association (SSEA) works with the Township of Tiny, seven other municipalities and local agencies to coordinate the monitoring and management of invasive species on a watershed scale. With support from the Township of Tiny, monitoring of invasive species has been conducted on municipal properties by SSEA staff and supplemented by additional observations throughout the Township from community members.

In 2022, **61** invasive species of plants, fish, and invertebrates were identified within the Township of Tiny with a total of **95** species to date. **6** species are further classified as priority invaders in **Table 1**. These species pose a threat to the ecosystems, economy and public health of community members and should be a focus for coordinated management activities and educational opportunities. Priority rankings can change as a result of invasiveness of non-native species, new species introductions, public interest and yearly invasive species monitoring results. A total of **119** invasive species have been documented in the watershed to date (**Table 2**).

95

Invasive species identified in Tiny

6

Priority Invasive Species Detected Within the Township of Tiny

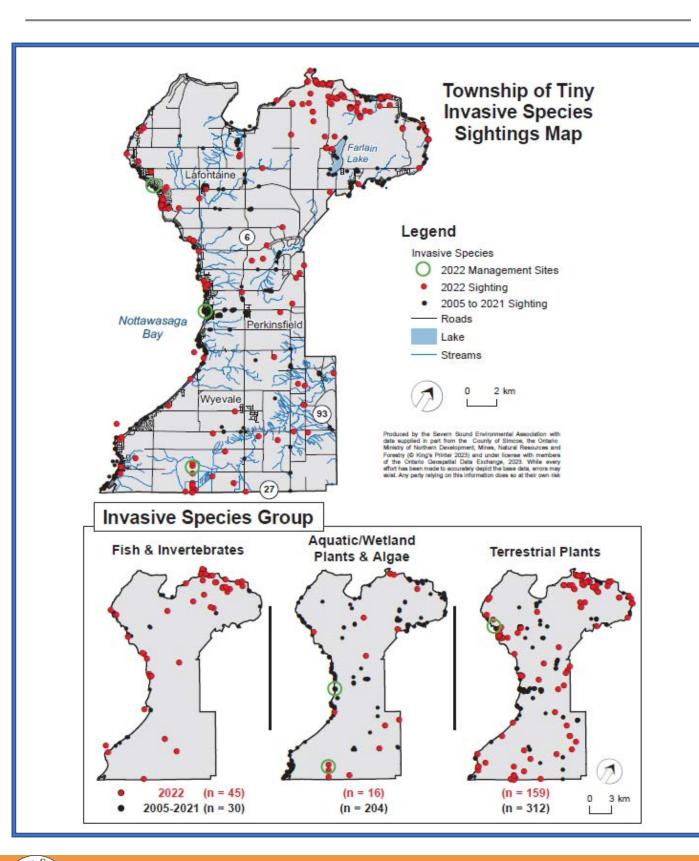


Species Group	Species Name
Aquatic Plants & Algae	Eurasian water-milfoil
Terrestrial Plants	Glossy buckthorn Japanese knotweed Spotted knapweed White sweet clover
Wetland Plants	Phragmites



Invasive Phragmites, Jackson Park







Municipalities are vulnerable to the economic and social impacts of priority invasive species such as those listed in **Table 1**. For the Township of Tiny, high traffic areas including public or shared beach areas, public parks and trail systems are examples of places that may be at greater risk for invasive species introduction and establishment.

In 2022, SSEA continued to coordinate community phragmites management with Tiny Township and Cawaja Property Owners Association at Cawaja Beach. SSEA and M-T-M Conservation Association teamed up to offer training and educational opportunities for local high school students at Tiny Marsh, with over 20 students helping to manage invasive phragmites at the site. Beaches and wetlands will be high priority for phragmites management activities due to their cultural, recreational, and ecological importance to the township.

In fall of 2022, SSEA surveyed selected forested locations across the Severn Sound area for the invasive forest pest, spongy moth. The surveys help to forecast potential defoliation for the upcoming season (2023). In areas surveyed, numbers of spongy moth egg masses were low, resulting in a nil to light potential defoliation forecast.



Phragmites management at Cawaja Beach



Spongy moth egg masses



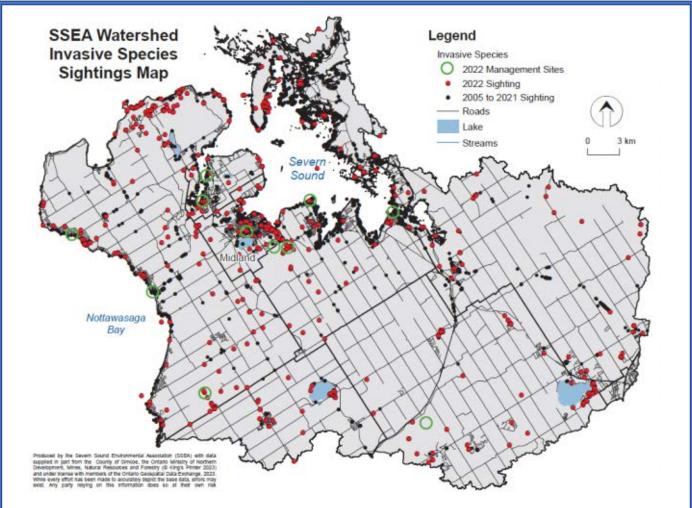
Biting stonecrop at Lafontaine Beach

Recommendations

The SSEA proposes to lead the following priority actions with the Township of Tiny in 2023:

- Monitor waterways for water lettuce an invasive species of aquatic plant recently found in the Wye River near Midland
- Continue to manage spotted knapweed, phragmites and other priority invasive species at public sites by hosting community removal events
- Support partner organizations and groups in their work to manage invasive species, by providing technical expertise and assistance when possible, and collaborating to expand invasive species knowledge and management efforts across the watershed
- Increase engagement in Citizen Science initiatives such as the Invasive Species Spotter project to expand our understanding of invasive species distribution across the township and better detect new invasions as they occur.
- Provide invasive species workshops/educational opportunities for Township of Tiny staff and residents





119 species have been identified across the Severn Sound watershed to date. A list of all invasive species documented to date through the SSEA Invasive Species Program is provided in **Table 2**.

2022 Watershed Invasive Species Summary

- 43 sites surveyed for invasive species
- 658 occurrences of invasive species
- 12 SSEA/municipal-led community removal projects
- 120+ volunteers involved in community invasive species management
- 460 person hours spent on management (including volunteers, SSEA staff and municipal staff)
- **5** spongy moth egg mass surveys completed across the watershed to provide a potential defoliation forecast for 2023



Giant Hogweed















List of documented invasive species found within the SSEA watershed to date. Highlighted rows indicate a species that has become established across eight municipalities. Species that are a considerable detriment to ecosystems, economy or human health have been prioritized in Table 1.

	ecosystems, e	COLIDITIY	oi namann	Caiti	illa	re bee	τι ρποπι	ZGU III TO	
Species	Scientific Name	Midland	Penetanguishene	Tiny	Tay	Severn	Georgian Bay	Oro- Medonte	Springwater
Amur Maple	Acer ginnala	Х		Х	Х	Х		Х	Х
Annual Honesty	Lunaria annua			Χ				Х	
Asian Lady Beetle	Harmonia axyridis	Χ	X	Χ	Х	Х	Χ	Χ	X
Autumn Olive	Elaegnus umbellata	Х		Х	Х				Х
Banded Mystery Snail	Viviparus georgianus						Х	Х	
Basil-thyme	Clinopodium acinos	Х		Χ		Х			
Bird's-eye Speedwell	Veronica persica		Х	Χ	Х	x		Х	X
Bird's-foot Trefoil	Lotus corniculatus	Χ	Х	Χ	Χ	Х	Χ	Х	Х
Biting Stonecrop	Sedum acre	Х	Х	Χ	Х	Х	Х		Х
Bitter Wintercress	Barbarea vulgaris	Х	X	Χ	Χ	Х	Χ	Х	X
Bittersweet Nightshade	Solanum dulcamara	Х	×	Х	Х	X	Х	Х	Х
Black Locust	Robinia pseudoacacia	Χ	Х	Χ	Χ	Х	Χ	Х	Х
Bladder Campion	Silene vulgaris	Χ	X	Χ	Χ	Х	Х	X	X
Broad-leaved Helleborine	Epipactis helleborine	X	×	Х	Х	Х	Х	Х	Х
Brown Marmorated Stink Bug	Halyomorpha halys	Х							
Bull Thistle	Cirsium vulgare	Χ	X	Х	Х	X	Χ	Х	X
Butternut Canker	Ophiognomonia clavigignenti- juglandacearum				Х	х		Х	
Canada Thistle	Cirsium aervense	Х		Χ	Χ	Х		Х	Х
Carpet Bugle	Ajuga reptans			Χ	Х	Х	Χ	Х	Х
Chicory	Cichorium intybus	Х	X	Χ	Х	Х	Χ	Х	Х
Chinese Mystery Snail	Cipangopaludina chinensis	X			Х	Х	Х	Х	Х
Coltsfoot	Tussilago farfara	Χ	X	Χ	Х	Х	Χ	Х	X
Common Buckthorn	Rhamnus cathartica	Χ		Χ	Х	Х	Χ	Х	Х
Common Comfrey	Symphytum officinale			Х					
Common Guelder-rose	Viburnum opulus opulus			Х	Х	X			
Common Lilac	Syringa vulgaris	Χ		Χ		Х	Χ	Х	Х
Common Soapwort	Saponaria officinalis	Х	X	Χ	X	Х	Χ	X	X
Common Sow-thistle	Sonchus oleraceus			Χ					Х
Common Swift Moth	Korscheltellus lupulina	Х		Х	Х	Х		Х	Х
Creeping Bellflower	Campanula rapunculoides	X	Х	Χ	Х	Х	Х	Х	Х
Creeping Jenny	Lysimachia nummularia	Х			Х	Х	Х	Х	Х
Curly Dock	Rumex crispus			Χ	Х	Х	Х	Х	Х
Curly-leaved Pondweed	Potamogeton crispus	Х	Х	Х		Х	Х		Х
Dame's Rocket	Hesperis matronalis	Х	X	Χ	Х	Х	X	Х	Х
Deptford pink	Dianthus armeria	Χ	X	Χ	Х	Х	Χ	Х	X
Dog-Strangling Vine	Vincetoxicum rossicum			Х	Х	Х	Х	Х	Х
Emerald Ash Borer	Agrilus planipennis	Х	Х	Χ	Х	Х	Х	Х	Х



English Ivy













Species	Scientific Name	Midland	Penetanguishene	Tiny	Tay	Severn	Georgian Bay	Oro- Medonte	Springwater
English plantain	Plantago lanceolata			Χ	Х	Х	Х	Х	Х
Eurasian Water-milfoil	Myriophyllum spicatum	Х	X	Χ	Х	Х	X	X	Х
European Frog-bit	Hydrocharis morsus- ranae					Х		Х	Х
Everlasting Pea	Lathyrus latifolius	Х	X	Χ	Х	Х	X	X	Х
Feather Reed Grass	Calamagrostis acutiflora						Х		
Flowering Rush	Butomus umbellatus			Χ		Х	Х		
Forget-Me-Not	Myosotis scorpioides	Х		Х	Х	Х	Х	Х	
Freshwater Jellyfish	Craspedacusta sowerbii		Х				Х		
Garlic Mustard	Alliaria petiolata	Х	X	Χ	Х	Х	Х	Х	Х
Giant Hogweed	Heracleum mantegazzianum	Х		Х	Х	Х	Х	Х	Х
Glossy Buckthorn	Rhamnus frangula	Х	X	Χ	Х	Х	X	Х	Х
Goldfish	Carassius auratus				Х	Х			Х
Goutweed	Aegopodium podagraria	X	Х	Х	Х	Х	X	Х	Х
Greater Burdock	Arctium lappa			Χ	Х	Х	Χ	Χ	
Greater Celandine	Chelidonium majus	Χ		Χ		Х	Χ	Χ	X
Ground-Ivy	Glechoma hederacea	Χ	X	Χ	Χ	X	Χ	X	Х
Hairy Willowherb	Epilobium hirsutum	Χ	X	Χ	Х	Х	Χ		X
Himalayan Balsam	Impatiens glandulifera	X	X	Χ	Х	Х		Х	Х
Hoary Alyssum	Berteroa incana	X	X	Х	Х	Х	X	X	Х
Hybrid Cattail	Typha x glauca		Х	Х	Х	Х	X	Х	
Invasive Honeysuckles	Lonicera sp.	X	X	Χ	X	Х	X	Х	Х
Japanese Barberry	Berberis thunbergii	V	X		X				
Japanese Beetle	Popillia japonica	X	X	X	X	X	X	X	X
Japanese Knotweed	Fallopia japonica	X	Х	Χ	X	Χ	X	X	X
Japanese Pachysandra	, and the second				^				
Large Yellow Underwing	·	X	Х	Х		Х	Х	X	Х
Leafy Spurge	Euphorbia esula	X						X	
Lesser Burdock	Arctium minus	X		Х	Х	Х	Х	Х	Х
Lesser Celandine	Ficaria verna				X			X	X
Lesser Periwinkle	Vinca minor	X	X	X	X	X	X	X	X
Lily of the Valley	Convallaria majalis	X	X	X	X	X	X	X	X
Manitoba Maple Narrow-leaved Cattail	Acer negundo Typha angustifolia	X	X	^	X	X	X	X	^
Nipplewort	Lapsana communis	X	X	Х		X	X	X	Х
Norway Maple	Acer platanoides	X	X	X	Х		X	X	X
Orange Day-lily	Hemerocallis fulva	X	X	X	X	Х	X	X	X
Orange Hawkweed	Pilosella aurantiaca	X	Х	X	X	X	X	X	X
Orchard Grass	Dactylis glomerata	X	X	X	X	X	X	X	X
Oriental Bittersweet	Celastrus orbiculatus	Х						Х	Х
Oxeye Daisy	Leucanthemum vulgare	Х	Х	Χ	Х	Х	Х	Х	Х
Phragmites	Phragmites australis ssp. australis	Х	Х	Х	Х	Х	Х	Х	Х
Purple Crownvetch	Securigera varia	Х	Х	Х	Х		Х	Х	Х
Purple Loosestrife	Lythrum salicaria	Χ	X	Χ	Χ	Х	Х	Х	Х
TOWNS TOWNS		- 1	-		(A)	£6 @a	Dollar.		















Species	Scientific Name	Midland	Penetanguishene	Tiny	Tay	Severn	Georgian Bay	Oro- Medonte	Springwater
Quack Grass	Elymus repens	Х					Х	Х	
Quagga Mussel	Dreissena bugensis	Χ		Х	Х	Х	Χ	Х	
Rainbow Smelt	Osmerus mordax	Χ	X	Χ					
Reed Canary Grass	Phalaris arundinacea	Χ	X	Χ	Х	Х	Χ	Х	Х
Ribbon Grass	Phalaris arundinacea 'Ribbon'	Х							
Round Goby	Neogobius melanostomus	X	Х	Х	Х	Х	Х	Х	Х
Rusty Crayfish	Orconectes rusticus			Х		х		Х	Х
Scots Pine	Pinus sylvestris	Χ	X	Χ	Χ	Х	Χ	Х	X
Sheep's sorrel	Rumex acetosella			Χ	Х	Х	Χ		Х
Siberian squill	Scilla siberica	X		Χ		Х		Х	Х
Silver Poplar	Populus alba	X		Χ				Х	Х
Silvergrasses	Miscanthus sp.	Х	X	Χ			Х	Х	Х
Smooth Brome	Bromus inermis	X		Х	Х		X	Х	Х
Soapwort	Saponaria officinalis	X	X	Χ	Х	Х	X	Х	Х
Spiny Waterflea	Bythotrephes longimanus			Х			Х		
Spongy Moth	Lymantria dispar dispar	X	X	Χ	Х	Х	Х	Х	Х
Spotted Knapweed	Centaurea maculosa	X	Х	Χ	Х	Х	X	Х	Х
Spotted Lady's Thumb	Persicaria maculosa			Χ			Х	Х	
St. John's-wort	Hypericum perforatum	Х	X	Χ	Х	Х	Χ	X	X
Star-of-Bethlehem	Ornithogalum umbellatum	Х			Х			Х	Х
Starry Stonewort	Nitellopsis obtusa	Х	X	Χ	Х	Х	Χ		
Sweet Woodruff	Galium odoratum	Х		Χ		Х	Χ	Х	X
Tansy	Tanacetum vulgare	Х	X	Χ	Х	Х	Х	Х	X
Threespine Stickleback	Gasterosteus aculeatus	X							
Toadflax	Linaria vulgaris	Х		Х	Х	Х	Х	Х	Х
Tubenose Goby	Proterorhinus semilunaris	Х			Х	х	Х		
Tufted Vetch	Vicia cracca	Х	Х	Х	Х	Х	Х	Х	Х
Water Lettuce	Pistia stratiotes	Х							
Watercress	Nasturtium officinale	Х	Х	Х	Х	Х			Х
White Mulberry	Morus alba	Х							
White Perch	Morone americana	Х	Х						
White Sweetclover	Melilotus alba	Х	X	Χ	Х	Х	Х	Х	Х
Wild Parsnip	Pastinaca sativa	Х		Х		Х		Х	Х
Winged Euonymus	Euonymus alatus	Х					Х		
Yellow Archangel	Lamium galeobdolon	Х		Х				Х	Х
Yellow Iris	Iris pseudacorus	Χ	X	Χ	Х	Х	Х	Х	Х
Yellow Sweetclover	Melilotus officinalis			Х					
Zebra Mussel	Dreissena polymorpha	Х	Х	Χ	Х	Х	Х	Х	Х
	MF 64-CANTON DE	Town of Ville st-		00.8	-	14 H2 - 1	(d)	A CONTRACTOR	
10000	ATT	ALE THE	10000	1	B		No. of Par	EE Y DA	200































