

Entering Survey Data in iMapInvasives

Survey data provides information on the search for a particular species or set of species including whether or not the species was found (presence or absence). When completing a survey record, you will draw a polygon around the area that was searched and then describe the specifics of the survey (target species, amount of people in the crew, paid vs. volunteer, weather conditions, etc.).

Users **Level 4** and higher will be able to enter survey data.

The screenshot shows the iMapInvasives Pennsylvania User Tools interface. At the top, there is a header with the iMapInvasives logo, the text "Pennsylvania User Tools", and a user welcome message for "Aspen" (aspweitzel_3, User Level 7) 2.13. Below the header, there is a navigation bar with four buttons: "My iMapInvasives", "Resources", "Data Management", and "System Management". The "My iMapInvasives" button is highlighted with an orange box. Below the navigation bar, there are four main sections: "Enter Data", "View the Map", "View Table", and "Query and Reports". The "Enter Data" section is highlighted with an orange box, and it contains a list of links: "Observation", "Survey", "Treatment", and "Infestation Management". The "Survey" link is highlighted with an orange box. The "View the Map" section contains links for "View the Map" and "Not using a high-speed internet connection?". The "View Table" section contains links for "All Observations", "Surveys", "Treatments", "Infestation Management", "Assessments", "Animals", "Insects", "Plants", and "IPMDAT Shared Results". The "Query and Reports" section contains links for "Custom Observation Query", "All Data Summary Report", "All Species by County", "Table", "Infested Lakes", "Table", "Report - All Lakes", "Report - You Pick the Lake", "Active Projects", "All Projects", and "My Projects with Details".

To Enter Survey Data: From the My iMapInvasives page, click on the **Survey** link in the Enter Data box.

To begin, you must select what **type** of survey you are entering, as seen in the drop box below. Each survey type has a description available.

iMapInvasives
Sharing information
for strategic management

Pennsylvania User Tools

Welcome back, **Aspen**
(aspweitzel_3; User Level 7) 2.13
[Home](#) [Log Out](#)

[Data Management](#) :: [Surveys](#) :: [Survey Information](#)

Survey Information

[New Record](#)

Basic Survey Fields

Do not use special symbols in text boxes. Only letters, numbers, and characters found on common keyboards are accepted.

* Type
[For descriptions of all survey types, click here](#)

* Lead Contact

Project Name

Aquatic Simple
Aquatic Systematic
Cerceris Wasp
Host tree
Linear
Terrestrial Simple
Terrestrial Systematic

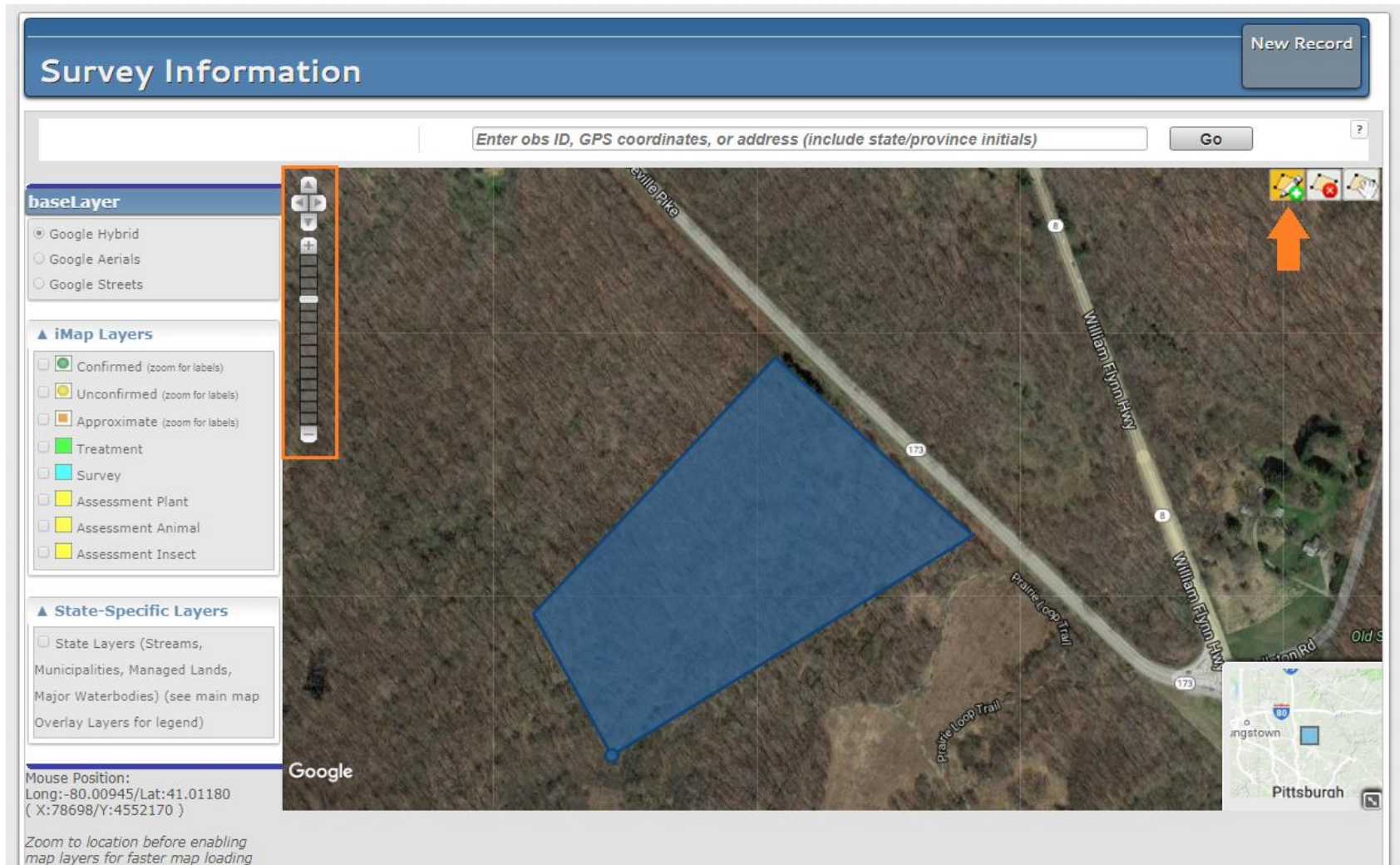
?

?

?

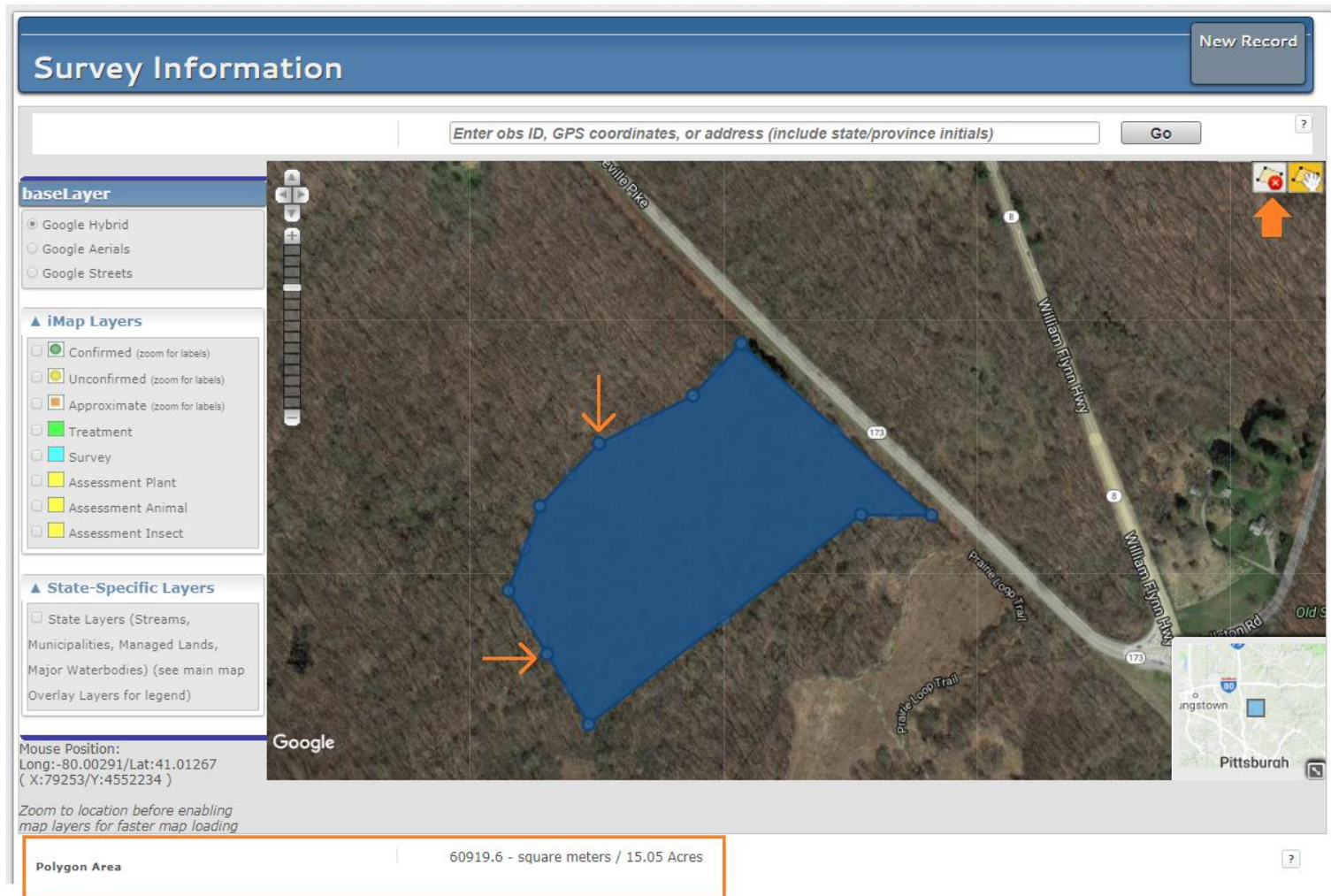
After you have selected the survey type, you will then be able to draw the associated survey polygon.

Navigate to your survey area on the map using the zoom tool on the left side. Click the leftmost of the tool buttons in the upper right-hand corner to activate the **Draw** tool, and then click on the map to add vertices to the survey polygon.



Double click at the last vertices to enclose the polygon.

Click and drag the vertices to reshape the polygon. Use the left tool button to delete the polygon if you wish to re-draw.



Notice that once you have drawn a polygon, the polygon (survey) area is displayed in square meters directly below the map for your reference.

Begin filling in the information located in the **Basic Survey Fields** section. Required fields are highlighted in pink. When entering information for the **Survey Start Date & Survey End Date** fields, click the white box next to each field label to bring up a calendar for choosing the appropriate day(s).

Basic Survey Fields

Do not use special symbols in text boxes. Only letters, numbers, and characters found on common keyboards are accepted.

* Type For descriptions of all survey types, click here	Terrestrial Simple – If you need to select a different survey type you will need to restart the record. Press Ctrl + F5	?
* Lead Contact	Weitzel, Aspen	?
Project Name	-----	?
Site		?
* Goal	c) Pre-treatment survey	?
* Start Date	2018-04-03	?
* End Date		?
* Target Species		?
Detected Species		?

An Observation record needs to be created for each Targeted Species Detected.

- Automatically generate one observation for each targeted species detected seen above for me.
- Do NOT automatically generate observations for me.

Please enter an Observation for any Targeted Species found. If you enter more than one observation, separate them by a comma or semi-colon
Click the following link to start the data entry process for a new [Observation record](#).

April 2018

Mo	Tu	We	Th	Fr	Sa	Su
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6

Some fields, such as the **Targeted Species** & **Targeted Species Detected** fields, allow you to choose more than one option. Be sure to choose all species that were targeted and detected for this survey. If none of the targeted species were found during the survey (considered an “absence” survey), be sure to select “None Detected” from the associated list.

Basic Survey Fields

Do not use special symbols in text boxes. Only letters, numbers, and characters found on common keyboards are accepted.

* Type
For descriptions of all survey types, click here

Terrestrial Simple – If you need to select a different survey type you will need to restart the record.
Press Ctrl + F5

?

* Lead Contact

Weitzel, Aspen

?

Project Name

?

Site

?

* Goal

c) Pre-treatment survey

?

* Start Date

2018-04-03

?

* End Date

2018-04-06

?

* Target Species

Rosa multiflora × Elaeagnus umbellata ×

?

Detected Species

Rosa multiflora × Elaeagnus umbellata ×

Mentha x gracilis

Mentha x piperita

Mentha x rotundifolia

Mentha x villosa

Microstegium vimineum

Miscanthus sacchariflorus

Miscanthus sinensis

?

An Observation record needs to be created for each Targeted Species Detected.

e for me.

Fields in white are optional – fill in those that apply to your survey event.

For any targeted species that were detected during the survey, enter those records as observations into iMap by clicking on the **Observation record** link. Then fill in the **Resulting Obs IDs** field with the appropriate observation ID#'s as shown in the iMapInvasives tables (e.g. PA-1830U). Separate each Obs. ID# with a comma or a semi-colon.

Or iMap can automatically generate one observation for each targeted species detected on your behalf.

An Observation record needs to be created for each Targeted Species Detected.

☐ Automatically generate one observation for each targeted species detected seen above for me.

☒ Do NOT automatically generate observations for me.

Please enter an Observation for any Targeted Species found. If you enter more than one observation, separate them by a comma or semi-colon

Click the following link to start the data entry process for a new [Observation record](#).

Resulting Obs IDs

ID Numbers (e.g. NY-123456U; NY-316017U or NY-123456U, NY-316017U)

<u>OBSID</u>	<u>Scientific Name</u>	<u>Observe Date</u>	<u>Observer</u>	<u>Assessment ID</u>	<u>Area (square meters)</u>
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General comments

The **Advanced Survey Fields** tab has six different additional categories of data to choose from for inclusion in your survey record (all are optional; not required). Choose categories that fit your survey data by clicking on the down arrow next to each category title and filling in the information fields accordingly.

Advanced Survey Fields
(Click arrow to expand)

▼ Who

▲ What

Target Species

Detected Species

Survey Goal

Survey Goal Comments

Protection Goal

Infestation Management Records

▼ When

▼ Where

▼ Weather

▼ Photos and Sketchmaps

▼ Advanced Survey Fields
(Click arrow to expand)

Survey Type: Terrestrial_simple Details

Focus Area of Survey	<div>c) Understory / Ground Vegetation ×</div>	?
Sampling Method	<div>a) Visual ×</div>	?
Sampling Method Comments		?
Equipment	<div>Select Some Options</div>	?
Equipment Comments		?
Landscape Type	<div>c) Forest ▼</div>	?
Overall Survey Comments		?

Remember to save your data often

Update Main Survey

Additional information fields are available at the bottom of the survey record (in this case, information in a Terrestrial Simple survey)
Some fields like “Focus Area of Survey”, “Sampling Method”, and “Equipment” allow you to select multiple options.
Submit/save your survey record by clicking **Update Main Survey**.

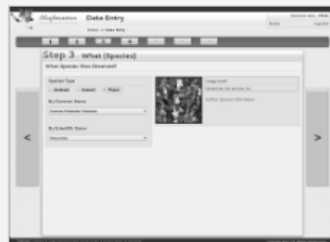
My iMapInvasives

Resources

Data Management

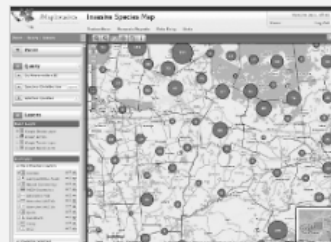
System Management

Enter Data



- Observation
- Survey
- Treatment
- Infestation Management

View the Map



- View the Map
- Not using a high-speed internet connection?

View Table



ObsID	Species Name	Location	Date	Status	Observer
1000001	Spotted Lanternfly	PA 01001	10/10/2014	Observed	ASPEN
1000002	Spotted Lanternfly	PA 01001	10/10/2014	Observed	ASPEN
1000003	Spotted Lanternfly	PA 01001	10/10/2014	Observed	ASPEN
1000004	Spotted Lanternfly	PA 01001	10/10/2014	Observed	ASPEN
1000005	Spotted Lanternfly	PA 01001	10/10/2014	Observed	ASPEN
1000006	Spotted Lanternfly	PA 01001	10/10/2014	Observed	ASPEN
1000007	Spotted Lanternfly	PA 01001	10/10/2014	Observed	ASPEN
1000008	Spotted Lanternfly	PA 01001	10/10/2014	Observed	ASPEN
1000009	Spotted Lanternfly	PA 01001	10/10/2014	Observed	ASPEN
1000010	Spotted Lanternfly	PA 01001	10/10/2014	Observed	ASPEN

- All Observations
- **Surveys**
- Treatments
- Infestation Management
- Assessments
- Animals Insects Plants
- IPMDAT Shared Results

Query and Reports



- **Custom Observation Query**
- All Data Summary Report
- All Species by County:
 - Table
- Infested Lakes:
 - Table
 - Report - All Lakes
 - Report - You Pick the Lake
- Active Projects:
 - All Projects
 - My Projects with Details

Once you have submitted your survey record, you can view it by clicking the **Surveys** link under the View Table box on the My iMapInvasives page. This will open a screen with a table of all survey records.


Click on a row in the table to view the survey record.

Survey Table											
Add New Survey						Custom Data Query					
<input type="text"/>				Search		0 - 25 of 161 results					
ID	Type	Goal	Lead Contact	Organization(s)	Site	Start Date	End Date	Target Species	Detected Species	Entry Date▼	Entry Person
PA-2282U-S	Terrestrial Simple	c) Pre-treatment survey	aspweitzel_3	not provided	not provided	2018-04-03	2018-04-06	Elaeagnus umbellata, Rosa multiflora	Elaeagnus umbellata, Microstegium vimineum, Rosa multiflora	2018-04-09 13:00:42	aspweitzel_3
PA-2281U-S	Aquatic Simple	b) Find new infestations	chenolan	not provided	Stillwater Lake 1	2017-08-20	2017-08-20	Trapa natans	** None Detected **	2017-09-07 14:35:13	chenolan
PA-2280U-S	Aquatic Simple	b) Find new infestations	johchopp	not provided	USACE Mahoning Creek Lake	2017-07-25	2017-07-28	Trapa natans	** None Detected **	2017-08-15 16:50:56	johchopp
PA-2279U-S	Aquatic Simple	b) Find new infestations	johchopp	U.S. Army Corps of Engineers	Youghiogheny River Lake	2017-07-11	2017-07-13	Trapa natans	** None Detected **	2017-08-15 15:39:19	johchopp
PA-2278U-S	Aquatic Simple	b) Find new infestations	jasbowers	not provided	Tionesta Lake	2017-07-28	2017-07-30	Trapa natans	** None Detected **	2017-08-15 14:51:25	jasbowers
PA-2277U-S	Aquatic Simple	b) Find new infestations	jasbowers	not provided	Tionesta Lake	2017-07-28	2017-07-30	Trapa natans	** None Detected **	2017-08-15 12:37:15	jasbowers
PA-2276U-S	Aquatic Simple	b) Find new infestations	ronkeeney	not provided	Mead Island and behind Mead Island on Allegheny River, Warren, PA	2015-07-24	2015-07-24	Trapa natans	Trapa natans	2017-08-11 14:21:12	ronkeeney
					back channel						

0 - 25 of 161 results

< >

You will then see the same screen as when you were entering the survey data before.

**iMapInvasives**
Survey information for strategic management

Pennsylvania User Tools
Data Management | Surveys | **Survey Information**

Welcome back, **Amy**
penpinvest, user level 11 2/13
[Home](#) [Log Out](#)

Survey Information ID: PA-2281U-SEnter obs ID, GPS coordinates, or address (include state/province initials)

baseLayer

- ☒ Google Hybrid
- ☐ Google Aerials
- ☐ Google Streets

iMap Layers

- ☒ Confirmed (zoom to: 1000)
- ☐ Unconfirmed (zoom to: 1000)
- ☐ Approximate (zoom to: 1000)
- ☐ Treatment
- ☐ Survey
- ☐ Assessment Plant
- ☐ Assessment Animal
- ☐ Assessment Insect

State-Specific Layers

- ☐ State Layers (Streams, Municipalities, Managed Lands, Major Waterbodies) (see main map Overlay Layers for legend)

Mouse Position:
(X:460265/Y:4618397)
Zoom to location before enabling map layers for faster map loading

Polygon Area 123573.4 - square meters / 30.54 Acres

**Basic Survey Fields**
Deactivate spatial analysis features. Only letters, numbers and characters found on common keyboards are accepted.<https://login.imapinvasives.org/paim/>

If several records are listed in the survey table, you can use the search bar at the top of the page to find the survey(s) you are looking for. For example, you could type in your last name in the search bar to find the surveys you have entered into *iMap*, or you could input a survey ID# (PA-2282U-S) to find a specific record. A **Custom Data Query** can also be performed by clicking on the button in the top right corner.

Survey Table

Add New Survey

Custom Data Query

Search

Showing:

weitzel

Clear

0 - 1 of 1 results

ID	Type	Goal	Lead Contact	Organization(s)	Site	Start Date	End Date	Target Species	Detected Species	Entry Date▼	Entry Person
PA-2282U-S	Terrestrial Simple	c) Pre-treatment survey	aspweitzel_3	not provided	not provided	2018-04-03	2018-04-06	Elaeagnus umbellata, Rosa multiflora	Elaeagnus umbellata, Microstegium vimineum, Rosa multiflora	2018-04-09 13:00:42	aspweitzel_3

When choosing the **Custom Data Query** button from the Survey Table, the Survey-Custom Query tool appears which allows you to choose from several different search criteria to look up the survey(s) you are interested in. Enter information in as many or as few category fields as relevant. Then choose either **View Table** or **View on Map** at the bottom of the page to display your query results.

Survey - Custom Query

Survey Information

Submitter: All Users

Lead Contact: All Users

Organization: All Organizations

Target Species: All Species

Query Type:

- All Surveys ("Target Species" was searched for)
- Absence ("Target Species" was searched for but not detected - Must select a Target Species above)

Detected Species: All Species

Survey Goals:

Follow up Needed?:

Survey Type:

Project: All projects

Data Status: All Statuses

Survey Site Name:

Find Surveys that Begin on or after this Date:

Find Surveys that End on or before this Date:

Observation / Assessment

ObsID:

Infestation Management Record ID:

View Table

View On Map

For example, you could search for terrestrial simple surveys that are pre-treatment for *Rosa multiflora*.
This helps narrow down your search to what you are specifically looking for.

Survey - Custom Query

Survey Information

Submitter: All Users

Lead Contact: All Users

Organization: All Organizations

Target Species: All Species

Query Type:
☒ All Surveys ("Target Species" was searched for)
☐ Absence ("Target Species" was searched for but not detected - Must select a Target Species above)

Detected Species: Rosa multiflora

Survey Goals: c) Pre-treatment survey

Follow up Needed?: -----

Survey Type: Terrestrial Simple

Project: All projects

Data Status: Aquatic Simple
Aquatic Systematic
Cerceris Wasp
Host tree
Linear
Terrestrial Simple
Terrestrial Systematic

Survey Site Number:

Find Surveys that Begin on or after this Date:

Find Surveys that End on or before this Date:

Observation / Assessment

ObsID:

Infestation Management Record ID:

View Table

View On Map

Here is the query result on the table:

Survey Table

Add New Survey

Custom Data Query

Active Custom Query

Presence or Absence? = Presence

Survey Type = Terrestrial Simple

Survey Goal = c) Pre-treatment survey

Target Species Detected = Rosa multiflora

Clear Query

Search

0 - 4 of 4 results

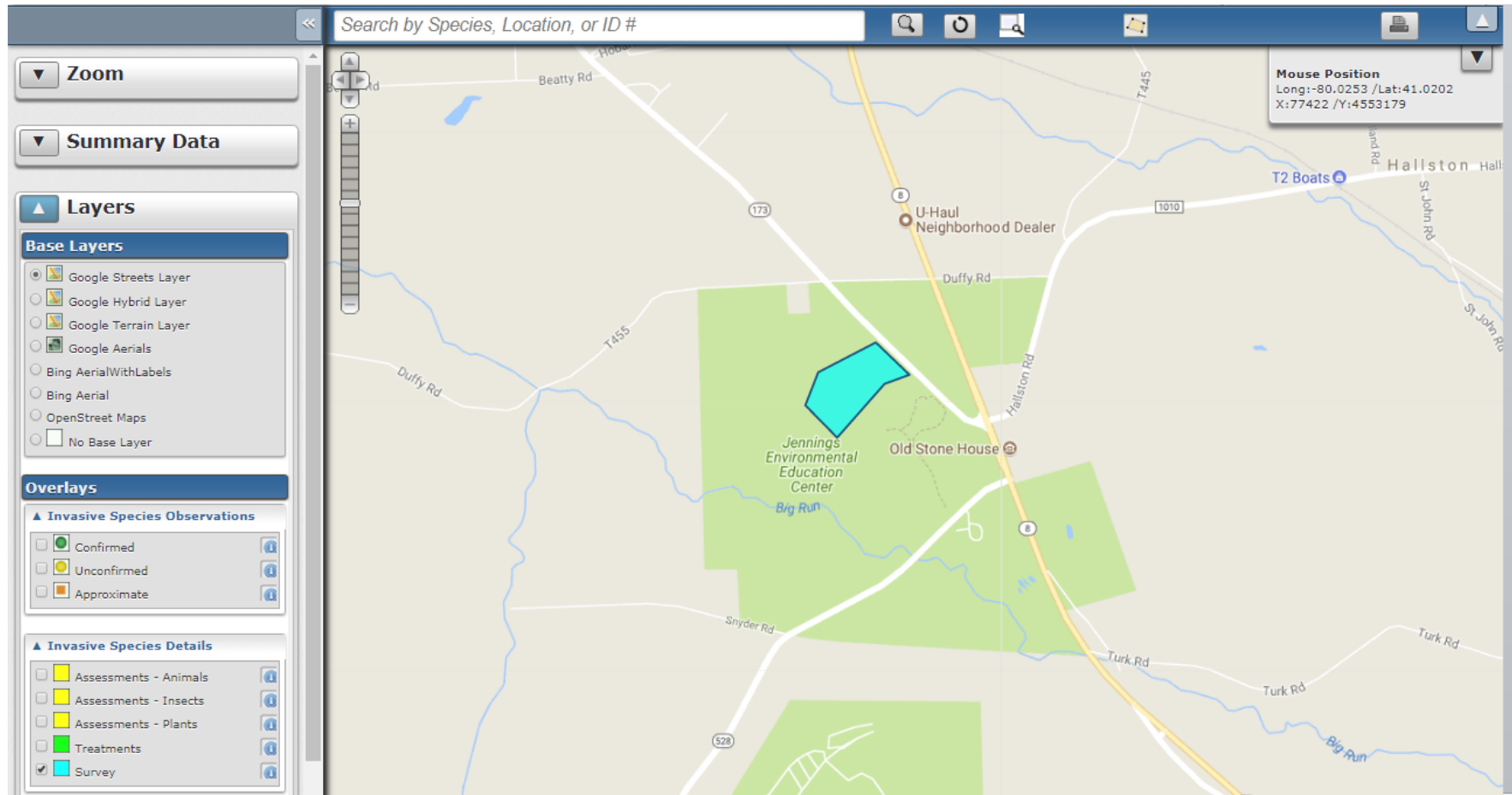
ID	Type	Goal	Lead Contact	Organization(s)	Site	Start Date	End Date	Target Species	Detected Species	Entry Date▼	Entry Person
PA-2282U-S	Terrestrial Simple	c) Pre-treatment survey	aspweitzel_3	not provided	not provided	2018-04-03	2018-04-06	Elaeagnus umbellata, Rosa multiflora	Elaeagnus umbellata, Microstegium vimineum, Rosa multiflora	2018-04-09 13:00:42	aspweitzel_3
PA-2111U-S	Terrestrial Simple	c) Pre-treatment survey	jorkmetz	Wildlands Conservancy	Urban Forest	2014-06-22	2014-08-22	Elaeagnus umbellata, Rosa multiflora, Viburnum sieboldii	Elaeagnus umbellata, Rosa multiflora, Viburnum sieboldii	2014-06-22 17:05:06	carmartin
PA-2110U-S	Terrestrial Simple	c) Pre-treatment survey	jorkmetz	Wildlands Conservancy	Intermediate Trails	2014-06-13	2014-08-22	Rosa multiflora, Viburnum sieboldii	Rosa multiflora, Viburnum sieboldii	2014-06-13 13:18:35	carmartin
PA-2104U-S	Terrestrial Simple	c) Pre-treatment survey	jorkmetz	Wildlands Conservancy	Floodplain	2012-06-05	2014-08-22	Ligustrum obtusifolium, Polygonum cuspidatum; Fallopia japonica var. japonica, Rosa multiflora, Viburnum sieboldii	Ligustrum obtusifolium, Polygonum cuspidatum; Fallopia japonica var. japonica, Rosa multiflora, Viburnum sieboldii	2014-06-12 11:24:02	carmartin

0 - 4 of 4 results

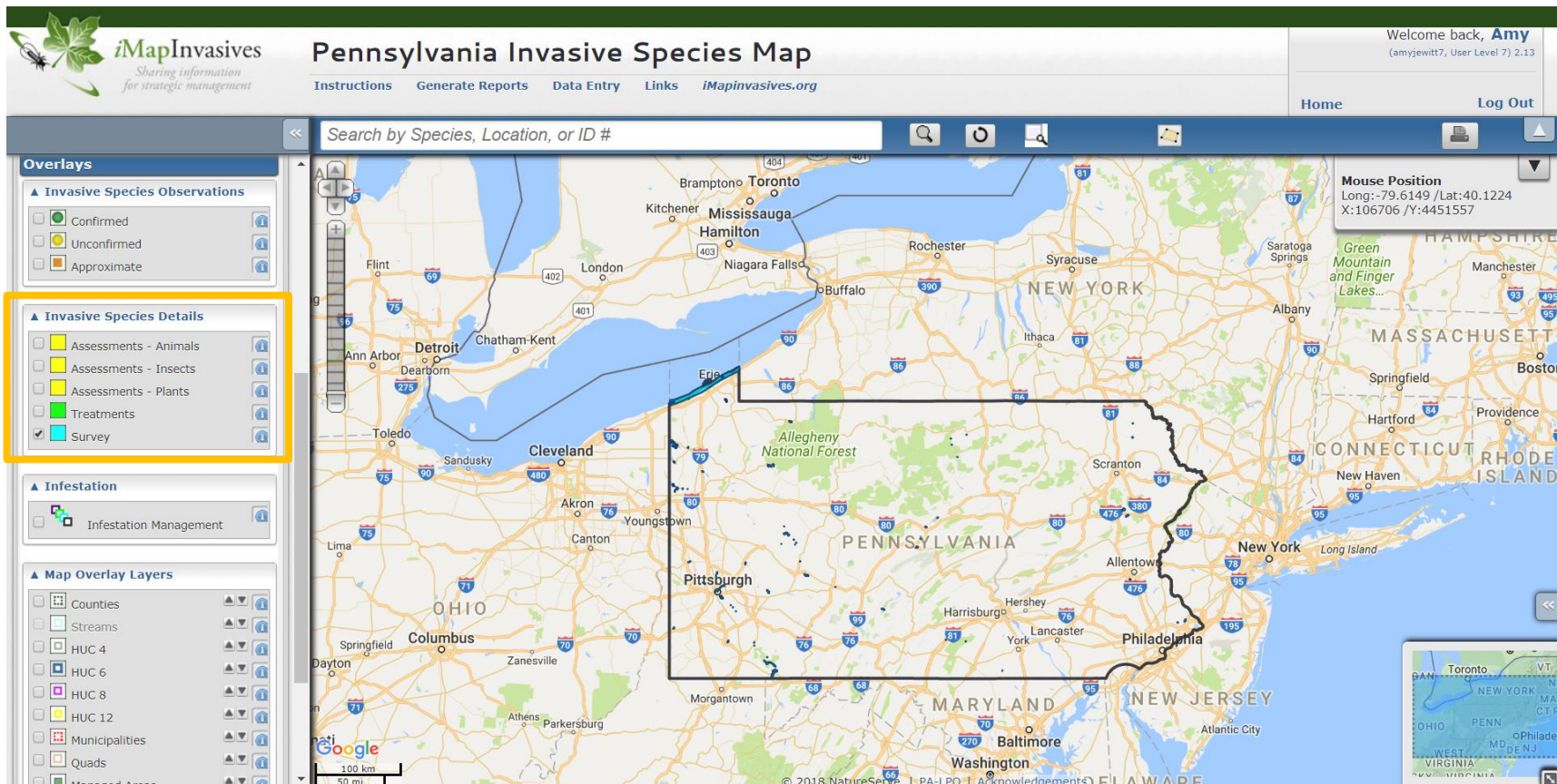
<

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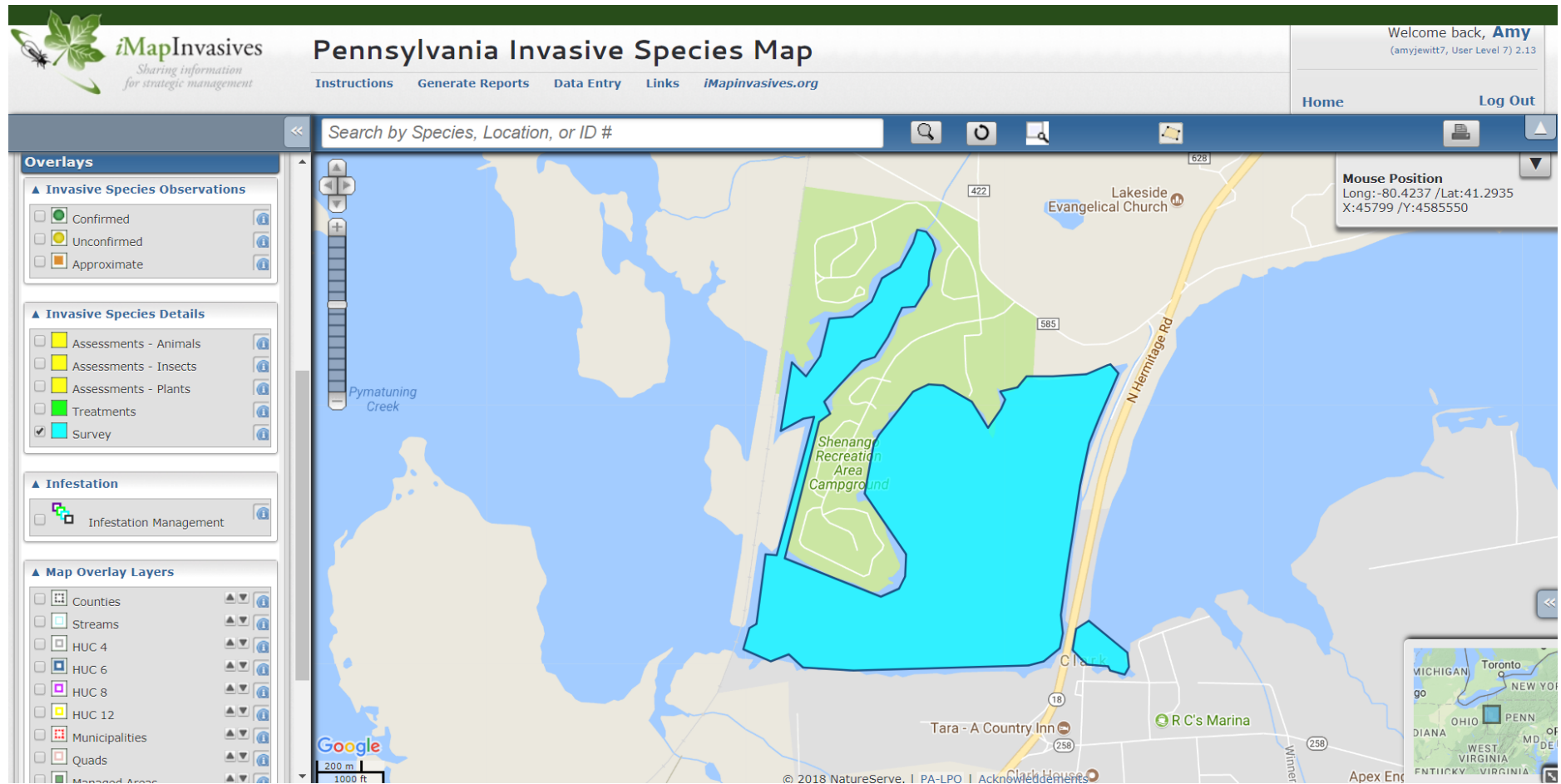
Here is the query result on the map:



You can also view your survey record directly from the map. On the 'My iMapInvasives' page, click on 'View the Map'. In the legend on the left side, look for the 'Invasive Species Details' section. There, click the check box next to 'Survey'. Watch as the map populates with many small survey polygons.



Zoom into your area of interest (where you know your survey to be located) using the zoom ladder on the left side of the page OR zoom by pressing your keyboard's shift key and simultaneously drawing a box around your area of interest.



Click on the survey polygon you are interested in to bring up details about it.
Click on the ID# button in the 'Management Record Results' box to call up the survey record and view all its associated information.

Management Record Results
Radius = 60 meters Observation Visible= false

Survey (1)

ID	Type	Lead Contact	Begin Date	Organization	Species Detected
PA-2216U-S	Aquatic Simple	Cote, Jason	2017-07-01		** None Detected **

Mouse Position
Long: -80.4346 /Lat: 41.2923
X:44878 /Y:4585474

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The End